

REPORT OF CONCRETE COMPRESSIVE STRENGTH

CLIENT:

PROJECT:

GRIFFIN RILEY INVESTMENTS, LLC

ATTN: JAKE LOVELESS 120 SE 30TH STREET LEE'S SUMMIT MO 64082

THE RESIDENCES @ ECHELON

MO 291 & 150 LEE'S SUMMIT, MO

SERVICES: Sample concrete at location of placement, perform required field tests, prepare and test

concrete compressive strength specimens.

PROJECT DATA

CONTRACTOR: LUKE DRAILY CONST

CENTURY CONCRETE SUPPLIER:

PLANT.

CLASS OF CONCRETE: 4K PL FA MRWR

SPECIFICATION REQUIREMENTS

STRENGTH: 3500psi @ 28 DAYS

SLUMP: 4 + / - 1

AIR:

METHOD OF TEST

ASTM C-172 SAMPLING: MOLDING & CURING: ASTM C31 SLUMP: ASTM C143 ASTM C1064 TEMPERATURE:

AIR CONTENT: **UNIT WEIGHT:**

CAPPING/PADS ASTM C1231 ASTM C39 TESTING:

PAGE 1 OF 1

R20-17-261 PROJECT NO ·

K22519 REPORT NO .:

DATE OF SERVICE: AUTHORIZATION:

03/09/2018 JAKE LOVELESS

REPORT DATE:

03/15/2018

MIX DESIGN NUMBER:

N1C1550405

DATE OF PLACEMENT:

03/09/2018

TIME SAMPLED: 2:51

BY: ANDREW WILSON

BATCH TIME: 2:15

AIR CONTENT (%):

TEMPERATURE (DegF) - AIR:

67

CONCRETE: 70

PARTLY CLOUDY WEATHER: MEASURED SLUMP (in.):

3.00

UNIT WT (pcf) TICKET NO: 286973

TRUCK NO: 258 WATER ADDED @ SITE (gal)

LOCATION OF PLACEMENT

BUILDING 4 WALL FOOTING FROM A.P-B.7 N., W., THEN S. TO A.A-B.1

REPORT OF TESTS

CONCRETE COMPRESSIVE STRENGTH - 4 x 8 CYLINDERS

CYLINDER MARKED		DATE	AGE	DIAMETER	AREA	MAXIMUM LOAD	COMPRESSIVE STRENGTH	e.	
SET	MARK	DATE TESTED	(days)	(in.)	(sq.in.)	(lbs. force)	(psi)	FRACTURE TYPE	REMARKS
K2251	А	03/16/2018	7	3.980	12.44	59940	4820	TYPE 5	
K2251	В	04/06/2018	28	4.000	12.57	80150	6380	TYPE 5	
K2251	С	04/06/2018	28	4.000	12.57	79270	6310	TYPE 5	
K2251	D	Discard							

Technician: ANDREW WILSON, SR. ENGR. TECHNICIAN

Report Distribution:

(1) cbeverlin@bdc-engrs.com (1) jake@griffinriley.com (1) matthew.munger@cityofLS.net (1) mschlicht@es-kc.com (1) srunyan@lukedraily.com (1) thauschild@nspjarch.com (1) tjwatreas@lukedraily.com

Type 1 Type 2 Type 3 Type 4 Type 5 Type 6

Cone Columnar Shear Cone Split

Side Top Fracture Fracture KANSAS CITY TESTING &

DOUG ARTH, R.G. REGISTERED GEOLOGIST

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REPORT OF **CONCRETE COMPRESSIVE STRENGTH**

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GRIFFIN RILEY INVESTMENTS, LLC

ATTN: JAKE LOVELESS 120 SE 30TH STREET LEE'S SUMMIT MO 64082 PAGE 1 OF 1

R20-17-261 PROJECT NO .:

K22574 REPORT NO .:

DATE OF SERVICE:

03/12/2018 JAKE LOVELESS

AUTHORIZATION:

03/16/2018

REPORT DATE:

PROJECT:

THE RESIDENCES @ ECHELON

MO 291 & 150 LEE'S SUMMIT, MO

SERVICES: Sample concrete at location of placement, perform required field tests, prepare and test

concrete compressive strength specimens.

