December 27, 2019

Joe Frogge
Commercial Plans Examiner
Lee's Summit Codes Administration
220 SE Green Street
Lee's Summit, Missouri

Re: Taco Bell
Store (AOG-18-358F)
I-470 & Woods Chapel Road
Alpha Omega Project Number: 19-358F

Dear Mr. Frogge,

We have received a final special inspections summary (Exhibit A) and daily special inspection reports (Exhibit B) from Alpha- Omega Geotech for the above referenced project. Please see below for responses and resolutions to the outstanding deviations.

Two deviations are noted in the attached daily reports and concrete breaks. The first, a low 28 day concrete compression test, indicates a 56 day concrete strength of 3970 psi (see page B003 of Exhibit B). This strength is adequate for the foundation in question.

The second deviation is noted on page B006 of Exhibit B. A spread footing at the northwest corner of the building was poured without the removal of a large rock below the footing. Some of the bottom mat of reinforcing was resting on the rock, the size of the rock in relation to the footing was not noted in the report. The location of the rock may cause cracking in the footing. This area should be monitored by the owner to ensure that cracking is caught and repaired quickly; however, as the special inspection reports do not note a lower than anticipated bearing at this location, this footing is structurally acceptable.

Per the attached information from Alpha-Omega the footings and foundations appear to be installed in substantial compliance with the construction documents. Please let us know if there are any additional discrepancies that need resolution.

Regards,
PMA Engineering

Valerie J K Baehr

Digitally signed by Valerie J K Baehr
Reason: I am the author of this document
Date: 2019.12.27 14:48:08-06'00'

STATE OF MISSOURI
VALERIE J.K. BAEHR
NUMBER PE-2017016721
PROFESSIONAL ENGINEER
12.27.2019

Valerie Baehr, P.E.
Senior Project Manager

ALPHA-OMEGA GEOTECH

1701 State Avenue
Kansas City, KS 66102

t 913-371-0000
f 913-371-6710

AOGeotech.com

December 27, 2019

Joe Frogge
Commercial Plans Examiner
Lee's Summit Codes Administration
220 SE Green Street
Lee's Summit, Missouri 64063

TACO BELL STORE [AOG-18-358F]

I-470 & WOODS CHAPEL ROAD
LEE'S SUMMIT, MISSOURI

Dear Joe:

We were retained by SSD First Street Development-Woods Chapel, LLC, the owner representative of the above-referenced project, to perform the following IBC 2018 Special Inspections:

Testing Reinforced Concrete
Placement of Reinforced Concrete
Placement of Reinforcing Steel
Engineered Filling and Grading
Verification of Soils - Footings
Post-Installed Anchors

Our client was informed of all available test results at the time the testing took place. Any discrepancies that were identified during the course of the Special Inspections listed above have been corrected. The work related to the above-referenced Special Inspection items is complete and to the best of my knowledge was found to be in substantial compliance with the project plans, specifications and applicable provisions of IBC 2018 International Building Code.

If you have any questions, or need additional information, please don't hesitate to call us at (913) 371-0000.

Sincerely,
ALPHA-OMEGA GEOTECH, INC.

Steven Usnick P.E.
Field and Laboratory Services Engineer

STATE OF MISSOURI
STEVEN C. USNICK
NUMBER
PE-2001018819
12/27/19
PROFESSIONAL ENGINEER

Concrete Cylinder Compression Test Report

ALPHA-OMEGA GEOTECH, INC.
1701 State Avenue
Kansas City, KS 66102
Office: (913) 371-0000 Fax: (913) 371-6710
Website: www.aogeotech.com

ALPHA-OMEGA GEOTECH

PROJECT NO.: 19-358 DATE CAST: 10/1/2019
PROJECT: Taco Bell - Lees Summit
CLIENT: First Street Development
CONTRACTOR: Tommy Concrete
SUPPLIER: Fordyce

MIX DATA

DESIGN STRENGTH (Project Plans): 4500
DESIGN SLUMP (Project Plans): 4±1"
DESIGN STRENGTH (Delivery Ticket): 4500
DESIGN SLUMP (Delivery Ticket): 5
DESIGN MIX CODE (Delivery Ticket): 345A2C17

UNIT WEIGHT:
TYPE OF MORTAR:
ADMIXTURES:
WATER:
CEMENT:
FINE AGGREGATE:
COARSE AGGREGATE:

CYLINDER DATA

LOCATION OF POUR: Footing, South spread footing 3/4 of pad
WEATHER: 90°F
TRUCK NO./TICKET NO.: 126/35208911
YARDS OF CONCRETE IN DELIVERY: 10
GAL OF WATER ADDED AT SITE: 0
DISP./TEST TIME: 1:12/2:00
CYLINDERS MADE BY: JM

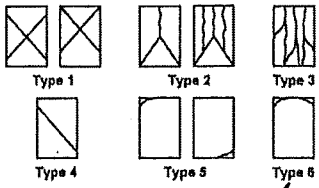
CYLINDER SIZE: 4"x8"
SLUMP: 5.50"
AIR CONTENT: 6.4%
CONCRETE TEMP.: 89°F
UNIT WEIGHT: NT
PICKED UP BY: AOG

CYL. NO.	AGE, DAYS	LABORATORY NUMBER	DATE REC'D	DATE OF TEST	CRUSHING, LOAD LBS.	PSI	FRACTURE	REPORT DATE
1	7	19-358 10-1 A	10/2/2019	10/8/2019	32,800	2,610	1	10/8/2019
2	28	19-358 10-1 A	10/2/2019	10/29/2019				
3	28	19-358 10-1 A	10/2/2019	10/29/2019				
4	28	19-358 10-1 A	10/2/2019	10/29/2019				
5	H	19-358 10-1 A	10/2/2019					

FRACTURE CODE: C-CONE, CSP-CONE & SPLIT, CSH-CONE & SHEAR, S-SHEAR, COL-COLUMNAR

CC:

TYPES OF FRACTURE



REMARKS:

ORIGINAL SIGNED BY: TW

Concrete Cylinder Compression Test Report

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1701 State Avenue
Kansas City, KS 66102
Office: (913) 371-0000 Fax: (913) 371-6710
Website: www.aogeotech.com

ALPHA-OMEGA GEOTECH

PROJECT NO.: 19-358 DATE CAST: 10/1/2019
PROJECT: Taco Bell - Lees Summit
CLIENT: First Street Development
CONTRACTOR: Tommy Concrete
SUPPLIER: Fordyce

MIX DATA

DESIGN STRENGTH (Project Plans): 4500
DESIGN SLUMP (Project Plans): 4±1"
DESIGN STRENGTH (Delivery Ticket): 4500
DESIGN SLUMP (Delivery Ticket): 5
DESIGN MIX CODE (Delivery Ticket): 345A2C17

UNIT WEIGHT:
TYPE OF MORTAR:
ADMIXTURES:
WATER:
CEMENT:
FINE AGGREGATE:
COARSE AGGREGATE:

CYLINDER DATA

LOCATION OF POUR: Footing, South spread footing 3/4 of pad
WEATHER: 90°F
TRUCK NO./TICKET NO.: 126/35208911
YARDS OF CONCRETE IN DELIVERY: 10
GAL OF WATER ADDED AT SITE: 0
DISP./TEST TIME: 1:12/2:00
CYLINDERS MADE BY: JM

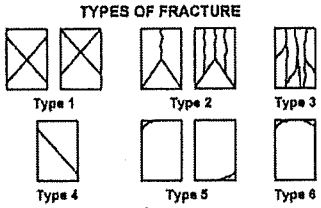
CYLINDER SIZE: 4"x8"
SLUMP: 5.50"
AIR CONTENT: 6.4%
CONCRETE TEMP.: 89°F
UNIT WEIGHT: NT
PICKED UP BY: AOG

CYL. NO.	AGE, DAYS	LABORATORY NUMBER	DATE REC'D	DATE OF TEST	CRUSHING, LOAD LBS.	PSI	FRACTURE	REPORT DATE
1	7	19-358 10-1 A	10/2/2019	10/8/2019	32,800	2,610	1	10/8/2019
2	28	19-358 10-1 A	10/2/2019	10/29/2019	43,440	3,460	1	10/29/2019
3	28	19-358 10-1 A	10/2/2019	10/29/2019	45,240	3,600	1	10/29/2019
4	28	19-358 10-1 A	10/2/2019	10/29/2019	47,000	3,740	1	10/29/2019
5	56	19-358 10-1 A	10/2/2019	11/26/2019				

FRACTURE CODE: C-CONE, CSP-CONE & SPLIT, CSH-CONE & SHEAR, S-SHEAR, COL-COLUMNAR

CC:

TYPES OF FRACTURE



REMARKS:
*28-day cylinders did not meet design strength
*56-day cylinder will be broken

