

MECHANICAL SPECIFICATIONS	
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SYSTEMS NOTE

1. TEMPERATURE CONTROLS:
- A. FOR NEW STANDING UNITS, THERMOSTAT SHALL BE COMBINATION COOLING/HEATING, WITH SYSTEM "COOL-AUTO-HEAT-OFF" AND "ON-AUTO" SELECTOR SWITCHES, PROVIDE PROGRAMMABLE TYPE AS RECOMMENDED BY MANUFACTURER, HONEYWELL, OR EQUIVALENT. PROVIDE SOFTWARE LOCK AND/OR TAMPER PROOF COVERS AS COMING STANDARD WITH OVERVIEW CIRCUIT.
- B. FOR EXISTING EQUIPMENT, SHALL BE SERVED AND RELOCATED AS SHOWN. IF NEW THERMOSTAT IS PROVIDED, SHALL MATCH BUILDING STATION.
- C. POWER BROADCASTING, SHALL BE FURNISHED AND INSTALLED BY ELEC. CONTRACTOR UNLESS OTHERWISE NOTED. CONTROL WIRING BY MECH/CONTROL CONTRACTOR.
- 24V TRANSFORMER SHALL BE PROVIDED BY MANUFACTURER FOR ALL UNITS/EQUIPMENT THAT REQUIRE CONTROL POWER. IF NOT SPECIFIED, IT SHALL BE 100VA.
- 120V POWER AS REQUIRED BY SYSTEM CONTROLLERS SHALL BE PROVIDED/COORDINATED BY ELEC. CONTRACTOR WITH MECH. AND CONTROLS CONTRACTORS.
2. THERMOSTAT LOCATION SHALL BE APPROVED BY OWNER AND ENGINEER BEFORE INSTALLATION. INSTALL THERMOSTAT PER AIA REQUIREMENTS WHERE APPLICABLE. MAX. 48" HIGH FOR FORWARD REACH. MAX. 48" HIGH FOR REAR MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ALL REQUIREMENTS FOR JUNCTION BOXES, CONDUITS, CONTROL WIRING, POWER, AND ETC. DEFINE RESPONSIBILITIES AND SCOPE OF WORK FOR EACH TRADE PRIOR TO PURCHASING/INSTALLATION.
- SPECIAL NOTE:
- WHERE THERE ARE MORE THAN ONE SENSOR OR THERMOSTAT, SIZE BY SIDE, THEY SHALL BE GANGED TOGETHER WITHIN THE SAME COVER PLATE. HOWEVER, CONTRACTOR SHALL COORDINATE THIS ISSUE WITH ARCHITECT/OWNER PRIOR TO INSTALLATION AND SHALL BRING ANY DISCREPANCY TO THE ENGINEER'S ATTENTION.
3. REFITTING LINE SHALL BE COPPER, TYPE "1" HARD DRAIN WITH WROUGHT COPPER BRAZING-JOINT TYPE FITTINGS, USE BRAZING MATERIALS FOR HIGH PRESSURE PIPING W/ 150 LB. BOAR SIZES. COPPER-ALUMINUM BRASS OR RAY SHALL BE USED. ALUMINUM LINE SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. SOTTO COPPER TYPE "1" SHALL BE ALLOWED FOR RISER PIPING INSIDE CHASE OF UNIT NUMBER OF JOINTS, COMPLIANT WITH ENGINEER FOR ACHR APPROVAL, ALL EXPOSED PIPING SHALL BE PROTECTED BY 1/2" THICK POLYURETHANE FOAM PIPING INSULATING SYSTEM, CAP TO "VENTURE CLAD" AND COMPLY WITH FMC 2020, SEC.10.13.3 PROTECTION, PIPING INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED BY 1/2" THICK POLYURETHANE FOAM PIPING INSULATION SYSTEM EQUIPMENT, MECHANICAL AND WIND, AND SMALL PIPING SHELTERING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. (ADHESIVE TAPE SHALL NOT BE PERMITTED) COMPLIANT WITH FMC 2020, SEC. 04.52.10.
4. "AMFAPLE" OR EQUAL INSULATION SHALL BE USED FOR SLOTTED REFITTING LINE WITH THICKNESS PER FLUORINER CRYO CODE TABLE 04.52.10.3, FILTER/DRYER AND SIGHT GLASS SHALL BE PROVIDED AT LIQUID LINES.
5. PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE START-UP, REPLACE PRIOR TO FINAL ACCEPTANCE POWER.
6. HVAC CONTRACTOR SHALL PROVIDE VENTILATION CONTROLS COMPLIANT WITH FMC 2020, SEC. 403.1 AND 405.1 FOR ALL SYSTEMS AND SHALL VERIFY EXISTING CONDITIONS FOR COMPLIANCE, AS REQUIRED, FOR A FULLY OPERATIONAL SYSTEM.
7. MECHANICAL EQUIPMENT ON ROOF OR ELEVATED STRUCTURES SHALL COMPLY WITH FMC 2020 PAR. 306.5 IF INSTALLED HIGHER THAN 10 FEET AFF. MECHANICAL EQUIPMENT INSTALLED IN ATTICS SHALL MEET THE REQUIREMENTS OF FMC 2020 PAR. 306.5. MECHANICAL EQUIPMENT SHALL BE PROTECTED/REMOVED THROUGH EXISTING OPENING. MECHANICAL EQUIPMENT SHALL BE PROTECTED WITH MECHANICAL BARRIERS IF EXPOSED TO EXISTING ROOF. ALL EQUIPMENT SHALL BE INSTALLED ON CONCRETE PAD AT GRADE LEVEL, SIZED PER STRUCTURAL PLAN.

ALL WIND LOAD AND OTHER COMPLIANCE CALCULATIONS AND/OR INSTALLATION DETAILS FOR OUTDOOR MOUNTED MECHANICAL EQUIPMENT AS REQUIRED BY FPD 0000, SEC 1500 AND CHAPTER 16 SHALL BE PROVIDED BY A

MECHANICAL EQUIPMENT AS REQUIRED BY FWC 2020, SEC. 152.2 AND CHAPTER 16, SHALL BE PROVIDED BY A STRUCTURAL ENGINEER AND ARE SHOWN ON THESE PLANS FOR REFERENCE ONLY. SUCH CALCULATIONS SHALL BE PROVIDED BY THE EQUIPMENT MANUFACTURER OR BY THE GENERAL OR MECHANICAL CONTRACTOR ON BEHALF OF CLIENT. CONTRACTOR TO PROVIDE WIND LOAD CALCULATIONS SIGNED AND SEALED BY A FLORIDA REGISTERED STRUCTURAL ENGINEER IN ORIGINAL FOR COMPLIANCE WITH SEC. 301.15 OF FWC 2020, INCLUDING ANY DOCUMENTATION REQUIRED BY LOCAL JURISDICTION FOR PERMIT PURPOSES.

8. PROVIDE A MIN. OF 3" CLEARANCE IN FRONT OF ALL 120-200/240 VOLT PANELS AND MIN. 42" CLEARANCE IN FRONT OF ALL 277-480 VOLT PANELS. PROVIDE ADEQUATE SIDE CLEARANCE PER NEC 110.26.
9. MECHANICAL PLANS, GENERAL ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS. PLUMBING LEGENDS, SYMBOLS, AND NOTATIONS ARE TO BE USED TO AVOID CONFLICTS. AS ONE SET OF DOCUMENTS, DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS SHALL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TO AVOID CONFLICTS OF STRUCTURAL, PLUMBING, FIRE SPRINKLER AND ARCHITECTURAL, BUILDING FEATURES, DUCTWORK CHANGES MAY BE REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TO AVOID CONFLICTS.
10. CONDENSER, DRAIN PIPING TO BE AS SPECIFIED PER INSTALLATION PLANS. IF NOT SPECIFIED THEY SHALL BE: 1" COPPER OR PVC (WHERE ALLOWED BY CODE) WITH INSULATION THICKNESS PER FED 2020 TABLE C403.2.1. PROVIDE APPROVED WATER LEVEL DETECTOR OR FLOAT SWITCH TO AUTOMATICALLY SHUT DOWN THE AIR COND. UNIT IN THE EVENT OF A LOW WATER SUPPLY. PROVIDE APPROVED WATER SUPPLY SHUT OFF VALVE. WHERE NECESSARY AS ADVISED BY FIELD CONDITIONS OR INSTALLATION CHANGES AND PER PPE TO CONDENSER DRAIN PER PLUMBING PLANS.
11. CLEARANCE FOR MAINTENANCE, SERVICE, REPAIRS, AND REPLACEMENT FOR ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED IN ACCORDANCE WITH FMC 2020, SEC. 306. SERVICE ACCESS PANELS FOR WOOD EQUIPMENT IN CEILING SPACES SHALL BE PROVIDED TO COMPLY WITH THE REQUIREMENTS OF SEC. 306.
12. CORROSION COATING: CONTRACTOR SHALL PROVIDE CORROSION COATING TO CONDENSER/EVAPORATOR COILS, EQUIPMENT CASINGS/CABINETS AND ALL EXPOSED COPPER PIPING/ COMPRESSORS/ CONDENSER SECTION, AS REQUIRED PER THE FOLLOWING METAL COATING REQUIREMENTS: AS SPECIFIED BY SLOVOD, LUMINA, EQUIPMENT OR APPROVED EQUIV. WITH EXPOSED 60 YEAR WARRANTY.
13. MATERIALS ALLOWED IN RETURN AIR PLenums OR ABOVE CEILINGS USED IN RETURN AIR PLenum SHALL COMPLY WITH FMC 2020, SEC. 602.2.1. IF SPACING WITH RETURN AIR PLenum HAS ANY DUCT, DUCT PARTITIONS, AIR DUCTS, OR PARTITIONS, THEY MUST BE RETURN AIR PLenum COMPLIANT. RETURN AIR PLenum PARTITIONS, DUCTS, GRILLES ALLOWED SHALL BE (FIELD) COORDINATED WITH SUCH PIPING SO THAT NO PORTION OF THE GRILLES WILL BE EXPOSED TO THE CYCIC PIPING, DUCT CAVITIES AND SUCH JOIST PLUMBING SHALL COMPLY WITH FMC 2020, SEC. 602.3.

