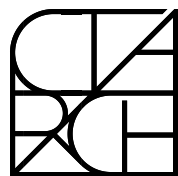




MIDDLE COLLEGIATE CHURCH~1966



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MIDDLE COLLEGIATE CHURCH

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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)

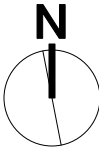


OVERVIEW OF MIDDLE COLLEGIATE CHURCH FACADE, MAIN ENTRANCE (2023)

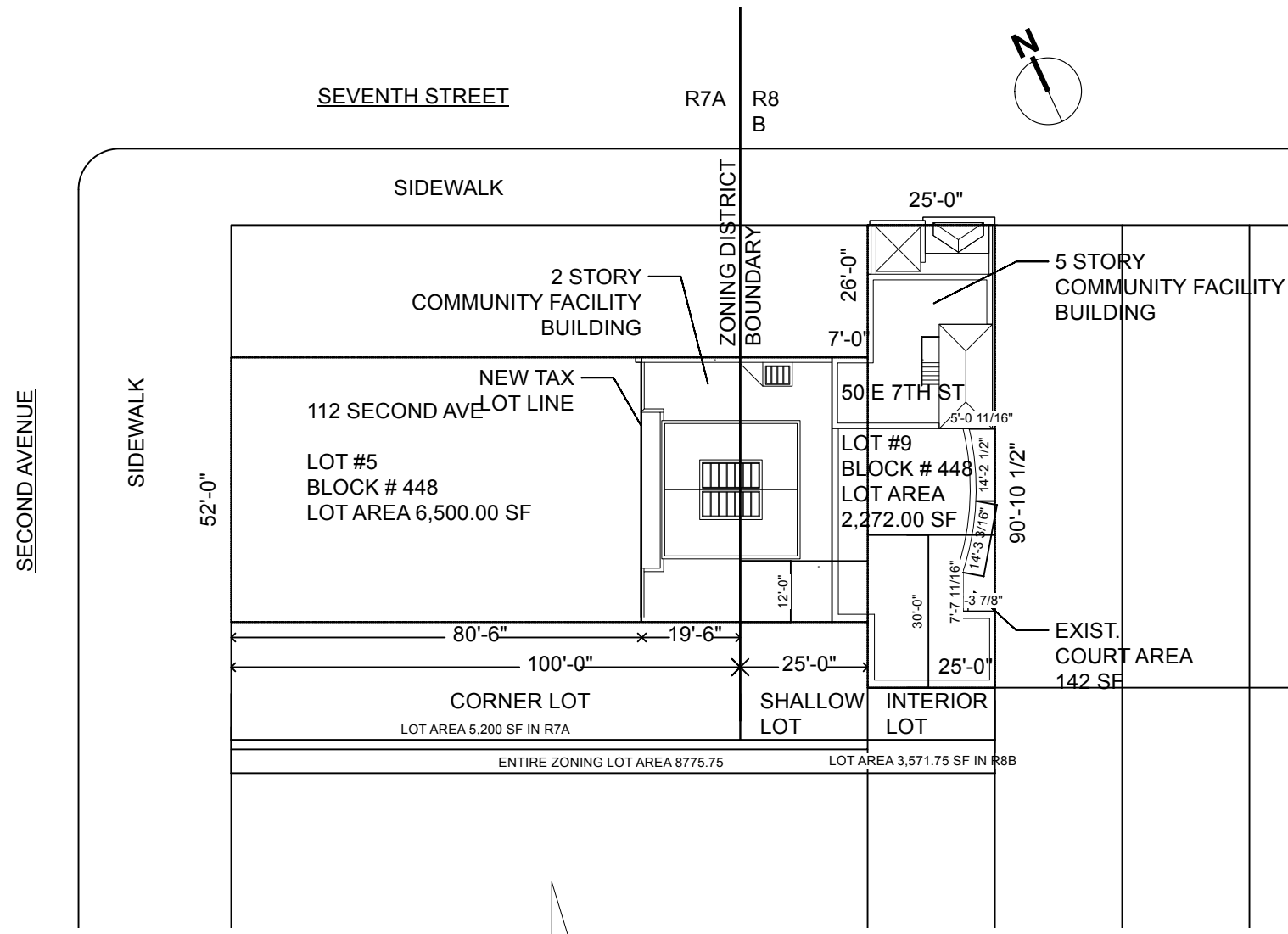


50 EAST - 7TH STREET, NEW YORK  
MIDDLE COLLEGIATE CHURCH  
BLOCK 448, LOT 5

1 AERIAL OVERVIEW  
NOT TO SCALE

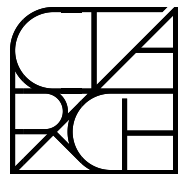


**SITE PLAN**



OVERVIEW OF EXISTING BUILDING.

