

1. ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TARPS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.
2. CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSED BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.
4. PROVIDE ALL NECESSARY TEMPORARY OR PERMANENT CAPS OR PLUGS FOR PIPING. DO NOT LEAVE PIPING OPEN ENDED.
5. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
6. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH THE LANDLORD AND ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK.
7. SUBMISSION OF PROPOSAL DIRECTLY OR INDIRECTLY IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH HE WILL BE OBLIGATED TO OPERATE SHOULD HE BE AWARDED THE WORK UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.
8. ALL WORK SHALL CONFORM TO ALL STATE AND LOCAL CODES, RULES AND REGULATIONS AND ORDINANCES.
9. CONTRACTOR SHALL SECURE AND PAY ALL FEES AND PERMITS PERTAINING TO THE CONTRACT.
10. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. THE CONTRACTOR SHALL PROVIDE ALL HANGERS AND SUPPORTS REQUIRED FOR A COMPLETE INSTALLATION.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR WORKMEN'S IDENTIFICATION AND BADGING, SAFETY AND FIRE PROTECTION, CONTRACTOR'S LIABILITY INSURANCE, BARRICADES, WARNING SIGNS, TRASH REMOVAL, CUTTING AND PATCHING.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING AND PROTECTION OF MATERIALS.
13. CONTRACTOR SHALL PROVIDE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT AND TRANSFER TO POINT OF INSTALLATION, OWNER FURNISHED ITEMS.
14. WHERE CONDUIT, CABLES, DUCTWORK OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE SLEEVES SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS UL LISTED AND ACCEPTED BY THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THIS SERVICE.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING AS IT RELATES TO HIS WORK.
16. CONTRACTOR SHALL REFER TO BUILDING MANAGEMENT'S RULES AND REGULATIONS TO COMPLY WITH BUILDING STANDARDS.
17. FLEXIBLE DUCTWORK LENGTHS SHALL NOT EXCEED 5'-0". USE INSULATED RIGID ROUND DUCTWORK WHERE REQUIRED. ALL NEW FLEXIBLE DUCTWORK CONNECTIONS TO AIR DEVICES SHOWN ON THE DRAWING SHALL BE SIZED ACCORDING TO THE NECK SIZE SCHEDULE.
18. THE ENTIRE AIR SUPPLY SYSTEM SHALL BE RE-BALANCED TO THE AIR QUANTITIES INDICATED ON THIS DRAWING BY AN INDEPENDENT AIR BALANCE CONTRACTOR. THE AIR BALANCE CONTRACTOR SHALL SUBMIT NEBB CERTIFIED AIR BALANCE REPORTS FOR ENGINEERING REVIEW AND TO BUILDING MANAGEMENT. PROVIDE AHU DRIVE ADJUSTMENTS AS REQUIRED.
19. REFER TO DRAWING MEP FOR SPECIFICATIONS THAT APPLY TO THIS SHEET.
20. CONTRACTOR SHALL VERIFY THAT SUFFICIENT RETURN AIR OPENINGS ARE PROVIDED IN EXISTING WALLS ABOVE CEILING. AIR IS RETURNED TO THE CEILING PLenum AND THEN TO THE AIR HANDLING UNITS THROUGH RETURN AIR GRILLES, ARCHITECTURAL CEILING OPENING AND LIGHT FIXTURES.
21. CONTRACTOR SHALL PROVIDE TO BUILDING OWNER THE AS-BUILT RECORD DRAWINGS AND THE OPERATING AND MAINTENANCE MANUALS WITHIN 90 DAYS OF SYSTEMS ACCEPTANCE. RECORD DRAWINGS SHALL INCLUDE PERFORMANCE DATA FOR EQUIPMENT, DUCT AND PIPE DISTRIBUTION SYSTEMS, AND AIR AND WATER FLOW RATES. O&M MANUALS SHALL INCLUDE EQUIPMENT, ACCESS AND OPTIONS REQUIRING SERVICE, REQUIRED MAINTENANCE ACTIVITIES, CONTACT INFO OF SERVICE AGENCIES, HVAC CONTROLS CALIBRATION INFORMATION AND SET-POINTS, AND DESCRIPTION OF EQUIPMENTS' INTENDED OPERATIONS.

