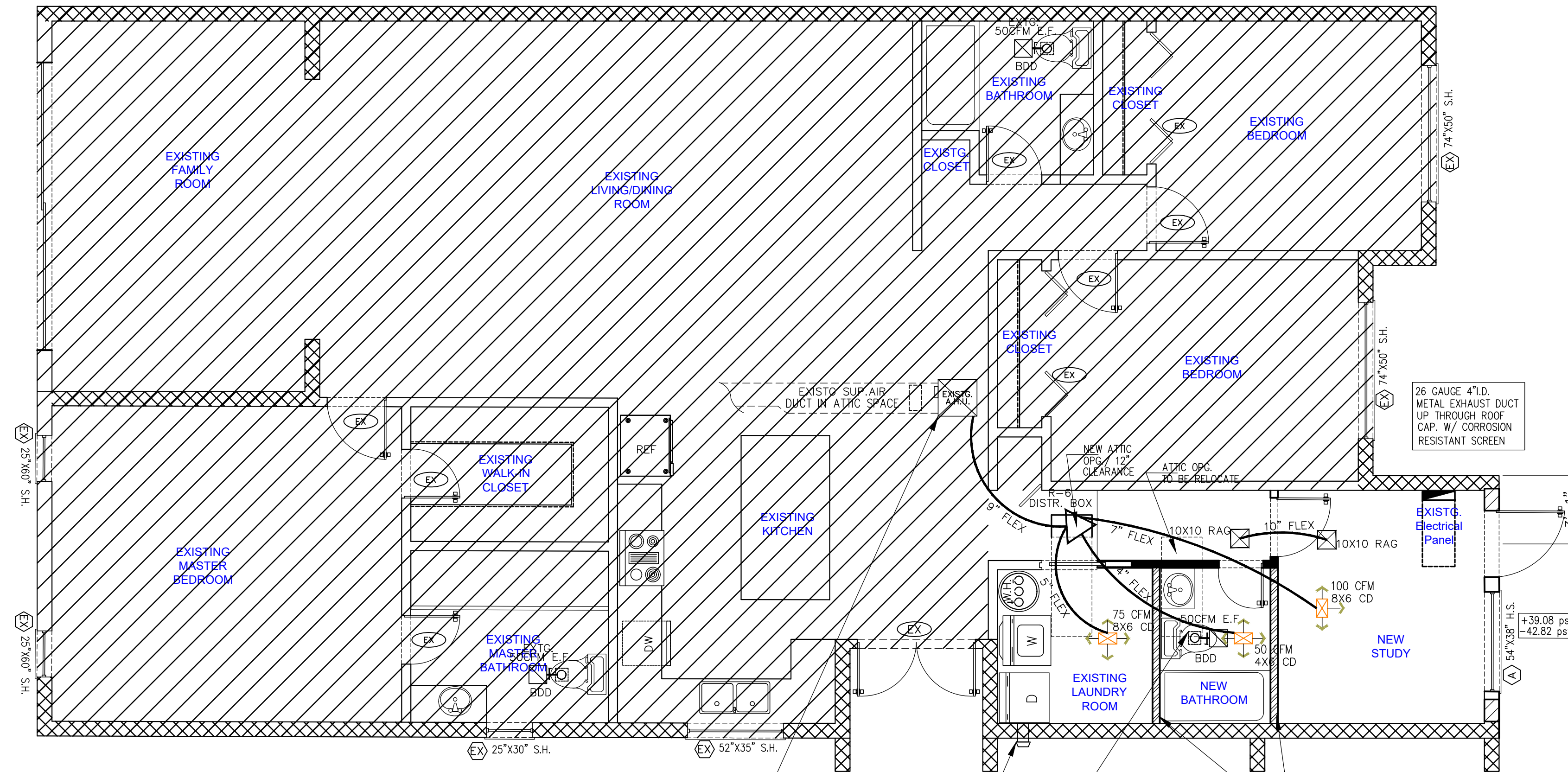


**EXISTING CONDENSER**

EXISTING CONDENSING UNIT SCHEDULE	
UNIT NUMBER	CU-1
UNIT LOCATION	OUTSIDE
UNIT WEIGHT (lbs)	195
UNIT NOMINAL CAP. (TONS)	<b>3 TON</b>
MATCHING AHU NUMBER	AHU-1
MANUFACTURER	TRANE
MODEL NUMBER	#TTP038D100AO EXISTING TWE036P13FBO
CALCULATED SEN. COOLING CAP. (BTUH)	<b>BTU 25,200</b>
CALCULATED TOTAL COOLING CAP. (BTUH)	<b>BTU 36,000</b>
AMBIENT TEMPERATURE	95°
UNIT'S MIN. SEER	<b>16.00</b>
AVAILABLE VOLTAGE	208/230-1-60
UNIT'S MIN CIRCUITS AMPS	30/30
UNIT'S MAX FUSE SIZE	40/40
LIQUID LINE DIAM.	3/8"
