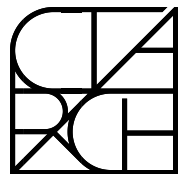




MIDDLE COLLEGIATE CHURCH~1966



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New York, New York 10001-6810
Tel: 212.243.7404 info@ctaarchitects.com

NYC LANDMARKS PRESERVATION COMMISSION - PUBLIC HEARING
MIDDLE COLLEGIATE CHURCH

Project Address: 50 EAST 7TH STREET, NEW YORK, NEW YORK 10003

23203

SK-01

15 DEC 2023

SCOPE OF WORK:

1. INSTALLATION OF RTU ON 4TH FLOOR ROOF.



OVERVIEW OF MIDDLE COLLEGIATE CHURCH FACADE, MAIN ENTRANCE (2017)

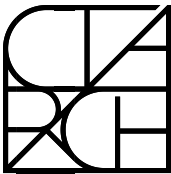
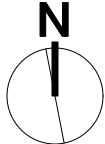


OVERVIEW OF MIDDLE COLLEGIATE CHURCH FACADE, MAIN ENTRANCE (2023)



50 EAST - 7TH STREET, NEW YORK
MIDDLE COLLEGIATE CHURCH
BLOCK 448, LOT 5

1 AERIAL OVERVIEW
NOT TO SCALE



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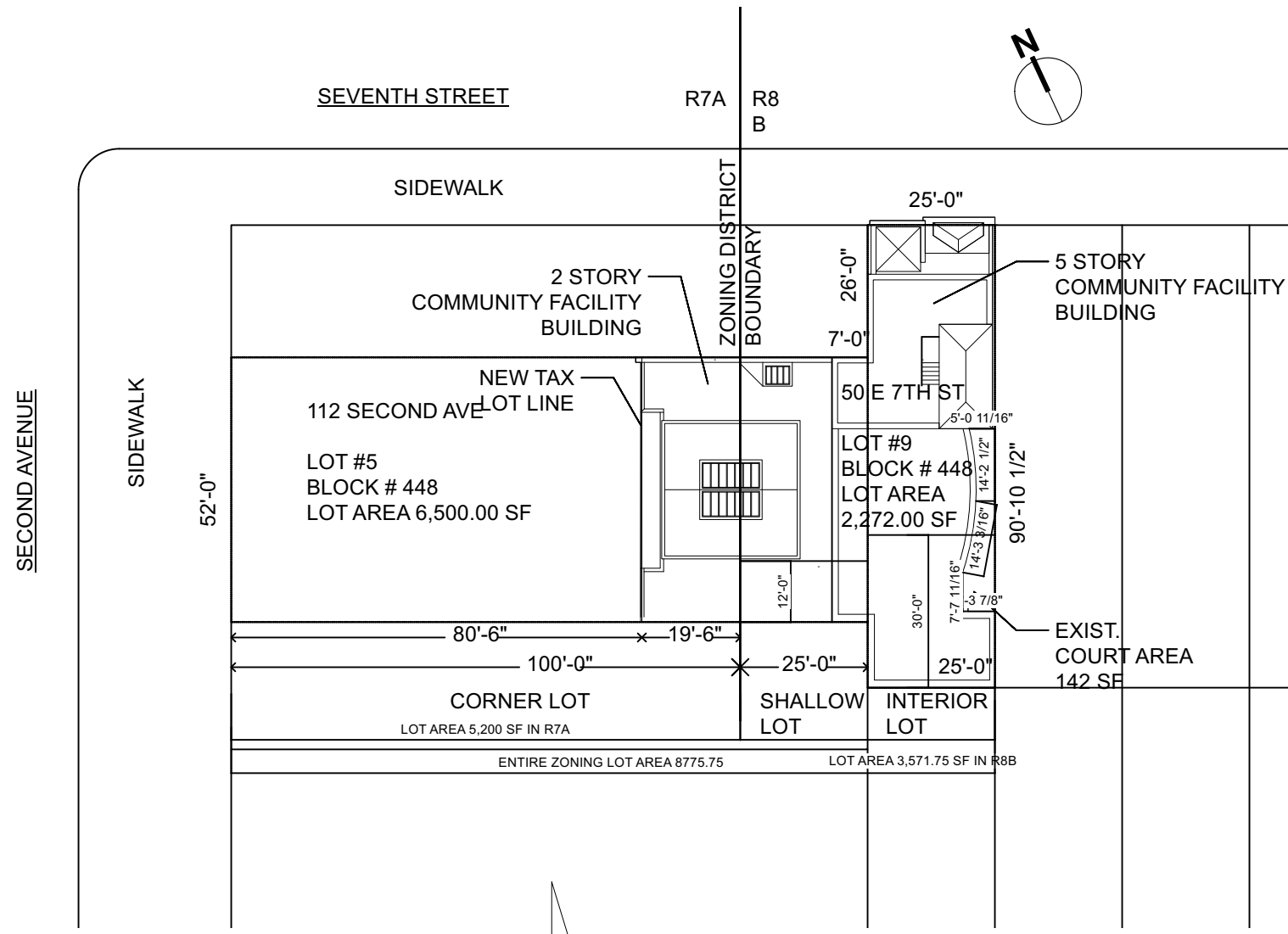
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SK-02

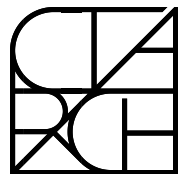
15 DEC 2023

SITE PLAN



OVERVIEW OF EXISTING BUILDING.