CONDENSING UNIT				
MARK	CU-1	CU-2	CU-3	CU-4
VOLTS/PH/Hz	208/3/60	208/3/60	208/3/60	208/1/60
MCA/MOCP	20/25	20/25	14.4/20	7.8/15
SEER2/EER2	9/14.3	9/14.3	9/14.3	19/—
MANUFACTURER	RUUD	RUUD	RUUD	DAIKIN
MODEL NO.	RH2TY	RH2TY	RH2TY	RK12A
WEIGHT (LBS)	252	252	186	62
NOTES	1-13	1-13	1-13	1-13

NOTES:

1. REFRIGERANT TYPE IS R-454B.
2. COORDINATE WITH ELECTRICAL DRAWINGS FOR DISCONNECT AND ADDITIONAL ELECTRICAL REQUIREMENTS.
3. PROVIDE IECC COMPLIANT PROGRAMMABLE THERMOSTAT FOR AHU. T-STAT SHALL BE CALIBRATED TO DISPLAY SPACE TEMPERATURE AT $+/-$ 1°.
4. PROVIDE REQUIRED MAINTENANCE ACCESS PER MANUFACTURER FOR AHU IN PLENUM SPACE.
5. PROVIDE SUPPLY FAN WITH PREMIUM EFFICIENCY, ECM, VARIABLE-SPEED MOTOR.
6. PROVIDE STAINLESS STEEL DRAIN PAN.
7. PROVIDE OPTIONAL CONDENSATE PUMP.
8. PROVIDE PRIMARY AND AUXILIARY DRAIN LINES FROM UNIT TO NEAREST DRAIN DRAIN. SUPPORT PIPE FOR 1/8" PER FOOT SLOPE TO DRAIN.
9. ALL WORK SHALL COMPLY WITH BUILDING MANAGEMENT'S CONTRACTOR RULES AND REGULATIONS.
10. PROVIDE MOTORIZED DAMPER FOR OUTSIDE AIR INTAKE. DAMPER SHALL CLOSE WHEN UNIT IS DE-ENERGIZED.
11. PROVIDE ALL REFRIGERANT LINE ACCESSORIES AND SIZES PER MANUFACTURER.
12. PROVIDE A FACTORY-INSTALLED FLOAT SWITCH TO SHUTDOWN THE UNIT UPON HIGH WATER CONDITION.
13. PROVIDE CONDENSING UNIT ON THE GRADE.
14. ALTERNATE MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY MEET THE PERFORMANCE AND SPECIFICATIONS.

MARK	MANUF. + MODEL	TYPE	REMARKS
	TITUS OMNI	CEILING SUPPLY	24X24 PLAQUE FACE SUPPLY AIR DIFFUSER. FACE SHALL BE STEEL WITH A STEEL BACK PAN. FACE AND FRAME SHALL HAVE A WHITE ENAMEL FINISH. COORDINATE CEILING MOUNTING TYPE WITH ARCHITECTURAL CEILING TYPE. PROVIDE REMOTE DAMPER OPERATORS IN AREAS WITH INACCESSIBLE CEILINGS. 4-WAY THROW UNLESS OTHERWISE NOTED ON FLOOR PLANS. PROVIDE DIRECTIONAL BLOW CLIPS FOR DIFFUSERS DESIGNATED AS DIRECTIONAL.
	TITUS OMNI	CEILING RETURN /EXHAUST	24X24 PLAQUE FACE DIFFUSER. DIFFUSER TO HAVE 15" NECK OPEN TO THE PLENUM TO ACT AS A RETURN. COORDINATE CEILING MOUNTING TYPE WITH ARCHITECTURAL CEILING TYPE.
	TITUS 300RS	SIDEWALL SUPPLY	STEEL SIDEWALL SUPPLY REGISTER. DOUBLE-DEFLECTION, ADJUSTABLE BLADES AT 3/4" ON CENTER WITH FRONT BLADES PARALLEL TO THE SHORT DIMENSION. NECK SIZE AS INDICATED ON FLOOR PLANS. PROVIDE OPPOSED-BLADE DAMPER. COORDINATE MOUNTING TYPE WITH ARCHITECTURAL CEILING TYPE. COORDINATE FINISH WITH ARCHITECT.
	TITUS 350ZRL OR EQUAL	SIDEWALL RETURN	SIZE INDICATED ON THE PLAN WITH 3/4" SPACING FACE. FACE SHALL BE ALUMINUM. 35° DEFLECTION. BLADES SHOULD BE ANGLED UPWARDS. COORDINATE AND VERIFY THE STYLE AND COLOR WITH ARCHITECT PRIOR TO ORDER.

TOILET ROOM SHALL BE EXHAUSTED AT A MINIMUM 50 CFM/FIXTURE IN ACCORDANCE WITH THE CURRENT IMC.	
(WOMEN) 1 FIXTURE =	50 CFM
(MEN) 1 FIXTURE =	50 CFM
JANITOR = 35 SQ.FT. X 1 CFM/SQFT	35 CFM
TOTAL CFM REQUIRED	135 CFM
TOTAL CFM EXHAUSTED	345 CFM

