Report By:

National TAB
1329 E. KEMPER ROAD
SUITE 4210
CINCINNATI, OH 45246

Report: TAB

Function: Test, Adjust, & Balance

Date: 10/07/2025

Completed By: National TAB

PROJECT

10-06-25 CHIPOTLE #5669 SPRINGFIELD, MO (SUNSHINE ST)

2456 E SUNSHINE ST

SPRINGFIELD, MO 65804

Client

Chipotle Mexican Grill

610 Newport Center Drive, Suite 1100

Newport Beach, CA 92660

National TAB

Project: 10-06-25 CHIPOTLE #5669 SPRINGFIELD, MO (SUNSHINE ST)

Table Of Contents

Project Summary

The summary below provides a quick understanding of our scope of work and general testing procedures. Enclosed in the report is further detail about your building performance including recommendations, asset data, and pictures. Our focus is to work with the trades to remedy any issues or deficiencies during the actual field balancing and not after the balancing has occurred to achieve a positive environment and outcome. The level of success is determined by the availability of the trades, possible parts needed, or time constraints.

RTU's (Roof Top Units) w/ Diffusers
Each of the RTU's were measured at their terminal devices or via traverse to establish a total flow for that unit. Each RTU was adjusted to within tolerance of the engineer's design flow. Each outlet was then adjusted to within tolerance of the design flow. Outside air was measured by reading the intake air opening with a velocity grid and multiplying by the free area. The outside air damper was adjusted until the airflow was within the design requirements. Any equipment that fell outside of that tolerance is noted throughout the report.

Kitchen Exhaust Hood & Associated Fans
Each kitchen exhaust fan was measured at the hood filter bay utilizing a velocity matrix and a manufacturer's correction factor. Each filter velocity is multiplied by the manufacturer's corrected area. The sum of these readings equals the total flow of the exhaust fans. The total flow of the exhaust was then adjusted to within tolerance of the design flow. . Any EF's that fell outside of this tolerance is noted throughout the report.

MUA (Make Up Air Unit) w/ PSP
Total flow for the MAU (Make-up Air Unit) unit was measured by readings taken at the discharge of the hood's perforated supply plenum. Readings taken with a velocity matrix were averaged and multiplied by a manufacturer's corrected area. Adjustments to the fan speed were made in order to bring the unit to within design tolerance. Any MUA's that fell outside of this tolerance is noted throughout the report.

General Exhaust Fans w/ Grilles
The general exhaust fans were measured by reading each air device with a flow hood. The total airflow for each fan is equivalent to the sum of these readings. Fan speed was then adjusted so that the airflow was within tolerance of design. Each terminal device was balanced to within tolerance of the design volume using the installed volume dampers. Any equipment that fell outside of this tolerance is noted throughout the report.

Final Building Tests
After completing the test and balance the final building pressure was measured. It was confirmed that the building pressure fell within acceptable tolerances of -0.02" wc to +0.02" wc and that the pressure measurement coincides with the actual and design net airflow. Any deviations from these standards are noted throughout the report.
The hood capture was tested at the perimeter of the hood and the cook top level with the equipment heat on to ensure satisfactory hood capture and containment.

NATIONAL TAB

AIR BALANCE SCHEDULE

UNIT	AREA SERVED	HVAC SUPPLY		HVAC RETURN		HVAC OUTDOOR		OA %		HOOD MAKE-UP		HOOD EXHAUST		GENERAL EXH.	
		DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
RTU-1	KITCHEN	4000	4056	3250	3292	750	764	18.8%	18.8%						
RTU-2	DINING	4000	4078	3250	3336	750	742	18.8%	18.2%						
MUA-1	KITCHEN HD									1300	1214				
EF-1	KITCHEN HD											2550	2618		
EF-2	RESTROOM													150	143
TOTALS		8000	8134	6500	6628	1500	1506			1300	1214	2550	2618	150	143

NET BUILDING AIRFLOW CALCULATION

TOTALS	DESIGN	ACTUAL
TOTAL OA	2800	2720
TOTAL EXHAUST	2700	2761
NET AIRFLOW	100	-41

DOOR TESTED	BUILDING PRESSURE MEASUREMENTS (IN. H20)
FRONT	-0.0033
SIDE	-0.0016
REAR	-0.0013
AVERAGE	**-0.0021**

FINAL CHECKS

ACTUAL NET AIRFLOW COINCIDES WITH DESIGN: ✗

MEASURED PRESSURES COINCIDES WITH ACTUAL NET AIRFLOW: ✓

PRESSURE FALLS WITHIN IMC TOLERANCE OF +/-0.02" W.C. ✓

NOTES:

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CheckList List

- 01: RTU'S/AHU'S
- 02: EF'S
- 03: MUA
- 04: HOODS
- 05: FINAL TESTS
- PLAN REVIEW

10-06-25 CHIPOTLE #5669 SPRINGFIELD, MO (SUNSHINE ST)

CheckList Information

Name :	01: RTU'S/AHU'S	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/29/2025 - Natasha Louw - National TAB		

CheckList Item Details

RTU's/AHU's

Thermostats installed and have power?	Yes
Comment:	
All diffusers and grilles are installed and match design?	Yes
Comment:	
Deflector plates are removed from 1x1 diffusers on the serve line (double check that this is specified on the diffuser schedule first)	N/A
Comment:	
Economizer blank plate is installed below the ouside air intake (Trane only) (N/A = not applicable)	N/A
Comment:	
Economizers are assembled and functional?	Yes
Comment:	
DCV Max damper opening position is set to minimum?	Yes
Comment:	
Free cooling enthalpy set point set for lowest setting (Typically "D")	Yes

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Comment:	
Motors are all operating below the FLA rating?	Yes
Comment:	
Are belts tight?	N/A
Comment:	
If direct drive unit is the speed controller working?	Yes
Comment:	
Is gas piping installed and valves turned on?	Yes
Comment:	
Unit free of noticeable noise and vibration	Yes
Comment:	
Final outside air damper position is marked with permanent marker?	Yes
Comment:	

10-06-25 CHIPOTLE #5669 SPRINGFIELD, MO (SUNSHINE ST)

CheckList Information

Name :	02: EF'S	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/29/2025 - Natasha Louw - National TAB		

CheckList Item Details

EF's

Rotation is correct?	Yes
Comment:	
Belts are tight?	N/A
Comment:	
Viroguard installed on hood fan(s)?	Yes
Comment:	
Hinge kit installed installed on hood fan?	Yes
Comment:	
Lean fan back. Is grease duct installation adequate and is duct ran all the way to the base of the fan?	Yes
Comment:	
Flex conduit is long enough so that fan can be completely tilted back?	Yes
Comment:	
There is no major leakage around base of fan?	Yes

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Comment:	
Is the motor operating below the motor FLA rating?	Yes
Comment:	
For restroom fan(s) is the back draft damper installed and can it fully open?	N/A
Comment: -COULD NOT ACCESS TO VERIFY.	
Unit free of noticeable noise and vibration?	Yes
Comment:	

10-06-25 CHIPOTLE #5669 SPRINGFIELD, MO (SUNSHINE ST)

CheckList Information

Name :	03: MUA	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/29/2025 - Natasha Louw - National TAB		

CheckList Item Details

MUA

Rotation is correct?	Yes
Comment:	
Gas piping is installed and valves are in on position?	Yes
Comment:	
Internal motorized damper is fully opening?	Yes
Comment:	
Motor is operating below the FLA rating?	Yes
Comment:	
Unit free of noticeable noise and vibration?	Yes
Comment:	

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10-06-25 CHIPOTLE #5669 SPRINGFIELD, MO (SUNSHINE ST)

CheckList Information

Name :	04: HOODS	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/29/2025 - Natasha Louw - National TAB		

CheckList Item Details

HOODS

All hood filters installed and accounted for?	Yes
Comment:	
Hoods are wired and have power?	Yes
Comment:	
Hood is free of alarms?	Yes
Comment:	
Hood is free of damage?	Yes
Comment:	
Quarter or full vertical end panels are installed if specified?	Yes
Comment:	

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10-06-25 CHIPOTLE #5669 SPRINGFIELD, MO (SUNSHINE ST)

CheckList Information

Name :	05: FINAL TESTS	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/29/2025 - Natasha Louw - National TAB		

CheckList Item Details

FINAL CHECKS	
Is space free of drafting?	Yes
Comment:	
Is space comfortable in all areas?	Yes
Comment:	
Is the space free of ventilation noise?	Yes
Comment:	
List kitchen equipment turned on for testing	
Comment:	
EF1 MUA1	
List smoke candle type used	
Comment:	
S102	
HOOD CAPTURE TEST	
Smoke test capture % - Perimeter of hood	