CONTRACTOR NOTE

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SYSTEM IN ACCORDANCE WITH THESE DRAWINGS, THE FLORIDA BUILDING CODE 2020 AND ALL APPLICABLE STATE, COUNTY, AND FEDERAL LAWS AND THE LISTED EDITIONS OF THE FOLLOWING PUBLICATIONS, SMACHNA/ASHRAE 2016, SMACHNA-10, ASHRAE-55, ASHRAE-62, 10-2010, 2012, MPPA 70-2017, 2018-2019, 2019-2020, 2020-2021, 2021-2022, 2022-2023, 2023-2024, 2024-2025, 2025-2026, 2026-2027, 2027-2028, 2028-2029, 2029-2030, 2030-2031, 2031-2032, 2032-2033, 2033-2034, 2034-2035, 2035-2036, 2036-2037, 2037-2038, 2038-2039, 2039-2040, 2040-2041, 2041-2042, 2042-2043, 2043-2044, 2044-2045, 2045-2046, 2046-2047, 2047-2048, 2048-2049, 2049-2050, 2050-2051, 2051-2052, 2052-2053, 2053-2054, 2054-2055, 2055-2056, 2056-2057, 2057-2058, 2058-2059, 2059-2060, 2060-2061, 2061-2062, 2062-2063, 2063-2064, 2064-2065, 2065-2066, 2066-2067, 2067-2068, 2068-2069, 2069-2070, 2070-2071, 2071-2072, 2072-2073, 2073-2074, 2074-2075, 2075-2076, 2076-2077, 2077-2078, 2078-2079, 2079-2080, 2080-2081, 2081-2082, 2082-2083, 2083-2084, 2084-2085, 2085-2086, 2086-2087, 2087-2088, 2088-2089, 2089-2090, 2090-2091, 2091-2092, 2092-2093, 2093-2094, 2094-2095, 2095-2096, 2096-2097, 2097-2098, 2098-2099, 2099-2100, 2100-2101, 2101-2102, 2102-2103, 2103-2104, 2104-2105, 2105-2106, 2106-2107, 2107-2108, 2108-2109, 2109-2110, 2110-2111, 2111-2112, 2112-2113, 2113-2114, 2114-2115, 2115-2116, 2116-2117, 2117-2118, 2118-2119, 2119-2120, 2120-2121, 2121-2122, 2122-2123, 2123-2124, 2124-2125, 2125-2126, 2126-2127, 2127-2128, 2128-2129, 2129-2130, 2130-2131, 2131-2132, 2132-2133, 2133-2134, 2134-2135, 2135-2136, 2136-2137, 2137-2138, 2138-2139, 2139-2140, 2140-2141, 2141-2142, 2142-2143, 2143-2144, 2144-2145, 2145-2146, 2146-2147, 2147-2148, 2148-2149, 2149-2150, 2150-2151, 2151-2152, 2152-2153, 2153-2154, 2154-2155, 2155-2156, 2156-2157, 2157-2158, 2158-2159, 2159-2160, 2160-2161, 2161-2162, 2162-2163, 2163-2164, 2164-2165, 2165-2166, 2166-2167, 2167-2168, 2168-2169, 2169-2170, 2170-2171, 2171-2172, 2172-2173, 2173-2174, 2174-2175, 2175-2176, 2176-2177, 2177-2178, 2178-2179, 2179-2180, 2180-2181, 2181-2182, 2182-2183, 2183-2184, 2184-2185, 2185-2186, 2186-2187, 2187-2188, 2188-2189, 2189-2190, 2190-2191, 2191-2192, 2192-2193, 2193-2194, 2194-2195, 2195-2196, 2196-2197, 2197-2198, 2198-2199, 2199-2200, 2200-2201, 2201-2202, 2202-2203, 2203-2204, 2204-2205, 2205-2206, 2206-2207, 2207-2208, 2208-2209, 2209-2210, 2210-2211, 2211-2212, 2212-2213, 2213-2214, 2214-2215, 2215-2216, 2216-2217, 2217-2218, 2218-2219, 2219-2220, 2220-2221, 2221-2222, 2222-2223, 2223-2224, 2224-2225, 2225-2226, 2226-2227, 2227-2228, 2228-2229, 2229-2230, 2230-2231, 2231-2232, 2232-2233, 2233-2234, 2234-2235, 2235-2236, 2236-2237, 2237-2238, 2238-2239, 2239-2240, 2240-2241, 2241-2242, 2242-2243, 2243-2244, 2244-2245, 2245-2246, 2246-2247, 2247-2248, 2248-2249, 2249-2250, 2250-2251, 2251-2252, 2252-2253, 2253-2254, 2254-2255, 2255-2256, 2256-2257, 2257-2258, 2258-2259, 2259-2260, 2260-2261, 2261-2262, 2262-2263, 2263-2264, 2264-2265, 2265-2266, 2266-2267, 2267-2268, 2268-2269, 2269-2270, 2270-2271, 2271-2272, 2272-2273, 2273-2274, 2274-2275, 2275-2276, 2276-2277, 2277-2278, 2278-2279, 2279-2280, 2280-2281, 2281-2282, 2282-2283, 2283-2284, 2284-2285, 2285-2286, 2286-2287, 2287-2288, 2288-2289, 2289-2290, 2290-2291, 2291-2292, 2292-2293, 2293-2294, 2294-2295, 2295-2296, 2296-2297, 2297-2298, 2298-2299, 2299-2300, 2300-2301, 2301-2302, 2302-2303, 2303-2304, 2304-2305, 2305-2306, 2306-2307, 2307-2308, 2308-2309, 2309-2310, 2310-2311, 2311-2312, 2312-2313, 2313-2314, 2314-2315, 2315-2316, 2316-2317, 2317-2318, 2318-2319, 2319-2320, 2320-2321, 2321-2322, 2322-2323, 2323-2324, 2324-2325, 2325-2326, 2326-2327, 2327-2328, 2328-2329, 2329-2330, 2330-2331, 2331-2332, 2332-2333, 2333-2334, 2334-2335, 2335-2336, 2336-2337, 2337-2338, 2338-2339, 2339-2340, 2340-2341, 2341-2342, 2342-2343, 2343-2344, 2344-2345, 2345-2346, 2346-2347, 2347-2348, 2348-2349, 2349-2350, 2350-2351, 2351-2352, 2352-2353, 2353-2354, 2354-2355, 2355-2356, 2356-2357, 2357-2358, 2358-2359, 2359-2360, 2360-2361, 2361-2362, 2362-2363, 2363-2364, 2364-2365, 2365-2366, 2366-2367, 2367-2368, 2368-2369, 2369-2370, 2370-2371, 2371-2372, 2372-2373, 2373-2374, 2374-2375, 2375-2376, 2376-2377, 23

DUCTWORK NOTE

1. DUCTWORK CONSTRUCTION, INSTALLATION AND MAINTENANCE REQUIREMENTS - VALUES SHALL COMPLY WITH FEI 2020, SEC. C403.2.2 AND TABLE C403.2.1, S.M.A.C.N.A. MANUAL FOR MEANS AND METHODS AND MANUFACTURER'S INSTRUCTIONS. DUCT SIZING IS COMPLIANT WITH FEA 2020, PARAGRAPH 6.02.22 ON ASHRAE "ELEVATION" METHOD. MAINTENANCE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
1. ALL AIR CONDITIONING DUCT WORK SHALL BE OF 1" (2" - 3") STANDARD DUCT FOR REINFORCED FIBERGLASS WITH MANUFACTURER'S LOGO PRINTED ON VAPOR BARRIER. ALL FLEXIBLE DUCT TO BE 4-6 1/2" WITH A MAX. TOTAL LENGTH NOT TO EXCEED 15 FEET. INSTALL UL LISTED FOR PLUMBING, FLEXIBLE DUCTWORK ELEVATOR SUPPORTS AT EACH DIFFUSER, GRILLE, AND REGISTER EITHER TO "FLEATHRIFT" BY TITUS OR "FLEATHRIFT ELEVATOR" AS MANUFACTURED BY TITUS.
- SPECIAL NOTE:**
1. S.M.A.C.N.A. DUCT PRESSURE CLASSES BASED ON OPERATING PRESSURE ARE: 1/2", 1", 2", 3", 4", 6", 8", AND 10". EACH DUCT SYSTEM SHALL BE CONSTRUCTED FOR THE SPECIFIC DUCT PRESSURE CLASS SHOWN ON PLANS. WHERE THE DESIGN CLASS IS GREATER THAN THE MANUFACTURER'S CLASS, THE DUCT SHALL BE CONSTRUCTED TO THE BASIS OF COMPLIANCE WITH THE S.M.A.C.N.A. STANDARDS REGARDLESS OF VELOCITY. WHERE NO PRESSURE CLASS IS SPECIFIED FOR VARIABLE VELOCITY SYSTEMS, 2" W/ PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE S.M.A.C.N.A. STANDARDS. ALL DUCTWORK INCLUDING ALL DUCTWORK SHALL BE SEALED TO S.M.A.C.N.A. THICK DUCT CONSTRUCTION STANDARDS FOR ITS PRESSURE CLASS SEALING METHODS.
- NONMETALLIC DUCTS SHALL BE CONSTRUCTED WITH CLASS 0 OR CLASS 1 DUCT MATERIAL, AND SHALL COMPLY WITH UL LISTED FOR AIR TEMPERATURE. WHEN NONMETALLIC DUCTS SHALL NOT EXCEED 250°F (121°C) PER FEI 2020 SEC. 603.5.
2. ALL EXHAUST DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED SHEET METAL WITH SEALED SEAMS AND JOINTS. ALL OUTSIDE AIR DUCT SHALL BE INSULATED WITH EXTERNAL BALANCED INSULATION R-8 MIN. ALL METAL DUCTWORK SHALL BE PROTECTED FROM CORROSION BY AN ANODES OR AN ANODES AS DETEMED IN THE SPECIFICATIONS. INSIDE THE DUCT SHALL BE EXTERNALLY INSULATED WITH R-8 MIN. AIR INTAKE AND EXHAUST OPENINGS SHALL BE SCHEDULED WITH A CORROSION RESISTANT MATERIAL. FEI 2020, TABLE 404.2, AND 500.1.2. LOUVERS THAT ARE USED FOR EXHAUST OR INTAKE OPENINGS SHALL BE INSULATED IN ACCORDANCE WITH THE SPECIFICATIONS. FLORIDA BUILDING CODE (BUILDING) SHALL COMPLY WITH A.M.C.A. STANDARD 550. OUTDOOR OPENINGS SHALL BE PROTECTED WITH SHALL MEET THE PROVISIONS FOR EXTERIOR WALL OPENING PROTECTIVES IN ACCORDANCE WITH THE FOLLOWING:
1. O/A INTAKES SHALL NOT BE TAKEN FROM A LOCATION LOWER THAN 10 FEET FROM ANY CHIMNEY, VENT OUTLET OR SENTRY SEWER VENT OUTLET PER FEI 2020, SEC. 401.4. OUTSIDE AIR INTAKE VENTS LOCATED ON ROOF OR PARTIALLY MARKED WITH A UNIVERSAL MARKING "INTAKE", PERMANENTLY ATTACHED.
2. DUCT SIZES SHOWN ON PLANS ARE INTERIOR DIMENSIONS.
3. ALL AIR DEVICES (DIFFUSERS, REGISTERS AND GRILLES) SHALL BE ALL ALUMINUM CONSTRUCTION WITH EXPOSED SURFACE OF WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY APPLICATOR. DEVICES SHALL BE AS SPECIFIED OR NOT TO THIS PRICE PER METAL/PURVE. PROVIDE OPPOSED BALANCE DAMPERS AT ALL DIFFUSERS AND REGISTERS AS NOTED ON PLANS. PROVIDE BALANCE DAMPERS FOR ALL SUPPLY AND RETURN DIFFUSERS AND REGISTERS AND TO ENSURE COMPLIANCE WITH FEI 2020, SEC. 601.5 FOR BALANCED RETURN/TRANSFER AIR FLOW.
4. ALL BRANCH TAKE-OFFS TO BE PROVIDED W/ MANUAL VALVE/VALVES. PROVIDE RADIIUS ELBOWS WHERE FEASIBLE. SMOKE ELBOWS AND TEES SHALL BE FURNISHED W/ SINGLE FOR TURNING VENTS. PROVIDE MANUAL VALVE/VALVES WITH EXTRACTOR AT ALL FLEX TAKE-OFFS. PROVIDE 1/2" MIN. RADIUS ELBOWS. OPERATED VALVE SHALL BE EASY TO ACCESSIBLE AND EASY TO OPERATE. PROVIDE 1/2" MIN. RADIUS ELBOWS AND TEES.
5. ALL DUCT INSULATION SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX NOT MORE THAN 50, WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

