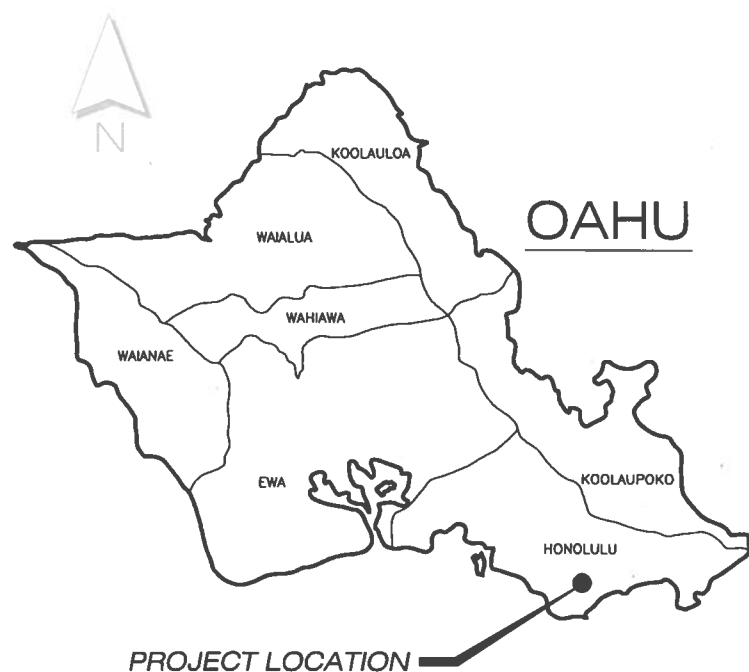


CA-202203-C1: ASBESTOS REMEDIATION & FLOOR REPLACEMENT AT BIRKHIMER EOC, OAHU

HONOLULU, OAHU, HAWAII
TMK: (1) 3-1-042:006 PORTION

STATE OF HAWAII
DEPARTMENT OF DEFENSE
HAWAII EMERGENCY MANAGEMENT AGENCY

LOCATION MAP



APPROVED


CPT SHAOYU LEE
CHIEF ENGINEERING OFFICER, DOD
DEPARTMENT OF DEFENSE

3/23/22
DATE


LUKE MYERS (MEYERS)
ADMINISTRATOR, DOD, HI-EMA
DEPARTMENT OF DEFENSE
HAWAII EMERGENCY MANAGEMENT AGENCY

DATE


MG KENNETH HARA
ADJUTANT GENERAL, DOD
DEPARTMENT OF DEFENSE

3/28/22
DATE

INDEX TO DRAWINGS

TITLE	DWG. NO.	SHT. NO.
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APPROXIMATE LOCATIONS OF FLOORING/MASTIC ABATEMENT/REMOVAL WORK	ENV-2	03

SUBMITTAL			
BID FINAL			
REVISION SCHEDULE			
REV #	DESCRIPTION	DATE	APPROVED
STATE OF HAWAII, DEPARTMENT OF DEFENSE HAWAII EMERGENCY MANAGEMENT AGENCY			
ASBESTOS REMEDIATION & FLOOR REPLACEMENT AT BIRKHIMER EOC, OAHU			
TITLE SHEET			
ELEMENT ENVIRONMENTAL, LLC	JOB NO.	DRAWING NO.	
DESIGNED BY BB	CHECKED BY RY	T-1	
DRAWN BY EL	APPROVED BY RY	DATE	SHEET
SCALE	AS INDICATED	MAR 17, 2022	1
			OF 3 SHEETS

BBALETE
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 190025 Drawings_EL_BB (1).dwg

WORK SCOPE

WORK SCOPE

WORK SCOPE AT BIRKHIMER EOC GENERALLY SHALL INCLUDE, BUT NO BE LIMITED TO, THE FOLLOWING:

SCOPE-OF-WORK BASE BID

1. REMOVAL OF NON-ASBESTOS-CONTAINING CARPET/MASTIC OVER NON-ASBESTOS-CONTAINING FLOORING/MASTIC IN THE ADMINISTRATION/RECEPTION AND PACIFIC DISASTER CENTER (CORRIDOR/TELECOMM) AREAS (BASE BID) AND ENCAPSULATION OF THE BARE AREA IN PREPARATION FOR OTHER TRADES. REFER TO THE SAMPLING RESULTS AND ATTACHED DRAWINGS AND SPECIFICATIONS. AFTER RECEIPT OF CLEARANCE FROM THE PROJECT MONITOR, FURNISH AND INSTALL NEW NON-ASBESTOS CONTAINING VINYL FLOOR TILES IN THE AREAS MENTIONED ABOVE.