SUCTION LINE DIAM.	3/4"

**EXISTING AIR HANDLING UNIT SCHEDULE**

UNIT NUMBER	AHU-1
MATCHING CONDENSING UNIT	CU-1
MANUFACTURER	TRANE
MODEL NUMBER	EXISTING TWE036P13FBO
UNIT LOCATION	AHU CLOSET
UNIT TYPE	VERTICAL
ENTERING AIR TEMP. (db/wb)	80° / 67°
EVAPORATOR CFM WHOLE HOUSE	<b>1,200 CFM</b>
EXTERNAL STATIC PRESS	.50
EVAP. FAN MOTOR H.P.	1/2
AVAILABLE VOLTAGE	208/240-1-60
TOTAL HEATING CAP BTUH	<b>7.5KW 25590 BTUH</b>
NUMBER OF ELEMENTS	2
FILTER TYPE	PERMANENT
UNIT WEIGHT (LBS)	89 LBS



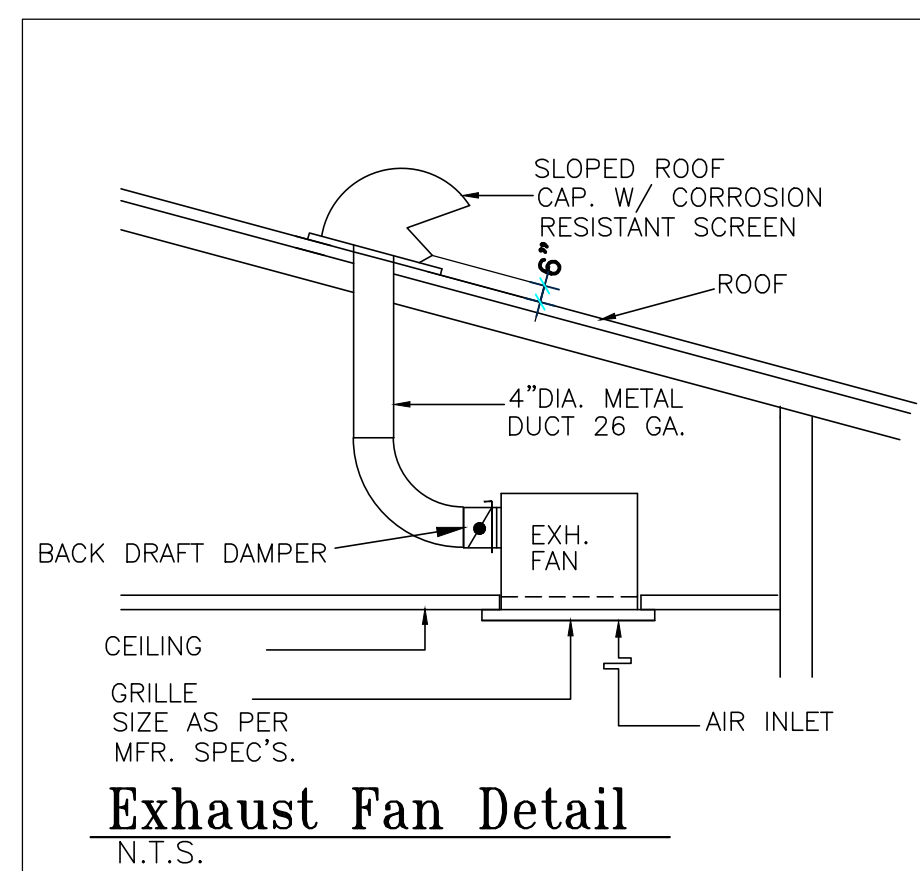
**MECHANICAL PLAN**

SCALE: 1/4" = 1'-0"