2 SITE PLAN
NOT TO SCALE



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SK-03

15 DEC 2023

PRE-CLAD CONDITION (2017) AT 3RD FLOOR ROOF



OVERVIEW OF 3RD FLOOR ROOF / EXTERIOR CIRCA 2017



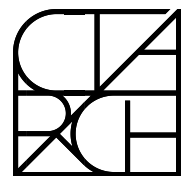
OVERVIEW OF 3RD FLOOR ROOF / EXTERIOR CIRCA 2017



OVERVIEW OF 3RD FLOOR ROOF / EXTERIOR CIRCA 2017



OVERVIEW CLERESTORY / INTERIOR CIRCA 2017



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SK-04

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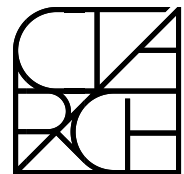
EXISTING PHOTOGRAPHS



OVERVIEW OF WEST ELEVATION



OVERVIEW OF WEST ELEVATION



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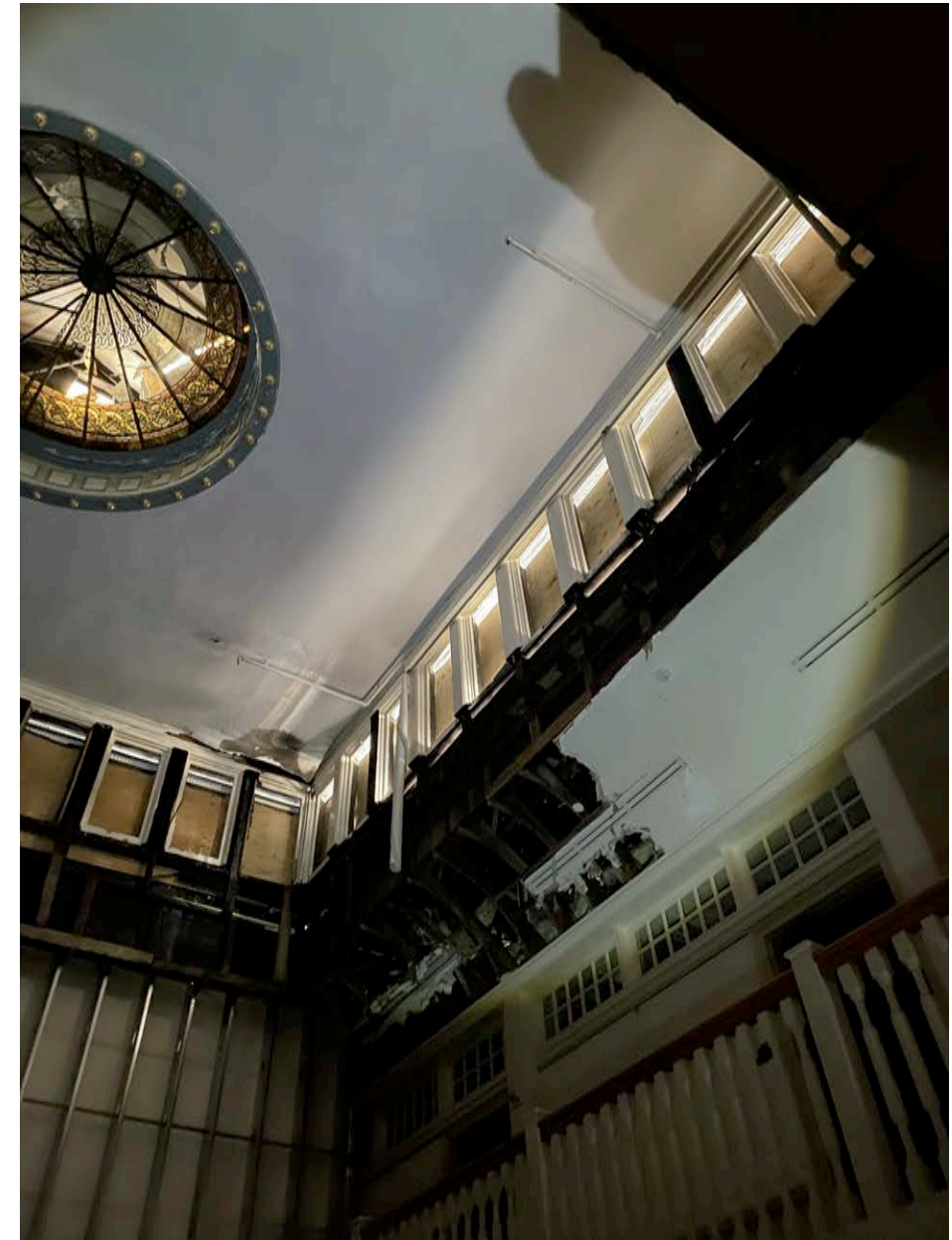
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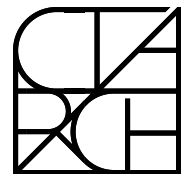
EXISTING PHOTOGRAPHS