- a. VINYL TILE: DEJA NEW SMOOTH CONCRETE (OR APPROVED EQUIVALENT)
- b. COLOR: ANTHRACITE
- c. TILE SIZE: 24 X 24
- d. INCLUDE RUBBER TRANSITIONS ON ALL PERIMETERS AND DOORWAYS

2. SCOPE-OF-WORK ADDENDUM ALT. 1: REMOVAL OF NON-ASBESTOS-CONTAINING CARPET/MASTIC OVER ASBESTOS-CONTAINING MASTICS IN THE OFFICES/CUBICLES AREA (ADD-ALT 1), AND ENCAPSULATION OF THE BARE AREA IN PREPARATION FOR OTHER TRADES. REFER TO THE SAMPLING RESULTS AND ATTACHED DRAWINGS AND SPECIFICATIONS. AFTER RECEIPT OF CLEARANCE FROM THE PROJECT MONITOR, FURNISH AND INSTALL NEW NON-ASBESTOS CONTAINING VINYL FLOOR TILES IN THE AREAS MENTIONED ABOVE.

- a. VINYL TILE: DEJA NEW SMOOTH CONCRETE (OR APPROVED EQUIVALENT)
- b. COLOR: ANTHRACITE
- c. TILE SIZE: 24 X 24
- d. INCLUDE RUBBER TRANSITIONS ON ALL PERIMETERS AND DOORWAYS

3. SCOPE-OF-WORK ADDENDUM ALT. 2: REMOVAL OF NON-ASBESTOS-CONTAINING CARPET/MASTIC (SIMILAR TO CARPET IN THE BASE BID) IN THE OFFICES/CUBICLES (ADD-ALT 2) AND ENCAPSULATION OF THE BARE AREA IN PREPARATION FOR OTHER TRADES. REFER TO ATTACHED DRAWINGS AND SPECIFICATIONS. AFTER RECEIPT OF CLEARANCE FROM THE PROJECT MONITOR, FURNISH AND INSTALL NEW NON-ASBESTOS CONTAINING VINYL FLOOR TILES IN THE AREAS MENTIONED ABOVE.

- a. VINYL TILE: DEJA NEW SMOOTH CONCRETE (OR APPROVED EQUIVALENT)
- b. COLOR: ANTHRACITE
- c. TILE SIZE: 24 X 24
- d. INCLUDE RUBBER TRANSITIONS ON ALL PERIMETERS AND DOORWAYS

4. SCOPE-OF-WORK ADDENDUM ALT. 3: REMOVAL OF NON-ASBESTOS-CONTAINING SHEET FLOORING AND MASTIC AT THE CORRIDOR (ADD-ALT 3) BETWEEN THE BACK ENTRY HALLWAY AND OFFICES/CUBICLES AND ENCAPSULATION OF THE BARE AREA IN PREPARATION FOR OTHER TRADES. REFER TO SAMPLING RESULTS AND ATTACHED DRAWINGS AND SPECIFICATIONS. AFTER RECEIPT OF CLEARANCE FROM THE PROJECT MONITOR, FURNISH AND INSTALL NEW NON-ASBESTOS CONTAINING VINYL FLOOR TILES IN THE AREAS MENTIONED ABOVE.

