

Change Order No. 2

Oklahoma City Airport Trust
Oklahoma City, Oklahoma

**Rehabilitation/Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Project No. OCAT WRWA 2210
AIP Project No. 3-40-0072-087-2022**

Increase (+) \$77,152.74 and 0 Calendar Days

Duit Construction Co., Inc., CONTRACTOR

Mike Lupp
Signature

Title: Senior Vice President



01-17-2024

APPROVAL RECOMMENDED:

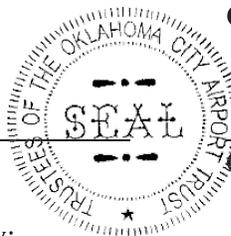
Jeff Mulder
Director of Airports

Jacob V. Harbaugh
Architect/Engineer Signature
Firm Name: MacArthur Associated Consultants

APPROVED by the Oklahoma City Airport Trust and signed by the Chairman this 25TH day of JANUARY, 2024.

ATTEST:

Amy K. Simpson
Trust Secretary



OKLAHOMA CITY AIRPORT TRUST:
Jerry Salmon
Chairman

REVIEWED for form and legality:

Jordan Medaris
Assistant Municipal Counselor/
Attorney for the Trust

ITEM NO. 1

Decrease (-) \$5,530.39

Description

Add a lump sum item for Deduction for Deviated Material Tests (12/04/2022 thru 07/29/2023) as a lump sum at -\$5,530.39.

Justification

This is a lump sum deduct item in the amount of \$5,530.39 for the cost of failing (deviated) tests billed to the Airport between the dates of 12/04/2022 thru 07/29/2023 by the Airport's quality assurance material testing firm (Terracon). The Contractor is responsible to pay for all failing tests.

ITEM NO. 2

Increase (+) \$71,604.63

Description

Add a lump sum item for Partial Payment for Item 39 "Bituminous Surface Course" Failed Air Content as a negotiated lump sum cost of \$71,604.63.

Justification

This is a negotiated lump sum cost for a partial payment of the P-403 Bituminous Surface Course that was placed on the blast pad. This lot of asphalt failed the air voids criteria outlined in AC 150/5370-10H Section P-403, para 403-6.2, Acceptance Criteria, subparagraph b. A Modification of Standard was submitted to the FAA requesting partial payment of this asphalt. The FAA agreed to the stated partial payment.

ITEM NO. 3

Increase (+) \$11,078.50

Description

Add a lump sum item for Incidental Work for Permanent Pavement Marking at a lump sum cost of \$11,078.50.

Justification

Amendment 9 identified the yellow and black striping portion of Item 50 "Permanent Pavement Marking" as acceptable but deducted the costs of the unacceptable white striping. The Department of Airport repainted the white striping to meet federal standards. The Amendment 9 white striping deduction included Contractor incidental costs, such as concrete cure removal and the layout of the striping, that was built into the Item 50 cost. This Change Order item is adding the negotiated Contractor incidental costs that were deducted by Amendment 9.

In consideration of these changes, Duit Construction Co. Inc. Contract is altered as follows:

Original Contract Amount		\$18,122,219.57
Amendment No. 1	(-)	\$2,417,573.62
Change Order No. 1	(+)	\$2,089,268.36
Amendment No. 2	(+)	\$400,409.80
Amendment No. 3	(+)	\$38,708.55
Amendment No. 4	(+)	\$31,567.26
Amendment No. 5	(+)	\$6,995.62
Amendment No. 6	(+)	150,451.92
Amendment No. 7	(+)	\$6,924.48
Amendment No. 8	(+)	\$24,015.75
Amendment No. 9	(-)	\$1,143,728.33
Change Order No. 2	(+)	\$77,152.74

NEW CONTRACT AMOUNT	(+)	\$17,386,412.10
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Original Contract Duration		300 Calendar Days
Amendment No. 1	(+)	25 Calendar Days
Change Order No. 1		0 Calendar Days
Amendment No. 2	(+)	28 Calendar Days
Amendment No. 3	(+)	14 Calendar Days
Amendment No. 4	(+)	9 Calendar Days
Amendment No. 5	(+)	5 Calendar Days
Amendment No. 6	(+)	10 Calendar Days
Amendment No. 7		0 Calendar Days
Amendment No. 8	(+)	5 Calendar Days
Amendment No. 9		0 Calendar Days
Change Order No. 2		0 Calendar Days

NEW CONTRACT DURATION	(+)	396 Calendar Days
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Notice to Proceed Date	October 24, 2022
NEW COMPLETION DATE	November 24, 2023

END OF CHANGE ORDER NO. 2

ATTACHMENT 1



INVOICE

Oklahoma City, OK
405-525-0453

Project Mgr: Nick Schuessler

Project: Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

To: City of Oklahoma City Airport Trust
C/O:MacArthur Associated Consultants, LLC
Attn: Sam Pappas
24 NW 146th ST
Edmond, OK 73013-2472

REMIT TO:

Invoice Number: TI06892

Terracon Consultants, Inc.
PO Box 959673
St Louis, MO 63195-9673

Federal E.I.N.: 42-1249917

Project Number: 03221185
Billed to Date: \$4,153.50
Invoice Date: 2/09/2023
Services Through: 1/14/2023

Date	Report	Description of Services	Quantity	Rate	Total
1/4/23	03221185.0007	Trip Charge, each	1.00	\$30.00	\$30.00
1/4/23	03221185.0007	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
1/4/23	03221185.0007	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
1/5/23	03221185.0008	Trip Charge, each	1.00	\$30.00	\$30.00
1/5/23	03221185.0008	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
1/5/23	03221185.0008	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
1/5/23	03221185.0009	Field Density Test by Nuclear Method, (2 Test Minimum), each	2.00	\$50.00	\$100.00
1/6/23	03221185.0010	Trip Charge, each	1.00	\$30.00	\$30.00
1/6/23	03221185.0010	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
1/6/23	03221185.0010	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
1/9/23	03221185.0011	Trip Charge, each	1.00	\$30.00	\$30.00
1/9/23	03221185.0011	Field Density Test by Nuclear Method, (2 Test Minimum), each	3.00	\$50.00	\$150.00
1/10/23	03221185.0012	Trip Charge, each	1.00	\$30.00	\$30.00
1/10/23	03221185.0012	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
1/10/23	03221185.0012	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
1/10/23	03221185.0013	Field Density Test by Nuclear Method, (2 Test Minimum), each	4.00	\$50.00	\$200.00
1/11/23	03221185.0012A	Trip Charge, each	1.00	\$30.00	\$30.00
1/11/23	03221185.0014	Trip Charge, each	1.00	\$30.00	\$30.00
1/11/23	03221185.0014	Field Density Test by Nuclear Method, (2 Test Minimum), each	5.00	\$50.00	\$250.00
1/11/23	03221185.0015	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
1/11/23	03221185.0015	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
1/12/23	03221185.0016	Trip Charge, each	1.00	\$30.00	\$30.00

TERMS: DUE UPON PRESENTATION OF INVOICE



INVOICE

Adjusted on 4/18/2023

Invoice No.: TJ17834A
 Project No.: 03221185
 Project: Rehabilitation-Reconstruction of Runway 13-31 Phase II
 Will Rogers World Airport
 Oklahoma City, OK 73159

Project Mgr: Nick Schuessler

Date	Report	Description of Services	Quantity	Rate	Total
Continued					
Previous Items					
1/20/23	03221185.0030	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
1/20/23	03221185.0031	Field Density Test by Nuclear Method, (2 Test Minimum), each	4.00	\$50.00	\$200.00
1/23/23	03221185.0035	Trip Charge, each	1.00	\$30.00	\$30.00
1/23/23	03221185.0035	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
1/23/23	03221185.0035	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
1/26/23	03221185.0036A	Trip Charge, each	1.00	\$30.00	\$30.00
1/27/23	03221185.0037	Trip Charge, each	1.00	\$30.00	\$30.00
1/27/23	03221185.0037	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
1/27/23	03221185.0037	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
2/1/23	03221185.0037A	Trip Charge, each	1.00	\$30.00	\$30.00
2/3/23	03221185.0042	Trip Charge, each	1.00	\$30.00	\$30.00
2/3/23	03221185.0042	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
2/3/23	03221185.0042	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
2/6/23	03221185.0042A	Trip Charge, each	1.00	\$30.00	\$30.00
2/6/23	03221185.0045A	Trip Charge, each	1.00	\$30.00	\$30.00
2/6/23	03221185.0045A	Asphalt Core Density (Set of 3 Cores), per set	1.00	\$57.00	\$57.00
2/6/23	03221185.0045A	9-Point Length Measurement of Asphalt core, per core	2.00	\$35.00	\$70.00
2/6/23	03221185.0045A	Superpave Gyratory Compactor, AASHTO T312, per specimen	3.00	\$75.00	\$225.00
2/6/23	03221185.0045A	Specific Gravity (Rice Method)	1.00	\$90.00	\$90.00
2/6/23	03221185.0046	Trip Charge, each	1.00	\$30.00	\$30.00
2/6/23	03221185.0046	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
2/6/23	03221185.0046	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
2/7/23	03221185.0046A	Trip Charge, each	1.00	\$30.00	\$30.00
2/9/23	03221185.0053	Foundation Technician, per hour	3.00	\$51.75	\$155.25
		Cancelled Service / Standby Time			
2/9/23	03221185.0053	Trip Charge, each	1.00	\$30.00	\$30.00
2/9/23	03221185.0055	Trip Charge, each	1.00	\$30.00	\$30.00
2/9/23	03221185.0055	Field Density Test by Nuclear Method, (2 Test Minimum), each	2.00	\$50.00	\$100.00
2/10/23	03221185.0057	Trip Charge, each	1.00	\$30.00	\$30.00
2/10/23	03221185.0057	Field Density Test by Nuclear Method, (2 Test Minimum), each	4.00	\$50.00	\$200.00
2/11/23	03221185.0058	Trip Charge, each	1.00	\$30.00	\$30.00
2/11/23	03221185.0058A	Asphalt Core Density (Set of 3 Cores), per set	1.00	\$57.00	\$57.00
2/11/23	03221185.0058A	9-Point Length Measurement of Asphalt core, per core	2.00	\$35.00	\$70.00
2/11/23	03221185.0058A	Superpave Gyratory Compactor, AASHTO T312, per specimen	3.00	\$75.00	\$225.00

TERMS: DUE UPON PRESENTATION OF INVOICE



INVOICE

Adjusted on 4/18/2023

Invoice No.: TJ17834A
Project No.: 03221185
Project: Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Mgr: Nick Schuessler

Date	Report	Description of Services	Quantity	Rate	Total
Continued					
Previous Items					
2/11/23	03221185.0058A	Specific Gravity (Rice Method)	1.00	\$90.00	\$90.00
2/13/23	03221185.0059	Trip Charge, each	1.00	\$30.00	\$30.00
2/13/23	03221185.0059	Concrete Cylinders 4"x8" (Making and Transporting)	4.00	\$24.00	\$96.00
2/13/23	03221185.0059	Concrete Cylinders 4"x8" (Storing and/or Testing)	4.00	\$13.00	\$52.00
2/13/23	03221185.0060	Field Density Test by Nuclear Method, (2 Test Minimum), each	2.00	\$50.00	\$100.00
2/13/23	03221185.0061A	Trip Charge, each	1.00	\$30.00	\$30.00
2/13/23	03221185.0061A	Asphalt Core Density (Set of 3 Cores), per set	3.00	\$57.00	\$171.00
2/13/23	03221185.0061A	9-Point Length Measurement of Asphalt core, per core	6.00	\$35.00	\$210.00
2/13/23	03221185.0061A	Superpave Gyratory Compactor, AASHTO T312, per specimen	9.00	\$75.00	\$675.00
2/13/23	03221185.0061A	Specific Gravity (Rice Method)	3.00	\$90.00	\$270.00
2/13/23	03221185.0062	Trip Charge, each	1.00	\$30.00	\$30.00
2/13/23	03221185.0063	Trip Charge, each	1.00	\$30.00	\$30.00
2/14/23	03221185.0064	Foundation Technician, per hour Standby Time	2.00	\$51.75	\$103.50
2/14/23	03221185.0064	Trip Charge, each Cancelled Service	1.00	\$30.00	\$30.00
2/14/23	03221185.0066	Trip Charge, each	1.00	\$30.00	\$30.00
2/14/23	03221185.0066	Field Density Test by Nuclear Method, (2 Test Minimum), each	2.00	\$50.00	\$100.00
2/15/23	03221185.0068	Trip Charge, each	1.00	\$30.00	\$30.00
2/15/23	03221185.0068	Concrete Cylinders 4"x8" (Making and Transporting)	4.00	\$24.00	\$96.00
2/15/23	03221185.0068	Concrete Cylinders 4"x8" (Storing and/or Testing)	4.00	\$13.00	\$52.00
2/15/23	03221185.0069	Field Density Test by Nuclear Method, (2 Test Minimum), each	3.00	\$50.00	\$150.00
2/16/23	03221185.0068A	Trip Charge, each	1.00	\$30.00	\$30.00
2/16/23	03221185.0071	Field Density Test by Nuclear Method, (2 Test Minimum), each	1.00	\$50.00	\$50.00
2/17/23	03221185.0072	Trip Charge, each	1.00	\$30.00	\$30.00
2/17/23	03221185.0072A	Superpave Gyratory Compactor, AASHTO T312, per specimen	3.00	\$75.00	\$225.00
2/17/23	03221185.0072A	Specific Gravity (Rice Method)	1.00	\$90.00	\$90.00
2/17/23	03221185.0073	Trip Charge, each	1.00	\$30.00	\$30.00
2/17/23	03221185.0073	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
2/17/23	03221185.0073	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
2/20/23	03221185.0075	Trip Charge, each	1.00	\$30.00	\$30.00
2/20/23	03221185.0075A	Asphalt Core Density (Set of 3 Cores), per set	4.00	\$57.00	\$228.00
2/20/23	03221185.0075A	9-Point Length Measurement of Asphalt core, per core	8.00	\$35.00	\$280.00

TERMS: DUE UPON PRESENTATION OF INVOICE



INVOICE

Adjusted on 4/18/2023

Invoice No.: TJ17834A
Project No.: 03221185
Project: Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Mgr: Nick Schuessler

Date	Report	Description of Services	Quantity	Rate	Total
Continued					
Previous Items					
2/20/23	03221185.0075A	Superpave Gyratory Compactor, AASHTO T312, per specimen	9.00	\$75.00	\$675.00
2/20/23	03221185.0075A	Specific Gravity (Rice Method)	3.00	\$90.00	\$270.00
2/20/23	03221185.0078	Trip Charge, each	1.00	\$30.00	\$30.00
2/20/23	03221185.0078	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
2/20/23	03221185.0078	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
2/21/23	03221185.0081	Trip Charge, each	1.00	\$30.00	\$30.00
2/21/23	03221185.0082	Trip Charge, each	1.00	\$30.00	\$30.00
2/21/23	03221185.0082	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
2/21/23	03221185.0082	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
2/22/23	03221185.0085	Trip Charge, each	1.00	\$30.00	\$30.00
2/22/23	03221185.0085A	Superpave Gyratory Compactor, AASHTO T312, per specimen	3.00	\$75.00	\$225.00
2/22/23	03221185.0085A	Specific Gravity (Rice Method)	1.00	\$90.00	\$90.00
2/22/23	03221185.0086	Trip Charge, each	1.00	\$30.00	\$30.00
2/22/23	03221185.0086	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
2/22/23	03221185.0086	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
2/22/23	03221185.0087	Field Density Test by Nuclear Method, (2 Test Minimum), each	2.00	\$50.00	\$100.00
2/23/23	03221185.0088	Trip Charge, each	1.00	\$30.00	\$30.00
2/23/23	03221185.0088	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
2/23/23	03221185.0088	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
2/23/23	03221185.0089A	Asphalt Core Density (Set of 3 Cores), per set	1.00	\$57.00	\$57.00
2/23/23	03221185.0089A	9-Point Length Measurement of Asphalt core, per core	2.00	\$35.00	\$70.00
2/24/23	03221185.0088A	Trip Charge, each	1.00	\$30.00	\$30.00
2/27/23	03221185.0094	Trip Charge, each	1.00	\$30.00	\$30.00
2/27/23	03221185.0094A	Asphalt Core Density (Set of 3 Cores), per set	1.00	\$57.00	\$57.00
2/27/23	03221185.0094A	9-Point Length Measurement of Asphalt core, per core	2.00	\$35.00	\$70.00
2/27/23	03221185.0094A	Superpave Gyratory Compactor, AASHTO T312, per specimen	3.00	\$75.00	\$225.00
2/27/23	03221185.0094A	Specific Gravity (Rice Method)	1.00	\$90.00	\$90.00
2/27/23	03221185.0095	Trip Charge, each	1.00	\$30.00	\$30.00
2/27/23	03221185.0095	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
2/27/23	03221185.0095	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
2/27/23	03221185.0096	Field Density Test by Nuclear Method, (2 Test Minimum), each	2.00	\$50.00	\$100.00
2/28/23	03221185.0097	Trip Charge, each	1.00	\$30.00	\$30.00

TERMS: DUE UPON PRESENTATION OF INVOICE



INVOICE

Adjusted on 4/18/2023

Invoice No.: TJ17834A
 Project No.: 03221185
 Project: Rehabilitation-Reconstruction of
 Runway 13-31 Phase II
 Will Rogers World Airport
 Oklahoma City, OK 73159

Project Mgr: Nick Schuessler

Date	Report	Description of Services	Quantity	Rate	Total
Continued					
Previous Items					
2/28/23	03221185.0097	Field Density Test by Nuclear Method, (2 Test Minimum), each	2.00	\$50.00	\$100.00
2/28/23	03221185.0098	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
2/28/23	03221185.0098	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
2/28/23	03221185.0099	Trip Charge, each	1.00	\$30.00	\$30.00
2/28/23	03221185.0099A	Asphalt Core Density (Set of 3 Cores), per set	3.00	\$57.00	\$171.00
2/28/23	03221185.0099A	9-Point Length Measurement of Asphalt core, per core	6.00	\$35.00	\$210.00
2/28/23	03221185.0099A	Superpave Gyratory Compactor, AASHTO T312, per specimen	9.00	\$75.00	\$675.00
2/28/23	03221185.0099A	Specific Gravity (Rice Method)	3.00	\$90.00	\$270.00
3/1/23	03221185.0090A	Trip Charge, each	1.00	\$30.00	\$30.00
3/1/23	03221185.0090A	Soil Atterberg Limits (LL, PL, and PI)	1.00	\$77.50	\$77.50
3/1/23	03221185.0090A	Soil Sieve Analysis (Includes 200 sieve), each	1.00	\$57.25	\$57.25
3/1/23	03221185.0090A	Standard Proctor Test (AASHTO 99)	1.00	\$160.00	\$160.00
3/1/23	03221185.0093A	Soil Atterberg Limits (LL, PL, and PI)	1.00	\$77.50	\$77.50
3/1/23	03221185.0093A	Soil Sieve Analysis (Includes 200 sieve), each	1.00	\$57.25	\$57.25
3/1/23	03221185.0093A	Standard Proctor Test (AASHTO 99)	1.00	\$160.00	\$160.00
3/1/23	03221185.0101	Trip Charge, each	1.00	\$30.00	\$30.00
3/1/23	03221185.0101	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
3/1/23	03221185.0101	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
3/1/23	03221185.0102	Trip Charge, each	1.00	\$30.00	\$30.00
3/1/23	03221185.0102A	Asphalt Core Density (Set of 3 Cores), per set	2.00	\$57.00	\$114.00
3/1/23	03221185.0102A	9-Point Length Measurement of Asphalt core, per core	2.00	\$35.00	\$70.00
3/1/23	03221185.0102A	Superpave Gyratory Compactor, AASHTO T312, per specimen	3.00	\$75.00	\$225.00
3/1/23	03221185.0102A	Specific Gravity (Rice Method)	1.00	\$90.00	\$90.00
3/2/23	03221185.0103A	Asphalt Core Density (Set of 3 Cores), per set	1.00	\$57.00	\$57.00
3/2/23	03221185.0103A	9-Point Length Measurement of Asphalt core, per core	2.00	\$35.00	\$70.00
3/2/23	03221185.0103A	Superpave Gyratory Compactor, AASHTO T312, per specimen	3.00	\$75.00	\$225.00
3/2/23	03221185.0103A	Specific Gravity (Rice Method)	1.00	\$90.00	\$90.00
3/2/23	03221185.0104	Trip Charge, each	1.00	\$30.00	\$30.00
3/2/23	03221185.0104	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
3/2/23	03221185.0104	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
3/2/23	03221185.0106A	Asphalt Core Density (Set of 3 Cores), per set	1.00	\$57.00	\$57.00
3/2/23	03221185.0106A	9-Point Length Measurement of Asphalt core, per core	2.00	\$35.00	\$70.00
3/2/23	03221185.0106A	Superpave Gyratory Compactor, AASHTO T312, per specimen	3.00	\$75.00	\$225.00

TERMS: DUE UPON PRESENTATION OF INVOICE



INVOICE

Adjusted on 4/18/2023

Invoice No.: TJ17834A
 Project No.: 03221185
 Project: Rehabilitation-Reconstruction of
 Runway 13-31 Phase II
 Will Rogers World Airport
 Oklahoma City, OK 73159