OVERVIEW OF EXISTING SKYLIGHT



OVERVIEW EXISTING CLERESTORY / INTERIOR



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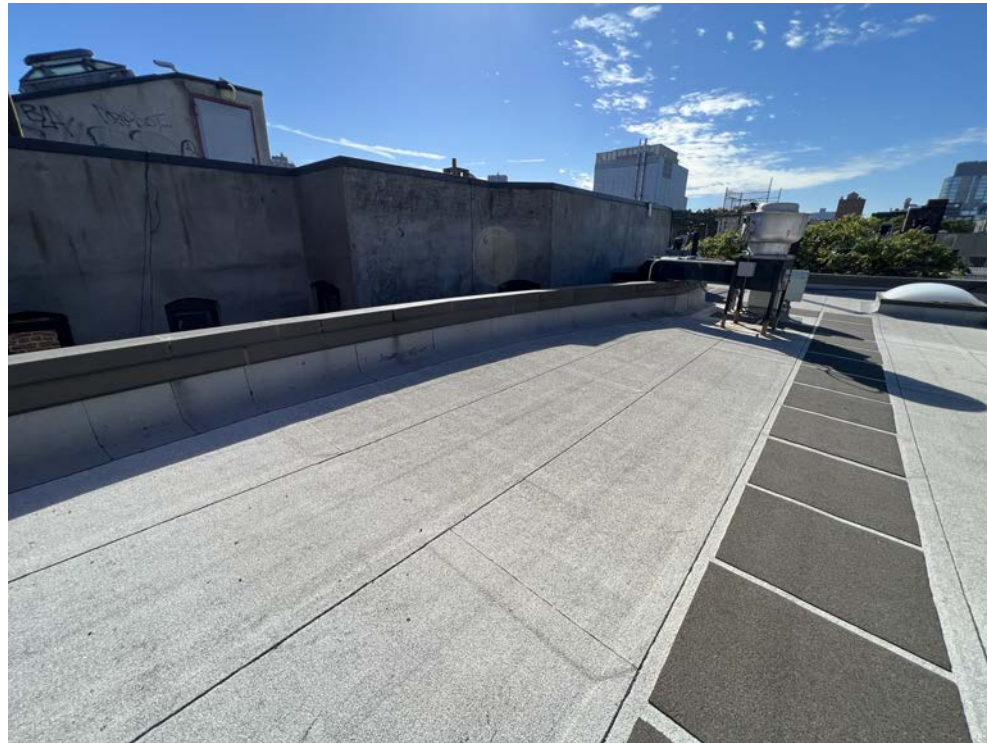
SK-06

