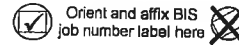




TR2: Technical Report
Concrete Sampling and Testing
Must be typewritten.



Sheet number 1

Jamaica Crossing Mid Rise - Super Structure

1 Location Information Required for all applications.					Mix Design: 7000psi
House No(s) 148-10	Street Name Archer Avenue				
Borough Queens	Block 9998	Lot 95	BIN 4607281	CB No. 412	
Work on Floor(s) Cellar to 3rd Floor			Apt/Condo No(s) N/A		

2 Licensed Concrete Testing Lab Information Required for all applications.					
Director Last Name Hallahan		Director First Name Richard		Director Middle Initial	
Business Name HAKS		Business Telephone (914) 945-9010			
Business Address 47 Hudson Street		Business Fax (914) 945-9011			
City Ossining	State NY	Zip 10562	Mobile Telephone		
E-Mail RHallahan@haks.net					
Director's Lic. Number 58487		☒ P.E. ☐ R.A.		Concrete Testing Lab Lic. Number 66	

3 Licensed Concrete Testing Laboratory's Identification of Responsibilities Required prior to Permit.

Check all that apply below:

I certify that I am the director of the licensed concrete testing laboratory accepting responsibility for conducting the testing in accordance with BC 1905.6 and BC 1704.1. I further certify that I have read the applicable sections of the New York City Construction Codes in connection with the testing of concrete and licensed concrete testing laboratories as well as 1 RCNY §5-02 and 1 RCNY §101-07(c)(6), which specifies the qualifications and duties required of a licensed concrete testing laboratory and that this licensed testing laboratory meets those qualifications for the work for which I take responsibility. I agree that both I and the licensed concrete testing laboratory will comply with all provisions of the New York City Construction Codes as well as 1 RCNY §5-02 and 1 RCNY §101-07(c)(6). I am aware of the additional sanctions imposed on false filings by §28-211.1.2 of the Administrative Code.

Change of Applicant: I am a newly designated individual responsible for the testing specified herein and I hereby state that:

- ☐ None of the tests indicated herein have been performed to date by the previously designated individual.
- ☐ Some of the tests indicated herein have been performed by the previously designated individual, as indicated in the attached report.

I am aware of the additional sanctions imposed on false filings by §28-211.1.2 of the Administrative Code.

Name (please print)

Signature

Date

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

TR2

Sheet number 2

4 Design Applicant's Statement and Signature *P.E./R.A. Required prior to Permit.*

- ☐ I certify that the licensed concrete testing laboratory specified in section 2 above and engaged by the owner to perform tests on the work at the location specified in section 1 above is acceptable. (BC 1704.1)

Name (please print)

Signature

Date

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

5 Building Owner's Statement and Signature *Required prior to Permit.*

I certify that I have employed the licensed concrete testing laboratory specified in section 2 above in accordance with BC 1704.1. 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 made a false statement or to have knowingly or negligently falsified or allowed to be falsified any certificate, form, signed statement, application, report or certification of the correction of a 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

STOP HERE PRIOR TO PERMIT

PSI 7000

[illegible]

Licensed Concrete Lab Director (please print)
Richard Hallahan, P.E.
Signature

Signature _____

Date
06-20-19

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

TR2

Sheet number 4 of 4 sheets

7 Licensed Concrete Testing Laboratory's Certification of Completion *Required prior to Sign-off.*

☒ I certify that I have completed the testing specified herein and that the results reported in section 6 of this form are true and accurate in accordance with §28-406.3.2.

I am aware of the additional sanctions imposed on false filings by §28-211.1.2 of the Administrative Code.

☐ **Withdrawal of Applicant:** I am withdrawing responsibility for conducting the tests indicated herein and herewith submit the results or status of the work performed to date.

Name (please print)

Richard Hallahan, P.E.

Signature

Date

06-20-19

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

8 Design Applicant's Statements and Signatures *Required prior to Sign-off. P.E./R.A. responsible for plans, choose one and sign/seal.*

☒ I certify I have reviewed the test results reported by the licensed concrete testing lab in section 6 above and found them to be in compliance with the approved construction documents.

☐ I certify I have reviewed the test results reported by the licensed concrete testing lab in section 6 above and found them to be in compliance with the approved construction documents except as noted in the attached report (BC 1905.6.3.3)

Note: design applicant's signed and sealed report must be attached to this document

Name (please print)

Signature

Date

1-13-2020

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

9 Concrete Producer's Statement and Signature *Required prior to Sign-off. Must be filled out by Owner of Production Facility.*

I certify that the test results reported in section 6 above were reported to me, and I further certify that the concrete delivered is in accordance with the design mix(es) specified on the TR3 submitted for the work specified in section 1 above.

Name (print)

Title

Signature

Date

NRMCA Expiration Date (BC 1905.8.2)

Business Name

Business Telephone

Business Address

Business Fax

City

State

Zip

**CONCRETE TESTING LAB**

NYC LICENSE NO: 066

HAKS Material Testing Group

47 Hudson Street

Ossining NY

T: 914 -945-9010 F: 914 -945-9012

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SI-MT-C

Rev. 09/2013

REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	522
Client:	BRP	Cast By:	Oluwafemi Obagbemiro / Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01136709 / 013398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	65
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/09/18
Mix Class:	7,000 psi	Date Received:	08/10/18
Slump: (In)	8.0"(ASTM C143)	Concrete Temp. (°F):	81°F (ASTM C1064)
Air Content:	4.6%(ASTM C173)	Volume (YD³):	390.0yd³
Density (lbs/ft³):	147.3 (ASTM C138)	Weather:	83°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133848	4.00	12.57	08/10/18	1	97790	7780	3
121109	4.00	12.57	08/10/18	1	43660	3470	3
133736	4.00	12.57	08/10/18	1	41310	3290	
133737	4.00	12.57	08/16/18	7	94320	7500	2
133738	4.00	12.57	09/06/18	28	118780	9450	3
133739	4.00	12.57	09/06/18	28	123670	9840	3
133740	4.00	12.57	09/06/18	28	111850	8900	2
133741	4.00	12.57	10/04/18	56	1254605	99810	2
133742	4.00	12.57	08/10/18	1	39720	3160	3

Location: First floor slab and supporting columns 107, 102, 109, 110, 111 and SW-3.**Note(s):**

Master Tag # 016650

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 09/06/18



**CONCRETE TESTING LAB**

NYC LICENSE NO: 066

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	523
Client:	BRP	Cast By:	Oluwafemi Obagbemiro / Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01136709 / 013398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	60
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/09/18
Mix Class:	7,000 psi	Date Received:	08/10/18
Slump: (In)	8.5"(ASTM C143)	Concrete Temp. (°F):	80°F (ASTM C1064)
Air Content:	4.8%(ASTM C173)	Volume (YD³):	390.0yd³
Density (lbs/ft³):	147.2 (ASTM C138)	Weather:	83°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133331	4.00	12.57	08/10/18	1	27730	2210	3
133332	4.00	12.57	08/10/18	1	36740	2920	3
133715	4.00	12.57	08/10/18	1	37410	2980	3
133716	4.00	12.57	08/16/18	7	88550	7040	3
133717	4.00	12.57	09/06/18	28	110750	8810	3
133718	4.00	12.57	09/06/18	28	97090	7720	2
133719	4.00	12.57	09/06/18	28	106430	8470	2
133720	4.00	12.57	10/04/18	56	123550	9830	2
133721	4.00	12.57	08/10/18	1	37880	3010	2

Location: First floor slab and supporting columns 107, 102, 109, 110, 111 and SW-3.**Note(s):**

Master Tag # 016819

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/04/18





CONCRETE TESTING LAB
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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	524
Client:	BRP	Cast By:	Oluwafemi Obagbemiro / Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01136709 / 013398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	47
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/09/18
Mix Class:	7,000 psi	Date Received:	08/10/18
Slump: (In)	8.75"(ASTM C143)	Concrete Temp. (°F):	82°F (ASTM C1064)
Air Content:	4.5%(ASTM C173)	Volume (YD³):	390.0yd³
Density (lbs/ft³):	147.6 (ASTM C138)	Weather:	83°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133333	4.00	12.57	08/10/18	1	36590	2910	3
133334	4.00	12.57	08/10/18	1	31290	2490	3
133701	4.00	12.57	08/10/18	1	34390	2740	3
133702	4.00	12.57	08/16/18	7	91070	7250	2
133703	4.00	12.57	09/06/18	28	103920	8270	3
133704	4.00	12.57	09/06/18	28	105860	8420	2
133705	4.00	12.57	09/06/18	28	114150	9080	3
133706	4.00	12.57	10/04/18	56	111745	8890	3
133707	4.00	12.57	08/10/18	1	35850	2850	3

Location: First floor slab and supporting columns 107, 102, 109, 110, 111 and SW-3.

Note(s):

Master Tag # 016818

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/04/18





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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #: 66 **Report #:** 525

Client: BRP **Cast By:** Oluwafemi Obagbemiro / Ifeoma Bellinger

Project Name: Jamaica Crossing - Mid Rise **Inspectors ACI #:** 01136709 / 013398865

Project Address: 148-10 Archer Avenue, Queens, NY **Truck #:** 60

HAKS Project #: NL 2015-11-340A02 **Date Cast:** 08/09/18

Mix Class: 7,000 psi **Date Received:** 08/10/18

Slump: (In) 8.5"(ASTM C143) **Concrete Temp. (°F):** 81°F (ASTM C1064)

Air Content: 5.5%(ASTM C173) **Volume (YD³):** 390.0yd³

Density (lbs/ft³): 146.8 (ASTM C138) **Weather:** 83°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133335	4.00	12.57	08/10/18	1	44440	3540	3
133336	4.00	12.57	08/10/18	1	45270	3600	2
133548	4.00	12.57	08/10/18	1	40990	3260	3
133549	4.00	12.57	08/16/18	7	98420	7830	2
133550	4.00	12.57	09/06/18	28	102980	8190	3
133551	4.00	12.57	09/06/18	28	119000	9470	3
133552	4.00	12.57	09/06/18	28	115060	9150	2
133553	4.00	12.57	10/04/18	56	127705	10160	3
133554	4.00	12.57	08/10/18	1	41820	3330	

Location: First floor slab and supporting columns 107, 102, 109, 110, 111 and SW-3.

Note(s):

Master Tag # 016651

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/04/18





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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	526
Client:	BRP	Cast By:	Oluwafemi Obagbemiro / Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01136709 / 013398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	45
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/09/18
Mix Class:	7,000 psi	Date Received:	08/10/18
Slump: (In)	8.5"(ASTM C143)	Concrete Temp. (°F):	84°F (ASTM C1064)
Air Content:	4.5%(ASTM C173)	Volume (YD³):	390.0yd³
Density (lbs/ft³):	149.8 (ASTM C138)	Weather:	83°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133343	4.00	12.57	08/10/18	1	60410	4810	3
133344	4.00	12.57	08/10/18	1	64570	5140	2
133555	4.00	12.57	08/10/18	1	59520	4740	3
133356	4.00	12.57	08/16/18	7	110710	8810	3
133157	4.00	12.57	09/06/18	28	117950	9380	2
132958	4.00	12.57	09/06/18	28	119430	9500	2
132759	4.00	12.57	09/06/18	28	128460	10220	3
132560	4.00	12.57	10/04/18	56	144170	11470	3
132361	4.00	12.57	08/10/18	1	60000	4770	2

Location: First floor slab and supporting columns 107, 102, 109, 110, 111 and SW-3.

Note(s): Master Tag # 016655

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/04/18



Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan, P.E.

**CONCRETE TESTING LAB****NYC LICENSE NO: 066****HAKS Material Testing Group**

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	527
Client:	BRP	Cast By:	Oluwafemi Obagbemiro / Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01136709 / 013398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	46
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/09/18
Mix Class:	7,000 psi	Date Received:	08/10/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	81°F (ASTM C1064)
Air Content:	5.1%(ASTM C173)	Volume (YD³):	390.0yd³
Density (lbs/ft³):	146.3(ASTM C138)	Weather:	83°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133339	4.00	12.57	08/10/18	1	32600	2590	2
133340	4.00	12.57	08/10/18	1	35370	2810	3
133708	4.00	12.57	08/10/18	1	35820	2850	
133709	4.00	12.57	08/16/18	7	80120	6370	3
133710	4.00	12.57	09/06/18	28	109350	8700	3
133711	4.00	12.57	09/06/18	28	111370	8860	3
133712	4.00	12.57	09/06/18	28	102690	8170	3
133713	4.00	12.57	10/04/18	56	119080	9470	3
133714	4.00	12.57	08/10/18	1	45740	3640	2

Location: First floor slab and supporting columns 107, 102, 109, 110, 111 and SW-3.**Note(s):**

Master Tag # 016653

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/04/18





CONCRETE TESTING LAB
NYC LICENSE NO: 066
HAKS Material Testing Group
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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	528
Client:	BRP	Cast By:	Oluwafemi Obagbemiro / Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01136709 / 013398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	45
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/09/18
Mix Class:	7,000 psi	Date Received:	08/10/18
Slump: (In)	8.75"(ASTM C143)	Concrete Temp. (°F):	82°F (ASTM C1064)
Air Content:	5.8%(ASTM C173)	Volume (YD³):	390.0yd³
Density (lbs/ft³):	145.8(ASTM C138)	Weather:	83°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133341	4.00	12.57	08/10/18	1	50620	4030	2
133342	4.00	12.57	08/10/18	1	43770	3480	2
133722	4.00	12.57	08/10/18	1	42130	3350	3
133723	4.00	12.57	08/16/18	7	88510	7040	2
133724	4.00	12.57	09/06/18	28	100580	8000	3
133725	4.00	12.57	09/06/18	28	102330	8140	2
133726	4.00	12.57	09/06/18	28	105650	8400	2
133727	4.00	12.57	10/04/18	56	111490	8870	2
133728	4.00	12.57	08/10/18	1	42760	3400	2

Location: First floor slab and supporting columns 107, 102, 109, 110, 111 and SW-3.

Note(s): Master Tag # 016654

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/04/18





CONCRETE TESTING LAB
NYC LICENSE NO: 066

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Page 1 of 1

SI-MT-C

Rev. 09/2013

REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	529
Client:	BRP	Cast By:	Oluwafemi Obagbemiro / Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01136709 / 013398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	47
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/09/18
Mix Class:	7,000 psi	Date Received:	08/10/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	84°F (ASTM C1064)
Air Content:	5.3%(ASTM C173)	Volume (YD³):	390.0yd³
Density (lbs/ft³):	146.8(ASTM C138)	Weather:	83°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133337	4.00	12.57	08/10/18	1	47600	3790	3
133338	4.00	12.57	08/10/18	1	38700	3080	2
133729	4.00	12.57	08/10/18	1	46570	3700	2
133730	4.00	12.57	08/16/18	7	89490	7120	2
133731	4.00	12.57	09/06/18	28	102170	8130	3
133732	4.00	12.57	09/06/18	28	109820	8740	3
133733	4.00	12.57	09/06/18	28	108260	8610	3
133734	4.00	12.57	10/04/18	56	113790	9050	3
133735	4.00	12.57	08/10/18	1	48790	3880	2

Location: First floor slab and supporting columns 107, 102, 109, 110, 111 and SW-3.

Note(s):

Master Tag # 016652

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/04/18

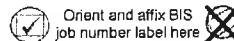


The results shown in this report relate only to the items tested and may not be reproduced without prior written approval of
HAKS



TR2: Technical Report
Concrete Sampling and Testing

Must be typewritten.



Sheet number 1

Jamaica Crossing Mid Rise - Foundation

1 Location Information Required for all applications.		Mix Design: 6500psi	
House No(s) 148-10	Street Name Archer Avenue		
Borough Queens	Block 9998	Lot 95	BIN 4607281 CB No. 412
Work on Floor(s) Cellar - 3rd Floor		Apt/Condo No(s) N/A	

2 Licensed Concrete Testing Lab Information Required for all applications			
Director Last Name Hallahan		Director First Name Richard	
Business Name HAKS		Director Middle Initial	
Business Address 47 Hudson Street		Business Telephone (914) 945-9010	
City Ossining		State NY	Zip 10562
E-Mail RHallahan@haks.net		Business Fax (914) 945-9011	
Director's Lic. Number 58487		☒ P.E. ☐ R.A.	Concrete Testing Lab Lic. Number 66

3 Licensed Concrete Testing Laboratory's Identification of Responsibilities Required prior to Permit

Check all that apply below:

I certify that I am the director of the licensed concrete testing laboratory accepting responsibility for conducting the testing in accordance with BC 1905.6 and BC 1704.1. I further certify that I have read the applicable sections of the New York City Construction Codes in connection with the testing of concrete and licensed concrete testing laboratories as well as 1 RCNY §5-02 and 1 RCNY §101-07(c)(6), which specifies the qualifications and duties required of a licensed concrete testing laboratory and that this licensed testing laboratory meets those qualifications for the work for which I take responsibility. I agree that both I and the licensed concrete testing laboratory will comply with all provisions of the New York City Construction Codes as well as 1 RCNY §5-02 and 1 RCNY §101-07(c)(6). I am aware of the additional sanctions imposed on false filings by §28-211.1.2 of the Administrative Code.

Change of Applicant: I am a newly designated individual responsible for the testing specified herein and I hereby state that:

- ☐ None of the tests indicated herein have been performed to date by the previously designated individual.
- ☐ Some of the tests indicated herein have been performed by the previously designated individual, as indicated in the attached report.

I am aware of the additional sanctions imposed on false filings by §28-211.1.2 of the Administrative Code.

Name (please print)

Signature

Date

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

TR2

Sheet number 2

4 Design Applicant's Statement and Signature *P.E./R.A. Required prior to Permit.*

☐ I certify that the licensed concrete testing laboratory specified in section 2 above and engaged by the owner to perform tests on the work at the location specified in section 1 above is acceptable. (BC 1704.1)

Name (please print)

Signature

Date

P.E. / R.A. Seal *(apply seal, then sign and date over seal)***5 Building Owner's Statement and Signature** *Required prior to Permit*

I certify that I have employed the licensed concrete testing laboratory specified in section 2 above in accordance with BC 1704.1. 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 made a false statement or to have knowingly or negligently falsified or allowed to be falsified any certificate, form, signed statement, application, report or certification of the correction of a 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

STOP HERE PRIOR TO PERMIT

TR2

Sheet number 3 of 10 sheets

6 Test Report Required prior to Sign-off. Use supplemental pages as needed. Attach Original Lab Test ReportsSpecified Concrete Str (f_c)

PSI 6500

Specified Test Age (days): 28

			Field Testing Results:						
Test Report Number	Date of Placement	Cylinder I.D.	Slump	Air Content	Temperature	Weight	Placement Location	Total Placement	Breaking Strength
167	02/27/2018	128638	7.5 in	4.8 %	77° °F	147.2 lbs/ft ³	S.mat slab	26.0 yd ³	9300 PSI
167	02/27/2018	128639	7.5	4.8	77°	147.2	S.mat slab	26.0	9590
167	02/27/2018	128640	7.5	4.8	77°	147.2	S.mat slab	26.0	9650
190	03/09/2018	126087	7.0	4.7	70°	147.6	bment slab	12.0	11620
190	03/09/2018	126088	7.0	4.7	70°	147.6	bment slab	12.0	11440
190	03/09/2018	126089	7.0	4.7	70°	147.6	bment slab	12.0	11680
191	03/12/2018	126122	8.0	5.4	68°	146.8	bment slab	17.0	10850
191	03/12/2018	126123	8.0	5.4	68°	146.8	bment slab	17.0	11090
191	03/12/2018	126124	8.0	5.4	68°	146.8	bment slab	17.0	11340
194	03/19/2018	124478	21.0	5.5	64°	147.2	Zone 1	418	9140
194	03/19/2018	124479	21.0	5.5	64°	147.2	Zone 1	418	9110
194	03/19/2018	124480	21.0	5.5	64°	147.2	Zone 1	418	9320
195	03/19/2018	124485	19.5	5.2	64°	146.8	Zone 1	418	11570
195	03/19/2018	124486	19.5	5.2	64°	146.8	Zone 1	418	12190
195	03/19/2018	124487	19.5	5.2	64°	146.8	Zone 1	418	11030
196	03/19/2018	124492	20.0	5.2	64°	147.2	Zone 1	418	10380
196	03/19/2018	124493	20.0	5.2	64°	147.2	Zone 1	418	12360
196	03/19/2018	124494	20.0	5.2	64°	147.2	Zone 1	418	N/A
197	03/19/2018	124317	19.5	5.4	62°	146.8	Mid Rise	418	11050
197	03/19/2018	124318	19.5	5.4	62°	146.8	Mid Rise	418	11090
197	03/19/2018	124319	19.5	5.4	62°	146.8	Mid Rise	418	11350
198	03/19/2018	124471	21.0	5.6	64°	146.8	bment mat	418	10030
198	03/19/2018	124472	21.0	5.6	64°	146.8	bment mat	418	9970
198	03/19/2018	124473	21.0	5.6	64°	146.8	bment mat	418	8060
199	03/19/2018	124303	19.0	5.2	64°	146.4	bment mat	418	10670
199	03/19/2018	124304	19.0	5.2	64°	146.4	bment mat	418	10060
199	03/19/2018	124305	19.0	5.2	64°	146.4	bment mat	418	10580
200	03/19/2018	124453	18.5	5.0	62°	147.6	bment mat	418	11250
200	03/19/2018	124454	18.5	5.0	62°	147.6	bment mat	418	10480
200	03/19/2018	124455	18.5	5.0	62°	147.6	bment mat	418	10800

Licensed Concrete Lab Director Name (please print)

Richard Halahab, P.E.