EXISTING RESIDENCE: 1,894 SQ. SF.  
GARAGE ENCLOSURE: 176 SQ. FT.  
TOTAL: 2,070 SQ. FT.

**GENERAL HVAC NOTES**

- ALL WORK SHALL CONFORM WITH THE LATEST FLORIDA MECHANICAL BUILDING CODE, AND ALL OTHER APPLICABLE STATE AND LOCAL REGULATIONS AND ORDINANCES.
- CONTRACTOR SHALL WARRANT ALL WORK TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE PROJECT.
- PROVIDE ALL NECESSARY INSTRUCTIONS TO THE OWNER IN THE OPERATION OF THE MECHANICAL SYSTEMS.
- PROVIDE EQUIPMENT MAINTENANCE AND INSTRUCTION MANUALS. MANUALS SHALL BE SUBMITTED TO THE ARCHITECT FOR ACCEPTANCE.
- SUBMIT SHOP DRAWINGS FOR ACCEPTANCE BY THE ARCHITECT AND/OR ENGINEER BEFORE PROCEEDING WITH PURCHASE OR INSTALLATION OF THE EQUIPMENT AND MATERIALS.
- PROVIDE ALL NECESSARY ACCESS PANELS TO CONTROL VALVES, DAMPERS, ETC.
- BALANCE ALL SYSTEMS TO PROVIDE AIR QUANTITIES AND CAPACITIES AS INDICATED ON DRAWINGS.
- ALL WORK SHALL BE FIELD CHECKED BEFORE INSTALLATION AND COORDINATED WITH ALL OTHER TRADES.
- A/C CONTRACTOR IS RESPONSIBLE FOR OBTAINING HIS OWN PERMIT AND PAYING ALL PERMIT FEES.
- ALL SIZES SHOWN FOR LINED AND UNLINED DUCTS ARE CLEAR INSIDE DUCT DIMENSIONS.
- CONDITIONED AIR DUCTWORK SHALL BE CLASS "1" FIBER GLASS DUCTBOARD IN ACCORDANCE WITH SMACNA'S FIBROUS DUCT STANDARDS. R-6 IN ATTIC SPACE.
- PROVIDE VOLUME DAMPERS, TURNING VANES, ETC., IN DUCTWORK FOR PROPER AIR FLOW AND BALANCE. PROVIDE MULTIPLE VANE EXTRACTORS OR SPLITTERS WITH CONTROL RODS AT ALL OUTLETS CONNECTED CLOSER THAN TWO DUCT DIAMETERS TO MAIN SUPPLY DUCT AND WHERE SHOWN ON DRAWINGS.
- REFRIGERANT PIPING SHALL BE SEAMLESS COPPER TYPE "L" HARD OR SOFT DRAWN OR ACR COPPER TUBING WITH WROUGHT COPPER SOLDER JOINT FITTINGS. SOLDER SHALL BE 95/5, APPLIED WITH SUITABLE FLUX.
- INSULATE REFRIGERANT SUCTION PIPING WITH 3/4" FIRE RESISTANT FOAM PLASTIC OR CLOSED CELL POLYETHYLENE PREMOULDED PIPE INSULATION.
- PROVIDE AIR CONDITIONING UNITS WITH MATCHING HEAT-COOL THERMOSTATS WITH ON-OFF-AUTO SUB-BASE SWITCH, FURNISHED BY EQUIPMENT MANUFACTURER.
- COORDINATE LOCATION OF DUCTWORK WITH OTHER TRADES, PARTICULARLY WHERE DUCTS RUN THROUGH STRUCTURAL ELEMENTS. PROVIDE ALL NECESSARY SLEEVES BEFORE CONCRETE IS POURED.
- ALL CONTROL WIRING SHALL BE THE RESPONSIBILITY OF THE MECHANICAL SUB-CONTRACTOR. MECHANICAL SUB CONTRACTOR TO FURNISH ALL MOTORS, STARTERS, AND RELAYS, ETC.
- VENTILATION AND EXHAUST AIR DUCTWORK SHALL BE SHEET METAL PER SMACNA STANDARDS.
- AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE SCH 40 PVC.