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Comment:

100% SMOKE CAPTURE

Smoke test capture % - Top of cooking surface

Comment:

100% SMOKE CAPTURE

WITNESS

Date test was completed	10/07/2025

Comment:

TAB tech name / Firm

Comment:

KALEN KEMP / NATIONAL TAB

Site super name / Firm

Comment:

RANDY RENTROP / STANSELL CONSTRUCTION

Owner representative name / Firm (if Applicable)

Comment:

BUILDING PRESSURE

Do actual net building airflow, design net building airflow, and pressure coincide? If not why? (All three should either be positive or negative)	Pass

Comment:

10-06-25 CHIPOTLE #5669 SPRINGFIELD, MO (SUNSHINE ST)

CheckList Information

Name :	PLAN REVIEW	**Status :**	Not Completed
Assigned Organization :	National TAB	**Asset :**	
Requesting Organization :	National TAB		
Created Date :	08/29/2025 - Natasha Louw - National TAB		

CheckList Item Details

Asset Requirements	
We have the latest set of construction drawings and are not working off the Bid or Permit Set:	No
Comment:	
Diffuser totals equal the scheduled airflow of each piece of equipment	Yes
Comment:	
Scheduled Hood airflow match scheduled EF and MAU airflows	Yes
Comment:	
Files to Upload	
A PDF summary is uploaded and matches the equipment/scope of the project	Yes
Comment:	
Balance schedule is uploaded?	Yes
Comment:	
Required account checklists are created	Yes
Comment:	

Mechanical drawings are uploaded	Yes
Comment:	
If job is a Revive, Pre-design, or Remodel. Check if we have an old report on sharepoint or the old FaciliBuild and upload to files section.	N/A
Comment:	
GRD Layout is uploaded	Yes
Comment:	
Jurisdiction Requirements	
Is job in Orlando, FL metro area or Phoenix metro area? If yes, a smoke detector checklist needs to be created for each RTU or AHU	No
Comment:	
Is job in Broward County, FL? If so, is Broward County on the permit (Ask the GC)? If Broward County is on the permit, then we CANNOT perform the balance.	No
Comment:	

National TAB

Project: 10-06-25 CHIPOTLE #5669 SPRINGFIELD, MO (SUNSHINE ST)

System/Unit: AHU/RTU

Asset: RTU1 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	CARRIER	CARRIER
Serial Num	-	0424P63060
Model Num	48FCFN12	48FCFN12D3M5A6W4F0
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	19.5X35”
Num Final Filter 1	-	4
Final Filter Size 1	-	20X20X2”
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	NA
Frame	-	NA
Horsepower	-	NA
Motor Rpm	-	NA
Phase	3	3
Rated Voltage	208	208/230
Rated Amperage	-	12.6

Drive Data	
	Actual
Motor Sheave Size	DD
Motor Bore Size	DD
Motor Sheave SetPt	DD
Fan Sheave Size	DD
Fan Sheave Bore	DD
Belt CL Distance	DD
Num of Belts	DD
Belt Size	DD
Belt Alignment	DD

Test Data		
	Design	**Actual**
SF CFM	4000	4056
SF RPM	-	NA
RA CFM	3250	3292
OA CFM	750	764
RL Voltage	-	213
RL Amperage	-	5.94
SF Rotation	-	COUNTERCLOCKWISE
SF System SetPt	-	8.44 VDC
RA Damper Position	-	NA
Min OA Damper Position	-	0.5” OPEN (3.75 V)
Min OA Damper Type	-	ECON
OA Enthalpy Setpt	-	ES3

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.70”
Fan Suction SP	-	-1.17”
Fan Discharge SP	-	0.20”
Total ESP	0.8"	0.90”
Fan Total SP	-	1.37”

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

Completed By: Kalen Kemp on 10/07/2025

Notes:
-DISCHARGE PRESSURE TAKEN IN SUPPLY DUCT AFTER ELBOW.