Signature

Date

08-16-19

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

TR2

Sheet number 4 of 10 sheets

6 Test Report Required prior to Sign-off. Use supplemental pages as needed. Attach Original Lab Test ReportsSpecified Concrete Str. (f'_c):

PSI 6500

Specified Test Age (days): 28

			Field Testing Results:							
Test Report Number	Date of Placement	Cylinder I.D.	Slump	Air Content	Temperature	Weight	Placement Location	Total Placement	Breaking Strength	
201	03/19/2018	124400	7.0 in	4.6 %	70° °F	147.2 lbs/ft ³	bsmnt mat	418 yd ³	10360 PSI	
201	03/19/2018	124458	7.0	4.6	70°	147.2	bsmnt mat	418	11210	
201	03/19/2018	124459	7.0	4.6	70°	147.2	bsmnt mat	418	11770	
202	03/19/2018	124464	20.5	4.9	66°	147.6	bsmnt mat	418	11550	
202	03/19/2018	124465	20.5	4.9	66°	147.6	bsmnt mat	418	11580	
202	03/19/2018	124466	20.5	4.9	66°	147.6	bsmnt mat	418	11210	
203	03/19/2018	124310	19.0	5.1	62°	146.0	bsmnt mat	418	10740	
203	03/19/2018	124311	19.0	5.1	62°	146.0	bsmnt mat	418	9960	
203	03/19/2018	124312	19.0	5.1	62°	146.0	bsmnt mat	418	10260	
215	03/26/2018	126143	7.5	5.3	69°	146.4	bsmnt wll 1	34	10670	
215	03/26/2018	126144	7.5	5.3	69°	146.4	bsmnt wll 1	34	10320	
215	03/26/2018	126145	7.5	5.3	69°	146.4	bsmnt wll 1	34	10360	
233	04/03/2018	126553	15.5	6.6	70°	144.8	mudslab	605.0	12020	
233	04/03/2018	126554	15.5	6.6	70°	144.8	mudslab	605.0	11960	
233	04/03/2018	126555	15.5	6.6	70°	144.8	mudslab	605.0	11130	
234	04/03/2018	126560	17.0	6.2	68°	144.4	footing 123	605.0	10960	
234	04/03/2018	126561	17.0	6.2	68°	144.4	footing 123	605.0	11190	
234	04/03/2018	126562	17.0	6.2	68°	144.4	footing 123	605.0	11840	
235	04/03/2018	126567	16.5	6.6	68°	144.4	footing 123	605.0	11720	
235	04/03/2018	126568	16.5	6.6	68°	144.4	footing 123	605.0	11460	
235	04/03/2018	126569	16.5	6.6	68°	144.4	footing 123	605.0	11150	
236	04/03/2018	126574	15.5	6.8	64°	144.0	footing 123	605.0	10790	
236	04/03/2018	126575	15.5	6.8	64°	144.0	footing 123	605.0	11170	
236	04/03/2018	126576	15.5	6.8	64°	144.0	footing 123	605.0	10630	
237	04/03/2018	126582	16.0	6.6	64°	144.8	footing 123	605.0	11660	
237	04/03/2018	126583	16.0	6.6	64°	144.8	footing 123	605.0	10820	
237	04/03/2018	126584	16.0	6.6	64°	144.8	footing 123	605.0	11000	
238	04/03/2018	126589	18.0	6.4	64°	144.0	mat fundat	605.0	11020	
238	04/03/2018	126590	18.0	6.4	64°	144.0	mat fundat	605.0	10730	
238	04/03/2018	126591	18.0	6.4	64°	144.0	mat fundat	605.0	10360	

Licensed Concrete Lab Director Name (Please print)

Richard Halahan, P.E.

Signature

Date

08-16-19

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

TR2

Sheet number 5 of 10 sheets

6 Test Report Required prior to Sign-off. Use supplemental pages as needed. Attach Original Lab Test ReportsSpecified Concrete Str. (f_c):

PSI 6500

Specified Test Age (days): 28

			Field Testing Results:						
Test Report Number	Date of Placement	Cylinder I.D	Slump	Air Content	Temperature	Weight	Placement Location	Total Placement	Breaking Strength
239	04/03/2018	126596	17.5 in	6.6 %	64° °F	144.4 lbs/ft ³	MudSlab	605.0 yd ³	11350 PSI
239	04/03/2018	126597	17.5	6.6	64°	144.4	MudSlab	605.0	10040
239	04/03/2018	126598	17.5	6.6	64°	144.4	MudSlab	605.0	10580
240	04/03/2018	126603	17.0	7.0	62°	143.6	MudSlab	605.0	11300
240	04/03/2018	126604	17.0	7.0	62°	143.6	MudSlab	605.0	10590
240	04/03/2018	126605	17.0	7.0	62°	143.6	MudSlab	605.0	10810
241	04/03/2018	126610	17.0	6.8	62°	144.0	Mat Fundat	605.0	11160
241	04/03/2018	126611	17.0	6.8	62°	144.0	Mat Fundat	605.0	11320
241	04/03/2018	126612	17.0	6.8	62°	144.0	Mat Fundat	605.0	11190
242	04/03/2018	126617	15.0	6.2	62°	145.2	MudSlab	605.0	11960
242	04/03/2018	126618	15.0	6.2	62°	145.2	MudSlab	605.0	12270
242	04/03/2018	126619	15.0	6.2	62°	145.2	MudSlab	605.0	11900
243	04/03/2018	126624	15.0	6.2	62°	145.2	MudSlab	605.0	12050
243	04/03/2018	126625	15.0	6.2	62°	145.2	MudSlab	605.0	12660
243	04/03/2018	126626	15.0	6.2	62°	145.2	MudSlab	605.0	12250
244	04/03/2018	121076	15.0	5.8	62°	154.6	Mat Fundat	605.0	12570
244	04/03/2018	121077	15.0	5.8	62°	154.6	Mat Fundat	605.0	11790
244	04/03/2018	121078	15.0	5.8	62°	154.6	Mat Fundat	605.0	11470
245	04/03/2018	121154	17.5	6.2	60°	144.8	Mat Fundat	605.0	11220
245	04/03/2018	121155	17.5	6.2	60°	144.8	Mat Fundat	605.0	11360
245	04/03/2018	121156	17.5	6.2	60°	144.8	Mat Fundat	605.0	11710
246	04/04/2018	126631	8.0	5.8	68°	145.6	Footings123	33.0	10480
246	04/04/2018	126632	8.0	5.8	68°	145.6	Footings123	33.0	11190
246	04/04/2018	126633	8.0	5.8	68°	145.6	Footings123	33.0	11090
251	04/06/2018	121161	7.0	4.9	70°	147.6	Footings120	62.0	12180
251	04/06/2018	121162	7.0	4.9	70°	147.6	Footings120	62.0	12170
251	04/06/2018	121163	7.0	4.9	70°	147.6	Footings120	62.0	12550
252	04/06/2018	121168	8.0	5.2	68°	146.8	Footings124	62.0	7510
252	04/06/2018	121169	8.0	5.2	68°	146.8	Footings124	62.0	7530
252	04/06/2018	121170	8.0	5.2	68°	146.8	Footings124	62.0	7090

Licensed Concrete Lab Director (please print)

Richard Hallahan, P.E.

Signature

Date

08-16-19

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

TR2

Sheet number 6 of 10 sheets

6 Test Report Required prior to Sign-off. Use supplemental pages as needed Attach Original Lab Test ReportsSpecified Concrete Str. (f_c):

PSI 6500

Specified Test Age (days): 28

			Field Testing Results:						
Test Report Number	Date of Placement	Cylinder I.D.	Slump	Air Content	Temperature	Weight	Placement Location	Total Placement	Breaking Strength
267	04/10/2018	121191	7.0 in	6.4 %	71° °F	144.8 lbs/ft ³	Footings124	30.0 yd ³	11760 PSI
267	04/10/2018	121192	7.0	6.4	71°	144.8	Footings124	30.0	13100
267	04/10/2018	121193	7.0	6.4	71°	144.8	Footings124	30.0	12970
268	04/11/2018	128502	7.0	7.0	49°	143.6	Footings124	29.0	11730
268	04/11/2018	128503	7.0	7.0	49°	143.6	Footings124	29.0	11480
268	04/11/2018	128504	7.0	7.0	49°	143.6	Footings124	29.0	11670
271	04/13/2018	128537	8.5	6.6	68°	147.2	Footings126	61.0	11240
271	04/13/2018	128538	8.5	6.6	68°	147.2	Footings126	61.0	10460
271	04/13/2018	128539	8.5	6.6	68°	147.2	Footings126	61.0	10450
272	04/13/2018	128544	9.0	7.0	67°	146.8	Footings121	61.0	8690
272	04/13/2018	128545	9.0	7.0	67°	146.8	Footings121	61.0	8930
272	04/13/2018	128546	9.0	7.0	67°	146.8	Footings121	61.0	8510
273	04/17/2018	128516	9.0	7.0	68°	144.8	zone4pou1	11.0	9390
273	04/17/2018	128517	9.0	7.0	68°	144.8	zone4pou1	11.0	9580
273	04/17/2018	128518	9.0	7.0	68°	144.8	zone4pou1	11.0	9450
323	05/14/2018	127637	20.0	4.6	54°	146.0	E.existing	1,001.0	8310
323	05/14/2018	127638	20.0	4.6	54°	146.0	E.existing	1,001.0	4290
323	05/14/2018	127639	20.0	4.6	54°	146.0	E.existing	1,001.0	6150
324	05/14/2018	127759	20.0	5.0	70°	152.0	E.existing	1,001.0	9320
324	05/14/2018	127760	20.0	5.0	70°	152.0	E.existing	1,001.0	9010
324	05/14/2018	127761	20.0	5.0	70°	152.0	E.existing	1,001.0	9340
325	05/14/2018	121768	16.0	5.0	60°	148.5	E.existing	1,001.0	10510
325	05/14/2018	121769	16.0	5.0	60°	148.5	E.existing	1,001.0	11110
325	05/14/2018	121770	16.0	5.0	60°	148.5	E.existing	1,001.0	11320
326	05/14/2018	127752	17.0	5.5	69°	152.0	E.existing	1,001.0	10550
326	05/14/2018	127753	17.0	5.5	69°	152.0	E.existing	1,001.0	10800
326	05/14/2018	127754	17.0	5.5	69°	152.0	E.existing	1,001.0	10740
327	05/14/2018	121775	17.0	5.0	62°	148.0	Foundation	1,001.0	10330
327	05/14/2018	121776	17.0	5.0	62°	148.0	Foundation	1,001.0	7150
327	05/14/2018	121777	17.0	5.0	62°	148.0	Foundation	1,001.0	10980

Licensed Concrete Lab Director Name (please print)

Richard Hallahan, P.E.

Signature

Date

08-16-19

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

TR2

Sheet number 7 of 10 sheets

6 Test Report Required prior to Sign-off. Use supplemental pages as needed. Attach Original Lab Test Reports

Specified Concrete Str. (f_c):

PSI 6500

Specified Test Age (days): 28

			Field Testing Results:						
Test Report Number	Date of Placement	Cylinder I.D.	Slump	Air Content	Temperature	Weight	Placement Location	Total Placement	Breaking Strength
328	05/14/2018	127778	20.0 in	5.2 %	68° °F	152.0 lbs/ft ³	E.existing	1,001 yd ³	10820 PSI
328	05/14/2018	127779	20.0	5.2	68°	152.0	E.existing	1,001.0	10410
328	05/14/2018	127780	20.0	5.2	68°	152.0	E.existing	1,001.0	11760
329	05/14/2018	127671	20.0	5.5	60°	146.1	Foundation	1,001.0	9870
329	05/14/2018	127672	20.0	5.5	60°	146.1	Foundation	1,001.0	9680
329	05/14/2018	127673	20.0	5.5	60°	146.1	Foundation	1,001.0	10880
330	05/14/2018	127685	19.0	5.0	67°	152.0	E.existing	1,001.0	10510
330	05/14/2018	127686	19.0	5.0	67°	152.0	E.existing	1,001.0	10360
330	05/14/2018	127687	19.0	5.0	67°	152.0	E.existing	1,001.0	10860
331	05/14/2018	127644	18.0	5.3	N/A	146.9	Foundation	1,001.0	9740
331	05/14/2018	127645	18.0	5.3	N/A	146.9	Foundation	1,001.0	9940
331	05/14/2018	127646	18.0	5.3	N/A	146.9	Foundation	1,001.0	10810
332	05/14/2018	127692	20.0	5.4	65°	152.0	Foundation	1,001.0	10880
332	05/14/2018	127693	20.0	5.4	65°	152.0	Foundation	1,001.0	10870
332	05/14/2018	127694	20.0	5.4	65°	152.0	Foundation	1,001.0	11540
333	05/14/2018	127653	20.0	5.1	60°	147.2	E.existing	1,001.0	10850
333	05/14/2018	127654	20.0	5.1	60°	147.2	E.existing	1,001.0	10160
333	05/14/2018	127655	20.0	5.1	60°	147.2	E.existing	1,001.0	10090
334	05/14/2018	127705	50.0	5.2	65°	151.0	Foundation	1,001.0	10380
334	05/14/2018	127706	50.0	5.2	65°	151.0	Foundation	1,001.0	9530
334	05/14/2018	127707	50.0	5.2	65°	151.0	Foundation	1,001.0	10050
335	05/14/2018	127660	19.0	4.8	62°	148.3	Foundation	1,001.0	9180
335	05/14/2018	127661	19.0	4.8	62°	148.3	Foundation	1,001.0	9750
335	05/14/2018	127662	19.0	4.8	62°	148.3	Foundation	1,001.0	10050
336	05/14/2018	126952	18.0	4.8	65°	151.0	Mid Rise	1,001.0	10610
336	05/14/2018	126953	18.0	4.8	65°	151.0	Mid Rise	1,001.0	9850
336	05/14/2018	126954	18.0	4.8	65°	151.0	Mid Rise	1,001.0	9610
337	05/14/2018	126952	18.0	4.9	61°	148.9	E.existing	1,001.0	11170
337	05/14/2018	126953	18.0	4.9	61°	148.9	E.existing	1,001.0	9160
337	05/14/2018	126954	18.0	4.9	61°	148.5	E.existing	1,001.0	10290

Licensed Concrete Lab Director (please print)

Richard Hallahan, P.E.

Signature

Date

08-16-19

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

TR2

Sheet number 8 of 10 sheets

6 Test Report Required prior to Sign-off. Use supplemental pages as needed. Attach Original Lab Test ReportsSpecified Concrete Str. (f'_c):

PSI 6500

Specified Test Age (days): 28

			Field Testing Results:								
Test Report Number	Date of Placement	Cylinder I.D.	Slump	Air Content	Temperature	Weight	Placement Location	Total Placement	Breaking Strength		
338	05/14/2018	126959	21.0 in	5.0 %	66° °F	151.0 lbs/ft ³	E.existing	1,001 yd ³	10420 PSI		
338	05/14/2018	126960	21.0	5.0	66°	151.0	E.existing	1,001.0	10260		
338	05/14/2018	126961	21.0	5.0	66°	151.0	E.existing	1,001.0	10070		
339	05/14/2018	121856	20.0	5.0	62°	148.1	Foundation	1,001.0	11180		
339	05/14/2018	121857	20.0	5.0	62°	148.1	Foundation	1,001.0	10840		
339	05/14/2018	121858	20.0	5.0	62°	148.1	Foundation	1,001.0	10090		
340	05/14/2018	126966	21.0	5.2	65°	151.0	Foundation	1,001.0	10480		
340	05/14/2018	126967	21.0	5.2	65°	151.0	Foundation	1,001.0	10010		
340	05/14/2018	126968	21.0	5.2	65°	151.0	Foundation	1,001.0	10360		
341	05/14/2018	121783	21.0	4.0	64°	147.8	E.existing	1,001.0	10680		
341	05/14/2018	121784	21.0	4.0	64°	147.8	E.existing	1,001.0	10480		
341	05/14/2018	121785	21.0	4.0	64°	147.8	E.existing	1,001.0	11110		
342	05/14/2018	126973	21.0	5.0	64°	151.0	Foundation	1,001.0	9880		
342	05/14/2018	126974	21.0	5.0	64°	151.0	Foundation	1,001.0	9150		
342	05/14/2018	126975	21.0	5.0	64°	151.0	Foundation	1,001.0	11500		
347	05/21/2018	122097	7.0	5.8	73°	147.2	Foundation	42.0	10800		
347	05/21/2018	122098	7.0	5.8	73°	147.2	Foundation	42.0	10640		
347	05/21/2018	122099	7.0	5.8	73°	147.2	Foundation	42.0	11320		
355	05/25/2018	126922	7.5	6.6	71°	145.2	Shear Wall	120.0	10550		
355	05/25/2018	126949	7.5	6.6	71°	145.2	Shear Wall	120.0	10260		
355	05/25/2018	128001	7.5	6.6	71°	145.2	Shear Wall	120.0	10040		
356	05/25/2018	128729	8.5	7.0	76°	144.4	column122	120.0	9220		
356	05/25/2018	128730	8.5	7.0	76°	144.4	column122	120.0	9250		
356	05/25/2018	128731	8.5	7.0	76°	144.4	column122	120.0	9000		
357	05/25/2018	128095	7.5	6.4	81°	145.6	Foundation	120.0	8050		
357	05/25/2018	129526	7.5	6.4	81°	145.6	Foundation	120.0	8160		
357	05/25/2018	129530	7.5	6.4	81°	145.6	Foundation	120.0	7790		
343	05/17/2018	126917	8.5	6.8	70°	144.4	S.Wall 3	84.0	10320		
343	05/17/2018	126918	8.5	6.8	70°	144.4	S.Wall 3	84.0	11240		
343	05/17/2018	126919	8.5	6.8	70°	144.4	S.Wall 3	84.0	10880		

Licensed Concrete Lab Director Name (Please print)

Richard Harabala, P.E.

Signature

Date

08-16-19

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

Specified Test Age (days): 28

[illegible]

Signature _____

Date
08-16-19

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

TR2

Sheet number 10 of 10 sheets

7 Licensed Concrete Testing Laboratory's Certification of Completion *Required prior to Sign-off.*

- ☒ I certify that I have completed the testing specified herein and that the results reported in section 6 of this form are true and accurate in accordance with §28-406.3.2.

I am aware of the additional sanctions imposed on false filings by §28-211.1.2 of the Administrative Code.

- ☐ **Withdrawal of Applicant:** I am withdrawing responsibility for conducting the tests indicated herein and herewith submit the results or status of the work performed to date.

Name (please print)

Richard Hallahan, P.E.

Signature

Date

08-16-19

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

8 Design Applicant's Statements and Signatures *Required prior to Sign-off. P.E./R.A. responsible for plans, choose one and sign/seal.*

- ☒ I certify I have reviewed the test results reported by the licensed concrete testing lab in section 6 above and found them to be in compliance with the approved construction documents.

- ☐ I certify I have reviewed the test results reported by the licensed concrete testing lab in section 6 above and found them to be in compliance with the approved construction documents except as noted in the attached report (BC 1905.6.3.3)
Note: design applicant's signed and sealed report must be attached to this document

Name (please print)

Signature

Date

1-13-2020

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

9 Concrete Producer's Statement and Signature *Required prior to Sign-off. Must be filled out by Owner of Production Facility.*

I certify that the test results reported in section 6 above were reported to me, and I further certify that the concrete delivered is in accordance with the design mix(es) specified on the TR3 submitted for the work specified in section 1 above.

Name (print)

Title

Signature

Date

NRMCA Expiration Date (BC 1905.8.2)

Business Name

Business Telephone

Business Address

Business Fax:

City

State

Zip



SI-MT-C

CONCRETE TESTING LAB

NYC LICENSE NO: 066

HAKS Material Testing Group

47 Hudson Street

Ossining NY

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	179
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing	Inspectors ACI #:	01299127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	58
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/08/18
Mix Class:	6500psi	Date Received:	03/09/18
Slump: (In)	11.0"(ASTM C143)	Concrete Temp. (°F):	68°F (ASTM C1064)
Air Content:	5.4%(ASTM C173)	Volume (YD³):	190.0yd³
Density (lbs/ft³):	156.4(ASTM C138)	Weather:	39°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
126001	4.00	12.57	03/15/18	7	105740	8410	2
126002	4.00	12.57	03/15/18	7	104950	8350	2
126003	4.00	12.57	04/05/18	28	139310	11080	2
126004	4.00	12.57	04/05/18	28	148390	11810	3
126005	4.00	12.57	04/05/18	28	145960	11610	2
126006	4.00	12.57	05/03/18	56	165490	13170	3
126007	4.00	12.57	05/03/18	56	178080	14170	2

Specific Location: Loading dock slab.

Note(s):

Lab Technician: Muhammud Waqas

ACI Certification #: 01256162

Date: 05/03/18

Submitted by HAKS Engineers PC
Lab Director Richard Hallahan P.E.



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	180
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing	Inspectors ACI #:	01299127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	60
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/08/18
Mix Class:	6500psi	Date Received:	03/09/18
Slump: (In)	8.0"(ASTM C143)	Concrete Temp. (°F):	64°F (ASTM C1064)
Air Content:	5.1%(ASTM C173)	Volume (YD³):	190.0yd³
Density (lbs/ft³):	156.0(ASTM C138)	Weather:	39°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
126064	4.00	12.57	03/15/18	7	126540	10070	2
126065	4.00	12.57	03/15/18	7	116810	9290	2
126066	4.00	12.57	04/05/18	28	173510	13800	2
126067	4.00	12.57	04/05/18	28	151100	12020	3
126068	4.00	12.57	04/05/18	28	155010	12330	3
126069	4.00	12.57	05/03/18	56	192980	15350	3
126070	4.00	12.57	05/03/18	56	200320	15940	3

Specific Location: Loading dock slab.**Note(s):****Lab Technician:** Muhammad Waqas**ACI Certification #:** 01256162**Date:** 05/03/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.





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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	181
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing	Inspectors ACI #:	01299127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	54
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/08/18
Mix Class:	6500psi	Date Received:	03/09/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	62°F (ASTM C1064)
Air Content:	5.5%(ASTM C173)	Volume (YD³):	190.0yd³
Density (lbs/ft³):	154.8(ASTM C138)	Weather:	39°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
126071	4.00	12.57	03/15/18	7	108200	8610	2
126072	4.00	12.57	03/15/18	7	117690	9360	3
126073	4.00	12.57	04/05/18	28	166190	13220	2
126074	4.00	12.57	04/05/18	28	164530	13090	2
126075	4.00	12.57	04/05/18	28	151760	12070	3
126076	4.00	12.57	05/03/18	56	185100	14730	3
126077	4.00	12.57	05/03/18	56	178650	14210	3

Specific Location: Loading dock slab.