Project Mgr: Nick Schuessler

Date	Report	Description of Services	Quantity	Rate	Total
Continued					
Previous Items					
3/2/23	03221185.0106A	Specific Gravity (Rice Method)	1.00	\$90.00	\$90.00
3/3/23	03221185.0108	Trip Charge, each	1.00	\$30.00	\$30.00
3/3/23	03221185.0108	Field Density Test by Nuclear Method, (2 Test Minimum), each	2.00	\$50.00	\$100.00
3/3/23	03221185.0109	Trip Charge, each	1.00	\$30.00	\$30.00
3/3/23	03221185.0109A	Asphalt Core Density (Set of 3 Cores), per set	1.00	\$57.00	\$57.00
3/3/23	03221185.0109A	9-Point Length Measurement of Asphalt core, per core	2.00	\$35.00	\$70.00
3/3/23	03221185.0109A	Superpave Gyrotory Compactor, AASHTO T312, per specimen	3.00	\$75.00	\$225.00
3/3/23	03221185.0109A	Specific Gravity (Rice Method)	1.00	\$90.00	\$90.00
3/6/23	03221185.0111	Trip Charge, each	1.00	\$30.00	\$30.00
3/6/23	03221185.0111	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
3/6/23	03221185.0111	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
3/7/23	03221185.0113	Trip Charge, each	1.00	\$30.00	\$30.00
3/7/23	03221185.0113	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
3/7/23	03221185.0113	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
3/8/23	03221185.0113A	Trip Charge, each	1.00	\$30.00	\$30.00
3/13/23	03221185.0119	Foundation Technician, per hour Cancelled Service / Standby Time	4.00	\$51.75	\$207.00
3/13/23	03221185.0119	Trip Charge, each	1.00	\$30.00	\$30.00
3/14/23	03221185.0122	Foundation Technician, per hour Cancelled Service / Standby Time	5.00	\$51.75	\$258.75
3/14/23	03221185.0122	Trip Charge, each	1.00	\$30.00	\$30.00
3/14/23	03221185.0123	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
3/14/23	03221185.0123	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
3/15/23	03221185.0124	Foundation Technician, per hour Cancelled Service / Standby Time	2.50	\$51.75	\$129.38
3/15/23	03221185.0124	Trip Charge, each	1.00	\$30.00	\$30.00
3/15/23	03221185.0125	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
3/15/23	03221185.0125	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
3/17/23	03221185.0128	Trip Charge, each	1.00	\$30.00	\$30.00
3/17/23	03221185.0128	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
3/17/23	03221185.0128	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
Previous Items Total					\$18,132.38

Adjustment Items

TERMS: DUE UPON PRESENTATION OF INVOICE



INVOICE

Oklahoma City, OK
405-525-0453

Project Mgr: Nick Schuessler

Project: Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

To: City of Oklahoma City Airport Trust
C/O:MacArthur Associated Consultants, LLC
Attn: Sam Pappas
24 NW 146th ST
Edmond, OK 73013-2472

REMIT TO:

Invoice Number: TJ44930

Terracon Consultants, Inc.
PO Box 959673
St Louis, MO 63195-9673

Federal E.I.N.: 42-1249917

Project Number: 03221185
Billed to Date: \$33,832.38
Invoice Date: 5/23/2023
Services Through: 4/08/2023

Date	Report	Description of Services	Quantity	Rate	Total
3/20/23	03221185.0129	Foundation Technician, per hour Standby Time	4.00	\$51.75	\$207.00
3/20/23	03221185.0129	Trip Charge, each	1.00	\$30.00	\$30.00
3/20/23	03221185.0129	Making & Furnishing Beams (3 per set), per set	3.00	\$125.00	\$375.00
3/20/23	03221185.0129	Concrete Beams, Storing and/or Testing, per beam	9.00	\$26.00	\$234.00
3/20/23	03221185.0130	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
3/20/23	03221185.0130	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
3/21/23	03221185.0131	Foundation Technician, per hour Standby Time	5.00	\$51.75	\$258.75
3/21/23	03221185.0131	Trip Charge, each	1.00	\$30.00	\$30.00
3/21/23	03221185.0131	Making & Furnishing Beams (3 per set), per set	3.00	\$125.00	\$375.00
3/21/23	03221185.0131	Concrete Beams, Storing and/or Testing, per beam	9.00	\$26.00	\$234.00
3/21/23	03221185.0132	Trip Charge, each	1.00	\$30.00	\$30.00
3/21/23	03221185.0132	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
3/21/23	03221185.0132	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
3/22/23	03221185.0133	Foundation Technician, per hour Standby Time	4.00	\$51.75	\$207.00
3/22/23	03221185.0133	Trip Charge, each	1.00	\$30.00	\$30.00
3/22/23	03221185.0133	Making & Furnishing Beams (3 per set), per set	1.00	\$125.00	\$125.00
3/22/23	03221185.0133	Concrete Beams, Storing and/or Testing, per beam	3.00	\$26.00	\$78.00
3/22/23	03221185.0134	Trip Charge, each	1.00	\$30.00	\$30.00
3/22/23	03221185.0134	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
3/22/23	03221185.0134	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
3/23/23	03221185.0136	Trip Charge, each	1.00	\$30.00	\$30.00
3/23/23	03221185.0136	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
3/23/23	03221185.0136	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00

TERMS: DUE UPON PRESENTATION OF INVOICE



INVOICE

Invoice No.: TJ44930
 Project No.: 03221185
 Project: Rehabilitation-Reconstruction of
 Runway 13-31 Phase II
 Will Rogers World Airport
 Oklahoma City, OK 73159

Project Mgr: Nick Schuessler

Date	Report	Description of Services	Quantity	Rate	Total
Continued					
Only 1 set failed = \$203					
3/24/23	03221185.0137	Foundation Technician, per hour Standby Time	4.00	\$51.75	\$207.00
3/24/23	03221185.0137	Trip Charge, each	1.00	\$30.00	\$30.00
3/24/23	03221185.0137	Making & Furnishing Beams (3 per set), per set	3.00	\$125.00	\$375.00
3/24/23	03221185.0137	Concrete Beams, Storing and/or Testing, per beam	9.00	\$26.00	\$234.00
3/25/23	03221185.0137A	Trip Charge, each	1.00	\$30.00	\$30.00
3/27/23	03221185.0141	Trip Charge, each	1.00	\$30.00	\$30.00
3/27/23	03221185.0141	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
3/27/23	03221185.0141	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
3/28/23	03221185.0142	Foundation Technician, per hour	2.00	\$51.75	\$103.50
3/28/23	03221185.0142	Trip Charge, each	1.00	\$30.00	\$30.00
3/28/23	03221185.0142	Making & Furnishing Beams (3 per set), per set	1.00	\$125.00	\$125.00
3/28/23	03221185.0142	Concrete Beams, Storing and/or Testing, per beam	3.00	\$26.00	\$78.00
3/28/23	03221185.0143	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
3/28/23	03221185.0143	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
3/29/23	03221185.0144	Foundation Technician, per hour Standby Time	4.00	\$51.75	\$207.00
3/29/23	03221185.0144	Trip Charge, each	1.00	\$30.00	\$30.00
3/29/23	03221185.0144	Making & Furnishing Beams (3 per set), per set	3.00	\$125.00	\$375.00
3/29/23	03221185.0144	Concrete Beams, Storing and/or Testing, per beam	9.00	\$26.00	\$234.00
3/29/23	03221185.0145	Trip Charge, each	1.00	\$30.00	\$30.00
3/29/23	03221185.0145	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
3/29/23	03221185.0145	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
3/30/23	03221185.0146	Foundation Technician, per hour	3.00	\$51.75	\$155.25
3/30/23	03221185.0146	Trip Charge, each	1.00	\$30.00	\$30.00
3/30/23	03221185.0146	Making & Furnishing Beams (3 per set), per set	3.00	\$125.00	\$375.00
3/30/23	03221185.0146	Concrete Beams, Storing and/or Testing, per beam	9.00	\$26.00	\$234.00
3/30/23	03221185.0147	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
3/30/23	03221185.0147	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
3/31/23	03221185.0149	Foundation Technician, per hour Standby Time	5.00	\$51.75	\$258.75
3/31/23	03221185.0149	Trip Charge, each	1.00	\$30.00	\$30.00
3/31/23	03221185.0149	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
3/31/23	03221185.0149	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
3/31/23	03221185.0150	Field Density Test by Nuclear Method, (2 Test Minimum), each	2.00	\$50.00	\$100.00
4/1/23	03221185.0152	Foundation Technician, per hour Standby Time	3.00	\$51.75	\$155.25
4/1/23	03221185.0152	Technician Time, (7pm-6am),(Sat. & Sun.) or (Holidays)	9.00	\$27.00	\$243.00

TERMS: DUE UPON PRESENTATION OF INVOICE



INVOICE

Invoice No.: TJ44930
 Project No.: 03221185
 Project: Rehabilitation-Reconstruction of
 Runway 13-31Phase II
 Will Rogers World Airport
 Oklahoma City, OK 73159

Project Mgr: Nick Schuessler

Date	Report	Description of Services	Quantity	Rate	Total
Continued					
Saturday					
4/1/23	03221185.0152	Trip Charge, each	1.00	\$30.00	\$30.00
4/1/23	03221185.0152	Making & Furnishing Beams (3 per set), per set	3.00	\$125.00	\$375.00
4/1/23	03221185.0152	Concrete Beams, Storing and/or Testing, per beam	9.00	\$26.00	\$234.00
4/3/23	03221185.0151	Foundation Technician, per hour	3.00	\$51.75	\$155.25
Standby Time					
4/3/23	03221185.0151	Trip Charge, each	1.00	\$30.00	\$30.00
4/3/23	03221185.0151	Making & Furnishing Beams (3 per set), per set	2.00	\$125.00	\$250.00
4/3/23	03221185.0151	Concrete Beams, Storing and/or Testing, per beam	6.00	\$26.00	\$156.00
4/3/23	03221185.0153	Foundation Technician, per hour	1.00	\$51.75	\$51.75
Standby Time					
4/3/23	03221185.0153	Trip Charge, each	1.00	\$30.00	\$30.00
4/3/23	03221185.0153	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
4/3/23	03221185.0153	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
4/4/23	03221185.0154	Foundation Technician, per hour	3.00	\$51.75	\$155.25
Standby Time					
4/4/23	03221185.0154	Trip Charge, each	1.00	\$30.00	\$30.00
4/4/23	03221185.0154	Making & Furnishing Beams (3 per set), per set	1.00	\$125.00	\$125.00
4/4/23	03221185.0154	Concrete Beams, Storing and/or Testing, per beam	3.00	\$26.00	\$78.00
4/4/23	03221185.0155	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
4/4/23	03221185.0155	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
4/5/23	03221185.0156	Foundation Technician, per hour	4.00	\$51.75	\$207.00
Standby Time					
4/5/23	03221185.0156	Trip Charge, each	1.00	\$30.00	\$30.00
4/5/23	03221185.0156	Making & Furnishing Beams (3 per set), per set	2.00	\$125.00	\$250.00
4/5/23	03221185.0156	Concrete Beams, Storing and/or Testing, per beam	6.00	\$26.00	\$156.00
4/5/23	03221185.0157	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
4/5/23	03221185.0157	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
4/6/23	03221185.0158	Foundation Technician, per hour	3.00	\$51.75	\$155.25
Standby Time					
4/6/23	03221185.0158	Trip Charge, each	1.00	\$30.00	\$30.00
4/6/23	03221185.0158	Making & Furnishing Beams (3 per set), per set	1.00	\$125.00	\$125.00
4/6/23	03221185.0158	Concrete Beams, Storing and/or Testing, per beam	3.00	\$26.00	\$78.00
4/6/23	03221185.0160	Trip Charge, each	1.00	\$30.00	\$30.00
4/6/23	03221185.0160	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
4/6/23	03221185.0160	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
4/7/23	03221185.0161	Foundation Technician, per hour	2.00	\$51.75	\$103.50
Standby Time					
4/7/23	03221185.0161	Trip Charge, each	1.00	\$30.00	\$30.00

TERMS: DUE UPON PRESENTATION OF INVOICE



INVOICE

Oklahoma City, OK
405-525-0453

Project Mgr: Nick Schuessler

Project: Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

To: City of Oklahoma City Airport Trust
C/O:MacArthur Associated Consultants, LLC
Attn: Sam Pappas
24 NW 146th ST
Edmond, OK 73013-2472

REMIT TO:	
Invoice Number: TJ45013	
Terracon Consultants, Inc.	
PO Box 959673	
St Louis, MO 63195-9673	
Federal E.I.N.: 42-1249917	

Project Number:	03221185
Billed to Date:	\$44,440.76
Invoice Date:	5/24/2023
Services Through:	5/06/2023

Date	Report	Description of Services	Quantity	Rate	Total
4/10/23	03221185.0162	Foundation Technician, per hour Standby Time	4.00	\$51.75	\$207.00
4/10/23	03221185.0162	Trip Charge, each	1.00	\$30.00	\$30.00
4/10/23	03221185.0162	Making & Furnishing Beams (3 per set), per set	1.00	\$125.00	\$125.00
4/10/23	03221185.0162	Concrete Beams, Storing and/or Testing, per beam	3.00	\$26.00	\$78.00
4/10/23	03221185.0163	Field Density Test by Nuclear Method, (2 Test Minimum), each	2.00	\$50.00	\$100.00
4/10/23	03221185.0164	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
4/10/23	03221185.0164	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
4/11/23	03221185.0165	Trip Charge, each	1.00	\$30.00	\$30.00
4/11/23	03221185.0165	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
4/11/23	03221185.0165	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
4/12/23	03221185.0167	Foundation Technician, per hour Standby Time	3.00	\$51.75	\$155.25
4/12/23	03221185.0167	Trip Charge, each	1.00	\$30.00	\$30.00
4/12/23	03221185.0167	Making & Furnishing Beams (3 per set), per set	1.00	\$125.00	\$125.00
4/12/23	03221185.0167	Concrete Beams, Storing and/or Testing, per beam	3.00	\$26.00	\$78.00
4/12/23	03221185.0168	9-Point Length Measurement of Concrete Core, per core	24.00	\$35.00	\$840.00
4/12/23	03221185.0169	Trip Charge, each	1.00	\$30.00	\$30.00
4/12/23	03221185.0169	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
4/12/23	03221185.0169	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
4/13/23	03221185.0170	Trip Charge, each	1.00	\$30.00	\$30.00
4/13/23	03221185.0170	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
4/13/23	03221185.0170	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
4/14/23	03221185.0171	Trip Charge, each	1.00	\$30.00	\$30.00

TERMS: DUE UPON PRESENTATION OF INVOICE



INVOICE

Invoice No.: TJ45013
Project No.: 03221185
Project: Rehabilitation-Reconstruction of Runway 13-31 Phase II
 Will Rogers World Airport
 Oklahoma City, OK 73159

Project Mgr: Nick Schuessler

Date	Report	Description of Services	Quantity	Rate	Total
Continued					
4/14/23	03221185.0171	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
4/14/23	03221185.0171	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
4/17/23	03221185.0172	Trip Charge, each	1.00	\$30.00	\$30.00
4/17/23	03221185.0172	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
4/17/23	03221185.0172	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
4/17/23	03221185.0173	Field Density Test by Nuclear Method, (2 Test Minimum), each	2.00	\$50.00	\$100.00
4/18/23	03221185.0175	Trip Charge, each	1.00	\$30.00	\$30.00
4/18/23	03221185.0175	Field Density Test by Nuclear Method, (2 Test Minimum), each	2.00	\$50.00	\$100.00
4/19/23	03221185.0176	Trip Charge, each	1.00	\$30.00	\$30.00
4/19/23	03221185.0176	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
4/19/23	03221185.0176	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
4/19/23	03221185.0177	Field Density Test by Nuclear Method, (2 Test Minimum), each	2.00	\$50.00	\$100.00
4/20/23	03221185.0176A	Trip Charge, each	1.00	\$30.00	\$30.00
4/21/23	03221185.0181	Trip Charge, each	1.00	\$30.00	\$30.00
4/21/23	03221185.0181	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
4/21/23	03221185.0181	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
4/21/23	03221185.0182	Field Density Test by Nuclear Method, (2 Test Minimum), each	2.00	\$50.00	\$100.00
4/24/23	03221185.0183	Foundation Technician, per hour Standby Time	4.00	\$51.75	\$207.00
4/24/23	03221185.0183	Trip Charge, each	1.00	\$30.00	\$30.00
4/24/23	03221185.0183	Making & Furnishing Beams (3 per set), per set	2.00	\$125.00	\$250.00
4/24/23	03221185.0183	Concrete Beams, Storing and/or Testing, per beam	6.00	\$26.00	\$156.00
4/24/23	03221185.0185	Trip Charge, each	1.00	\$30.00	\$30.00
4/24/23	03221185.0185	Field Density Test by Nuclear Method, (2 Test Minimum), each	2.00	\$50.00	\$100.00
4/25/23	03221185.0183A	Trip Charge, each	1.00	\$30.00	\$30.00
4/27/23	03221185.0206	Foundation Technician, per hour Standby Time	3.00	\$51.75	\$155.25
4/27/23	03221185.0206	Trip Charge, each	1.00	\$30.00	\$30.00
4/27/23	03221185.0206	Making & Furnishing Beams (3 per set), per set	1.00	\$125.00	\$125.00
4/27/23	03221185.0206	Concrete Beams, Storing and/or Testing, per beam	3.00	\$26.00	\$78.00
4/27/23	03221185.0208	Field Density Test by Nuclear Method, (2 Test Minimum), each	2.00	\$50.00	\$100.00
4/28/23	03221185.0209	Foundation Technician, per hour Standby Time	4.00	\$51.75	\$207.00
4/28/23	03221185.0209	Trip Charge, each	1.00	\$30.00	\$30.00
4/28/23	03221185.0209	Making & Furnishing Beams (3 per set), per set	2.00	\$125.00	\$250.00
4/28/23	03221185.0209	Concrete Beams, Storing and/or Testing, per beam	6.00	\$26.00	\$156.00

TERMS: DUE UPON PRESENTATION OF INVOICE



INVOICE

Invoice No.: TJ45013
 Project No.: 03221185
 Project: Rehabilitation-Reconstruction of
 Runway 13-31 Phase II
 Will Rogers World Airport
 Oklahoma City, OK 73159

Project Mgr: Nick Schuessler

Date	Report	Description of Services	Quantity	Rate	Total
Continued					
4/28/23	03221185.0210	Foundation Technician, per hour Standby Time	3.00	\$51.75	\$155.25
4/28/23	03221185.0210	Trip Charge, each	1.00	\$30.00	\$30.00
4/28/23	03221185.0210	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
4/28/23	03221185.0210	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
4/29/23	03221185.0198	Foundation Technician, per hour Standby Time	3.00	\$51.75	\$155.25
4/29/23	03221185.0198	Technician Time, (7pm-6am),(Sat. & Sun.) or (Holidays) Saturday	3.00	\$27.00	\$81.00
4/29/23	03221185.0198	Trip Charge, each	1.00	\$30.00	\$30.00
4/29/23	03221185.0198	Making & Furnishing Beams (3 per set), per set	1.00	\$125.00	\$125.00
4/29/23	03221185.0198	Concrete Beams, Storing and/or Testing, per beam	3.00	\$26.00	\$78.00
5/1/23	03221185.0213	Foundation Technician, per hour Standby Time	2.00	\$51.75	\$103.50
5/1/23	03221185.0213	Trip Charge, each	1.00	\$30.00	\$30.00
5/1/23	03221185.0213	Making & Furnishing Beams (3 per set), per set	3.00	\$125.00	\$375.00
5/1/23	03221185.0213	Concrete Beams, Storing and/or Testing, per beam	9.00	\$26.00	\$234.00
5/1/23	03221185.0215	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
5/1/23	03221185.0215	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
5/2/23	03221185.0216	Trip Charge, each	1.00	\$30.00	\$30.00
5/2/23	03221185.0216	Making & Furnishing Beams (3 per set), per set	2.00	\$125.00	\$250.00
5/2/23	03221185.0216	Concrete Beams, Storing and/or Testing, per beam	6.00	\$26.00	\$156.00
5/2/23	03221185.0217	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
5/2/23	03221185.0217	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
5/3/23	03221185.0218	Foundation Technician, per hour Standby Time	2.50	\$51.75	\$129.38
5/3/23	03221185.0218	Trip Charge, each	1.00	\$30.00	\$30.00
5/3/23	03221185.0218	Making & Furnishing Beams (3 per set), per set	4.00	\$125.00	\$500.00
5/3/23	03221185.0218	Concrete Beams, Storing and/or Testing, per beam	12.00	\$26.00	\$312.00
5/3/23	03221185.0219	Foundation Technician, per hour Standby Time	2.00	\$51.75	\$103.50
5/3/23	03221185.0219	Trip Charge, each	1.00	\$30.00	\$30.00
5/3/23	03221185.0219	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
5/3/23	03221185.0219	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
5/4/23	03221185.0218A	Foundation Technician, per hour Standby Time	3.00	\$51.75	\$155.25
5/4/23	03221185.0218A	Trip Charge, each Cancelled Service	1.00	\$30.00	\$30.00
5/5/23	03221185.0220	Foundation Technician, per hour	1.00	\$51.75	\$51.75

TERMS: DUE UPON PRESENTATION OF INVOICE



INVOICE

Adjusted on 6/23/2023

Oklahoma City, OK
405-525-0453

Project Mgr: Nick Schuessler

Project: Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

To: City of Oklahoma City Airport Trust
C/O:MacArthur Associated Consultants, LLC
Attn: Sam Pappas
24 NW 146th ST
Edmond, OK 73013-2472

REMIT TO:	
Invoice Number: TJ52192A	
Original Invoice: TJ52192	
Terracon Consultants, Inc.	
PO Box 959673	
St Louis, MO 63195-9673	
Federal E.I.N.: 42-1249917	

Project Number:	03221185
Billed to Date:	\$49,035.52
Invoice Date:	6/23/2023
Services Through:	6/03/2023

