



Professional Service Industries, Inc.
1211 W. Cambridge Circle Drive
Kansas City, KS 66103

Phone: (913) 310-1600
Fax: (913) 310-1601

Report No: FDR:03533297-14

Issue No: 1

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Field Density Test Report

Client: CITYSCAPE RESIDENTIAL
8335 KEYSTONE CROSSING,
SUITE 220
INDIANAPOLIS, IN 46240

CC: K ONEIL
M PATARINO
M WEBBER
T WATREAS

Project: 2ND & DOUGLAS APARTMENTS
LEE'S SUMMIT, MO

Approved Signatory: Muhammad Khan (Project Manager)
Date of Issue: 6/1/2020

Testing Details

Tested By: LeeAnthony Crane
Date Tested: 5/29/2020
Field Methods: ASTM D 6938
Gauge Type: Troxler
Model Number: 3430
Serial Number: 39258
Test Mode: Direct Transmission
Standard Count: Density: 2261
Standard Count: Moisture: 696

Proctor Information

Sample ID	Material	Method	MDD (lb/ft ³)	OWC (%)
03533297-1-S3 (SO)	Br fat clay w/sand & tr grvl	ASTM D 698 (A)	104.7	20.2

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft ³)	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft ³)	Comp (%)	Comp Spec (%)	Results
1	03533297-1-S3	12	122.9	21.3	+1.1	0 to +3	101.3	96.8	≥95	A
2	03533297-1-S3	12	124.5	21.3	+1.1	0 to +3	102.6	98.0	≥95	A
3	03533297-1-S3	12	123.6	22.9	+2.7	0 to +3	100.6	96.1	≥95	A
4	03533297-1-S3	12	122.5	22.6	+2.4	0 to +3	99.9	95.4	≥95	A
5	03533297-1-S3	12	123.9	21.5	+1.3	0 to +3	102.0	97.4	≥95	A
6	03533297-1-S3	12	124.6	21.9	+1.7	0 to +3	102.2	97.6	≥95	A

Location

General Location: Sanitary trench-Line A

Test No.	Location	Test Elev/Depth	Material/Layer
1	1+00	FG	Backfill
2	1+00	-1'	Backfill
3	1+00	-2'	Backfill
4	1+00	-3'	Backfill
5	1+00	-4'	Backfill
6	1+00	-5'	Backfill

Comments

(SO) = Sampled By Others

Legend

OWC = Optimum Water Content
MDD = Maximum Dry Density
A = TEST RESULTS COMPLY WITH SPECIFICATION



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Date of Issue: 6/1/2020

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Project: 2ND & DOUGLAS APARTMENTS
LEE'S SUMMIT, MO

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft ³)	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft ³)	Comp (%)	Comp Spec (%)	Results
7	03533297-1-S3	12	124.1	22.8	+2.6	0 to +3	101.1	96.6	≥95	A
8	03533297-1-S3	12	122.5	23.1	+2.9	0 to +3	99.5	95.0	≥95	A
9	03533297-1-S3	12	122.6	22.1	+1.9	0 to +3	100.4	95.9	≥95	A
10	03533297-1-S3	12	123.6	22.6	+2.4	0 to +3	100.8	96.3	≥95	A
11	03533297-1-S3	12	122.1	21.9	+1.7	0 to +3	100.2	95.7	≥95	A
12	03533297-1-S3	12	124.5	21.8	+1.6	0 to +3	102.2	97.6	≥95	A

Location

General Location: Sanitary trench-Line A

Test No.	Location	Test Elev/Depth	Material/Layer
7	1+00	-6'	Backfill
8	0+50	-6'	Backfill
9	0+50	-5'	Backfill
10	0+50	-4'	Backfill
11	0+50	-3'	Backfill
12	0+50	-2'	Backfill

Comments

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Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft ³)	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft ³)	Comp (%)	Comp Spec (%)	Results
13	03533297-1-S3	12	122.6	22.1	+1.9	0 to +3	100.4	95.9	≥95	A
14	03533297-1-S3	12	123.5	23.0	+2.8	0 to +3	100.4	95.9	≥95	A

