MECHANICAL GENERAL NOTES:

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. NO PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE LANDLORD AND/OR ENGINEER TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN, REMOVAL OR DISCONNECTION, SUFFICIENT ADVANCE NOTICE MUST BE GIVEN TO THE LANDLORD INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD OF TIME.
3. ALL ITEMS REMOVED SHALL BECOME PROPERTY OF THE LANDLORD AND SHALL BE DISPOSED OF AS PER THE LANDLORD'S INSTRUCTIONS, UNLESS INDICATED OTHERWISE. ALL ITEMS WHICH ARE NOT TO BE STORED ON SITE BY OWNERS SHALL BE REMOVED FROM THE BUILDING IMMEDIATELY.
4. THIS CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK. WHERE DISCREPANCIES OCCUR BETWEEN THESE DOCUMENTS AND EXISTING CONDITIONS, THE DISCREPANCY SHALL BE REPORTED TO THE LANDLORD AND/OR ENGINEER FOR EXPEDITING AND THE RESOLUTION.
5. 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.
6. USE OF THE LANDLORD'S ELEVATORS AND BUILDING CORRIDORS FOR HANDLING OF THE LANDLORD'S AND REMOVED EQUIPMENT AND MATERIALS SHALL BE AT THE DIRECTION OF THE LANDLORD AND SHALL BE COORDINATED WITH HIS OPERATIONS.
7. 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.
8. EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW SYSTEMS, EXCEPT WHERE INDICATED AS BEING RELOCATED.
9. PROVIDE ALL NECESSARY TEMPORARY OR PERMANENT CAPS OR PLUGS FOR PIPING. DO NOT LEAVE PIPING OPEN ENDED.
10. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
11. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH THE LANDLORD AND ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK.
12. 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.
13. ALL WORK SHALL CONFORM TO ALL STATE AND LOCAL CODES, RULES AND REGULATIONS AND ORDINANCES.
14. CONTRACTOR SHALL SECURE AND PAY ALL FEES AND PERMITS PERTAINING TO THE CONTRACT.
15. 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.
16. 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.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING AND PROTECTION OF MATERIALS.
18. CONTRACTOR SHALL PROVIDE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT AND TRANSFER TO POINT OF INSTALLATION, OWNER FURNISHED ITEMS.
19. 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.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING AS IT RELATES TO HIS WORK.
21. CONTRACTOR SHALL REFER TO BUILDING MANAGEMENT'S RULES AND REGULATIONS' TO COMPLY WITH BUILDING STANDARDS.
22. 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.
23. 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.
24. REFER TO DRAWING MEP FOR SPECIFICATIONS THAT APPLY TO THIS SHEET.
25. 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.
26. EXISTING TAPS TO SUPPLY DUCTWORK SHALL BE USED WHERE POSSIBLE. ANY UNUSED TAPS TO EXISTING SUPPLY DUCTWORK SHALL BE CAPPED, SEALED AIRTIGHT, AND INSULATED.
27. EXISTING MAIN TRUNK SUPPLY DUCTWORK SHALL REMAIN. CONTRACTOR SHALL VERIFY EXISTING LOCATION AND LIGHTING FIXTURE CLEARANCES AND INCLUDE IN THEIR COST THE RELOCATION OR REMOVAL OF EXISTING EQUIPMENT REQUIRED TO COMPLY WITH THIS DRAWING.
28. 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 AND ASSOCIATED OPTIONS REQUIRING SERVICE, REQUIRED MAINTENANCE ACTIVITIES, CONTACT INFO OF SERVICE AGENCIES, HVAC CONTROLS CALIBRATION INFORMATION AND SET-POINTS, AND DESCRIPTION OF EQUIPMENTS' INTENDED OPERATIONS.
29. FOR RETURN AIR PLENUMS, ALL MATERIALS LOCATED WITHIN A RETURN AIR PLENUM SHALL BE RATED AND APPROVED FOR INSTALLATION IN A RETURN AIR PLENUM.