MECHANICAL SHEET INDEX

SHEET #	DESCRIPTION
M-1	MECHANICAL NOTES, LEGEND, INDEX & PLAN
M-2	MECHANICAL PLAN
M-3	MECHANICAL PLAN
M-4	MECHANICAL SCHEDULES & DETAILS

LEGEND

	NEW S/A CEILING DIFFUSER
	NEW R/A CEILING GRILLE
	EXISTING S/A CEILING DIFFUSER
	EXISTING R/A CEILING GRILLE
	VOLUME CONTROL DAMPER
	REDUCER OR INCREASER
	NEW FLEX DUCT
	NEW DUCT/WORK
	BELLMOUTH TAP
	CEILING EXHAUST FAN
	SUPPLY AIR DIFFUSER OR GRILLE DESIGNATION
	RETURN/EXHAUST AIR DIFFUSER OR GRILLE DESIGNATION
	EQUIPMENT TAG
	THERMOSTAT
	SUPPLY AIR
	RETURN AIR
	DOOR UNDER CUT

HVAC ABBREVIATION LEGEND

AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
CU	CONDENSING UNIT
EAG	EXHAUST AIR GRILLE
EF	EXHAUST FAN
EXH	EXHAUST
E/A	EXHAUST AIR
S/A	SUPPLY AIR
N	NEW
E	EXISTING
GR	GRILLE
R/A	RETURN AIR
RAG	RETURN AIR GRILLE
O/A	OUTSIDE AIR
M/A	MAKE-UP AIR
WMS	WIRE MESH SCREEN
CG	CEILING
BDD	BACK DRAFT DAMPER
RE	RELOCATED

EXHAUST AIR CALCULATIONS

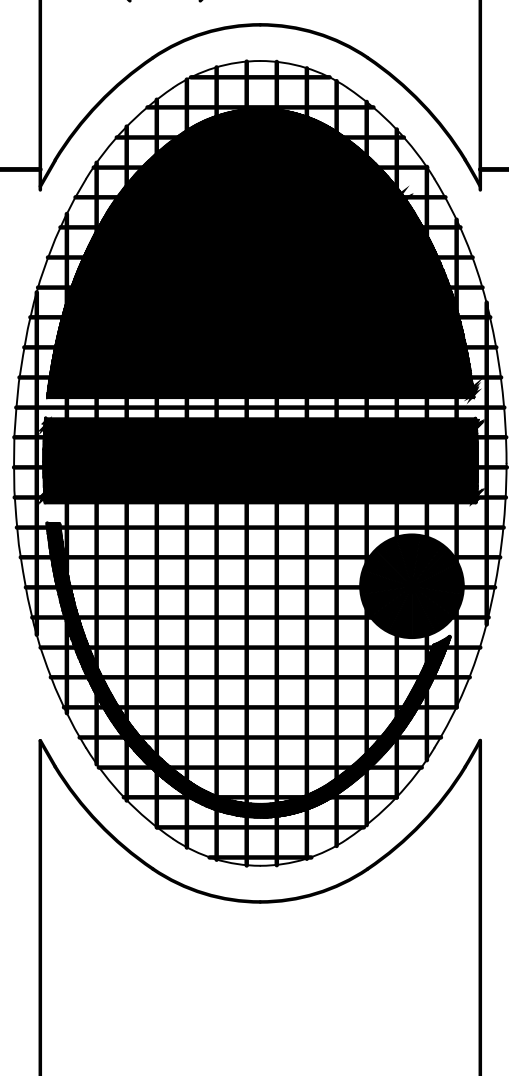
SPACE SERVED OR UNIT TAG	SPACE AREA (SQ.FT.)	SPACE HEIGHT (FT.)	SPACE VOLUME (CU.FT.)	VENT. REQ'D AC/HR OR CFM	TOTAL CFM REQUIRED	TOTAL CFM PROVIDED	EXHAUST FAN
GUEST ROOM #1 BATHROOM	32	-	-	50 CFM/K.C.	50	50	EF-1
NEW AND MASTER POWDER INL.	32	-	-	50 CFM/K.C.	50	50	EF-1
NEW AND MASTER SHOWER INL.	170	-	-	50 CFM/K.C.	50	50	EF-1
NEW POWDER INL.	32	-	-	50 CFM/K.C.	50	50	EF-1
NEW MASTER POWDER INL.	32	-	-	50 CFM/K.C.	50	50	FAN
NEW MASTER SHOWER INL.	135	-	-	50 CFM/K.C.	50	50	EF-1
NEW BATH #1 SHOWER INL.	81	-	-	50 CFM/K.C.	50	50	EF-1
NEW BATH #1 POWDER INL.	15	-	-	50 CFM/K.C.	50	50	EF-1
NEW BATHROOM #2	75	-	-	50 CFM/K.C.	50	50	EF-1
TOTAL	604.0				450.0	450.0	

NOTES:
1. EXHAUST FAN'S ARE BASED ON 100% ROOM EQUIVALENTS PER 2000 AMU PER HOUR

[illegible]

RENOVATION AND ADDITION
FOR:
CHRISTOPHER AND LISA MONTERO
LOCATED AT:
6445 SW 107 STREET
VILLAGE OF PINECREST, FLORIDA

J L D
ARCHITECT
CORPORATION
AA-26003440
8592 s.w. 169th terrace
miami, florida 33157
(305) 310-5992

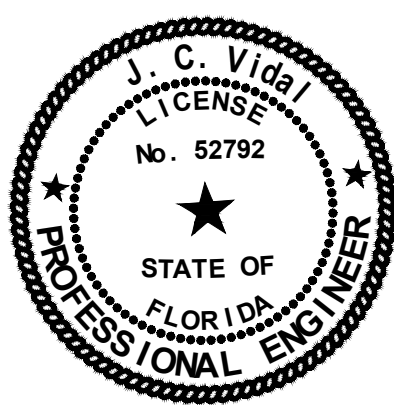


JOSE L. DIAZ, ARCHITECT
AR-0015547

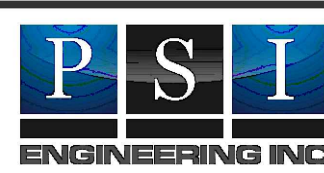
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CHECKED
DATE 11/14/22
SCALE
JOB NO.
SHEET

$$M-1 \}$$

OF SHEETS



THIS DRAWING HAS BEEN ELECTRONICALLY
SIGNED AND SEALED BY JULIO C. VIDAL PE.,
USING A DIGITAL SIGNATURE ON THE DATE
ADJACENT TO THE SEAL. PRINTED COPIES OF
THIS DOCUMENT ARE NOT CONSIDERED SIGNED
AND SEALED AND THE SIGNATURE MUST BE
VERIFIED ON ANY ELECTRONIC COPIES.



PSI
ENGINEERING INC

Engineer of Record: JULIO VIDAL PE
FLA REG # 52792
Project Manager: ROGER PEREZ

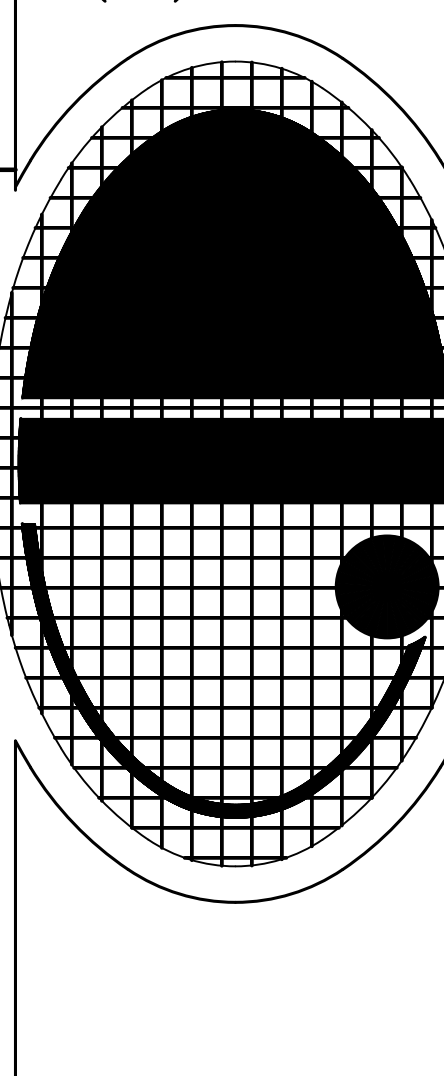
10556 NW 26 STREET, SUITE D-202 DORAL, FL 33172 PH: 786-615-7520, FAX: 786-752-3284
CERTIFICATE OF AUTHORIZATION # 30280 email: roger.perez@psieengineeringinc.com

10556 NW 26 STREET, SUITE D-202 DORAL, FL 33172 PH: 786-615-7520, FAX: 786-752-3284
CERTIFICATE OF AUTHORIZATION # 30280 email: roger.perez@psiengineeringinc.com

[illegible]

RENOVATION AND ADDITION
FOR:
CHRISTOPHER AND LISA MONTERO
LOCATED AT:
6445 SW 107 STREET
VILLAGE OF PINECREST, FLORIDA

J L D
ARCHITECT
CORPORATION
AA-26003440
8592 s.w. 169th terrace
miami, florida 33157
(305) 310-5992