Written By: Kalen Kemp on 10/07/2025

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Unit Data - PHOTO LOG

10/07/2025

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Project: 10-06-25 CHIPOTLE #5669 SPRINGFIELD, MO (SUNSHINE ST)

System/Unit: AHU/RTU

Asset: RTU2 AREA:DINING

Unit Data		
	Design	**Actual**
MFG	CARRIER	CARRIER
Serial Num	-	0524P63626
Model Num	48FCFN12	48FCFN12D3M5A6W4F0
Type	RTU	RTU
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	1
OA Filter Size 1	-	19X34.5”
Num Final Filter 1	-	4
Final Filter Size 1	-	20X20X2”
Num Final Filter 2	-	
Final Filter Size 2	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	NA
Frame	-	NA
Horsepower	-	NA
Motor Rpm	-	NA
Phase	3	3
Rated Voltage	208	208/230
Rated Amperage	-	12.6

Drive Data	
	Actual
Motor Sheave Size	DD
Motor Bore Size	DD
Motor Sheave SetPt	DD
Fan Sheave Size	DD
Fan Sheave Bore	DD
Belt CL Distance	DD
Num of Belts	DD
Belt Size	DD
Belt Alignment	DD

Test Data		
	Design	**Actual**
SF CFM	4000	4078
SF RPM	-	NA
RA CFM	3250	3336
OA CFM	750	742
RL Voltage	-	212
RL Amperage	-	5.31
SF Rotation	-	COUNTERCLOCKWISE
SF System SetPt	-	8.17 VDC
RA Damper Position	-	NA
Min OA Damper Position	-	0.5” OPEN
Min OA Damper Type	-	ECON
OA Enthalpy Setpt	-	ES3

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-1.06”
Fan Suction SP	-	-1.42”
Fan Discharge SP	-	0.64”
Total ESP	0.8"	1.70”
Fan Total SP	-	2.06”

General	
	Actual
Fan Rotation Correct	YES
Unit Filters Clean	YES
Condensate Drain Installed	YES

Completed By: Kalen Kemp on 10/07/2025

Notes:
-DISCONNECT SWITCH IS BROKEN. POWER BYPASSED FOR UNIT TO RUN.

Written By: Kalen Kemp on 10/07/2025

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Unit Data - PHOTO LOG

10/07/2025

National TAB

Project: 10-06-25 CHIPOTLE #5669 SPRINGFIELD, MO (SUNSHINE ST)

System/Unit: FAN - Exhaust

Asset: EF1 AREA:KITCHEN HD

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	ACCUREX
Model Num	DU180HFA	XCUE-160-20-VG-1-26-G
Serial Num	-	27306911 25H
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	145T
Horsepower	2	2.0
Motor Rpm	-	4000
Phase	3	1
Voltage (rated)	208	230
Amperage (rated)	-	4.8
Service Factor	-	1.0

Test Data		
	Design	**Actual**
CFM	2550	2618
Fan RPM	-	3080
Fan Rotation	-	COUNTERCLOCKWISE
Motor RPM	-	3080
System SetPt	-	7.7 VDC
RL Voltage	-	211
RL Amperage	-	5.64
Total ESP	1.20"	1.04”
Fan Inlet SP	-	-1.04”
Fan Discharge SP	-	ATM

Completed By: Kalen Kemp on 10/07/2025

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Unit Data - PHOTO LOG

10/07/2025

National TAB

Project: 10-06-25 CHIPOTLE #5669 SPRINGFIELD, MO (SUNSHINE ST)

System/Unit: FAN - Exhaust

Asset: EF2 AREA:RESTROOMS

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	ACCUREX
Model Num	DR12HFA	XRED-097-4-VG-1-19-X
Serial Num	-	27306910 25G
Type	DOWNBLAST	DOWNBLAST
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	BROAD-OCEAN
Frame	-	NL
Horsepower	0.25	0.25
Motor Rpm	-	1750
Phase	1	1
Voltage (rated)	120	115/208
Amperage (rated)	-	2.85
Service Factor	-	1.25

Test Data		
	Design	**Actual**
CFM	150	143
Fan RPM	-	NA
Fan Rotation	-	COUNTERCLOCKWISE
Motor RPM	-	NA
System SetPt	-	10.0 VDC
RL Voltage	-	124
RL Amperage	-	1.67
Total ESP	0.60"	0.16”
Fan Inlet SP	-	0.16”
Fan Discharge SP	-	ATM

Completed By: Kalen Kemp on 10/07/2025

Notes:
-COULD NOT ACCESS FAN INLET. SP READING FROM DUCT DROP.