Location

General Location: Sanitary trench-Line A

Test No.	Location	Test Elev/Depth	Material/Layer
13	0+50	-1'	Backfill
14	0+50	FG	Backfill

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Report No: FDR:03533297-15

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Field Density Test Report

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8335 KEYSTONE CROSSING,
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INDIANAPOLIS, IN 46240

CC: K ONEIL
M PATARINO
M WEBBER
T WATREAS

Project: 2ND & DOUGLAS APARTMENTS
LEE'S SUMMIT, MO

Approved Signatory: Muhammad Khan (Project Manager)
Date of Issue: 6/4/2020

Testing Details

Tested By: LeeAnthony Crane
Date Tested: 6/2/2020
Field Methods: ASTM D 6938
Gauge Type: Troxler
Model Number: 3430
Serial Number: 39258
Test Mode: Direct Transmission
Standard Count: Density: 2289
Standard Count: Moisture: 701

Proctor Information

Sample ID	Material	Method	MDD (lb/ft ³)	OWC (%)
03533297-1-S3 (SO)	Br fat clay w/sand & tr grvl	ASTM D 698 (A)	104.7	20.2

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft ³)	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft ³)	Comp (%)	Comp Spec (%)	Results
1	03533297-1-S3	12	123.2	22.4	+2.2	0 to +3	100.7	96.2	≥95	A
2	03533297-1-S3	12	122.3	22.8	+2.6	0 to +3	99.6	95.1	≥95	A
3	03533297-1-S3	12	124.4	22.9	+2.7	0 to +3	101.2	96.7	≥95	A
4	03533297-1-S3	12	123.9	23.6	+3.4	0 to +3	100.2	95.7	≥95	A
5	03533297-1-S3	12	122.8	23.0	+2.8	0 to +3	99.8	95.3	≥95	A
6	03533297-1-S3	12	122.3	21.9	+1.7	0 to +3	100.3	95.8	≥95	A

Location

General Location: Sanitary trench Line A

Test No.	Location	Test Elev/Depth	Material/Layer
1	1+50	-6	Backfill
2	1+50	-5'	Backfill
3	1+50	-4'	Backfill
4	1+50	-3'	Backfill
5	1+50	-2'	Backfill
6	1+50	-1'	Backfill

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Report No: FDR:03533297-15

Issue No: 1

Field Density Test Report

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CC: K ONEIL
M PATARINO
M WEBBER
T WATREAS

Project: 2ND & DOUGLAS APARTMENTS
LEE'S SUMMIT, MO

Approved Signatory: Muhammad Khan (Project Manager)
Date of Issue: 6/4/2020

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft ³)	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft ³)	Comp (%)	Comp Spec (%)	Results
7	03533297-1-S3	12	123.6	22.1	+1.9	0 to +3	101.2	96.7	≥95	A
8	03533297-1-S3	12	123.3	22.1	+1.9	0 to +3	101.0	96.5	≥95	A
9	03533297-1-S3	12	122.0	22.5	+2.3	0 to +3	99.6	95.1	≥95	A
10	03533297-1-S3	12	122.7	22.6	+2.4	0 to +3	100.1	95.6	≥95	A
11	03533297-1-S3	12	123.0	22.2	+2.0	0 to +3	100.7	96.2	≥95	A
12	03533297-1-S3	12	122.9	22.3	+2.1	0 to +3	100.5	96.0	≥95	A

Location

General Location: Sanitary trench Line A

Test No.	Location	Test Elev/Depth	Material/Layer
7	1+50	FG	Backfill
8	2+00	FG	Backfill
9	2+00	-1'	Backfill
10	2+00	-2'	Backfill
11	2+00	-3'	Backfill
12	2+00	-4'	Backfill

Comments

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T WATREAS

Project: 2ND & DOUGLAS APARTMENTS
LEE'S SUMMIT, MO

Approved Signatory: Muhammad Khan (Project Manager)
Date of Issue: 6/4/2020

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft ³)	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft ³)	Comp (%)	Comp Spec (%)	Results
13	03533297-1-S3	12	122.6	22.5	+2.3	0 to +3	100.1	95.6	≥95	A
14	03533297-1-S3	12	123.7	22.6	+2.4	0 to +3	100.9	96.4	≥95	A