2 SITE PLAN  
NOT TO SCALE



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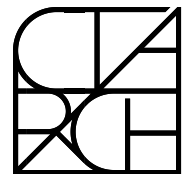
**EXISTING PHOTOGRAPHS**



OVERVIEW OF WEST ELEVATION



OVERVIEW OF WEST ELEVATION



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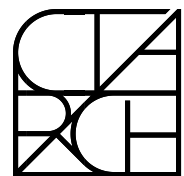
**EXISTING PHOTOGRAPHS**



OVERVIEW OF EXISTING SKYLIGHT



OVERVIEW EXISTING CLERESTORY / INTERIOR



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**SK-05**

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**EXISTING CONDITION AT 5TH FLOOR ROOF**



OVERVIEW OF 5TH FLOOR ROOF



OVERVIEW OF 5TH FLOOR ROOF



OVERVIEW OF 5TH FLOOR ROOF



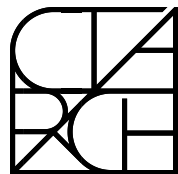
OVERVIEW OF 5TH FLOOR ROOF



VIEW OF 3RD FLOOR / ROOF BELOW



OVERVIEW OF 5TH FLOOR ROOF



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SK-06

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**EXISTING CONDITION AT 3RD FLOOR ROOF**



EXTERIOR / EXISTING CLERESTORY WINDOWS



INTERIOR / EXISTING CLERESTORY WINDOWS



EXISTING EXTERIOR CLERESTORY WINDOWS SIDING



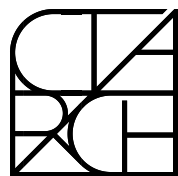
EXISTING CLERESTORY WINDOW CONDITION



EXISTING SKYLIGHT



EXISTING SKYLIGHT



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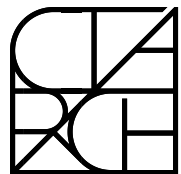
SK-07

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**SCOPE OF WORK**



RENDERING OF WEST ELEVATION WITH SUPER IMPOSED RTU AND DUCTS.