**Exhaust Fan Detail**  
N.T.S.

EXHAUST DUCTS SHALL TERMINATE ON THE OUTSIDE 3FT. AWAY FROM ANY OPERABLE & NONOPERABLE BLDG. OPENING AND SHALL BE EQUIPPED WITH A BACKDRAFT DAMPER & CORROSION RESISTANT SCREEN (EXCEPT DRYER VENT)

HVAC DESIGN CHART		
HVAC DESIGN REQUIRES:	YES	NO
DUCT SMOKE DETECTOR (S)		✓
FIRE DAMPER (S)		✓
FIRE RATED ENCLOSURE		✓
FIRE RATED ROOF/FLOOR		✓
FIRE RATED CEILING ASSEMBLY		✓
FIRE STOPPING		✓
SMOKE CONTROL		✓

**HVAC SYMBOLS**

GENERAL	
□	THERMOSTAT
□	CUBIC FEET PER MINUTE
□	AIR HANDLING UNIT
□	CONDENSING UNIT
□	REFRIGERANT SUCTION PIPING
□	REFRIGERANT LIQUID PIPING
□	CONDENSATE PIPING
□	DUCT WITH TURNING VANES
□	TAP-OFF DUCT WITH AIR SCOOPER
□	TAP-OFF DUCT WITH VOLUME DAMPER
□	INSULATED FLEXIBLE DUCT
AIR DISTRIBUTION	
(A)	SUPPLY AIR CEILING DIFFUSERS ALL ALUMINUM WITH OBD MODEL 250AA MFR: TITUS
(B)	SUPPLY AIR REG.W/ OBD ALL ALUMINUM MODEL 272FS MFR: TITUS
(C)	R/A TRANSFER GRILLES & RAG ALL ALUMINUM MODEL 4FL MFR: TITUS

**NEW EXH. FAN SCHEDULE**

EXH FAN No.	EF-1
AREA SERVED	NEW BATH
LOCATION	CEILING
CFM	50
STATIC PRESSURE	1"
TYPE DRIVE	DIRECT
MOTOR AMPS	.50
ELECTRIC CHARACT.	110-1-60
MANUFACTURER	NUTONE
MODEL NUMBER	LS50
REMARKS	B,C,D,F,G,H

(A) ROOF CURB, (B) SAFETY SWITCH, (C) INSIDE GRILLE, (D) BIRD SCREEN, (F) BACKDRAFT DAMPER, (G) MAGNETIC STARTER W/ REMOTE ON/OFF SWITCH, (H) 841-AL

REVISIONS	DATE

**GARAGE ENCLOSURE, BATH & STUDY ADDITION**  
753 ANDORRA PLACE  
BOCA RATON, FL 33483

SEAL

OWNER: Nachum Caplan & Alyssa Cohen  
PROJECT: Garage enclosure to Bath & Study Addition

**CARL G. FORBES PE**  
1000 S. DIXIE HIGHWAY  
POMPANO BEACH, FLORIDA 33069  
EMAIL: CARLFORBES@BELLSOUTH.NET  
PHONE: 954-682-6516 FAX: 954-903-4284  
FLORIDA STATE LICENCE NO. 20869

DRAWN BY:  
**S. DELINCE**  
Hollywd Florida 33024  
PHONE: 786-606-5531  
EMAIL: mduelosdesign01@aol.com

DATE: 10/15/21  
SCALE: **1/4" = 1'-0"**  
OWNER: Nachum Caplan & Alyssa Cohen  
PROJECT: Garage enclosure to Bath & Study Addition