Location

General Location: Sanitary trench Line A

Test No.	Location	Test Elev/Depth	Material/Layer
13	2+00	-5'	Backfill
14	2+00	-6'	Backfill

Comments

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Issue No: 1

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Field Density Test Report

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8335 KEYSTONE CROSSING,
SUITE 220
INDIANAPOLIS, IN 46240

CC: K ONEIL
M PATARINO
M WEBBER
T WATREAS

Project: 2ND & DOUGLAS APARTMENTS
LEE'S SUMMIT, MO

Approved Signatory: Muhammad Khan (Project Manager)
Date of Issue: 6/4/2020

Testing Details

Tested By: Gary Williams
Date Tested: 6/3/2020
Field Methods: ASTM D 6938
Gauge Type: Troxler
Model Number: 3430
Serial Number: 27206
Test Mode: Direct Transmission
Standard Count: Density: 1880
Standard Count: Moisture: 651

Proctor Information

Sample ID	Material	Method	MDD (lb/ft ³)	OWC (%)
03533297-1-S3 (SO)	Br fat clay w/sand & tr grvl	ASTM D 698 (A)	104.7	20.2

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft ³)	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft ³)	Comp (%)	Comp Spec (%)	Results
1	03533297-1-S3	8	123.7	22.8	+2.6	0 to +3	100.7	96.2	≥95	A
2	03533297-1-S3	8	124.2	23.0	+2.8	0 to +3	101.0	96.5	≥95	A
3	03533297-1-S3	8	125.7	22.3	+2.1	0 to +3	102.8	98.2	≥95	A
4	03533297-1-S3	8	125.4	22.3	+2.1	0 to +3	102.5	97.9	≥95	A
5	03533297-1-S3	8	123.2	21.1	+0.9	0 to +3	101.7	97.1	≥95	A
6	03533297-1-S3	8	124.4	22.7	+2.5	0 to +3	101.4	96.8	≥95	A

Location

General Location: Sanitary line A

Test No.	Location	Test Elev/Depth
1	Sta 2+50	-4'
2	Sta 2+50	-3'
3	Sta 2+50	-2'
4	Sta 3+00	-4'
5	Sta 3+00	-3'
6	Sta 3+00	-2'

Comments

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Report No: FDR:03533297-16

Issue No: 1

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8335 KEYSTONE CROSSING,
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CC: K ONEIL
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M WEBBER
T WATREAS

Project: 2ND & DOUGLAS APARTMENTS
LEE'S SUMMIT, MO

Approved Signatory: Muhammad Khan (Project Manager)
Date of Issue: 6/4/2020

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft ³)	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft ³)	Comp (%)	Comp Spec (%)	Results
7	03533297-1-S3	8	123.0	22.3	+2.1	0 to +3	100.6	96.1	≥95	A
8	03533297-1-S3	8	125.1	23.0	+2.8	0 to +3	101.7	97.1	≥95	A
9	03533297-1-S3	8	123.4	20.2	+0.0	0 to +3	102.7	98.1	≥95	A
10	03533297-1-S3	8	123.6	22.8	+2.6	0 to +3	100.7	96.2	≥95	A
11	03533297-1-S3	8	124.0	23.0	+2.8	0 to +3	100.8	96.3	≥95	A
12	03533297-1-S3	8	121.6	22.2	+2.0	0 to +3	99.5	95.0	≥95	A

Location

General Location: Sanitary line A

Test No.	Location	Test Elev/Depth
7	Sta 3+50	-4'
8	Sta 3+50	-3'
9	Sta 3+50	-2'
10	Sta 4+00	-4'
11	Sta 4+00	-3'
12	Sta 4+00	-2'

Comments

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CC: K ONEIL
M PATARINO
M WEBBER
T WATREAS

Project: 2ND & DOUGLAS APARTMENTS
LEE'S SUMMIT, MO

Approved Signatory: Muhammad Khan (Project Manager)
Date of Issue: 6/17/2020

Testing Details

Tested By: Gary Williams
Date Tested: 6/10/2020
Field Methods: ASTM D 6938
Gauge Type: Troxler
Model Number: 3430
Serial Number: 27206
Test Mode: Direct Transmission
Standard Count: Density: 1883
Standard Count: Moisture: 652