15 DEC 2023

EXISTING CONDITION AT 5TH FLOOR ROOF



OVERVIEW OF 5TH FLOOR ROOF



OVERVIEW OF 5TH FLOOR ROOF



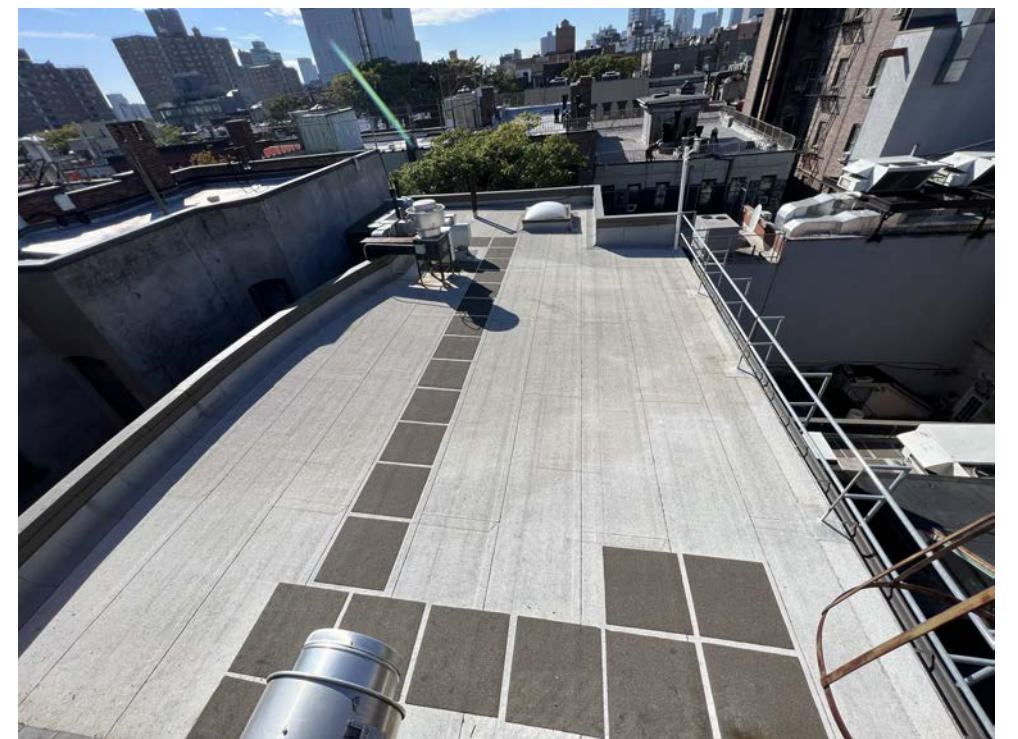
OVERVIEW OF 5TH FLOOR ROOF



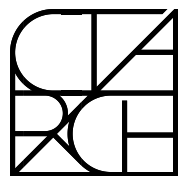
OVERVIEW OF 5TH FLOOR ROOF



VIEW OF 3RD FLOOR / ROOF BELOW



OVERVIEW OF 5TH FLOOR ROOF



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SK-07

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EXISTING CONDITION AT 3RD FLOOR ROOF



EXTERIOR / EXISTING CLERESTORY WINDOWS



INTERIOR / EXISTING CLERESTORY WINDOWS



EXISTING EXTERIOR CLERESTORY WINDOWS SIDING



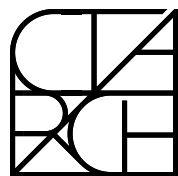
EXISTING CLERESTORY WINDOW CONDITION



EXISTING SKYLIGHT



EXISTING SKYLIGHT



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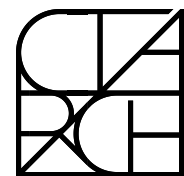
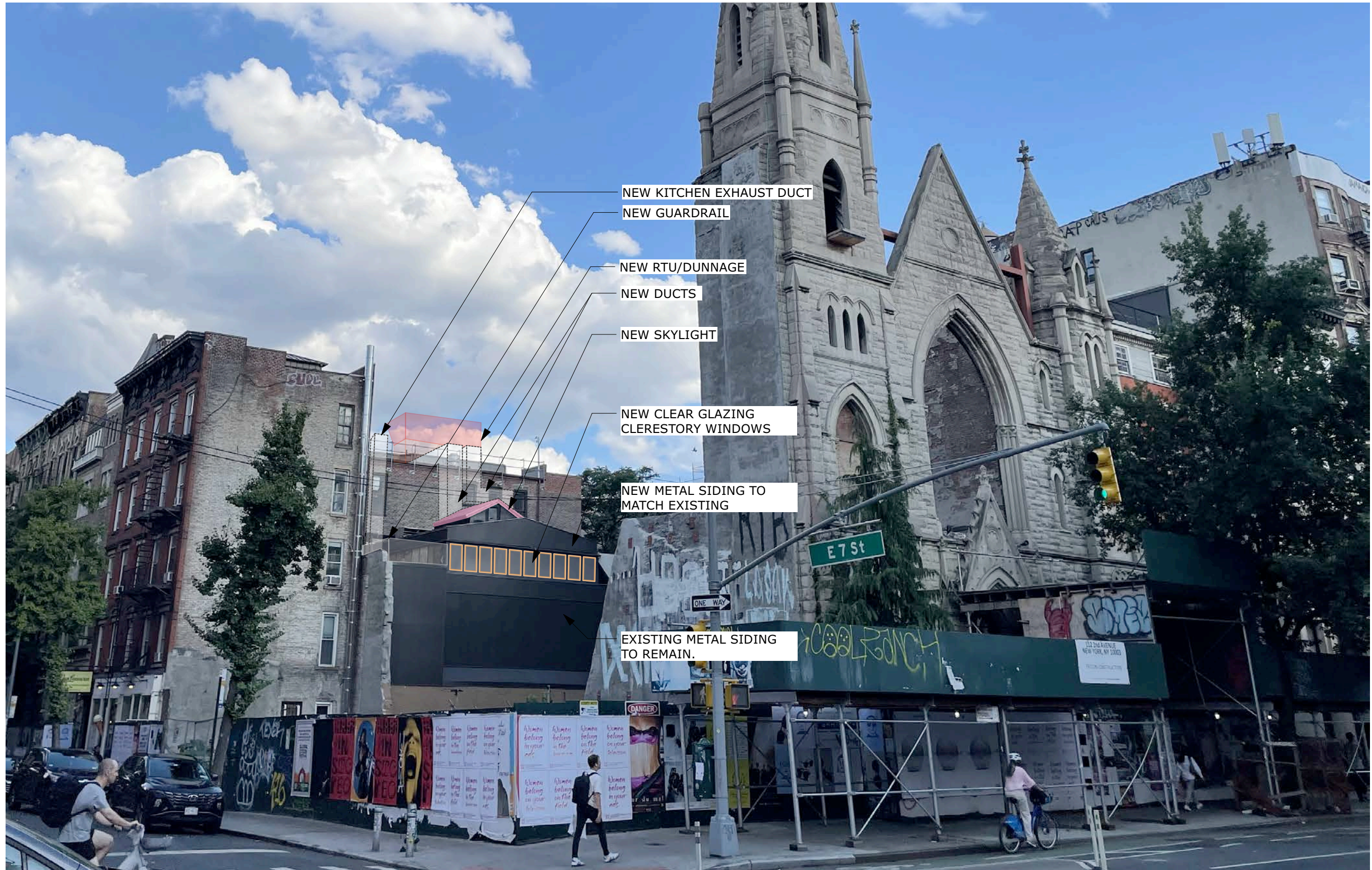
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SK-08