Note(s):

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 05/03/18





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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	182
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing	Inspectors ACI #:	01299127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	58
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/08/18
Mix Class:	6500psi	Date Received:	03/09/18
Slump: (In)	8.5"(ASTM C143)	Concrete Temp. (°F):	62°F (ASTM C1064)
Air Content:	5.4%(ASTM C173)	Volume (YD³):	190.0yd³
Density (lbs/ft³):	155.6(ASTM C138)	Weather:	39°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
126078	4.00	12.57	03/15/18	7	122070	9710	3
126079	4.00	12.57	03/15/18	7	127670	10160	3
126080	4.00	12.57	04/05/18	28	174510	13880	2
126081	4.00	12.57	04/05/18	28	160840	12800	3
126082	4.00	12.57	04/05/18	28	170060	13530	3
126083	4.00	12.57	05/03/18	56	190580	15160	3
126084	4.00	12.57	05/03/18	56	191730	15250	3

Specific Location: Loading dock slab.

Note(s):

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 05/03/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #: 66 Report #: 207

Client: BRP Cast By: Johnny Zapata

Project Name: Jamaica Crossing Inspectors ACI #: 01299127

Project Address: 147-40 Archer Avenue, Queens, NY Truck #: 65

HAKS Project #: NL 2015-11-340A01 Date Cast: 03/20/18

Mix Class: 6500 PSI (Micro Pump) Date Received: 03/21/18

Slump: (In) 9.0"(ASTM C143) Concrete Temp. (°F): 64°F (ASTM C1064)

Air Content: 4.9%(ASTM C173) Volume (YD³): 240 yd³

Density (lbs/ft³): 155.2(ASTM C138) Weather: 36°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
129498	4.00	12.57	03/27/18	7	128080	10190	2
129499	4.00	12.57	03/27/18	7	133980	10660	2
113797	4.00	12.57	04/17/18	28	193310	15380	3
113798	4.00	12.57	04/17/18	28	186500	14840	2
113799	4.00	12.57	04/17/18	28	128500	10220	2
129500	4.00	12.57	05/15/18	56	202140	16080	3
128700	4.00	12.57	05/15/18	56	176800	14070	2

Specific Location: High Rise Building Super Structure: Second floor slab spanning from columns 31 & 127 to the west perimeter of the building.

Note(s):

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 05/15/18





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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	210
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing	Inspectors ACI #:	01299127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	55
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/20/18
Mix Class:	6500 PSI (Micro Pump)	Date Received:	03/21/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	64°F (ASTM C1064)
Air Content:	4.8%(ASTM C173)	Volume (YD³):	240 yd³
Density (lbs/ft³):	154.8(ASTM C138)	Weather:	35°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
124345	4.00	12.57	03/27/18	7	160270	12750	2
124346	4.00	12.57	03/27/18	7	174390	13870	3
124347	4.00	12.57	04/17/18	28	189315	15060	2
124348	4.00	12.57	04/17/18	28	213270	16970	3
129451	4.00	12.57	04/17/18	28	215640	17160	3
129452	4.00	12.57	05/15/18	56	233690	18590	3
129453	4.00	12.57	05/15/18	56	231130	18390	3

Specific Location: High Rise Building Super Structure: 2nd floor slab spanning from columns 31 & 127 to West perimeter of the building

Note(s):**Lab Technician:** Muhammad Waqas**ACI Certification #:** 01256162**Date:** 05/15/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	211
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing	Inspectors ACI #:	01299127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	53
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/20/18
Mix Class:	6500 PSI (Micro Pump)	Date Received:	03/21/18
Slump: (In)	10.0"(ASTM C143)	Concrete Temp. (°F):	64°F (ASTM C1064)
Air Content:	5.1%(ASTM C173)	Volume (YD³):	240 yd³
Density (lbs/ft³):	154.4(ASTM C138)	Weather:	36°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
129461	4.00	12.57	03/27/18	7	157050	12490	3
129462	4.00	12.57	03/27/18	7	164240	13070	2
129463	4.00	12.57	04/17/18	28	208705	16600	3
129464	4.00	12.57	04/17/18	28	203720	16210	3
129465	4.00	12.57	04/17/18	28	214230	17040	3
129466	4.00	12.57	05/15/18	56	230540	18340	3
129467	4.00	12.57	05/15/18	56	247620	19700	3

Specific Location: High Rise Building Super Structure: 2nd floor slab spanning from columns 31 & 127 to West perimeter of the building

Note(s):

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 05/15/18





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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	212
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing	Inspectors ACI #:	01299127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	58
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/20/18
Mix Class:	6500 PSI (Micro Pump)	Date Received:	03/21/18
Slump: (In)	8.5"(ASTM C143)	Concrete Temp. (°F):	64°F (ASTM C1064)
Air Content:	5.0%(ASTM C173)	Volume (YD³):	240 yd³
Density (lbs/ft³):	154.8(ASTM C138)	Weather:	36°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. In.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
129475	4.00	12.57	03/27/18	7	142310	11320	2
129476	4.00	12.57	03/27/18	7	129890	10330	3
129477	4.00	12.57	04/17/18	28	197260	15690	3
129478	4.00	12.57	04/17/18	28	183770	14620	2
129479	4.00	12.57	04/17/18	28	195770	15570	2
129480	4.00	12.57	05/15/18	56	179080	14250	3
129481	4.00	12.57	05/15/18	56	197310	15700	3

Specific Location: High Rise Building Super Structure: 2nd floor slab spanning from columns 31 & 127 to West perimeter of the building

Note(s):

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 05/15/18





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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	213
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing	Inspectors ACI #:	01299127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	53
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/20/18
Mix Class:	6500 PSI (Micro Pump)	Date Received:	03/21/18
Slump: (In)	10.0"(ASTM C143)	Concrete Temp. (°F):	64°F (ASTM C1064)
Air Content:	5.1%(ASTM C173)	Volume (YD³):	240 yd³
Density (lbs/ft³):	154.4(ASTM C138)	Weather:	36°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (In.)	Area of the Cylinder (sq. In.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
129468	4.00	12.57	03/27/18	7	171960	13680	2
129469	4.00	12.57	03/27/18	7	176660	14050	2
129470	4.00	12.57	04/17/18	28	210035	16710	3
129471	4.00	12.57	04/17/18	28	224350	17850	3
129472	4.00	12.57	04/17/18	28	213340	16970	3
129473	4.00	12.57	05/15/18	56	151710	12070	3
129474	4.00	12.57	05/15/18	56	237510	18890	2

Specific Location: High Rise Building Super Structure: 2nd floor slab spanning from columns 31 & 127 to West perimeter of the building

Note(s): NCR issued due to the following:

1. The slump for the 1st load of 650 Micro Mix, Truck #53, exceeded the 8" +/- tolerance

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 05/15/18

Submitted by HAKS Engineers/PC
Lab Director: Richard Hallahan P.E.



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	214
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing	Inspectors ACI #:	01299127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	59
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/20/18
Mix Class:	6500 PSI (Micro Pump)	Date Received:	03/21/18
Slump: (In)	8.5"(ASTM C143)	Concrete Temp. (°F):	64°F (ASTM C1064)
Air Content:	5.3%(ASTM C173)	Volume (YD³):	240 yd³
Density (lbs/ft³):	154.0(ASTM C138)	Weather:	36°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
129491	4.00	12.57	03/27/18	7	168920	13440	3
129492	4.00	12.57	03/27/18	7	164300	13070	3
129493	4.00	12.57	04/17/18	28	192995	15350	3
129494	4.00	12.57	04/17/18	28	186290	14820	3
129495	4.00	12.57	04/17/18	28	197205	15690	2
129496	4.00	12.57	05/15/18	56	216830	17250	3
129497	4.00	12.57	05/15/18	56	226450	18020	2

Specific Location: High Rise Building Super Structure: 2nd floor slab spanning from columns 31 & 127 to West perimeter of the building

Note(s):**Lab Technician:** Muhammad Waqas**ACI Certification #:** 01256162**Date:** 05/15/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	220
Client:	BRP	Cast By:	Pamela Vassios
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01121719
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	59
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/29/18
Mix Class:	6500psi	Date Received:	03/30/18
Slump: (In)	10.0"(ASTM C143)	Concrete Temp. (°F):	60°F (ASTM C1064)
Air Content:	6.5%(ASTM C173)	Volume (YD³):	143.0yd³
Density (lbs/ft³):	147.8(ASTM C138)	Weather:	40°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
118383	4.00	12.57	04/05/18	7	94685	7530	3
118384	4.00	12.57	04/05/18	7	93375	7430	3
118385	4.00	12.57	04/26/18	28	134550	10700	3
118386	4.00	12.57	04/26/18	28	123370	9810	3
118387	4.00	12.57	04/26/18	28	136360	10850	5
118388	4.00	12.57	05/24/18	56	143730	11430	2
118389	4.00	12.57	05/24/18	56	153450	12210	3

Specific Location: High Rise: Walls/Columns & elevator pit slab at the East side.**Note(s):****Lab Technician:** Muhammad Waqas**ACI Certification #:** 01256162**Date:** 05/24/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	221
Client:	BRP	Cast By:	Pamela Vassios
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01121719
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	52
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/29/18
Mix Class:	6500psi	Date Received:	03/30/18
Slump: (In)	9.5"(ASTM C143)	Concrete Temp. (°F):	60°F (ASTM C1064)
Air Content:	6.0%(ASTM C173)	Volume (YD³):	143.0yd³
Density (lbs/ft³):	146.4(ASTM C138)	Weather:	40°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
113201	4.00	12.57	04/05/18	7	85610	6810	2
113202	4.00	12.57	04/05/18	7	78980	6280	2
113203	4.00	12.57	04/26/18	28	110530	8790	2
113204	4.00	12.57	04/26/18	28	118280	9410	2
113205	4.00	12.57	04/26/18	28	121290	9650	2
113206	4.00	12.57	05/24/18	56	129230	10280	3
113207	4.00	12.57	05/24/18	56	98010	7800	3

Specific Location: High Rise: Walls/Columns & elevator pit slab at the East side.

Note(s):

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 05/24/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	222
Client:	BRP	Cast By:	Pamela Vassios
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01121719
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	58
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/29/18
Mix Class:	6500psi	Date Received:	03/30/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	60°F (ASTM C1064)
Air Content:	6.0%(ASTM C173)	Volume (YD³):	143.0yd³
Density (lbs/ft³):	148.2(ASTM C138)	Weather:	40°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
117276	4.00	12.57	04/05/18	7	89680	7130	2
117277	4.00	12.57	04/05/18	7	85185	6780	2
117278	4.00	12.57	04/26/18	28	120380	9580	2
117279	4.00	12.57	04/26/18	28	118610	9440	2
117280	4.00	12.57	04/26/18	28	125650	10000	8
117281	4.00	12.57	05/24/18	56	142360	11330	2
117282	4.00	12.57	05/24/18	56	138510	11020	2

Specific Location: High Rise: Walls/Columns & elevator pit slab at the East side.

Note(s):

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 05/24/18





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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	223
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	59
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/29/18
Mix Class:	6500psi	Date Received:	03/30/18
Slump: (In)	8.0"(ASTM C143)	Concrete Temp. (°F):	74°F (ASTM C1064)
Air Content:	4.4%(ASTM C173)	Volume (YD³):	501.0yd³
Density (lbs/ft³):	156.8(ASTM C138)	Weather:	49°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
126519	4.00	12.57	04/05/18	7	117413	9340	2
126520	4.00	12.57	04/05/18	7	121805	9690	2
126521	4.00	12.57	04/26/18	28	167440	13320	3
126522	4.00	12.57	04/26/18	28	170070	13530	3
126523	4.00	12.57	04/26/18	28	179220	14260	3
126524	4.00	12.57	05/24/18	56	189740	15090	3
126525	4.00	12.57	05/24/18	56	186755	14860	2

Specific Location: High Rise: Second floor slab phase 2 & Second floor garage ramp.

Note(s):

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 05/24/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	224
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	55
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/29/18
Mix Class:	6500psi	Date Received:	03/30/18
Slump: (In)	8.5"(ASTM C143)	Concrete Temp. (°F):	71°F (ASTM C1064)
Air Content:	4.9%(ASTM C173)	Volume (YD³):	501.0yd³
Density (lbs/ft³):	156.0(ASTM C138)	Weather:	49°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
126526	4.00	12.57	04/05/18	7	121420	9660	2
126527	4.00	12.57	04/05/18	7	124710	9920	2
126528	4.00	12.57	04/26/18	28	175780	13980	3
126529	4.00	12.57	04/26/18	28	176480	14040	3
126530	4.00	12.57	04/26/18	28	175560	13970	3
126531	4.00	12.57	05/24/18	56	184515	14680	3
126532	4.00	12.57	05/24/18	56	190960	15190	3

Specific Location: High Rise: Second floor slab phase 2 & Second floor garage ramp.**Note(s):**

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 05/24/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	225
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	59
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/29/18
Mix Class:	6500psi	Date Received:	03/30/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	64°F (ASTM C1064)
Air Content:	5.5%(ASTM C173)	Volume (YD³):	501.0yd³
Density (lbs/ft³):	155.2(ASTM C138)	Weather:	49°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (In.)	Area of the Cylinder (sq. In.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
126540	4.00	12.57	04/05/18	7	104690	8330	2
126541	4.00	12.57	04/05/18	7	111025	8830	2
126542	4.00	12.57	04/26/18	28	158610	12620	3
126543	4.00	12.57	04/26/18	28	166780	13270	2
126544	4.00	12.57	04/26/18	28	155165	12340	2
126545	4.00	12.57	05/24/18	56	187380	14910	3
126546	4.00	12.57	05/24/18	56	189165	15050	3

Specific Location: High Rise: Second floor slab phase 2 & Second floor garage ramp.**Note(s):****Lab Technician:** Muhammad Waqas**ACI Certification #:** 01256162**Date:** 05/24/18Submitted by HAKS Engineers PC
Lab Director: Richard Mahahan P.E.

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TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	226
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	56
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/29/18
Mix Class:	6500psi	Date Received:	03/30/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	62°F (ASTM C1064)
Air Content:	5.4%(ASTM C173)	Volume (YD³):	501.0yd³
Density (lbs/ft³):	155.2(ASTM C138)	Weather:	49°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
121011	4.00	12.57	04/05/18	7	100950	8030	2
121012	4.00	12.57	04/05/18	7	108410	8620	2
121013	4.00	12.57	04/26/18	28	139920	11130	3
121014	4.00	12.57	04/26/18	28	169885	13520	3
121015	4.00	12.57	04/26/18	28	157505	12530	2
121016	4.00	12.57	05/24/18	56	175990	14000	2
121017	4.00	12.57	05/24/18	56	180765	14380	3

Specific Location: High Rise: Second floor slab phase 2 & Second floor garage ramp.**Note(s):****Lab Technician:** Muhammad Waqas**ACI Certification #:** 01256162**Date:** 05/24/18

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	227
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	50
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/29/18
Mix Class:	6500psi	Date Received:	03/30/18
Slump: (In)	8.5"(ASTM C143)	Concrete Temp. (°F):	62°F (ASTM C1064)
Air Content:	5.2%(ASTM C173)	Volume (YD³):	501.0yd³
Density (lbs/ft³):	155.6(ASTM C138)	Weather:	49°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
121018	4.00	12.57	04/05/18	7	121995	9710	2
121019	4.00	12.57	04/05/18	7	128965	10260	3
121020	4.00	12.57	04/26/18	28	167440	13320	2
121021	4.00	12.57	04/26/18	28	170072	13530	2
121022	4.00	12.57	04/26/18	28	179220	14260	2
121023	4.00	12.57	05/24/18	56	198330	15780	3
121024	4.00	12.57	05/24/18	56	189090	15040	3

Specific Location: High Rise: Second floor slab phase 2 & Second floor garage ramp.**Note(s):**

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 05/24/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	228
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	60
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/29/18
Mix Class:	6500psi	Date Received:	03/30/18
Slump: (In)	8.5"(ASTM C143)	Concrete Temp. (°F):	67°F (ASTM C1064)
Air Content:	5.0%(ASTM C173)	Volume (YD³):	501.0yd³
Density (lbs/ft³):	156.0(ASTM C138)	Weather:	49°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
121025	4.00	12.57	04/05/18	7	111560	8880	2
121026	4.00	12.57	04/05/18	7	118775	9450	3
121027	4.00	12.57	04/26/18	28	145380	11570	5
121028	4.00	12.57	04/26/18	28	155430	12370	3
121029	4.00	12.57	04/26/18	28	166745	13270	2
121030	4.00	12.57	05/24/18	56	176930	14080	3
121031	4.00	12.57	05/24/18	56	182480	14520	3

Specific Location: High Rise: Second floor slab phase 2 & Second floor garage ramp.**Note(s):****Lab Technician:** Muhammad Waqas**ACI Certification #:** 01256162**Date:** 05/24/18Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.



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TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	229
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	51
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/29/18
Mix Class:	6500psi	Date Received:	03/30/18
Slump: (In)	8.0"(ASTM C143)	Concrete Temp. (°F):	66°F (ASTM C1064)
Air Content:	4.9%(ASTM C173)	Volume (YD³):	501.0yd³
Density (lbs/ft³):	156.0(ASTM C138)	Weather:	49°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
121033	4.00	12.57	04/05/18	7	123905	9860	3
121034	4.00	12.57	04/05/18	7	124470	9900	2
121035	4.00	12.57	04/26/18	28	163820	13030	3
121036	4.00	12.57	04/26/18	28	163280	12990	3
121037	4.00	12.57	04/26/18	28	172360	13710	3
121038	4.00	12.57	05/24/18	56	189190	15050	3
121039	4.00	12.57	05/24/18	56	187035	14880	3

Specific Location: High Rise: Second floor slab phase 2 & Second floor garage ramp.**Note(s):****Lab Technician:** Muhammad Waqas**ACI Certification #:** 01256162**Date:** 05/24/18Submitted by HAKS Engineers PC
Lab Director Richard Hallahan, P.E.



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	230
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	51
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/29/18
Mix Class:	6500psi	Date Received:	03/30/18
Slump: (In)	8.5"(ASTM C143)	Concrete Temp. (°F):	66°F (ASTM C1064)
Air Content:	5.3%(ASTM C173)	Volume (YD³):	501.0yd³
Density (lbs/ft³):	155.2(ASTM C138)	Weather:	49°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (In.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
121046	4.00	12.57	04/05/18	7	104390	8300	2
121047	4.00	12.57	04/05/18	7	105035	8360	2
121048	4.00	12.57	04/26/18	28	147710	11750	3
121049	4.00	12.57	04/26/18	28	145490	11570	3
121050	4.00	12.57	04/26/18	28	137330	10930	3
121051	4.00	12.57	05/24/18	56	170470	13560	2
121052	4.00	12.57	05/24/18	56	196220	15610	3

Specific Location: High Rise:

Note(s):

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 05/24/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	231
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	53
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/29/18
Mix Class:	6500psi	Date Received:	03/30/18
Slump: (In)	8.0"(ASTM C143)	Concrete Temp. (°F):	64°F (ASTM C1064)
Air Content:	4.7%(ASTM C173)	Volume (YD³):	501.0yd³
Density (lbs/ft³):	156.8(ASTM C138)	Weather:	49°F

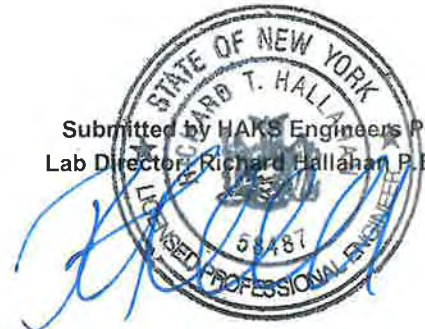
Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
121053	4.00	12.57	04/05/18	7	112055	8910	3
121054	4.00	12.57	04/05/18	7	125190	9960	2
121055	4.00	12.57	04/26/18	28	153215	12190	3
121056	4.00	12.57	04/26/18	28	155555	12380	2
121057	4.00	12.57	04/26/18	28	166595	13250	3
121058	4.00	12.57	05/24/18	56	165840	13190	2
121059	4.00	12.57	05/24/18	56	176110	14010	3

Specific Location: High Rise: Second floor slab phase 2 & Second floor garage ramp.

Note(s):

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 05/24/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	232
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	58
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/29/18
Mix Class:	6500psi	Date Received:	03/30/18
Slump: (In)	8.0"(ASTM C143)	Concrete Temp. (°F):	64°F (ASTM C1064)
Air Content:	4.8%(ASTM C173)	Volume (YD³):	501.0yd³
Density (lbs/ft³):	156.4(ASTM C138)	Weather:	49°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
121060	4.00	12.57	04/05/18	7	109880	8740	3
121061	4.00	12.57	04/05/18	7	111140	8840	2
121062	4.00	12.57	04/26/18	28	167740	13340	3
121063	4.00	12.57	04/26/18	28	166290	13230	2
121064	4.00	12.57	04/26/18	28	170815	13590	2
121065	4.00	12.57	05/24/18	56	162980	12970	3
121066	4.00	12.57	05/24/18	56	179570	14290	3

Specific Location: High Rise: Second floor slab phase 2 & Second floor garage ramp.**Note(s):**

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 05/24/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	247
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	65
HAKS Project #:	NL 2015-11-340A01	Date Cast:	04/04/18
Mix Class:	6500 PSI with Micro	Date Received:	04/05/18
Slump: (In)	8.0"(ASTM C143)	Concrete Temp. (°F):	70°F (ASTM C1064)
Air Content:	6.4%(ASTM C173)	Volume (YD³):	35 yd³
Density (lbs/ft³):	153.2(ASTM C138)	Weather:	55°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
121627	4.00	12.57	04/11/18	7	167150	13300	3
121628	4.00	12.57	04/11/18	7	169150	13460	3
121629	4.00	12.57	05/02/18	28	218900	17410	3
121630	4.00	12.57	05/02/18	28	211010	16790	3
121631	4.00	12.57	05/02/18	28	214520	17070	3
121632	4.00	12.57	05/30/18	56	220190	17520	2
121633	4.00	12.57	05/30/18	56	219740	17480	3

Specific Location: North Slab Zone 5B

Note(s):

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 05/30/18



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TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	248
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	59
HAKS Project #:	NL 2015-11-340A01	Date Cast:	04/04/18
Mix Class:	6500psi	Date Received:	04/05/18
Slump: (In)	8.0"(ASTM C143)	Concrete Temp. (°F):	68°F (ASTM C1064)
Air Content:	5.6%(ASTM C173)	Volume (YD³):	11 yd³
Density (lbs/ft³):	145.6(ASTM C138)	Weather:	54°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. In.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
121635	4.00	12.57	04/11/18	7	106540	8480	2
121636	4.00	12.57	04/11/18	7	106780	8490	3
121637	4.00	12.57	05/02/18	28	138090	10990	3
121638	4.00	12.57	05/02/18	28	129740	10320	3
121639	4.00	12.57	05/02/18	28	141940	11290	3
121640	4.00	12.57	05/30/18	56	140620	11190	3
121641	4.00	12.57	05/30/18	56	137710	10960	3

Specific Location: Hoist Pad 3 & 4

Note(s):

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 05/30/18

Submitted by: HAKS Engineers PC
Lab Director: Richard Hallahan P.E.