ORIGINAL SIGNED BY: TW

Concrete Cylinder Compression Test Report

ALPHA-OMEGA GEOTECH, INC.
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Office: (913) 371-0000 Fax: (913) 371-6710
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ALPHA-OMEGA GEOTECH

PROJECT NO.: 19-358 DATE CAST: 10/1/2019
PROJECT: Taco Bell - Lees Summit
CLIENT: First Street Development
CONTRACTOR: Tommy Concrete
SUPPLIER: Fordyce

MIX DATA

DESIGN STRENGTH (Project Plans): 4500
DESIGN SLUMP (Project Plans): 4±1"

DESIGN STRENGTH (Delivery Ticket): 4500
DESIGN SLUMP (Delivery Ticket): 5
DESIGN MIX CODE (Delivery Ticket): 345A2C17

UNIT WEIGHT:
TYPE OF MORTAR:
ADMIXTURES:
WATER:
CEMENT:
FINE AGGREGATE:
COARSE AGGREGATE:

CYLINDER DATA

LOCATION OF POUR: Footing, South spread footing 3/4 of pad
WEATHER: 90°F
TRUCK NO./TICKET NO.: 126/35208911
YARDS OF CONCRETE IN DELIVERY: 10
GAL OF WATER ADDED AT SITE: 0
DISP./TEST TIME: 1:12/2:00
CYLINDERS MADE BY: JM

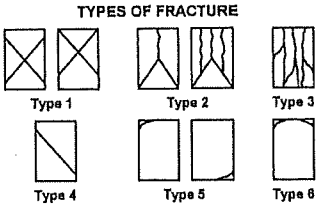
CYLINDER SIZE: 4"x8"
SLUMP: 5.50"
AIR CONTENT: 6.4%
CONCRETE TEMP.: 89°F
UNIT WEIGHT: NT
PICKED UP BY: AOG

CYL. NO.	AGE, DAYS	LABORATORY NUMBER	DATE REC'D	DATE OF TEST	CRUSHING, LOAD LBS.	PSI	FRACTURE	REPORT DATE
1	7	19-358 10-1 A	10/2/2019	10/8/2019	32,800	2,610	1	10/8/2019
2	28	19-358 10-1 A	10/2/2019	10/29/2019	43,440	3,460	1	10/29/2019
3	28	19-358 10-1 A	10/2/2019	10/29/2019	45,240	3,600	1	10/29/2019
4	28	19-358 10-1 A	10/2/2019	10/29/2019	47,000	3,740	1	10/29/2019
Low Concrete Break		19-358 10-1 A	10/2/2019	11/26/2019	50,080	3,970	1	11/26/2019

FRACTURE CODE: C-CONE, CSP-CONE & SPLIT, CSH-CONE & SHEAR, S-SHEAR, COL-COLUMNAR

CC:

TYPES OF FRACTURE



REMARKS:
*56-day cylinder did not meet design strength

ORIGINAL SIGNED BY: TW

Concrete Cylinder Compression Test Report

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1701 State Avenue
Kansas City, KS 66102
Office: (913) 371-0000 Fax: (913) 371-6710
Website: www.aogeotech.com

ALPHA-OMEGA GEOTECH

PROJECT NO.: 19-358 DATE CAST: 10/17/2019
PROJECT: Taco Bell - Lees Summit
CLIENT: First Street Development
CONTRACTOR: Tommy's Concrete
SUPPLIER:

MIX DATA

DESIGN STRENGTH (Project Plans): 4500
DESIGN SLUMP (Project Plans): NG
DESIGN STRENGTH (Delivery Ticket): NG
DESIGN SLUMP (Delivery Ticket): NG
DESIGN MIX CODE (Delivery Ticket): NG

UNIT WEIGHT:
TYPE OF MORTAR:
ADMIXTURES:
WATER:
CEMENT:
FINE AGGREGATE:
COARSE AGGREGATE:

CYLINDER DATA

LOCATION OF POUR: Footing, Double mat spread footing and northwest corner of building
WEATHER: NG
TRUCK NO./TICKET NO.: NG
YARDS OF CONCRETE IN DELIVERY: NG
GAL OF WATER ADDED AT SITE: NG
DISP./TEST TIME: NG
CYLINDERS MADE BY: Contractor

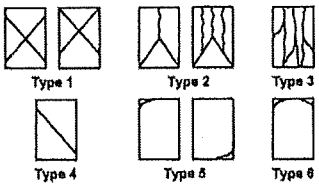
CYLINDER SIZE: 4"x8"
SLUMP: NG
AIR CONTENT: NG
CONCRETE TEMP.: NG
UNIT WEIGHT: NG
PICKED UP BY: AOG

CYL. NO.	AGE, DAYS	LABORATORY NUMBER	DATE REC'D	DATE OF TEST	CRUSHING, LOAD LBS.	PSI	FRACTURE	REPORT DATE
1	7	19-358 10-17 AC	10/18/2019	10/24/2019	54,180	4,290	1	10/24/2019
2	28	19-358 10-17 AC	10/18/2019	11/14/2019				
3	28	19-358 10-17 AC	10/18/2019	11/14/2019				
4	28	19-358 10-17 AC	10/18/2019	11/14/2019				
5	H	19-358 10-17 AC	10/18/2019					

FRACTURE CODE: C-CONE, CSP-CONE & SPLIT, CSH-CONE & SHEAR, S-SHEAR, COL-COLUMNAR

CC:

TYPES OF FRACTURE



REMARKS:

ORIGINAL SIGNED BY:

Concrete Cylinder Compression Test Report

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Website: www.aogeotech.com

ALPHA-OMEGA GEOTECH

PROJECT NO.: 19-358 DATE CAST: 10/17/2019
PROJECT: Taco Bell - Lees Summit
CLIENT: First Street Development
CONTRACTOR: Tommy's Concrete
SUPPLIER:

MIX DATA

DESIGN STRENGTH (Project Plans): 4500
DESIGN SLUMP (Project Plans): NG

DESIGN STRENGTH (Delivery Ticket): NG
DESIGN SLUMP (Delivery Ticket): NG
DESIGN MIX CODE (Delivery Ticket): NG

UNIT WEIGHT:
TYPE OF MORTAR:
ADMIXTURES:
WATER:
CEMENT:
FINE AGGREGATE:
COARSE AGGREGATE:

CYLINDER DATA

LOCATION OF POUR: Footing, Double mat spread footing and northwest corner of building
WEATHER: NG
TRUCK NO./TICKET NO.: NG
YARDS OF CONCRETE IN DELIVERY: NG
GAL OF WATER ADDED AT SITE: NG
DISP./TEST TIME: NG
CYLINDERS MADE BY: Contractor

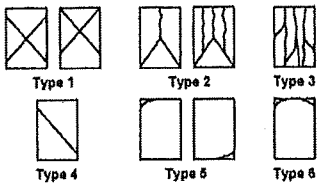
CYLINDER SIZE: 4"x8"
SLUMP: NG
AIR CONTENT: NG
CONCRETE TEMP.: NG
UNIT WEIGHT: NG
PICKED UP BY: AOG

CYL. NO.	AGE, DAYS	LABORATORY NUMBER	DATE REC'D	DATE OF TEST	CRUSHING, LOAD LBS.	PSI	FRACTURE	REPORT DATE
1	7	19-358 10-17 AC	10/18/2019	10/24/2019	54,180	4,290	1	10/24/2019
2	28	19-358 10-17 AC	10/18/2019	11/14/2019	72,220	5,720	1	11/14/2019
3	28	19-358 10-17 AC	10/18/2019	11/14/2019	68,980	5,460	1	11/14/2019
4	28	19-358 10-17 AC	10/18/2019	11/14/2019	71,620	5,670	1	11/14/2019
5	H	19-358 10-17 AC	10/18/2019					

FRACTURE CODE: C-CONE, CSP-CONE & SPLIT, CSH-CONE & SHEAR, S-SHEAR, COL-COLUMNAR

CC:

TYPES OF FRACTURE



REMARKS:

ORIGINAL SIGNED BY:

Reinforcing Steel Inspection Report

RSIR 32305

Alpha-Omega Geotech, Inc.
1701 State Avenue
Kansas City, KS 66102
Office: (913) 371-0000 / Fax: (913) 371-6710
Website: www.AOGeotech.com

ALPHA-OMEGA GEOTECH

Project Name: Taco Bell Store - Lees Summit

Project Location: I-470 & Wood's Chapel, Lees Summit, MO

Client: First Street Development Project #: 19-358F

Inspection Date: October 17, 2019 Technician: Jeremy Chilcutt

Site Conditions

Temp/Weather: 68°F / Sunny

Reinforcing Steel Inspection

Plans Used: Structural Contract Drawings: X

Drawing No: S.01, S.03, S1.0 & S4.0 Shop Drawings:

Rebar Location: Footing: spread footing and northwest corner of building

Rebar Size: Per Approved Drawing Yes [X] No [ ]
Spacing Within Tolerance: Yes [X] No [ ]

Supporting System: (Specify) Concrete bricks

	Yes	No
Straight:	X	
Clean:	X	
Tied:	X	
Clearance Per Specs:	X	

Rebar Disturbed During Placement? Yes [ ] No [X] NA [ ]

Drill & Epoxy Details (if applicable): NA [X] Product:
Embedment Depth:

Footing

Non-Compliances	Who Advised	How Corrected
The bottom mat on the east side of spread	Subcontractor	No correction made
footing was resting on a large rock		

Remarks

Reviewed By:

10-17-19 rbr

Concrete Cylinder Compression Test Report

ALPHA-OMEGA GEOTECH, INC.
1701 State Avenue
Kansas City, KS 66102
Office: (913) 371-0000 Fax: (913) 371-6710
Website: www.aogeotech.com

ALPHA-OMEGA GEOTECH

PROJECT NO.: 19-358 DATE CAST: 10/26/2019
PROJECT: Taco Bell - Lees Summit
CLIENT: First Street Development
CONTRACTOR: Tommy Concrete
SUPPLIER: Century

MIX DATA

DESIGN STRENGTH (Project Plans): NG
DESIGN SLUMP (Project Plans):
DESIGN STRENGTH (Delivery Ticket): NG
DESIGN SLUMP (Delivery Ticket): NG
DESIGN MIX CODE (Delivery Ticket): 340AZD31

UNIT WEIGHT:
TYPE OF MORTAR:
ADMIXTURES:
WATER:
CEMENT:
FINE AGGREGATE:
COARSE AGGREGATE:

CYLINDER DATA

LOCATION OF POUR: Slab
WEATHER: 60°F
TRUCK NO./TICKET NO.: 293/37206454
YARDS OF CONCRETE IN DELIVERY: 10
GAL OF WATER ADDED AT SITE: 0
DISP./TEST TIME: 10:06/10:35
CYLINDERS MADE BY: BM

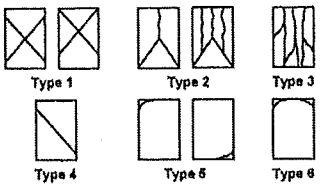
CYLINDER SIZE: 4"x8"
SLUMP: 6.25"
AIR CONTENT: NT
CONCRETE TEMP.: 61°F
UNIT WEIGHT: NT
PICKED UP BY: AOG

CYL. NO.	AGE, DAYS	LABORATORY NUMBER	DATE REC'D	DATE OF TEST	CRUSHING, LOAD LBS.	PSI	FRACTURE	REPORT DATE
1	7	19-358 10-26 A	10/28/2019	11/2/2019	49,840	3,950	1	11/2/2019
2	28	19-358 10-26 A	10/28/2019	11/23/2019				
3	28	19-358 10-26 A	10/28/2019	11/23/2019				
4	28	19-358 10-26 A	10/28/2019	11/23/2019				
5	H	19-358 10-26 A	10/28/2019					

FRACTURE CODE: C-CONE, CSP-CONE & SPLIT, CSH-CONE & SHEAR, S-SHEAR, COL-COLUMNAR

CC:

TYPES OF FRACTURE



REMARKS:

ORIGINAL SIGNED BY:

Concrete Cylinder Compression Test Report

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Office: (913) 371-0000 Fax: (913) 371-6710
Website: www.aogeotech.com

ALPHA-OMEGA GEOTECH

PROJECT NO.: 19-358F
DATE CAST: 12/5/2019
PROJECT: Taco Bell - Lees Summit
CLIENT: First Street Development
CONTRACTOR: Tommy's Concrete
SUPPLIER: Fordyce

MIX DATA

DESIGN STRENGTH (Project Plans): 4000
DESIGN SLUMP (Project Plans): 2±1"
DESIGN STRENGTH (Delivery Ticket): 4000
DESIGN SLUMP (Delivery Ticket): 3"
DESIGN MIX CODE (Delivery Ticket): 340D4E02

UNIT WEIGHT:
TYPE OF MORTAR:
ADMIXTURES:
WATER:
CEMENT:
FINE AGGREGATE:
COARSE AGGREGATE:

CYLINDER DATA

LOCATION OF POUR: Curb and gutter on south side of drive-through
WEATHER: 45°F / Partly Cloudy
TRUCK NO./TICKET NO.: 218 / 37207317
YARDS OF CONCRETE IN DELIVERY: 7
GAL OF WATER ADDED AT SITE: 0
DISP./TEST TIME: 11:22 / 12:00
CYLINDERS MADE BY: AOG

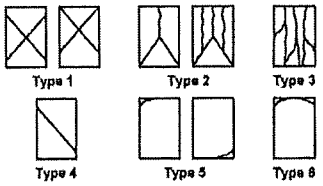
CYLINDER SIZE: 4"x8"
SLUMP: 2.5"
AIR CONTENT: 7.0%
CONCRETE TEMP.: NT
UNIT WEIGHT: NT
PICKED UP BY: AOG

CYL. NO.	AGE, DAYS	LABORATORY NUMBER	DATE REC'D	DATE OF TEST	CRUSHING, LOAD LBS.	PSI	FRACTURE	REPORT DATE
1	7	19-358F 12-5 A	12/6/2019	12/12/2019	57,060	4,520	1	12/12/2019
2	28	19-358F 12-5 A	12/6/2019	1/2/2020				
3	28	19-358F 12-5 A	12/6/2019	1/2/2020				
4	28	19-358F 12-5 A	12/6/2019	1/2/2020				
5	H	19-358F 12-5 A	12/6/2019					

FRACTURE CODE: C-CONE, CSP-CONE & SPLIT, CSH-CONE & SHEAR, S-SHEAR, COL-COLUMNAR

CC:

TYPES OF FRACTURE



REMARKS:

ORIGINAL SIGNED BY: TW

Field Report

Alpha-Omega Geotech, Inc.
1701 State Avenue
Kansas City, KS 66102
Office: (913) 371-0000 Fax: (913) 371-6710
Website: www.aogeotech.com

ALPHA-OMEGA GEOTECH

Project:	Taco Bell Store: Lee's Summit		
Location:	I-470 & Woods Chapels. Lee's Summit, MO		
Client:	First Street Development		
Date:	12/5/2019	Project Number:	19-358F
Report by:	Mike Capps	Weather:	57°F / Mostly Cloudy
Signed:			

Observed a proof roll of the subgrade of the east parking lot. Proof roll was done with a concrete truck loaded with 7 yards of concrete. No pumping or rutting was observed. Proof roll passes.

Concrete Cylinder Compression Test Report

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Kansas City, KS 66102
Office: (913) 371-0000 Fax: (913) 371-6710
Website: www.aogeotech.com

ALPHA-OMEGA GEOTECH

PROJECT NO.: 19-358F DATE CAST: 12/6/2019
PROJECT: Taco Bell - Lees Summit
CLIENT: First Street Development
CONTRACTOR: Tommy's Concrete
SUPPLIER: Century

MIX DATA

DESIGN STRENGTH (Project Plans): 4000
DESIGN SLUMP (Project Plans): 4±1"

DESIGN STRENGTH (Delivery Ticket): NG
DESIGN SLUMP (Delivery Ticket): 5"
DESIGN MIX CODE (Delivery Ticket): 345A2C17

UNIT WEIGHT:
TYPE OF MORTAR:
ADMIXTURES:
WATER:
CEMENT:
FINE AGGREGATE:
COARSE AGGREGATE:

CYLINDER DATA

LOCATION OF POUR: Footing for dumpster enclosure
WEATHER: 40°F / Sunny
TRUCK NO./TICKET NO.: 266 / 37207361
YARDS OF CONCRETE IN DELIVERY: 10
GAL OF WATER ADDED AT SITE: 0
DISP./TEST TIME: 12:19 / 12:40
CYLINDERS MADE BY: AOG

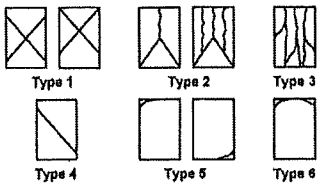
CYLINDER SIZE: 4"x8"
SLUMP: 4.5"
AIR CONTENT: NT
CONCRETE TEMP.: 72°F
UNIT WEIGHT: NT
PICKED UP BY: AOG