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SCOPE OF WORK

RENDERING OF WEST ELEVATION WITH RTU AND DUCTS



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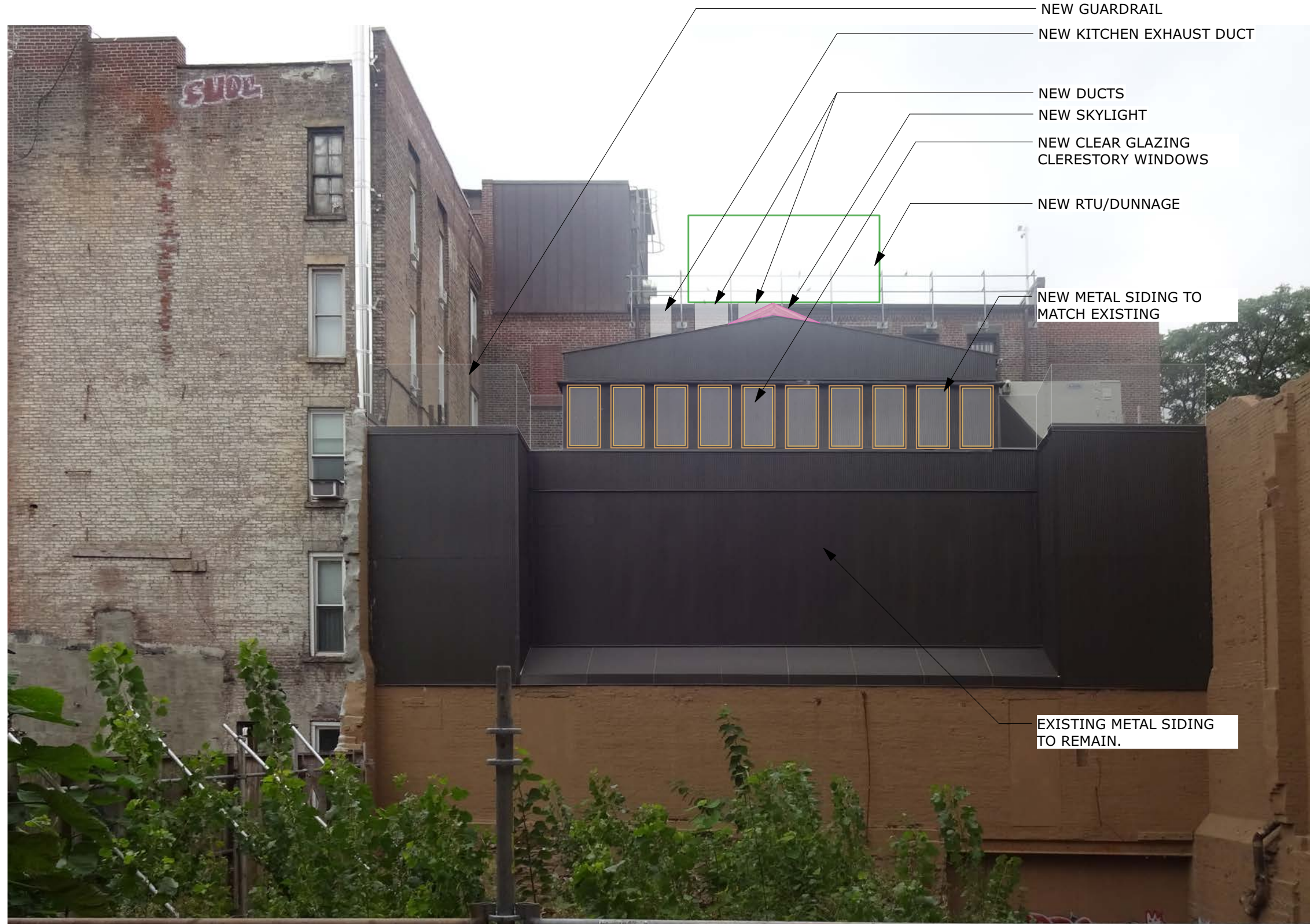
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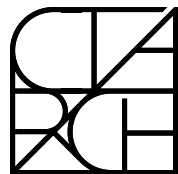
SK-10

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SCOPE OF WORK RENDERING



RENDERING OF WEST ELEVATION WITH SUPER IMPOSED RTU AND DUCTS.