SPLIT DX SYSTEM SCHEDULE

MARK	AHU-1	AHU-2	AHU-3	AHU-4
SERVES	OFFICES	OFFICE	CONFERENCE	IT
TOTAL CFM	1,520	1,800	1,400	405
OUTSIDE AIR (CFM)	110	110	110	NA
EXT. SP. (IN. WG)	0.7	0.7	0.7	0.3
AMBIENT TEMP. (DEG F)	105	105	105	105
EAT DB / WB	76.38/64.05	76.22/63.82	76.49/64.18	75.77/63.38
LAT DB / WB	55/54.57	55/54.90	55/54.53	55/54.45
SENSIBLE HEAT (BTUH)	35.6K	41.9K	33K	7.5K
TOTAL HEAT (BTUH)	42.9K	47.8K	40.2K	10.5K
HEATING	41K	47.6	38K	NA
HEATING COIL (KW)	12	14	11	NA
HORSEPOWER	–	–	–	–
VOLTS/PH/HZ	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
MCA/MOCP	6.5/15	8.6/15	6.5/15	0.4/15
MANUFACTURER	DAIKIN	DAIKIN	DAIKIN	DAIKIN
MODEL NO.	FXTA48AA	FXTA54AA	FXTA42AA	FXAA12AA
WEIGHT (LBS)	144	165	144	27
CONDENSING UNIT				
MARK	CU-1	CU-2	CU-3	CU-4
VOLTS/PH/HZ	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
MCA/MOCP	29.4/30	34.6/35	29.4/30	19.8/20
ADD'L REFRIGERANT	6.9	7.3	6.9	6.1
SEER2/HSPF2	20/9.5	20.5/9.5	20/9.5	23.3/9.6
MANUFACTURER	DAIKIN	DAIKIN	DAIKIN	DAIKIN
MODEL NO.	RXTA48AA	RXTA60AA	RXTA48AA	RXTA24AA
WEIGHT (LBS)	220.5	220.5	220.5	220.5
NOTES	1-13	1-13	1-13	1-13

NOTES:
1. REFRIGERANT TYPE IS R-32.
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°F.
4. PROVIDE REQUIRED MAINTENANCE ACCESS PER MANUFACTURER FOR AHU IN PLENUM SPACE. ALL UNIT WILL BE INSTALLED AS HIGHEST AS POSSIBLE.
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 FLOOR 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. INTERLOCK AHU-1,2,3 WITH THE SF-1 AND THE STATIC PRESSURE CONTROL.
12. PROVIDE ALL REFRIGERANT LINE ACCESSORIES AND SIZES PER MANUFACTURER.
13. PROVIDE A FACTORY-INSTALLED FLOAT SWITCH TO SHUTDOWN THE UNIT UPON HIGH WATER CONDITION.
14. PROVIDE CONDENSING UNIT ON THE ROOF.
15. ALTERNATE MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY MEET THE PERFORMANCE AND SPECIFICATIONS.

OUTSIDE AIR ANALYSIS

OUTSIDE AIR SHALL BE PROVIDED IN ACCORDANCE WITH CURRENT IMC:

(Rp x Pz) + (Ra x Az) = Vbz

OFFICES: (5 CFM/PER x 15 PPL) + (0.06 CFM/SQ. FT x 2,541 SQ. FT) = 228 CFM
CORRIDOR/ULTILITIES: (– x –) + (0.06CFM/SQ. FT x 845 SQ. FT) = 51 CFM

OVERALL: Vbz / Ez = Voz
279 CFM / 1 = 279 CFM

TOTAL OUTSIDE AIR REQUIRED = 279 CFM

AHU-1&2: 140 CFM AHU-3: 50 CFM

TOTAL OUTSIDE AIR PROVIDED BY BUILDING = 330 CFM

TOILET EXHAUST SYSTEM ANALYSIS:

TOILET ROOM SHALL BE EXHAUSTED AT A MINIMUM 50 CFM/FIXTURE IN ACCORDANCE WITH THE CURRENT IMC.