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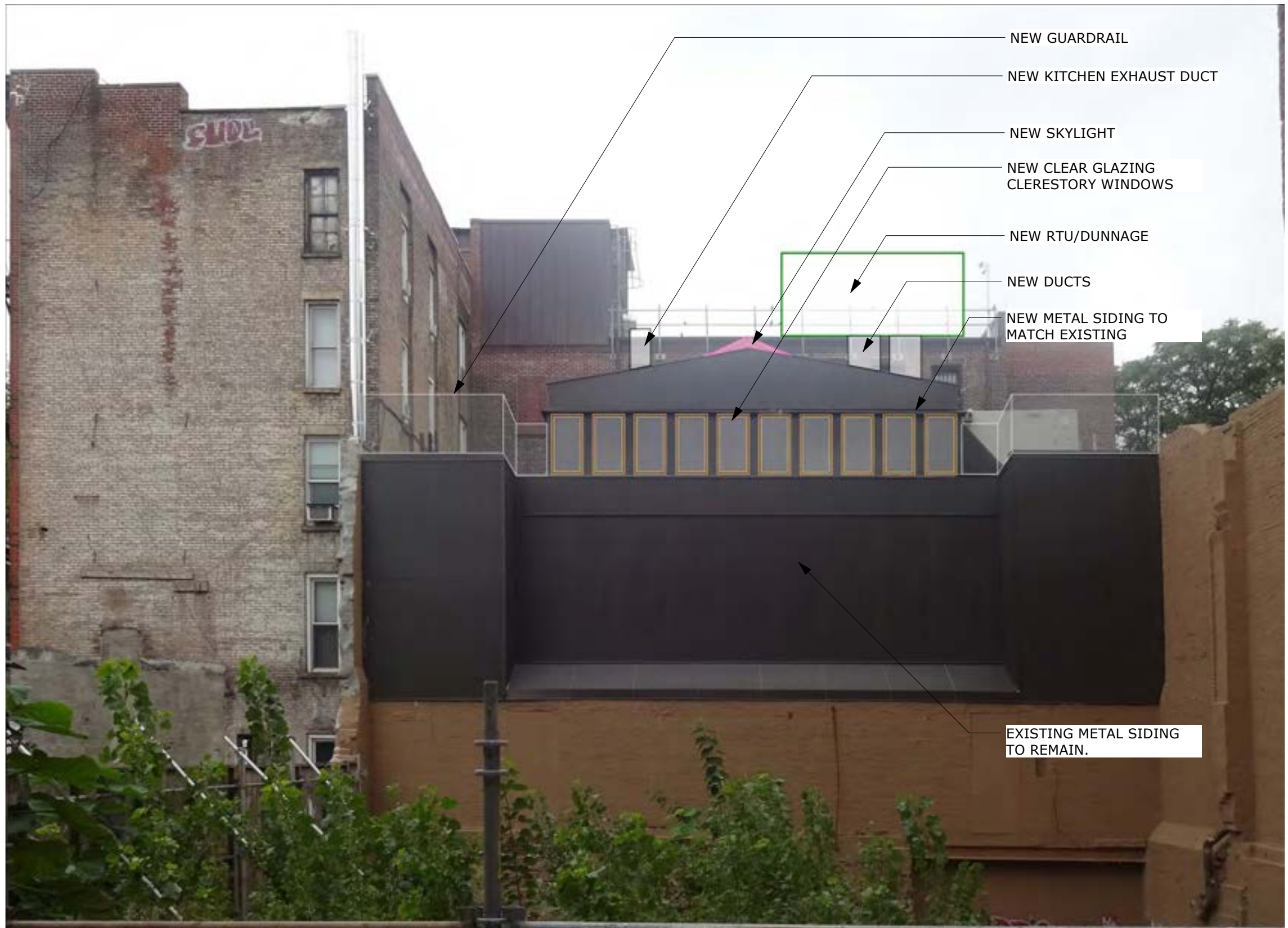
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**SK-08**

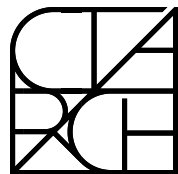
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**SCOPE OF WORK RENDERING**



RENDERING OF WEST ELEVATION WITH SUPER IMPOSED RTU AND DUCTS.