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MIDDLE COLLEGIATE CHURCH

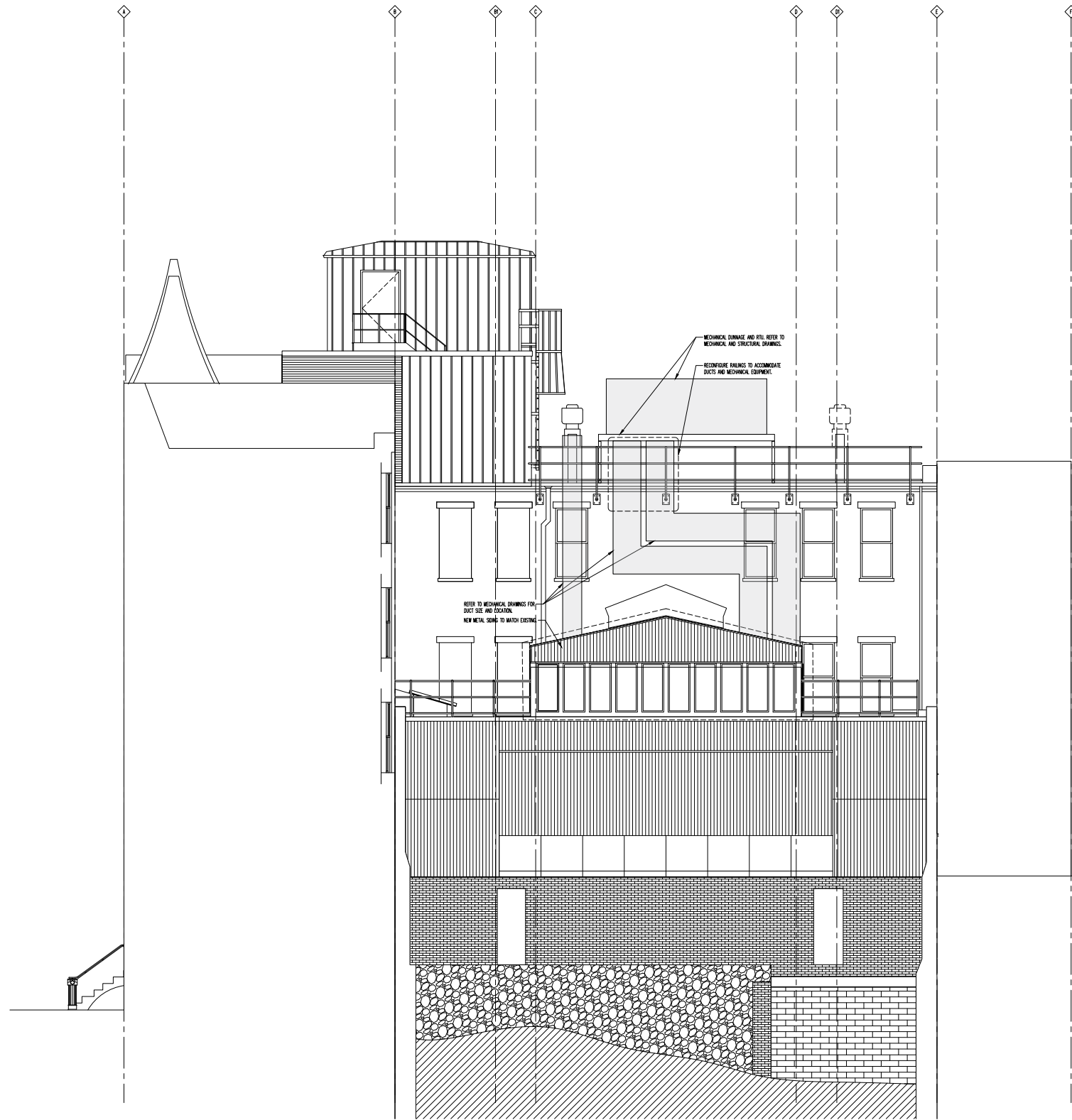
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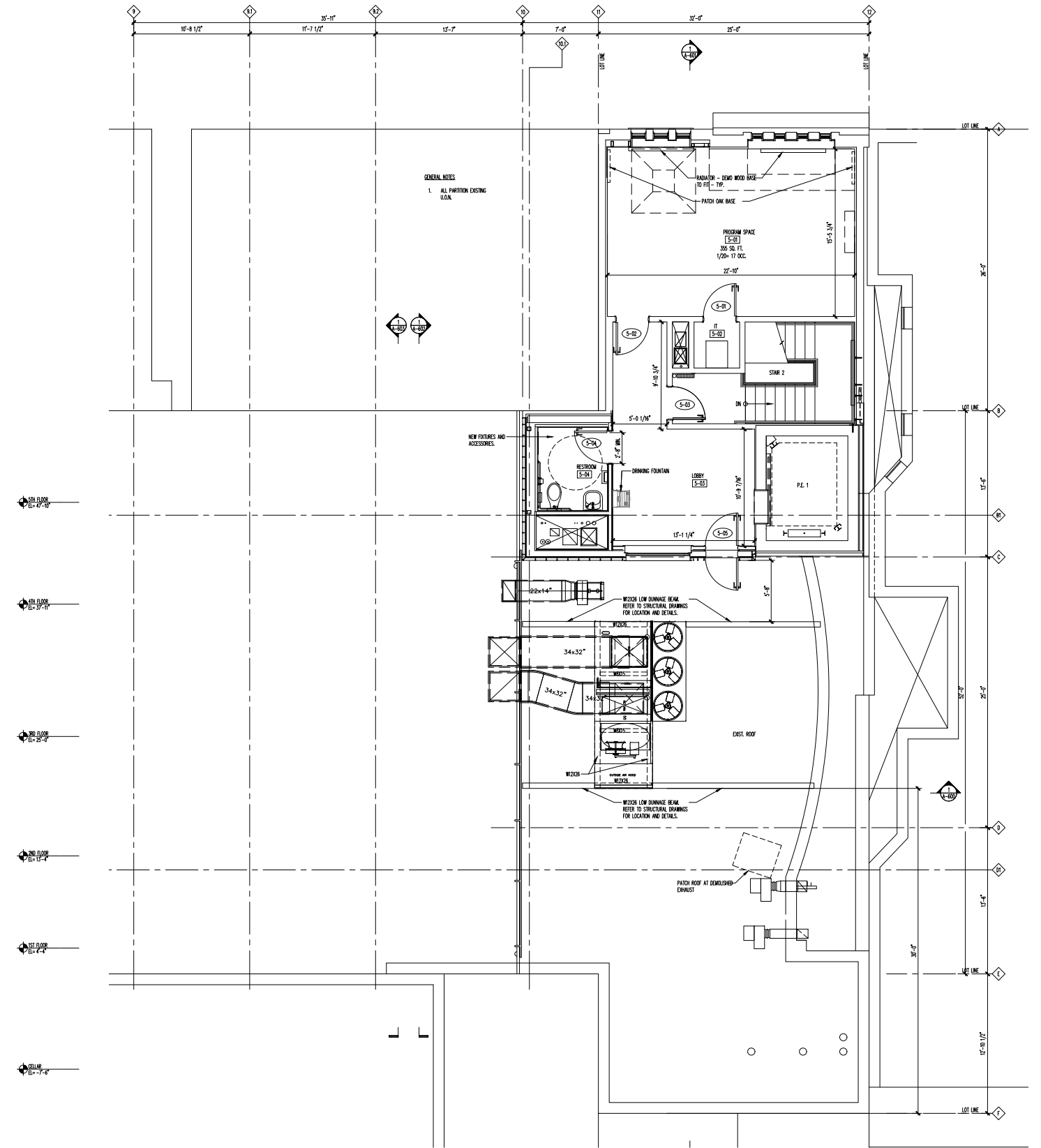
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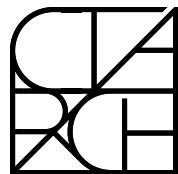
EXISTING WEST ELEVATION AND 5TH FLOOR ROOF PLAN