CYL. NO.	AGE, DAYS	LABORATORY NUMBER	DATE REC'D	DATE OF TEST	CRUSHING, LOAD LBS.	PSI	FRACTURE	REPORT DATE
1	7	19-358F 12-6 B	12/7/2019	12/13/2019	47,620	3,770	1	12/13/2019
2	28	19-358F 12-6 B	12/7/2019	1/3/2020				
3	28	19-358F 12-6 B	12/7/2019	1/3/2020				
4	28	19-358F 12-6 B	12/7/2019	1/3/2020				
5	H	19-358F 12-6 B	12/7/2019					

FRACTURE CODE: C-CONE, CSP-CONE & SPLIT, CSH-CONE & SHEAR, S-SHEAR, COL-COLUMNAR

CC:

TYPES OF FRACTURE



REMARKS:

ORIGINAL SIGNED BY: TW

Concrete Cylinder Compression Test Report

ALPHA-OMEGA GEOTECH, INC.
1701 State Avenue
Kansas City, KS 66102
Office: (913) 371-0000 Fax: (913) 371-6710
Website: www.aogeotech.com

ALPHA-OMEGA GEOTECH

PROJECT NO.: 19-358F DATE CAST: 12/6/2019
PROJECT: Taco Bell - Lees Summit
CLIENT: First Street Development
CONTRACTOR: Tommy's Concrete
SUPPLIER: Century

MIX DATA

DESIGN STRENGTH (Project Plans): 4000
DESIGN SLUMP (Project Plans): 4±1"

DESIGN STRENGTH (Delivery Ticket): NG
DESIGN SLUMP (Delivery Ticket): 5"
DESIGN MIX CODE (Delivery Ticket): 345A2C17

UNIT WEIGHT:
TYPE OF MORTAR:
ADMIXTURES:
WATER:
CEMENT:
FINE AGGREGATE:
COARSE AGGREGATE:

CYLINDER DATA

LOCATION OF POUR: Footing for dumpster enclosure
WEATHER: 40°F / Sunny
TRUCK NO./TICKET NO.: 266 / 37207361
YARDS OF CONCRETE IN DELIVERY: 10
GAL OF WATER ADDED AT SITE: 0
DISP./TEST TIME: 12:19 / 12:40
CYLINDERS MADE BY: AOG

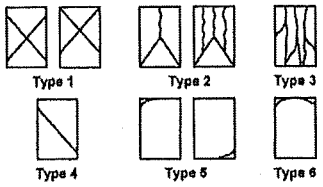
CYLINDER SIZE: 4"x8"
SLUMP: 4.5"
AIR CONTENT: NT
CONCRETE TEMP.: 72°F
UNIT WEIGHT: NT
PICKED UP BY: AOG

CYL. NO.	AGE, DAYS	LABORATORY NUMBER	DATE REC'D	DATE OF TEST	CRUSHING, LOAD LBS.	PSI	FRACTURE	REPORT DATE
1	7	19-358F 12-6 B	12/7/2019	12/13/2019	47,620	3,770	1	12/13/2019
2	28	19-358F 12-6 B	12/7/2019	1/3/2020				
3	28	19-358F 12-6 B	12/7/2019	1/3/2020				
4	28	19-358F 12-6 B	12/7/2019	1/3/2020				
5	H	19-358F 12-6 B	12/7/2019					

FRACTURE CODE: C-CONE, CSP-CONE & SPLIT, CSH-CONE & SHEAR, S-SHEAR, COL-COLUMNAR

CC:

TYPES OF FRACTURE



REMARKS:

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PROJECT NO.: 19-358F DATE CAST: 12/6/2019
PROJECT: Taco Bell - Lees Summit
CLIENT: First Street Development
CONTRACTOR: Tommy's Concrete
SUPPLIER: Century

MIX DATA

DESIGN STRENGTH (Project Plans): 4000
DESIGN SLUMP (Project Plans): 4±1"
DESIGN STRENGTH (Delivery Ticket): NG
DESIGN SLUMP (Delivery Ticket): 5"
DESIGN MIX CODE (Delivery Ticket): 345A2C17

UNIT WEIGHT:
TYPE OF MORTAR:
ADMIXTURES:
WATER:
CEMENT:
FINE AGGREGATE:
COARSE AGGREGATE:

CYLINDER DATA

LOCATION OF POUR: Footing for dumpster enclosure
WEATHER: 40°F / Sunny
TRUCK NO./TICKET NO.: 266 / 37207361
YARDS OF CONCRETE IN DELIVERY: 10
GAL OF WATER ADDED AT SITE: 0
DISP./TEST TIME: 12:19 / 12:40
CYLINDERS MADE BY: AOG

CYLINDER SIZE: 4"x8"
SLUMP: 4.5"
AIR CONTENT: NT
CONCRETE TEMP.: 72°F
UNIT WEIGHT: NT
PICKED UP BY: AOG

CYL. NO.	AGE, DAYS	LABORATORY NUMBER	DATE REC'D	DATE OF TEST	CRUSHING, LOAD LBS.	PSI	FRACTURE	REPORT DATE
1	7	19-358F 12-6 B	12/7/2019	12/13/2019	47,620	3,770	1	12/13/2019
2	28	19-358F 12-6 B	12/7/2019	1/3/2020				
3	28	19-358F 12-6 B	12/7/2019	1/3/2020				
4	28	19-358F 12-6 B	12/7/2019	1/3/2020				
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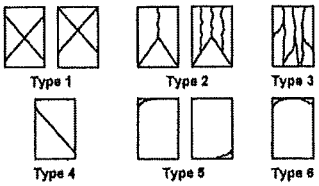
CC:

TYPES OF FRACTURE



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Concrete Cylinder Compression Test Report

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ALPHA-OMEGA GEOTECH

PROJECT NO.: 19-358F
DATE CAST: 12/9/2019
PROJECT: Taco Bell - Lees Summit
CLIENT: First Street Development
CONTRACTOR: Tommy's Concrete
SUPPLIER: Century

MIX DATA

DESIGN STRENGTH (Project Plans): NG
DESIGN SLUMP (Project Plans): 4±1"
DESIGN STRENGTH (Delivery Ticket): 4000
DESIGN SLUMP (Delivery Ticket): 4"
DESIGN MIX CODE (Delivery Ticket): 340D4E04

UNIT WEIGHT:
TYPE OF MORTAR:
ADMIXTURES:
WATER:
CEMENT:
FINE AGGREGATE:
COARSE AGGREGATE:

CYLINDER DATA

LOCATION OF POUR: East curb on west side of building; and north curb on south side of building
WEATHER: 44°F / Cloudy
TRUCK NO./TICKET NO.: 249 / 37207382
YARDS OF CONCRETE IN DELIVERY: 6
GAL OF WATER ADDED AT SITE: 0
DISP./TEST TIME: 8:30 / 8:55
CYLINDERS MADE BY: AOG

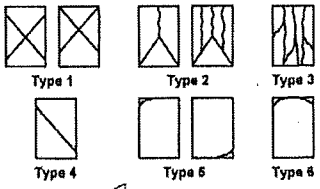
CYLINDER SIZE: 4"x8"
SLUMP: 3.25"
AIR CONTENT: 5.3%
CONCRETE TEMP.: 72°F
UNIT WEIGHT: NT
PICKED UP BY: AOG

CYL. NO.	AGE, DAYS	LABORATORY NUMBER	DATE REC'D	DATE OF TEST	CRUSHING, LOAD LBS.	PSI	FRACTURE	REPORT DATE
1	7	19-358F 12-9 A	12/10/2019	12/16/2019	62,580	4,960	1	12/16/2019
2	28	19-358F 12-9 A	12/10/2019	1/6/2020				
3	28	19-358F 12-9 A	12/10/2019	1/6/2020				
4	28	19-358F 12-9 A	12/10/2019	1/6/2020				
5	H	19-358F 12-9 A	12/10/2019					

FRACTURE CODE: C-CONE, CSP-CONE & SPLIT, CSH-CONE & SHEAR, S-SHEAR, COL-COLUMNAR

CC:

TYPES OF FRACTURE



REMARKS:

ORIGINAL SIGNED BY: T W

Concrete Cylinder Compression Test Report

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ALPHA-OMEGA GEOTECH

PROJECT NO.: 19-358F DATE CAST: 12/10/2019
PROJECT: Taco Bell - Lees Summit
CLIENT: First Street Development
CONTRACTOR: Tommy's Concrete
SUPPLIER: Century

MIX DATA

DESIGN STRENGTH (Project Plans): 4000
DESIGN SLUMP (Project Plans): 4±1"
DESIGN STRENGTH (Delivery Ticket): NG
DESIGN SLUMP (Delivery Ticket): 5
DESIGN MIX CODE (Delivery Ticket): 340D4E04

UNIT WEIGHT:
TYPE OF MORTAR:
ADMIXTURES:
WATER:
CEMENT:
FINE AGGREGATE:
COARSE AGGREGATE:

CYLINDER DATA

LOCATION OF POUR: Drive, South entrance
WEATHER: 36°F / Clear
TRUCK NO./TICKET NO.: 277/37207415
YARDS OF CONCRETE IN DELIVERY: 10
GAL OF WATER ADDED AT SITE: 0
DISP./TEST TIME: 11:30/12:00
CYLINDERS MADE BY: MC

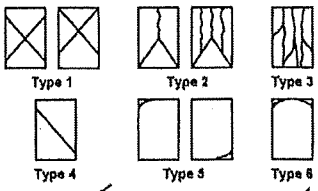
CYLINDER SIZE: 4"x8"
SLUMP: 6.00"
AIR CONTENT: 6.8%
CONCRETE TEMP.: 68°F
UNIT WEIGHT: NT
PICKED UP BY: AOG

CYL. NO.	AGE, DAYS	LABORATORY NUMBER	DATE REC'D	DATE OF TEST	CRUSHING, LOAD LBS.	PSI	FRACTURE	REPORT DATE
1	7	19-358F 12-10 A	12/11/2019	12/17/2019	47,240	3,740	1	12/17/2019
2	28	19-358F 12-10 A	12/11/2019	1/7/2020				
3	28	19-358F 12-10 A	12/11/2019	1/7/2020				
4	28	19-358F 12-10 A	12/11/2019	1/7/2020				
5	H	19-358F 12-10 A	12/11/2019					

FRACTURE CODE: C-CONE, CSP-CONE & SPLIT, CSH-CONE & SHEAR, S-SHEAR, COL-COLUMNAR

CC:

TYPES OF FRACTURE



REMARKS:

ORIGINAL SIGNED BY: TW

Asphalt Compaction Test Report

RCT 11305

Alpha-Omega Geotech, Inc.
1701 State Avenue
Kansas City, KS 66102
Office: (913) 371-0000 / Fax: (913) 371-6710
Website: www.AOGeotech.com

ALPHA-OMEGA GEOTECH

Job Name: Taco Bell Store: Lee's Summit
Job No.: 19-358F
Date: 12/12/2019
Job Address: I-470 & Woods Chapel Rd
City / State: Lee's Summit, MO
Client: First Street Development
Contractor:
Technician: J. Chilcutt
Reviewed:
Specification Requirements: 95% Marshal Density
Description of Sample: Base
Gauge No.: 16
Density Standard: 2719.7
Moisture Standard: 485.9

Marshall Results.....
Marshall Density, pcf: 149.6

Test Number	1	2	3	4	5	6	7	
Elev. or Lift #	Base	Base	Base	Base	Base	Base	Base	
% Asphalt	3.7	4.0	4.0	4.8	3.9	4.8	4.2	
Density	152.0	151.1	148.8	149.3	151.7	147.1	149.5	
% Marshall	101.6	101.0	99.5	99.8	101.4	98.3	99.9	

Test Number								
Elev. or Lift #								
% Asphalt								
Density								
% Marshall								

(Note: All elevations are approximate)

REMARKS:

LOCATION SKETCH

Note: Drawing is not to scale.

Asphalt Compaction Test Report

RCT 11305

Alpha-Omega Geotech, Inc.
1701 State Avenue
Kansas City, KS 66102
Office: (913) 371-0000 / Fax: (913) 371-6710
Website: www.AOGeotech.com

ALPHA-OMEGA GEOTECH

Job Name: Taco Bell Store: Lee's Summit
Job No.: 19-358F
Date: 12/12/2019
Job Address: I-470 & Woods Chapel Rd
City / State: Lee's Summit, MO
Client: First Street Development
Contractor:
Technician: J. Chilcutt
Reviewed:
Specification Requirements: 95% Marshal Density
Description of Sample: Surface
Gauge No.: 16
Density Standard: 2719.7
Moisture Standard: 485.9

Marshall Results.....
Marshall Density, pcf: 149.6

Test Number	8	9	10	11	12	13	14	
Elev. or Lift #	Surface	Surface	Surface	Surface	Surface	Surface	Surface	
% Asphalt	5.1	4.6	4.1	4.2	4.6	4.9	4.8	
Density	149.6	150.5	147.7	147.4	148.7	147.4	149.8	
% Marshall	100.0	100.6	98.7	98.5	99.4	98.5	100.1	

Test Number								
Elev. or Lift #								
% Asphalt								
Density								
% Marshall								

(Note: All elevations are approximate)

REMARKS:

LOCATION SKETCH

Note: Drawing is not to scale.

PROCTOR TEST REPORT

Project No.: 19-358F **Date:** 9/10/19
Project: Taco Bell Lees Summit
Client: First Street Development
Sample Number: 9/9A

Remarks:

MATERIAL DESCRIPTION

Description: Brown, spotted reddish brown and gray LEAN/FAT CLAY

Classifications - **USCS:** **AASHTO:**
Nat. Moist. = **Sp.G. =**
Liquid Limit = **Plasticity Index =**
% < No.200 =

TEST RESULTS
Maximum dry density = 102.4 pcf
Optimum moisture = 19.5 %

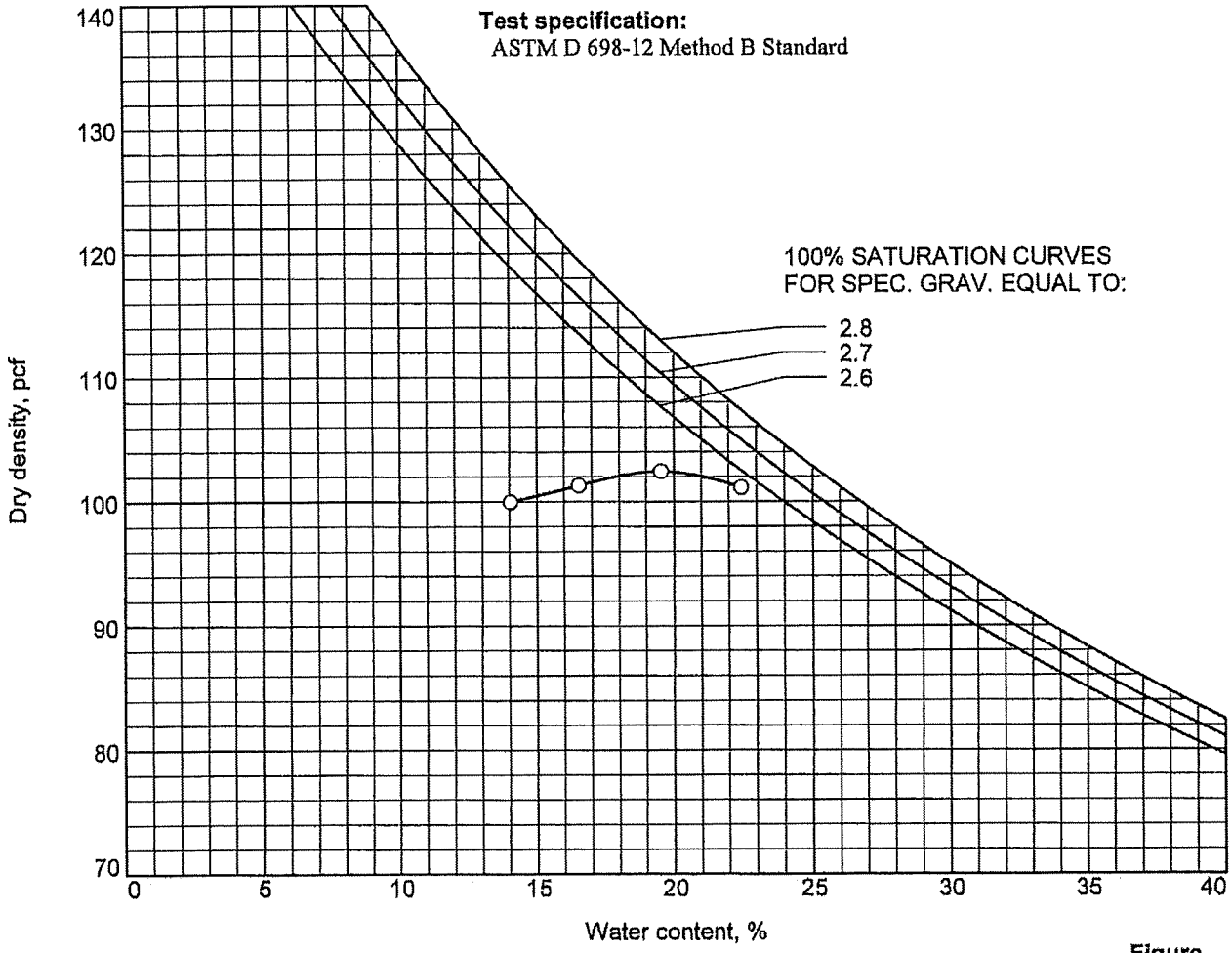


Figure 1 of 1

Alpha-Omega Geotech, Inc.

