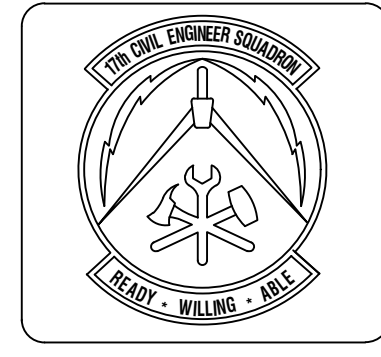
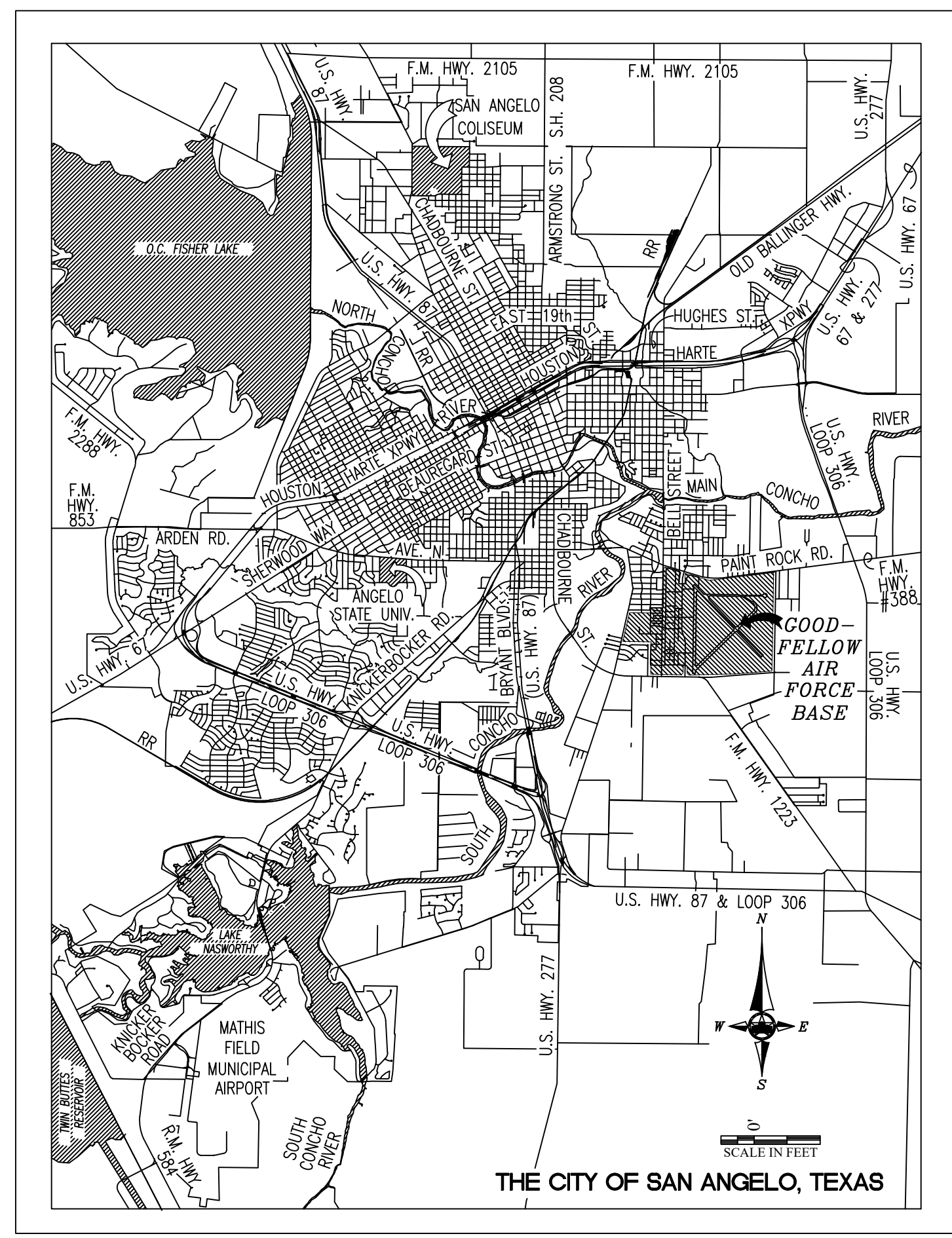