Date	Report	Description of Services	Quantity	Rate	Total
Previous Items					
5/8/23	03221185.0222	Foundation Technician, per hour	3.00	\$51.75	\$155.25
		Standby Time			
5/8/23	03221185.0222	Trip Charge, each	1.00	\$30.00	\$30.00
5/8/23	03221185.0222	Making & Furnishing Beams (3 per set), per set	2.00	\$125.00	\$250.00
5/8/23	03221185.0222	Concrete Beams, Storing and/or Testing, per beam	6.00	\$26.00	\$156.00
5/9/23	03221185.0223	Foundation Technician, per hour	2.00	\$51.75	\$103.50
		Standby Time			
5/9/23	03221185.0223	Trip Charge, each	1.00	\$30.00	\$30.00
5/9/23	03221185.0223	Making & Furnishing Beams (3 per set), per set	1.00	\$125.00	\$125.00
5/9/23	03221185.0223	Concrete Beams, Storing and/or Testing, per beam	3.00	\$26.00	\$78.00
5/10/23	03221185.0224	Foundation Technician, per hour	2.00	\$51.75	\$103.50
		Standby Time			
5/10/23	03221185.0224	Trip Charge, each	1.00	\$30.00	\$30.00
5/10/23	03221185.0224	Making & Furnishing Beams (3 per set), per set	1.00	\$125.00	\$125.00
5/10/23	03221185.0224	Concrete Beams, Storing and/or Testing, per beam	3.00	\$26.00	\$78.00
5/11/23	03221185.0225	Foundation Technician, per hour	1.00	\$51.75	\$51.75
		Standby Time			
5/11/23	03221185.0225	Trip Charge, each	1.00	\$30.00	\$30.00
5/11/23	03221185.0225	Making & Furnishing Beams (3 per set), per set	1.00	\$125.00	\$125.00
5/11/23	03221185.0225	Concrete Beams, Storing and/or Testing, per beam	3.00	\$26.00	\$78.00
5/12/23	03221185.0226	Foundation Technician, per hour	1.00	\$51.75	\$51.75
		Standby Time			
5/12/23	03221185.0226	Trip Charge, each	1.00	\$30.00	\$30.00
5/12/23	03221185.0226	Making & Furnishing Beams (3 per set), per set	1.00	\$125.00	\$125.00
5/12/23	03221185.0226	Concrete Beams, Storing and/or Testing, per beam	3.00	\$26.00	\$78.00
5/13/23	03221185.0226A	Trip Charge, each	1.00	\$30.00	\$30.00
5/16/23	03221185.0229	Foundation Technician, per hour	2.00	\$51.75	\$103.50
		Standby Time			

TERMS: DUE UPON PRESENTATION OF INVOICE



INVOICE

Adjusted on 6/23/2023

Invoice No.: TJ52192A
 Project No.: 03221185
 Project: Rehabilitation-Reconstruction of
 Runway 13-31 Phase II
 Will Rogers World Airport
 Oklahoma City, OK 73159

Project Mgr: Nick Schuessler

Date	Report	Description of Services	Quantity	Rate	Total
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Continued

Previous Items

5/16/23	03221185.0229	Trip Charge, each	1.00	\$30.00	\$30.00
5/16/23	03221185.0229	Making & Furnishing Beams (3 per set), per set	1.00	\$125.00	\$125.00
5/16/23	03221185.0229	Concrete Beams, Storing and/or Testing, per beam	3.00	\$26.00	\$78.00
5/17/23	03221185.0230	Foundation Technician, per hour	3.50	\$51.75	\$181.13
		Standby Time			
5/17/23	03221185.0230	Trip Charge, each	1.00	\$30.00	\$30.00
5/17/23	03221185.0230	Making & Furnishing Beams (3 per set), per set	1.00	\$125.00	\$125.00
5/17/23	03221185.0230	Concrete Beams, Storing and/or Testing, per beam	1.00	\$26.00	\$26.00
5/18/23	03221185.0231	Foundation Technician, per hour	4.50	\$51.75	\$232.88
		Standby Time			
5/18/23	03221185.0231	Trip Charge, each	1.00	\$30.00	\$30.00
5/18/23	03221185.0231	Making & Furnishing Beams (3 per set), per set	1.00	\$125.00	\$125.00
5/18/23	03221185.0231	Concrete Beams, Storing and/or Testing, per beam	3.00	\$26.00	\$78.00
5/19/23	03221185.0232	Foundation Technician, per hour	2.00	\$51.75	\$103.50
		Standby Time			
5/19/23	03221185.0232	Trip Charge, each	1.00	\$30.00	\$30.00
5/19/23	03221185.0232	Making & Furnishing Beams (3 per set), per set	1.00	\$125.00	\$125.00
5/19/23	03221185.0232	Concrete Beams, Storing and/or Testing, per beam	3.00	\$26.00	\$78.00
5/20/23	03221185.0232A	Trip Charge, each	1.00	\$30.00	\$30.00
5/25/23	03221185.0234	Trip Charge, each	1.00	\$30.00	\$30.00
5/25/23	03221185.0234	Field Density Test by Nuclear Method, (2 Test Minimum), each	2.00	\$50.00	\$100.00
5/25/23	03221185.0235	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
5/25/23	03221185.0235	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
5/26/23	03221185.0235A	Trip Charge, each	1.00	\$30.00	\$30.00
5/30/23	03221185.0237	Trip Charge, each	1.00	\$30.00	\$30.00
5/30/23	03221185.0237	Field Density Test by Nuclear Method, (2 Test Minimum), each	4.00	\$50.00	\$200.00
5/31/23	03221185.0238	Trip Charge, each	1.00	\$30.00	\$30.00
5/31/23	03221185.0238	Field Density Test by Nuclear Method, (2 Test Minimum), each	2.00	\$50.00	\$100.00
5/31/23	03221185.0239	Concrete Cylinders 6"x12" (Making and Transporting)	4.00	\$30.00	\$120.00
5/31/23	03221185.0239	Concrete Cylinders 6"x12" (Storing and/or Testing)	4.00	\$16.00	\$64.00
6/1/23	03221185.0240	Trip Charge, each	1.00	\$30.00	\$30.00
6/1/23	03221185.0240	Field Density Test by Nuclear Method, (2 Test Minimum), each	2.00	\$50.00	\$100.00
6/2/23	03221185.0241	Trip Charge, each	1.00	\$30.00	\$30.00
6/2/23	03221185.0241	Field Density Test by Nuclear Method, (2 Test Minimum), each	2.00	\$50.00	\$100.00
Previous Items Total					\$4,542.76

TERMS: DUE UPON PRESENTATION OF INVOICE

CONCRETE COMPRESSIVE STRENGTH TEST REPORT



Report Number: 03221185.0008
Service Date: 01/05/23
Report Date: 02/03/23 Revision 3 - 28-day results
Task: Exploration-Field Services

4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453

Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: A405A3MF
Supplier: Dolese
Batch Time: 1221 **Plant:** 255
Truck No.: 338 **Ticket No.:** 25537550

Sample Information

Sample Date: 01/05/23 **Sample Time:** 1315
Sampled By: Joshua Dwaileebe
Weather Conditions: Clear and sunny
Accumulative Yards: 6/27 **Batch Size (cy):** 6
Placement Method: Bucket & lift
Water Added Before (gal): 0
Water Added After (gal): 0
Sample Location: At SE Corner of Section Placed
Placement Location: RCB Floor:- 2+75 - 3+90

Field Test Data

Test	Result	Specification
Slump (in):	4 1/2	Max 6
Air Content (%):	7.0	* 4.3 - 6.7
Concrete Temp. (F):	68	
Ambient Temp. (F):	53	
Plastic Unit Wt. (pcf):	141.3	

Yield (Cu. Yds.):

* = Field Test Results do not meet project specifications.

Laboratory Test Data

Set No.	Spec ID	Cyl. Cond.	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Comp Strength (psi)	Frac Type	Tested By
1	A	Good	6.00	28.27	01/09/23	01/12/23	7	95,000	3,360	5	SSW
1	B	Good	6.00	28.27	01/09/23	02/02/23	28	122,050	4,320	2	MSB
1	C	Good	6.00	28.27	01/09/23	02/02/23	28	120,640	4,270	2	MSB
Average (28 days)									4,290		
1	D				01/09/23		Hold				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Sample Description: 6-inch diameter cylinders

Comments: Average compressive strength of 28 day cylinders complies with the specified strength.

Note: Reported air content does not include Aggregate Correction Factor (ACF).

Samples Made By: Terracon

Services: Obtain samples of fresh concrete at the placement locations (ASTM C-172), perform required field tests and cast, cure, and test compressive strength samples (ASTM C-31).

Terracon Rep.: Joshua Dwaileebe

Reported To: Doug Fletcher with Macarthur

Contractor: Duit Construction

Report Distribution:

(1) City of Oklahoma City Airport Trust,
Jarvis.carter@okc.gov
(1) City of Oklahoma City Airport Trust,
SPappas@macokc.com
(1) Macarthur Associated Consultants LLC,
dfletcher@macokc.com
(1) RDM International Inc,
mdiffin@rdmintlinc.com

(1) City of Oklahoma City Airport Trust,
john.storms@okc.gov
(1) Macarthur Associated Consultants LLC,
ccapra@macokc.com
(1) Macarthur Associated Consultants LLC,
jharbaugh@macokc.com

Reviewed By:

Nicholas R. Schuessler
Department Manager

Test Methods: ASTM C39, ASTM C143, ASTM C231, ASTM C511, ASTM C1064, ASTM C1231, ASTM C31

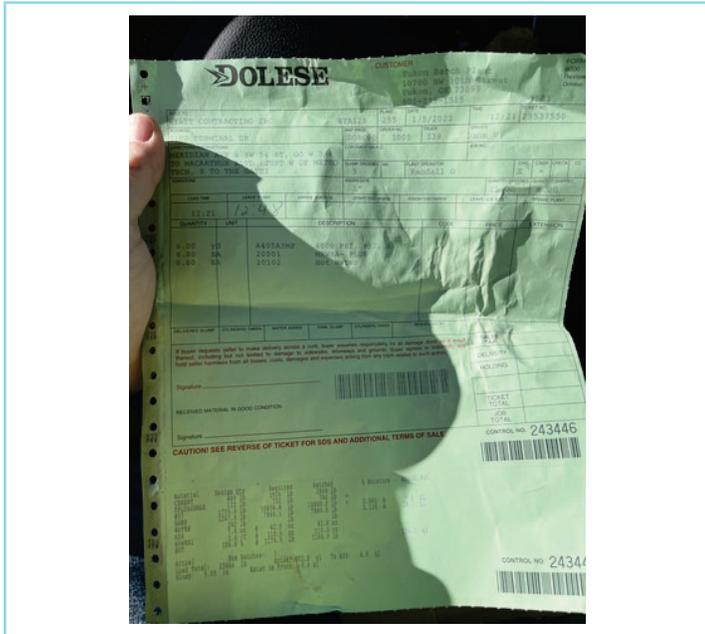
The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

Photo Log

Report Number: 03221185.0008
Service Date: 01/05/23
Report Date: 02/03/23 Revision 3 - 28-day results
Task: Exploration-Field Services



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453



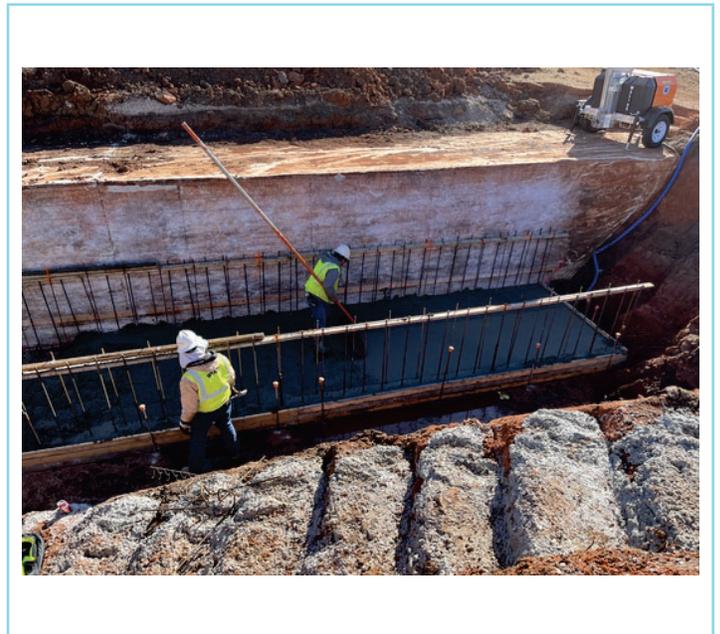
(P1) Dispatch ticket.



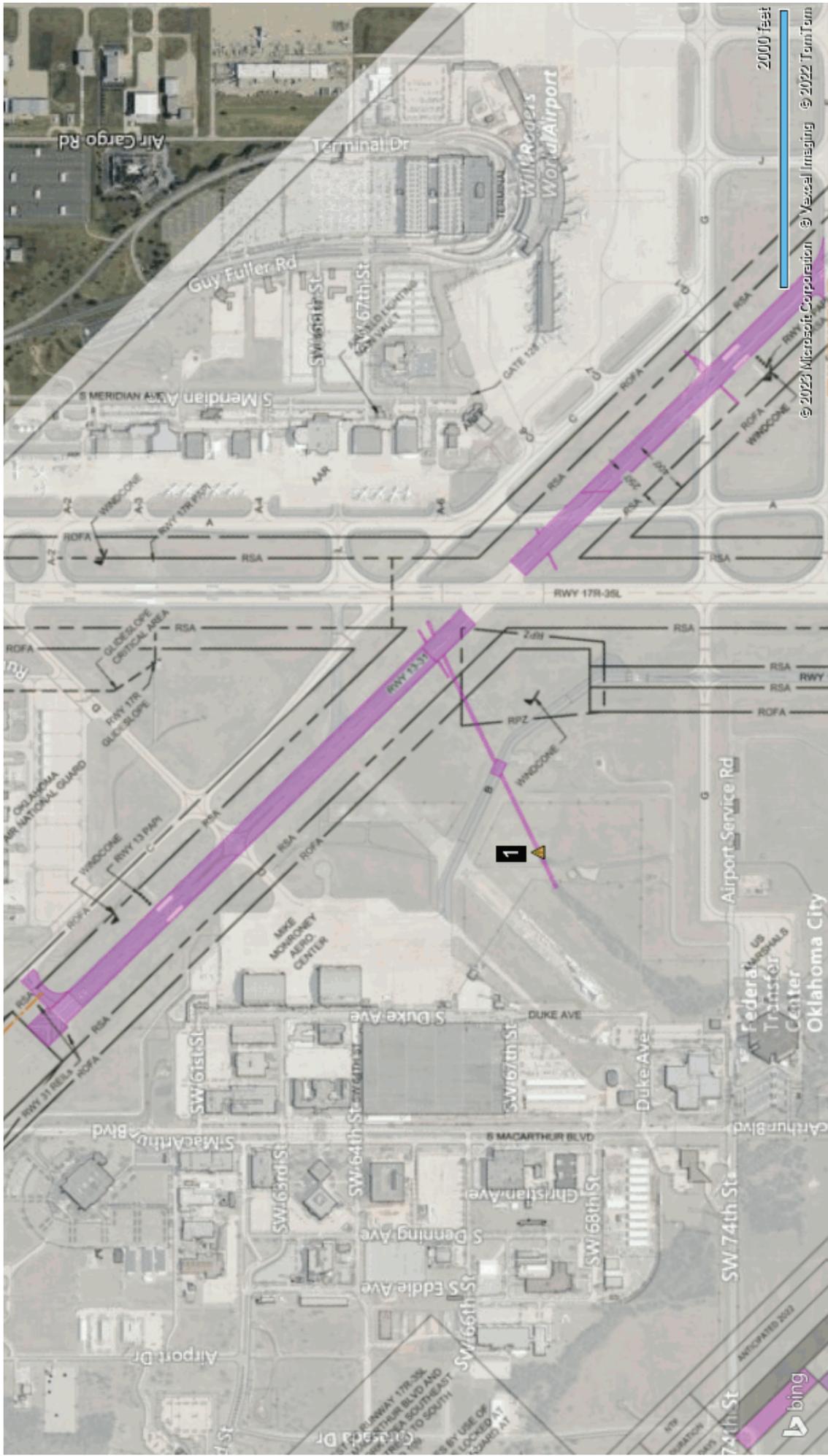
(P3) Location before pour



(P2) Cylinder storage location



(P4) Location during pour.



Exhibit

A-1

Rehabilitation-Reconstruction of Runway 13-31 Phase II

Concrete Compressive Strength Test



Oklahoma City, OK
4701 N Stiles Ave
73105-3330
405-525-0453
terracon.com

Employee: Dwaileebe, Joshua

Service Date: 01/05/2023

Scale: Refer to Drawing

Test

-  Retested / Accepted
-  Deviation



Report Number: 03221.185.0008

Service Date: 01/05/2023

Employee: Dwaileebe, Joshua

Scale: Refer to Drawing

CANCELLED SERVICE REPORT

Report Number: 03221185.0053
Service Date: 02/09/23
Report Date: 02/13/23
Task: Exploration-Field Services



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453

Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Cancellation Information

A Terracon Consultants, Inc. field representative was dispatched for asphalt observations and sampling as requested by Doug Fletcher with Macarthur. After a requested standby Doug Fletcher with Macarthur informed our representative that our services were not needed on this date due to equipment breakdown.



Services:

Terracon Rep.: Puzia, Bryan
Reported To: Doug Fletcher with Macarthur
Contractor: Duit Construction
Report Distribution:
See attached distribution list.

Reviewed By:

Nicholas R. Schuessler
Department Manager

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CANCELLED SERVICE REPORT

Report Number: 03221185.0064
Service Date: 02/14/23
Report Date: 02/16/23
Task: Exploration-Field Services



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453

Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Cancellation Information

A Terracon Consultants, Inc. field representative was dispatched for asphalt sample pickup as requested by Doug Fletcher with Macarthur. After a requested standby Doug Fletcher with MacArthur informed our representative that our services were not needed on this date due to not being prepared for testing.



Services:

Terracon Rep.: Christopher Stowe
Reported To: Doug Fletcher with Macarthur
Contractor: TJ Campbell
Report Distribution:
See attached distribution list.

Reviewed By:

Nicholas R. Schuessler
Department Manager

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CONCRETE COMPRESSIVE STRENGTH TEST REPORT



Report Number: 03221185.0088
Service Date: 02/23/23
Report Date: 03/23/23 Revision 2 - 28-day results
Task: Exploration-Field Services

4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453

Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Material Information

Specified Strength: 4,000 psi @ 28 days
Mix ID: A405A3MF
Supplier: Dolese
Batch Time: 1244 **Plant:** 255
Truck No.: 197 **Ticket No.:** 25538634

Sample Information

Sample Date: 02/23/23 **Sample Time:** 1345
Sampled By: Puzia, Bryan
Weather Conditions: Clear
Accumulative Yards: 10.5/40 **Batch Size (cy):** 10.5
Placement Method: Bucket & lift
Water Added Before (gal): 0
Water Added After (gal): 0
Sample Location: St 13+20
Placement Location: RCB Bottom Slab, 3rd Floor Sections, St 13+69 - 14+85.
Sample Description: 6-inch diameter cylinders

Field Test Data

Test	Result	Specification
Slump (in):	5 1/4	Max 6
Air Content (%):	6.2	4.3 - 6.7
Concrete Temp. (F):	66	
Ambient Temp. (F):	35	
Plastic Unit Wt. (pcf):	147.8	
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Spec ID	Cyl. Cond.	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Comp Strength (psi)	Frac Type	Tested By
1	A	Good	6.00	28.27	02/27/23	03/02/23	7	78,220	2,770	2	MSB
1	B	Good	6.00	28.27	02/27/23	03/23/23	28	108,270	3,830	5	SSW
1	C	Good	6.00	28.27	02/27/23	03/23/23	28	103,510	3,660	2	SSW
Average (28 days)									3,750	*	
1	D		6.00	28.27	02/27/23	04/20/23	56				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments: * Average compressive strength of 28 day cylinders does not comply with the specified strength.

Note: Reported air content does not include Aggregate Correction Factor (ACF).

Samples Made By: Terracon

Services: Obtain samples of fresh concrete at the placement locations (ASTM C-172), perform required field tests and cast, cure, and test compressive strength samples (ASTM C-31).

Terracon Rep.: Puzia, Bryan

Reported To: Doug Fletcher with Macarthur

Contractor: Duit Construction

Report Distribution:

See attached distribution list.