MARK	EF-(1-3)	EF-4	-	-
SERVES	RESTROOMS	ATM	-	-
CFM	75	120	-	-
CEILING/DRIVE	CEILING/DIRECT	CEILING/DIRECT	-	-
S.P. IN. WG.	.35	.35	-	-
WATTS	20	24	-	-
RPM	1100	739	-	-
VOLTS/PHASE/HERTZ	120/1/60	120/1/60	-	-
MANUFACTURER	GREENHECK	GREENHECK	-	-
SERIES NO.	SP-A125	CSP-A250	-	-
NOTES	ALL	ALL	-	-

NOTES:

1. INTERLOCK FAN ON/OFF OPERATION WITH THE MOTION SENSOR SWITCH TO OPERATE WHEN SWITCH IS TURNED ON.
2. PROVIDE FAN WITH BACKDRAFT DAMPER, DISCONNECT SWITCH.
3. ALL FAN ONLY RUN INTERMITTENTLY.
4. BALANCE TO SCHEDULED CFM.
5. EF-3: CONNECT THE EXHAUST FAN TO THE SPACE THERMOSTAT. THE FAN SHALL BE ENERGIZED WHEN THE SPACE TEMPERATURE EXCEEDS 78°F (ADJUSTABLE SETPOINT).
6. ALTERNATE MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY MEET THE PERFORMANCE AND SPECIFICATIONS.

OUTSIDE AIR SHALL BE PROVIDED IN ACCORDANCE WITH CURRENT IMC:

$$(R_p \times P_z) + (R_a \times A_z) = V_{bz}$$

OFFICES: (5 CFM/PER x 17 PPL) + (0.06 CFM/SQ. FT x 2150 SQ. FT) = 214 CFM
CORRIDOR/UTILITIES: (- x -) + (0.06CFM/SQ. FT x 432 SQ. FT) = 26 CFM

OVERALL: $\frac{V_{bz}}{240 \text{ CFM}} \div \frac{E_z}{1} = \frac{V_{oz}}{240 \text{ C}}$

TOTAL OUTSIDE AIR REQUIRED = 240 CFM

AHU-(1-2): 150 CFM AHU-3: 100 CFM

TOTAL OUTSIDE AIR PROVIDED BY BUILDING = 400 CFM

SYMBOL	DESCRIPTION
	SUPPLY DUCT VIEW INTO DUCT
	SUPPLY DUCT VIEW HEEL OF ELBOW
	RETURN OR EXHAUST DUCT VIEW INTO DUCT
	RETURN OR EXHAUST DUCT VIEW HEEL OF ELBOW
	SQUARE TO ROUND TRANSITION
	SQUARE ELBOW WITH TURNING VANES.
	RADIUS ELBOW WITHOUT TURNING VANES.
	SUPPLY SIDEWALL REGISTER
	RETURN OR EXHAUST SIDEWALL REGISTER
	ROUND S.A. DIFFUSER
	EXISTING FLEX DUCT
	NEW FLEX DUCT
	EXISTING DUCTWORK
	NEW DUCTWORK
	DUCTWORK TO BE REMOVED
	SQUARE CEILING DIFFUSER
	RETURN AIR GRILLE
	RETURN OR EXHAUST AIR REGISTER W/ SQUARE NECK
	PLENUM SLOT DIFFUSER
	MANUAL DAMPER
	FIRE DAMPER WITH ACCESS DOOR
	DRAIN LINE
	PIPE RISING
	PIPE TURNING DOWN
	EXHAUST FAN SPEED CONTROL
	THERMOSTAT
(E)	EXISTING TO REMAIN
(R)	RELOCATED
R.A.	RETURN AIR
S.A.	SUPPLY AIR
C.F.M.	CUBIC FEET PER MINUTE
AHU	AIR HANDLER UNIT

NOTES:

1. ALL SYMBOLS MAY NOT BE USED ON THIS DRAWINGS.

CFM RANGE	SQUARE NECK SIZE	ROUND NECK SIZE
0 - 120	6 X 6	6"ø
125 - 220	8 X 8	8"ø
225 - 330	10 X 10	10"ø
335 - 450	12 X 12	12"ø
455 - 530	15 X 15	14"ø
540 - 700	16 X 16	16"ø

NOTES:

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The logo for SLI Group, Inc. features the letters "SLI" in a large, bold, black, stylized font. Below "SLI", the words "GROUP, INC." are written in a smaller, black, sans-serif font, separated by a thin horizontal line. A small registered trademark symbol (®) is located to the upper left of the "SLI" text.

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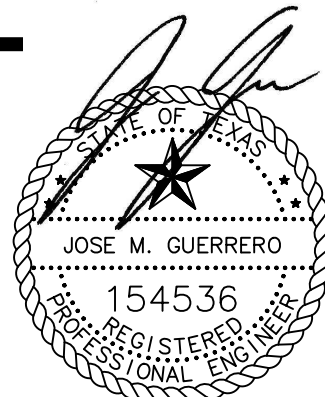
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SHEET NO

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