DATE	SIGNATURE
	RECOMMENDED (GCE)
	SUBMITTED (PROGRAMS CHIEF)
	FIRE CHIEF
	SAFETY
	ASSET MANAGEMENT
	BIO-ENVIRONMENTAL OFFICER
	SECURITY FORCES
	COMMUNICATIONS
	CHIEF OF OPERATIONS
	PROGRAM DEVELOPMENT
	PROGRAM MANAGEMENT
	PROJECT MANAGER
	USING AGENCY
	USING AGENCY



ASBESTOS CONTAINING MATERIAL (ACM) AND LEAD BASED PAINT (LBP) STATEMENT	
ACM	Y/N
LBP	Y/N

Symbol	Description	Date	Appr



Designed By: HJS	Drawn By: HJS	Reviewed By: HJS	Submitted By: HJS
Date: March 30, 2018	Contract No.:	File Name: March 30, 2018	Plot Scale: AS SHOWN

- GENERAL NOTES**
- PROSPECTIVE OFFERERS MAY ONLY CONTACT TOM GREEN COUNTY FOR ANY AND ALL INFORMATION WITH REGARDS TO THIS SOLICITATION.
  - ALL WORK IS NEW UNLESS OTHERWISE INDICATED TO BE "EXISTING" OR "REUSED" OR "RELOCATED." THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
  - THE CONTRACTOR SHALL INITIATE AND PROCESS FOR APPROVAL AF FORM 103 "WORK CLEARANCE REQUEST" FOR THE CONTRACTING OFFICER PRIOR TO PERFORMANCE OF ON-SITE WORK.
  - LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO EXCAVATION OR TRENCHING. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE SERVICE LINES AS REQUIRED FOR CONSTRUCTION FOR THIS PROJECT.
  - THE CONTRACTOR SHALL HAND DIG WITHIN (2) FEET EITHER SIDE OF UTILITY CROSSING UNTIL THE UTILITY IS PHYSICALLY EXPOSED. PRIOR TO PERFORMING MECHANICAL TRENCHING OR EXCAVATING, PROVIDE NEW TOPSOIL AND HYDROMULCHING IN ALL AREAS WHERE DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES.
  - PROSPECTIVE OFFERERS ARE HIGHLY ENCOURAGED TO ATTEND THE SCHEDULED PRE-PROPOSAL SITE VISIT TO THOROUGHLY FAMILIARIZE THEMSELVES WITH ANY AND ALL EXISTING SITE AND PROJECT LOCATION CONDITIONS WHICH MAY AFFECT THE WORK UNDER THIS CONTRACT. THE GOVERNMENT SHALL NOT BE RESPONSIBLE FOR CONTRACTOR ERRORS OR OMISSIONS WHICH COULD BE MADE KNOWN BY ATTENDING A SCHEDULED SITE VISIT.
  - THE CONTRACTOR SHALL COORDINATE ALL COMMUNICATIONS WORK WITH THE ENGINEERING SECTION MANAGER AT FRONTIER COMMUNICATIONS AT 1-800-921-8102; WITH THE INSTALLATION OFFICE, SUDDEN-LINK CABLE AT 1-877-794-2724 AND THE GOODFELLOW AFB COMMUNICATIONS SQUADRON AT 325-654-3010.

- PROJECT NOTES**
- Project is to Repair-Renovate existing Fire Training School (FTS) building 3453. Do not scale drawings unless otherwise noted. Verify all elevations and dimensions on site, and any discrepancy shall be brought to the attention Tom Green County. The Contractor shall field verify all existing conditions prior to starting the work. The Contractor verify size and location of all openings through floors, walls, slabs, and roofs.
  - Statement of Work (SOW) is to be used in conjunction with drawings for purposes of bidding, scheduling, and construction.
  - Refer to SOW Attachment C for additional information on Intrusion Detection Systems (IDS).
  - Refer to SOW Attachment D for additional information on Communications NIPR and SIPR Network.
  - Refer to SOW Attachment E for additional information on Communications Universal Training Server Network.
  - Refer to SOW Attachment F for additional information on Communications AFTAC SSA Network.
  - Refer to SOW Attachment I for additional information on Project Closeout Checklist.
  - The Contractor shall initiate and process an AF Form 103 prior to start of construction.
  - The Contractor shall be responsible for all work related to construction, erection methods, bracing, shoring, rigging, guys, scaffolding, formwork, etc. required to safely perform the work.
  - The Contractor shall comply with US Army Safety Health and Manual EM385-1-1.