PROJECT DATA

CONTRACTOR: LUKE DRAILY CONST

CONCRETE SUPPLIER: CENTURY

PLANT:

CLASS OF CONCRETE: 4K PL FA MRWR

SPECIFICATION REQUIREMENTS

STRENGTH: 3500psi @ 28 DAYS

SLUMP: 4 + / - 1

AIR:

METHOD OF TEST

SAMPLING: MOLDING & CURING:

ASTM C31 SLUMP ASTM C143 TEMPERATURE: ASTM C1064

AIR CONTENT: UNIT WEIGHT:

CAPPING/PADS TESTING:

ASTM C1231 ASTM C39

ASTM C-172

MIX DESIGN NUMBER:

N1C1550405

DATE OF PLACEMENT: 03/12/2018

BY: ANDREW WILSON TIME SAMPLED: 3:15

BATCH TIME: 2:18

TEMPERATURE (DegF) - AIR:

53

CONCRETE: 74

WEATHER: CLEAR

3.50 MEASURED SLUMP (in.):

AIR CONTENT (%): TRUCK NO: 258

UNIT WT (pcf) TICKET NO: 97355

WATER ADDED @ SITE (gal)

LOCATION OF PLACEMENT BUILDING #4 WALL FOOTINGS

ON LINE B.7/ A.F TO A.P

REPORT OF TESTS

CONCRETE COMPRESSIVE STRENGTH - 4 x 8 CYLINDERS

CYLINDER MARKED		DATE	AGE	DIAMETER	AREA	MAXIMUM LOAD	COMPRESSIVE STRENGTH			
SET	MARK	TESTED	(days)	(in.)	(sq.in.)	(lbs. force)	(psi)	FRACTURE TYPE	REMARKS	
K2257	А	03/19/2018	7	4.000	12.57	62250	4950	TYPE 5		
K2257	В	04/09/2018	28	4.000	12.57	80240	6390	TYPE 5		
K2257	С	04/09/2018	28	4.000	12.57	80560	6410	TYPE 5		
K2257	D	Discard								

Technician: ANDREW WILSON, SR. ENGR. TECHNICIAN

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Type 1 Type 2 Type 3 Type 4 Type 5 Type 6 Side Cone Cone Columnar Shear Top

Split

KANSAS CITY TESTING &

DOUG ARTH, R.G. REGISTERED GEOLOGIST

Fracture Fracture



REPORT OF **CONCRETE COMPRESSIVE STRENGTH**

CLIENT:

GRIFFIN RILEY INVESTMENTS, LLC

ATTN: JAKE LOVELESS 120 SE 30TH STREET LEE'S SUMMIT MO 64082 PAGE 1 OF 1

R20-17-261 PROJECT NO.:

K22588 REPORT NO.:

DATE OF SERVICE: AUTHORIZATION:

03/13/2018 JAKE LOVELESS

REPORT DATE:

03/16/2018

PROJECT:

CONCRETE SUPPLIER:

SPECIFICATION REQUIREMENTS

SLUMP: 4 + / - 1

METHOD OF TEST

TEMPERATURE:

AIR CONTENT: **UNIT WEIGHT:** CAPPING/PADS

MOLDING & CURING:

SAMPLING:

SLUMP.

TESTING:

PLANT:

THE RESIDENCES @ ECHELON

MO 291 & 150 LEE'S SUMMIT, MO

CENTURY

ASTM C-172

ASTM C31

ASTM C143

ASTM C1064

ASTM C1231 ASTM C39

CONTRACTOR: LUKE DRAILY CONST

CLASS OF CONCRETE: 4K PL FA MRWR

STRENGTH: 3500psi @ 28 DAYS

SERVICES: Sample concrete at location of placement, perform required field tests, prepare and test

concrete compressive strength specimens.