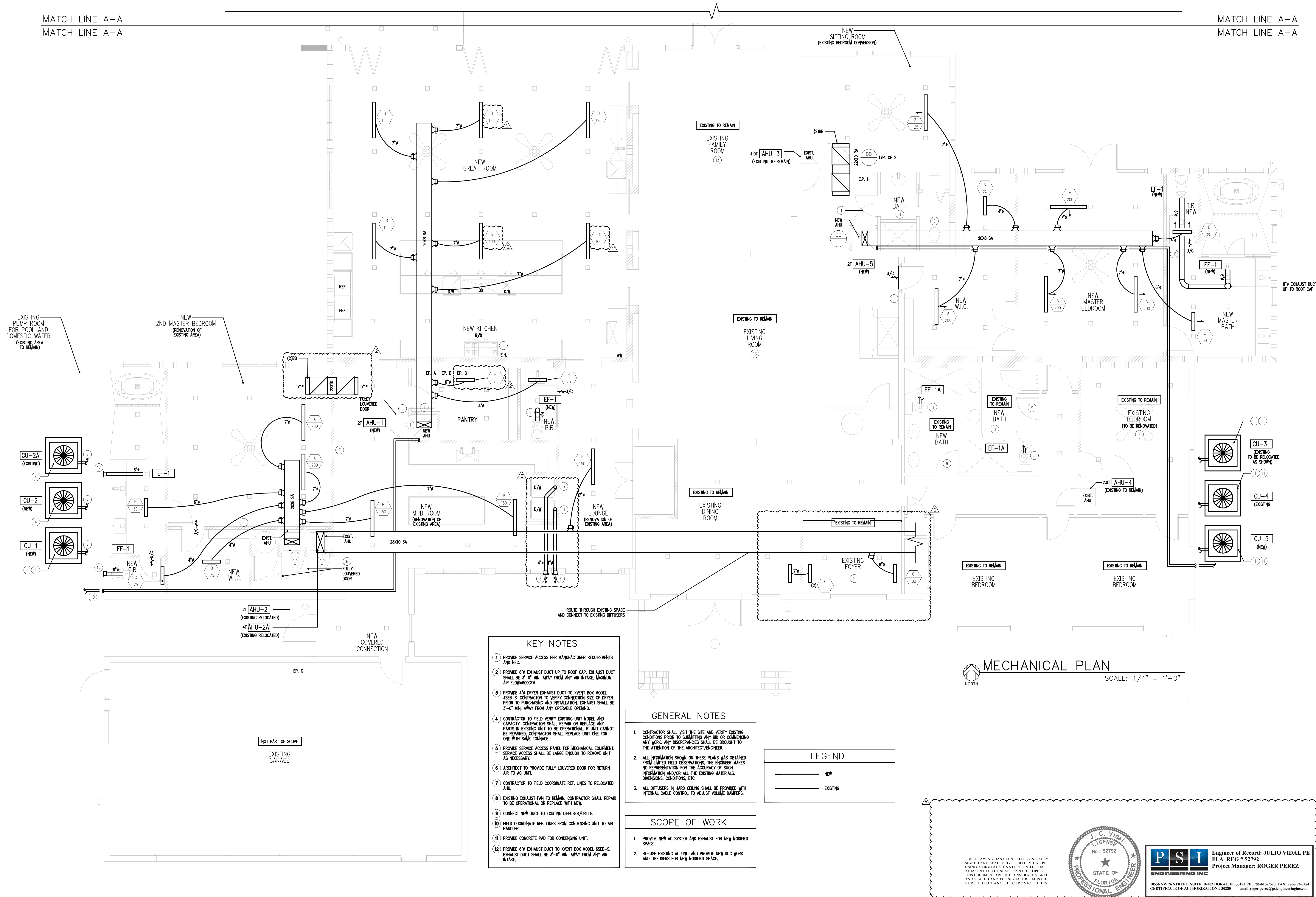


U2021.25, R2011 Magnolia St., E.D. Seal, Inc.

JOSE L. DIAZ, ARCHITECT
AR-0015547

DRAWN _____
CHECKED _____
DATE 11/14/22 _____
SCALE _____
JOB NO. _____
SHEET _____
M-2
OF SHEETS _____

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RENOVATION AND ADDITION
FOR:
CHRISTOPHER AND LISA MONTERO
LOCATED AT:
6445 SW 107 STREET
VILLAGE OF PINECREST FLORIDA

JOSE L. DIAZ, ARCHITECT
AR-0015547

DRAWN
CHECKED
DATE 11/14/22
SCALE
JOB NO.
SHEET
M-3
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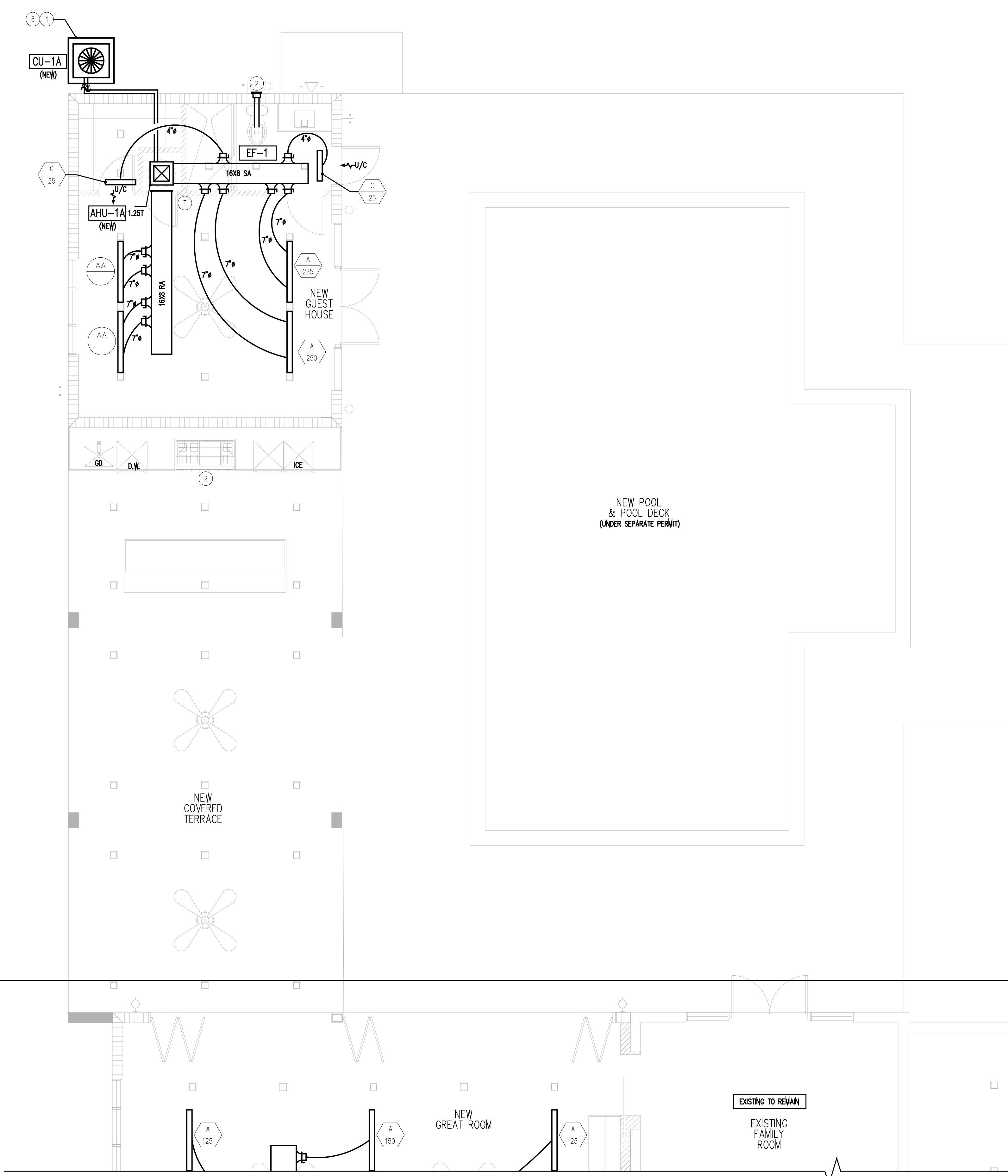
KEY NOTES

1. PROVIDE SERVICE ACCESS PER MANUFACTURER REQUIREMENTS AND NEC.
2. PROVIDE 6" EXHAUST DUCT UP TO ROOF CAP EXHAUST DUCT SHALL BE 3'-0" MIN. AWAY FROM ANY INTAKE
3. PROVIDE 6" DRYER EXHAUST DUCT TO EXISTENT BOX MODEL ASES-B. CONTRACTOR TO VERIFY CONNECTION SIZE OF DRYER PRIOR TO PURCHASING AND INSTALLATION. EXHAUST SHALL BE 3'-0" MIN. AWAY FROM ANY OPERABLE OPENING
4. CONTRACTOR TO FIELD VERIFY EXISTING UNIT MODEL AND CAPACITY. CONTRACTOR SHALL REPAIR OR REPLACE ANY PARTS IN EXISTING UNIT TO BE OPERATIONAL. IF UNIT CANNOT BE REPAIRED, CONTRACTOR SHALL REPLACE UNIT ONE FOR ONE WITH SAME TONNAGE.
5. PROVIDE SERVICE ACCESS PANEL FOR MECHANICAL EQUIPMENT. SERVICE ACCESS SHALL BE LARGE ENOUGH TO REMOVE UNIT AS NECESSARY.
6. ARCHITECT TO PROVIDE FULLY LOUVERED DOOR FOR RETURN AIR TO AC UNIT.
7. CONTRACTOR TO FIELD COORDINATE REFR. LINES TO RELOCATED AIR TO AC UNIT.
8. EXISTING EXHAUST FAN TO REMAIN. CONTRACTOR SHALL REPAIR TO BE OPERATIONAL OR REPLACE WITH NEW.
9. CONNECT NEW DUCT TO EXISTING DUFFLER/SPLIT.
10. FIELD COORDINATE REFR. LINES FROM CONDENSING UNIT TO AIR HANDLER.
11. PROVIDE CONCRETE PAD FOR CONDENSING UNIT.
12. PROVIDE 6" EXHAUST DUCT TO EXISTENT BOX MODEL ASES-B. EXHAUST DUCT SHALL BE 3'-0" MIN. AWAY FROM ANY INTAKE.

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING ANY BID OR COMMENCING ANY WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
2. ALL INFORMATION SHOWN ON THESE PLANS WAS OBTAINED FROM LIMITED FIELD OBSERVATIONS. THE ENGINEER MAKES NO REPRESENTATION FOR THE ACCURACY OF SUCH INFORMATION AND/OR ALL THE EXISTING MATERIALS, DIMENSIONS, CONDITIONS, ETC.
3. ALL DIFFUSERS IN HARD CEILING SHALL BE PROVIDED WITH INTERNAL CABLE CONTROL TO ADJUST VOLUME DAMPERS.

SCOPE OF WORK	
1.	PROVIDE NEW AC SYSTEM AND EXHAUST FOR NEW MODIFIED SPACE.
2.	RE-USE EXISTING AC UNIT AND PROVIDE NEW DUCTWORK AND DIFFUSERS FOR NEW MODIFIED SPACE.