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MIDDLE COLLEGIATE CHURCH

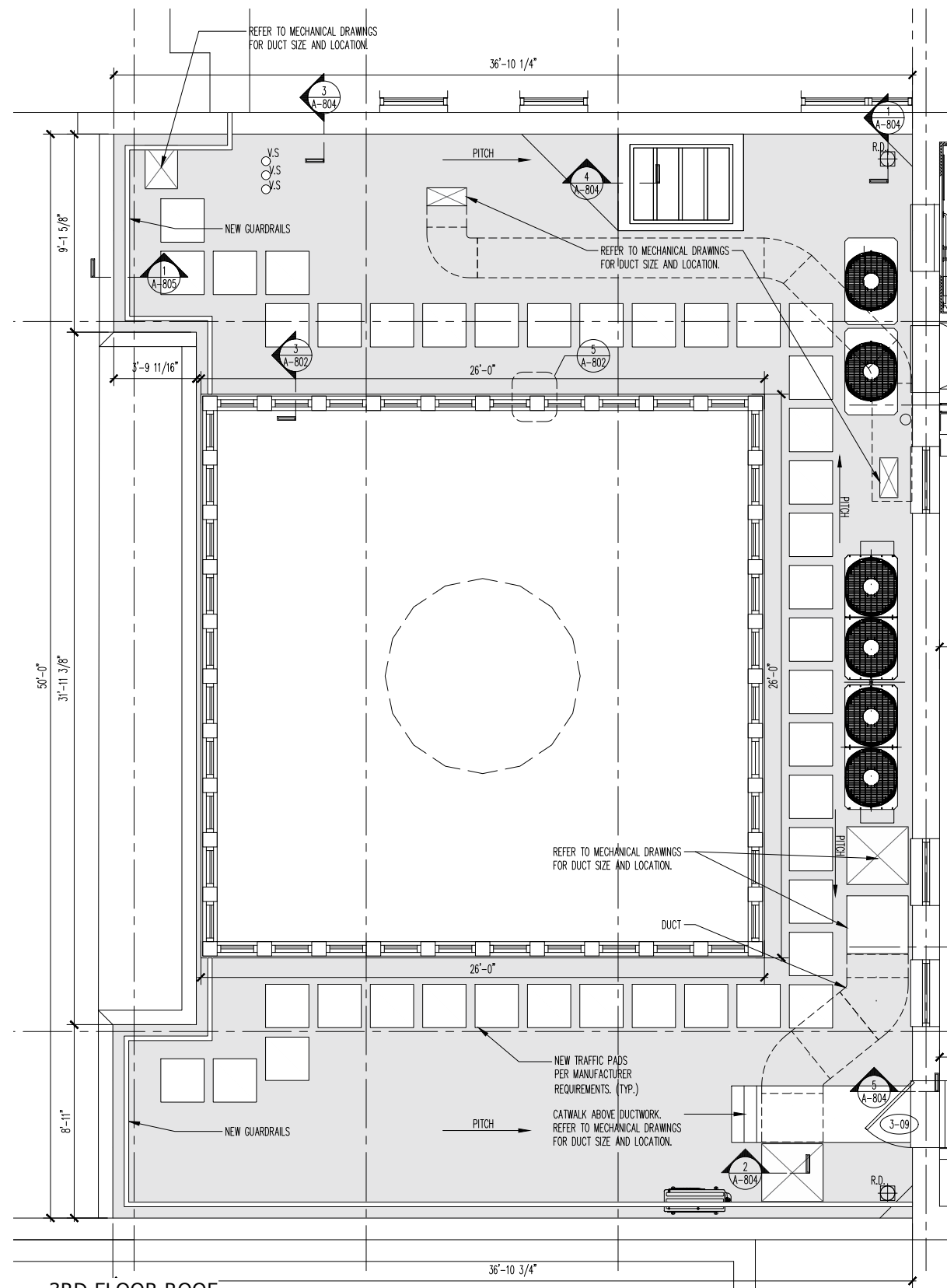
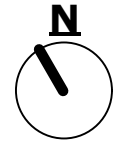