Tested By: DB **Checked By:** TB

PROCTOR TEST REPORT

Project No.: 19-358F **Date:** 9/10/19
Project: Taco Bell Lees Summit
Client: First Street Development
Sample Number: 9/9A

Remarks:

MATERIAL DESCRIPTION

Description: Brown, spotted reddish brown and gray LEAN/FAT CLAY

Classifications - **USCS:** **AASHTO:**
Nat. Moist. = **Sp.G. =**
Liquid Limit = 50 **Plasticity Index =** 26
% < No.200 =

TEST RESULTS
Maximum dry density = 102.4 pcf
Optimum moisture = 19.5 %

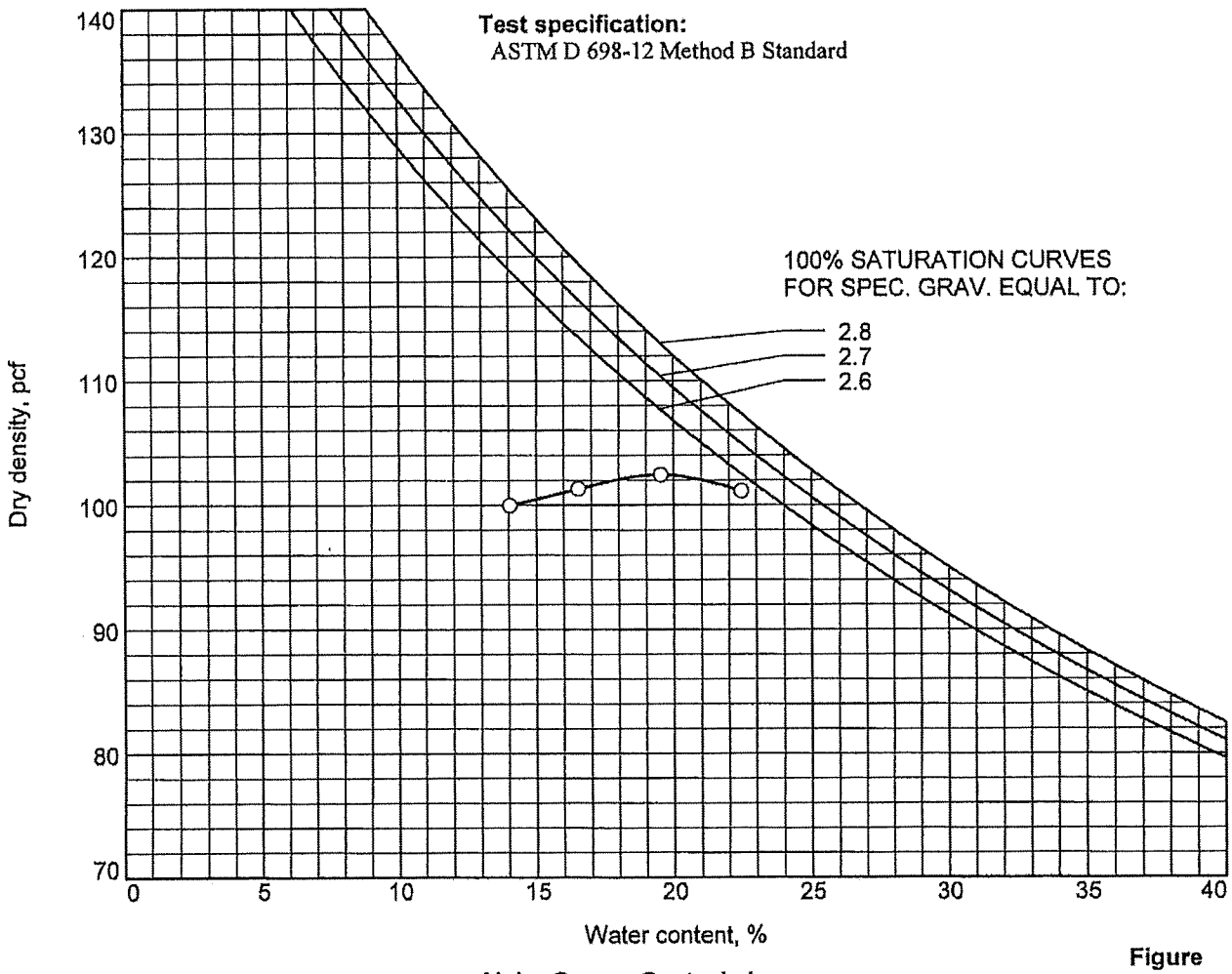


Figure 1 of 1

Alpha-Omega Geotech, Inc.

Tested By: DB **Checked By:** TB

Field Report

Alpha-Omega Geotech, Inc.
1701 State Avenue
Kansas City, KS 66102
Office: (913) 371-0000 Fax: (913) 371-6710
Website: www.aogeotech.com

ALPHA-OMEGA GEOTECH

Project:	Taco Bell Store: Lee's Summit		
Location:	I-470 & Woods Chapels. Lee's Summit, MO		
Client:	First Street Development		
Date:	10/9/2019	Project Number:	19-358F
Report by:	Blake Madden	Weather:	57°F / Mostly Cloudy
Signed:			

I arrived onsite to observe a proof roll of the subgrade for the Scooter's Coffee building east of the Taco Bell building. The subgrade was reddish brown clay with limestone fragments. The proof roll was done with a fully-loaded tandem axle dump truck loaded with soil. The subgrade appeared stable and did not exhibit any pumping or major rutting.

Reinforcing Steel Inspection Report

RSIR 32305

Alpha-Omega Geotech, Inc.
1701 State Avenue
Kansas City, KS 66102
Office: (913) 371-0000 / Fax: (913) 371-6710
Website: www.AOGeotech.com

ALPHA-OMEGA GEOTECH

Project Name: Taco Bell Store- Lees Summit

Project Location: I-470 & Wood's Chapel, Lees Summit, MO

Client: First Street Development Project #: 19-358F

Inspection Date: October 1, 2019 Technician: Jeff Marquez

Site Conditions

Temp/Weather: 90°F

Reinforcing Steel Inspection

Plans Used: Structural Contract Drawings: X

Drawing No: S4.0 Shop Drawings:

Rebar Location: Spread footing - South end

Rebar Size: Per Approved Drawing Yes [ ] No [ ]
Spacing Within Tolerance: Yes [ ] No [ ]

Supporting System: (Specify) Concrete bricks

	Yes	No
Straight:	X	
Clean:	X	
Tied:	X	
Clearance Per Specs:	X	

Rebar Disturbed During Placement? Yes [ ] No [X] NA [ ]

Drill & Epoxy Details (if applicable): NA [X] Product:
Embedment Depth:

Non-Compliances	Who Advised	How Corrected
None	Peter	

Remarks

Reviewed By:

10-1-19 rbr

Concrete Cylinder Compression Test Report

ALPHA-OMEGA GEOTECH, INC.
1701 State Avenue
Kansas City, KS 66102
Office: (913) 371-0000 Fax: (913) 371-6710
Website: www.aogeotech.com

ALPHA-OMEGA GEOTECH

PROJECT NO.: 19-358 DATE CAST: 10/26/2019
PROJECT: Taco Bell - Lees Summit
CLIENT: First Street Development
CONTRACTOR: Tommy Concrete
SUPPLIER: Century

MIX DATA

DESIGN STRENGTH (Project Plans): NG
DESIGN SLUMP (Project Plans):

DESIGN STRENGTH (Delivery Ticket): NG
DESIGN SLUMP (Delivery Ticket): NG
DESIGN MIX CODE (Delivery Ticket): 340AZD31

UNIT WEIGHT:
TYPE OF MORTAR:
ADMIXTURES:
WATER:
CEMENT:
FINE AGGREGATE:
COARSE AGGREGATE:

CYLINDER DATA

LOCATION OF POUR: Slab
WEATHER: 60°F
TRUCK NO./TICKET NO.: 293/37206454
YARDS OF CONCRETE IN DELIVERY: 10
GAL OF WATER ADDED AT SITE: 0
DISP./TEST TIME: 10:06/10:35
CYLINDERS MADE BY: BM

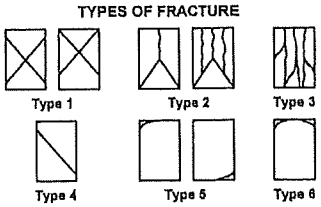
CYLINDER SIZE: 4"x8"
SLUMP: 6.25"
AIR CONTENT: NT
CONCRETE TEMP.: 61°F
UNIT WEIGHT: NT
PICKED UP BY: AOG