Reviewed By:

Nicholas R. Schuessler
Department Manager

Test Methods: ASTM C39, ASTM C143, ASTM C231, ASTM C511, ASTM C1064, ASTM C1231, ASTM C31

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

Photo Log

Report Number: 03221185.0088
Service Date: 02/23/23
Report Date: 03/23/23 Revision 2 - 28-day results
Task: Exploration-Field Services



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453



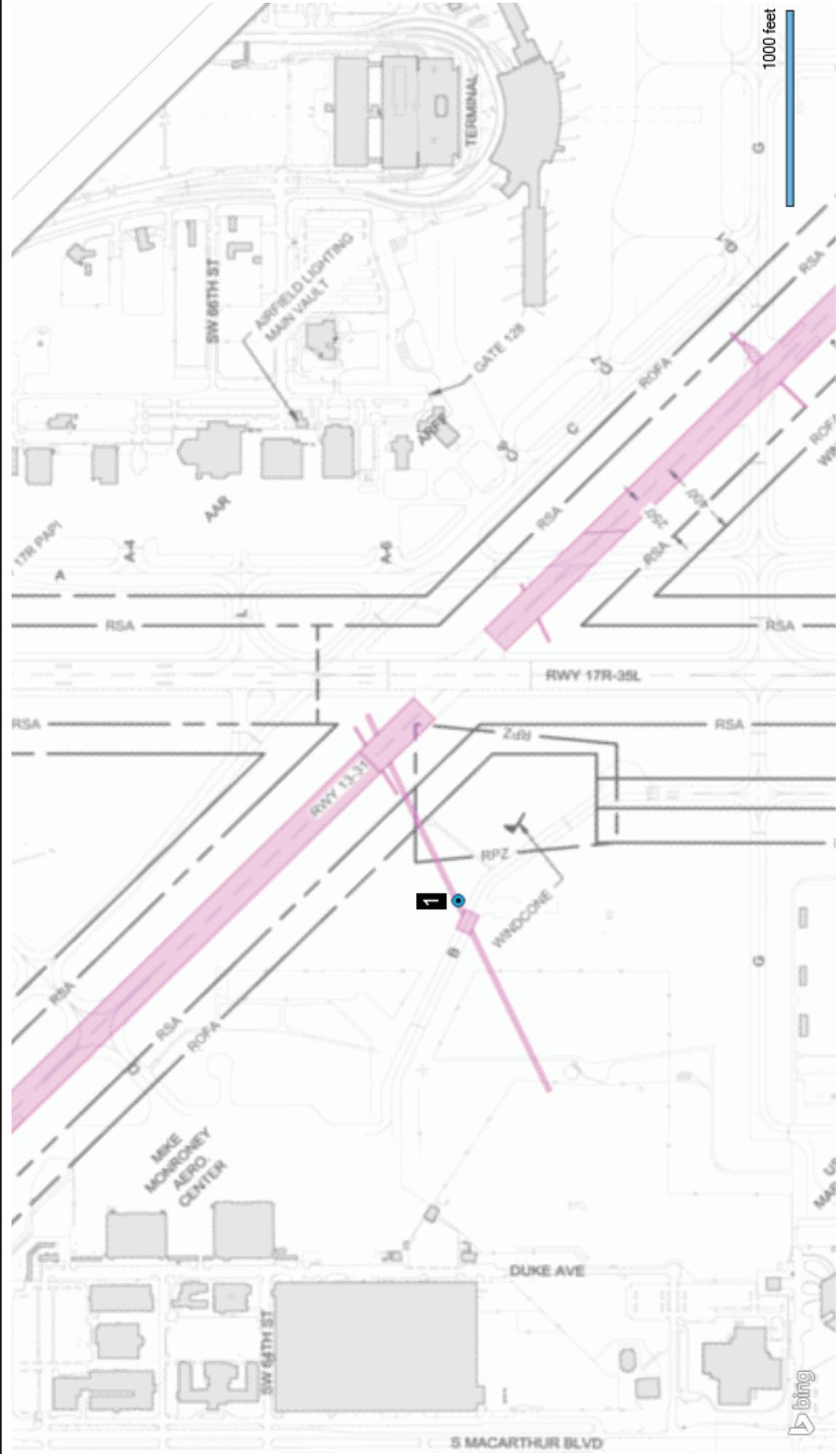
(P1) RCB Slab



(P3) 1st Truck Ticket



(P2) RCB Slab



Exhibit

A-1

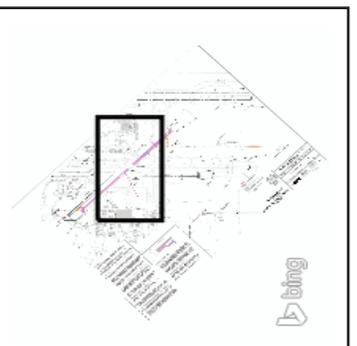
Rehabilitation-Reconstruction of Runway 13-31 Phase II

Concrete Compressive Strength Test

terracon
 Oklahoma City, OK
 4701 N Stiles Ave 73105-3330
 405-525-0453 terracon.com

Report Number: 03221.185.0088
 Service Date: 02/23/2023
 Employee: Puzia, Bryan
 Scale: Refer to Drawing

- Test
- Retested / Accepted
 - Deviation



Distribution Page

Report Number: 03221185.0088

Service Date: 02/23/23

Report Date: 03/23/23 Revision 2 - 28-day results

Task: Exploration-Field Services



4701 N Stiles Ave

Oklahoma City, OK 73105-3330

405-525-0453

Distribution List

- (1) City of Oklahoma City Airport Trust, Jarvis.carter@okc.gov
- (1) City of Oklahoma City Airport Trust, john.storms@okc.gov
- (1) City of Oklahoma City Airport Trust, SPappas@macokc.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Duit Construction Co Inc, johnp@duitconstruction.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Macarthur Associated Consultants LLC, ccapra@macokc.com
- (1) Macarthur Associated Consultants LLC, dfletcher@macokc.com
- (1) Macarthur Associated Consultants LLC, jharbaugh@macokc.com
- (1) RDM International Inc, mdiffin@rdmintlinc.com

CONCRETE COMPRESSIVE STRENGTH TEST REPORT



Report Number: 03221185.0098
Service Date: 02/28/23
Report Date: 03/28/23 Revision 1 - 28-day results
Task: Exploration-Field Services

4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453

Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: A405A3MF
Supplier: Dolese
Batch Time: 1213
Truck No.: 262
Plant:
Ticket No.: 25538733

Sample Information

Sample Date: 02/28/23 **Sample Time:** 1300
Sampled By: Christopher Stowe
Weather Conditions: Clear, windy
Accumulative Yards: 10.5/48 **Batch Size (cy):** 10.5
Placement Method: Bucket & lift
Water Added Before (gal): 0
Water Added After (gal): 0
Sample Location: Exterior Wall St 11+34 to 11+95
Placement Location: RCB
Exterior Wall St 11+34 - 11+95,
Interior Wall St 11+95 - 12+53
(2) Floor St 13+69 - 14+85
Sample Description: 6-inch diameter cylinders

Field Test Data

Test	Result	Specification
Slump (in):	6	Max 6
Air Content (%):	6.2	4.3 - 6.7
Concrete Temp. (F):	66	
Ambient Temp. (F):	73	
Plastic Unit Wt. (pcf):	140.6	
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Spec ID	Cyl. Cond.	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Comp Strength (psi)	Frac Type	Tested By	
1	A	Good	6.00	28.27	03/02/23	03/07/23	7	87,660	3,100	2	MSB	
1	B	Good	6.00	28.27	03/02/23	03/28/23	28	109,610	3,880	2	SSW	
1	C	Good	6.00	28.27	03/02/23	03/28/23	28	110,990	3,930	2	SSW	
									Average (28 days)	3,900	*	
1	D		6.00	28.27	03/02/23	04/25/23	56					

Initial Cure: Covered with Plastic

Final Cure: Moist Room

Comments: * Average compressive strength of 28 day cylinders does not comply with the specified strength.

Note: Reported air content does not include Aggregate Correction Factor (ACF).

Samples Made By: Terracon

Services: Obtain samples of fresh concrete at the placement locations (ASTM C-172), perform required field tests and cast, cure, and test compressive strength samples (ASTM C-31).

Terracon Rep.: Christopher Stowe

Reported To: Doug Fletcher with Macarthur

Contractor: Duit Construction

Report Distribution:

See attached distribution list.

Reviewed By:

Nicholas R. Schuessler
Department Manager

Test Methods: ASTM C39, ASTM C143, ASTM C231, ASTM C511, ASTM C1064, ASTM C1231, ASTM C31

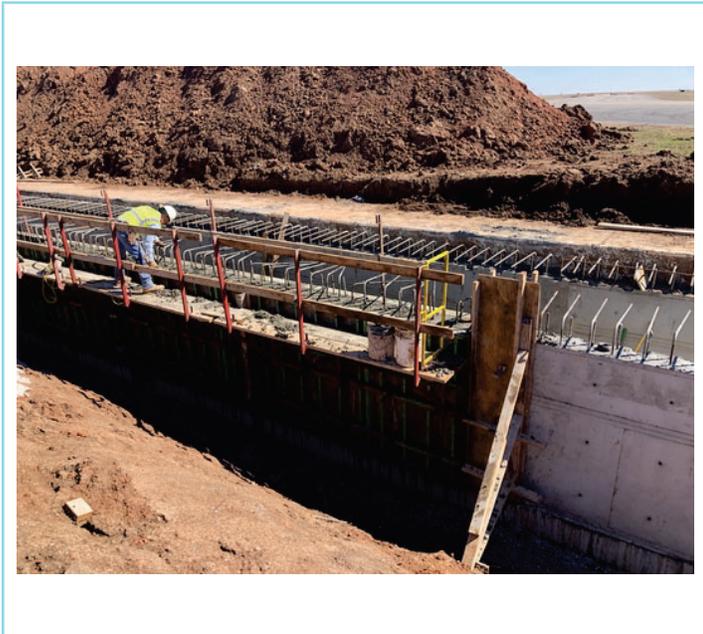
The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

Photo Log

Report Number: 03221185.0098
Service Date: 02/28/23
Report Date: 03/28/23 Revision 1 - 28-day results
Task: Exploration-Field Services



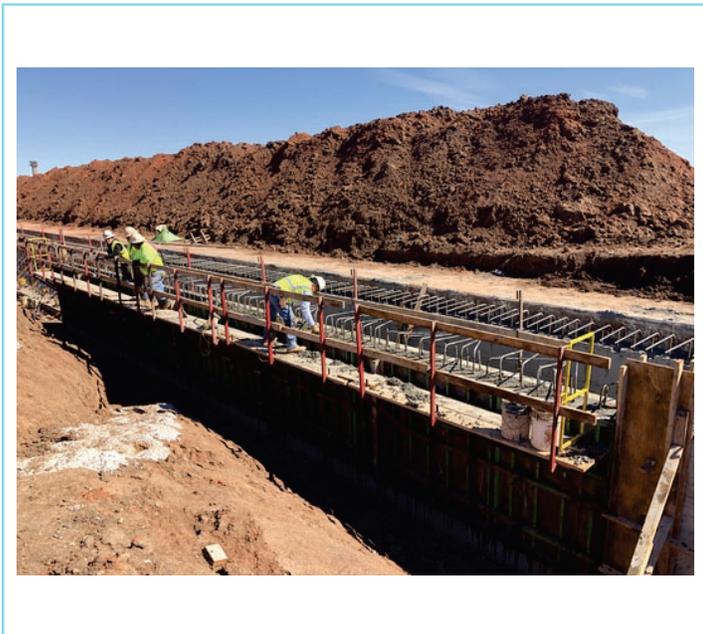
4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453



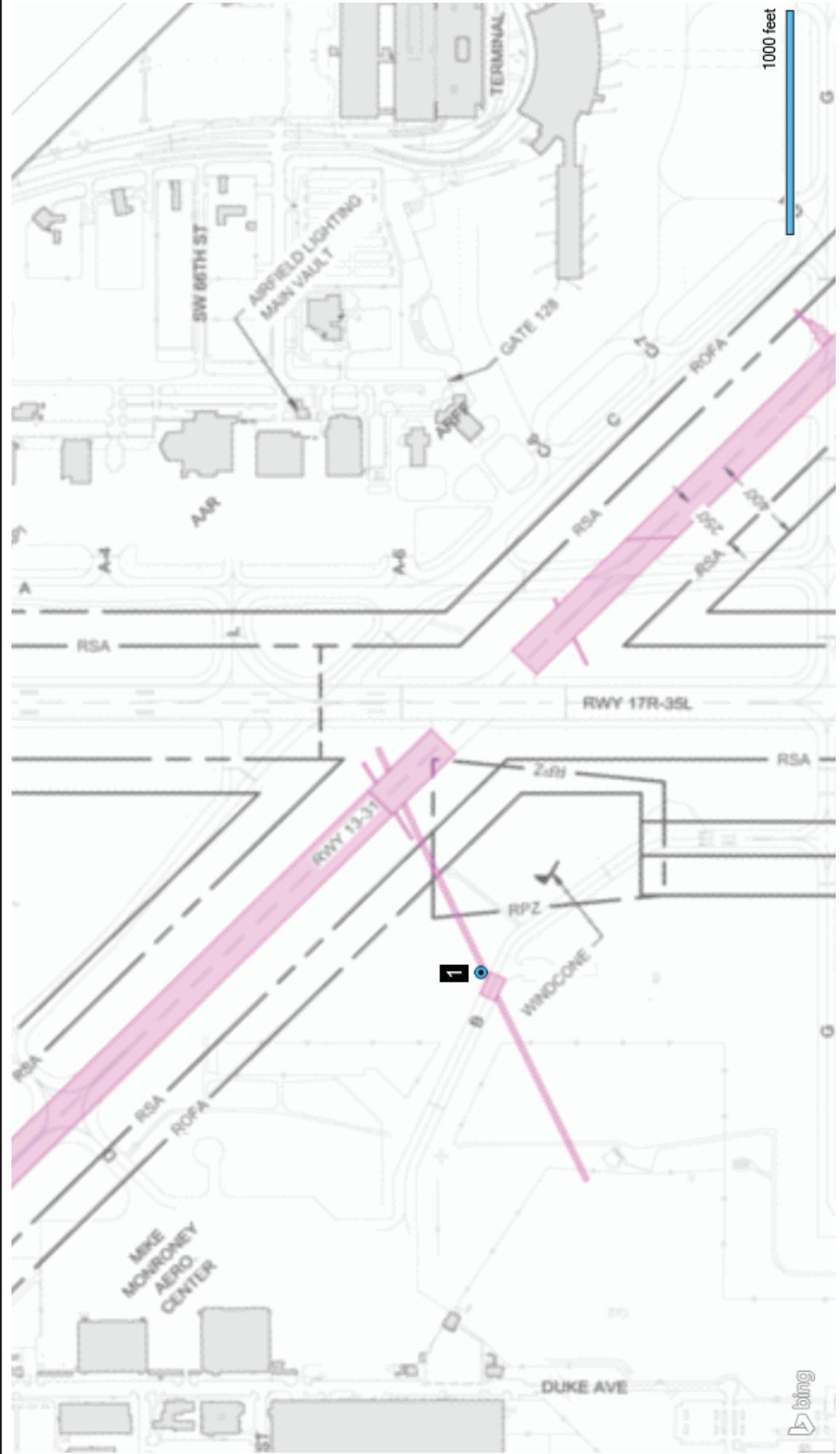
(P1) Sample area



(P3) Test 1



(P2) Placement area



Exhibit

A-1

Rehabilitation-Reconstruction of Runway 13-31 Phase II

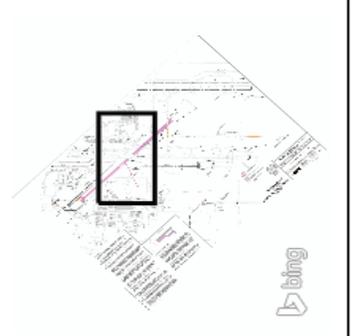
Concrete Compressive Strength Test



4701 N Stiles Ave
 Oklahoma City, OK
 73105-3330
 405-525-0453
 terracon.com

Report Number: 03221.185.0098	Service Date: 02/28/2023	Employee: Stowe, Chris	Scale: Refer to Drawing
----------------------------------	-----------------------------	---------------------------	----------------------------

- Test
-  Retested / Accepted
 -  Deviation



Distribution Page

Report Number: 03221185.0098

Service Date: 02/28/23

Report Date: 03/28/23 Revision 1 - 28-day results

Task: Exploration-Field Services



4701 N Stiles Ave

Oklahoma City, OK 73105-3330

405-525-0453

Distribution List

- (1) City of Oklahoma City Airport Trust, Jarvis.carter@okc.gov
- (1) City of Oklahoma City Airport Trust, john.storms@okc.gov
- (1) City of Oklahoma City Airport Trust, SPappas@macokc.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Duit Construction Co Inc, johnp@duitconstruction.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Macarthur Associated Consultants LLC, ccapra@macokc.com
- (1) Macarthur Associated Consultants LLC, dfletcher@macokc.com
- (1) Macarthur Associated Consultants LLC, jharbaugh@macokc.com
- (1) RDM International Inc, mdiffin@rdmintlinc.com

CONCRETE COMPRESSIVE STRENGTH TEST REPORT



Report Number: 03221185.0113
Service Date: 03/07/23
Report Date: 04/05/23 Revision 2 - 28-day results
Task: Exploration-Field Services

4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453

Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: A405A3MF
Supplier: Dolese
Batch Time: 1251
Truck No.: 197
Plant:
Ticket No.: 25538996

Sample Information

Sample Date: 03/07/23 **Sample Time:** 1330
Sampled By: Joshua Dwaileebe
Weather Conditions: Cloudy
Accumulative Yards: 10.5/52.51 **Batch Size (cy):** 10.5
Placement Method: +ucket & lift
Water Added Before (gal): 0
Water Added After (gal): 0
Sample Location: +ottom 1/4 of interior wall station 14B27
Placement Location: Interior RC+ Wall St 14B27 - 14B85,
Deck St 10B74 - St 11B95
Sample Description: 6-inch diameter cylinders

Field Test Data

Test	Result	Specification
Slump (in):	6	Max 6
Air Content (%):	6.7	4.3 - 6.7
Concrete Temp. (F):	72	
Ambient Temp. (F):	49	
Plastic Unit Wt. (pcf):	142.5	
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Spec ID	Cyl. Cond.	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Comp Strength (psi)	Frac Type	Tested By	
1	A	(ood	6.00	28.27	03/09/23	03/14/23	7	90,340	3,200	2	SSW	
1	+	(ood	6.00	28.27	03/09/23	04/04/23	28	109,530	3,870	2	MS+	
1	C	(ood	6.00	28.27	03/09/23	04/04/23	28	111,680	3,950	2	MS+	
									Average (28 days)	3,910	*	
1	D		6.00	28.27	03/09/23	05/02/23	56					
1	E		6.00	28.27	03/09/23	05/02/23	56					

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments: * Average compressive strength of 28 day cylinders does not comply with the specified strength.

Note: Reported air content does not include Aggregate Correction Factor)ACFG

Due to low breaks, the remaining cylinders are being held until 56-days of cure time.

Samples Made By: Terracon

Services: Obtain samples of fresh concrete at the placement locations)ASTM C-172G perform required field tests and cast, cure, and test compressive strength samples)ASTM C-31G

Terracon Rep.: Joshua Dwaileebe

Reported To: Doug Fletcher with Macarthur

Contractor: Duit Construction

Report Distribution:

See attached distribution list.

Reviewed By:

Nicholas R. Schuessler
Department Manager

Test Methods: ASTM C39, ASTM C143, ASTM C231, ASTM C511, ASTM C1064, ASTM C1231, ASTM C31

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location)sGreferenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

Photo Log

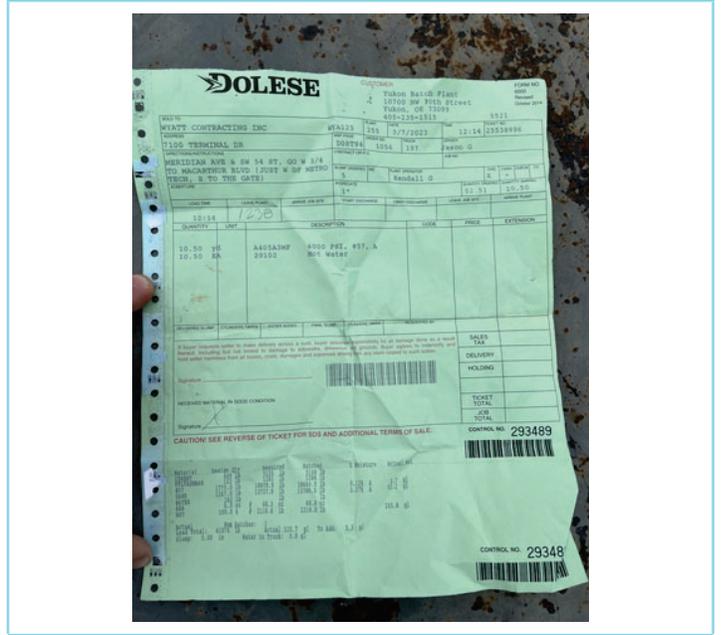
Report Number: 03221185.0113
Service Date: 03/07/23
Report Date: 04/05/23 Revision 2 - 28-day results
Task: Exploration-Field Services



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453



(P1) Area during pour.



(P3) Dispatch ticket.



(P2) Cylinder storage location

Distribution Page

Report Number: 03221185.0113

Service Date: 03/04/23

Report Date: 07/05/23 Revision 2 - 28-day results

Task: Exploration-Field Services



7401 N Stiles Ave

Oklahoma City, OK 43105-3330

705-525-0753

Distribution List

- (1) City of Oklahoma City Airport Trust, Jarvis.carter@okc.gov
- (1) City of Oklahoma City Airport Trust, john.storms@okc.gov
- (1) City of Oklahoma City Airport Trust, SPappas@macokc.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Duit Construction Co Inc, johnp@duitconstruction.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Macarthur Associated Consultants LLC, ccapra@macokc.com
- (1) Macarthur Associated Consultants LLC, dfletcher@macokc.com
- (1) Macarthur Associated Consultants LLC, jharbaugh@macokc.com
- (1) RDM International Inc, mdiffin@rdmintlinc.com

CANCELLED SERVICE REPORT

Report Number: 03221185.0119
Service Date: 03/13/23
Report Date: 03/16/23
Task: Exploration-Field Services



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453

Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Cancellation Information

A Terracon Consultants, Inc. field representative was dispatched for rehabilitation-reconstruction of runway as requested by Doug Fletcher with Macarthur. After a requested standby, Doug Fletcher with Macarthur, informed our representative that our services were not needed on this date due to excessive cold temperatures.



Services:

Terracon Rep.: Joshua Dwaileebe
Reported To: Doug Fletcher with Macarthur
Contractor: Duit Construction
Report Distribution:
See attached distribution list.

Reviewed By:

Nicholas R. Schuessler
Department Manager

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CANCELLED SERVICE REPORT



Report Number: 03221185.0122
Service Date: 03/14/23
Report Date: 03/16/23
Task: Exploration-Field Services

4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453

Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Cancellation Information

A Terracon Consultants, Inc. field representative was dispatched for concrete beam flexural strength test as requested by Doug Fletcher with Macarthur. After a requested standby, Doug Fletcher with Macarthur informed our representative that our services were not needed on this date due to equipment breakdown.



Services:

Terracon Rep.: Joshua Dwaileebe
Reported To: Doug Fletcher with Macarthur
Contractor: Duit Construction
Report Distribution:
See attached distribution list.

Reviewed By:

Nicholas R. Schuessler
Department Manager

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CANCELLED SERVICE REPORT



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453

Report Number: 03221185.0124
Service Date: 03/15/23
Report Date: 03/16/23
Task: Exploration-Field Services

Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Cancellation Information

A Terracon Consultants, Inc. field representative was dispatched for concrete beam flexural strength test as requested by Doug Fletcher with Macarthur. After a requested standby, Doug Fletcher with macarthur, informed our representative that our services were not needed on this date due to equipment breakdown.