Proctor Information

Sample ID	Material	Method	MDD (lb/ft ³)	OWC (%)
03533297-1-S3 (SO)	Br fat clay w/sand & tr grvl	ASTM D 698 (A)	104.7	20.2

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft ³)	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft ³)	Comp (%)	Comp Spec (%)	Results
1	03533297-1-S3	8	124.6	21.5	+1.3	0 to +3	102.6	98.0	≥95	A
2	03533297-1-S3	8	122.8	23.0	+2.8	0 to +3	99.8	95.3	≥95	A
3	03533297-1-S3	8	125.5	22.4	+2.2	0 to +3	102.5	97.9	≥95	A
4	03533297-1-S3	8	123.6	21.1	+0.9	0 to +3	102.1	97.5	≥95	A
5	03533297-1-S3	8	123.6	23.0	+2.8	0 to +3	100.5	96.0	≥95	A
6	03533297-1-S3	8	122.1	22.6	+2.4	0 to +3	99.6	95.1	≥95	A

Location

General Location: Building 300/400 basement backfill

Test No.	Location	Test Elev/Depth
1	Northeast corner	-5'
2	Northwest corner	-5'
3	Southwest corner	-5'
4	Southeast corner	-5'

General Location: Sanitary line A

Test No.	Location	Test Elev/Depth
5	Sta 4+50	-4'
6	Sta 4+50	-3'

Comments

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Project: 2ND & DOUGLAS APARTMENTS
LEE'S SUMMIT, MO

Approved Signatory: Muhammad Khan (Project Manager)
Date of Issue: 6/17/2020

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft ³)	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft ³)	Comp (%)	Comp Spec (%)	Results
7	03533297-1-S3	8	123.3	21.0	+0.8	0 to +3	101.9	97.3	≥95	A
8	03533297-1-S3	8	124.2	22.1	+1.9	0 to +3	101.7	97.1	≥95	A
9	03533297-1-S3	8	122.8	21.2	+1.0	0 to +3	101.3	96.8	≥95	A
10	03533297-1-S3	8	122.1	21.0	+0.8	0 to +3	100.9	96.4	≥95	A

Location

General Location: Sanitary line A

Test No.	Location	Test Elev/Depth
7	Sta 4+50	-2'

General Location: Sanitary line B

Test No.	Location	Test Elev/Depth
8	Sta 4+85	-4'
9	Sta 4+85	-3'
10	Sta 4+85	-2'

Comments

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Phone: (913) 310-1600
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Report No: FDR:03533297-25

Issue No: 1

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Approved Signatory: Muhammad Khan (Project Manager)
Date of Issue: 6/17/2020

Testing Details

Tested By: Gary Williams
Date Tested: 6/15/2020
Field Methods: ASTM D 6938
Gauge Type: Troxler
Model Number: 3430
Serial Number: 27206
Test Mode: Direct Transmission
Standard Count: Density: 1880
Standard Count: Moisture: 653

Proctor Information

Sample ID	Material	Method	MDD (lb/ft ³)	OWC (%)
03533297-1-S3 (SO)	Br fat clay w/sand & tr grvl	ASTM D 698 (A)	104.7	20.2

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft ³)	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft ³)	Comp (%)	Comp Spec (%)	Results
1	03533297-1-S3	8	127.5	23.0	+2.8	0 to +3	103.7	99.0	≥95	A
2	03533297-1-S3	8	124.9	20.9	+0.7	0 to +3	103.3	98.7	≥95	A
3	03533297-1-S3	8	121.4	21.2	+1.0	0 to +3	100.2	95.7	≥95	A
4	03533297-1-S3	8	125.7	22.9	+2.7	0 to +3	102.3	97.7	≥95	A
5	03533297-1-S3	8	122.9	22.1	+1.9	0 to +3	100.7	96.2	≥95	A
6	03533297-1-S3	8	122.8	21.0	+0.8	0 to +3	101.5	96.9	≥95	A