WOMEN'S (2 FIXTURES) = 100 CFM
MEN'S (2 FIXTURES) = 100 CFM

TOTAL CFM REQUIRED 200 CFM

TOTAL CFM EXHAUSTED 330 CFM

AIR DEVICE SCHEDULE

MARK	MANUF. + MODEL	TYPE	REMARKS
	TITUS OMNI OR EQUAL	CEILING SUPPLY	24X24, 12X12 SQUARE PLAQUE FACE SUPPLY AIR DIFFUSER. FACE SHALL BE STEEL WITH A STEEL BACK PAN. FACE AND FRAME SHALL HAVE A WHITE ENAMEL FINISH. BACK PAN SHALL BE PAINTED BLACK. COORDINATE CEILING MOUNTING TYPE WITH ARCHITECTURAL CEILING TYPE. PROVIDE REMOTE DAMPER OPERATORS IN AREAS WITH INACCESSIBLE CEILINGS.
	TITUS OMNI OR EQUAL	CEILING RETURN /EXHAUST	24x24, 12x12 SQUARE PLAQUE FACE. FACE SHALL BE ALUMINUM WITH A STEEL BACK PAN. FACE AND FRAME SHALL HAVE A WHITE ENAMEL FINISH. COORDINATE CEILING MOUNTING TYPE WITH ARCHITECTURAL CEILING TYPE.
	TITUS FLOWBAR WHERE NOTED ON FLOOR PLAN	CEILING SUPPLY DRYWALL	CONTINUOUS FLOWBAR SUPPLY DIFFUSER IN DRYWALL CEILING. BORDER TYPE 22. ONE 1.5" SLOT. PROVIDE 48" SUPPLY PLENUM AS INDICATED ON FLOOR PLANS. ANY UNUSED SECTION OF SLOT SHALL BE COVERED WITH RETURN AIR HOOD WITH LIGHT SHIELD.
	BUILDING STANDARD OR TBDI-10	CEILING SUPPLY CONFERENCE ROOM	48" LONG SUPPLY DIFFUSER WITH AN EXTRUDED ALUMINUM, ADJUSTABLE AIR OUTLET DESIGNED TO DIRECT SUPPLY AIR DOWN THE WINDOWS. 2" WIDTH, 1 SLOT. COORDINATE MOUNTING WITH CEILING TYPE.

FAN SCHEDULE

MARK	EF-1	SF-(1-3)	–	–
SERVES	RESTROOMS	AHU	–	–
CFM	330	110	–	–
TYPE/DRIVE	INLINE/DIRECT	INLINE/DIRECT	–	–
S.P. IN. WG.	.65	0.5	–	–
HP	85 (W)	31 (W)	–	–
RPM	1,241	820	–	–
VOLTS/PHASE/HERTZ	120/1/60	120/1/60	–	–
MANUFACTURER	GREENHECK	GREENHECK	–	–
SERIES NO.	CSP-A700-VG	CSP-A250	–	–
NOTES	ALL	ALL	–	–

NOTES:
1. EF-1: WILL RUNN CONTINOUSLY DURING BUSINESS HOURS. PROVIDE FAN WITH BACKDRAFT DAMPER, DISCONNECT SWITCH.
2. BALANCE TO SCHEDULED CFM.
3. SF-1,2,3 SHALL BED INTERLOCKED WITH AHU-1,2,3 RESPECTIVE.
4. ALTERNATE MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY MEET THE PERFORMANCE AND SPECIFICATIONS.

LEGEND OF MECHANICAL SYMBOLS

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
MD	MANUAL DAMPER
	FIRE DAMPER WITH ACCESS DOOR
D	DRAIN LINE
	PIPE RISING
	PIPE TURNING DOWN
S	EXHAUST FAN SPEED CONTROL
T	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.

DIFFUSER NECK SIZE SCHEDULE

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

SCALE: N.T.S.

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PM	MECH	ELEC	PLBG	CHCK
JG	THV	JG	BM	JG

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E/B/E Project Number : 25026

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ISSUED FOR PERMIT	02/13/2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE
	90% REVIEW SET	2026/02/06
	ISSUED FOR PERMIT	2026/02/13

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STATE OF TEXAS
JOSE M. GUERRERO
154536
LICENSED PROFESSIONAL ENGINEER
02/13/2026

DRAWING TITLE
MECHANICAL INFORMATION SHEET

SHEET NO.
M0.01

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