Services:

Terracon Rep.: Joshua Dwaileebe
Reported To: Doug Fletcher with Macarthur
Contractor: Duit Construction
Report Distribution:
See attached distribution list.

Reviewed By:

Nicholas R. Schuessler
Department Manager

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CONCRETE COMPRESSIVE STRENGTH TEST REPORT



Report Number: 03221185.0132
Service Date: 03/21/23
Report Date: 04/18/23 Revision 1 - 28-day results
Task: Exploration-Field Services

4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453

Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: A405A3MF
Supplier: Dolese
Batch Time: 1308
Truck No.: 963
Plant:
Ticket No.: 25539386

Sample Information

Sample Date: 03/21/23 **Sample Time:** 1420
Sampled By: Puzia, Bryan
Weather Conditions: cloudy
Accumulative Yards: 16/16 **Batch Size (cy):** 5.5
Placement Method: Bucket & lift
Water Added Before (gal): 0
Water Added After (gal): 0
Sample Location: RCB Deck St 14+90
Placement Location: RCB Deck St 14+85 - 15+43
Sample Description: 6-inch diameter cylinders

Field Test Data

Test	Result	Specification
Slump (in):	5 3/4	Max 6
Air Content (%):	4.8	4.3 - 6.7
Concrete Temp. (F):	68	
Ambient Temp. (F):	55	
Plastic Unit Wt. (pcf):	148.2	
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Spec ID	Cyl. Cond.	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Comp Strength (psi)	Frac Type	Tested By	
1	A	Good	6.00	28.27	03/24/23	03/28/23	7	88,730	3,140	2	SSW	
1	B	Good	6.00	28.27	03/24/23	04/18/23	28	110,390	3,900	2	MSB	
1	C	Good	6.00	28.27	03/24/23	04/18/23	28	108,750	3,850	2	MSB	
1	D		6.00	28.27	03/24/23	04/18/23	28					
1	E		6.00	28.27	03/24/23	05/16/23	56					
Average (28 days)									3,880	*		

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments: * Average compressive strength of 28 day cylinders does not comply with the specified strength.

Note: Reported air content does not include Aggregate Correction Factor (ACF).

Samples Made By: Terracon

Services: Obtain samples of fresh concrete at the placement locations (ASTM C-172), perform required field tests and cast, cure, and test compressive strength samples (ASTM C-31).

Terracon Rep.: Puzia, Bryan

Reported To: Doug Fletcher with Macarthur

Contractor: Duit Construction

Report Distribution:

See attached distribution list.

Reviewed By:

Nicholas R. Schuessler
Department Manager

Test Methods: ASTM C39, ASTM C143, ASTM C231, ASTM C511, ASTM C1064, ASTM C1231, ASTM C31

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

Photo Log

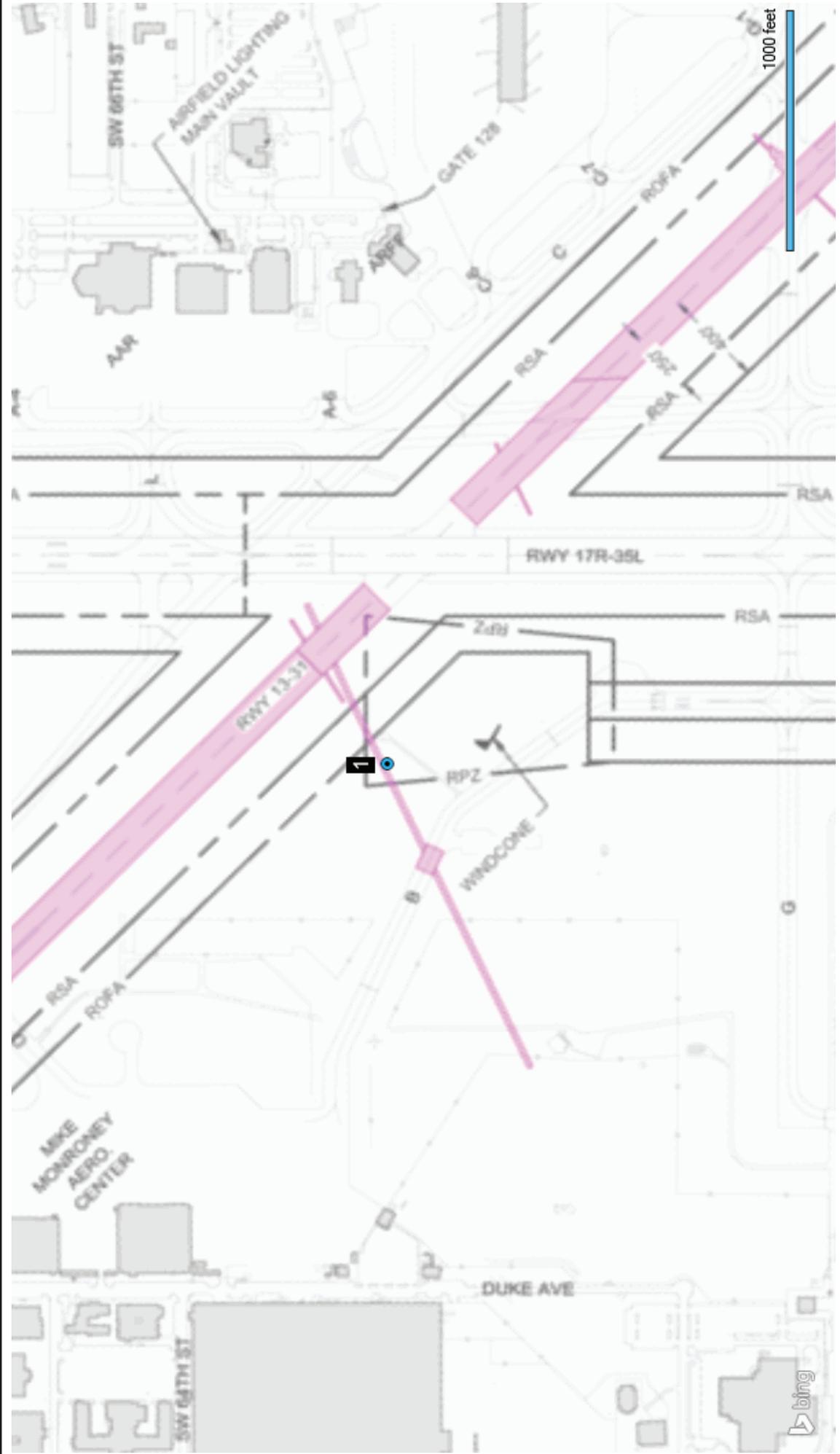
Report Number: 03221185.0132
Service Date: 03/21/23
Report Date: 04/18/23 Revision 1 - 28-day results
Task: Exploration-Field Services



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453



(P1) RCB Deck



Exhibit

A-1

Rehabilitation-Reconstruction of Runway 13-31 Phase II

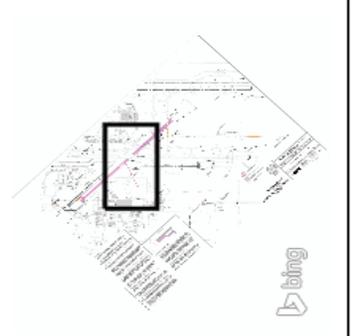
Concrete Compressive Strength Test



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453
terracon.com

Report Number: 03221185.0132	Service Date: 03/21/2023	Employee: Puzia, Bryan	Scale: Refer to Drawing
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- Test
-  Retested / Accepted
 -  Deviation



Distribution Page

Report Number: 03221185.0132

Service Date: 03/21/23

Report Date: 04/18/23 Revision 1 - 28-day results

Task: Exploration-Field Services



4701 N Stiles Ave

Oklahoma City, OK 73105-3330

405-525-0453

Distribution List

- (1) City of Oklahoma City Airport Trust, Jarvis.carter@okc.gov
- (1) City of Oklahoma City Airport Trust, john.storms@okc.gov
- (1) City of Oklahoma City Airport Trust, SPappas@macokc.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Duit Construction Co Inc, johnp@duitconstruction.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Macarthur Associated Consultants LLC, ccapra@macokc.com
- (1) Macarthur Associated Consultants LLC, dfletcher@macokc.com
- (1) Macarthur Associated Consultants LLC, jharbaugh@macokc.com
- (1) RDM International Inc, mdiffin@rdmintlinc.com

CONCRETE BEAM FLEXURAL STRENGTH TEST REPORT

Report Number: 03221185.0137
Service Date: 03/24/23
Report Date: 04/21/23 Revision 2 - b
Task: Exploration-Field Services



Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Material Information

Specified Strength: 650 psi @ 28 days
Mix ID: P-501
Supplier: Duit
Batch Time: 1300 **Plant:** Duit
Truck No.: N/A **Ticket No.:** N/A

Sample Information

Sample Date: 03/24/23 **Sample Time:** 1315
Sampled By: Joshua Dwaileebe
Weather Conditions: Cloudy with light breeze.
Accumulative Yards: N/A **Batch Size (cy):** 10
Placement Method: Direct Discharge
Water Added Before (gal): 0
Water Added After (gal): 0
Samples Were: Molded
Sample Location: Station 61+13 / Lane 6
Placement Location: Lot 2 / Sublot 4, Station 60+29 - 63+45

Field Test Data

Test	Result	Specification
Slump (in):	1 1/4	Max 2
Air Content (%):	5.0	4 - 7
Concrete Temp. (F):	70	
Ambient Temp. (F):	46	
Plastic Unit Wt. (pcf):	146.9	

Laboratory Test Data

(Third-Point Loading)

Set No.	Specimen ID	Average Width (in)	Average Depth (in)	Span Length (in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Modulus of Rupture (psi)	Tested By	
2	A	6.30	6.09	18	03/27/23	03/31/23	7	6,930	535	SSW	
2	B	6.11	5.98	18	03/27/23	04/21/23	28	7,590	625	SSW	
2	C	6.14	6.00	18	03/27/23	04/21/23	28	7,790	635	SSW	
Average (28 days)									630	*	

Bearing Surface: Leather Shims Used

Initial Cure: See Comments

Final Cure: Moist Room

Comments: * Average flexural strength of 28 day beams does not comply with the specified strength.

Note: Reported air content does not include Aggregate Correction Factor (ACF).

Samples Made By: Terracon

Services: Obtain samples of fresh concrete (ASTM C-172) at the placement locations, perform required field tests and cast, cure and test flexural strength samples (ASTM C-31, C-78 or C-293).

Terracon Rep.: Joshua Dwaileebe

Reported To: Doug Fletcher with Macarthur

Contractor: Duit Construction

Report Distribution:

See attached distribution list.

Test ASTM C78, ASTM C511

Methods: The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently

Photo Log

Report Number: 03221185.0137
Service Date: 03/24/23
Report Date: 04/21/23 Revision 2 - b
Task: Exploration-Field Services



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453



(P1) Area before pour.



(P1) Location during pour.



(P1) Location during pour.



(P1) Location after pour.

Photo Log

Report Number: 03221185.0137
Service Date: 03/24/23
Report Date: 04/21/23 Revision 2 - b
Task: Exploration-Field Services



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453



(P2) Beam storage location.

Distribution Page

Report Number: 03221185.013/

Service Date: 03427423

Report Date: 07421423 Revision 2 - u

Task: Exploration-Field Services



7/01 N Stiles Ave

Oklahoma City, OK / 3105-3330

705-525-0753

Distribution List

- (1) City of Oklahoma City Airport TrJst, @rvis.carterg okc.j ov
- (1) City of Oklahoma City Airport TrJst, Pohn.stormsg okc.j ov
- (1) City of Oklahoma City Airport TrJst, SDappasg macokc.com
- (1) I J it ConstrJction Co Mhc, Pavinog dJitconstrJction.com
- (1) I J it ConstrJction Co Mhc, Pohnpg dJitconstrJction.com
- (1) I J it ConstrJction Co Mhc, Pavinog dJitconstrJction.com
- (1) L acarthJr Associated ConsJltants bbC, ccaprag macokc.com
- (1) L acarthJr Associated ConsJltants bbC, dfletcherg macokc.com
- (1) L acarthJr Associated ConsJltants bbC, PharuaJj hg macokc.com
- (1) RI L Mternational Mhc, mdiffing rdmintlinc.com

CONCRETE COMPRESSIVE STRENGTH TEST REPORT



Report Number: 03221185.0145
Service Date: 03/29/23
Report Date: 04/27/23 Revision 1 - 28-day results
Task: Exploration-Field Services

4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453

Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: A405A3MF
Supplier: Dolese
Batch Time: 1235
Truck No.: 141
Plant:
Ticket No.: 23340670

Sample Information

Sample Date: 03/29/23 **Sample Time:** 1345
Sampled By: Puzia, Bryan
Weather Conditions: Clear
Accumulative Yards: 10.5/38 **Batch Size (cy):** 10.5
Placement Method: Bucket & lift
Water Added Before (gal): 0
Water Added After (gal): 0
Sample Location: Exterior Wall St 18+40
Placement Location: Exterior Wall St 18+00 - 18+51 and Foundation Structure St 8+70 - 8+90
Sample Description: 6-inch diameter cylinders

Field Test Data

Test	Result	Specification
Slump (in):	4 3/4	Max 6
Air Content (%):	5.2	4.3 - 6.7
Concrete Temp. (F):	69	
Ambient Temp. (F):	63	
Plastic Unit Wt. (pcf):	146.5	
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Spec ID	Cyl. Cond.	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Comp Strength (psi)	Frac Type	Tested By	
1	A	Good	6.00	28.27	03/31/23	04/05/23	7	84,130	2,980	2	MSB	
1	B	Good	6.00	28.27	03/31/23	04/26/23	28	111,660	3,950	2	MSB	
1	C	Good	6.00	28.27	03/31/23	04/26/23	28	109,130	3,860	5	MSB	
									Average (28 days)	3,900	*	
1	D		6.00	28.27	03/31/23	05/24/23	56					
1	E		6.00	28.27	03/31/23	05/24/23	56					

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments: * Average compressive strength of 28 day cylinders does not comply with the specified strength.

Note: Reported air content does not include Aggregate Correction Factor (ACF).

Samples Made By: Terracon

Services: Obtain samples of fresh concrete at the placement locations (ASTM C-172), perform required field tests and cast, cure, and test compressive strength samples (ASTM C-31).

Terracon Rep.: Puzia, Bryan

Reported To: Doug Fletcher with Macarthur

Contractor: Wyatt

Report Distribution:

See attached distribution list.

Reviewed By:

Nicholas R. Schuessler
Department Manager

Test Methods: ASTM C39, ASTM C143, ASTM C231, ASTM C511, ASTM C1064, ASTM C1231, ASTM C31

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

Photo Log

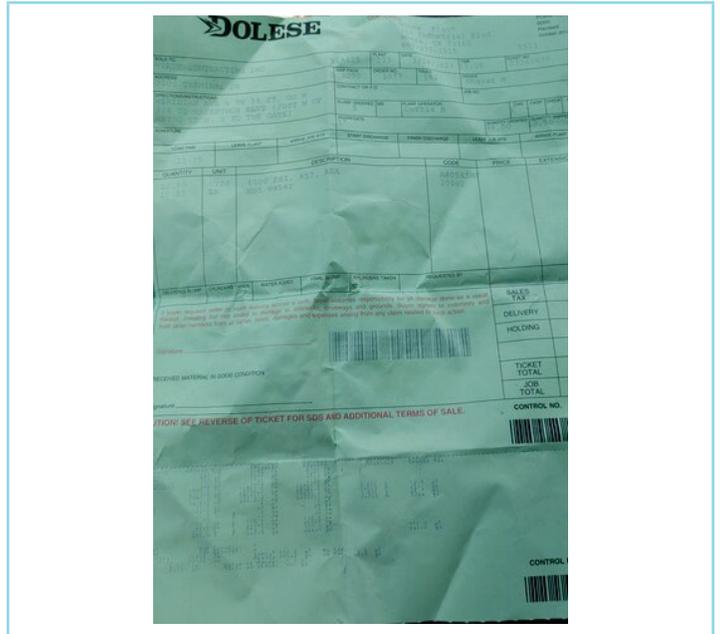
Report Number: 03221185.0145
Service Date: 03/29/23
Report Date: 04/27/23 Revision 1 - 28-day results
Task: Exploration-Field Services



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453



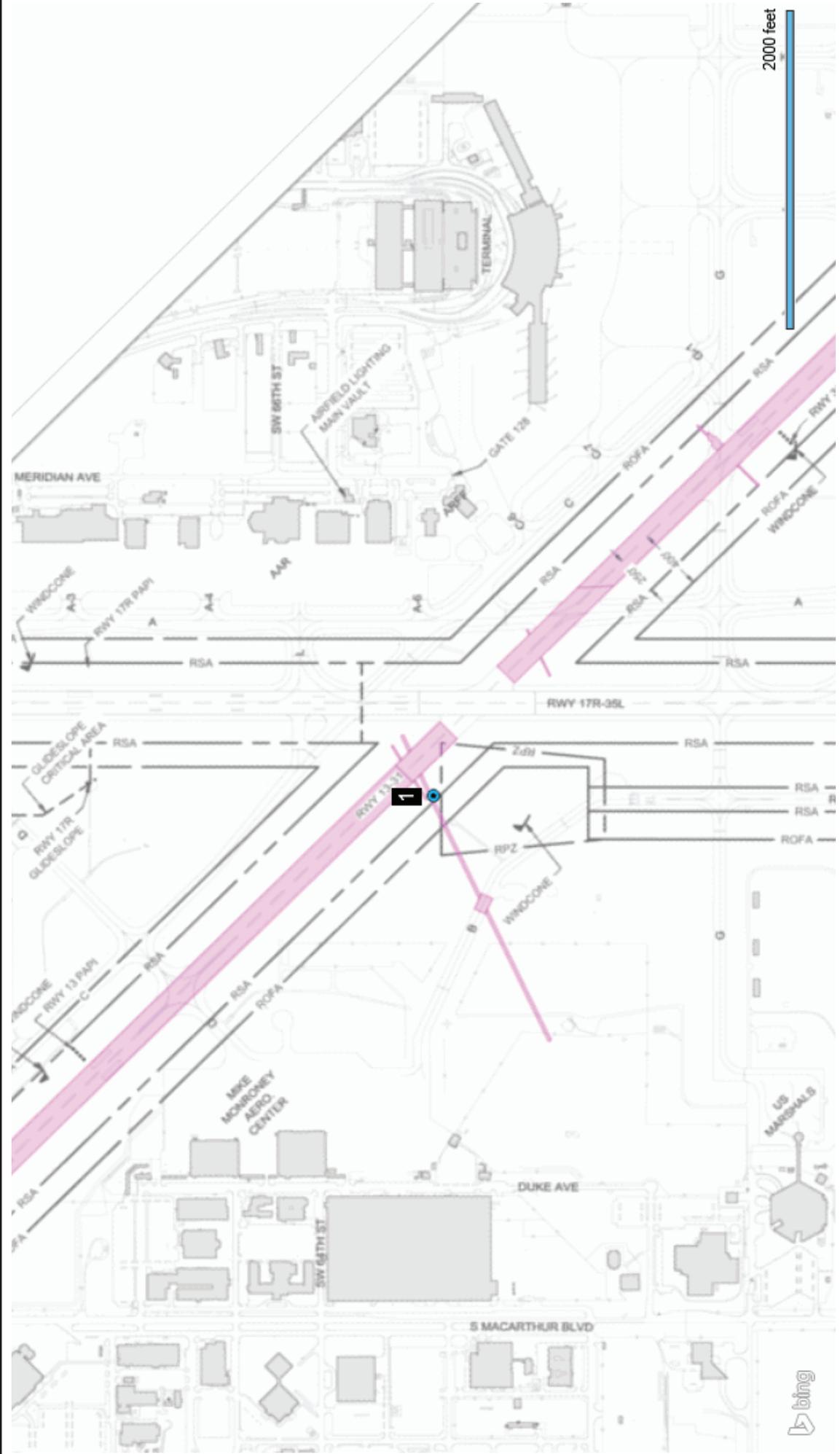
(P1) RCB Walls



(P3) RCB Walls



(P2) RCB Walls



Exhibit

A-1

Rehabilitation-Reconstruction of Runway 13-31 Phase II

Concrete Compressive Strength Test

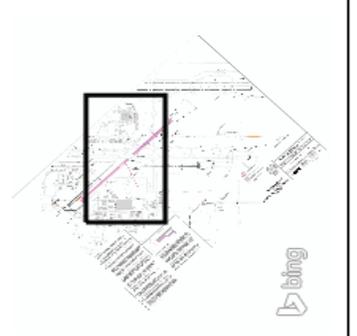


Oklahoma City, OK
73105-3330
terracon.com

4701 N Stiles Ave
405-525-0453

Report Number: 03221185.0145	Service Date: 03/29/2023	Employee: Puzia, Bryan	Scale: Refer to Drawing
---------------------------------	-----------------------------	---------------------------	----------------------------

- Test
-  Retested / Accepted
 -  Deviation



Distribution Page

Report Number: 03221185.0195

Service Date: 03/24/23

Report Date: 09/27/23 Revision 1 - 28-day results

Task: Exploration-Field Services



9701 N Stiles Ave

Oklahoma City, OK 73105-3330

905-525-0953

Distribution List

- (1) City of Oklahoma City Airport Trust, Jarvis.carter@okc.gov
- (1) City of Oklahoma City Airport Trust, john.storms@okc.gov
- (1) City of Oklahoma City Airport Trust, SPappas@macokc.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Duit Construction Co Inc, johnp@duitconstruction.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Macarthur Associated Consultants LLC, ccapra@macokc.com
- (1) Macarthur Associated Consultants LLC, dfletcher@macokc.com
- (1) Macarthur Associated Consultants LLC, jharbaugh@macokc.com
- (1) RDM International Inc, mdiffin@rdmintlinc.com

CONCRETE COMPRESSIVE STRENGTH TEST REPORT



Report Number: 03221185.0149
Service Date: 03/31/23
Report Date: 04/28/23 Revision 1 - 28-day results
Task: Exploration-Field Services

4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453

Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: A405A3MF
Supplier: Dolese
Batch Time: 1209
Truck No.: 236
Plant:
Ticket No.: 25539845

Sample Information

Sample Date: 03/31/23 **Sample Time:** 1300
Sampled By: Joshua Dwaileebe
Weather Conditions: Sunny and windy
Accumulative Yards: 10.50/42.0 **Batch Size (cy):** 10.5
Placement Method: Bucket & lift
Water Added Before (gal): 0
Water Added After (gal): 0
Sample Location: Footing Station 18+17
Placement Location: Aircraft Rated Footing Station 18+17 - 19+33
Sample Description: 6-inch diameter cylinders

Field Test Data

Test	Result	Specification
Slump (in):	5 1/2	Max 6
Air Content (%):	6.0	4.3 - 6.7
Concrete Temp. (F):	72	
Ambient Temp. (F):	76	
Plastic Unit Wt. (pcf):	143.0	
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Spec ID	Cyl. Cond.	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Comp Strength (psi)	Frac Type	Tested By
1	A	(ood	6.00	28.27	04/04/23	04/07/23	7	90,220	3,190	5	MSB
1	B	(ood	6.00	28.27	04/04/23	04/28/23	28	109,170	3,860	5	MSB
1	C	(ood	6.00	28.27	04/04/23	04/28/23	28	110,360	3,900	5	MSB
1	D				04/04/23) old		Average (28 days) 3,880	*	

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments: * Average compressive strength of 28 day cylinders does not comply with the specified strength.