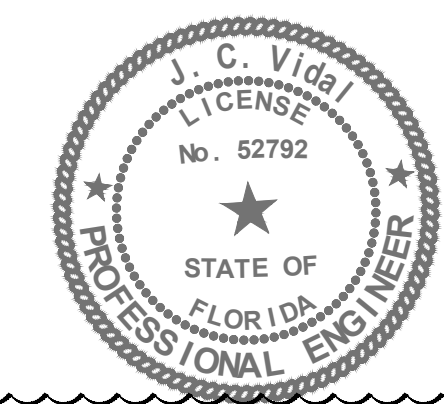
MATCH LINE A-A
MATCH LINE A-A

 MECHANICAL PLAN

NORTH

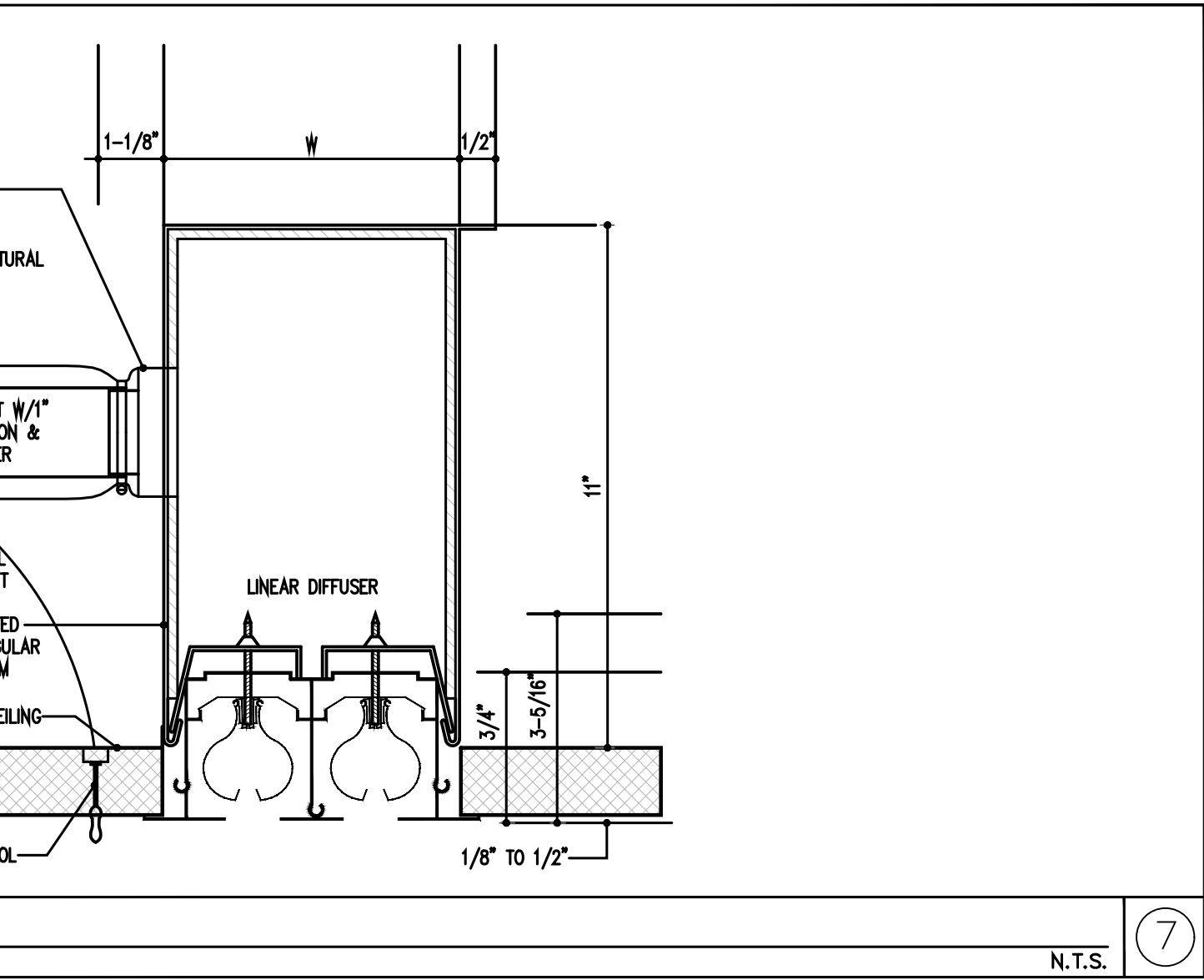
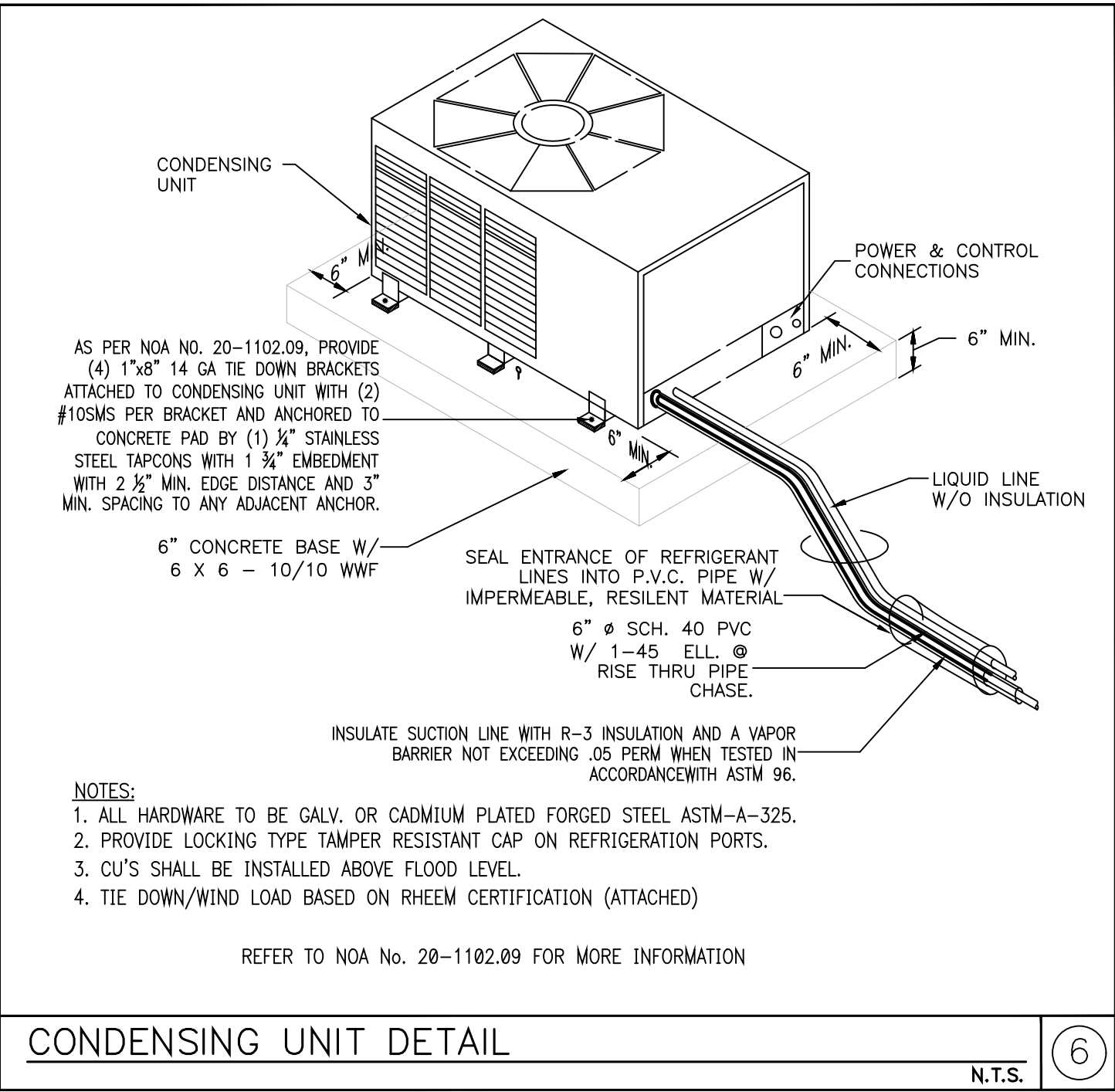
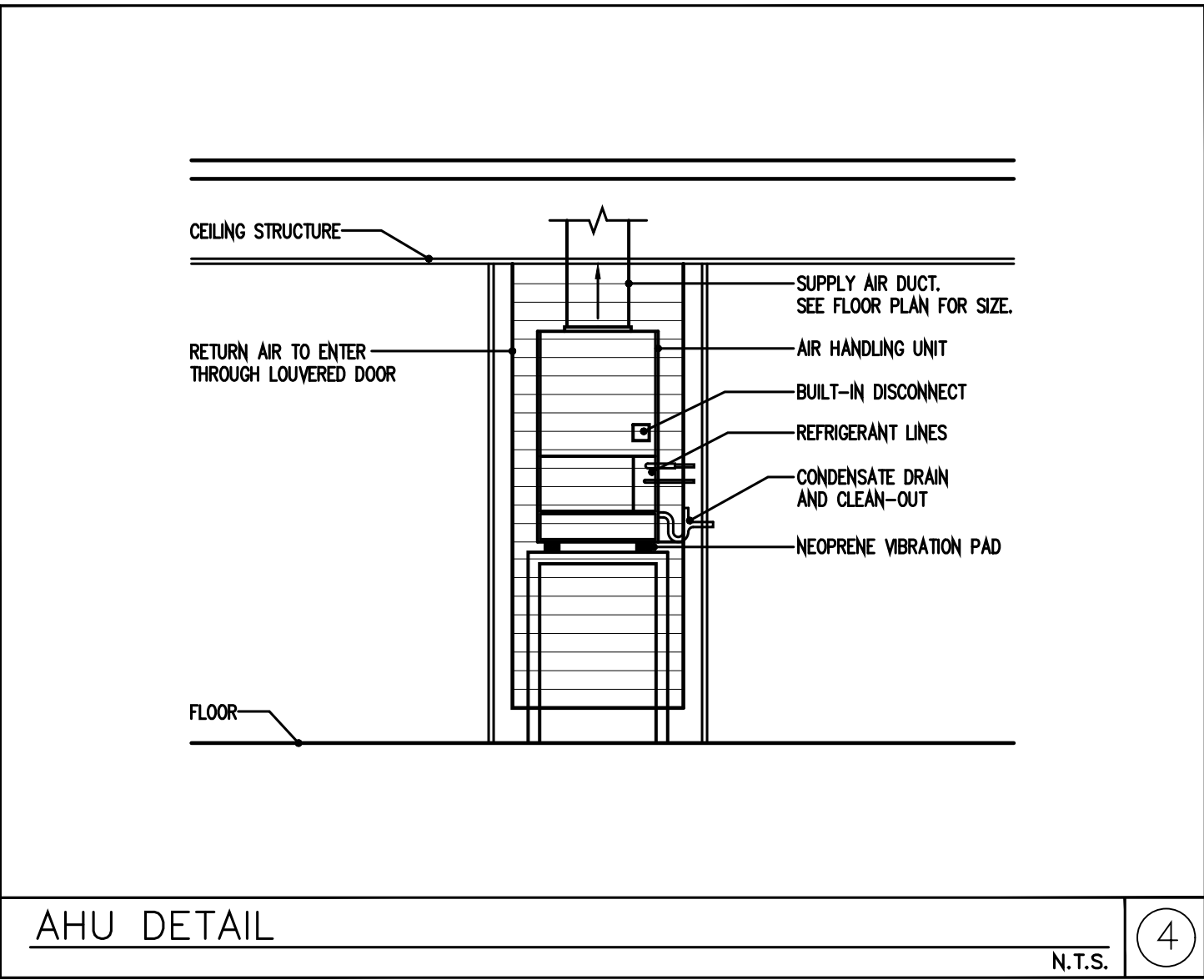