PROJECT TITLE	<b>REPAIR - RENOVATE Building 3453 17th TRAINING WING GOODFELLOW AIR FORCE BASE, TEXAS</b>
Project Number	GAFB Project #: 1060124
SHEET TITLE	<b>COVER SHEET &amp; BASE MAP</b>
Date	May 21, 2018

SEQ.	SHEET	OF
1	<b>CS-1</b>	25

# TYPICAL ABBREVIATIONS [WHERE APPLICABLE]

ACCORD.	ACCORDANCE	DEMO	DEMOLITION
ACOUS. INSUL.	ACOUSTIC INSULATION	DET	DETAIL
ADDTN.	ADDITION	DIM	DIMENSION
ADJ.	ADJUSTABLE	DIST	DISTANCE
AFF	ABOVE FINISH FLOOR	DWG	DRAWING
ALUM.	ALUMINUM	EA	EACH
ATTEN.	ATTENUATING	ELEC	ELECTRIC(AL)
BITUM	BITUMINOUS	E.W.C.	ELECTRIC WATER COOLER
BLK	BLOCK	EXIST.	EXISTING
BLKG	BLOCKING	EXP. JT.	EXPANSION JOINT
BM	BENCH MARK	EQ	EQUAL
BOT	BOTTOM	E.W.	EACH WAY
CAB	CABINET	EXT.	EXTERIOR
CEM. BD.	CEMENTITIOUS BOARD	EXT. CAB.	EXTINGUISHER CABINET
CER TILE	CERAMIC TILE	F.D.	FLOOR DRAIN
CLG	CEILING	FEC	FIRE EXTINGUISHER CABINET
CONC.	CONCRETE	FIN	FINISH
CMU	CONC. MASONRY UNIT	FIN FLR	FINISH FLOOR
COL.	COLUMN	FLOUR.	FLOURESCENT
CONF.	CONFERENCE	FLR.	FLOOR
CONT.	CONTINUOUS	FLR. E.J.	FLOOR EXPANSION JOINT
COORD	COORDINATE	FURR'G	FURRING
CORR	CORRIDOR	GA.	GAUGE

GALV	GALVANIZED	PLY'WD	PLYWOOD	U.S.G.	UNITED STATES GYPSUM
GFE	GOVERNMENT FURNISH	PLBG.	PLUMBING	V.C.T.	VINYL COMPOSITION TILE
GYP BD.	EQUIPMENT	PROJ. MNT.	PROJECTOR MOUNT	VERT.	VERTICAL
H.C.	GYPSUM BOARD	PROT.	PROTECTION	V.W.C.	VINYL WALL COVERING
HDWD.	HANDICAPPED	PSI	POUNDS PER	WD.	WOOD
H.M.	HARDWOOD	R.A.F.	SQUARE INCH	WDW.	WINDOW
HORIZ.	HOLLOW METAL	REF.	RAISED ACCESS FLOOR	W/	WITH
INSUL	HORIZONTAL	RESIL.	REFERENCE	W/MFR'S	WITH MANUFACTURER'S
LAV	INSULATION	RM.	RESILIENT	W.W.F.	WELDED WIRE FABRIC
LAV	LAVATORY	SCHED.	ROOM	Ø	DIAMETER
MAINT	MAINTENANCE	SCTN.	SCHEDULE		
MAX.	MAXIMUM	SCW	SECTION		
MECH.	MECHANICAL	SPEC.	SOLID CORE WOOD		
MFRD.	MANUFACTURED	S.S.	SPECIFICATION		
MIN.	MINIMUM	STL.	STAINLESS STEEL		
MISC.	MISCELLANEOUS	STRUCT.	STEEL		
MPE	MECHANICAL-PLUMBING-	SUSP. GRID	STRUCTURE		
	ELECTRICAL	CLG. SYS.	SUSPENDED GRID		
MTD.	MOUNTED		CEILING SYSTEM		
MTL.	METAL	THK.	THICK		
O.C.	ON CENTER	TYP.	TYPICAL		
O.C.E.W.	ON CENTER EACH WAY	TYP. MRKR./	TYPICAL MARKER/TACK		
OPNG.	OPENING	TACK BD.	BOARD		
ORIG. BLDG.	ORIGINAL BUILDING	UNC.	UNCASED		
P	PLATE				