EXISTING WEST ELEVATION
NOT TO SCALE



5TH FLOOR ROOF PLAN
NOT TO SCALE



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SK-13

15 DEC 2023



2425 South Yukon Ave - Tulsa, Oklahoma 74107-2723 - Ph: (918) 583-2266 Fax: (918) 583-8884
AAON Ecot32 Ver: 4.339 (SN: 7443216-ORUP830D)

Unit Rating

RN-030-8-0-EB09-38B:UELC-Q0H-DEM-AGA-0DECLYD-00-HJE0000VB
Tag: RTU-1 - 30-Ton

Job Information		Unit Information	
Job Name:	Middle Church - Low Sound Condenser	Approx. Op./Ship Weights:	3784 / 3784 lbs. (±5%)
Job Number:	Fans	Supply CFM/ESP:	12250 / 2 in. wg.
Site Altitude:	Job #2022120674	Pre-Filter FV / Qty:	12250 / 2 in. wg.
Refrigerant:	0 ft	Final Filter FV / Qty:	588.00 fpm / 6
	R-410A	Exhaust CFM/ESP/TSP:	588.00 fpm / 6
		Outside CFM:	2770 / 0.75 / 1.27 in. wg.
		Ambient Temperature:	2550
		Return Temperature:	94.9°F DB / 74.9°F WB
			75°F DB / 62°F WB

Static Pressure		Economizer:	
External:	2.00 in. wg.	External:	0.34 in. wg.
Evaporator:	0.97 in. wg.	Heating:	0.66 in. wg.
Filters Clean:	0.85 in. wg.	Cabinet:	0.33 in. wg.
Dirt Allowance:	0.35 in. wg.	Energy Recovery:	0.38 in. wg.
Re-Heat Coil:	0.18 in. wg.	Total:	5.67 in. wg.