- a. VINYL TILE: DEJA NEW SMOOTH CONCRETE (OR APPROVED EQUIVALENT)
- b. COLOR: ANTHRACITE
- c. TILE SIZE: 24 X 24
- d. INCLUDE RUBBER TRANSITIONS ON ALL PERIMETERS AND DOORWAYS

GENERAL REQUIREMENTS

1. BUILDING OPERATION

THE BUILDING SHALL BE IN OPERATION DURING WORK DAYS. CONTRACTOR SHALL KEEP DISRUPTION TO THEIR OPERATION TO A MINIMUM. DEMOLITION WORK, LOADING AND UNLOADING OPERATION THAT SLOW DOWN OR BLOCK VEHICULAR AND PEDESTRIAN TRAFFIC SHALL BE CONDUCTED DURING THE DOD'S NON-BUSINESS HOURS OR ON NON-WORK DAYS. CLEAN AND REMOVE ALL CONSTRUCTION DEBRIS AND DUST IN THE FACILITY AT THE END OF EACH WORKING DAY. WORK SHALL BE PERFORMED IN A LOGICAL PROGRESSION. CLOSURE OF AN INDIVIDUAL BUILDING OR PORTION THEREOF NECESSARY TO PERFORM THE WORK SHALL BE LIMITED IN DURATION AND COORDINATED A MINIMUM OF TEN (10) WORKING DAYS IN ADVANCE WITH THE PROJECT MANAGER.

2. CONTRACTOR WORK AND STAGING AREA

CONTRACTOR WORK AND STAGING AREA SHALL BE DETERMINED AT PRE-CONSTRUCTION CONFERENCE.

3. REMEDIATION

DEMOLITION WORK SHALL INCLUDE ALL THE WORK INDICATED ON PLANS. FOR CLARITY, LOCATIONS AND QUANTITY OF WORKS TO BE REMEDIATED WERE NOT NECESSARILY INDICATED OR TOTALLY SHOWN ON THE PLAN. CONTRACTOR SHALL THOROUGHLY EXAMINE ALL PLANS AND SPECIFICATIONS, FIELD VERIFY EXISTING CONDITIONS AND CONFIRM ALL THE WORK REQUIRED PRIOR TO COMMENCEMENT OF WORK. HAZARDOUS MATERIALS, SOLVENT, PAINT AND MASTIC REMOVAL, SEALANT, SEALER, COATING OR PAINT THAT CAN GENERATE LINGERING ODOR INSIDE THE ENCLOSED SPACE SHALL NOT BE USED IN THE PROJECT.

4. OFF HOUR WORK

WORK ACTIVITY THAT GENERATE EXCESSIVE DUST, NOISE, SMELL, ODOR AND VIBRATION, AND WORK ACTIVITY THAT MAY PREVENT THE USE OF THE FACILITY SHALL BE CONDUCTED AFTER WORKING HOURS. SECURITY PERSONNEL ACCEPTABLE TO THE PROJECT MANAGER SHALL BE REQUIRED FOR ALL OFF HOUR WORK IN THE FACILITY. COST FOR ALL OFF HOUR WORK AND SECURITY PERSONNEL SHALL BE ENTIRELY BORNE BY THE CONTRACTOR.