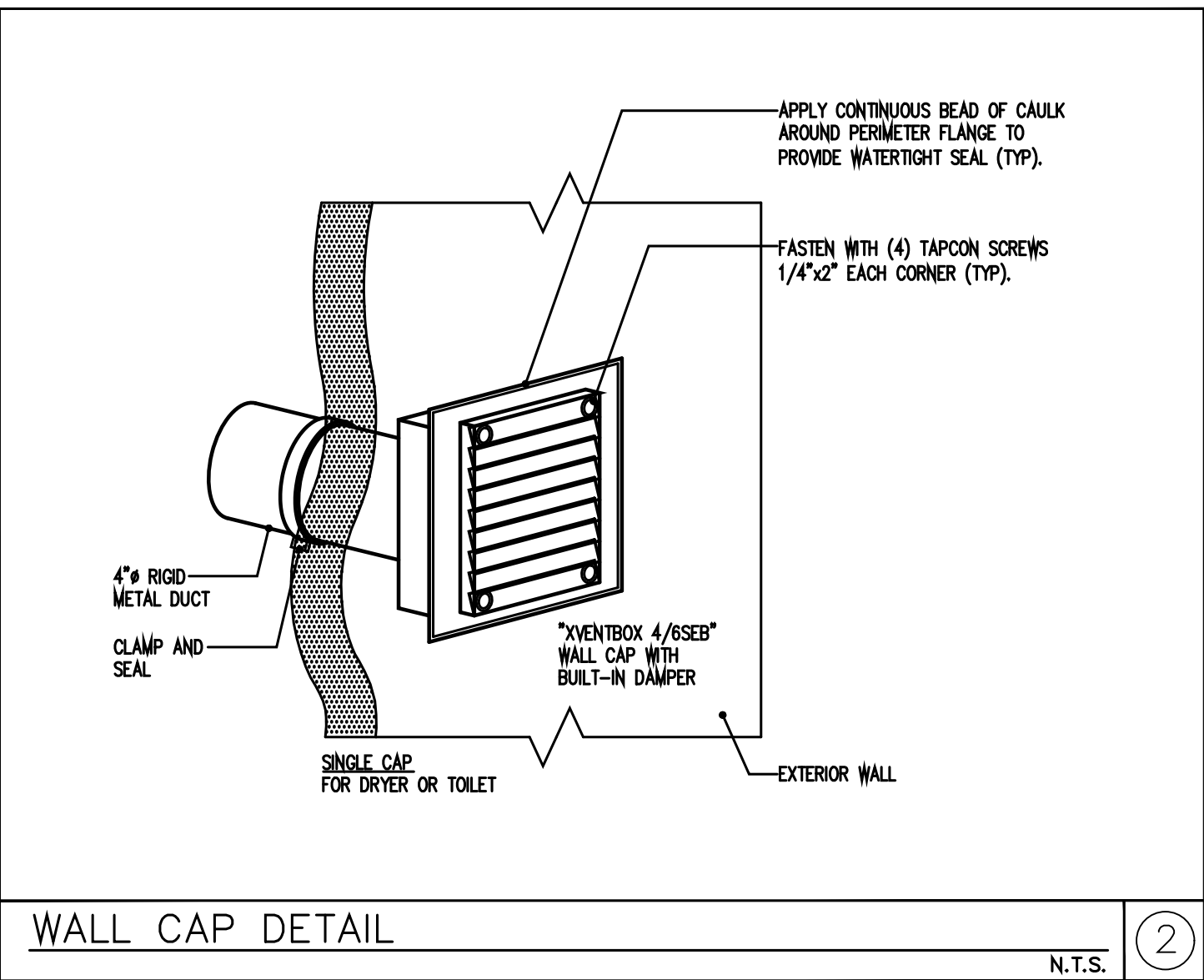
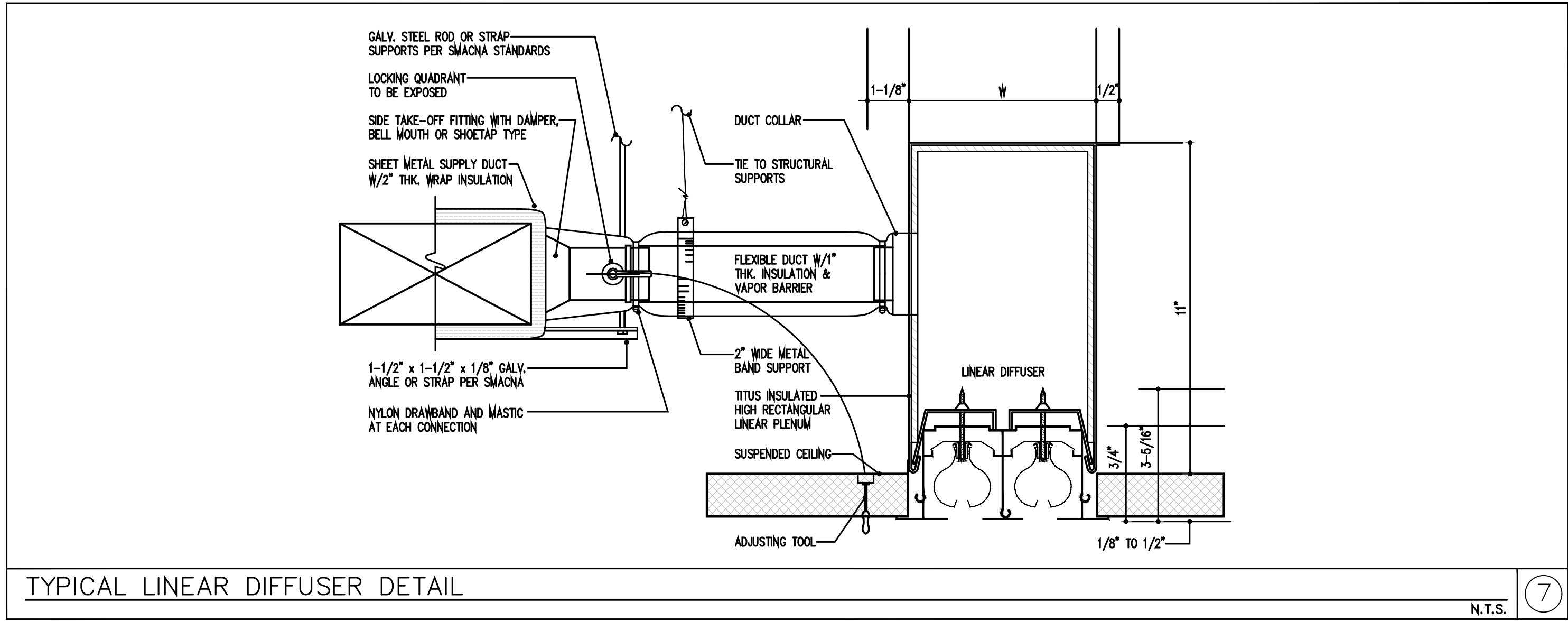
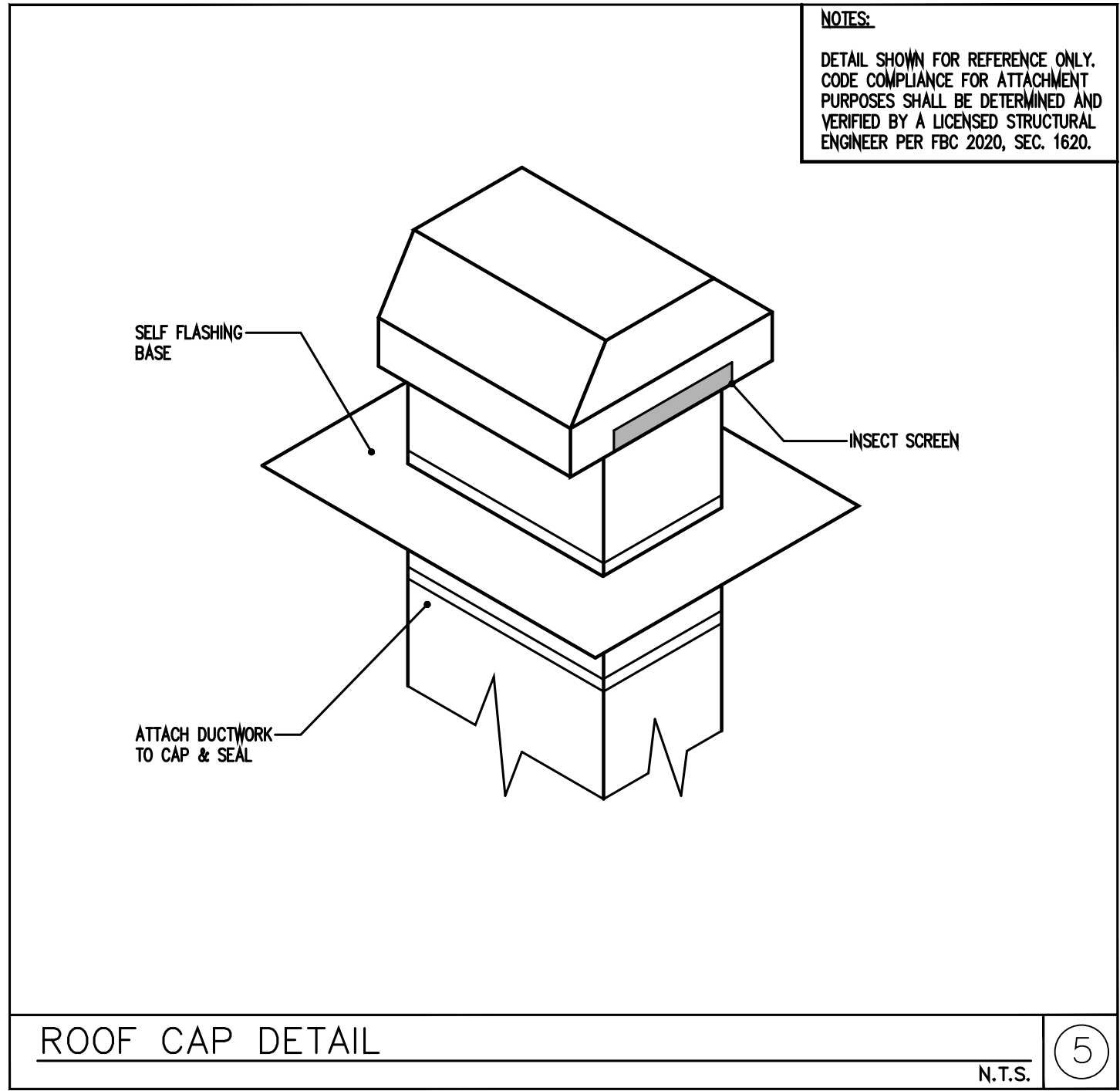
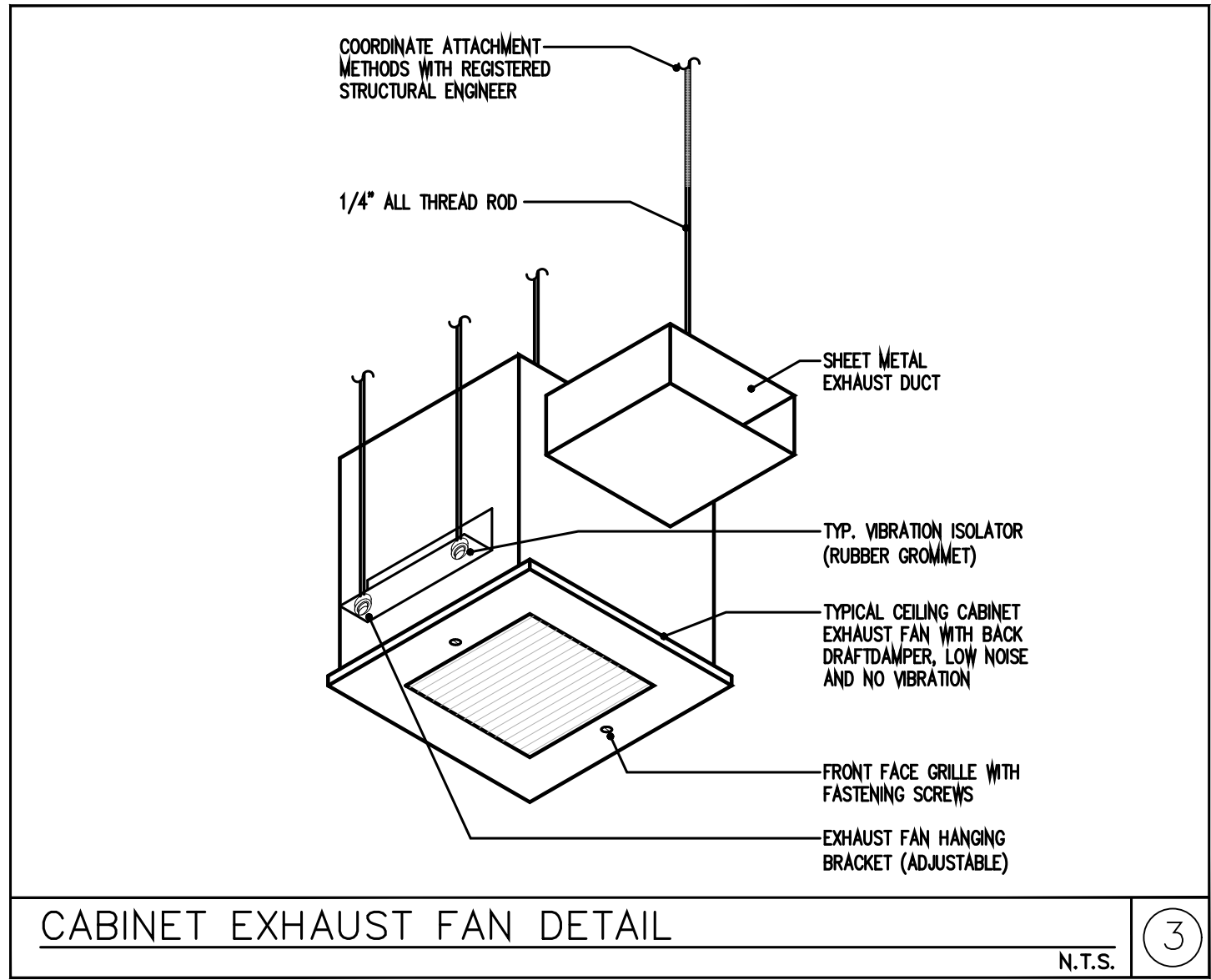
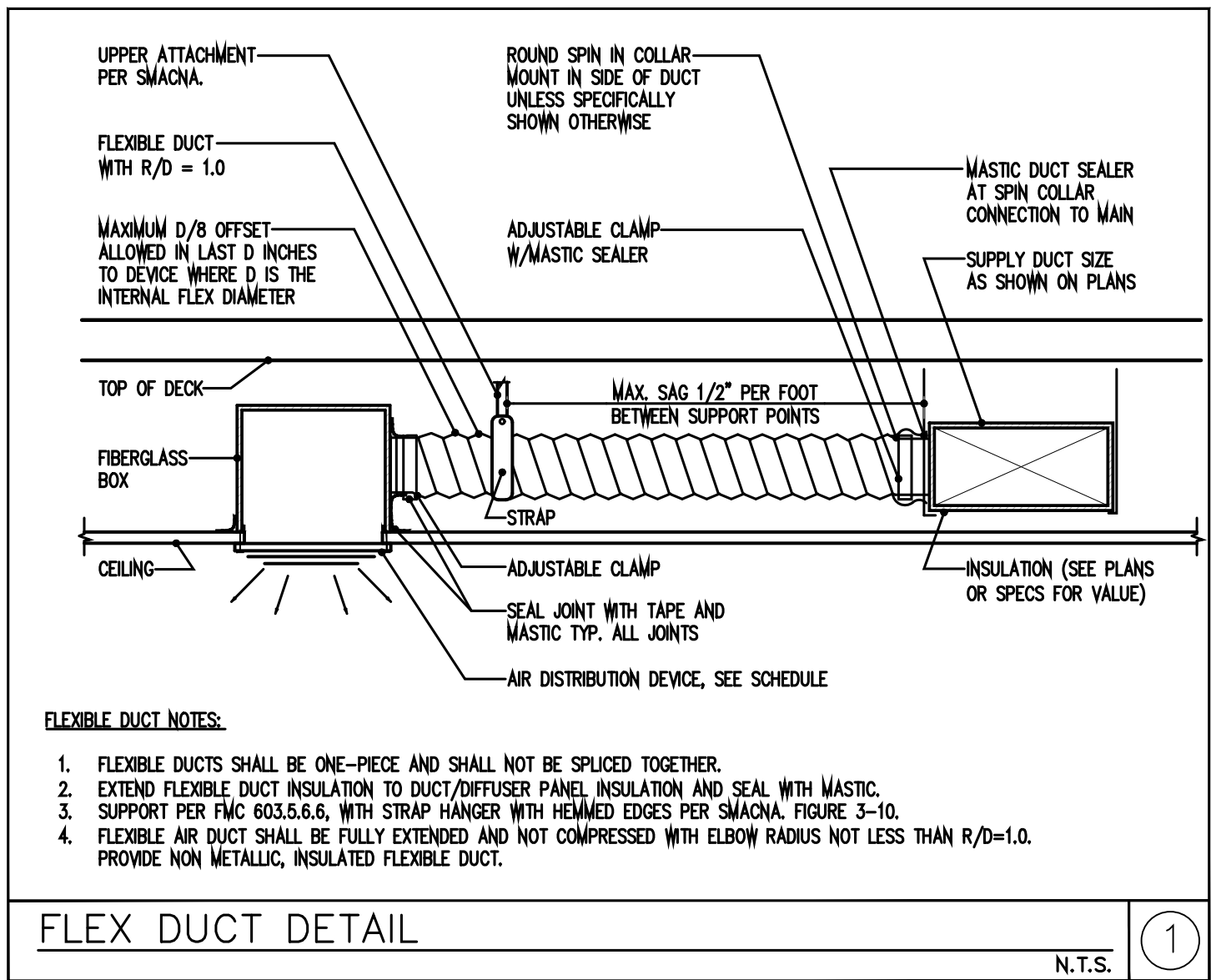
SCALE: $1/4" = 1'-0"$