# INDEX OF DRAWINGS:

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●02	CS-02	NOTES, VICINITY MAP & LEGEND; INDEX OF DRAWINGS
●03	CS-03	GENERAL NOTES
●04	C-01	BUILDING 3453 EXISTING FLOOR PLAN
●05	A-01	SOUTH ANNEX FLOOR PLANS
●06	A-02	NORTH ANNEX FLOOR PLAN
●07	A-03	MAIN BUILDING FLOOR PLANS
●08	A-04	WEST WING PARTIAL NORTH FLOOR PLAN
●09	A-05	PARTIAL PROPOSED RC PLANS SOUTH ANNEX
●10	A-06	NORTH ANNEX RC PLANS
●11	A-07	MAIN BUILDING PARTIAL WEST RC PLAN
●12	A-08	ARCHITECTURAL SCHEDULES, LEGENDS, NOTES, & DETAILS
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●14	E-01.1	INTRUSION DETECTION SYSTEM - SOUTH ANNEX
●15	E-01.2	ANTENNA & SOLAR PANEL MAST - SOUTH ANNEX
●16	E-02	ELECTRICAL PLAN NORTH ANNEX
●17	E-03	ELECTRICAL PLAN MAIN BUILDING - WEST
●18	E-04	ELECTRICAL PLAN WEST WING - NORTH
●19	E-05	ELECTRICAL DETAILS
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●21	M-02	NORTH ANNEX MECHANICAL PLAN
●22	M-03	MAIN BUILDING PARTIAL WEST / WEST WING PARTIAL NORTH MECHANICAL PLANS
●23	M-04	MECHANICAL DETAILS
●24	P-01	NORTH / SOUTH ANNEX PLUMBING PLANS
●25	FS-01	FIRE SUPPRESSION PLAN

### PRIVATIZED ELECTRICAL UTILITY SYSTEMS:

AEP TEXAS NORTH COMPANY IS THE UTILITY OWNER AND SOLE PROVIDER OF THE ELECTRICAL DISTRIBUTION UTILITY SYSTEM AT GOODFELLOW AIR FORCE BASE, TEXAS.

NEWLY PROVIDED SYSTEM INFRASTRUCTURE AND/OR MODIFICATIONS OF OR CONNECTIONS TO THE EXISTING SYSTEM INFRASTRUCTURE IDENTIFIED IN THE SPECIFICATIONS AND/OR DRWINGS MUST BE COORDINATED WITH THE UTILITY OWNER PRIOR TO THE CONTRACT START DATE. TO CONNECT FACILITIES, THE CONSTRUCTION CONTRACTOR SHALL REQUEST THAT THE UTILITY OWNER PROVIDE THE REQUIRED CONNECTING FACILITIES, UP TO A POINT OF DEMARCATION WHICH INCLUDES ALL TERMINATIONS AT THE TRANSFORMER.

ALL WORK ON THE SYSTEM OR FACILITIES EXPECTED TO CONNECT TO THE SYSTEM SHALL COMPLY WITH THE UTILITY OWNER'S SPECIFICATIONS AND CONSTRUCTION STANDARDS. IN NO EVENT SHALL THE CONSTRUCTION CONTRACTOR CONNECT TO, OR OTHERWISE TOUCH THE UTILITY OWNER'S INFRASTRUCTURE WITHOUT THE UTILITY OWNER'S EXPRESS WRITTEN PERMISSION.

THE UTILITY OWNER: CONTACT VIA:  
AEP TEXAS NORTH COMPANY  
930 West 19th Street  
San Angelo, Texas 76903  
PHONE: 325-657-2800

### ARCHITECT / ENGINEER RESPONSIBILITIES:

- SITE PLAN WITH ADJACENT STREETS OR LANDMARKS IDENTIFIED.
- BUILDING PLAN SHEETS WITH THE FOLLOWING INFORMATION:
  - LOCATION OF SERVICE ENTRANCE
  - REQUESTED TRANSFORMER LOCATION, IF A PREFERENCE IS KNOWN.
  - SQUARE FOOTAGE OF BUILDING SPACE WITH THE TYPE OF LOAD TO BE SERVED.
  - ELECTRICAL PANEL SCHEDULE
  - NUMBER AND SIZE OF SECONDARY CONDUCTORS TO BE TERMINATED AT THE TRANSFORMER
  - PROPOSED LOCATION OF OTHER UTILITY ROUTES AND ENTRANCES.
- LOAD DEMAND INFORMATION FROM EXISTING SIMILAR BUILDINGS.
- SCHEDULE OF WORK.