5. PROTECTION OF PROPERTY AND EXISTING WORK

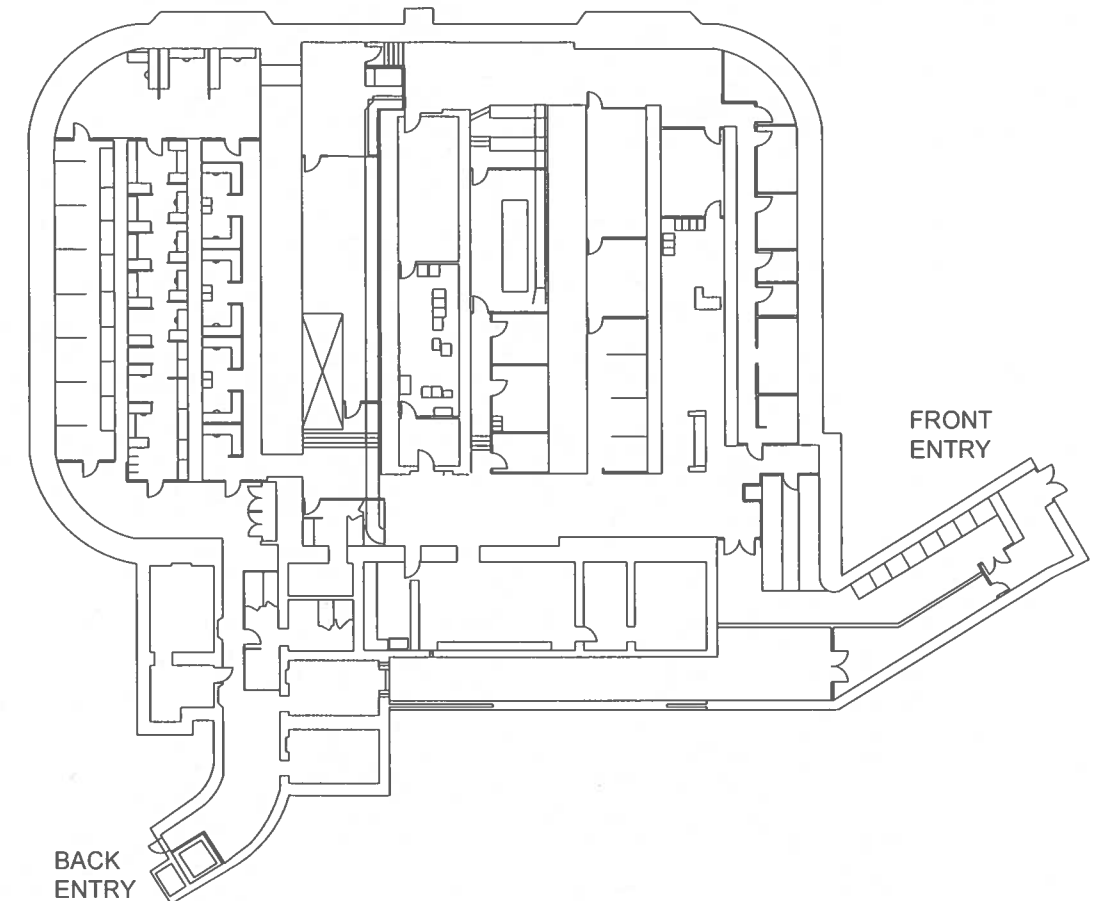
ANY DAMAGE DUE TO CONTRACTOR'S WORK INCLUDING DUST, NOISE, AND PHYSICAL DAMAGES SHALL BE CLEANED, REPAIRED AND/OR REPLACED AT CONTRACTOR'S SOLE EXPENSE AND TO THE SATISFACTION OF PROJECT MANAGER. PRIOR TO DEMOLITION AND REMOVAL WORK, CONTRACTOR SHALL IDENTIFY ALL PRE-EXISTING DAMAGE AND SUBMIT AN ANNOTATED SUMMARY INCLUDING PHOTOS WITH DATE IF NECESSARY TO THE PROJECT MANAGER FOR RECORD.

