



PROJECT INFORMATION

PROJECT NAME: RESEARCH 1 MCF TALOS TEM INSTALLATION	DATE COMPLETED: DECEMBER 18, 2025
PROJECT NUMBER: 25120004	PROJECT MANAGER: DJ THOMAS
PROJECT DESCRIPTION: MCF TALOS TEM INSTALLATION IN LAB 120 AT RESEARCH 1. EXISTING COMPRESSED AIR, PROCESSED CHILLED WATER, AND ELECTRICAL POWER SYSTEMS IN ROOMS 120, 121, AND UTILITY CORRIDOR 100I MODIFIED TO PREPARE FOR THE RELOCATION AND ADDITION OF ELECTRON MICROSCOPES AND THEIR ASSOCIATED REMOTE CHILLERS. THE EXISTING PROCESS CHILLED WATER SUPPLY AND RETURN LINES MODIFIED TO ACCOMMODATE THE RELOCATION OF ONE REMOTE CHILLER, AND THE ADDITION OF ANOTHER. NON-METALLIC FLEXIBLE HOSE AND BARB FITTINGS INSTALLED TO CONNECT THE SERVICE SIDE OF THE RELOCATED CHILLER TO THE NEW CHILLED WATER PIPING. ADDITIONAL ISOLATION AND BALANCING VALVES INSTALLED AS REQUIRED FOR PROPER SYSTEM CONTROL AND MAINTENANCE ACCESS. ALL EXPOSED INSULATION TEXTURED AND JACKETED. ELECTRICAL POWER MODIFICATIONS RELOCATED/PROVIDED AS REQUIRED TO ACCOMMODATE BOTH THE ELECTRON MICROSCOPES AND REMOTE CHILLERS. NEW AND RELOCATED BRANCH CIRCUITS PROVIDED TO SUPPORT EQUIPMENT.	

PROJECT IMAGES





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PROJECT COST	
DESIGN COST	\$ 9,000.00
ARCHITECT / ENGINEER / INTERIOR DESIGN	\$ 9,000.00
CONSTRUCTION COST	\$ 50,245.25
DIVISION 1 - GENERAL REQUIREMENTS (DUMPSTERS, ETC.)	\$ -
DIVISION 2 - EXISTING CONDITIONS	\$ -
DIVISION 3 - CONCRETE	\$ -
DIVISION 4 - MASONRY	\$ -
DIVISION 5 - METALS	\$ -
DIVISION 6 - WOOD, PLASTICS & COMPOSITES	\$ -
DIVISION 7 - THERMAL & MOISTURE PROTECTION	\$ -
DIVISION 8 - OPENINGS	\$ -
DIVISION 9 - FINISHES	\$ -
DIVISION 10 - SPECIALTIES	\$ -
DIVISION 11 - EQUIPMENT	\$ -
DIVISION 12 - FURNISHINGS	\$ -
DIVISION 13 - SPECIAL CONSTRUCTION	\$ -
DIVISION 14 - CONVEYING EQUIPMENT	\$ -
DIVISION 21 - FIRE SUPPRESSION	\$ -
DIVISION 22 - PLUMBING	\$ -
DIVISION 23 - HVAC	\$ 30,704.25
DIVISION 26 - ELECTRICAL	\$ 19,541.00
DIVISION 27 - COMMUNICATIONS	\$ -
DIVISION 28 - ELECTRONIC SAFETY & SECURITY	\$ -
DIVISION 31 - EARTHWORK	\$ -
DIVISION 32 - EXTERIOR IMPROVEMENT	\$ -
DIVISION 33 - UTILITIES	\$ -
MOVING	\$ -
COMMISSIONING	\$ -
GENERAL LIABILITY	\$ -
GENERAL CONDITIONS (STAFFING, ETC.)	\$ -
CONTRACTOR'S FEE (OVERHEAD & PROFIT)	\$ -
PAYMENT & PERFORMANCE BOND (NOT REQ'D IF UNDER \$100K)	\$ -
INFORMATION TECHNOLOGIES & RESOURCES COST	\$ -
UCF IT	\$ -
OFFICE OF INSTRUCTIONAL RESOURCES (OIR)	\$ -
FBO AND PERMITTING COST	\$ 5,286.18
BUILDING CODE OFFICE	\$ 1,110.00
STATE FIRE MARSHALL	\$ -
PROJECT MANAGEMENT FEES	\$ 4,176.18
FACILITIES OPERATIONS ALLOWANCE	\$ -
TOTAL PROJECT COST	\$ 64,531.43

PROJECT TIME		
START	PROJECT SUBMITTED BY CLIENT	1.75 MONTHS
	SPAA, F&S REVIEW	
	PM ASSIGNED	
	PM CONTACTS REQUESTER	
	PM DEVELOPS SCOPE	
DESIGN	A/E SELECTED	1.25 MONTHS
	A/E PROPOSAL REVIEW	
	MPP TO CLIENT	
	CLIENT APPROVAL AND FUNDING	
	REQUISITION GENERATED	
	PO ISSUED (NOTICE TO PROCEED)	
	A/E DESIGN	
	WORKSHOPS	
PERMIT REVIEWS		
BID/PERMIT	S/S PERMIT DRAWINGS RECV'D	2.25 MONTHS
	PERMIT SUBMISSION	
	BUILDING CODE OFFICE REVIEW	
	STATE FIRE MARSHALL REVIEW	
	CONTRACTOR WALK-THROUGH	
	CONTRACTOR BID	
	PM REVIEWS BID	
	AVP F&S APPROVAL OF BID	
	PM PREPARES MPP	
	MPP TO CLIENT	
	CLIENT APPROVAL AND FUNDING	
REQUISITION GENERATED		
PO ISSUED (NOTICE TO PROCEED)		
CONSTRUCTION	CONSTRUCTION STARTS	3.75 MONTHS
	RFIS, SUBMITTALS, DOCUMENTS	
	PROGRESS REVIEWS	
	PAYMENT APPLICATIONS, INVOICES	
	INSPECTIONS	
	CERTIFICATE OF COMPLETION	
	CERTIFICATE OF OCCUPANCY	
BENEFICIAL OCCUPANCY BY CLIENT		
CLOSE-OUT	PUNCH LIST COMPLETION	2.5 MONTHS
	FINAL INVOICES	
	OWNER'S MANUALS	
	ASSET TURNOVER TO OPERATIONS	
ACCOUNTING CLOSE-OUT		
TOTAL PROJECT TIME - 11.5 MONTHS		