### CONTRACTOR / BUILDER RESPONSIBILITIES:

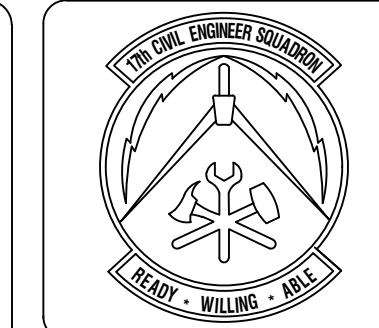
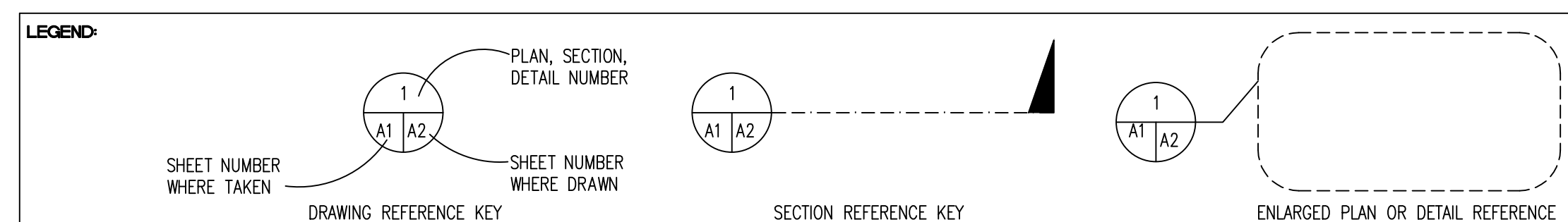
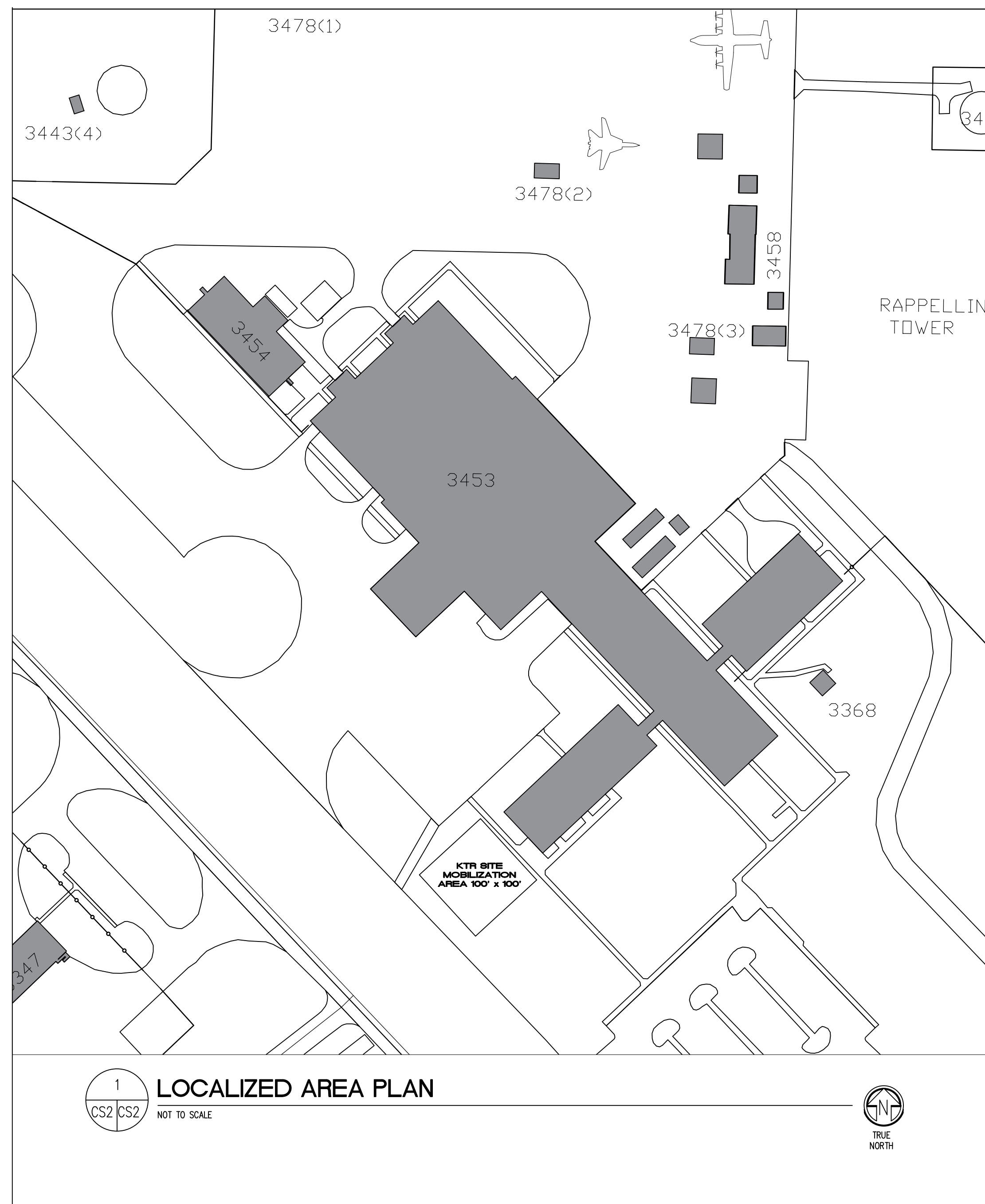
- CONTACT NAMES AND NUMBERS UPON ARRIVAL AT THE SITE.
- LOCATION OF TRANSFORMER PAD.
- INSTALL SECONDARY CONDUITS INTO THE APPROPRIATE WELL LOCATION BEFORE PAD INSTALLATION. THIS INCLUDES ANY REQUIRED METERING CABLE CONDUITS.
- PROVIDE FINAL GRADE IN TRANSFORMER PAD AREA PRIOR TO PAD CONSTRUCTION.
- INSTALLATION OF ANY REQUIRED INSTRUMENT RATED METERING EQUIPMENT.
- PROVIDE SECONDARY CABLE TERMINALS.
- PRIMARY CONDUIT DITCH COMPACTION IF REQUIRED.
- ASPHALT AND/OR CONCRETE CUT AND REPAIR IF REQUIRED.
- LOCATION OF OTHER UTILITY LINES INSTALLED DURING THIS CONSTRUCTION.
- TEMPORARY POWER POLE (SEE ATTACHED SKETCHES). LOCATION TO BE APPROVED BY AEP TEXAS. NOTE: ANY LINE EXTENSION REQUIRED FOR THE PURPOSE OF TEMPORARY SERVICE WILL REQUIRE A CIAC TO COVER THE COST OF INSTALLATION AND REMOVAL OF TEMPORARY FACILITIES AND ANY MATERIAL WHICH CANNOT BE REUSED.