ASBESTOS ABATEMENT REQUIREMENTS

ASBESTOS REMOVAL AND DISPOSAL NOTES

1. ASBESTOS BULK SAMPLING WAS CONDUCTED ON THE BUILDING COMPONENTS THAT MAY BE IMPACTED. ASBESTOS WAS IDENTIFIED IN THE MASTIC UNDER THE LINOLEUM FLOORING IN THE KITCHIN/DINING ROOM. REFER TO THE "LETTER REPORT, ASBESTOS SURVEY, BIRKHIMER EOC, OAHU, HAWAII," DATED MARCH 2022 AND APPENDED AT THE END OF THE SPECIFICATIONS.
2. THE ESTIMATED QUANTITIES AND LOCATIONS OF ASBESTOS-CONTAINING MATERIALS ARE PROVIDED FOR ESTIMATING PURPOSES ONLY AND SHOULD NOT BE USED FOR BIDDING PURPOSES. THE CONTRACTOR MUST VERIFY THE LOCATIONS AND QUANTITIES OF ALL IDENTIFIED ACM TO BE ABATED PRIOR TO DEMOLITION IN ACCORDANCE WITH HAWAII ADMINISTRATIVE RULES (HAR) 11-504.
3. REFER TO SECTION 13281 - ENGINEERING CONTROL OF ASBESTOS-CONTAINING MATERIALS AND SECTION 13288 - TESTING AND AIR MONITORING.
4. ACM THAT WILL BE ENCOUNTERED AND/OR GENERATED WILL REQUIRE PROPER HANDLING, REMOVAL, AND/OR DISPOSAL BY TRAINED WORKERS IN ACCORDANCE WITH THE OSHA ASBESTOS STANDARD 29 CFR 1926.1101, EPA NATIONAL EMISSION STANDARD FOR ASBESTOS 40 CFR 61-SUBPART M, AND 40 CFR 763 ASBESTOS. AT LEAST TEN (10) WORKING DAYS BEFORE DEMOLITION OR DISTURBANCE OF FRIABLE ASBESTOS ABOVE REPORTABLE QUANTITIES, A "NOTIFICATION OF DEMOLITION AND RENOVATION" MUST BE SENT TO THE HDOH. THE LANDFILL SHOULD BE CONSULTED AS TO THEIR REQUIREMENTS AND PROCEDURES FOR THE DISPOSAL OF ACM AT THEIR FACILITY.
5. THE COST TO DISPOSE OF REMOVED ASBESTOS-CONTAINING MATERIALS AND ASBESTOS DEBRIS/WASTE, AND ALL OTHER SOLID WASTE/CONSTRUCTION DEBRIS, SHALL BE BORNE BY THE CONTRACTOR.
6. PERSONAL AIR MONITORING WILL BE CONDUCTED BY THE CONTRACTOR AND THEIR OWN WORKERS. AREA AIR MONITORING WILL BE CONDUCTED BY A THIRD-PARTY CONSULTANT HIRED BY THE DOD.






SITE PLAN



SUBMITTAL			
REVISION SCHEDULE			
REV #	DESCRIPTION	DATE	APPROVED

BID FINAL		
STATE OF HAWAII, DEPARTMENT OF DEFENSE HAWAII EMERGENCY MANAGEMENT AGENCY		
ASBESTOS REMEDIATION & FLOOR REPLACEMENT AT BIRKHIMER EOC, OAHU STATE OF HAWAII, DEPARTMENT OF DEFENSE		
WORK SCOPE & GENERAL REQUIREMENTS		
ELEMENT ENVIRONMENTAL, LLC	JOB NO	DRAWING NO
DESIGNED BY BB	CHECKED BY RY	ENV-1
DRAWN BY JA	APPROVED BY RY	
SCALE AS INDICATED	DATE MAR 11, 2022	SHEET 2 OF 3 SHTS

LEGEND

-  BT-F-03 GRAY SHEET FLOORING/MASTIC (ND FOR ASBESTOS)
-  BT-F-04 BROWN CARPET/MASTIC OVER FLOORING/MASTIC (ND FOR ASBESTOS)
-  **BT-F-05 GRAY CARPET/MASTIC (BLACK/TAN MASTICS CONTAINS 2% CHRYSOTILE ASBESTOS)**
-  BT-M-02 BROWN VINYL BASE/MASTIC (ND FOR ASBESTOS)
-  BT-M-03 LIGHT BROWN VINYL BASE/MASTIC (ND FOR ASBESTOS)