Note: Reported air content does not include Aggregate Correction Factor GACFq.

Samples Made By: Terracon

Services: Obtain samples of fresh concrete at the placement locations ASTM C-172q, perform required field tests and cast, cure, and test compressive strength samples ASTM C-31q.

Terracon Rep.: Joshua Dwaileebe

Reported To: Doug Fletcher with Macarthur

Contractor: Wyatt

Report Distribution:

See attached distribution list.

Reviewed By:

Nicholas R. Schuessler
Department Manager

Test Methods: ASTM C39, ASTM C143, ASTM C231, ASTM C511, ASTM C1064, ASTM C1231, ASTM C31

The tests were performed in general accordance with applicable ASTM, AAS) TO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

Photo Log

Report Number: 03221185.0149
Service Date: 03/31/23
Report Date: 04/28/23 Revision 1 - 28-day results
Task: Exploration-Field Services



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453



(P1) Location before pour.



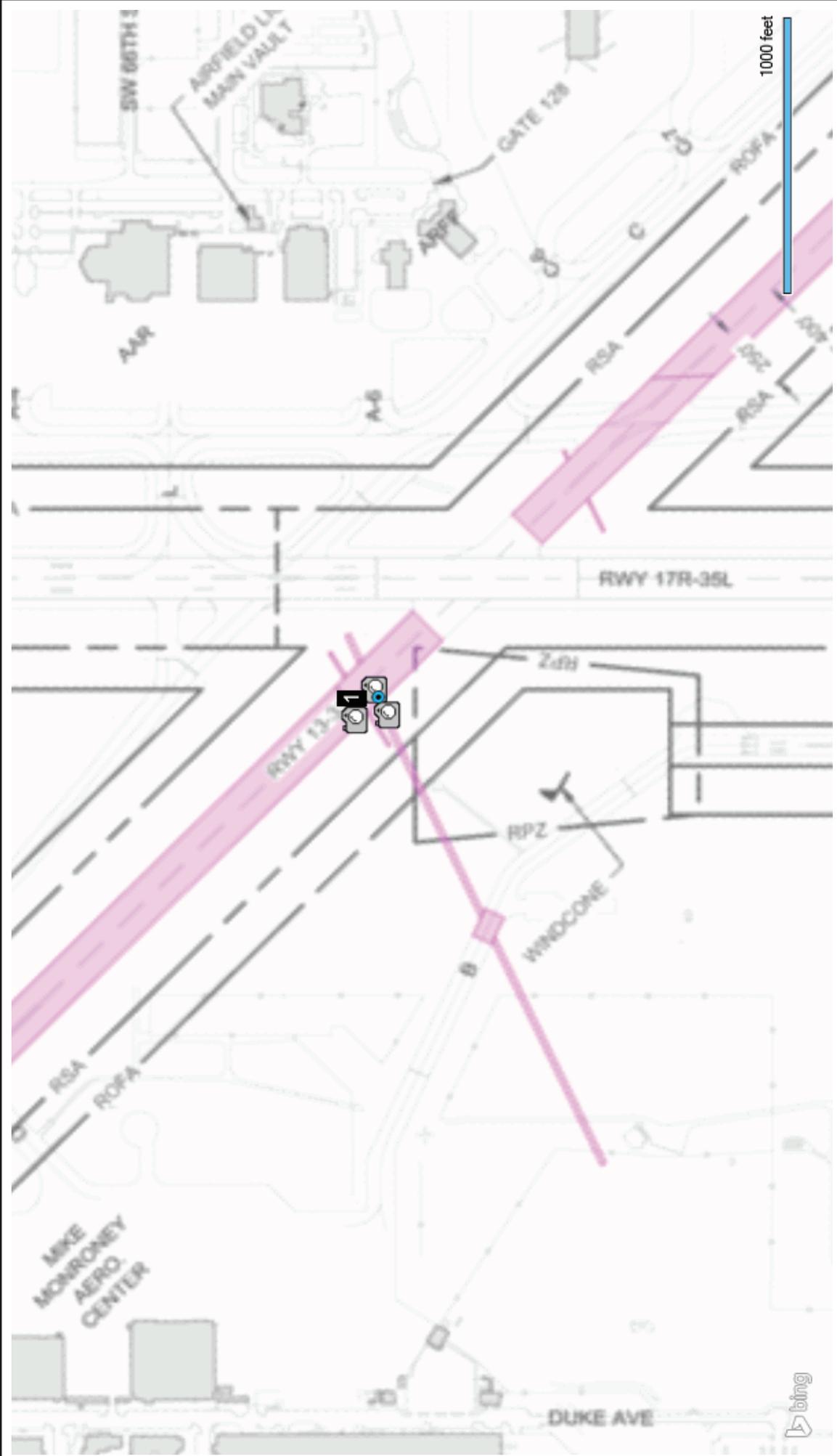
(P3) Location during pour.



(P2) Cylinder storage area.



(P4) Dispatch ticket.



Exhibit

A-1

Rehabilitation-Reconstruction of Runway 13-31 Phase II

Concrete Compressive Strength Test

terracon
 4701 N Stiles Ave
 Oklahoma City, OK 73105-3330
 405-525-0453
 terracon.com

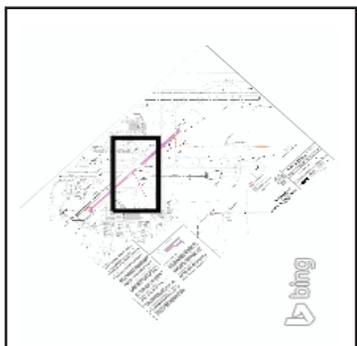
Report Number: 03221185.0149

Service Date: 03/31/2023

Employee: Dwaileebe, Joshua

Scale: Refer to Drawing

- Test
- Retested / Accepted
 - Deviation



Distribution Page

Report Number: 03221185.019/

Service Date: 03431423

Report Date: 09428423 Revision 1 - 28-day results

Task: Exploration-Field Services



9701 N Stiles Ave

Oklahoma City, OK 73105-3330

905-525-0953

Distribution List

- (1) City of Oklahoma City Airport Trust, Jarvis.carter@okc.gov
- (1) City of Oklahoma City Airport Trust, john.storms@okc.gov
- (1) City of Oklahoma City Airport Trust, SPappas@macokc.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Duit Construction Co Inc, johnp@duitconstruction.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Macarthur Associated Consultants LLC, ccapra@macokc.com
- (1) Macarthur Associated Consultants LLC, dfletcher@macokc.com
- (1) Macarthur Associated Consultants LLC, jharbaugh@macokc.com
- (1) RDM International Inc, mdiffin@rdmintlinc.com

CONCRETE COMPRESSIVE STRENGTH TEST REPORT



Report Number: 03221185.0153
Service Date: 04/03/23
Report Date: 05/04/23 Revision 2 - 28-day results
Task: Exploration-Field Services

4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453

Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: A405A3MF
Supplier: Dolese
Batch Time: 1209
Truck No.: 329
Plant:
Ticket No.: 25539894

Sample Information

Sample Date: 04/03/23 **Sample Time:** 1320
Sampled By: Puzia, Bryan
Weather Conditions: Clear
Accumulative Yards: 10.5/31.51 **Batch Size (cy):** 10.5
Placement Method: Bucket & lift
Water Added Before (gal): 0
Water Added After (gal): 0
Sample Location: Interior Wall St 18+60
Placement Location: RCB Interior Wall St 18+50 - 19+08 and Floor St 19+37 - 19+78
Sample Description: 6-inch diameter cylinders

Field Test Data

Test	Result	Specification
Slump (in):	4 1/2	Max 6
Air Content (%):	4.8	4.3 - 6.7
Concrete Temp. (F):	72	
Ambient Temp. (F):	84	
Plastic Unit Wt. (pcf):	144.8	
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Spec ID	Cyl. Cond.	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Comp Strength (psi)	Frac Type	Tested By
1	A	Good	6.00	28.27	04/05/23	04/10/23	7	89,140	3,150	5	MSB
1	B	Good	6.00	28.27	04/05/23	05/01/23	28	112,810	3,990	2	MSB
1	C	Good	6.00	28.27	04/05/23	05/01/23	28	111,880	3,960	5	MSB
1	D		6.00	28.27	04/05/23	05/01/23	28				
1	E				04/05/23						

Average (28 days) 3,970 *
(old)

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments: * Average compressive strength of 28 day cylinders does not comply with the specified strength.

Note: Reported air content does not include Aggregate Correction Factor)ACFq.

Samples Made By: Terracon

Services: Obtain samples of fresh concrete at the placement locations)ASTM C-172q, perform reHired field tests and cast, cure, and test compressive strength samples)ASTM C-31q.

Terracon Rep.: Puzia, Bryan

Reported To: Doug Fletcher with Macarthur

Contractor: Wyatt

Report Distribution:

See attached distribution list.

Reviewed By:

Mackenzie Baker
Assistant Project Manager

Test Methods: ASTM C39, ASTM C143, ASTM C231, ASTM C511, ASTM C1064, ASTM C1231, ASTM C31

The tests were performed in general accordance with applicable ASTM, AAS(TO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location)sq referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

Photo Log

Report Number: 03221185.0153
Service Date: 04/03/23
Report Date: 05/04/23 Revision 2 - 28-day results
Task: Exploration-Field Services



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453



(P1) RCW Walls



(P2) RCW Walls

Distribution Page

Report Number: 03221185.0153

Service Date: 0/403423

Report Date: 0540/423 Revision 2 - 28-day results

Task: Exploration-Field Services



/ 701 N Stiles Ave

Oklahoma City, OK 73105-3330

/ 05-525-0/53

Distribution List

- (1) City of Oklahoma City Airport Trust, Jarvis.carter@okc.gov
- (1) City of Oklahoma City Airport Trust, john.storms@okc.gov
- (1) City of Oklahoma City Airport Trust, SPappas@macokc.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Duit Construction Co Inc, johnp@duitconstruction.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Macarthur Associated Consultants LLC, ccapra@macokc.com
- (1) Macarthur Associated Consultants LLC, dfletcher@macokc.com
- (1) Macarthur Associated Consultants LLC, jharbaugh@macokc.com
- (1) RDM International Inc, mdiffin@rdmintlinc.com

CONCRETE COMPRESSIVE STRENGTH TEST REPORT



Report Number: 03221185.0155
Service Date: 04/04/23
Report Date: 06/02/23 Revision 3 - 56-Day Break
Task: Exploration-Field Services

4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453

Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: A405A3MF
Supplier: Dolese
Batch Time: 1212
Truck No.: 057
Plant:
Ticket No.: 25539945

Sample Information

Sample Date: 04/04/23 **Sample Time:** 1315
Sampled By: Joshua Dwaileebe
Weather Conditions: Cloudy and windy
Accumulative Yards: 10.50/39 **Batch Size (cy):** 10.5
Placement Method: Bucket & lift
Water Added Before (gal): 0
Water Added After (gal): 0
Sample Location: Deck at Station 17+00.
Placement Location: RCB: Deck at Station 17+00 to 17+51;
Interior Wall at Station 19+08- to 19+66,
and Exterior Wall at Station 18+51 to 19.09.
Sample Description: 6-inch diameter cylinders

Field Test Data

Test	Result	Specification
Slump (in):	6 1/4 *	Max 6
Air Content (%):	5.8	4.3 - 6.7
Concrete Temp. (F):	77	
Ambient Temp. (F):	80	
Plastic Unit Wt. (pcf):	147.9	

Yield (Cu. Yds.):

* = Field Test Results do not meet project specifications.

Laboratory Test Data

Set No.	Spec ID	Cyl. Cond.	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Comp Strength (psi)	Frac Type	Tested By
1	A	Good	6.00	28.27	04/06/23	04/11/23	7	84,800	3,000	2	MSB
1	B	Good	6.00	28.27	04/06/23	05/02/23	28	103,200	3,650	2	MSB
1	C	Good	6.00	28.27	04/06/23	05/02/23	28	101,910	3,600	5	MSB
Average (28 days)									3,630	*	
1	D	Good	6.00	28.27	04/06/23	05/30/23	56	113,600	4,020	5	MSB

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments: Compressive strength of 56 day cylinders complies with the specified strength.

Note: Reported air content does not include Aggregate Correction Factor (ACF).

Concrete Accepted Onsite

Samples Made By: Terracon

Services: Obtain samples of fresh concrete at the placement locations (ASTM C-172), perform required field tests and cast, cure, and test compressive strength samples (ASTM C-31).

Terracon Rep.: Joshua Dwaileebe

Reported To: Doug Fletcher with Macarthur

Contractor: Wyatt

Report Distribution:

See attached distribution list.

Reviewed By:

Nicholas R. Schuessler
Department Manager

Test Methods: ASTM C39, ASTM C143, ASTM C231, ASTM C511, ASTM C1064, ASTM C1231, ASTM C31

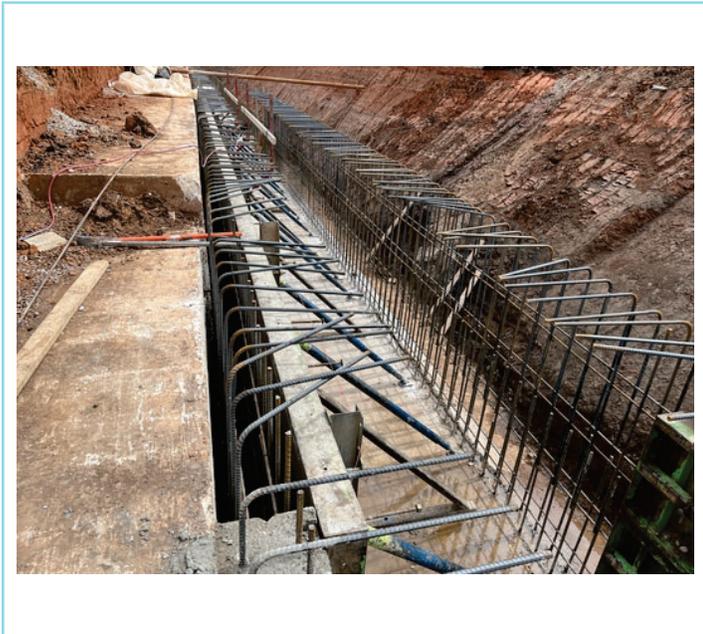
The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

Photo Log

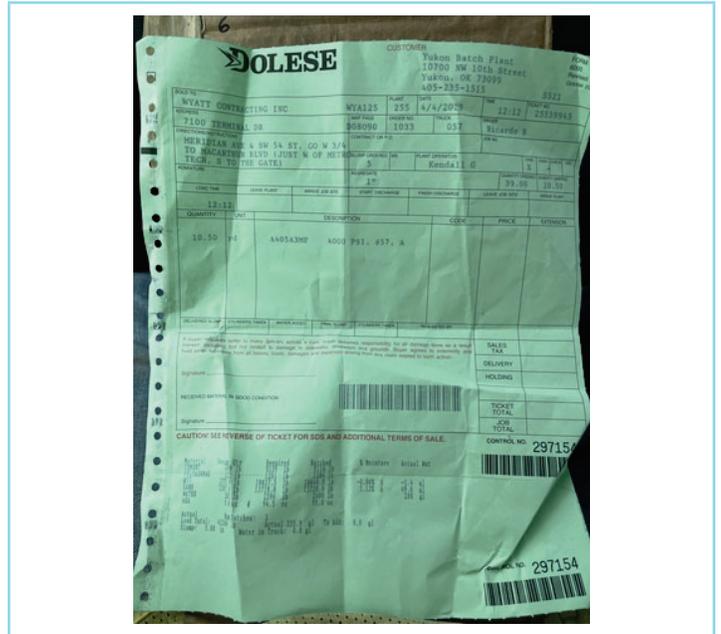
Report Number: 03221185.0155
Service Date: 04/04/23
Report Date: 06/02/23 Revision 3 - 56-Day Break
Task: Exploration-Field Services



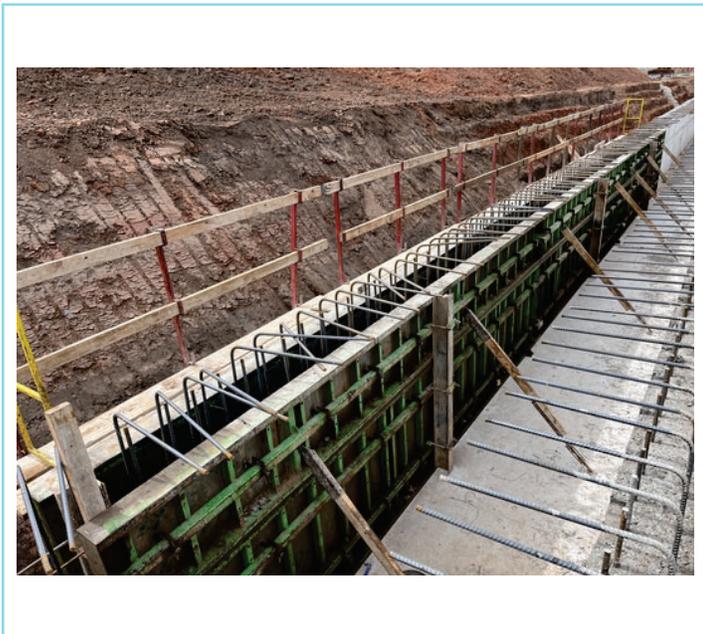
4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453



(P1) Location before pour.



(P3) Dispatch ticket.



(P2) Location before pour.

Distribution Page

Report Number: 03221185.0155

Service Date: 04/04/23

Report Date: 06/02/23 Revision 3 - 56-Day Break

Task: Exploration-Field Services



4701 N Stiles Ave

Oklahoma City, OK 73105-3330

405-525-0453

Distribution List

- (1) City of Oklahoma City Airport Trust, Jarvis.carter@okc.gov
- (1) City of Oklahoma City Airport Trust, john.storms@okc.gov
- (1) City of Oklahoma City Airport Trust, SPappas@macokc.com
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- (1) Duit Construction Co Inc, johnp@duitconstruction.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Macarthur Associated Consultants LLC, ccapra@macokc.com
- (1) Macarthur Associated Consultants LLC, dfletcher@macokc.com
- (1) Macarthur Associated Consultants LLC, jharbaugh@macokc.com
- (1) RDM International Inc, mdiffin@rdmintlinc.com

CONCRETE COMPRESSIVE STRENGTH TEST REPORT



Report Number: 03221185.0171
Service Date: 04/14/23
Report Date: 05/12/23 Revision 1 - 28-day results
Task: Exploration-Field Services

4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453

Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: A405A3MF
Supplier: Dolese
Batch Time: 1222 **Plant:** 255
Truck No.: 262 **Ticket No.:** 25540335

Sample Information

Sample Date: 04/14/23 **Sample Time:** 1310
Sampled By: Joshua Dwaileebe
Weather Conditions: Sunny and windy
Accumulative Yards: 10.5/52.51 **Batch Size (cy):** 10.5
Placement Method: Bucket & lift
Water Added Before (gal): 0
Water Added After (gal): 0
Sample Location: Deck at Station 18+67
Placement Location: RCB Exterior Wall (12x6) Station 8+45 to 9+00 / Deck at Station 18+67 to 19+83
Sample Description: 6-inch diameter cylinders

Field Test Data

Test	Result	Specification
Slump (in):	6	Max 6
Air Content (%):	6.2	4.3 - 6.7
Concrete Temp. (F):	74	
Ambient Temp. (F):	82	
Plastic Unit Wt. (pcf):	142.3	
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Spec ID	Cyl. Cond.	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Comp Strength (psi)	Frac Type	Tested By
1	A	Good	6.00	28.27	04/17/23	04/21/23	7	90,310	3,190	5	MSB
1	B	Good	6.00	28.27	04/17/23	05/12/23	28	110,800	3,920	2	MSB
1	C	Good	6.00	28.27	04/17/23	05/12/23	28	106,870	3,780	4	MSB
Average (28 days)									3,850	*	
1	D		6.00	28.27	04/17/23	06/09/23	56				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments: * Average compressive strength of 28 day cylinders does not comply with the specified strength.

Note: Reported air content does not include Aggregate Correction Factor (ACF).

Samples Made By: Terracon

Services: Obtain samples of fresh concrete at the placement locations (ASTM C-172), perform required field tests and cast, cure, and test compressive strength samples (ASTM C-31).

Terracon Rep.: Joshua Dwaileebe

Reported To: Doug Fletcher with Macarthur

Contractor: Wyatt

Report Distribution:

See attached distribution list.

