

REPORT OF CONCRETE CYLINDER TEST

MAPPA TESTLAB

1956 Richardson Hwy, North Pole, AK

Report Date: 12/10/25

Project Number: Cornerstone FTW 405 Range Control Report Number: 1

Project: FTW405 Range Control

Client: Cornerstone Construction

Address: 5050 Cordova Street

Anchorage, Alaska 99503

Attn:

FIELD TEST CONDITIONS AND RESULTS (ASTM C 31)

Date Placed: 10/11/2025

Time Sampled: 1pm

Location of Sample: Ammo Dump Pilaster Tower Stem Walls

Supplier: HC Redi- Mix

Truck Number:

Ticket Number: 187303

Mix Number: 6034I

Design Strength: 4500

Batch Size:

Slump: 5" (ASTM C 143)

Air Content: 6.2% (ASTM C 231)

Concrete Temp: 58°F (ASTM C 1064)

Ambient Temp: 44°F

Water Added:

Technician: Markus Mack

Initial Curing:

Final Curing:

Max Field Curing Temp.:

Min Field Curing Temp.:

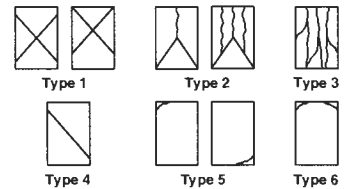
LABORATORY TEST RESULTS (ASTM C 39)

Specimen	Test Date	Age	Load	Diameter	Area	Strength	Percent of Design	Type of Fracture
25-2726	10/14/2025	3	53085	4.00	12.57	4220	94%	3
25-2727	10/14/2025	3	52250	4.00	12.57	4160	92%	3
25-2728	10/14/2025	3	50155	4.00	12.57	3990	89%	3
25-2729	10/18/2025	7	76225	4.00	12.57	6070	135%	3
25-2730	10/18/2025	7	75740	4.00	12.57	6030	134%	3
25-2731	10/18/2025	7	72310	4.00	12.57	5750	128%	3
25-2732	11/8/2025	28	83700	4.00	12.57	6660	148%	3
25-2733	11/8/2025	28	80755	4.00	12.57	6430	143%	3
25-2734	11/8/2025	28	80085	4.00	12.57	6370	142%	3
25-2735	12/6/2025	56	83935	4.00	12.57	6680	148%	3

Remarks:

Copies to:

TYPES OF FRACTURE



Reported by:

Stefan Mack

Stefan Mack

P.E. Engineer in Charge

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Report Date: 12/10/25

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Project: FTW405 Range Control

Client: Cornerstone Construction

Address: 5050 Cordova Street
Anchorage, Alaska 99503

Attn:

FIELD TEST CONDITIONS AND RESULTS (ASTM C 31)

Date Placed: 10/11/2025

Time Sampled: 1pm

Location of Sample: Ammo Dump Pilaster Tower Stem Walls

Supplier: HC Redi- Mix

Truck Number:

Ticket Number: 187303

Mix Number: 6034I

Design Strength: 4500

Batch Size:

Slump: 5" (ASTM C 143)

Air Content: 6.2% (ASTM C 231)

Concrete Temp: 58°F (ASTM C 1064)

Ambient Temp: 44°F

Water Added:

Technician: Markus Mack

Initial Curing:

Final Curing:

Max Field Curing Temp.:

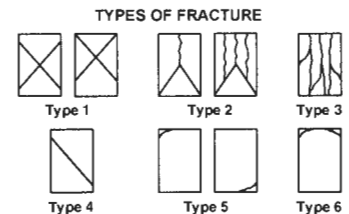
Min Field Curing Temp.:

LABORATORY TEST RESULTS (ASTM C 39)

Specimen	Test Date	Age	Load	Diameter	Area	Strength	Percent of Design	Type of Fracture
25-2736	12/6/2025	56	82595	4.00	12.57	6570	146%	3
25-2737	12/6/2025	56	88185	4.00	12.57	7020	156%	3

Remarks:

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P.E. Engineer in Charge

REPORT OF CONCRETE CYLINDER TEST

MAPPA TESTLAB

1956 Richardson Hwy, North Pole, AK

Report Date: 12/10/25

Project Number: Cornerstone FTW 405 Range Control Report Number: 2

Project: FTW405 Range Control

Client: Cornerstone Construction

Address: 5050 Cordova Street

Anchorage, Alaska 99503

Attn:

FIELD TEST CONDITIONS AND RESULTS (ASTM C 31)

Date Placed: 10/11/2025

Time Sampled: 530am

Location of Sample: Slab on Grade Classroom

Supplier: HC Redi- Mix

Truck Number:

Ticket Number: 187287

Mix Number: 5534I

Design Strength: 4000

Batch Size:

Slump: 4.50" (ASTM C 143)

Air Content: 2.8% (ASTM C 231)

Concrete Temp: 60°F (ASTM C 1064)

Ambient Temp: 33°F

Water Added:

Technician: Markus mack

Initial Curing:

Final Curing:

Max Field Curing Temp.:

Min Field Curing Temp.:

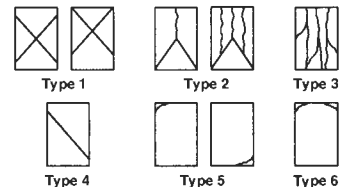
LABORATORY TEST RESULTS (ASTM C 39)

Specimen	Test Date	Age	Load	Diameter	Area	Strength	Percent of Design	Type of Fracture
25-2741	11/8/2025	28	91480	4.00	12.57	7280	182%	3
25-2742	11/8/2025	28	92055	4.00	12.57	7330	183%	3
25-2743	11/8/2025	28	94355	4.00	12.57	7510	188%	3
25-2744	12/6/2025	56	96410	4.00	12.57	7670	192%	3
25-2745	12/6/2025	56	94800	4.00	12.57	7540	189%	3
25-2746	12/6/2025	56	95575	4.00	12.57	7610	190%	3
25-2738	10/18/2025	7	79000	4.00	12.57	6290	157%	3
25-2739	10/18/2025	7	83940	4.00	12.57	6680	167%	3
25-2740	10/18/2025	7	83785	4.00	12.57	6670	167%	3

Remarks:

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