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NYC DOB #:	66	Report #:	254
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	53
HAKS Project #:	NL 2015-11-340A01	Date Cast:	04/07/18
Mix Class:	6500psi	Date Received:	04/09/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	64°F (ASTM C1064)
Air Content:	6.2%(ASTM C173)	Volume (YD³):	530.0yd³
Density (lbs/ft³):	153.2(ASTM C138)	Weather:	42°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
121642	4.00	12.57	04/16/18	9	141230	11240	2
121643	4.00	12.57	04/16/18	9	144130	11470	3
121644	4.00	12.57	05/07/18	30	176540	14040	3
121645	4.00	12.57	05/07/18	30	159440	12680	2
121646	4.00	12.57	05/07/18	30	193180	15370	2
121647	4.00	12.57	06/04/18	58	200490	15950	3
121648	4.00	12.57	06/04/18	58	199230	15850	3

Specific Location: High Rise Super Structure: Second floor slab phase 3.

Note(s):

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 06/04/18



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NYC DOB #:	66	Report #:	255
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	52
HAKS Project #:	NL 2015-11-340A01	Date Cast:	04/07/18
Mix Class:	6500psi	Date Received:	04/09/18
Slump: (In)	8.5"(ASTM C143)	Concrete Temp. (°F):	62°F (ASTM C1064)
Air Content:	6.0%(ASTM C173)	Volume (YD³):	530.0yd³
Density (lbs/ft³):	152.4(ASTM C138)	Weather:	42°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
121114	4.00	12.57	04/16/18	9	138860	11050	3
121115	4.00	12.57	04/16/18	9	161790	12870	3
121116	4.00	12.57	05/07/18	30	190460	15150	2
121117	4.00	12.57	05/07/18	30	211270	16810	3
121118	4.00	12.57	05/07/18	30	195790	15580	3
121119	4.00	12.57	06/04/18	58	217770	17320	2
121120	4.00	12.57	06/04/18	58	216750	17240	3

Specific Location: High Rise Super Structure: Second floor slab phase 3.**Note(s):****Lab Technician:** Muhammad Waqas**ACI Certification #:** 01256162**Date:** 06/04/18Submitted by HAKS Engineers PC
Lab Director: Richard T. Hallahan, P.E.

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NYC DOB #:	66	Report #:	256
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	56
HAKS Project #:	NL 2015-11-340A01	Date Cast:	04/07/18
Mix Class:	6500psi	Date Received:	04/09/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	62°F (ASTM C1064)
Air Content:	5.8%(ASTM C173)	Volume (YD³):	530.0yd³
Density (lbs/ft³):	152.4(ASTM C138)	Weather:	42°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
121121	4.00	12.57	04/16/18	9	153840	12240	3
121122	4.00	12.57	04/16/18	9	159560	12690	2
121123	4.00	12.57	05/07/18	30	211110	16790	3
121124	4.00	12.57	05/07/18	30	196710	15650	3
121125	4.00	12.57	05/07/18	30	191650	15250	2
121126	4.00	12.57	06/04/18	58	207170	16480	3
121127	4.00	12.57	06/04/18	58	225880	17970	3

Specific Location: High Rise Super Structure: Second floor slab phase 3.**Note(s):****Lab Technician:** Muhammad Waqas**ACI Certification #:** 01256162**Date:** 06/04/18Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	257
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	52
HAKS Project #:	NL 2015-11-340A01	Date Cast:	04/07/18
Mix Class:	6500psi	Date Received:	04/09/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	65°F (ASTM C1064)
Air Content:	6.4%(ASTM C173)	Volume (YD³):	530.0yd³
Density (lbs/ft³):	152.4(ASTM C138)	Weather:	42°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
129558	4.00	12.57	04/16/18	9	135610	10790	3
129559	4.00	12.57	04/16/18	9	131260	10440	2
129560	4.00	12.57	05/07/18	30	179450	14280	2
129561	4.00	12.57	05/07/18	30	163300	12990	3
129562	4.00	12.57	05/07/18	30	178300	14180	2
129563	4.00	12.57	06/04/18	58	188360	14980	3
129564	4.00	12.57	06/04/18	58	191960	15270	3

Specific Location: High Rise Super Structure: Second floor slab phase 3.**Note(s):****Lab Technician:** Muhammad Waqas**ACI Certification #:** 01256162**Date:** 06/04/18

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	258
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	57
HAKS Project #:	NL 2015-11-340A01	Date Cast:	04/07/18
Mix Class:	6500psi	Date Received:	04/09/18
Slump: (In)	8.5"(ASTM C143)	Concrete Temp. (°F):	64°F (ASTM C1064)
Air Content:	5.9%(ASTM C173)	Volume (YD³):	530.0yd³
Density (lbs/ft³):	153.2(ASTM C138)	Weather:	42°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
129566	4.00	12.57	04/16/18	9	128700	10240	2
129567	4.00	12.57	04/16/18	9	144050	11460	3
129568	4.00	12.57	05/07/18	30	181640	14450	3
129569	4.00	12.57	05/07/18	30	171490	13640	3
129570	4.00	12.57	05/07/18	30	187730	14930	3
129571	4.00	12.57	06/04/18	58	184150	14650	3
129572	4.00	12.57	06/04/18	58	210880	16780	3

Specific Location: High Rise Super Structure: Second floor slab phase 3.**Note(s):****Lab Technician:** Muhammad Waqas**ACI Certification #:** 01256162**Date:** 06/04/18Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	259
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	65
HAKS Project #:	NL 2015-11-340A01	Date Cast:	04/07/18
Mix Class:	6500psi	Date Received:	04/09/18
Slump: (In)	8.0"(ASTM C143)	Concrete Temp. (°F):	64°F (ASTM C1064)
Air Content:	5.8%(ASTM C173)	Volume (YD³):	530.0yd³
Density (lbs/ft³):	153.2(ASTM C138)	Weather:	42°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
129527	4.00	12.57	04/16/18	9	149590	11900	3
129573	4.00	12.57	04/16/18	9	148190	11790	2
129574	4.00	12.57	05/05/18	28	193940	15430	2
129575	4.00	12.57	05/05/18	28	176040	14000	2
129576	4.00	12.57	05/05/18	28	180610	14370	2
129577	4.00	12.57	06/04/18	58	208260	16570	3
129578	4.00	12.57	06/04/18	58	197270	15690	2

Specific Location: High Rise Super Structure: Second floor slab phase 3.**Note(s):****Lab Technician:** Muhammad Waqas**ACI Certification #:** 01256162**Date:** 06/04/18

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NYC DOB #:	66	Report #:	260
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	55
HAKS Project #:	NL 2015-11-340A01	Date Cast:	04/07/18
Mix Class:	6500psi	Date Received:	04/09/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	62°F (ASTM C1064)
Air Content:	6.4%(ASTM C173)	Volume (YD³):	530.0yd³
Density (lbs/ft³):	152.4(ASTM C138)	Weather:	42°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
121135	4.00	12.57	04/16/18	9	132990	10580	2
121136	4.00	12.57	04/16/18	9	134130	10670	3
121137	4.00	12.57	05/07/18	30	170400	13560	3
121138	4.00	12.57	05/07/18	30	175960	14000	2
121139	4.00	12.57	05/07/18	30	168700	13420	2
121140	4.00	12.57	06/04/18	58		0	
121141	4.00	12.57	06/04/18	58		0	

Specific Location: High Rise Super Structure: Second floor slab phase 3.**Note(s):****Lab Technician:** Muhammad Waqas**ACI Certification #:** 01256162**Date:** 05/07/18Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	261
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	65
HAKS Project #:	NL 2015-11-340A01	Date Cast:	04/07/18
Mix Class:	6500psi	Date Received:	04/09/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	60°F (ASTM C1064)
Air Content:	6.2%(ASTM C173)	Volume (YD³):	530.0yd³
Density (lbs/ft³):	152.8(ASTM C138)	Weather:	42°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
121142	4.00	12.57	04/16/18	9	147030	11700	3
121143	4.00	12.57	04/16/18	9	139590	11110	3
121144	4.00	12.57	05/07/18	30	181250	14420	3
121145	4.00	12.57	05/07/18	30	172120	13690	2
121146	4.00	12.57	05/07/18	30	185220	14740	2
121173	4.00	12.57	06/04/18	58	191600	15240	3
121174	4.00	12.57	06/04/18	58	209290	16650	3

Specific Location: High Rise Super Structure: Second floor slab phase 3.**Note(s):****Lab Technician:** Muhammad Waqas**ACI Certification #:** 01256162**Date:** 06/04/18Submitted by: HAKS Engineers PC
Lab Director: Richard Hallahan P.E.

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	262
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	55
HAKS Project #:	NL 2015-11-340A01	Date Cast:	04/07/18
Mix Class:	6500psi	Date Received:	04/09/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	62°F (ASTM C1064)
Air Content:	6.2%(ASTM C173)	Volume (YD³):	530.0yd³
Density (lbs/ft³):	152.0(ASTM C138)	Weather:	42°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (In.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
121175	4.00	12.57	04/16/18	9	129570	10310	3
121176	4.00	12.57	04/16/18	9	125240	9960	3
121177	4.00	12.57	05/07/18	30	162500	12930	2
121178	4.00	12.57	05/07/18	30	153900	12240	2
121179	4.00	12.57	05/07/18	30	167030	13290	3
121180	4.00	12.57	06/04/18	58	164930	13120	2
121181	4.00	12.57	06/04/18	58	166430	13240	3

Specific Location: High Rise Super Structure: Second floor slab phase 3.**Note(s):****Lab Technician:** Muhammad Waqas**ACI Certification #:** 01256162**Date:** 06/04/18

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #: 66 Report #: 263

Client: BRP Cast By: Johnny Zapata

Project Name: Jamaica Crossing - High Rise Inspectors ACI #: 01294127

Project Address: 147-40 Archer Avenue, Queens, NY Truck #: 52

HAKS Project #: NL 2015-11-340A01 Date Cast: 04/07/18

Mix Class: 6500psi Date Received: 04/09/18

Slump: (In) 8.0"(ASTM C143) Concrete Temp. (°F): 62°F (ASTM C1064)

Air Content: 6.0%(ASTM C173) Volume (YD³): 530.0yd³

Density (lbs/ft³): 152.8(ASTM C138) Weather: 42°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (In.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
121128	4.00	12.57	04/16/18	9	161820	12870	3
121129	4.00	12.57	04/16/18	9	165440	13160	3
121130	4.00	12.57	05/07/18	30	204710	16290	3
121131	4.00	12.57	05/07/18	30	217040	17270	3
121132	4.00	12.57	05/07/18	30	202850	16140	3
121133	4.00	12.57	06/04/18	58	220010	17500	3
121134	4.00	12.57	06/04/18	58	204290	16250	3

Specific Location: High Rise Super Structure: Second floor slab phase 3.

Note(s):

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 06/04/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	264
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	56
HAKS Project #:	NL 2015-11-340A01	Date Cast:	04/07/18
Mix Class:	6500psi	Date Received:	04/09/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	65°F (ASTM C1064)
Air Content:	6.4%(ASTM C173)	Volume (YD³):	530.0yd³
Density (lbs/ft³):	152.0(ASTM C138)	Weather:	42°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
129551	4.00	12.57	04/16/18	9	122960	9780	2
129552	4.00	12.57	04/16/18	9	124400	9900	2
129553	4.00	12.57	05/07/18	30	142320	11320	3
129554	4.00	12.57	05/07/18	30	154090	12260	3
129555	4.00	12.57	05/07/18	30	148770	11840	2
129556	4.00	12.57	06/04/18	58	177160	14090	2
129557	4.00	12.57	06/04/18	58	115120	9160	3

Specific Location: High Rise Super Structure: Second floor slab phase 3.

Note(s):

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 06/04/18



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TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	265
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	55
HAKS Project #:	NL 2015-11-340A01	Date Cast:	04/07/18
Mix Class:	6500psi	Date Received:	04/09/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	62°F (ASTM C1064)
Air Content:	6.4%(ASTM C173)	Volume (YD³):	530.0yd³
Density (lbs/ft³):	152.4(ASTM C138)	Weather:	42°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
121135	4.00	12.57	04/16/18	9	132990	10580	2
121136	4.00	12.57	04/16/18	9	134130	10670	3
121137	4.00	12.57	05/07/18	30	172040	13690	2
121138	4.00	12.57	05/07/18	30	175960	14000	3
121139	4.00	12.57	05/07/18	30	165700	13180	2
121140	4.00	12.57	06/04/18	58	183340	14590	3
121141	4.00	12.57	06/04/18	58	184320	14660	3

Specific Location: High Rise Super Structure: Second floor slab phase 3.**Note(s):**

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 06/04/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	266
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	59
HAKS Project #:	NL 2015-11-340A01	Date Cast:	04/10/18
Mix Class:	6500psi	Date Received:	04/11/18
Slump: (In)	8.5"(ASTM C143)	Concrete Temp. (°F):	72°F (ASTM C1064)
Air Content:	6.8%(ASTM C173)	Volume (YD³):	8.0.0yd³
Density (lbs/ft³):	144.0(ASTM C138)	Weather:	50°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (In.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
121197	4.00	12.57	04/17/18	7	91290	7260	2
121198	4.00	12.57	04/17/18	7	92490	7360	2
121199	4.00	12.57	05/08/18	28	121650	9680	2
121200	4.00	12.57	05/08/18	28	124710	9920	3
129596	4.00	12.57	05/08/18	28	117380	9340	3
129597	4.00	12.57	06/05/18	56	121520	9670	2
129598	4.00	12.57	06/05/18	56	137870	10970	3

Specific Location: High Rise Building: Hoist pad 1 and 2.

Note(s):

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 06/05/18

Submitted By: HAKS Engineers PC
Lab Director: Richard Hallahan P.E.

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	300
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	60
HAKS Project #:	NL 2015-11-340A01	Date Cast:	05/02/18
Mix Class:	6500psi	Date Received:	05/03/18
Slump: (In)	8.5"(ASTM C143)	Concrete Temp. (°F):	74°F (ASTM C1064)
Air Content:	7.0%(ASTM C173)	Volume (YD³):	77.0yd³
Density (lbs/ft³):	154.8(ASTM C138)	Weather:	80°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
126835	4.00	12.57	05/09/18	7	134200	10680	3
126836	4.00	12.57	05/09/18	7	125670	10000	3
126837	4.00	12.57	05/30/18	28	172170	13700	2
126838	4.00	12.57	05/30/18	28	167520	13330	3
126839	4.00	12.57	05/30/18	28	159940	12720	3
126840	4.00	12.57	06/27/18	56	175160	13930	3
126841	4.00	12.57	06/27/18	56	164950	13120	3

Specific Location: High Rise Super Structure: 2nd Floor slab, Crane leave out, between 106 and 110.**Note(s):**

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 06/27/18

Submitted by: HAKS Engineers PC
Lab Director: Richard T. Hallahan P.E.

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	301
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01294127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	57
HAKS Project #:	NL 2015-11-340A01	Date Cast:	05/02/18
Mix Class:	6500psi	Date Received:	05/03/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	78°F (ASTM C1064)
Air Content:	7.2%(ASTM C173)	Volume (YD³):	77.0yd³
Density (lbs/ft³):	154.0(ASTM C138)	Weather:	80°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
126815	4.00	12.57	05/09/18	7	142140	11310	2
126816	4.00	12.57	05/09/18	7	131600	10470	2
126817	4.00	12.57	05/30/18	28	171780	13670	3
126818	4.00	12.57	05/30/18	28	168860	13430	3
126819	4.00	12.57	05/30/18	28	168060	13370	3
126820	4.00	12.57	06/27/18	56	174900	13910	3
126845	4.00	12.57	06/27/18	56	181780	14460	2

Specific Location: High Rise Super Structure: 2nd Floor slab, Crane leave out, between 106 and 110.**Note(s):****Lab Technician:** Muhammad Waqas**ACI Certification #:** 01256162**Date:** 06/27/18Submitted by HAKS Engineers PC
Lab Director: Richard Mahan P.E.

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	519
Client:	BRP	Cast By:	Oluwafemi Obagbemi
Project Name:	Jamaica Crossing	Inspectors ACI #:	01398872
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	N/A
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/08/18
Mix Class:	N/A psi	Date Received:	08/09/18
Slump: (In)	N/A "(ASTM C143)	Concrete Temp. (°F):	N/A°F (ASTM C1064)
Air Content:	N/A %(ASTM C173)	Volume (YD³):	N/Ayd³
Density (lbs/ft³):	N/A (ASTM C138)	Weather:	N/A°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133323	4.00	12.57	09/05/18	28	96190	7650	3
133324	4.00	12.57	09/05/18	28	95670	7610	2
133325	4.00	12.57	09/05/18	28	95320	7580	2
133326	4.00	12.57	09/05/18	28	93090	7410	2
133327	4.00	12.57	09/05/18	28	103770	8260	3
133328	4.00	12.57	09/05/18	28	96550	7680	2
133329	4.00	12.57	09/05/18	28	98700	7850	3
133330	4.00	12.57	09/05/18	28	96425	7670	2

Note(s):

Extra Cylinders were received with no report.

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 09/05/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.

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TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	536
Client:	BRP	Cast By:	Client
Project Name:	Jamaica Crossing -	Inspectors ACI #:	N/A
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	N/A
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/10/18
Mix Class:	N/Apsi	Date Received:	08/11/18
Slump: (In)	N/A "(ASTM C143) - SPREAD	Concrete Temp. (°F):	N/A°F (ASTM C1064)
Air Content:	N/A %(ASTM C173)	Volume (YD³):	N/A yd³
Density (lbs/ft³):	N/A (ASTM C138)	Weather:	N/A °F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
1	4.00	12.57	08/17/18	7	80430	6400	2
2	4.00	12.57	08/17/18	7	90990	7240	2
3	4.00	12.57	09/07/18	28	109555	8720	2
4	4.00	12.57	09/07/18	28	102520	8160	3
5	4.00	12.57	09/07/18	28	114100	9080	2
6	4.00	12.57	10/05/18	56	123260	9810	2
7	4.00	12.57	10/05/18	56	122160	9720	2

Location:

Note(s):

Casted by Client.

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 10/05/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	557
Client:	BRP	Cast By:	Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398865
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	111
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/17/18
Mix Class:	6500psi	Date Received:	08/18/18
Slump: (In)	8.5" (ASTM C143)	Concrete Temp. (°F):	82°F (ASTM C1064)
Air Content:	5.2% (ASTM C173)	Volume (YD³):	107.0 yd³
Density (lbs/ft³):	145.1 (ASTM C138)	Weather:	78°F (Sunny)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133072	4.00	12.57	08/24/18	7	82620	6570	2
133073	4.00	12.57	08/24/18	7	89130	7090	2
133074	4.00	12.57	09/14/18	28	113485	9030	3
133075	4.00	12.57	09/14/18	28	122270	9730	2
133076	4.00	12.57	09/14/18	28	115070	9150	3
133077	4.00	12.57	10/12/18	56	123550	9830	2
133078	4.00	12.57	10/12/18	56	120800	9610	3

Specific Location:

Slab on grade south side

Note(s):

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/12/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	558
Client:	BRP	Cast By:	Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398865
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	118
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/17/18
Mix Class:	6500psi	Date Received:	08/18/18
Slump: (In)	8.25" (ASTM C143)	Concrete Temp. (°F):	80°F (ASTM C1064)
Air Content:	5.3% (ASTM C173)	Volume (YD³):	107.0 yd³
Density (lbs/ft³):	145.8 (ASTM C138)	Weather:	78°F (Sunny)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133125	4.00	12.57	08/24/18	7	86360	6870	2
133126	4.00	12.57	08/24/18	7	93150	7410	2
133127	4.00	12.57	09/14/18	28	122640	9760	2
133128	4.00	12.57	09/14/18	28	120870	9620	2
133129	4.00	12.57	09/14/18	28	125750	10000	3
133130	4.00	12.57	10/12/18	56	133210	10600	2
133131	4.00	12.57	10/12/18	56	130990	10420	3

Specific Location:

Slab on grade south side

Note(s):

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 10/12/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	560
Client:	BRP	Cast By:	Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398865
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	55
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/17/18
Mix Class:	6500psi	Date Received:	08/18/18
Slump: (In)	6.75" (ASTM C143)	Concrete Temp. (°F):	82°F (ASTM C1064)
Air Content:	5.8% (ASTM C173)	Volume (YD³):	48.0 yd³
Density (lbs/ft³):	147.1 (ASTM C138)	Weather:	78°F (M.Clear)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133139	4.00	12.57	08/24/18	7	81190	6460	2
133140	4.00	12.57	08/24/18	7	81500	6480	2
133141	4.00	12.57	09/14/18	28	121015	9630	2
133142	4.00	12.57	09/14/18	28	117510	9350	2
133143	4.00	12.57	09/14/18	28	113010	8990	3
133144	4.00	12.57	10/12/18	56	105930	8430	3
133146	4.00	12.57	10/12/18	56	117350	9340	2

Specific Location:

Slab on grade south side

Note(s):**Lab Technician:** Muhammad Waqas**ACI Certification #:** 01256162**Date:** 10/12/18Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.
5845





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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	562
Client:	BRP	Cast By:	O.Obagbemiro
Project Name:	Jamaica Crossing - High Rise	Inspectors ACI #:	01398872
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	54
HAKS Project #:	NL 2015-11-340A01	Date Cast:	08/20/18
Mix Class:	6500psi	Date Received:	08/21/18
Slump: (In)	7.0" (ASTM C143)	Concrete Temp. (°F):	82°F (ASTM C1064)
Air Content:	3.8% (ASTM C173)	Volume (YD³):	66.0 yd³
Density (lbs/ft³):	153.34 (ASTM C138)	Weather:	73°F (Sunny)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133154	4.00	12.57	08/27/18	7	134390	10690	3
133155	4.00	12.57	08/27/18	7	147190	11710	3
133156	4.00	12.57	09/17/18	28	180390	14350	3
133157	4.00	12.57	09/17/18	28	137700	10950	2
133158	4.00	12.57	09/17/18	28	173610	13810	3
133159	4.00	12.57	10/15/18	56	186280	14820	2
133160	4.00	12.57	10/15/18	56	188010	14960	3

Specific Location: Ramp slab from column line 140,120 to east side of column line 119,139- north-east infill.**Note(s):****Lab Technician:** Muhammad Waqas**ACI Certification #:** 01256162**Date:** 10/15/18

**CONCRETE TESTING LAB**

NYC LICENSE NO: 066

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #: 66 Report #: 704

Client: BRP Cast By: Ifeoma Bellinger

Project Name: Jamaica Crossing - High Rise Inspectors ACI #: 01398865

Project Address: 147-40 Archer Avenue, Queens, NY Truck #: 60

HAKS Project #: NL 2015-11-340A01 Date Cast: 09/28/18

Mix Class: 6500psi Date Received: 09/29/18

Slump: (In) 8.0" (ASTM C143) Concrete Temp. (°F): 67°F (ASTM C1064)

Air Content: 4.8% (ASTM C173) Volume (YD³): 10.0yd³

Density (lbs/ft³): 148.4(ASTM C138) Weather: 60°F Cloudy

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
131422	4.00	12.57	10/05/18	7	102990	8190	3
131423	4.00	12.57	10/05/18	7	95970	7630	3
131424	4.00	12.57	10/26/18	28	124830	9930	3
131425	4.00	12.57	10/26/18	28	127020	10110	3
131427	4.00	12.57	10/26/18	28	122710	9760	3
131428	4.00	12.57	11/26/18	59	137810	10960	2
131473	4.00	12.57	11/26/18	59	133100	10590	3

Specific Location:

Slab edge infill at columns 112 and 113.