Reviewed By:

Nicholas R. Schuessler
Department Manager

Test Methods: ASTM C39, ASTM C143, ASTM C231, ASTM C511, ASTM C1064, ASTM C1231, ASTM C31

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

Photo Log

Report Number: 03221185.01/1

Service Date: 04/14/23

Report Date: 05/12/23 Revision 1 - 28-day results

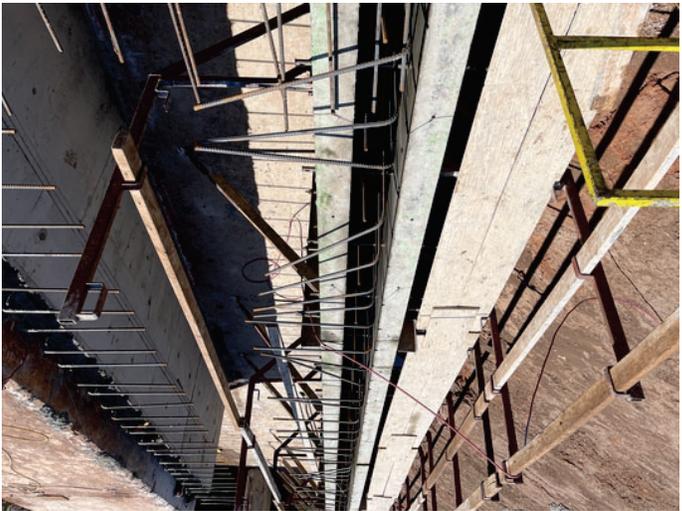
Task: Exploration-Field Services



4/01 N Stiles Ave

Oklahoma City, OK / 3105-3330

405-525-0453



(P1) Location Lefore pour.



(P2) Cylinder storage location.



(P3) Location during pour.



(P4) Dispatch ticket.

Distribution Page

Report Number: 03221185.01/1
Service Date: 04714723
Report Date: 05712723 Revision 1 - 28-day results
Task: Exploration-Field Services



4/01 N Stiles Ave
Oklahoma City, OK / 3105-3330
405-525-0453

Distribution List

- (1) City of Oklahoma City Airport Trust, Jarvis.carter@okc.gov
- (1) City of Oklahoma City Airport Trust, john.storms@okc.gov
- (1) City of Oklahoma City Airport Trust, SPappas@macokc.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Duit Construction Co Inc, johnp@duitconstruction.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Macarthur Associated Consultants LLC, ccapra@macokc.com
- (1) Macarthur Associated Consultants LLC, dfletcher@macokc.com
- (1) Macarthur Associated Consultants LLC, jharbaugh@macokc.com
- (1) RDM International Inc, mdiffin@rdmintlinc.com

CONCRETE COMPRESSIVE STRENGTH TEST REPORT



Report Number: 03221185.0172
Service Date: 04/17/23
Report Date: 05/1j/23 Revision 1 - 28-day results
Task: Exploration-Field Services

4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453

Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: A405A36 F
Supplier: Dolese
Batch Time: 1212
Truck No.: 9j 3
Plant:
Ticket No.: 25540379

Sample Information

Sample Date: 04/17/23 **Sample Time:** 1300
Sampled By: Joshua Dwaileebe
Weather Conditions: Sunny and windy
Accumulative Yards: 10.5/21.01 **Batch Size (cy):** 10.5
Placement Method: Bucket & lift
Water Added Before (gal): 0
Water Added After (gal): 0
Sample Location: Deck Station 19+83
Placement Location: RCB Deck Station 19+83 - 20+41
Sample Description: j -inch diameter cylinders

Field Test Data

Test	Result	Specification
Slump (in):	4 1/2	6 ax j
Air Content (%):	5.4	4.3 - j .7
Concrete Temp. (F):	70	
Ambient Temp. (F):	81	
Plastic Unit Wt. (pcf):	145.9	
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Spec ID	Cyl. Cond.	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Comp Strength (psi)	Frac Type	Tested By
1	A	(ood	j .00	28.27	04/18/23	04/24/23	7	8j ,j 80	3,070	5	6 SB
1	B	(ood	j .00	28.27	04/18/23	05/15/23	28	114,050	4,030	2	6 SB
1	C	(ood	j .00	28.27	04/18/23	05/15/23	28	107,j 10	3,810	2	6 SB
1	D		j .00	28.27	04/18/23	0j /12/23	5j				
Average (28 days)									3,920	*	

Initial Cure: Onsite Cooler

Final Cure: 6 oist Room

Comments: * Average compressive strength of 28 day cylinders does not comply with the specified strength.

Note: Reported air content does not include Aggregate Correction Factor)ACFG

Samples Made By: Terracon

Services: Obtain samples of fresh concrete at the placement locations)AST6 C-172G perform required field tests and cast, cure, and test compressive strength samples)AST6 C-31G

Terracon Rep.: Joshua Dwaileebe

Reported To: Doug Fletcher with 6 acarthur

Contractor: Wyatt

Report Distribution:

See attached distribution list.

Reviewed By:

Nicholas R. Schuessler

Department 6 anager

Test Methods: AST6 C39, AST6 C143, AST6 C231, AST6 C511, AST6 C10j 4, AST6 C1231, AST6 C31

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

Photo Log

Report Number:

03221185.0172

Service Date:

04/17/23

Report Date:

05/16/23 Revision 1 - 28-day results

Task:

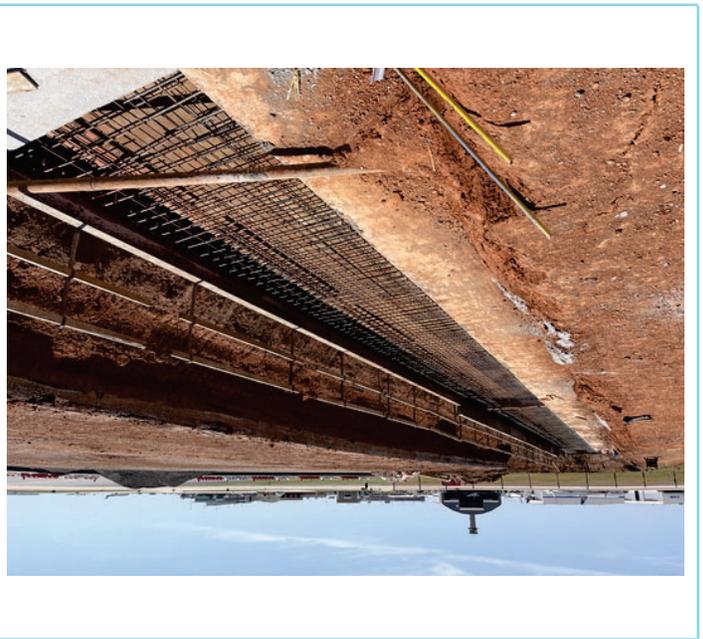
Exploration-Field Services



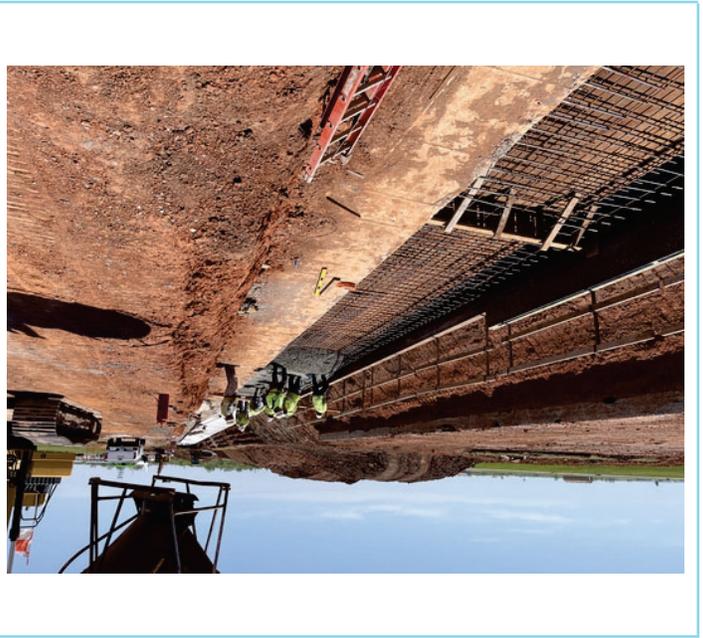
4701 N Stiles Ave

Oklahoma City, OK 73105-3330

405-525-0453



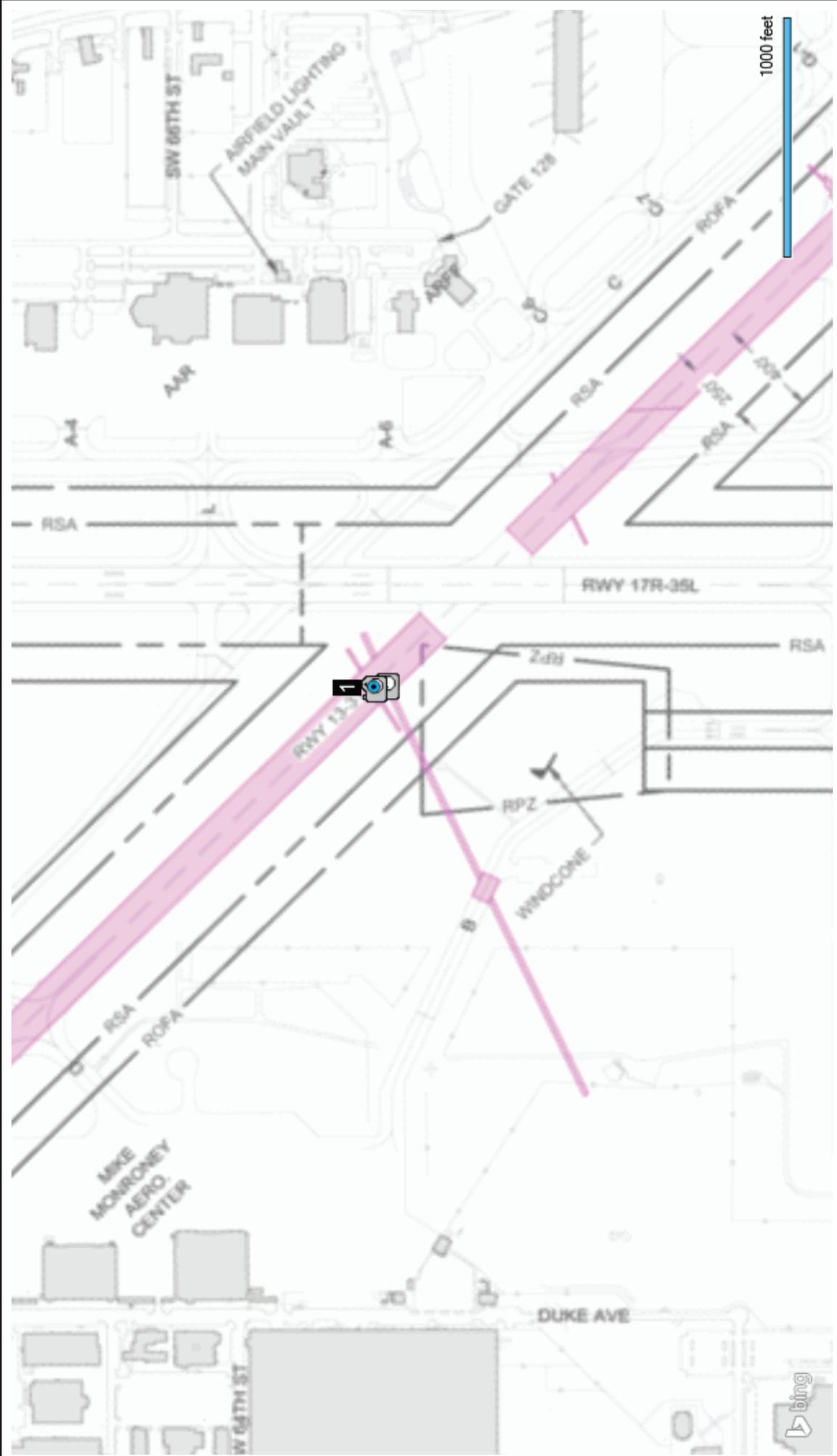
(P1) Location before pour.



(P2) Location during pour.



(P3) Dispatch ticket.



1000 feet

Exhibit
A-1

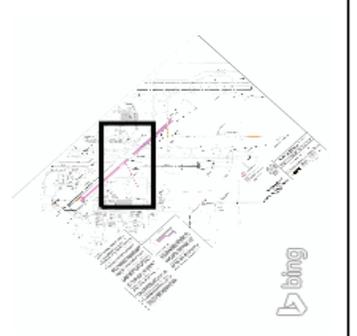
**Rehabilitation-Reconstruc
tion of Runway 13-31
Phase II**

Concrete Compressive
Strength Test

terracon
4701 N Stiles Ave
405-525-0453
Oklahoma City, OK
73105-3330
terracon.com

Report Number: 03221185.0172
Service Date: 04/17/2023
Employee: Dwaileebe, Joshua
Scale: Refer to Drawing

- Test
- Retested / Accepted
 - Deviation



Distribution Page

Report Number: 03221185.0172

Service Date: 04/17/23

Report Date: 05/16/23 Revision 1 - 28-day results

Task: Exploration-Field Services



4701 N Stiles Ave

Oklahoma City, OK 73105-3330

405-525-0453

Distribution List

- (1) City of Oklahoma City Airport Trust, Jarvis.carter@okc.gov
- (1) City of Oklahoma City Airport Trust, john.storms@okc.gov
- (1) City of Oklahoma City Airport Trust, SPappas@macokc.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Duit Construction Co Inc, johnp@duitconstruction.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Macarthur Associated Consultants LLC, ccapra@macokc.com
- (1) Macarthur Associated Consultants LLC, dfletcher@macokc.com
- (1) Macarthur Associated Consultants LLC, jharbaugh@macokc.com
- (1) RDM International Inc, mdiffin@rdmintlinc.com

CONCRETE COMPRESSIVE STRENGTH TEST REPORT



Report Number: 03221185.0210
Service Date: 04/28/23
Report Date: 05/2j/23 Revision 2 - 28-day results
Task: Exploration-Field Services

4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453

Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Material Information

Specified Strength: 4,000 psi @ 28 days
Mix ID: A405A36 F
Supplier: Dolese
Batch Time: 0910 **Plant:** 255
Truck No.: 057 **Ticket No.:** 25540jjj

Sample Information

Sample Date: 04/28/23 **Sample Time:** 1010
Sampled By: Puzia, Bryan
Weather Conditions: Cloudy
Accumulative Yards: 10.5/31.5 **Batch Size (cy):** 10.5
Placement Method: Bucket & lift
Water Added Before (gal): 0
Water Added After (gal): 0
Sample Location: RCB Deck Station 8+50
Placement Location: RCB Deck Station 1+95 - 2+75 and 8+45 - 9+00
Sample Description: j -inch diameter cylinders

Field Test Data

Test	Result	Specification
Slump (in):	4 3/4	6 ax j
Air Content (%):	j .2	4.3 - j .7
Concrete Temp. (F):	j 8	
Ambient Temp. (F):	57	
Plastic Unit Wt. (pcf):	148.2	
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Spec ID	Cyl. Cond.	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Comp Strength (psi)	Frac Type	Tested By
1	A	Good	j .00	28.27	05/02/23	05/05/23	7	89,020	3,150	2	6 SB
1	B	Good	j .00	28.27	05/02/23	05/2j/23	28	118,110	4,180	2	6 SB
1	C	Good	j .00	28.27	05/02/23	05/2j/23	28	107,000	3,780	5	6 SB
Average (28 days)									3,980	*	
1	D		j .00	28.27	05/02/23	0j/23/23	5j				

Initial Cure: Onsite Cooler

Final Cure: 6 oist Room

Comments: * Average compressive strength of 28 day cylinders does not comply with the specified strength.

Note: Reported air content does not include Aggregate Correction Factor (ACF).

Samples Made By: Terracon

Services: Obtain samples of fresh concrete at the placement locations (AST6 C-172), perform required field tests and cast, cure, and test compressive strength samples (AST6 C-31).

Terracon Rep.: Puzia, Bryan

Reported To: Doug Fletcher with 6 acarthur

Contractor: Wyatt

Report Distribution:

See attached distribution list.

Reviewed By:

Nicholas R. Schuessler

Department 6 anager

Test Methods: AST6 C39, AST6 C143, AST6 C231, AST6 C511, AST6 C10j 4, AST6 C1231, AST6 C31

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

Photo Log

Report Number: 03221185.0210
Service Date: 04/28/23
Report Date: 05/26/23 Revision 2 - 28-day results
Task: Exploration-Field Services



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453



(P1) RCB

DOLESE CUSTOMER: Union Batch Plant, 10700 NW 10th Street, IDAHO, OK 73099, 405-525-1313, 5531

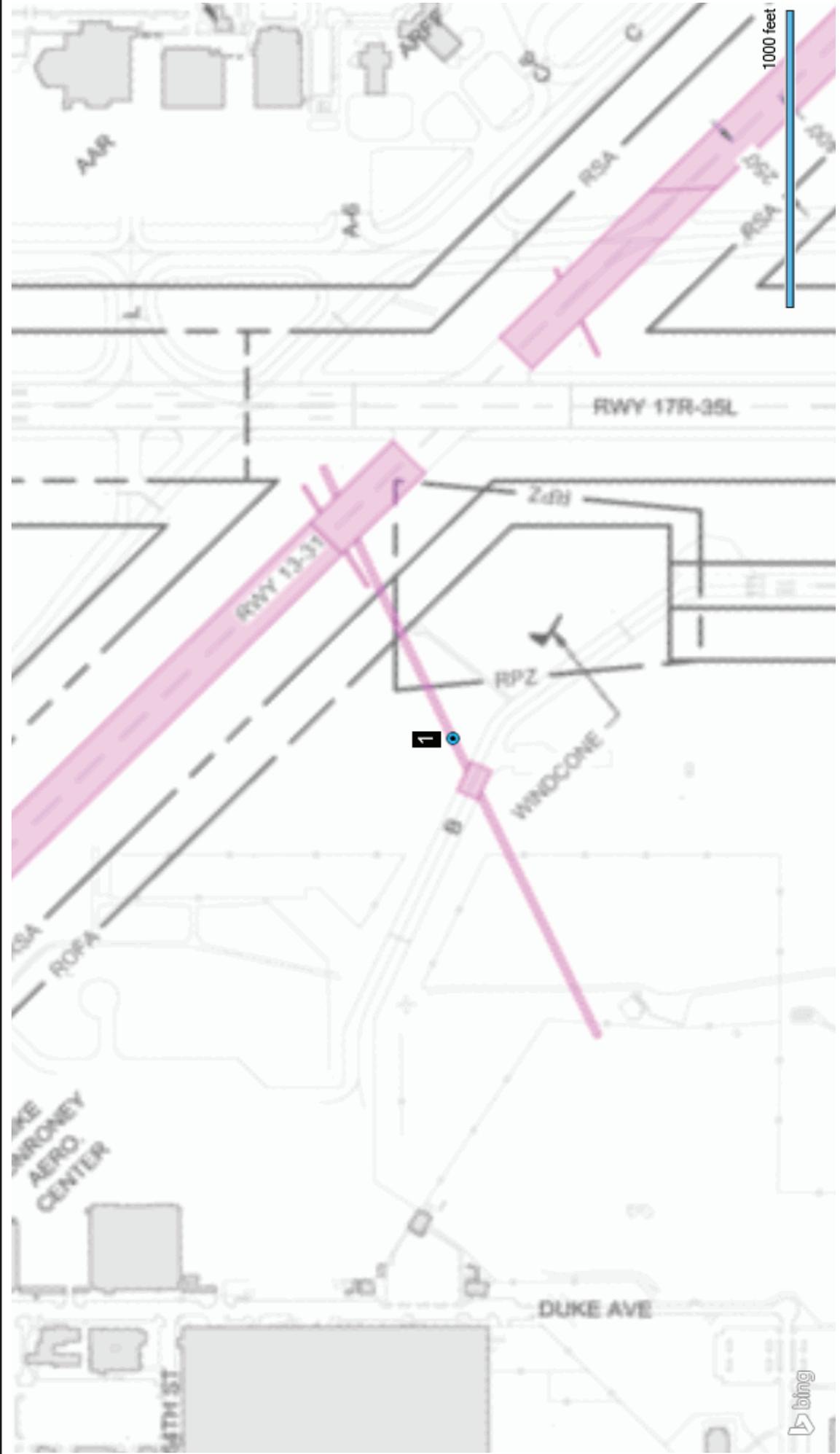
FORM 6000 Revised October 2014

WYR103 PLAN 04/28/2023 TIME 9:10 QUANTITY 10.00

QUANTITY	UNIT	DESCRIPTION	CODE	PRICE	EXTENSION
10.00	yd	4405A3RF 4000 PRI. 857. A			

CONTROL NO 247488

(P2) RCB



Exhibit

A-1

Rehabilitation-Reconstruction of Runway 13-31 Phase II

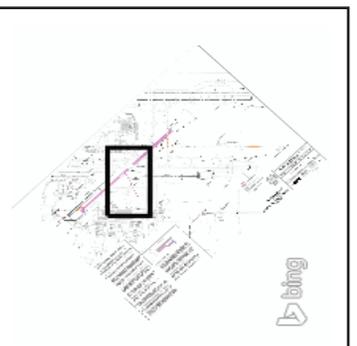
Concrete Compressive Strength Test



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453
terracon.com

Report Number: 03221185.0210	Service Date: 04/28/2023	Employee: Puzia, Bryan	Scale: Refer to Drawing
---------------------------------	-----------------------------	---------------------------	----------------------------

- Test
-  Retested / Accepted
 -  Deviation



Distribution Page

Report Number: 03221185.0210

Service Date: 07428423

Report Date: 0542/423 Revision 2 - 28-day results

Task: Exploration-Field Services



7601 N Stiles Ave

Oklahoma City, OK 63105-3330

705-525-0753

Distribution List

- (1) City of Oklahoma City Airport Trust, Jarvis.carter@okc.gov
- (1) City of Oklahoma City Airport Trust, john.storms@okc.gov
- (1) City of Oklahoma City Airport Trust, SPappas@macokc.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Duit Construction Co Inc, johnp@duitconstruction.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Macarthur Associated Consultants LLC, ccapra@macokc.com
- (1) Macarthur Associated Consultants LLC, dfletcher@macokc.com
- (1) Macarthur Associated Consultants LLC, jharbaugh@macokc.com
- (1) RDM International Inc, mdiffin@rdmintlinc.com

CONCRETE COMPRESSIVE STRENGTH TEST REPORT



Report Number: 03221185.0215
Service Date: 05/01/23
Report Date: 05/30/23 Revision 3 - 29-day results
Task: Lab (Internal)

4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453

Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: A405A3MF
Supplier: Dolese
Batch Time: 1208
Truck No.: 963
Plant:
Ticket No.: 25540695

Sample Information

Sample Date: 05/01/23 **Sample Time:** 1300
Sampled By: Joshua Dwaileebe
Weather Conditions: Sunny and clear.
Accumulative Yards: 10.50/10.5 **Batch Size (cy):** 10.5
Placement Method: Bucket & lift
Water Added Before (gal): 0
Water Added After (gal): 0
Sample Location: RCB: Interior Wall at Station 16+20.
Placement Location: RCB: Interior Wall at Station 16+20-16+50.
Sample Description: 6-inch diameter cylinders

Field Test Data

Test	Result	Specification
Slump (in):	5 3/4	Max 6
Air Content (%):	6.2	4.3 - 6.7
Concrete Temp. (F):	70	
Ambient Temp. (F):	65	
Plastic Unit Wt. (pcf):	143.5	
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Spec ID	Cyl. Cond.	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Comp Strength (psi)	Frac Type	Tested By
1	A	Good	6.00	28.27	05/03/23	05/08/23	7	83,520	2,950	2	MSB
1	B	Good	6.00	28.27	05/03/23	05/30/23	29	100,610	3,560	2	SSW
1	C	Good	6.00	28.27	05/03/23	05/30/23	29	103,470	3,660	2	SSW
Average (29 days)									3,610	*	
1	D		6.00	28.27	05/03/23	06/26/23	56				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments: * Average compressive strength of 29 day cylinders does not comply with the specified strength.