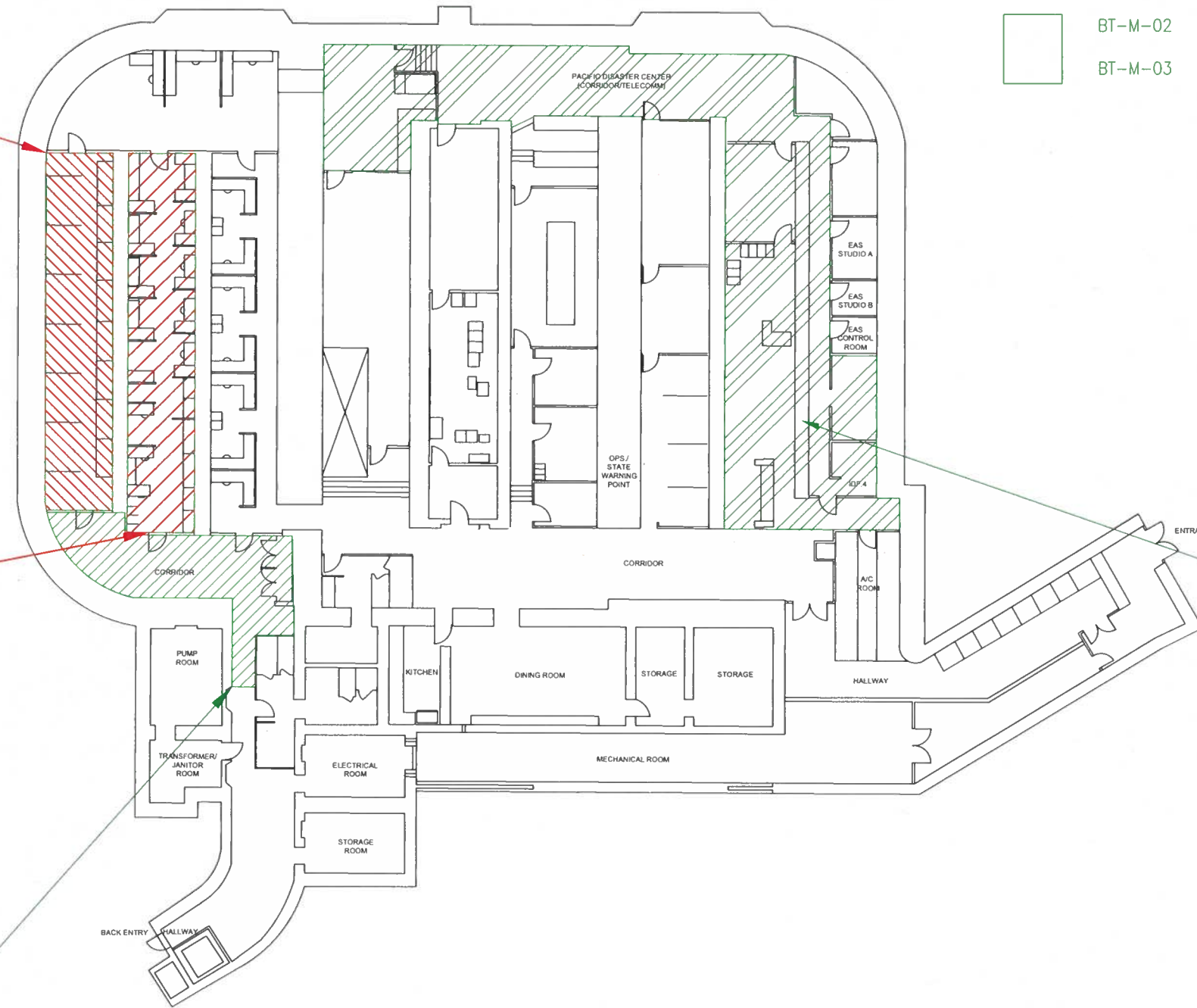
ADD ALT 1:
BT-M-03
BT-F-05
BACK ROW OF CUBICLES



ADD ALT 2:
ROW OF CUBICLES
(BLACK MASTIC)



ADD ALT 3:
BT-F-03 & M-02
CORRIDOR



BASE BID:
BT-F-04 & M-02
ADMINISTRATION/RECEPTION



SUBMITTAL			
REVISION SCHEDULE			
REV #	DESCRIPTION	DATE	APPROVED

BID FINAL STATE OF HAWAII, DEPARTMENT OF DEFENSE HAWAII EMERGENCY MANAGEMENT AGENCY ASBESTOS REMEDIATION & FLOOR REPLACEMENT AT BIRKHIMER EOC, OAHU STATE OF HAWAII, DEPARTMENT OF DEFENSE APPROXIMATE LOCATIONS OF FLOORING/MASTIC ABATEMENT/REMOVAL WORK		
ELEMENT ENVIRONMENTAL, LLC DESIGNED BY: BB DRAWN BY: EL SCALE: AS INDICATED	CHECKED BY: RY APPROVED BY: RY DATE: MAR. 11, 2022	JOB NO: DRAWING NO: ENV-2 SHEET 3 OF 3 SHTS