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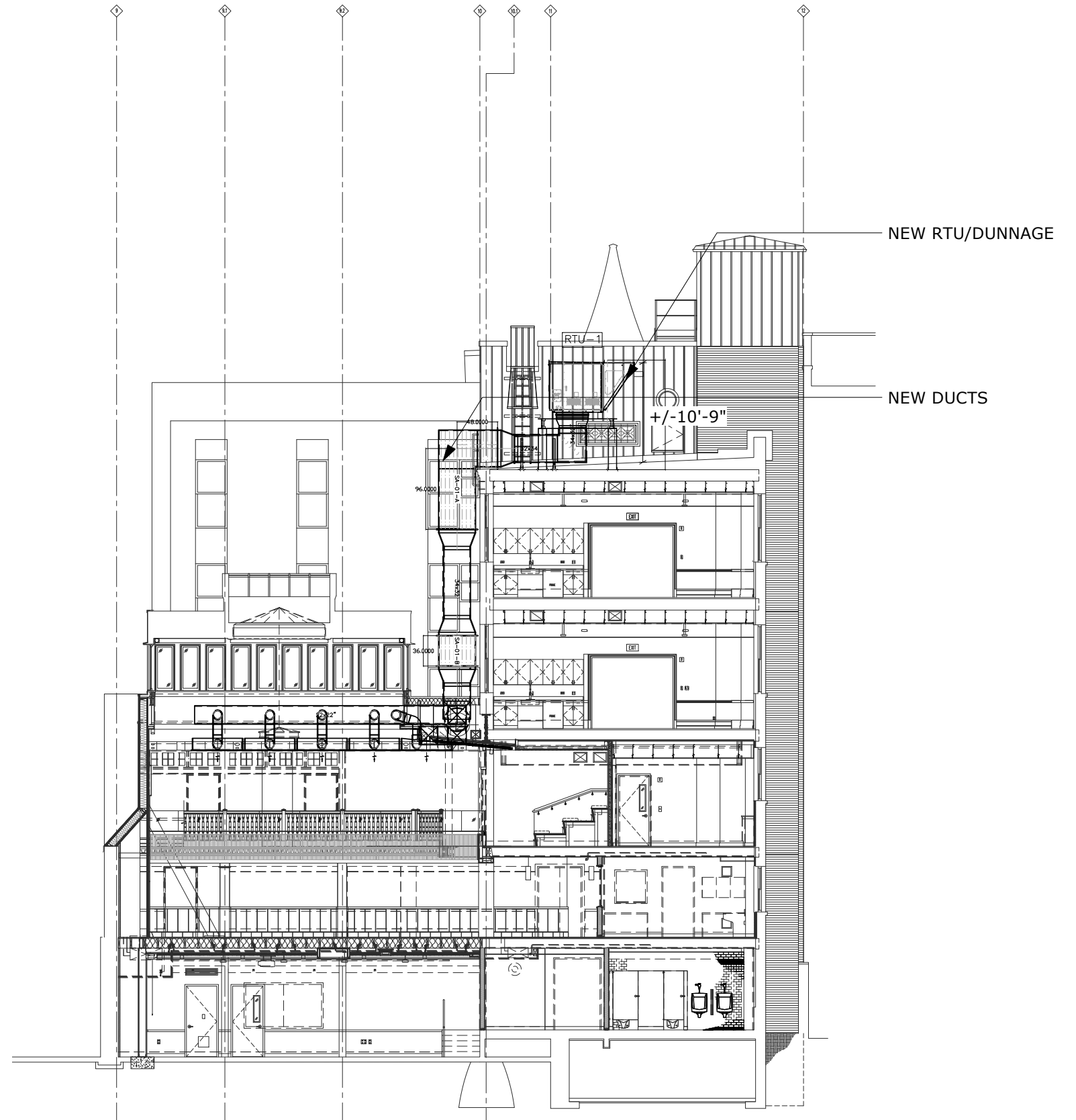
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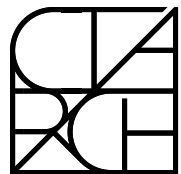
**SCOPE OF WORK**