Note: Reported air content does not include Aggregate Correction Factor (ACF).

Samples Made By: Terracon

Services: Obtain samples of fresh concrete at the placement locations (ASTM C-172), perform required field tests and cast, cure, and test compressive strength samples (ASTM C-31).

Terracon Rep.: Joshua Dwaileebe

Reported To: Doug Fletcher with Macarthur

Contractor: Wyatt

Report Distribution:

See attached distribution list.

Reviewed By:

Nicholas R. Schuessler
Department Manager

Test Methods: ASTM C39, ASTM C143, ASTM C231, ASTM C511, ASTM C1064, ASTM C1231, ASTM C31

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

Photo Log

Report Number: 03221185.0215
Service Date: 05/01/23
Report Date: 05/30/23 Revision 3 - 29-day results
Task: Lab (Internal)



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453



(P1) Location before pour.



(P3) Cylinder storage area.



(P2) Location during pour.



(P4) Driver dispatch ticket.

Distribution Page

Report Number: 03221185.0215

Service Date: 05/01/23

Report Date: 05/30/23 Revision 3 - 29-day results

Task: Lab (Internal)



4701 N Stiles Ave

Oklahoma City, OK 73105-3330

405-525-0453

Distribution List

- (1) City of Oklahoma City Airport Trust, Jarvis.carter@okc.gov
- (1) City of Oklahoma City Airport Trust, john.storms@okc.gov
- (1) City of Oklahoma City Airport Trust, SPappas@macokc.com
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- (1) Duit Construction Co Inc, johnp@duitconstruction.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Macarthur Associated Consultants LLC, ccapra@macokc.com
- (1) Macarthur Associated Consultants LLC, dfletcher@macokc.com
- (1) Macarthur Associated Consultants LLC, jharbaugh@macokc.com
- (1) RDM International Inc, mdiffin@rdmintlinc.com

CONCRETE BEAM FLEXURAL STRENGTH TEST REPORT

Report Number: 03221185.0224
Service Date: 05/10/23
Report Date: 06/07/23 Revision 2 - 28-day results
Task: Exploration-Field Services



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453

Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Material Information

Specified Strength: 650 psi @ 28 days
Mix ID: P-501
Supplier: Duit
Batch Time: **Plant:**
Truck No.: N/A **Ticket No.:** N/A

Sample Information

Sample Date: 05/10/23 **Sample Time:** 0915
Sampled By: Joshua Dwaileebe
Weather Conditions: Sunny and clear
Accumulative Yards: N/A **Batch Size (cy):** 10
Placement Method: Slip form paver
Water Added Before (gal): 0
Water Added After (gal): 0
Samples Were: Molded
Sample Location: Station 13+02, 2nd lane N. of Center Panel 2
Placement Location: Taxiway F, E Side 2nd Lane N. of Center and 3rd lane S. of Center.

Field Test Data

Test	Result	Specification
Slump (in):	3	Max 4
Air Content (%):	5.5	4 - 7
Concrete Temp. (F):	80	
Ambient Temp. (F):	71	
Plastic Unit Wt. (pcf):	144.7	

Laboratory Test Data

(Third-Point Loading)

Set No.	Specimen ID	Average Width (in)	Average Depth (in)	Span Length (in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Modulus of Rupture (psi)	Tested By	
1	A	6.15	6.01	18	05/12/23	05/17/23	7	6,620	535	MSB	
1	B	6.12	6.05	18	05/12/23	06/07/23	28	7,710	620	MSB	
1	C	6.19	6.05	18	05/12/23	06/07/23	28	7,670	610	MSB	
Average (28 days)									615	*	

Bearing Surface: Leather Shims Used

Initial Cure: See Comments

Final Cure: Moist Room

Comments: * Average flexural strength of 28 day beams does not comply with the specified strength.

Note: Reported air content does not include Aggregate Correction Factor (ACF).

Samples Made By: Terracon

Services: Obtain samples of fresh concrete (ASTM C-172) at the placement locations, perform required field tests and cast, cure and test flexural strength samples (ASTM C-31, C-78 or C-293).

Terracon Rep.: Joshua Dwaileebe

Reported To: Doug Fletcher with Macarthur

Contractor: Duit Construction

Report Distribution:

See attached distribution list.

Reviewed By:

Nicholas R. Schuessler
Department Manager

Test Methods: ASTM C78, ASTM C511

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently

Photo Log

Report Number: 03221185.0224
Service Date: 05/10/23
Report Date: 06/07/23 Revision 2 - 28-day results
Task: Exploration-Field Services



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453



(P1) Location during paving.



(P2) Location before paving.

Distribution Page

Report Number: 03221185.0227

Service Date: 05410423

Report Date: 0/406423 Revision 2 - 28-day results

Task: Exploration-Field Services



7601 N Stiles Ave

Oklahoma City, OK 63105-3330

705-525-0753

Distribution List

- (1) City of Oklahoma City Airport Trust, Jarvis.carter@okc.gov
- (1) City of Oklahoma City Airport Trust, john.storms@okc.gov
- (1) City of Oklahoma City Airport Trust, SPappas@macokc.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Duit Construction Co Inc, johnp@duitconstruction.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Macarthur Associated Consultants LLC, ccapra@macokc.com
- (1) Macarthur Associated Consultants LLC, dfletcher@macokc.com
- (1) Macarthur Associated Consultants LLC, jharbaugh@macokc.com
- (1) RDM International Inc, mdiffin@rdmintlinc.com

CONCRETE BEAM FLEXURAL STRENGTH TEST REPORT

Report Number: 03221185.0225
Service Date: 05/11/23
Report Date: 06/08/23 Revision 2 - 28-day results
Task: Exploration-Field Services



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453

Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Material Information

Specified Strength: 650 psi @ 28 days
Mix ID: P-501
Supplier: Duit
Batch Time: **Plant:**
Truck No.: N/A **Ticket No.:** N/A

Sample Information

Sample Date: 05/11/23 **Sample Time:** 0830
Sampled By: Joshua Dwaileebe
Weather Conditions: Cloudy
Accumulative Yards: N/A **Batch Size (cy):** 10
Placement Method: Slip form paver
Water Added Before (gal): 0
Water Added After (gal): 0
Samples Were: Molded
Sample Location: 2nd Panel
Placement Location: Taxiway F, West Side Lane 2, 2 Panels W. of Runway

Field Test Data

Test	Result	Specification
Slump (in):	3	Max 4
Air Content (%):	5.5	4 - 7
Concrete Temp. (F):	79	
Ambient Temp. (F):	67	
Plastic Unit Wt. (pcf):	146.3	

Laboratory Test Data

(Third-Point Loading)

Set No.	Specimen ID	Average Width (in)	Average Depth (in)	Span Length (in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Modulus of Rupture (psi)	Tested By	
1	A	6.28	6.02	18	05/15/23	05/18/23	7	6,680	530	MSB	
1	B	6.18	6.01	18	05/15/23	06/08/23	28	7,890	635	SSW	
1	C	6.11	5.95	18	05/15/23	06/08/23	28	7,700	640	SSW	
Average (28 days)									640	*	

Bearing Surface: Leather Shims Used

Initial Cure: See Comments

Final Cure: Moist Room

Comments: * Average flexural strength of 28 day beams does not comply with the specified strength.

Note: Reported air content does not include Aggregate Correction Factor (ACF).

Samples Made By: Terracon

Services: Obtain samples of fresh concrete (ASTM C-172) at the placement locations, perform required field tests and cast, cure and test flexural strength samples (ASTM C-31, C-78 or C-293).

Terracon Rep.: Joshua Dwaileebe

Reported To: Doug Fletcher with Macarthur

Contractor: Duit Construction

Report Distribution:

See attached distribution list.

Reviewed By:

Nicholas R. Schuessler
Department Manager

Test Methods: ASTM C78, ASTM C511

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently

Photo Log

Report Number: 03221185.0225
Service Date: 05/11/23
Report Date: 06/08/23 Revision 2 - 28-day results
Task: Exploration-Field Services



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453



(P1) Location during paving.

Distribution Page

Report Number: 03221185.0225
Service Date: 05711723
Report Date: 04708723 Revision 2 - 28-day results
Task: Exploration-Field Services



/ 601 N Stiles Ave
Oklahoma City, OK 63105-3330
/ 05-525-0/ 53

Distribution List

- (1) City of Oklahoma City Airport Trust, Jarvis.carter@okc.gov
- (1) City of Oklahoma City Airport Trust, john.storms@okc.gov
- (1) City of Oklahoma City Airport Trust, SPappas@macokc.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Duit Construction Co Inc, johnp@duitconstruction.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Macarthur Associated Consultants LLC, ccapra@macokc.com
- (1) Macarthur Associated Consultants LLC, dfletcher@macokc.com
- (1) Macarthur Associated Consultants LLC, jharbaugh@macokc.com
- (1) RDM International Inc, mdiffin@rdmintlinc.com

CONCRETE BEAM FLEXURAL STRENGTH TEST REPORT



Report Number: 03221185.0230
Service Date: 05/16/23
Report Date: 05/15/23
Task: xpFtnuyEn dSvta-cvui s4vo

7601-N-c Estvo-Ai v
Oktyhnmy-CsFr,-OK-63105d3330
705d525d0753

Client

CsFr-nf-Oktyhnmy-CsFr-AsFnuE-Tu oE
AE :-Jyu s-CyuEvu
6100-Tvums yt-Du
U sE936
Oktyhnmy-CsFr,-OK-63159

Project

evhybstEYEn dev4n oEJ 4En -nf-el wyr-13d31-Phyov-II
Wst-engvuw-Wnuta-AsFnuE
Oktyhnmy-CsFr,-OK-63159

Punjv4ENI mbvur-03221185

Material Information

Specified Strength: -R50 Fos@ 28 ayro
Mix ID: Pd501
Supplier: DI sE
Batch Time: **Plant:**
Truck No.: N/A **Ticket No.:** N/A

Sample Information

Sample Date: 05/16/23 **Sample Time:** 1130
Sampled By: Jnohl y-Dwystvubv
Weather Conditions: cl r-y a-4tyu
Accumulative Yards: N/A **Batch Size (cy):** 10
Placement Method: Dav4EDs4hyugv
Water Added Before (gal): 0
Water Added After (gal): 0
Samples Were: Mntava
Sample Location: 3ua-Fy vt-n -cx-osav-nf-Eypswyr
Placement Location: Typswyr -S,-x-osav,-cx-hytf-nf-N.-eyad o,-
cx-hytf-nf-c-eyad o

Field Test Data

Test	Result	Specification
Slump (in):	2-3/7	Myp-7
Air Content (%):	5.9	7-d6
Concrete Temp. (F):	67	
Ambient Temp. (F):	R3	
Plastic Unit Wt. (pcf):	177.3	

Laboratory Test Data

(Third-Point Loading)

Set No.	Specimen ID	Average Width (in)	Average Depth (in)	Span Length (in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Modulus of Rupture (psi)	Tested By	
1	A	R.08	R.00	18	05/19/23	05/27/23	6	R,730	-530	cc W	
1	L	R.17	R.00	18	05/19/23	0R/17/23	28	6,760	-R10	cc W	
1	C	R.12	5.99	18	05/19/23	0R/17/23	28	6,330	-R00	cc W	
Average (28 days)									605	*	

Bearing Surface: BvyEhvuc hsmo-Uova

Initial Cure: cvv-Cnm mv Eo

Final Cure: MnsoEennm

Comments: * Average flexural strength of 28 day beams does not comply with the specified strength.

NnEv:-evFnuEva-ysu4n Ev Eanvo- nEs 4tl av-AggwgyEv-Cnuw4En -Sy4Enu-(ACS).

Samples Made By: Terracon

Services: ObEys -oymFtvo-nf-fuvoh-4n 4uvEv-(AcTM-Cd162)-yEhV-Fty4vmv Etn4yEn o,-Fvufnum-uwql sva-fs/ta-EvoEo-y a-4yoE-4l w-y a-EvoE ftvpl uyt-oEuv gEh-oymFtvo-(AcTM-Cd31,-Cd68-nu-Cd293).

Terracon Rep.: -Jnohl y-Dwystvubv

Reported To: Dnl g-StvE4hvu-wsEh-My4yuEhl u

Contractor: DI sE-Cn oEJ 4En

Report Distribution:

cvv-yEY4hva-asoEabl En -tsOE

Reviewed By:

N. R. ...
DvFyEuv EMy ygvu

Test Methods: AcTM-C68,-AcTM-C511

Thv-EvoEo-wvuv-Fvufnumva-s -gv vuyt-y44nuay 4v-wsEh-yFFtsybtv-AcTM,-AAcHTO,-nu-DOT-EvoEmvEhnao.--Thso-uwFnuEso-yp4tl osi vtr-fnuEhv-l ov-nf-Ehv-4tsv Es as4yEva-ybni v-y a-ohytt- nEbv-wFunal 4va-yp4vFEs -fl tt-wsEhnl E-Ehv-wuEuv -4n ov Enf-nl u-4nmFy r.--TvoEuvol tEO-Ely omsEva-hvuvs -yw- n tr-yFFtsybtv-Eh-Ehv-y4E yt-oymFtvo-EvoEva-yEhV-tn4yEn (o)-wfvuv 4va-y a-yuv- nE v4vooyutr-s as4yEi v-nf-Ehv-FunFvEvo-nf-nEhv-yFFyuv Etr-

Photo Log

Report Number: 03221185.0230
Service Date: 0541/ 423
Report Date: 06415423 Revision 2 - 28-day results
Task: Exploration-Field Services



7/01 N Stiles Ave
Oklahoma City, OK / 3105-3330
705-525-0753



(P1) Location before paving.



(P3) Location before paving.



(P2) Location before paving.



(P7) Location during paving.

Distribution Page

Report Number: 03221185.0230

Service Date: 05714723

Report Date: 0/ 715723 Revision 2 - 28-day results

Task: Exploration-Field Services



6401 N Stiles Ave

Oklahoma City, OK 43105-3330

605-525-0653

Distribution List

- (1) City of Oklahoma City Airport Trust, Jarvis.carter@okc.gov
- (1) City of Oklahoma City Airport Trust, john.storms@okc.gov
- (1) City of Oklahoma City Airport Trust, SPappas@macokc.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Duit Construction Co Inc, johnp@duitconstruction.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Macarthur Associated Consultants LLC, ccapra@macokc.com
- (1) Macarthur Associated Consultants LLC, dfletcher@macokc.com
- (1) Macarthur Associated Consultants LLC, jharbaugh@macokc.com
- (1) RDM International Inc, mdiffin@rdmintlinc.com

CONCRETE BEAM FLEXURAL STRENGTH TEST REPORT

Report Number: 03221185.0231
Service Date: 05/18/23
Report Date: 06/15/23 Revision 2 - 28-day results
Task: Exploration-Field Services



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453

Client

City of Oklahoma City Airport Trust
Attn: Jarvis Carter
7100 Terminal Dr
Unit 937
Oklahoma City, OK 73159

Project

Rehabilitation-Reconstruction of Runway 13-31 Phase II
Will Rogers World Airport
Oklahoma City, OK 73159

Project Number: 03221185

Material Information

Specified Strength: 650 psi @ 28 days
Mix ID: P-501
Supplier: Duit
Batch Time: **Plant:**
Truck No.: N/A **Ticket No.:** N/A

Sample Information

Sample Date: 05/18/23 **Sample Time:** 1210
Sampled By: Joshua Dwaileebe
Weather Conditions: Cloudy with on and off rain
Accumulative Yards: N/A **Batch Size (cy):** 10
Placement Method: Slip form paver
Water Added Before (gal): 0
Water Added After (gal): 0
Samples Were: Molded
Sample Location: 3rd Panel of S. Radius
Placement Location: Taxiway F, West Side, South Radius, 5 Panels Long and NW half

Field Test Data

Test	Result	Specification
Slump (in):	2 3/4	Max 4
Air Content (%):	5.9	4 - 7
Concrete Temp. (F):	74	
Ambient Temp. (F):	64	
Plastic Unit Wt. (pcf):	144.2	

Laboratory Test Data

(Third-Point Loading)

Set No.	Specimen ID	Average Width (in)	Average Depth (in)	Span Length (in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Modulus of Rupture (psi)	Tested By	
1	A	6.14	6.00	18	05/24/23	05/25/23	7	6,870	560	SSW	
1	B	6.15	6.00	18	05/24/23	06/15/23	28	7,430	605	SSW	
1	C	6.17	6.00	18	05/24/23	06/15/23	28	7,480	605	SSW	
Average (28 days)									605	*	

Bearing Surface: Leather Shims Used

Initial Cure: See Comments

Final Cure: Moist Room

Comments: * Average flexural strength of 28 day beams does not comply with the specified strength.

Note: Reported air content does not include Aggregate Correction Factor (ACF).

Samples Made By: Terracon

Services: Obtain samples of fresh concrete (ASTM C-172) at the placement locations, perform required field tests and cast, cure and test flexural strength samples (ASTM C-31, C-78 or C-293).

Terracon Rep.: Joshua Dwaileebe

Reported To: Doug Fletcher with Macarthur

Contractor: Duit Construction

Report Distribution:

See attached distribution list.

Reviewed By:

Nicholas R. Schuessler
Department Manager

Test Methods: ASTM C78, ASTM C511

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently

Photo Log

Report Number: 03221185.0231
Service Date: 05/18/23
Report Date: 06/15/23 Revision 2 - 28-day results
Task: Exploration-Field Services



4701 N Stiles Ave
Oklahoma City, OK 73105-3330
405-525-0453



(P1) Location during paving.



(P2) Location during paving.

Distribution Page

Report Number: 03221185.0231

Service Date: 05718723

Report Date: 04715723 Revision 2 - 28-day results

Task: Exploration-Field Services



/ 601 N Stiles Ave

Oklahoma City, OK 63105-3330

/ 05-525-0/ 53

Distribution List

- (1) City of Oklahoma City Airport Trust, Jarvis.carter@okc.gov
- (1) City of Oklahoma City Airport Trust, john.storms@okc.gov
- (1) City of Oklahoma City Airport Trust, SPappas@macokc.com
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- (1) Duit Construction Co Inc, johnp@duitconstruction.com
- (1) Duit Construction Co Inc, javino@duitconstruction.com
- (1) Macarthur Associated Consultants LLC, ccapra@macokc.com
- (1) Macarthur Associated Consultants LLC, dfletcher@macokc.com
- (1) Macarthur Associated Consultants LLC, jharbaugh@macokc.com
- (1) RDM International Inc, mdiffin@rdmintlinc.com

ATTACHMENT 2



Action Safety Supply Co., LLC
 P.O. Box 270238
 Oklahoma City, OK 73137-0238
 Main Office: (405) 787-2244
 Tulsa Office: (918) 234-8222

E-INVOICE

Invoice Date	Invoice No.
11/21/2023	00265585

Terms: Net 30 Days

DUIT CONSTRUCTION
 P. O. Box 3788
 EDMOND, OK 73083

Job ID: 056576
 WRWA REHAP RUNWAY 13-31
 OKLAHOMA CITY/OKLAHOMA, OK

County:
Project#: OCAT WRWA 2210 AIP3-40-0072-087-2022

Customer	Customer Job No.	Customer P.O. No.	Period Covered	Foreman Name / Phone#		
1575		OCAT WRWA 2210	9/26/2023 - 11/18/2023	*		
Item	Description		Unit	Quantity	Price	Total
48	PERM PVMT MARKING CSUM <i>Curbs Removal, Layout</i>		SF	24,370	\$1.20 <i>\$11,078.50</i>	\$29,244.00 <i>\$11,078.50</i>
	PERM PVMT MARKING RMVL		SF	1,145.5	\$4.15	\$4,753.83

AMOUNT DUE \$33,997.83
 (Sales Tax Included) \$15,832.33
 *** **Final Billing** ***

Non Taxable	28,263.08	Tax Codes:	9999
Taxable	5,734.75		5588
Tax Exempt	0.00		5521