Written By: Kalen Kemp on 10/20/2025

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Unit Data - PHOTO LOG

10/07/2025

National TAB

Project: 10-06-25 CHIPOTLE #5669 SPRINGFIELD, MO (SUNSHINE ST)

System/Unit: FAN - Supply

Asset: MAU1 AREA:KITCHEN HD

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	ACCUREX
Model Num	A1-15D-MPU	XDGX-P115-H05-VG
Serial Num	-	27310820
Type	MAU	MAU
Configuration	VERTICAL	VERTICAL

Motor Data		
	Design	**Actual**
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	1.0
Motor Rpm	-	NL
Phase	3	1
Voltage (rated)	208	115
Amperage (rated)	-	11.5
Service Factor	-	NL

Gas Heat		
	Design	**Actual**
Heater Operates (y/n)	-	YES
Flame Status (pass/fail)	-	PASS
Inlet Air Temp SetPt	55	55
Discharge Air Temp SetPt	60	60
Air Flow Switch SP Actual	-	0.47”

Test Data		
	Design	**Actual**
CFM	1300	1214
SF RPM	-	NA
Motor RPM	-	NA
SF System SetPt	-	6.9 VDC
RL Voltage	-	121
RL Amperage	-	3.30
Total ESP	-	0.47”
Fan Discharge SP	-	0.47”

General	
	Actual
Fan Rotation Correct	YES

Completed By: Kalen Kemp on 10/07/2025

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Unit Data - PHOTO LOG

10/07/2025

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Project: 10-06-25 CHIPOTLE #5669 SPRINGFIELD, MO (SUNSHINE ST)

System/Unit: Kitchen Hood Type I

Asset: HD1 AREA:KITCHEN

Unit Data		
	Design	**Actual**
MFG	CAPTIVE-AIRE	ACCUREX
Model Num	5424 ND-2-ACPSP-F	CXEW-153.00-S
Job / Serial Num	-	27314241
Type	TYPE 1 CANOPY	TYPE I - CANOPY
Hood length	153"	153”
Hood Width	51"	54”
Supply Plenum Type	-	ACPSP
Supply Plenum Width	9"	14”
Supply Plenum Length	165"	

Test Data Exhaust		
	Design	**Actual**
Filter Type	-	X-TRACTOR
Filter Size 1	-	20X20”
Filter Size 2	-	16X20”
Filter Qty 1	-	6
Filter Qty 2	-	2
Filter AK factor size 1	-	3.00
Filters AK factor size 2	-	2.00
Filter Total AK Area	-	22.00
Filter1 FPM	-	72
Filter2 FPM	-	113
Filter3 FPM	-	130
Filter4 FPM	-	146
Filter5 FPM	-	151
Filter6 FPM	-	131
Filter7 FPM	-	113
Filter8 FPM	-	100
Filter Ave FPM(corr)	-	120
CFM	2550	2640

Cooking Equipment	
	Actual
Item 1	GRIDDLE
Item 2	RANGE
Item 3	RICE COOKER
Item 4	FRYER
Item 5	

Test Data Supply		
	Design	**Actual**
Total Area	10.31	16.04
Kv factor (Vel)	0.81	0.89
Num of Readings	-	12
Reading1 FPM	-	68
Reading2 FPM	-	91
Reading3 FPM	-	65
Reading4 FPM	-	98
Reading5 FPM	-	79
Reading6 FPM	-	92
Reading7 FPM	-	108
Reading8 FPM	-	77
Reading9 FPM	-	82
Reading10 FPM	-	113
Reading11 FPM	-	94
Reading12 FPM	-	53
Ave FPM(corr)	-	85
CFM	1300	1214