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AC EQUIPMENT SCHEDULE																
CONDENSING UNIT																
CU TAG	MANUFACTURER & MODEL	NOMINAL TONNAGE	CAP. STAGES	(S)EER/(PLY)REFRIG./LBS	LIQ./SUCT.	NO. FANS	FAN FLA/(EA)	NO. COMP.	COMP. RLA (EA)	VOLTAGE/PH	MCA/MOCP	WEIGHT (LBS)	L x W x H (IN.)	NOTES	SERVICE AREA	
NEW CU-1A	TRANE-MITSUBISHI NTXSK515A12AA	1.25	1	19.0	R410A/-	SEE MANUAL	1	0.5	1-TWIN ROT.	7.4	208-230/1	10/18	81	12x32x22	SEE BELOW	NEW GUESS HOUSE
NEW CU-1	TRANE 4TRB024J	2.0	1	16.5	R410A/-	SEE MANUAL	1	0.64	1-CLIMATEUFF	10.1	200-230/1	13/20	162	33x30x29	SEE BELOW	NEW GREAT ROOM
NEW CU-2	TRANE 4TRB024J	2.0	1	16.5	R410A/-	SEE MANUAL	1	0.64	1-CLIMATEUFF	10.1	200-230/1	13/20	162	33x30x29	SEE BELOW	EXISTING WEST MASTER BEDROOM
EXISTING CU-2A	TRANE 4TRB046J	4.0	-	-	R410A/-	SEE MANUAL	1	-	-	-	SEE ELECT.	24/40	-	-	**	EXISTING MAIN HOUSE
EXISTING CU-3	TRANE 4TRB046J	4.0	-	-	R410A/-	SEE MANUAL	1	-	-	-	SEE ELECT.	24/40	-	-	**	EXISTING MAIN HOUSE
EXISTING CU-4	TRANE 4TRB036J	2.0	-	-	R410A/-	SEE MANUAL	1	-	-	-	SEE ELECT.	18/30	-	-	**	EXISTING MAIN HOUSE
NEW CU-5	TRANE 4TRB024J	2.0	1	16.5	R410A/-	SEE MANUAL	1	0.64	1-CLIMATEUFF	10.1	200-230/1	13/20	162	33x30x29	SEE BELOW	NEW EAST MASTER BEDROOM
AIR HANDLING UNIT																
AHU TAG	MANUFACTURER & MODEL	TOTAL MBH	SENSIBLE MBH	TOTAL CFM	O/A CFM	E.S.P. ("W.G.)	ENT. DB/°F	LEAV. DB/°F	ROWS/FPI	FAN HP/FLA	HEATER KW	VOLTAGE/PH	MCA/MOCP	WEIGHT (LBS)	L x W x H (IN.)	NOTES
NEW AHU-1A	TRANE-MITSUBISHI NTXSK515A12AA	15.0	12.9	525	-	.3	75/63	55/55	-/-	- / 0.74	18.0 MBH	208-230/1	1/(*)	54	28x39x8	SEE BELOW
NEW AHU-1	TRANE TEM40B24	22.8	17.7	800	-	.4	75/63	54.4/52.9	3/-	1/3 / 2.5	4.8 KW	240/1	28/30	117	22x19x47	SEE BELOW
NEW AHU-2	TRANE TEM40B24S15BA	22.8	17.7	800	-	.4	75/63	54.4/52.9	3/-	1/3 / 2.5	4.8 KW	240/1	28/30	117	22x19x47	SEE BELOW
EXISTING AHU-2A	TRANE TEM40B48H41SBA	48.0	36.0	1600	-	.4	75/63	55/55	-/-	3/4 / 6.8	SEE ELECT.	SEE ELECT.	SEE ELECT.	-	-	**
EXISTING AHU-3	TRANE TEM40B48H41SBA	48.0	36.0	1600	-	.4	75/63	55/55	-/-	3/4 / 6.8	SEE ELECT.	SEE ELECT.	SEE ELECT.	-	-	**
EXISTING AHU-4	TRANE TEM40C42S41SBA	42.0	31.0	1400	-	.4	75/63	55/55	-/-	1/2 / 4.10	SEE ELECT.	SEE ELECT.	SEE ELECT.	-	-	**
NEW AHU-5	TRANE TEM40B24	22.8	17.7	800	-	.4	75/63	54.4/52.9	3/-	1/3 / 2.5	4.8 KW	240/1	28/30	117	22x19x47	SEE BELOW
NOTES: 1. UNITS RATED PER ARI 210, 240 AND 270, APPROVED EQUAL: ARI, CARRIER, LENOX, TRANE, YORK. 2. PROVIDE WITH THERMAL EXPANSION VALVES, LIQUID LINE FILTER DRYER AND MULTI-USE SERVICE VALVES. 3. PROVIDE COMPRESSOR WITH CRANKCASE HEATER AND MIN. 5-YEAR WARRANTY. 4. PROVIDE HIGH AND LOW PRESSURE CONTROL AND OVER TEMPERATURE PROTECTION. 5. PROVIDE WEATHERPROOF ELECTRIC CONTROLS AND SINGLE SERVICE ACCESS. 6. PROVIDE SINGLE POINT POWER ENTRY AND HEAVY DUTY MODEL-CHROMIUM ELEMENT HEATER. 7. PROVIDE 1" THROUGH-WALL, MIN. 30% EFF. FILTER AND VIBRATION ISOLATION FOR AHU. 8. PROVIDE FACTORY MOUNTED FUSIBLE DISCONNECT/STARTER FOR AHU, COORDINATE PRIOR TO PURCHASING. 9. PROVIDE DISCONNECT FOR C.U. (INSTALLED BY ELECTRICAL) COORDINATE PRIOR TO PURCHASING. 10. PROVIDE FACTORY PROGRAMMABLE THERMOSTAT TO MATCH CAPACITY STAGES. 11. PROVIDE REFRIGERANT LINES SIZE AS RECOMMENDED BY MANUFACTURER, NOT TO EXCEED 150 FT. EQUIV. LENGTH FOR LONGER RUNS. 12. PROVIDE CONDENSATE PUMP AS REQUIRED. 13. PROVIDE CORROSION PROTECTION COATING FOR CONDENSER COIL WITH MIN. 5-YEAR WARRANTY COATING BY SURFSL, LUYATA, THERMOGUARD OR BYCOLD. 14. PROVIDE 3" AUXILIARY DRAIN PAN WITH AUTOMATIC SHUT OFF FLOAT SWITCH OR SENSOR SWITCH IN UNIT'S DRAIN PAN SECONDARY CONNECTION, EQUAL TO "WATER GARD". 15. AS APPLICABLE, MANUFACTURE AND INSTALLATION SHALL COMPLY W/IRC 301.12 FOR WIND RESISTANCE. (*) INDOOR UNIT POWERED BY OUTDOOR UNIT (**) EXISTING UNITS SHOWN FOR REFERENCE ONLY. REFRIGERATION LINE NOTE FOR INSTALLATION/RELOCATION: MECHANICAL CONTRACTOR SHALL COORDINATE ALL LIQUID & SUCTIONS LINES AND ACCESSORIES WITH MANUFACTURER PRIOR TO RELOCATION AND INSTALLATION. ALL LINE SIZES SHALL BE APPROVED BY MANUFACTURER PRIOR TO INSTALLATION AND CONTRACTOR SHALL COORDINATE FIELD CONDITION WITH LINE RUNS. COORDINATION NOTE FOR INSTALLATION/RELOCATION: MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND ACCESSORIES WITH ELECTRICAL CONTRACTOR PRIOR TO RELOCATING AND INSTALLATION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ENGINEER.																