Cooling Section		Heating Section	
Equivalent Total Capacity:	Gross 423.59 MBH Net 372.96 MBH	PreHeat Type:	Std (No Preheat)
Total Capacity:	341.18	Heating Type:	Nat. Gas Heat
Sensible Capacity:	295.06	Heating CFM:	12250
Latent Capacity:	46.12 MBH	Total Capacity:	328.1 MBH
HW Total Cooling Capacity:	32.40 MBH	OA Temp:	0.0°F DB / 0.0°F WB
Mixed Air Temp:	76.03°F DB	RA Temp:	70.0°F DB / 58.0°F WB
Entering Air Temp:	62.74°F WB	Entering Air Temp:	66.1°F DB / 55.8°F WB
Lv Air Temp (Coil):	53.46°F DB	Leaving Air Temp:	90.9°F DB / 64.8°F WB
Lv Air Temp (Unit):	57.24°F DB	Input:	405.0 MBH
Digital Comp. Capacity Ratio:	100%	Heater Qty:	1
Supply Air Fan:	1 x 270 @ 18.50 BHP	Consumption:	405.0 MBH
SA Fan RPM / Width:	1777 / 5.640"	Total Turndown Ratio:	13.1
Exhaust Air Fan:	1 x RM220A870 @ 0.87 BHP		
EA Fan RPM / Width:	1118 / 3.450"		
Evaporator Coil:	19.9 HP / 6 Rows / 12 FPI	Re-Heat Coil:	213 MBH
Evaporator Face Velocity:	616.8 fpm	Capacity:	69.55°F / 59.17°F
Energy Recovery:	1 x ERC-5255C-4M	LA DB / WB:	54%
		RH:	

Rating Information	
Listing Model:	RN-030-3-0-BABY-V0-21-000-A
Cooling Capacity (MBH):	308.0
Cooling EER:	10.8
Cooling IEEER:	13.2
Rated in accordance with AHRI 340/360	
Application EER @ Op. Conditions:	8.6

Electrical Data						
Rating:	208/360	Minimum Circuit Amp:	205			
Unit FLA:	190	Maximum Overcurrent:	250			
SCCR:	5 KAIC					
Qty	HP	VAC	Phase	RPM	FLA	RLA
Compressor 1:	1	208	3			51.3
Compressor 2:	1	208	3			51.3
Condenser Fans:	3	208	1	1110	7.4	
Supply Fan:	1	20.00	208	3	1760	59.4
Exhaust Fan:	1	1.00	208	3	1760	4.6
Combustion:	2	0.25	208	1	3210	1.7
Energy Recovery:	1	0.1667	208	1	1075	1.2

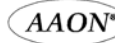
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Unit Rating

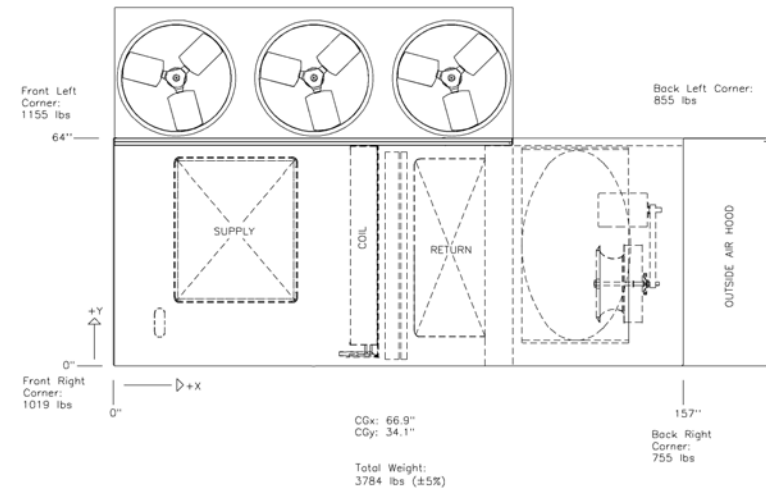
Cabinet Sound Power Levels*								
Octave Bands:	63	125	250	500	1000	2000	4000	8000
Discharge L W(dB):	99	96	96	100	97	93	90	87
Return L W(dB):	87	88	84	77	77	73	66	59

*Sound power levels are given for informational purposes only. The sound levels are not guaranteed.

**RNC CABINET
AIR COOLED CONDENSING UNIT
WITH ENERGY RECOVERY SECTION**



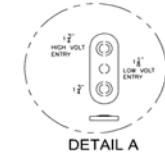
RN-030-8-0-EB09-38B:UELC-Q0H-DEM-AGA-0DECLYD-00-HJE0000VB



Disclaimer: This weight estimate does not account for any SPAs.

**RN SERIES
C - CABINET WITH ECONOMIZER ~ 16-30 TON
ENERGY RECOVERY SECTION AND POWER EXHAUST**

CLEARANCES	
LOCATION	UNIT SIZE
OUTSIDE AIR (BACK)	16 - 30 TON
CONTROLS SIDE (FRONT)	48
LEFT SIDE	6
RIGHT SIDE	60
TOP	UNOBSTRUCTED



NUMBER OF CONDENSER FANS
16.18 & 20 TON - 2 FANS
25 & 30 TON - 3 FANS