3RD FLOOR ROOF  
NOT TO SCALE



BUILDING SECTION WITH PROPOSED RTU  
NOT TO SCALE



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MIDDLE COLLEGIATE CHURCH

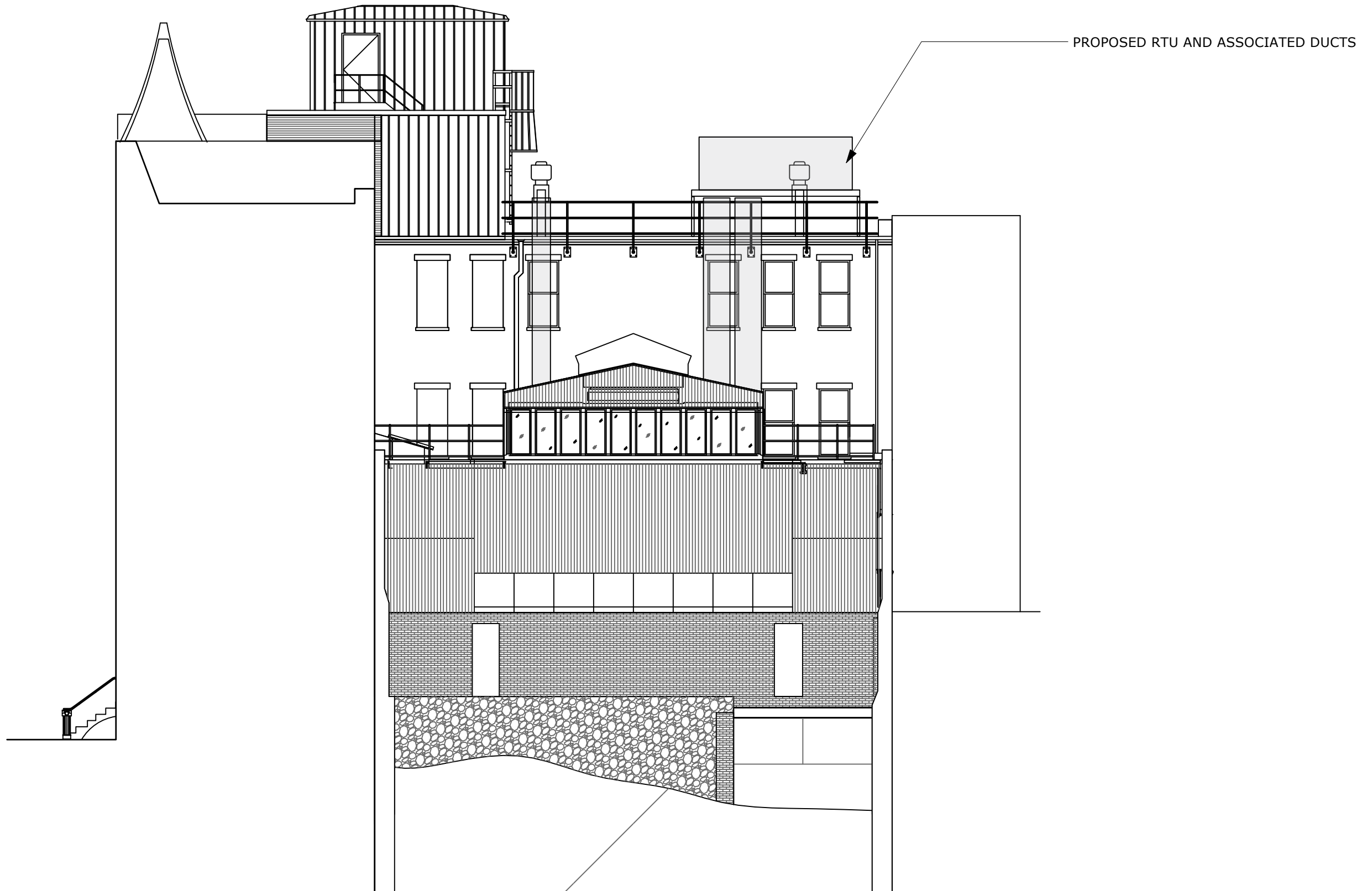
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**SK-10**

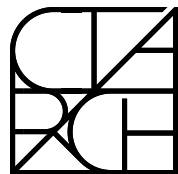
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**EXISTING WEST ELEVATION**



PROPOSED RTU AND ASSOCIATED DUCTS

EXISTING WEST ELEVATION  
NOT TO SCALE



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**SK-11**

15 DEC 2023



2425 South Yukon Ave - Tulsa, Oklahoma 74107-2728 - Ph: (918) 583-2266 Fax: (918) 583-6084  
AAONcat32 Ver: 4.339 (SN: 7443216-ORUPR3DQ)

**Unit Rating**

**RN-030-8-0-EB09-38B:UELC-QQH-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:	588.00 fpm / 6
Refrigerant:	R-410A	Final Filter FV / Qty:	588.00 fpm / 6
		Exhaust CFM/ESP/TSP:	2770 / 0.75 / 1.27 in. wg.
		Outside CFM:	2550
		Ambient Temperature:	94.9 °F DB / 74.9 °F WB
		Return Temperature:	75 °F DB / 62 °F WB

Static Pressure		Economizer:	
External:	2.00 in. wg.		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	Pro-Heat 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:	82.40 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:	76.03 °F DB	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 RM220AB70 @ 0.87 BHP		
EA Fan RPM / Width:	1118 / 3.450"		
Evaporator Coil:	19.9 ft <sup>2</sup> / 6 Rows / 12 FPI	<b>Re-Heat Coil:</b>	213 MBH
Evaporator Face Velocity:	616.8 fpm	Capacity:	69.55 °F / 59.17 °F
Energy Recovery:	1 x ERC-S255C-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 IEER:	13.2
Rated in accordance with AHRI 340/360	
<b>Application EER @ Op. Conditions:</b>	<b>8.6</b>