Completed By: Kalen Kemp on 10/07/2025

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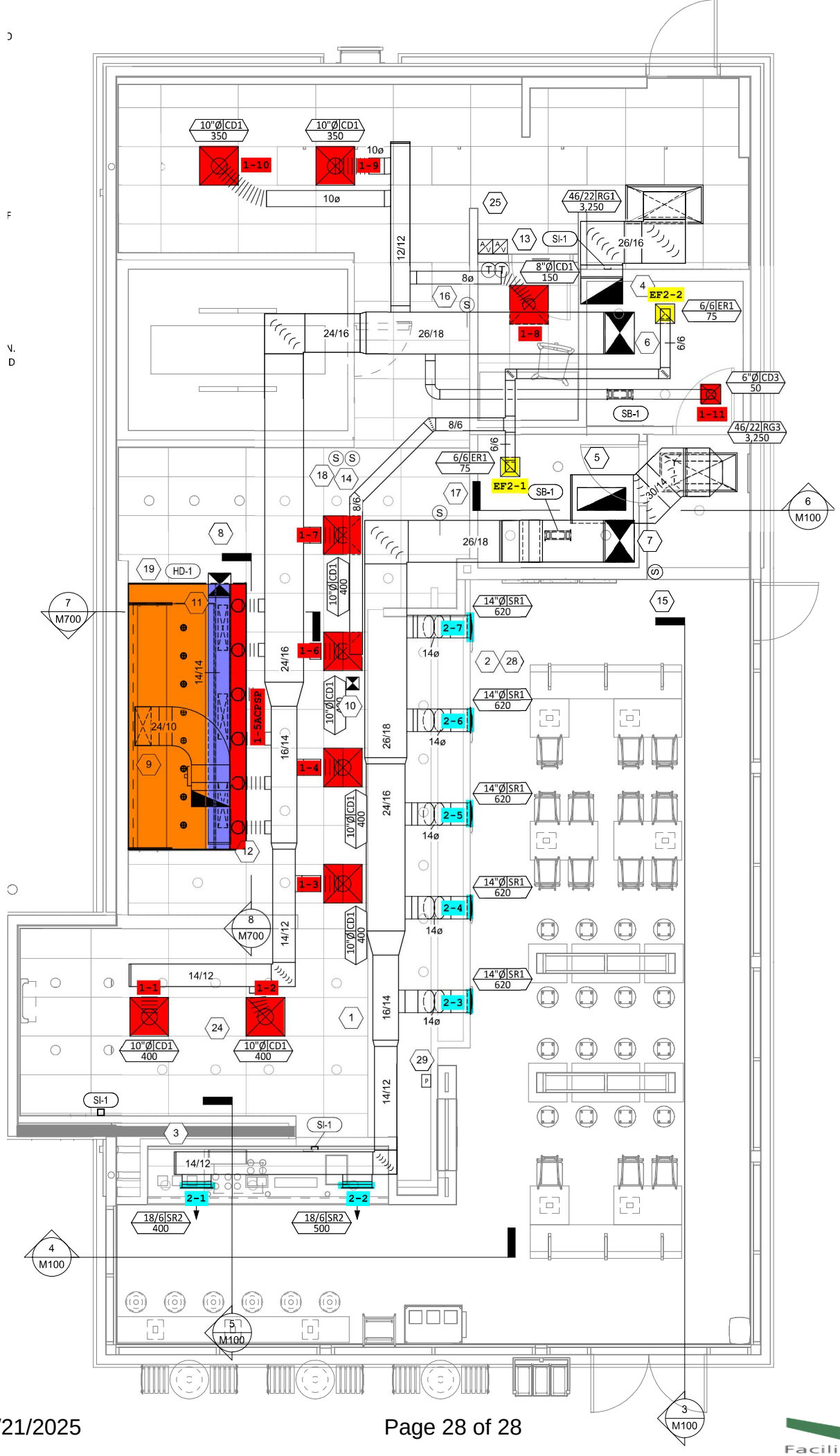
Unit Data - PHOTO LOG

10/07/2025


10"Ø CD1 350
1-10
10"Ø CD1 350
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25
46/22 RG1 3,250
26/16
13
SI-1
8"Ø CD1 150
1-8
4
EF2-2
6/6 ER1 75
6
6/6
6"Ø CD3 50
1-11
SB-1
46/22 RG3 3,250
8/6
6/6 ER1 75
EF2-1
SB-1
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M100
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M700
8
19
HD-1
11
1-7
10"Ø CD1 400
1-6
1-5ACPSP
1-4
1-3
1-2
1-1
10"Ø CD1 400
10"Ø CD1 400
24/10
14/14
16/14
14/12
9
10
12
24
1
29
15
14"Ø SR1 620
2-7
2-6
2-5
2-4
2-3
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28
8
M700
SI-1
3
2-1
2-2
18/6 SR2 400
18/6 SR2 500
4
M100
5
M100
3
M100