AIR:

PROJECT DATA

MIX DESIGN NUMBER:

N1C1550405

DATE OF PLACEMENT:

03/13/2018

TIME SAMPLED: 4:30

BY: ANDREW WILSON

BATCH TIME: 3:06

TEMPERATURE (DegF) - AIR:

52 CONCRETE: 73

WEATHER: CLEAR

4.00 MEASURED SLUMP (in.):

AIR CONTENT (%):

UNIT WT (pcf)

TICKET NO:

TRUCK NO: 221 WATER ADDED @ SITE (gal)

LOCATION OF PLACEMENT

BUILDING #4 WALL FOOTINGS FROM

A.F-B.7, S., THEN W. TO A.A-B.3

REPORT OF TESTS

CONCRETE COMPRESSIVE STRENGTH - 4 x 8 CYLINDERS

CYLINDER MARKED		DATE	AGE	DIAMETER	AREA	MAXIMUM LOAD	COMPRESSIVE STRENGTH			
SET	MARK	TESTED	(days)	(in.)	(sq.in.)	(lbs. force)	(psi)	FRACTURE TYPE	REMARKS	
K2258	А	03/20/2018	7	3.990	12.50	57070	4560	TYPE 2		
K2258	В	04/10/2018	28	4.000	12.57	73300	5830	TYPE 5		
K2258	C	04/10/2018	28	4.000	12.57	74040	5890	TYPE 5		
K2258	D	Discard								

Technician: ANDREW WILSON, SR. ENGR. TECHNICIAN

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Type 1 Type 2 Type 3 Type 4 Type 5 Type 6

> Cone Columnar Shear Split

Cone

Side Top Fracture Fracture KANSAS CITY TESTING &

DOUG ARTH, R.G. REGISTERED GEOLOGIST



REPORT OF CONCRETE COMPRESSIVE STRENGTH

CLIENT:

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ATTN: JAKE LOVELESS 120 SE 30TH STREET LEE'S SUMMIT MO 64082

PROJECT:

THE RESIDENCES @ ECHELON

MO 291 & 150 LEE'S SUMMIT, MO

SERVICES: Sample concrete at location of placement, perform required field tests, prepare and test

concrete compressive strength specimens.

PROJECT DATA

CONTRACTOR: LUKE DRAILY CONST

CONCRETE SUPPLIER: FORDYCE

52 PLANT:

CLASS OF CONCRETE: 4K PL FA MRWR

SPECIFICATION REQUIREMENTS

STRENGTH: 3500psi @ 28 DAYS

SLUMP: 4 + / - 1

AIR:

METHOD OF TEST

SAMPLING: MOLDING & CURING:

SLUMP: TEMPERATURE:

AIR CONTENT: **UNIT WEIGHT:**

CAPPING/PADS TESTING:

ASTM C-172 ASTM C31

ASTM C143 ASTM C1064

ASTM C1231 ASTM C39

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R20-17-261 PROJECT NO ·

REPORT NO .: K22813

DATE OF SERVICE: AUTHORIZATION:

03/30/2018 JAKE LOVELESS

REPORT DATE:

04/03/2018

MIX DESIGN NUMBER:

N1C1550405

03/30/2018 DATE OF PLACEMENT:

TIME SAMPLED: 3:52

BY: ERIC HOWARD

BATCH TIME: 3:08

TEMPERATURE (DegF) - AIR:

58

CONCRETE: 69

WEATHER: CLEAR

MEASURED SLUMP (in.): 3.75

AIR CONTENT (%): TRUCK NO: 128

UNIT WT (pcf) 29585 TICKET NO:

WATER ADDED @ SITE (gal) LOCATION OF PLACEMENT BUILDING 4 S1 FOOTINGS AT AQ, AP AND AJ

REPORT OF TESTS

CONCRETE COMPRESSIVE STRENGTH - 4 x 8 CYLINDERS

CYLINDER MARKED			DATE	AGE	DIAMETER	AREA	MAXIMUM LOAD	COMPRESSIVE STRENGTH				
	SET	MARK	TESTED	(days)	(in.)	(sq.in.)	(lbs. force)	(psi)	FRACTURE	TYPE	REMARKS	
	K2281	A	04/06/2018	7	4.010	12.63	60100	4760	TYPE 5			
	K2281	В	04/27/2018	28								
	K2281	C	04/27/2018	28								
	K2281	D	Hold									

Technician: ERIC HOWARD, CME TECHNICIAN III

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Type 2 Type 3 Type 4 Type 5 Type 6 Type 1 Side Cone Cone Columnar Shear Top

Split

ARTH, R.G. REGISTERED GEOLOGIST

KANSAS CITY TESTING &

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Fracture Fracture