EXHAUST FAN SCHEDULE													
SELECTION DATA				FAN DATA				MOTOR DATA					
TAG	SERVICE AREA	MANUF. (*)	MODEL	CONFIG.	CFM	ESP ("WG)	SONES	HP	RPM	DRIVE	VOLTAGE	WEIGHT (LBS)	GENERAL DATA
EF-1	1ST FL BATHROOM	GREENHECK	SP-80-VG	CEILING	50	.37	<0.3	6 WATTS	935	DIRECT	120V/60	12	11x11x8
EF-1A	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	CEILING	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	DIRECT	120V/60	MATCH EXISTING	MATCH EXISTING
ACCESSORIES NOTES: 1. PROVIDE GRILLE COLOR PER ARCH. SPECS. 2. PROVIDE BACK DRAFT DAMPER. 3. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH AND INTEGRAL THERMAL OVERLOAD PROTECTION, COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ANY PURCHASING. 4. PROVIDE BIRD SCREEN. 5. LOCATE BACK DRAFT DAMPER AT DISCHARGE. 6. SUPPORT FROM STRUCTURE COMPLETE WITH VIBRATION ISOLATORS. 7. PROVIDE ROOFCAP. 8. PROVIDE STEP DOWN TRANSFORMER FOR LIGHT INTERLOCK. (*) APPROVED EQUAL MANUFACTURER: COOK, TWIN-CITY, ARIE, NOTES: A. MOTOR STARTERS, FUSED DISCONNECTS AND ALL EQUIPMENT POWER WIRING PROVIDED BY ELEC. CONTRACTOR. B. MECHANICAL AND ELECTRICAL CONTRACTORS TO COORDINATE PRIOR TO ANY WORK AND PURCHASING. C. FIELD ADJUST OPENINGS WITH STRUCTURE. D. COORDINATE WITH ELECTRICAL CONTRACTOR BEFORE BIDDING OR ORDERING ANY EQUIPMENT. E. SEE PROJECT PLANS AND SPECIFICATIONS FOR OTHER FIELD SUPPLIED ITEMS AND ADDITIONAL INFORMATION. G. COORDINATE FINISH WITH ARCHITECT/OWNER.													

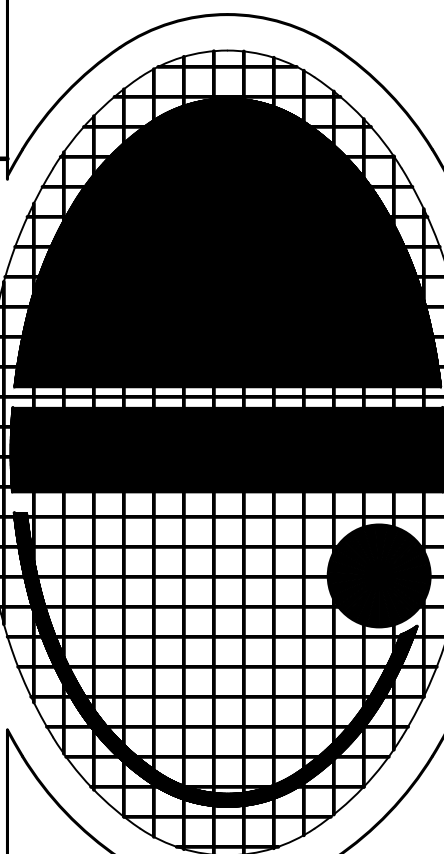
DIFFUSER/GRILLE SCHEDULE													
TAG SUPPLY													
TAG	MANUF. & MODEL	FACE SIZE	NECK SIZE	MATERIAL	FRAME	FINISH	DAMPER	THROW	NC	CFM RANGE	NOTES		
A	PRICE 47/AS/OPP	48" LONG	SEE SCHEDULE	ALUM.	SURFACE	OFF WHITE	NOTE #B	(2) 1" SLOTS	MAX. 30	SEE SCH.	SEE BELOW		
B	PRICE 47/AS/OPP	36" LONG	SEE SCHEDULE	ALUM.	SURFACE	OFF WHITE	NOTE #B	(2) 1" SLOTS	MAX. 30	SEE SCH.	SEE BELOW		
C	PRICE 47/AS/OPP	24" LONG	SEE SCHEDULE	ALUM.	SURFACE	OFF WHITE	NOTE #B	(1) 1" SLOTS	MAX. 30	SEE SCH.	SEE BELOW		
TAG RETURN													
AA	PRICE 47/RT/OPP	48" LONG	SEE SCHEDULE	ALUM.	SURFACE	OFF WHITE	NOTE #B	(2) 1" SLOTS	MAX. 30	SEE SCH.	SEE BELOW		
BB	PRICE 630	24 x 24	22 x 22	ALUM.	SURFACE	OFF WHITE	-	-	MAX. 30	SEE SCH.	SEE BELOW		
CC	PRICE 630	24 x 24	22 x 22	ALUM.	SURFACE	OFF WHITE	-	-	MAX. 30	SEE SCH.	SEE BELOW		
GENERAL NOTES: 1. PROVIDE SPIN-IN COLLAR WITH VOLUME DAMPER AT TRUNK TO FLEX DUCT CONNECTION (SEE DETAIL). 2. PROVIDE TYPICAL 4-WAY DIFFUSION, 2-WAY OR 3-WAY ONLY WHERE INDICATED ON PLANS. 3. REFER TO ARCHITECT PLANS FOR CEILING TYPE. 4. FINAL COLOR SELECTION SUBJECT TO ARCHITECT APPROVAL. 5. FLEX DUCT SIZE TO BE SAME AS DIFFUSER NECK SIZE. 6. PROVIDE INSULATION ON THE BACK OF DIFFUSER IF IN UNCONDITIONED SPACE. 7. PROVIDE VOLUME CONTROL DAMPERS FOR ALL RETURN GRILLES OR REGISTERS FOR BALANCED AIRFLOW. 8. PROVIDE INTERNAL CABLE CONTROL FOR DIFFUSERS IN HARD CEILINGS. (*) EQUIVALENT MANUFACTURER: TITUS, KRUEGER, AIRGUIDE, T & B, NALOR. CONTRACTOR SHALL VERIFY WITH ARCHITECT AND TENANT/OWNER, PRIOR TO ANY PURCHASING OR INSTALLATION, IF A BUILDING STANDARD HAS TO BE FOLLOWED REGARDING A SPECIFIC MODEL OR MANUFACTURER AND SHALL BRING ANY DISCREPANCY TO THE ATTENTION OF ENGINEER.													

S/A FLEX SCHEDULE	
60"	50-125 CFM
66"	130-200 CFM
106"	205-330 CFM
126"	335-450 CFM
146"	455-700 CFM

REVISION	BY
1. BDC 05/15/24	

RENOVATION AND ADDITION
FOR:
CHRISTOPHER AND LISA MONTERO
LOCATED AT:
6445 SW 107 STREET
VILLAGE OF PINECREST, FLORIDA

J.L.D.
ARCHITECT
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J. C. Vidal
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PROFESSIONAL ENGINEER

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CERTIFICATE OF AUTHORIZATION # 30280 email: roger.perez@psiengineeringinc.com

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