CYL. NO.	AGE, DAYS	LABORATORY NUMBER	DATE REC'D	DATE OF TEST	CRUSHING, LOAD LBS.	PSI	FRACTURE	REPORT DATE
1	7	19-358 10-26 A	10/28/2019	11/2/2019	49,840	3,950	1	11/2/2019
2	28	19-358 10-26 A	10/28/2019	11/23/2019	66,660	5,280	1	11/23/2019
3	28	19-358 10-26 A	10/28/2019	11/23/2019	66,620	5,280	1	11/23/2019
4	28	19-358 10-26 A	10/28/2019	11/23/2019	62,820	4,970	1	11/23/2019
5	H	19-358 10-26 A	10/28/2019					

FRACTURE CODE: C-CONE, CSP-CONE & SPLIT, CSH-CONE & SHEAR, S-SHEAR, COL-COLUMNAR

CC:

TYPES OF FRACTURE



REMARKS:

ORIGINAL SIGNED BY:

Concrete Cylinder Compression Test Report

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PROJECT: Taco Bell - Lees Summit
CLIENT: First Street Development
CONTRACTOR: Tommy Concrete
SUPPLIER: Century

MIX DATA

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DESIGN SLUMP (Project Plans):

DESIGN STRENGTH (Delivery Ticket): NG
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DESIGN MIX CODE (Delivery Ticket): 340AZD31

UNIT WEIGHT:
TYPE OF MORTAR:
ADMIXTURES:
WATER:
CEMENT:
FINE AGGREGATE:
COARSE AGGREGATE:

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LOCATION OF POUR: Slab
WEATHER: 60°F
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GAL OF WATER ADDED AT SITE: 0
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CYLINDERS MADE BY: BM

CYLINDER SIZE: 4"x8"
SLUMP: 6.25"
AIR CONTENT: NT
CONCRETE TEMP.: 61°F
UNIT WEIGHT: NT
PICKED UP BY: AOG

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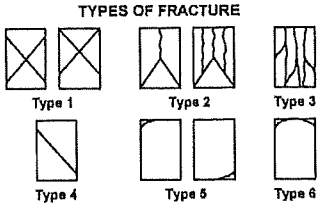
2	28	19-358 10-26 A	10/28/2019	11/23/2019	66,660	5,280	1	11/23/2019
3	28	19-358 10-26 A	10/28/2019	11/23/2019	66,620	5,280	1	11/23/2019
4	28	19-358 10-26 A	10/28/2019	11/23/2019	62,820	4,970	1	11/23/2019
5	H	19-358 10-26 A	10/28/2019					

FRACTURE CODE: C-CONE, CSP-CONE & SPLIT, CSH-CONE & SHEAR, S-SHEAR, COL-COLUMNAR

CC:

TYPES OF FRACTURE



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DESIGN SLUMP (Project Plans):

DESIGN STRENGTH (Delivery Ticket): NG
DESIGN SLUMP (Delivery Ticket): NG
DESIGN MIX CODE (Delivery Ticket): 340AZD31

UNIT WEIGHT:
TYPE OF MORTAR:
ADMIXTURES:
WATER:
CEMENT:
FINE AGGREGATE:
COARSE AGGREGATE:

CYLINDER DATA

LOCATION OF POUR: Slab
WEATHER: 60°F
TRUCK NO./TICKET NO.: 293/37206454
YARDS OF CONCRETE IN DELIVERY: 10
GAL OF WATER ADDED AT SITE: 0
DISP./TEST TIME: 10:06/10:35
CYLINDERS MADE BY: BM

CYLINDER SIZE: 4"x8"
SLUMP: 6.25"
AIR CONTENT: NT
CONCRETE TEMP.: 61°F
UNIT WEIGHT: NT
PICKED UP BY: AOG

CYL. NO.	AGE, DAYS	LABORATORY NUMBER	DATE REC'D	DATE OF TEST	CRUSHING, LOAD LBS.	PSI	FRACTURE	REPORT DATE
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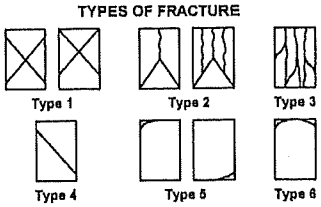
4	28	19-358 10-26 A	10/28/2019	11/23/2019	62,820	4,970	1	11/23/2019
5	H	19-358 10-26 A	10/28/2019					

FRACTURE CODE: C-CONE, CSP-CONE & SPLIT, CSH-CONE & SHEAR, S-SHEAR, COL-COLUMNAR

CC:

TYPES OF FRACTURE



REMARKS:

ORIGINAL SIGNED BY:

Concrete Cylinder Compression Test Report

ALPHA-OMEGA GEOTECH, INC.
1701 State Avenue
Kansas City, KS 66102
Office: (913) 371-0000 Fax: (913) 371-6710
Website: www.aogeotech.com

ALPHA-OMEGA GEOTECH

PROJECT NO.: 19-358 DATE CAST: 12/6/2019
PROJECT: Taco Bell - Lees Summit
CLIENT: First Street Development
CONTRACTOR: Tommy's Concrete
SUPPLIER: Fordyce

MIX DATA

DESIGN STRENGTH (Project Plans): 4000
DESIGN SLUMP (Project Plans): 2±1"

DESIGN STRENGTH (Delivery Ticket): 4000
DESIGN SLUMP (Delivery Ticket): 3"
DESIGN MIX CODE (Delivery Ticket): 340D4E02

UNIT WEIGHT:
TYPE OF MORTAR:
ADMIXTURES:
WATER:
CEMENT:
FINE AGGREGATE:
COARSE AGGREGATE:

CYLINDER DATA

LOCATION OF POUR: Curb and gutter at south end of drive-through
WEATHER: 35°F / Overcast
TRUCK NO./TICKET NO.: 287 / 37207342
YARDS OF CONCRETE IN DELIVERY: 6
GAL OF WATER ADDED AT SITE: 0
DISP./TEST TIME: 8:17 / 9:45
CYLINDERS MADE BY: AOG

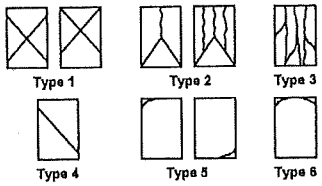
CYLINDER SIZE: 4"x8"
SLUMP: 4"
AIR CONTENT: 6.8%
CONCRETE TEMP.: 70°F
UNIT WEIGHT: NT
PICKED UP BY: AOG

CYL. NO.	AGE, DAYS	LABORATORY NUMBER	DATE REC'D	DATE OF TEST	CRUSHING, LOAD LBS.	PSI	FRACTURE	REPORT DATE
1	4	19-358 12-6 A	12/7/2019	12/10/2019	50,920	4,030	1	12/10/2019
2	28	19-358 12-6 A	12/7/2019	1/3/2020				
3	28	19-358 12-6 A	12/7/2019	1/3/2020				
4	28	19-358 12-6 A	12/7/2019	1/3/2020				
5	H	19-358 12-6 A	12/7/2019					

FRACTURE CODE: C-CONE, CSP-CONE & SPLIT, CSH-CONE & SHEAR, S-SHEAR, COL-COLUMNAR

CC:

TYPES OF FRACTURE



REMARKS:

ORIGINAL SIGNED BY: TW

Field Report

Alpha-Omega Geotech, Inc.
1701 State Avenue
Kansas City, KS 66102
Office: (913) 371-0000 Fax: (913) 371-6710
Website: www.aogeotech.com

ALPHA-OMEGA GEOTECH

Project:	Taco Bell Store: Lee's Summit		
Location:	I-470 & Woods Chapels, Lee's Summit, MO		
Client:	First Street Development		
Date:	9/17/2019	Project Number:	19-358F
Report by:	Calvin Hiebert	Weather:	90's°F / sunny
Signed:			

I arrived onsite to observe a proof roll of the building subgrade.

The subgrade was reddish brown clay with limestone fragments. The proof roll was done with a tandem axle dump truck loaded with soil. Most of the subgrade showed minimal movement except an area in the center, along the east side of the building. This area showed pumping and rutting.

Larry Bair of Bair Excavating over-excavated the area to a limestone layer and backfilled with a dry soil.

Field Report

Alpha-Omega Geotech, Inc.
1701 State Avenue
Kansas City, KS 66102
Office: (913) 371-0000 Fax: (913) 371-6710
Website: www.aogeotech.com

ALPHA-OMEGA GEOTECH

Project:	Taco Bell Store: Lee's Summit		
Location:	I-470 & Woods Chapels, Lee's Summit, MO		
Client:	First Street Development		
Date:	9/17/2019	Project Number:	19-358F
Report by:	Calvin Hiebert	Weather:	90's°F / sunny
Signed:			

I arrived onsite to observe a proof roll of the building subgrade.