Note(s):

Master Tag # 016117

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 11/26/18

Submitted by: HAKS Engineers PC
Lab Director: Richard Hallahan P.E.

The results shown in this report relate only to the items tested and may not be reproduced without prior written approval of HAKS.



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	343
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01294127
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	59
HAKS Project #:	NL 2015-11-340A02	Date Cast:	05/17/18
Mix Class:	6500psi	Date Received:	05/18/18
Slump: (In)	8.5"(ASTM C143)	Concrete Temp. (°F):	70°F (ASTM C1064)
Air Content:	6.8%(ASTM C173)	Volume (YD³):	84.0yd³
Density (lbs/ft³):	144.4(ASTM C138)	Weather:	59°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
126915	4.00	12.57	05/24/18	7	108090	8600	3
126916	4.00	12.57	05/24/18	7	105840	8420	3
126917	4.00	12.57	06/14/18	28	129680	10320	3
126918	4.00	12.57	06/14/18	28	141340	11240	2
126919	4.00	12.57	06/14/18	28	136710	10880	2
126920	4.00	12.57	07/12/18	56	145850	11600	2
126921	4.00	12.57	07/12/18	56	149440	11890	2

Specific Location: Mid Rise Building: South wall 3, Hoist pad for Mide Rise Building and curbs around column 107.

Note(s):

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 07/12/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	344
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01294127
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	59
HAKS Project #:	NL 2015-11-340A02	Date Cast:	05/17/18
Mix Class:	6500psi	Date Received:	05/18/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	71°F (ASTM C1064)
Air Content:	7.0%(ASTM C173)	Volume (YD³):	84.0yd³
Density (lbs/ft³):	144.0(ASTM C138)	Weather:	59°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
126908	4.00	12.57	05/24/18	7	116270	9250	2
126909	4.00	12.57	05/24/18	7	113820	9050	3
126910	4.00	12.57	06/14/18	28	151990	12090	2
126911	4.00	12.57	06/14/18	28	147200	11710	3
126912	4.00	12.57	06/14/18	28	154570	12300	3
126913	4.00	12.57	07/12/18	56	170860	13590	2
126914	4.00	12.57	07/12/18	56	160170	12740	3

Specific Location: Mid Rise Building: South wall 3, Hoist pad for Mid Rise Building and curbs around column 107.

Note(s):

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 07/12/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	396
Client:	BRP	Cast By:	Oluwafemi Obagbemiro
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398872
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	55
HAKS Project #:	NL 2015-11-340A02	Date Cast:	06/12/18
Mix Class:	6500psi	Date Received:	06/19/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	72°F (ASTM C1064)
Air Content:	5.6%(ASTM C173)	Volume (YD³):	66.0yd³
Density (lbs/ft³):	148.3(ASTM C138)	Weather:	64°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
122915	4.00	12.57	06/19/18	7	107240	8530	3
122916	4.00	12.57	06/19/18	7	99600	7920	3
122917	4.00	12.57	07/10/18	28	109870	8740	2
122918	4.00	12.57	07/10/18	28	109690	8730	2
122919	4.00	12.57	07/10/18	28	111670	8880	2
122920	4.00	12.57	08/07/18	56	131110	10430	2
122921	4.00	12.57	08/07/18	56	134480	10700	2

Specific Location:

6 inch concrete slab, West.

Note(s): Master Tag # : 14073

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 08/07/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	397
Client:	BRP	Cast By:	Oluwafemi Obagbemiro
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398872
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	55
HAKS Project #:	NL 2015-11-340A02	Date Cast:	06/12/18
Mix Class:	6500psi	Date Received:	06/19/18
Slump: (In)	9.25"(ASTM C143)	Concrete Temp. (°F):	68°F (ASTM C1064)
Air Content:	5.5%(ASTM C173)	Volume (YD³):	66.0yd³
Density (lbs/ft³):	148.4(ASTM C138)	Weather:	64°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
122943	4.00	12.57	06/19/18	7	100270	7980	2
122944	4.00	12.57	06/19/18	7	101460	8070	2
122945	4.00	12.57	07/10/18	28	108750	8650	2
122946	4.00	12.57	07/10/18	28	97310	7740	2
122947	4.00	12.57	07/10/18	28	110310	8780	2
122948	4.00	12.57	08/07/18	56	125190	9960	3
122949	4.00	12.57	08/07/18	56	115780	9210	2

Specific Location:

6 inch concrete slab, West.

Note(s): Master Tag # : 13071

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 08/07/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	168
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing	Inspectors ACI #:	01299127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	58
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/01/18
Mix Class:	6500psi	Date Received:	03/03/18
Slump: (In)	8.5"(ASTM C143)	Concrete Temp. (°F):	74°F (ASTM C1064)
Air Content:	6.6%(ASTM C173)	Volume (YD³):	110.0yd³
Density (lbs/ft³):	144.8(ASTM C138)	Weather:	49°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
128144	4.00	12.57	03/08/18	7	112030	8910	3
128145	4.00	12.57	03/08/18	7	71230	5670	2
128146	4.00	12.57	03/29/18	28	128050	10190	2
128147	4.00	12.57	03/29/18	28	135660	10790	2
128148	4.00	12.57	03/29/18	28	130380	10370	2
128149	4.00	12.57	04/26/18	56	139090	11070	3
128150	4.00	12.57	04/26/18	56	139800	11120	3

Specific Location: Highrise: First floor southern slab between columns 115 & 116

Note(s):

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 04/26/18



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TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	169
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing	Inspectors ACI #:	01299127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	57
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/01/18
Mix Class:	6500psi	Date Received:	03/01/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	72°F (ASTM C1064)
Air Content:	7.0%(ASTM C173)	Volume (YD³):	110.0yd³
Density (lbs/ft³):	144.0(ASTM C138)	Weather:	49°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
128658	4.00	12.57	03/08/18	7	110300	8770	3
128659	4.00	12.57	03/08/18	7	111490	8870	3
128660	4.00	12.57	03/29/18	28	148490	11810	3
128661	4.00	12.57	03/29/18	28	140390	11170	3
128662	4.00	12.57	03/29/18	28	140650	11190	2
128663	4.00	12.57	04/26/18	56	138640	11030	3
128664	4.00	12.57	04/26/18	56	151710	12070	3

Specific Location: Highrise: First floor southern slab between columns 115 & 116**Note(s):****Lab Technician:** Muhammad Waqas**ACI Certification #:** 01256162**Date:** 04/26/18Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	170
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing	Inspectors ACI #:	01299127
Project Address:	147-40 Archer Avenue, Queens, NY	Truck #:	56
HAKS Project #:	NL 2015-11-340A01	Date Cast:	03/01/18
Mix Class:	6500psi	Date Received:	03/03/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	74°F (ASTM C1064)
Air Content:	7.0%(ASTM C173)	Volume (YD³):	110.0yd³
Density (lbs/ft³):	143.6(ASTM C138)	Weather:	49°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (In.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
128665	4.00	12.57	03/08/18	7	98810	7860	2
128666	4.00	12.57	03/08/18	7	97570	7760	3
128667	4.00	12.57	03/29/18	28	126020	10030	3
128668	4.00	12.57	03/29/18	28	118990	9470	2
128669	4.00	12.57	03/29/18	28	124330	9890	3
128670	4.00	12.57	04/26/18	56	129120	10270	3
128671	4.00	12.57	04/26/18	56	120830	9610	3

Specific Location: Highrise: First floor southern slab between columns 115 & 116**Note(s):**

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 04/26/18

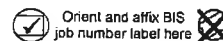


Submitted by HAKS Engineers PC
Lab Director: Richard Mallahan P.E.



TR2: Technical Report
Concrete Sampling and Testing

Must be typewritten.



Sheet number 1

Jamaica Crossing Mid Rise - Super Structure

1 Location Information Required for all applications.

Mix Design: 6000psi

House No(s) 148-10

Street Name Archer Avenue

Borough Queens

Block 9998

Lot 95

BIN 4607281

CB No. 412

Work on Floor(s) Cellar to 3rd Floor

Apt/Condo No(s) N/A

2 Licensed Concrete Testing Lab Information Required for all applications

Director Last Name Hallahan

Director First Name Richard

Director Middle Initial

Business Name HAKS

Business Telephone (914) 945-9010

Business Address 47 Hudson Street

Business Fax (914) 945-9011

City Ossining

State NY

Zip 10562

Mobile Telephone

E-Mail RHallahan@haks.net

Director's Lic. Number 58487

☒ P.E. ☐ R.A.

Concrete Testing Lab Lic. Number 66

3 Licensed Concrete Testing Laboratory's Identification of Responsibilities Required prior to Permit.

Check all that apply below:

I certify that I am the director of the licensed concrete testing laboratory accepting responsibility for conducting the testing in accordance with BC 1905.6 and BC 1704.1. I further certify that I have read the applicable sections of the New York City Construction Codes in connection with the testing of concrete and licensed concrete testing laboratories as well as 1 RCNY §5-02 and 1 RCNY §101-07(c)(6), which specifies the qualifications and duties required of a licensed concrete testing laboratory and that this licensed testing laboratory meets those qualifications for the work for which I take responsibility. I agree that both I and the licensed concrete testing laboratory will comply with all provisions of the New York City Construction Codes as well as 1 RCNY §5-02 and 1 RCNY §101-07(c)(6). I am aware of the additional sanctions imposed on false filings by §28-211.1.2 of the Administrative Code.

Change of Applicant: I am a newly designated individual responsible for the testing specified herein and I hereby state that:

☐ None of the tests indicated herein have been performed to date by the previously designated individual.

☐ Some of the tests indicated herein have been performed by the previously designated individual, as indicated in the attached report.

I am aware of the additional sanctions imposed on false filings by §28-211.1.2 of the Administrative Code.

Name (please print)

Signature

Date

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

4 Design Applicant's Statement and Signature *P.E./R.A. Required prior to Permit.*

☐ I certify that the licensed concrete testing laboratory specified in section 2 above and engaged by the owner to perform tests on the work at the location specified in section 1 above is acceptable. (BC 1704.1)

Name (please print)

Signature

Date

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

5 Building Owner's Statement and Signature *Required prior to Permit.*

I certify that I have employed the licensed concrete testing laboratory specified in section 2 above in accordance with BC 1704.1. 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 made a false statement or to have knowingly or negligently falsified or allowed to be falsified any certificate, form, signed statement, application, report or certification of the correction of a 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

STOP HERE PRIOR TO PERMIT

6 Test Report Required prior to Sign-off. Use supplemental pages as needed. Attach Original Lab Test ReportsSpecified Concrete Str. (f_c):

PSI 6000

Specified Test Age (days): 28

			Field Testing Results:							
Test Report Number	Date of Placement	Cylinder I.D.	Slump	Air Content	Temperature	Weight	Placement Location	Total Placement	Breaking Strength	
348	05/23/2018	122144	9.0 in	7.0 %	74° °F	144.8 lbs/ft³	1st FI Slab	110.0 yd³	8370 PSI	
348	05/23/2018	122145	9.0	7.0	74°	144.8	1st FI Slab	110.0	8370	
348	05/23/2018	122146	9.0	7.0	74°	144.8	1st FI Slab	110.0	8250	
349	05/23/2018	122137	8.5	6.6	71°	145.2	1st FI Slab	110.0	8510	
349	05/23/2018	122138	8.5	6.6	71°	145.2	1st FI Slab	110.0	8770	
349	05/23/2018	122139	8.5	6.6	71°	145.2	1st FI Slab	110.0	9300	
350	05/23/2018	122151	9.0	6.8	71°	144.8	1st FI Slab	110.0	9370	
350	05/23/2018	122152	9.0	6.8	71°	144.8	1st FI Slab	110.0	9310	
350	05/23/2018	122153	9.0	6.8	71°	144.8	1st FI Slab	110.0	9930	
565	08/23/2018	132184	8.5	4.7	79°	145.1	2FI column	99.0	8930	
565	08/23/2018	132185	8.5	4.7	79°	145.1	2FI column	99.0	9010	
565	08/23/2018	132186	8.5	4.7	79°	145.1	2FI column	99.0	8820	
566	08/23/2018	132163	8.75	4.9	79°	144.8	2FI shr wll	99.0	7340	
566	08/23/2018	132164	8.75	4.9	79°	144.8	2FI shr wll	99.0	7870	
566	08/23/2018	132165	8.75	4.9	79°	144.8	2FI shr wll	99.0	8150	
582	08/28/2018	132155	8.25	6.0	82°	147.0	shear wall1	657.0	9510	
582	08/28/2018	132156	8.25	6.0	82°	147.0	shear wall1	657.0	9400	
582	08/28/2018	132157	8.25	6.0	82°	147.0	shear wall1	657.0	8430	
583	08/28/2018	132148	8.5	5.8	83°	147.4	shear wall1	657.0	9090	
583	08/28/2018	132149	8.5	5.8	83°	147.4	shear wall1	657.0	8580	
583	08/28/2018	132150	8.5	5.8	83°	147.4	shear wall1	657.0	9910	
584	08/28/2018	132140	7.75	6.2	80°	145.8	2nd FI Slab	657.0	8650	
584	08/28/2018	132141	7.75	6.2	80°	145.8	2nd FI Slab	657.0	9490	
584	08/28/2018	132142	7.75	6.2	80°	145.8	2nd FI Slab	657.0	9270	
585	08/28/2018	133133	8.0	5.7	81°	147.8	2nd FI Slab	657.0	9060	
585	08/28/2018	133134	8.0	5.7	81°	147.8	2nd FI Slab	657.0	8680	
585	08/28/2018	133135	8.0	5.7	81°	147.8	2nd FI Slab	657.0	9160	
586	08/28/2018	132228	9.0	5.8	82°	147.0	shear wall1	657.0	7960	
586	08/28/2018	132229	9.0	5.8	82°	147.0	shear wall1	657.0	8130	
586	08/28/2018	132230	9.0	5.8	82°	147.4	shear wall1	657.0	7860	

Licensed Concrete Lab Director (please print)

Richard Hallahan, P.E.

Signature

Date
08-16-19

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

TR2

Sheet number 4 of 9 sheets

6 Test Report Required prior to Sign-off. Use supplemental pages as needed. Attach Original Lab Test ReportsSpecified Concrete Str. (f_c):

PSI 6000

Specified Test Age (days): 28

Test Report Number	Date of Placement	Cylinder I.D.	Field Testing Results:					Placement Location	Total Placement	Breaking Strength
			Slump	Air Content	Temperature	Weight				
587	08/28/2018	132221	8.0 in	5.7 %	82° °F	148.0 lbs/ft ³		shear wall1	657.0 yd ³	8480 PSI
587	08/28/2018	132222	8.0	5.7	82°	148.0		shear wall1	657.0	8440
587	08/28/2018	132223	8.0	5.7	82°	148.0		shear wall1	657.0	8130
588	08/28/2018	132236	8.5	5.6	80°	148.8		2nd FI Slab	657.0	8250
588	08/28/2018	132237	8.5	5.6	80°	148.8		2nd FI Slab	657.0	8770
588	08/28/2018	132238	8.5	5.6	80°	148.8		2nd FI Slab	657.0	8450
589	08/28/2018	132244	9.0	5.9	76°	146.5		2nd FI Slab	657.0	8260
589	08/28/2018	132245	9.0	5.9	76°	146.5		2nd FI Slab	657.0	8780
589	08/28/2018	132246	9.0	5.9	76°	146.5		2nd FI Slab	657.0	8520
590	08/28/2018	130453	8.75	6.0	78°	147.4		2nd FI Slab	657.0	8300
590	08/28/2018	130454	8.75	6.0	78°	147.4		2nd FI Slab	657.0	8060
590	08/28/2018	130455	8.75	6.0	78°	147.4		2nd FI Slab	657.0	8250
591	08/28/2018	130467	8.5	6.0	78°	148.9		2nd FI Slab	657.0	7520
591	08/28/2018	130468	8.5	6.0	78°	148.9		2nd FI Slab	657.0	7930
591	08/28/2018	130469	8.5	6.0	78°	148.9		2nd FI Slab	657.0	8040
592	08/28/2018	130475	9.0	4.9	79°	148.6		shear wall1	657.0	7830
592	08/28/2018	130476	9.0	4.9	79°	148.6		shear wall1	657.0	8270
592	08/28/2018	130477	9.0	4.9	79°	148.6		shear wall1	657.0	8160
593	08/28/2018	130482	9.0	6.0	78°	146.5		2FI column	657.0	8370
593	08/28/2018	130483	9.0	6.0	78°	146.5		2FI column	657.0	7960
593	08/28/2018	130484	9.0	6.0	78°	146.5		2FI column	657.0	8200
594	08/28/2018	130460	8.75	5.6	80°	147.0		2FI column	657.0	8880
594	08/28/2018	130461	8.75	5.6	80°	147.0		2FI column	657.0	9160
594	08/28/2018	130462	8.75	5.6	80°	147.0		2FI column	657.0	9280
595	08/28/2018	130490	8.75	4.9	80°	148.4		shear wall1	657.0	11280
595	08/28/2018	130491	8.75	4.9	80°	148.4		shear wall1	657.0	10500
595	08/28/2018	130492	8.75	4.9	80°	148.4		shear wall1	657.0	11380
615	09/04/2018	130753	7.5	5.0	83°	148.4		column 18	119.0	8970
615	09/04/2018	130754	7.5	5.0	83°	148.4		column 18	119.0	9310
615	09/04/2018	130755	7.5	5.0	83°	148.4		column 18	119.0	9370

Licensed Concrete Lab Director Name (please print)

Richard Hallman, P.E. 58487

Signature

Date

08-16-19

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

TR2

6 Test Report *Required prior to Sign-off. Use supplemental pages as needed. Attach Original Lab Test Reports*

Specified Test Age (days): 28

[illegible]

Date
08-16-19

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

Jamaica Crossing Mid Rise - Super Structure

TR2

Sheet number 6 of 9 sheets

6 Test Report Required prior to Sign-off. Use supplemental pages as needed. Attach Original Lab Test ReportsSpecified Concrete Str. (f_c):

PSI 6000

Specified Test Age (days): 28

Test Report Number	Date of Placement	Cylinder I.D.	Field Testing Results:					Placement Location	Total Placement	Breaking Strength
			Slump	Air Content	Temperature	Weight				
608	08/31/2018	130541	8.75 in	5.9 %	81° °F	145.6 lbs/ft ³		4th Fl curbs	8.0 yd ³	8250 PSI
608	08/31/2018	130542	8.75	5.9	81°	145.6		4th Fl curbs	8.0	8610
608	08/31/2018	130543	8.75	5.9	81°	145.6		4th Fl curbs	8.0	4800
650	09/14/2018	133752	9.0	6.0	78°	152.8		3rd Fl Slab	1206.0	9020
650	09/14/2018	133753	9.0	6.0	78°	152.8		3rd Fl Slab	1206.0	8850
650	09/14/2018	133754	9.0	6.0	78°	152.8		3rd Fl Slab	1206.0	8640
651	09/14/2018	130619	8.0	5.1	79°	151.2		column116	1206.0	9710
651	09/14/2018	130620	8.0	5.1	79°	151.2		column116	1206.0	8210
651	09/14/2018	130621	8.0	5.1	79°	151.2		column116	1206.0	10090
652	09/14/2018	133759	8.0	6.5	81°	153.4		column117	1206.0	8690
652	09/14/2018	133760	8.0	6.5	81°	153.4		column117	1206.0	8470
652	09/14/2018	133761	8.0	6.5	81°	153.4		column117	1206.0	8860
653	09/14/2018	130612	8.5	5.6	77°	149.8		3rd Fl Slab	1206.0	10090
653	09/14/2018	130613	8.5	5.6	77°	149.8		3rd Fl Slab	1206.0	9440
653	09/14/2018	130614	8.5	5.6	77°	149.8		3rd Fl Slab	1206.0	8850
654	09/15/2018	131745	9.5	6.0	79°	152.4		3rd Fl Slab	1206.0	8650
654	09/15/2018	131746	9.5	6.0	79°	152.4		3rd Fl Slab	1206.0	8720
654	09/15/2018	131747	9.5	6.0	79°	152.4		3rd Fl Slab	1206.0	8810
655	09/15/2018	133663	9.0	5.0	77°	150.4		column117	1206.0	9720
655	09/15/2018	133664	9.0	5.0	77°	150.4		column117	1206.0	10290
655	09/15/2018	133665	9.0	5.0	77°	150.4		column117	1206.0	10340
656	09/15/2018	131752	9.0	6.5	79°	152.6		1 Fl Stair A	1206.0	11000
656	09/15/2018	131753	9.0	6.5	79°	152.6		1 Fl Stair A	1206.0	10740
656	09/15/2018	131754	9.0	6.5	79°	152.6		1 Fl Stair A	1206.0	10920
657	09/15/2018	133670	8.75	5.2	78°	153.0		3rd Fl Slab	1206.0	8650
657	09/15/2018	133671	8.75	5.2	78°	153.0		3rd Fl Slab	1206.0	unknown
657	09/15/2018	133672	8.75	5.2	78°	153.0		3rd Fl Slab	1206.0	8260
658	09/15/2018	131760	9.0	6.0	80°	149.2		1 Fl Stair B	1206.0	9680
658	09/15/2018	131761	9.0	6.0	80°	149.2		1 Fl Stair B	1206.0	9600
658	09/15/2018	131762	9.0	6.0	80°	149.2		1 Fl Stair B	1206.0	10000

Licensed Concrete Test Technician (Name please print)

Richard H. Hagan, P.E.