Location

General Location: Sanitary sewer Line A

Test No.	Location	Test Elev/Depth
1	Sta 6+30	-4'
2	Sta 6+20	-3'
3	Sta 6+40	-2'
4	Sta 06+00	-4'
5	Sta 05+80	-3'
6	Sta 05+50	-2'

Comments

(SO) = Sampled By Others

Legend

OWC = Optimum Water Content
MDD = Maximum Dry Density
A = TEST RESULTS COMPLY WITH SPECIFICATION



Professional Service Industries, Inc.
1211 W. Cambridge Circle Drive
Kansas City, KS 66103

Phone: (913) 310-1600
Fax: (913) 310-1601

Report No: FDR:03533297-25

Issue No: 1

Field Density Test Report

These test results apply only to the specific locations and materials noted and may not represent any other locations or elevations. This report may not be reproduced, except in full, without written permission by Professional Service Industries, Inc. If a non-compliance appears on this report, to the extent that the reported non-compliance impacts the project, the resolution is outside the PSI scope of engagement.

Approved Signatory: Muhammad Khan (Project Manager)
Date of Issue: 6/17/2020

Client: CITYSCAPE RESIDENTIAL
8335 KEYSTONE CROSSING,
SUITE 220
INDIANAPOLIS, IN 46240

CC: K ONEIL
M PATARINO
M WEBBER
T WATREAS

Project: 2ND & DOUGLAS APARTMENTS
LEE'S SUMMIT, MO

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft ³)	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft ³)	Comp (%)	Comp Spec (%)	Results
7	03533297-1-S3	8	122.5	21.0	+0.8	0 to +3	101.2	96.7	≥95	A
8	03533297-1-S3	8	121.6	22.1	+1.9	0 to +3	99.6	95.1	≥95	A
9	03533297-1-S3	8	121.0	20.5	+0.3	0 to +3	100.4	95.9	≥95	A

Location

General Location: Sanitary sewer Line A

Test No.	Location	Test Elev/Depth
7	Sta 05+40	-4'
8	Sta 05+20	-3'
9	Sta 4+90	-2'

Comments

(SO) = Sampled By Others

Legend

OWC = Optimum Water Content
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Professional Service Industries, Inc.
1211 W. Cambridge Circle Drive
Kansas City, KS 66103

Phone: (913) 310-1600
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Report No: FDR:03533297-45

Issue No: 1

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Field Density Test Report

Client: CITYSCAPE RESIDENTIAL
8335 KEYSTONE CROSSING,
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INDIANAPOLIS, IN 46240

CC: K ONEIL
M PATARINO
M WEBBER
T WATREAS

Project: 2ND & DOUGLAS APARTMENTS
LEE'S SUMMIT, MO

Approved Signatory: Muhammad Khan (Project Manager)
Date of Issue: 8/7/2020

Testing Details

Tested By: Gary Williams
Date Tested: 8/4/2020
Field Methods: ASTM D 6938
Gauge Type: Troxler
Model Number: 3430
Serial Number: 27206
Test Mode: Direct Transmission
Standard Count: Density: 1873
Standard Count: Moisture: 650

Proctor Information

Sample ID	Material	Method	MDD (lb/ft ³)	OWC (%)
03533297-1-S3 (SO)	Br fat clay w/sand & tr grvl	ASTM D 698 (A)	104.7	20.2

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft ³)	Water Content (%)	OWC Var (%)	OWC Var Spec (%)	Dry Density (lb/ft ³)	Comp (%)	Comp Spec (%)	Results
1	03533297-1-S3	8	124.8	21.6	+1.4	0 to +3	102.6	98.0	≥95	A
2	03533297-1-S3	8	123.7	22.3	+2.1	0 to +3	101.1	96.6	≥95	A
3	03533297-1-S3	8	123.0	21.0	+0.8	0 to +3	101.7	97.1	≥95	A

Location

General Location: Manhole A1

Test No.	Location	Test Elev/Depth
1	6' west	-4'
2	6' west	-3'
3	6' west	2'

Comments

(SO) = Sampled By Others

Legend

OWC = Optimum Water Content
MDD = Maximum Dry Density
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