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Compaction Test Report

RCT 11305

Alpha-Omega Geotech, Inc.
1701 State Avenue
Kansas City, KS 66102
Office: (913) 371-0000 / Fax: (913) 371-6710
Website: www.aogeotech.com

ALPHA-OMEGA GEOTECH

Job Name: Taco Bell Store- Lee's Summit
Job Address: I-470 & Wood's Chapel
Client: First Street Development
Technician: Calvin Hiebert
Specification Requirements: 95% MDD
Description of Sample: Limestone screenings
Gauge No.: 13 Density Standard: 2578.0

Job No.: 19-358F Date: 9/19/2019
City / State: Lee's Summit, MO
Contractor: Larry Bair Excavation
Reviewed:

Moisture Standard: 480.0

Proctor Results..... Maximum Dry Density, pcf: 129.1 Optimum Moisture Content, %: 9.7

Test Number	1 - 8"	2 - 8"	3 - 8"	4 - 8"				
Elev. or Lift #	Surface	Surface	Surface	Surface				
% Moisture	9.5	8.4	9.4	8.8				
Wet Density	145.0	142.5	142.1	138.7				
Dry Density	132.4	131.5	129.9	127.5				
% Compaction	102.6	101.8	100.6	98.7				
+/ - O.M.C.	- 0.2	- 1.3	- 0.3	- 0.9				

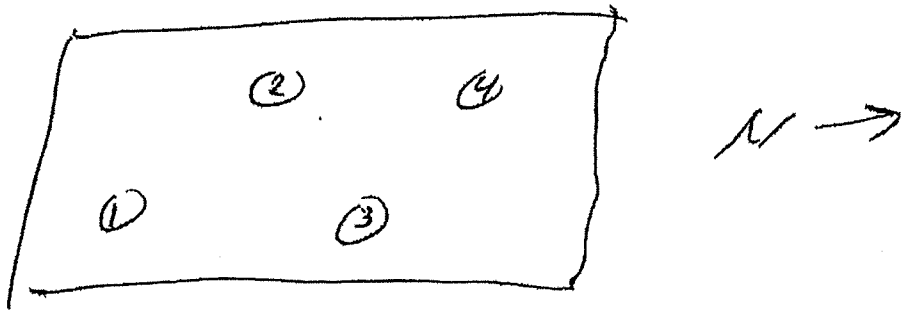
Test Number								
Elev. or Lift #								
% Moisture								
Wet Density								
Dry Density								
% Compaction								
+/ - O.M.C.								

(Note: All elevations are approximate)

REMARKS: Surface = top lift

LOCATION SKETCH

Note: Drawing is not to scale.



9-19-19 comp

Reinforcing Steel Inspection Report

RSIR 32305

Alpha-Omega Geotech, Inc.
1701 State Avenue
Kansas City, KS 66102
Office: (913) 371-0000 / Fax: (913) 371-6710
Website: www.AOGeotech.com

ALPHA-OMEGA GEOTECH

Project Name: Taco Bell Store - Lees Summit

Project Location: I-470 & Wood's Chapel, Lees Summit, MO

Client: First Street Development Project #: 19-358F

Inspection Date: December 6, 2019 Technician: Mike Capps

Site Conditions

Temp/Weather: 34°F/ Overcast

Reinforcing Steel Inspection

Plans Used: Structural Contract Drawings: X

Drawing No: A9 Shop Drawings:

Rebar Location: Trash enclosure footings

Rebar Size: Per Approved Drawing Yes [X] No [ ]
Spacing Within Tolerance: Yes [X] No [ ]

Supporting System: (Specify) Concrete bricks

Straight:	Yes [X]	No [ ]
Clean:	Yes [X]	No [ ]
Tied:	Yes [X]	No [ ]
Clearance Per Specs:	Yes [X]	No [ ]

Rebar Disturbed During Placement? Yes [ ] No [X] NA [ ]

Drill & Epoxy Details (if applicable): NA [X] Product:
Embedment Depth:

Non-Compliances	Who Advised	How Corrected
None		

Remarks

Reviewed By:

12-6-19 rbr

Footing Inspection Report

FIR 20305

Alpha-Omega Geotech, Inc.
1701 State Avenue
Kansas City, KS 66102
Office: (913) 371-0000 / Fax: (913) 371-6710
Website: www.AOGeotech.com

ALPHA-OMEGA GEOTECH

Project Name: Taco Bell Lee's Summit
Project Address: I-470 & Wood's Chapel
City / State: Lee's Summit
Client: First Street Development
Project No.: 19-358F
Inspection Date: December 6, 2019
Technician: Mike Capps
Temp / Weather: 35°/ Overcast

Footing Inspection

Location of Footings Inspected: Trash Enclosure

Continuous Wall Footings [x] Isolated Column Footings [ ]

Dimensions: 2' x 2' Depth: 26"

Allowable Bearing Capacity: 2,500 (psf)

Source of Allowable Bearing Capacity: Project Plans [x] Sheet No.: **S0.1, 0.2**
Specification Book [ ] Section No.: ____
Page No.: ____

Visual Description (ASTM D2488) of Material Exposed in Base of Footing Excavations:
Weathered Shale

Uniform Bearing Conditions Throughout 100% of the Footing Excavations:

No [ ] If No, Explain: ____
Yes [x]

Range of Pocket Penetrometer Readings: ____ (tsf) ____ (psf)

Soft Areas or Soft Underlying Layers of Soil Encountered by Probing with Engineer's T-Rod:

No [x]
Yes [ ] If Yes, Explain: ____

Footing Excavations Properly Squared and Free of Excessive Loose Debris & All Ponded Water:

No [ ] If No, Explain: ____
Yes [x]

Provided Results of this Inspection to: ____ of ____

Additional Remarks

Reviewed By: ____

Anchor Bolt Inspection Report

Alpha-Omega Geotech, Inc.
1701 State Avenue
Kansas City, KS 66102
Office: (913) 371-0000 / Fax: (913) 371-6710
Website: www.AOGeotech.com

ALPHA-OMEGA GEOTECH

Project Name: Taco Bell Store: Lee's Summit

Project Location: I-470 & Wood's Chapel, Lee's Summit, MO

Client: First Street Development Project #: 19-358F

Inspection Date: October 24, 2019 Technician: Calvin Hiebert

Site Conditions

Temp/Weather: 40° Clouds

Anchor Bolt Inspection

Plans Used: Site Contract Drawings: X

Drawing No: S/10 7/54, 01 Shop Drawings:

Location: North, South, West Wall Hold Down Anchor Bolts

	Yes	No
Bolt Diameter & Length: Per Approved Drawing	X	
Correct Bolt Pattern Used:	X	

Installation Procedure: (Specify) Drill & Eopxy

	Yes	No	NA
Straight:	X		
Clean:	X		
Correct Embedment Depth	X		
Correct Projection Length:	X		
Concrete Coverage Per Specs:	X		
Bolts Disturbed During Placement?			X

Drill & Epoxy Details (if applicable): NA [ ] Product: Strong - tite XP
Embedment Depth: 5/8" - 8", 7/8 & 1 1/8 - 12"

Non-Compliances	Who Advised	How Corrected
None	Peter	

Remarks

Reviewed By:

10-24-19 ABI

Anchor Bolt Inspection Report

Alpha-Omega Geotech, Inc.
1701 State Avenue
Kansas City, KS 66102
Office: (913) 371-0000 / Fax: (913) 371-6710
Website: www.AOGeotech.com

ALPHA-OMEGA GEOTECH

Project Name: Taco Bell Store: Lee's Summit

Project Location: I-470 & Wood's Chapel, Lee's Summit, MO

Client: First Street Development Project #: 19-358F

Inspection Date: October 25, 2019 Technician: Tracy Welhoff

Site Conditions

Temp/Weather: 50° Sunny

Anchor Bolt Inspection

Plans Used: Structure Contract Drawings: X

Drawing No: 54 Shop Drawings:

Location: East shear walll hold downs

Bolt Diameter & Length: Per Approved Drawing	Yes	X	No	
Correct Bolt Pattern Used:	Yes	X	No	

Installation Procedure: (Specify) Drill & Eopxy

Straight:	Yes	X	No			
Clean:	Yes	X	No			
Correct Embedment Depth	Yes	X	No			
Correct Projection Length:	Yes	X	No			
Concrete Coverage Per Specs:	Yes		No		NA	X
Bolts Disturbed During Placement?	Yes		No		NA	X

Drill & Epoxy Details (if applicable): NA [ ] Product: **Simpson at XP 10**
Embedment Depth: **8"**

Non-Compliances	Who Advised	How Corrected
None		

Remarks

Reviewed By:

10-25-19 ABI