Signature

Date

08-16-19

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

TR2

6 | Test Report Required prior to Sign-off. Use supplemental pages as needed. Attach Original Lab Test Reports

Specified Test Age (days): 28

			Field Testing Results:							
Test Report Number	Date of Placement	Cylinder I.D.	Slump	Air Content	Temperature	Weight	Placement Location	Total Placement	Breaking Strength	
659	09/15/2018	133691	7.25 in	4.9 %	78° °F	150.1 lbs/ft³	3rd FI Slab	1206. yd³	10120 PSI	
659	09/15/2018	133692	7.25	4.9	78°	150.1	3rd FI Slab	1206.0	10310	
659	09/15/2018	133693	7.25	4.9	78°	150.1	3rd FI Slab	1206.0	10240	
660	09/15/2018	131767	9.0	6.5	79°	152.0	column117	1206.0	10290	
660	09/15/2018	131768	9.0	6.5	79°	152.0	column117	1206.0	10080	
660	09/15/2018	131769	9.0	6.5	79°	152.0	column117	1206.0	10300	
661	09/15/2018	133687	7.75	5.3	77°	149.3	3rd FI Slab	1206.0	10330	
661	09/15/2018	133682	7.75	5.3	77°	149.3	3rd FI Slab	1206.0	10320	
661	09/15/2018	133683	7.75	5.3	77°	149.3	3rd FI Slab	1206.0	10660	
662	09/15/2018	131853	9.0	5.5	79°	152.4	3rd FI Slab	1206.0	11120	
662	09/15/2018	131854	9.0	5.5	79°	152.4	3rd FI Slab	1206.0	11200	
662	09/15/2018	131855	9.0	5.5	79°	152.4	3rd FI Slab	1206.0	10730	
663	09/15/2018	130627	7.5	4.9	76°	149.3	3rd FI Slab	1206.0	10660	
663	09/15/2018	130628	7.5	4.9	76°	149.3	3rd FI Slab	1206.0	10360	
663	09/15/2018	130629	7.5	4.9	76°	149.3	3rd FI Slab	1206.0	10610	
664	09/15/2018	131253	9.0	5.5	79°	146.4	3rd FI Slab	1206.0	10670	
664	09/15/2018	131254	9.0	5.5	79°	146.4	3rd FI Slab	1206.0	10850	
664	09/15/2018	131255	9.0	5.5	79°	146.4	3rd FI Slab	1206.0	10670	
665	09/15/2018	131047	7.75	4.7	77°	149.6	3rd FI Slab	1206.0	10660	
665	09/15/2018	131048	7.75	4.7	77°	149.6	3rd FI Slab	1206.0	10470	
665	09/15/2018	131049	7.75	4.7	77°	149.6	3rd FI Slab	1206.0	11070	
666	09/15/2018	131860	8.0	4.7	78°	149.0	3rd FI Slab	1206.0	9600	
666	09/15/2018	131861	8.0	4.7	78°	149.0	3rd FI Slab	1206.0	10120	
666	09/15/2018	131862	8.0	4.7	78°	149.0	3rd FI Slab	1206.0	8930	
667	09/15/2018	130634	8.0	5.0	76°	148.6	3rd FI Slab	1206.0	10110	
667	09/15/2018	130635	8.0	5.0	76°	148.6	3rd FI Slab	1206.0	9130	
667	09/15/2018	130636	8.0	5.0	76°	148.6	3rd FI Slab	1206.0	9510	
668	09/15/2018	131868	9.0	6.0	79°	149.8	3rd FI Slab	1206.0	9710	
668	09/15/2018	131869	9.0	6.0	79°	149.8	3rd FI Slab	1206.0	10270	
668	09/15/2018	131870	9.0	6.0	79°	148.6	3rd FI Slab	1206.0	10040	

Signature

Date
08-16-19

10/09

TR2

6 Test Report Required prior to Sign-off. Use supplemental pages as needed. Attach Original Lab Test Reports

Specified Test Age (days): 28

[illegible]

Date
08-16-19

10/09

TR2

Sheet number 9 of 9 sheets

7 Licensed Concrete Testing Laboratory's Certification of Completion *Required prior to Sign-off.*

- ☒ I certify that I have completed the testing specified herein and that the results reported in section 6 of this form are true and accurate in accordance with §28-406.3.2.

I am aware of the additional sanctions imposed on false filings by §28-211.1.2 of the Administrative Code.

- ☐ **Withdrawal of Applicant:** I am withdrawing responsibility for conducting the tests indicated herein and herewith submit the results or status of the work performed to date.

Name (please print)
Richard T. Hallahan

Signature

Date

08-16-19

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

8 Design Applicant's Statements and Signatures *Required prior to Sign-off. P.E./R.A. responsible for plans, choose one and sign/seal.*

- ☒ I certify I have reviewed the test results reported by the licensed concrete testing lab in section 6 above and found them to be in compliance with the approved construction documents.

- ☐ I certify I have reviewed the test results reported by the licensed concrete testing lab in section 6 above and found them to be in compliance with the approved construction documents except as noted in the attached report (BC 1905.6.3.3)

Note: design applicant's signed and sealed report must be attached to this document

Name (please print)

Signature

Date

1-13-2020

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

9 Concrete Producer's Statement and Signature *Required prior to Sign-off. Must be filled out by Owner of Production Facility.*

I certify that the test results reported in section 6 above were reported to me, and I further certify that the concrete delivered is in accordance with the design mix(es) specified on the TR3 submitted for the work specified in section 1 above.

Name (print)	Frank Scaccia	Title	V. President
Signature	[Signature]	Date	10-17-19
Business Name	City Transit Mix	NRMCA Expiration Date (BC 1905.8.2)	10-18-21
Business Address	104-17148 St	Business Telephone	718-523-1488
City	Jamaica	Business Fax:	
State	NY	Zip	11435

**CONCRETE TESTING LAB**

NYC LICENSE NO: 066

HAKS Material Testing Group

47 Hudson Street

Ossining NY

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SI-MT-C

Rev. 09/2013

REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	348
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01294127
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	61
HAKS Project #:	NL 2015-11-340A02	Date Cast:	05/23/18
Mix Class:	6000psi	Date Received:	05/24/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	74°F (ASTM C1064)
Air Content:	7.0%(ASTM C173)	Volume (YD³):	110.0yd³
Density (lbs/ft³):	144.8(ASTM C138)	Weather:	62°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
122142	4.00	12.57	05/30/18	7	92550	7360	3
122143	4.00	12.57	05/30/18	7	94880	7550	2
122144	4.00	12.57	06/20/18	28	105210	8370	2
122145	4.00	12.57	06/20/18	28	105190	8370	2
122146	4.00	12.57	06/20/18	28	103700	8250	2
122147	4.00	12.57	07/18/18	56	117120	9320	2
122148	4.00	12.57	07/18/18	56	118480	9430	2

Specific Location: Mid Rise Building:1st Floor slab starting west columns 106 and 107 to Eastern Perimeter.**Note(s):**

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 07/18/18



Submitted by: HAKS Engineers PC
Lab Director: Richard Hallahan, P.E.



CONCRETE TESTING LAB
NYC LICENSE NO: 066

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS

TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	349
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01294127
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	55
HAKS Project #:	NL 2015-11-340A02	Date Cast:	05/23/18
Mix Class:	6000psi	Date Received:	05/24/18
Slump: (In)	8.5"(ASTM C143)	Concrete Temp. (°F):	71°F (ASTM C1064)
Air Content:	6.6%(ASTM C173)	Volume (YD³):	110.0yd³
Density (lbs/ft³):	145.2(ASTM C138)	Weather:	62°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
122135	4.00	12.57	05/30/18	7	99350	7900	2
122136	4.00	12.57	05/30/18	7	96360	7670	1
122137	4.00	12.57	06/20/18	28	106910	8510	2
122138	4.00	12.57	06/20/18	28	110300	8770	3
122139	4.00	12.57	06/20/18	28	116900	9300	2
122140	4.00	12.57	07/18/18	56	124640	9920	2
122141	4.00	12.57	07/18/18	56	127120	10110	2

Specific Location: Mid Rise Building:1st Floor slab starting west columns 106 and 107 to Eastern Perimeter.

Note(s):

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 07/18/18



**CONCRETE TESTING LAB**

NYC LICENSE NO: 066

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	350
Client:	BRP	Cast By:	Johnny Zapata
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01294127
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	61
HAKS Project #:	NL 2015-11-340A02	Date Cast:	05/23/18
Mix Class:	6000psi	Date Received:	05/24/18
Slump: (In)	9.0"(ASTM C143)	Concrete Temp. (°F):	71°F (ASTM C1064)
Air Content:	6.8%(ASTM C173)	Volume (YD³):	110.0yd³
Density (lbs/ft³):	144.8(ASTM C138)	Weather:	62°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
122149	4.00	12.57	05/30/18	7	108340	8620	2
122150	4.00	12.57	05/30/18	7	116460	9260	3
122151	4.00	12.57	06/20/18	28	117820	9370	2
122152	4.00	12.57	06/20/18	28	117020	9310	3
122153	4.00	12.57	06/20/18	28	124850	9930	3
122154	4.00	12.57	07/18/18	56	132340	10530	2
122155	4.00	12.57	07/18/18	56	132660	10550	2

Specific Location: Mid Rise Building:1st Floor slab starting west columns 106 and 107 to Eastern Perimeter.**Note(s):**

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 07/18/18

Submitted by: HAKS Engineers PC
Lab Director: Richard Mahahan P.E.



**CONCRETE TESTING LAB**

NYC LICENSE NO: 066

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Rev. 09/2013

REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	565
Client:	BRP	Cast By:	Oluwafemi Obagbemiro
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398872
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	45
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/23/18
Mix Class:	6000psi	Date Received:	08/24/18
Slump: (In)	8.5" (ASTM C143)	Concrete Temp. (°F):	79°F (ASTM C1064)
Air Content:	4.7% (ASTM C173)	Volume (YD³):	99.0 yd³
Density (lbs/ft³):	145.1 (ASTM C138)	Weather:	79°F (Sunny)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
132182	4.00	12.57	08/30/18	7	79990	6360	3
132183	4.00	12.57	08/30/18	7	82310	6550	3
132184	4.00	12.57	09/20/18	28	112190	8930	3
132185	4.00	12.57	09/20/18	28	113280	9010	3
132186	4.00	12.57	09/20/18	28	110820	8820	3
132187	4.00	12.57	10/18/18	56	123070	9790	3
132188	4.00	12.57	10/18/18	56	116400	9260	3

Specific Location: Shear wall 2 & 3 supporting 2nd floor. Columns supporting 2nd floor.**Note(s):** Master Tag # 016291

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/18/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.





CONCRETE TESTING LAB
NYC LICENSE NO: 066

HAKS Material Testing Group

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Rev. 09/2013

REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	566
Client:	BRP	Cast By:	Oluwafemi Obagbemiro
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398872
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	65
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/23/18
Mix Class:	6000psi	Date Received:	08/24/18
Slump: (in)	8.75" (ASTM C143)	Concrete Temp. (°F):	79°F (ASTM C1064)
Air Content:	4.9% (ASTM C173)	Volume (YD³):	99.0 yd³
Density (lbs/ft³):	144.8 (ASTM C138)	Weather:	79°F (Sunny)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
132161	4.00	12.57	08/30/18	7	71750	5710	3
132162	4.00	12.57	08/30/18	7	71130	5660	2
132163	4.00	12.57	09/20/18	28	92260	7340	2
132164	4.00	12.57	09/20/18	28	98880	7870	3
132165	4.00	12.57	09/20/18	28	102420	8150	3
132166	4.00	12.57	10/18/18	56	88590	7050	2
132167	4.00	12.57	10/18/18	56	103010	8190	3

Specific Location: Shear wall 2 & 3 supporting 2nd floor. Columns supporting 2nd floor.

Note(s): Master Tag # 016290

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/18/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	582
Client:	BRP	Cast By:	Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	65
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/28/18
Mix Class:	6000psi	Date Received:	08/29/18
Slump: (in)	8.25" (ASTM C143)	Concrete Temp. (°F):	82°F (ASTM C1064)
Air Content:	6.0% (ASTM C173)	Volume (YD³):	657.0 yd³
Density (lbs/ft³):	147.0 (ASTM C138)	Weather:	82°F (Sunny)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
132153	4.00	12.57	09/04/18	7	86900	6910	2
132154	4.00	12.57	09/04/18	7	86500	6880	3
132155	4.00	12.57	09/25/18	28	119560	9510	3
132156	4.00	12.57	09/25/18	28	118220	9400	2
132157	4.00	12.57	09/25/18	28	105930	8430	3
132158	4.00	12.57	10/23/18	56	124010	9870	3
132159	4.00	12.57	10/23/18	56	113190	9000	3

Specific Location: Shear wall 1 and Columns supporting 2nd Floor. Second Floor slab.**Note(s):** Master Tag # 015498

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/23/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	583
Client:	BRP	Cast By:	Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	53
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/28/18
Mix Class:	6000psi	Date Received:	08/29/18
Slump: (In)	8.5" (ASTM C143)	Concrete Temp. (°F):	83°F (ASTM C1064)
Air Content:	5.8% (ASTM C173)	Volume (YD³):	657.0 yd³
Density (lbs/ft³):	147.4 (ASTM C138)	Weather:	82°F (Sunny)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
132146	4.00	12.57	09/04/18	7	85630	6810	3
132147	4.00	12.57	09/04/18	7	91450	7280	3
132148	4.00	12.57	09/25/18	28	114210	9090	3
132149	4.00	12.57	09/25/18	28	107820	8580	2
132150	4.00	12.57	09/25/18	28	124610	9910	3
132151	4.00	12.57	10/23/18	56	94310	7500	3
132152	4.00	12.57	10/23/18	56	114470	9110	2

Specific Location: Shear wall 1 and Columns supporting 2nd Floor. Second Floor slab.**Note(s):** Master Tag # 015497

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/23/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.





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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	584
Client:	BRP	Cast By:	Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	52
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/28/18
Mix Class:	6000psi	Date Received:	08/29/18
Slump: (In)	7.75" (ASTM C143)	Concrete Temp. (°F):	80°F (ASTM C1064)
Air Content:	6.2% (ASTM C173)	Volume (YD³):	657.0 yd³
Density (lbs/ft³):	145.8(ASTM C138)	Weather:	82°F (Sunny)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
132138	4.00	12.57	09/04/18	7	85760	6820	2
132139	4.00	12.57	09/04/18	7	96600	7680	3
132140	4.00	12.57	09/25/18	28	108720	8650	2
132141	4.00	12.57	09/25/18	28	119340	9490	3
132142	4.00	12.57	09/25/18	28	116500	9270	3
132143	4.00	12.57	10/23/18	56	116570	9270	3
132144	4.00	12.57	10/23/18	56	95690	7610	2

Specific Location: Shear wall 1 and Columns supporting 2nd Floor. Second Floor slab.

Note(s): Master Tag # 015495

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/23/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.





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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	585
Client:	BRP	Cast By:	Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	45
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/28/18
Mix Class:	6000psi	Date Received:	08/29/18
Slump: (In)	8.0" (ASTM C143)	Concrete Temp. (°F):	81°F (ASTM C1064)
Air Content:	5.7% (ASTM C173)	Volume (YD³):	657.0 yd³
Density (lbs/ft³):	147.8(ASTM C138)	Weather:	82°F (Sunny)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133131	4.00	12.57	09/04/18	7	89620	7130	3
133132	4.00	12.57	09/04/18	7	96120	7650	3
133133	4.00	12.57	09/25/18	28	113920	9060	2
133134	4.00	12.57	09/25/18	28	109080	8680	3
133135	4.00	12.57	09/25/18	28	115120	9160	3
133136	4.00	12.57	10/23/18	56	113380	9020	2
133137	4.00	12.57	10/23/18	56	109960	8750	3

Specific Location: Shear wall 1 and Columns supporting 2nd Floor. Second Floor slab.

Note(s): Master Tag # 015494

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/23/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	586
Client:	BRP	Cast By:	Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	61
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/28/18
Mix Class:	6000psi	Date Received:	08/29/18
Slump: (In)	9.0" (ASTM C143)	Concrete Temp. (°F):	82°F (ASTM C1064)
Air Content:	5.8% (ASTM C173)	Volume (YD³):	657.0 yd³
Density (lbs/ft³):	147.4 (ASTM C138)	Weather:	82°F (Sunny)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
132226	4.00	12.57	09/04/18	7	73190	5820	3
132227	4.00	12.57	09/04/18	7	78150	6220	3
132228	4.00	12.57	09/25/18	28	100070	7960	2
132229	4.00	12.57	09/25/18	28	102210	8130	2
132230	4.00	12.57	09/25/18	28	98860	7860	3
132231	4.00	12.57	10/23/18	56	94750	7540	2
132232	4.00	12.57	10/23/18	56	89860	7150	2

Specific Location: Shear wall 1 and Columns supporting 2nd Floor. Second Floor slab.**Note(s):** Master Tag # 015490

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/23/18





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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	587
Client:	BRP	Cast By:	Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	58
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/28/18
Mix Class:	6000psi	Date Received:	08/29/18
Slump: (In)	8.0" (ASTM C143)	Concrete Temp. (°F):	82°F (ASTM C1064)
Air Content:	5.7% (ASTM C173)	Volume (YD³):	657.0 yd³
Density (lbs/ft³):	148.0 (ASTM C138)	Weather:	82°F (Sunny)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
132219	4.00	12.57	09/04/18	7	82150	6540	2
132220	4.00	12.57	09/04/18	7	83100	6610	3
132221	4.00	12.57	09/25/18	28	106650	8480	3
132222	4.00	12.57	09/25/18	28	106050	8440	3
132223	4.00	12.57	09/25/18	28	102230	8130	3
132224	4.00	12.57	10/23/18	56	111160	8840	2
132225	4.00	12.57	10/23/18	56	105500	8390	2

Specific Location: Shear wall 1 and Columns supporting 2nd Floor. Second Floor slab.

Note(s): Master Tag # 015491

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/23/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	588
Client:	BRP	Cast By:	Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	42
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/28/18
Mix Class:	6000psi	Date Received:	08/29/18
Slump: (in)	8.5" (ASTM C143)	Concrete Temp. (°F):	80°F (ASTM C1064)
Air Content:	5.6% (ASTM C173)	Volume (YD³):	657.0 yd³
Density (lbs/ft³):	148.8 (ASTM C138)	Weather:	82°F (Sunny)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
132234	4.00	12.57	09/04/18	7	87750	6980	3
132235	4.00	12.57	09/04/18	7	84910	6750	2
132236	4.00	12.57	09/25/18	28	103680	8250	3
132237	4.00	12.57	09/25/18	28	110240	8770	2
132238	4.00	12.57	09/25/18	28	106250	8450	3
132239	4.00	12.57	10/23/18	56	108980	8670	3
132240	4.00	12.57	10/23/18	56	105090	8360	3

Specific Location: Shear wall 1 and Columns supporting 2nd Floor. Second Floor slab.**Note(s):** Master Tag # 015492

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/23/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	589
Client:	BRP	Cast By:	Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	57
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/28/18
Mix Class:	6000psi	Date Received:	08/29/18
Slump: (In)	9.0" (ASTM C143)	Concrete Temp. (°F):	76°F (ASTM C1064)
Air Content:	5.9% (ASTM C173)	Volume (YD³):	657.0 yd³
Density (lbs/ft³):	146.5(ASTM C138)	Weather:	82°F (Sunny)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
132242	4.00	12.57	09/04/18	7	78620	6250	2
132243	4.00	12.57	09/04/18	7	82070	6530	3
132244	4.00	12.57	09/25/18	28	103820	8260	3
132245	4.00	12.57	09/25/18	28	110410	8780	2
132246	4.00	12.57	09/25/18	28	107090	8520	3
132247	4.00	12.57	10/23/18	56	103720	8250	2
132248	4.00	12.57	10/23/18	56	98190	7810	2

Specific Location: Shear wall 1 and Columns supporting 2nd Floor. Second Floor slab.**Note(s):** Master Tag # 015493

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/23/18



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TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	590
Client:	BRP	Cast By:	Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	49
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/28/18
Mix Class:	6000psi	Date Received:	08/29/18
Slump: (In)	8.75" (ASTM C143)	Concrete Temp. (°F):	78°F (ASTM C1064)
Air Content:	6.0% (ASTM C173)	Volume (YD³):	657.0 yd³
Density (lbs/ft³):	147.4 (ASTM C138)	Weather:	82°F (Sunny)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
130451	4.00	12.57	09/04/18	7	84950	6760	3
130452	4.00	12.57	09/04/18	7	83330	6630	2
130453	4.00	12.57	09/25/18	28	104330	8300	2
130454	4.00	12.57	09/25/18	28	101350	8060	2
130455	4.00	12.57	09/25/18	28	103680	8250	3
130456	4.00	12.57	10/23/18	56	108810	8660	2
130457	4.00	12.57	10/23/18	56	109330	8700	3

Specific Location: Shear wall 1 and Columns supporting 2nd Floor. Second Floor slab.**Note(s):** Master Tag # 015488

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/23/18





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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	591
Client:	BRP	Cast By:	Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	62
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/28/18
Mix Class:	6000psi	Date Received:	08/29/18
Slump: (In)	8.5" (ASTM C143)	Concrete Temp. (°F):	78°F (ASTM C1064)
Air Content:	6.0% (ASTM C173)	Volume (YD³):	657.0 yd³
Density (lbs/ft³):	148.9(ASTM C138)	Weather:	82°F (Sunny)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
130465	4.00	12.57	09/04/18	7	79250	6300	2
130466	4.00	12.57	09/04/18	7	76150	6060	2
130467	4.00	12.57	09/25/18	28	94520	7520	3
130468	4.00	12.57	09/25/18	28	99670	7930	2
130469	4.00	12.57	09/25/18	28	101100	8040	2
130470	4.00	12.57	10/23/18	56	102280	8140	3
130471	4.00	12.57	10/23/18	56	95280	7580	2

Specific Location: Shear wall 1 and Columns supporting 2nd Floor. Second Floor slab.