Electrical Data							
Rating:	208/360	Minimum Circuit Amp:	205				
Unit FLA:	190	Maximum Overcurrent:	250				
SCCR:	5 KAIC						
	<b>Qty</b>	<b>HP</b>	<b>VAC</b>	<b>Phase</b>	<b>RPM</b>	<b>FLA</b>	<b>RLA</b>
Compressor 1:	1		208	3			51.3
Compressor 2:	1		208	3			51.3
Condenser Fans:	3	1.00	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	

Date Created/Modified: 9/20/2023 9:52:39 AM Using Ver 4.339 (OSN# 0123456) Date Printed: 9/20/2023 9:52:39 AM

**Unit Rating**

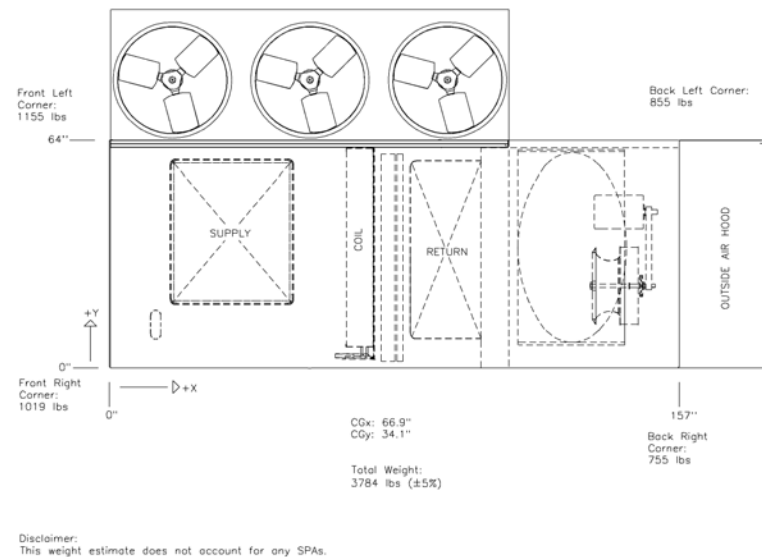
Cabinet Sound Power Levels*								
Octave Bands:	63	125	250	500	1000	2000	4000	8000
Discharge LW(dB):	99	96	96	100	97	93	90	87
Return LW(dB):	87	88	84	77	77	73	66	59

\*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**



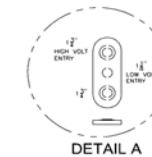
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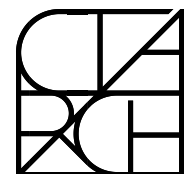
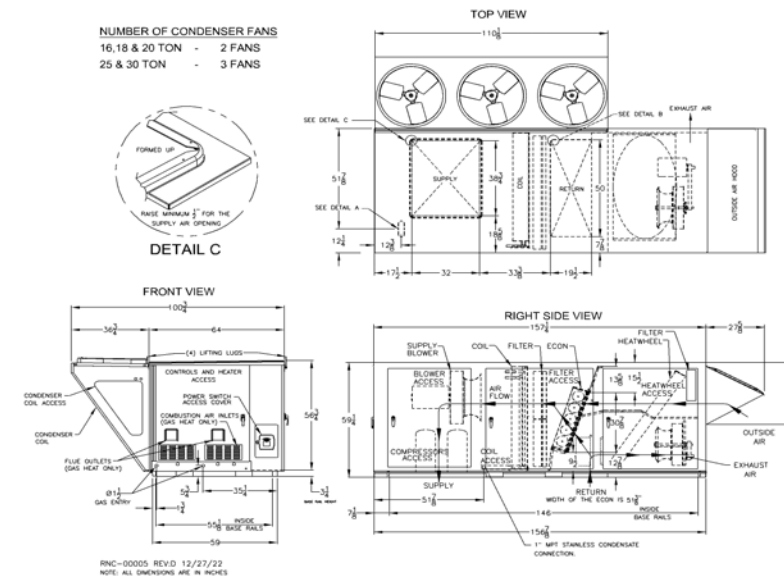
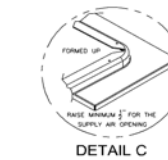
Disclaimer: This weight estimate does not account for any SPAs.

**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



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15 DEC 2023