Note(s): Master Tag # 015489

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/23/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.





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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	592
Client:	BRP	Cast By:	Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	51
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/28/18
Mix Class:	6000psi	Date Received:	08/29/18
Slump: (in)	9.0" (ASTM C143)	Concrete Temp. (°F):	79°F (ASTM C1064)
Air Content:	4.9% (ASTM C173)	Volume (YD³):	657.0 yd³
Density (lbs/ft³):	148.6(ASTM C138)	Weather:	82°F (Sunny)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
130473	4.00	12.57	09/04/18	7	80560	6410	2
130474	4.00	12.57	09/04/18	7	81790	6510	2
130475	4.00	12.57	09/25/18	28	98400	7830	3
130476	4.00	12.57	09/25/18	28	103990	8270	2
130477	4.00	12.57	09/25/18	28	102620	8160	2
130478	4.00	12.57	10/23/18	56	111160	8840	2
130479	4.00	12.57	10/23/18	56	108580	8640	2

Specific Location: Shear wall 1 and Columns supporting 2nd Floor. Second Floor slab.

Note(s): Master Tag # 015486

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/23/18





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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	593
Client:	BRP	Cast By:	Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	47
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/28/18
Mix Class:	6000psi	Date Received:	08/29/18
Slump: (In)	9.0" (ASTM C143)	Concrete Temp. (°F):	78°F (ASTM C1064)
Air Content:	6.0% (ASTM C173)	Volume (YD³):	657.0 yd³
Density (lbs/ft³):	146.5(ASTM C138)	Weather:	82°F (Sunny)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
130480	4.00	12.57	09/04/18	7	81710	6500	3
130481	4.00	12.57	09/04/18	7	78000	6210	3
130482	4.00	12.57	09/25/18	28	105250	8370	3
130483	4.00	12.57	09/25/18	28	100000	7960	2
130484	4.00	12.57	09/25/18	28	103070	8200	3
130485	4.00	12.57	10/23/18	56	111290	8850	2
130486	4.00	12.57	10/23/18	56	107480	8550	3

Specific Location: Shear wall 1 and Columns supporting 2nd Floor. Second Floor slab.

Note(s): Master Tag # 015487

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/23/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	594
Client:	BRP	Cast By:	Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	46
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/28/18
Mix Class:	6000psi	Date Received:	08/29/18
Slump: (In)	8.75" (ASTM C143)	Concrete Temp. (°F):	80°F (ASTM C1064)
Air Content:	5.6% (ASTM C173)	Volume (YD³):	657.0 yd³
Density (lbs/ft³):	147.0(ASTM C138)	Weather:	82°F (Sunny)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
130458	4.00	12.57	09/04/18	7	95640	7610	3
130459	4.00	12.57	09/04/18	7	97950	7790	2
130460	4.00	12.57	09/25/18	28	111600	8880	2
130461	4.00	12.57	09/25/18	28	115200	9160	2
130462	4.00	12.57	09/25/18	28	116630	9280	2
130463	4.00	12.57	10/23/18	56	109410	8700	3
130464	4.00	12.57	10/23/18	56	116660	9280	3

Specific Location: Shear wall 1 and Columns supporting 2nd Floor. Second Floor slab.**Note(s):** Master Tag # 015485

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 09/25/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.





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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	595
Client:	BRP	Cast By:	Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	47
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/28/18
Mix Class:	6000psi	Date Received:	08/29/18
Slump: (In)	8.75" (ASTM C143)	Concrete Temp. (°F):	80°F (ASTM C1064)
Air Content:	4.9% (ASTM C173)	Volume (YD³):	657.0 yd³
Density (lbs/ft³):	148.4 (ASTM C138)	Weather:	82°F (Sunny)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
130488	4.00	12.57	09/04/18	7	94770	7540	2
130489	4.00	12.57	09/04/18	7	92570	7360	2
130490	4.00	12.57	09/25/18	28	141780	11280	3
130491	4.00	12.57	09/25/18	28	131940	10500	3
130492	4.00	12.57	09/25/18	28	143060	11380	3
130493	4.00	12.57	10/23/18	56	118000	9390	3
130494	4.00	12.57	10/23/18	56	118430	9420	3

Specific Location: Shear wall 1 and Columns supporting 2nd Floor. Second Floor slab.

Note(s): Master Tag # 016708

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/23/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS

TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	615
Client:	BRP	Cast By:	Oluwafemi Obagbemiro
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398872
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	58
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/04/18
Mix Class:	6000psi	Date Received:	09/05/18
Slump: (In)	7.5" (ASTM C143)	Concrete Temp. (°F):	83°F (ASTM C1064)
Air Content:	5.0% (ASTM C173)	Volume (YD³):	119.0yd³
Density (lbs/ft³):	148.4(ASTM C138)	Weather:	92°F (Cloudy)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
130751	4.00	12.57	09/11/18	7	96350	7670	3
130752	4.00	12.57	09/11/18	7	89370	7110	2
130753	4.00	12.57	10/02/18	28	112770	8970	3
130754	4.00	12.57	10/02/18	28	117010	9310	3
130755	4.00	12.57	10/02/18	28	117780	9370	3
130756	4.00	12.57	10/30/18	56	125210	9960	2
130757	4.00	12.57	10/30/18	56	123870	9850	2

Specific Location: Columns 109-111, 116,117,118,106 Supporting 3rd Floor. Shear Walls #2,3,5 Supporting 2nd Floor.

Note(s): Master Tag # 016661

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/30/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	616
Client:	BRP	Cast By:	Oluwafemi Obagbemiro
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398872
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	58
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/04/18
Mix Class:	6000psi	Date Received:	09/05/18
Slump: (in)	7.0" (ASTM C143)	Concrete Temp. (°F):	80°F (ASTM C1064)
Air Content:	4.9% (ASTM C173)	Volume (YD³):	119.0yd³
Density (lbs/ft³):	148.0(ASTM C138)	Weather:	92°F (Cloudy)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
130758	4.00	12.57	09/11/18	7	93240	7420	3
130759	4.00	12.57	09/11/18	7	90040	7160	3
130760	4.00	12.57	10/02/18	28	107520	8550	3
130761	4.00	12.57	10/02/18	28	123140	9800	3
130762	4.00	12.57	10/02/18	28	119820	9530	3
130763	4.00	12.57	10/30/18	56	125690	10000	2
130764	4.00	12.57	10/30/18	56	125590	9990	3

Specific Location: Columns 109-111, 116,117,118,106 Supporting 3rd Floor. Shear Walls #2,3,5 Supporting 2nd Floor.

Note(s): Master Tag # 016662

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/30/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	617
Client:	BRP	Cast By:	Oluwafemi Obagbemiro
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398872
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	58
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/04/18
Mix Class:	6000psi	Date Received:	09/05/18
Slump: (in)	8.5" (ASTM C143)	Concrete Temp. (°F):	84°F (ASTM C1064)
Air Content:	4.7% (ASTM C173)	Volume (YD³):	119.0yd³
Density (lbs/ft³):	144.6(ASTM C138)	Weather:	92°F (Cloudy)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
130765	4.00	12.57	09/11/18	7	80630	6410	3
130766	4.00	12.57	09/11/18	7	84900	6750	3
130767	4.00	12.57	10/02/18	28	103410	8230	2
130768	4.00	12.57	10/02/18	28	112260	8930	2
130769	4.00	12.57	10/02/18	28	111290	8850	2
130770	4.00	12.57	10/30/18	56	117350	9340	3
130771	4.00	12.57	10/30/18	56	120330	9570	2

Specific Location: Columns 109-111, 116,117,118,106 Supporting 3rd Floor. Shear Walls #2,3,5 Supporting 2nd Floor.

Note(s): Master Tag # 016697

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/30/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #: 66 **Report #:** 630
Client: BRP **Cast By:** Vladimir Pustovit
Project Name: Jamaica Crossing - Mid Rise **Inspectors ACI #:** 01136709
Project Address: 148-10 Archer Avenue, Queens, NY **Truck #:** 53
HAKS Project #: NL 2015-11-340A02 **Date Cast:** 09/07/18
Mix Class: 6000psi **Date Received:** 09/08/18
Slump: (in) 8.5" (ASTM C143) **Concrete Temp. (°F):** 85°F (ASTM C1064)
Air Content: 4.5% (ASTM C173) **Volume (YD³):** 88.0yd³
Density (lbs/ft³): 150.2(ASTM C138) **Weather:** 75°F (Cloudy)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
131708	4.00	12.57	09/14/18	7	95690	7610	3
131709	4.00	12.57	09/14/18	7	96405	7670	2
131710	4.00	12.57	10/05/18	28	130460	10380	3
131711	4.00	12.57	10/05/18	28	121230	9640	3
131712	4.00	12.57	10/05/18	28	129290	10290	3
131713	4.00	12.57	11/02/18	56	121860	9690	3
131715	4.00	12.57	11/02/18	56	118300	9410	2

Specific Location: Shear wall CC#1. Column# 102-105, 7-108, 113-115.

Note(s):

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 11/02/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	631
Client:	BRP	Cast By:	Vladimir Pustovit
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01136709
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	52
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/07/18
Mix Class:	6000psi	Date Received:	09/08/18
Slump: (in)	9.0" (ASTM C143)	Concrete Temp. (°F):	82°F (ASTM C1064)
Air Content:	4.0% (ASTM C173)	Volume (YD³):	88.0yd³
Density (lbs/ft³):	150.6(ASTM C138)	Weather:	75°F (Cloudy)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
131584	4.00	12.57	09/14/18	7	98115	7810	3
131585	4.00	12.57	09/14/18	7	96105	7650	3
131586	4.00	12.57	10/05/18	28	125330	9970	3
131587	4.00	12.57	10/05/18	28	123890	9860	2
131588	4.00	12.57	10/05/18	28	127210	10120	2
131589	4.00	12.57	11/02/18	56	133570	10630	3
131590	4.00	12.57	11/02/18	56	137710	10960	3

Specific Location: Shear wall CC#1. Column# 102-105, 7-108, 113-115.

Note(s):

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 11/02/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	693
Client:	BRP	Cast By:	Oluwafemi Obagbmeiro
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398872
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	46
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/24/18
Mix Class:	6000psi	Date Received:	09/26/18
Slump: (In)	6.0" (ASTM C143)	Concrete Temp. (°F):	76°F (ASTM C1064)
Air Content:	4.5% (ASTM C173)	Volume (YD³):	18.0yd³
Density (lbs/ft³):	151.8(ASTM C138)	Weather:	64°F Cloudy

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
131286	4.00	12.57	10/01/18	7	111530	8870	2
131287	4.00	12.57	10/01/18	7	110430	8790	3
131288	4.00	12.57	10/22/18	28	117030	9310	2
131289	4.00	12.57	10/22/18	28	129510	10300	2
131290	4.00	12.57	10/22/18	28	149090	11860	3
131291	4.00	12.57	11/19/18	56	150160	11950	3
131292	4.00	12.57	11/19/18	56	146200	11630	3

Specific Location: Stair F- 1st - 2nd Floor. Stair A- 2nd - 3rd Floor. Cellar stair rises at west corridor**Note(s):** Master Tag # 016113**Lab Technician:** Muhammad Waqas
ACI Certification #: 01256162
Date: 11/19/18Submitted by HAKS Engineers PC
Lab Director: Ronald Hallahan P.E.

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**REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	608
Client:	BRP	Cast By:	Ifeoma Bellinger / Oluwafemi Obagbemiro
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398865 / 01398872
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	53
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/31/18
Mix Class:	6000psi	Date Received:	09/01/18
Slump: (In)	8.75" (ASTM C143)	Concrete Temp. (°F):	81°F (ASTM C1064)
Air Content:	5.9% (ASTM C173)	Volume (YD³):	8.0 yd³
Density (lbs/ft³):	145.6(ASTM C138)	Weather:	74°F (Cloudy)

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
130537	4.00	12.57	09/02/18	2	67180	5340	2
130538	4.00	12.57	09/02/18	2	66910	5320	3
130539	4.00	12.57	09/07/18	7	90280	7180	2
130540	4.00	12.57	09/07/18	7	87115	6930	3
130541	4.00	12.57	09/28/18	28	103700	8250	3
130542	4.00	12.57	09/28/18	28	108170	8610	2
130543	4.00	12.57	09/28/18	28	60300	4800	2
130544	4.00	12.57	10/26/18	56	118630	9440	3
130545	4.00	12.57	10/26/18	56	117590	9350	3

Specific Location:

4th Floor concrete curbs.

Note(s):

Master Tag # 015464

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 10/26/18





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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	650
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	60
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/14/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	9.0" (ASTM C143)	Concrete Temp. (°F):	78°F (ASTM C1064)
Air Content:	6.0% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	152.8(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (In.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133750	4.00	12.57	09/21/18	7	95740	7620	2
133751	4.00	12.57	09/21/18	7	91660	7290	3
133752	4.00	12.57	10/12/18	28	113430	9020	3
133753	4.00	12.57	10/12/18	28	111260	8850	3
133754	4.00	12.57	10/12/18	28	108570	8640	2
133755	4.00	12.57	11/09/18	56	118220	9400	3
133756	4.00	12.57	11/09/18	56	103990	8270	2

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 015402

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 11/09/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	651
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	62
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/14/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	8.0" (ASTM C143)	Concrete Temp. (°F):	79°F (ASTM C1064)
Air Content:	5.1% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	151.2 (ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (In.)	Area of the Cylinder (sq. In.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
130617	4.00	12.57	09/21/18	7	112120	8920	3
130618	4.00	12.57	09/21/18	7	102860	8180	3
130619	4.00	12.57	10/12/18	28	122040	9710	2
130620	4.00	12.57	10/12/18	28	103160	8210	3
130621	4.00	12.57	10/12/18	28	126820	10090	3
130622	4.00	12.57	11/09/18	56	140030	11140	3
130623	4.00	12.57	11/09/18	56	128430	10220	3

Specific Location: 3rd Floor Slab, Stair A and B first to second floor, Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 015260

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 11/09/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	652
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	58
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/14/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	8.0" (ASTM C143)	Concrete Temp. (°F):	81°F (ASTM C1064)
Air Content:	6.5% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	153.4(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (In.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133757	4.00	12.57	09/21/18	7	94270	7500	3
133758	4.00	12.57	09/21/18	7	100860	8020	3
133759	4.00	12.57	10/12/18	28	109200	8690	3
133760	4.00	12.57	10/12/18	28	106500	8470	3
133761	4.00	12.57	10/12/18	28	111420	8860	3
133762	4.00	12.57	11/09/18	56	117570	9350	3
133763	4.00	12.57	11/09/18	56	113310	9010	2

Specific Location: 3rd Floor Slab, Stair A and B first to second floor. Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 015450

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 11/09/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	653
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	61
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/14/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	8.5" (ASTM C143)	Concrete Temp. (°F):	77°F (ASTM C1064)
Air Content:	5.6% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	149.8(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
130610	4.00	12.57	09/21/18	7	101070	8040	3
130611	4.00	12.57	09/21/18	7	95200	7570	3
130612	4.00	12.57	10/12/18	28	126780	10090	3
130613	4.00	12.57	10/12/18	28	118600	9440	3
130614	4.00	12.57	10/12/18	28	111220	8850	2
130615	4.00	12.57	11/09/18	56	129510	0	3
130616	4.00	12.57	11/09/18	56	123980	0	3

Specific Location: 3rd Floor Slab, Stair A and B first to second floor, Curb at East side of High Rise Building on the ground floor between Columns 116 and 117.

Note(s): Master Tag # 015259

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 11/09/18

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	654
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	62
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/15/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	9.5" (ASTM C143)	Concrete Temp. (°F):	79°F (ASTM C1064)
Air Content:	6.0% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	152.4(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
131743	4.00	12.57	09/24/18	9	96360	7670	3
131744	4.00	12.57	09/24/18	9	95670	7610	2
131745	4.00	12.57	10/13/18	28	108690	8650	3
131746	4.00	12.57	10/13/18	28	109570	8720	2
131747	4.00	12.57	10/13/18	28	110720	8810	2
131748	4.00	12.57	11/12/18	58	107160	8530	3
131749	4.00	12.57	11/12/18	58	110750	8810	2

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 015403

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 11/12/18

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	655
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	45
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/15/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	9.0" (ASTM C143)	Concrete Temp. (°F):	77°F (ASTM C1064)
Air Content:	5.0% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	150.4(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (In.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133661	4.00	12.57	09/24/18	9	97805	7780	2
133662	4.00	12.57	09/24/18	9	99450	7910	3
133663	4.00	12.57	10/13/18	28	122180	9720	3
133664	4.00	12.57	10/13/18	28	129315	10290	3
133665	4.00	12.57	10/13/18	28	129920	10340	3
133666	4.00	12.57	11/12/18	58	110960	8830	3
133667	4.00	12.57	11/12/18	58	127790	10170	2

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 015257

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 11/12/18

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	656
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	53
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/15/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	9.0" (ASTM C143)	Concrete Temp. (°F):	79°F (ASTM C1064)
Air Content:	6.5% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	152.6(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
131749	4.00	12.57	09/24/18	9	122670	9760	2
131750	4.00	12.57	09/24/18	9	126410	10060	3
131752	4.00	12.57	10/13/18	28	138290	11000	3
131753	4.00	12.57	10/13/18	28	135060	10740	2
131754	4.00	12.57	10/13/18	28	137270	10920	3
131755	4.00	12.57	11/12/18	58	140780	11200	3
131756	4.00	12.57	11/12/18	58	136470	10860	3

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground floor between Columns 116 and 117.

Note(s): Master Tag # 015404

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 11/12/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	657
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	49
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/15/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	8.75" (ASTM C143)	Concrete Temp. (°F):	78°F (ASTM C1064)
Air Content:	5.2% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	153.0(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (In.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133668	4.00	12.57	09/24/18	9	96145	7650	3
133669	4.00	12.57	09/24/18	9	94840	7540	3
133670	4.00	12.57	10/13/18	28	108690	8650	3
133671	4.00	12.57	10/13/18	28	Damaged	#VALUE!	0
133672	4.00	12.57	10/13/18	28	103770	8260	3
133673	4.00	12.57	11/12/18	58	109290	8690	3
133674	4.00	12.57	11/12/18	58	123830	9850	3

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground floor between Columns 116 and 117.

Note(s): Master Tag # 015258

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 11/12/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	658
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	45
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/15/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	9.0" (ASTM C143)	Concrete Temp. (°F):	80°F (ASTM C1064)
Air Content:	6.0% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	149.2(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
131757	4.00	12.57	09/24/18	9	107495	8550	3
131759	4.00	12.57	09/24/18	9	108100	8600	2
131760	4.00	12.57	10/13/18	28	121625	9680	2
131761	4.00	12.57	10/13/18	28	120630	9600	3
131762	4.00	12.57	10/13/18	28	125650	10000	2
131763	4.00	12.57	11/12/18	58	125480	9980	2
131764	4.00	12.57	11/12/18	58	138120	10990	3

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 015405

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 11/12/18



Submitted by: HAKS Engineers PC
Lab Director: Richard T. Hallahan

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	659
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	55
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/15/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (in)	7.25" (ASTM C143)	Concrete Temp. (°F):	78°F (ASTM C1064)
Air Content:	4.9% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	150.1 (ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133689	4.00	12.57	09/24/18	9	106440	8470	3
133690	4.00	12.57	09/24/18	9	114380	9100	3
133691	4.00	12.57	10/13/18	28	127225	10120	3
133692	4.00	12.57	10/13/18	28	129600	10310	3
133693	4.00	12.57	10/13/18	28	128725	10240	3
133694	4.00	12.57	11/12/18	58	128710	10240	3
133695	4.00	12.57	11/12/18	58	135750	10800	3

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 015256

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 11/12/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	660
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	46
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/15/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	9.0" (ASTM C143)	Concrete Temp. (°F):	79°F (ASTM C1064)
Air Content:	6.5% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	152.0(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
131765	4.00	12.57	09/24/18	9	110390	8780	3
131766	4.00	12.57	09/24/18	9	107830	8580	2
131767	4.00	12.57	10/13/18	28	129300	10290	2
131768	4.00	12.57	10/13/18	28	126710	10080	3
131769	4.00	12.57	10/13/18	28	129515	10300	2
131770	4.00	12.57	11/12/18	58	150590	11980	3
131771	4.00	12.57	11/12/18	58	135090	10750	3

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 015406

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 11/12/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	661
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	57
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/15/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	7.75" (ASTM C143)	Concrete Temp. (°F):	77°F (ASTM C1064)
Air Content:	5.3% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	149.3(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (In.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133684	4.00	12.57	09/24/18	9	115140	9160	3
133686	4.00	12.57	09/24/18	9	112265	8930	3
133687	4.00	12.57	10/13/18	28	129860	10330	3
133682	4.00	12.57	10/13/18	28	129730	10320	2
133683	4.00	12.57	10/13/18	28	134010	10660	3
133688	4.00	12.57	11/12/18	58	129340	10290	3
133685	4.00	12.57	11/12/18	58	134730	10720	3

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 015255

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 11/12/18

Submitted by: HAKS Engineers PC
Lab Director: R. J. Hallahan, E.

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**REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	662
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	55
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/15/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	9.0" (ASTM C143)	Concrete Temp. (°F):	79°F (ASTM C1064)
Air Content:	5.5% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	152.4(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
131851	4.00	12.57	09/24/18	9	113615	9040	3
131852	4.00	12.57	09/24/18	9	99905	7950	3
131853	4.00	12.57	10/13/18	28	139770	11120	2
131854	4.00	12.57	10/13/18	28	140800	11200	3
131855	4.00	12.57	10/13/18	28	134930	10730	2
131856	4.00	12.57	11/12/18	58	140170	11150	3
131857	4.00	12.57	11/12/18	58	143810	11440	3

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 015407

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 11/12/18

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	663
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	54
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/15/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	7.5" (ASTM C143)	Concrete Temp. (°F):	76°F (ASTM C1064)
Air Content:	4.9% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	149.3(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
130624	4.00	12.57	09/24/18	9	101170	8050	2
130625	4.00	12.57	09/24/18	9	101630	8090	3
130627	4.00	12.57	10/13/18	28	134055	10660	3
130628	4.00	12.57	10/13/18	28	130225	10360	2
130629	4.00	12.57	10/13/18	28	133330	10610	3
130630	4.00	12.57	11/12/18	58	131570	10470	3
130631	4.00	12.57	11/12/18	58	126700	10080	3

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 015279

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 11/12/18

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	664
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	61
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/15/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	9.0" (ASTM C143)	Concrete Temp. (°F):	79°F (ASTM C1064)
Air Content:	5.5% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	146.4(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
131251	4.00	12.57	09/24/18	9	96930	7710	3
131252	4.00	12.57	09/24/18	9	108030	8590	2
131253	4.00	12.57	10/13/18	28	134120	10670	3
131254	4.00	12.57	10/13/18	28	136410	10850	2
131255	4.00	12.57	10/13/18	28	134075	10670	3
131256	4.00	12.57	11/12/18	58	134060	10670	3
131257	4.00	12.57	11/12/18	58	132080	10510	2

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 015408

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 10/13/18

Submitted by: HAKS Engineers PC
Lab Director: R. M. M. Ali, P.E.

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	665
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	55
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/15/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	7.75" (ASTM C143)	Concrete Temp. (°F):	77°F (ASTM C1064)
Air Content:	4.7% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	149.6(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
131045	4.00	12.57	09/24/18	9	104110	8280	3
131046	4.00	12.57	09/24/18	9	101510	8080	3
131047	4.00	12.57	10/13/18	28	134020	10660	3
131048	4.00	12.57	10/13/18	28	131670	10470	2
131049	4.00	12.57	10/13/18	28	139210	11070	2
131050	4.00	12.57	11/12/18	58	137210	10920	3
131051	4.00	12.57	11/12/18	58	104610	8320	2

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 016764

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 11/12/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	666
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	60
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/15/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	8.0" (ASTM C143)	Concrete Temp. (°F):	78°F (ASTM C1064)
Air Content:	4.7% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	149.0(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
131858	4.00	12.57	09/24/18	9	96530	7680	3
131859	4.00	12.57	09/24/18	9	98605	7840	3
131860	4.00	12.57	10/13/18	28	120640	9600	2
131861	4.00	12.57	10/13/18	28	127205	10120	3
131862	4.00	12.57	10/13/18	28	112200	8930	3
131863	4.00	12.57	11/12/18	58	104610	8320	2
131864	4.00	12.57	11/12/18	58	127570	10150	2

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 015409

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 11/12/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan, P.E.

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	667
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	54
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/15/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	8.0" (ASTM C143)	Concrete Temp. (°F):	76°F (ASTM C1064)
Air Content:	5.0% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	148.6(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (In.)	Area of the Cylinder (sq. In.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
130632	4.00	12.57	09/24/18	9	107070	8520	3
130633	4.00	12.57	09/24/18	9	99645	7930	2
130634	4.00	12.57	10/13/18	28	127100	10110	3
130635	4.00	12.57	10/13/18	28	114750	9130	3
130636	4.00	12.57	10/13/18	28	119590	9510	2
130637	4.00	12.57	11/12/18	58	127930	10180	3
130638	4.00	12.57	11/12/18	58	121810	9690	3

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 015278

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 11/12/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	668
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	55
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/15/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	9.0" (ASTM C143)	Concrete Temp. (°F):	79°F (ASTM C1064)
Air Content:	6.0% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	149.6(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (In.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
131866	4.00	12.57	09/24/18	9	104310	8300	3
131867	4.00	12.57	09/24/18	9	105190	8370	2
131868	4.00	12.57	10/13/18	28	122055	9710	2
131869	4.00	12.57	10/13/18	28	129115	10270	3
131870	4.00	12.57	10/13/18	28	126160	10040	2
131871	4.00	12.57	11/12/18	58	137740	10960	3
131872	4.00	12.57	11/12/18	58	131490	10460	3

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 015410

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 11/12/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	669
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	46
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/15/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	8.5" (ASTM C143)	Concrete Temp. (°F):	78°F (ASTM C1064)
Air Content:	5.3% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	148.8(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
130639	4.00	12.57	09/24/18	9	101720	8090	3
130640	4.00	12.57	09/24/18	9	100910	8030	2
130641	4.00	12.57	10/13/18	28	119215	9480	3
130642	4.00	12.57	10/13/18	28	123670	9840	3
130643	4.00	12.57	10/13/18	28	116030	9230	2
130644	4.00	12.57	11/12/18	58	126610	10070	2
130645	4.00	12.57	11/12/18	58	128770	10240	3

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 015261

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 11/12/18

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	670
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	53
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/15/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	8.0" (ASTM C143)	Concrete Temp. (°F):	80°F (ASTM C1064)
Air Content:	6.5% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	150.8(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
131873	4.00	12.57	09/24/18	9	91980	7320	3
131874	4.00	12.57	09/24/18	9	88350	7030	3
131875	4.00	12.57	10/13/18	28	110725	8810	3
131876	4.00	12.57	10/13/18	28	109995	8750	3
131877	4.00	12.57	10/13/18	28	107895	8580	2
131878	4.00	12.57	11/12/18	58	117320	9330	3
131879	4.00	12.57	11/12/18	58	114010	9070	3

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 015411

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 11/12/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	671
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	61
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/15/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	8.5" (ASTM C143)	Concrete Temp. (°F):	76°F (ASTM C1064)
Air Content:	4.7% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	149.0(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
131498	4.00	12.57	09/24/18	9	107530	8550	3
131499	4.00	12.57	09/24/18	9	106600	8480	3
131500	4.00	12.57	10/13/18	28	122400	9740	2
131501	4.00	12.57	10/13/18	28	113510	9030	2
131502	4.00	12.57	10/13/18	28	120940	9620	3
131503	4.00	12.57	11/12/18	58	124630	9910	3
131504	4.00	12.57	11/12/18	58	108810	8660	3

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 015263

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 11/12/18

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	672
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	60
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/15/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	8.0" (ASTM C143)	Concrete Temp. (°F):	79°F (ASTM C1064)
Air Content:	4.0% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	152.0(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (In.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
131880	4.00	12.57	09/24/18	9	109265	8690	2
131881	4.00	12.57	09/24/18	9	103750	8250	3
131882	4.00	12.57	10/13/18	28	116000	9230	2
131883	4.00	12.57	10/13/18	28	121050	9630	3
131884	4.00	12.57	10/13/18	28	112900	8980	3
131885	4.00	12.57	11/12/18	58	121150	9640	3
131886	4.00	12.57	11/12/18	58	115820	9210	2

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 015412

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 11/12/18



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**REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	673
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	46
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/15/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	8.0" (ASTM C143)	Concrete Temp. (°F):	74°F (ASTM C1064)
Air Content:	4.6% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	150.0(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (In.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
131491	4.00	12.57	09/24/18	9	98660	7850	3
131492	4.00	12.57	09/24/18	9	96150	7650	3
131493	4.00	12.57	10/13/18	28	121060	9630	2
131494	4.00	12.57	10/13/18	28	128615	10230	3
131495	4.00	12.57	10/13/18	28	119710	9520	3
131496	4.00	12.57	11/12/18	58	117480	9350	3
131497	4.00	12.57	11/12/18	58	115620	9200	3

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 015262

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 11/12/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	674
Client:	BRP	Cast By:	Laertis Zotos
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	1293360
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	56
HAKS Project #:	NL 2015-11-340A02	Date Cast:	09/15/18
Mix Class:	6000psi	Date Received:	09/17/18
Slump: (In)	8.5" (ASTM C143)	Concrete Temp. (°F):	79°F (ASTM C1064)
Air Content:	6.0% (ASTM C173)	Volume (YD³):	1,206.0 yd³
Density (lbs/ft³):	148.0(ASTM C138)	Weather:	65°F Sunny

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (In.)	Area of the Cylinder (sq. In.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
131887	4.00	12.57	09/24/18	9	98485	7830	2
131888	4.00	12.57	09/24/18	9	99930	7950	3
131889	4.00	12.57	10/13/18	28	122810	9770	3
131890	4.00	12.57	10/13/18	28	119755	9530	2
131891	4.00	12.57	10/13/18	28	115420	9180	3
131892	4.00	12.57	11/12/18	58	119140	9480	2
130650	4.00	12.57	11/12/18	58	112130	8920	3

Specific Location: 3rd Floor Slab. Stair A and B first to second floor. Curb at East side of High Rise Building on the ground Floor between Columns 116 and 117.

Note(s): Master Tag # 015413

Lab Technician: Muhammad Waqas

ACI Certification #: 01256162

Date: 11/12/18

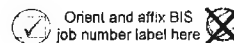
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TR2: Technical Report
Concrete Sampling and Testing

Must be typewritten.



Sheet number 1

Jamaica Crossing Mid Rise - Foundation

1 Location Information Required for all applications.	Mix Design: 5000psi			
House No(s) 148-10	Street Name Archer Avenue			
Borough Queens	Block 9998	Lot 95	BIN 4607281	CB No. 412
Work on Floor(s) Cellar - 3rd Floor	Apt/Condo No(s) N/A			

2 Licensed Concrete Testing Lab Information Required for all applications			
Director Last Name Hallahan	Director First Name Richard	Director Middle Initial	
Business Name HAKS	Business Telephone (914) 945-9010		
Business Address 47 Hudson Street	Business Fax (914) 945-9011		
City Ossining	State NY	Zip 10562	Mobile Telephone
E-Mail RHallahan@haks.net			
Director's Lic. Number 58487	☒ P.E. ☐ R.A.	Concrete Testing Lab Lic. Number 66	

3 Licensed Concrete Testing Laboratory's Identification of Responsibilities Required prior to Permit

Check all that apply below:

I certify that I am the director of the licensed concrete testing laboratory accepting responsibility for conducting the testing in accordance with BC 1905.6 and BC 1704.1. I further certify that I have read the applicable sections of the New York City Construction Codes in connection with the testing of concrete and licensed concrete testing laboratories as well as 1 RCNY §5-02 and 1 RCNY §101-07(c)(6), which specifies the qualifications and duties required of a licensed concrete testing laboratory and that this licensed testing laboratory meets those qualifications for the work for which I take responsibility. I agree that both I and the licensed concrete testing laboratory will comply with all provisions of the New York City Construction Codes as well as 1 RCNY §5-02 and 1 RCNY §101-07(c)(6). I am aware of the additional sanctions imposed on false filings by §28-211.1.2 of the Administrative Code.

Change of Applicant: I am a newly designated individual responsible for the testing specified herein and I hereby state that:

- ☐ None of the tests indicated herein have been performed to date by the previously designated individual.
- ☐ Some of the tests indicated herein have been performed by the previously designated individual, as indicated in the attached report.

I am aware of the additional sanctions imposed on false filings by §28-211.1.2 of the Administrative Code.

Name (please print)

Signature

Date

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

4 Design Applicant's Statement and Signature *P.E./R.A. Required prior to Permit.*

- ☐ I certify that the licensed concrete testing laboratory specified in section 2 above and engaged by the owner to perform tests on the work at the location specified in section 1 above is acceptable. (BC 1704.1)

Name (please print)

Signature

Date

P.E. / R.A. Seal (*apply seal; then sign and date over seal*)**5 Building Owner's Statement and Signature** *Required prior to Permit.*

I certify that I have employed the licensed concrete testing laboratory specified in section 2 above in accordance with BC 1704.1. 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 made a false statement or to have knowingly or negligently falsified or allowed to be falsified any certificate, form, signed statement, application, report or certification of the correction of a 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

STOP HERE PRIOR TO PERMIT

6 Test Report Required prior to Sign-off. Use supplemental pages as needed. Attach Original Lab Test Reports

Specified Concrete Str. (f_c):

PSI 5000

Specified Test Age (days): 28

[illegible]

Licensed Concrete Table Name (please print)

Richard Hallahan, R

Signature

Date _____

08-16-19

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

7 Licensed Concrete Testing Laboratory's Certification of Completion *Required prior to Sign-off.*

☒ I certify that I have completed the testing specified herein and that the results reported in section 6 of this form are true and accurate in accordance with §28-406.3.2.

I am aware of the additional sanctions imposed on false filings by §28-211.1.2 of the Administrative Code.

☐ **Withdrawal of Applicant:** I am withdrawing responsibility for conducting the tests indicated herein and herewith submit the results or status of the work performed to the State.

Name (please print)

Richard Hallahan, P.E.

Signature

Date

08-16-19

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

8 Design Applicant's Statements and Signatures *Required prior to Sign-off. P.E./R.A. responsible for plans, choose one and sign/seal.*

☒ I certify I have reviewed the test results reported by the licensed concrete testing lab in section 6 above and found them to be in compliance with the approved construction documents.

☐ I certify I have reviewed the test results reported by the licensed concrete testing lab in section 6 above and found them to be in compliance with the approved construction documents except as noted in the attached report (BC 1905.6.3.3)

Note: design applicant's signed and sealed report must be attached to this document

Name (please print)

Signature

Date

1-15-2020

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

9 Concrete Producer's Statement and Signature *Required prior to Sign-off. Must be filled out by Owner of Production Facility.*

I certify that the test results reported in section 6 above were reported to me, and I further certify that the concrete delivered is in accordance with the design mix(es) specified on the TR3 submitted for the work specified in section 1 above.

Name (print)

Frank Seaciy

Title

President

Signature

Date

10-14-19

NRMCA Expiration Date (BC 1905.8.2)

10-18-21

Business Name

City Transit Mix

Business Telephone

718-523-1488

Business Address

104-17 148 ST

Business Fax:

City

Jamaica

State

NY

Zip

11435

**CONCRETE TESTING LAB**

NYC LICENSE NO: 066

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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	395
Client:	BRP	Cast By:	Oluwafemi Obagbemiro
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398872
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	57
HAKS Project #:	NL 2015-11-340A02	Date Cast:	06/12/18
Mix Class:	5000psi	Date Received:	06/19/18
Slump: (In)	4.5"(ASTM C143)	Concrete Temp. (°F):	71°F (ASTM C1064)
Air Content:	4.7%(ASTM C173)	Volume (YD³):	11.0yd³
Density (lbs/ft³):	151.9(ASTM C138)	Weather:	62°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
122901	4.00	12.57	06/19/18	7	92070	7320	2
122902	4.00	12.57	06/19/18	7	91170	7250	2
122903	4.00	12.57	07/10/18	28	94820	7540	2
122904	4.00	12.57	07/10/18	28	100010	7960	2
122905	4.00	12.57	07/10/18	28	97710	7770	3
122906	4.00	12.57	08/07/18	56	55350	4400	3
122907	4.00	12.57	08/07/18	56	114650	9120	2

Specific Location:

Bottom of coned protector room.

Note(s): Master Tag # : 14079

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 08/07/18





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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #: 66 **Report #:** 482

Client: BRP **Cast By:** Oluwafemi Obagbemiro

Project Name: Jamaica Crossing - Mid Rise **Inspectors ACI #:** 01398872

Project Address: 148-10 Archer Avenue, Queens, NY **Truck #:** 65

HAKS Project #: NL 2015-11-340A02 **Date Cast:** 07/31/18

Mix Class: 5000psi **Date Received:** 08/01/18

Slump: (In) 5.5"(ASTM C143) **Concrete Temp. (°F):** 81°F (ASTM C1064)

Air Content: 5.9%(ASTM C173) **Volume (YD³):** 42.0yd³

Density (lbs/ft³): 142.6(ASTM C138) **Weather:** 69°F Cloudy

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133203	4.00	12.57	08/07/18	7	82850	6590	2
133204	4.00	12.57	08/07/18	7	91380	7270	2
133205	4.00	12.57	08/28/18	28	105440	8390	3
133206	4.00	12.57	08/28/18	28	101340	8060	3
133207	4.00	12.57	08/28/18	28	103630	8240	3
133209	4.00	12.57	09/25/18	56	109100	8680	2
133210	4.00	12.57	09/25/18	56	107320	8540	2

Con-Ed Protector Room Wall and Top-Slab

Note(s): Master Tag #: 13159

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 09/25/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	483
Client:	BRP	Cast By:	Oluwafemi Obagbemiro
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398872
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	65
HAKS Project #:	NL 2015-11-340A02	Date Cast:	07/31/18
Mix Class:	5000psi	Date Received:	08/01/18
Slump: (In)	5.5"(ASTM C143)	Concrete Temp. (°F):	81°F (ASTM C1064)
Air Content:	5.9%(ASTM C173)	Volume (YD³):	42.0yd³
Density (lbs/ft³):	142.6(ASTM C138)	Weather:	69°F Cloudy

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133940	4.00	12.57	08/07/18	7	87850	6990	3
133941	4.00	12.57	08/07/18	7	90390	7190	3
133942	4.00	12.57	08/28/18	28	106770	8490	2
133943	4.00	12.57	08/28/18	28	99165	7890	3
133944	4.00	12.57	08/28/18	28	97980	7790	3
133945	4.00	12.57	09/25/18	56	186340	14820	2
133946	4.00	12.57	09/25/18	56	104280	8300	2

Con-Ed Protector Room Wall and Top-Slab

Note(s):

Extra Set

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 09/25/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	517
Client:	BRP	Cast By:	Oluwafemi Obagbemi
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398872
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	65
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/08/18
Mix Class:	5000psi	Date Received:	08/09/18
Slump: (In)	6.25"(ASTM C143)	Concrete Temp. (°F):	84°F (ASTM C1064)
Air Content:	5.2%(ASTM C173)	Volume (YD³):	53.0yd³
Density (lbs/ft³):	147.4(ASTM C138)	Weather:	74°F Partly Cloudy

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133401	4.00	12.57	08/15/18	7	81720	6500	2
133402	4.00	12.57	08/15/18	7	80580	6410	3
133403	4.00	12.57	09/05/18	28	99920	7950	3
133404	4.00	12.57	09/05/18	28	98335	7820	2
133405	4.00	12.57	09/05/18	28	100530	8000	3
133406	4.00	12.57	10/03/18	56	105600	8400	3
133407	4.00	12.57	10/03/18	56	102290	8140	3

Location:

Con Ed transfer vault pile cap mat.

Note(s):

Master Tag: 016670

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/03/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	518
Client:	BRP	Cast By:	Oluwafemi Obagbemiro
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398872
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	55
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/08/18
Mix Class:	5000psi	Date Received:	08/09/18
Slump: (in)	7.0"(ASTM C143)	Concrete Temp. (°F):	82°F (ASTM C1064)
Air Content:	6.5%(ASTM C173)	Volume (YD³):	53.0yd³
Density (lbs/ft³):	147.0(ASTM C138)	Weather:	74°F Partly Cloudy

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133316	4.00	12.57	08/15/18	7	82750	6580	3
133317	4.00	12.57	08/15/18	7	82080	6530	2
133318	4.00	12.57	09/05/18	28	100510	8000	3
133319	4.00	12.57	09/05/18	28	99485	7910	3
133320	4.00	12.57	09/05/18	28	100340	7980	2
133321	4.00	12.57	10/03/18	56	104260	8290	2
133322	4.00	12.57	10/03/18	56	113170	9000	3

Location:

Con Ed transfer vault pile cap mat.

Note(s):

Master Tag: 016822

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/03/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS**TESTED AS PER ASTM SPECIFICATION C39 & C1231**

NYC DOB #:	66	Report #:	537
Client:	BRP	Cast By:	Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	46
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/13/18
Mix Class:	5000psi	Date Received:	08/14/18
Slump: (In)	5.25"(ASTM C143)	Concrete Temp. (°F):	82°F (ASTM C1064)
Air Content:	5.3%(ASTM C173)	Volume (YD³):	35.0yd³
Density (lbs/ft³):	147.2(ASTM C138)	Weather:	77°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (In.)	Area of the Cylinder (sq. In.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133051	4.00	12.57	08/20/18	7	95705	7610	3
133052	4.00	12.57	08/20/18	7	97570	7760	3
133053	4.00	12.57	09/10/18	28	103540	8240	3
133054	4.00	12.57	09/10/18	28	105670	8410	3
133055	4.00	12.57	09/10/18	28	97480	7750	3
133056	4.00	12.57	10/08/18	56	101130	8050	3
133057	4.00	12.57	10/08/18	56	120160	9560	3

Specific Location:

Con Edison Vault Slab..

Note(s):

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/08/18



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REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CYLINDERS
TESTED AS PER ASTM SPECIFICATION C39 & C1231

NYC DOB #:	66	Report #:	538
Client:	BRP	Cast By:	Ifeoma Bellinger
Project Name:	Jamaica Crossing - Mid Rise	Inspectors ACI #:	01398865
Project Address:	148-10 Archer Avenue, Queens, NY	Truck #:	46
HAKS Project #:	NL 2015-11-340A02	Date Cast:	08/13/18
Mix Class:	5000psi	Date Received:	08/14/18
Slump: (In)	5.25"(ASTM C143)	Concrete Temp. (°F):	82°F (ASTM C1064)
Air Content:	5.3%(ASTM C173)	Volume (YD³):	35.0yd³
Density (lbs/ft³):	147.2(ASTM C138)	Weather:	77°F

Marking or Bar Code (Cylinder No.)	Diameter of the Cylinder (in.)	Area of the Cylinder (sq. in.)	Test Date	Test Age (Days)	Load (lbs)	Compressive Strength (PSI)	Type of Fracture
133058	4.00	12.57	08/20/18	7	94590	7530	2
133059	4.00	12.57	08/20/18	7	89750	7140	2
133060	4.00	12.57	09/10/18	28	107930	8590	3
133061	4.00	12.57	09/10/18	28	105360	8380	3
133062	4.00	12.57	09/10/18	28	104260	8290	3
133063	4.00	12.57	10/08/18	56	188480	14990	3
133064	4.00	12.57	10/08/18	56	122090	9710	3

Specific Location:

Con Edison Vault Slab..

Note(s): Extra Set.

Lab Technician: Muhammad Waqas
ACI Certification #: 01256162
Date: 10/08/18

Submitted by HAKS Engineers PC
Lab Director: Richard Hallahan P.E.