### AEP TEXAS RESPONSIBILITIES:

- SIZING AND INSTALLATION OF ALL PRIMARY CONDUCTORS INCLUDING DITCH AND CONDUIT.
- SIZING AND INSTALLATION OF DISTRIBUTION TRANSFORMERS.
- CONSTRUCTION OF TRANSFORMER PAD. SEE ATTACHED SKETCH
- INSTALLATION OF SECONDARY CABLE TERMINALS.

### CONSTRUCTION NOTES:

- THE EDGE OF THE TRANSFORMER PAD SHALL NOT BE CLOSER THAN TWO FEET FROM A WALL, OR FIVE FEET FROM A DOOR OR WINDOW, OR TWENTY FEET FROM A STAIRWELL OR FIRE ESCAPE.
- TRANSFORMERS SHALL NOT BE COMPLETELY ENCLOSED BY WALLS, FENCES, OR LANDSCAPING WITHOUT VENTILATION WHICH IS APPROVED BY AEP TEXAS. THE ENTIRE WIDTH OF THE FRONT OF THE TRANSFORMER AND SECONDARY CABINET SHALL BE ACCESSIBLE. IF A FENCE IS INSTALLED, IT WILL HAVE SUFFICIENT GATES NECESSARY TO PROVIDE THIS ACCESS.
- TRANSFORMERS WILL BE LOCATED IN THE AREAS WITH ALL WEATHER ACCESS BY SERVICE TRUCKS. IN ADDITION, THERE WILL BE NO STRUCTURES CONSTRUCTED ABOVE TRANSFORMERS WHICH WOULD INHIBIT CRANE OPERATIONS.
- NO OTHER UTILITY LINES WILL BE INSTALLED WITHIN TWO FEET OF THE TRANSFORMER PAD.
- NO CUSTOMER EQUIPMENT, EXCEPT INSTRUMENT RATED METERING EQUIPMENT WHICH IS PLACED ON THE SECONDARY BUSHINGS, SHALL BE ATTACHED TO AEP TEXAS TRANSFORMERS; NOR WILL THERE BE ANY HOLES DRILLED INTO THE TRANSFORMER CABINET FOR CONDUITS, CONDUCTORS OR METERS.
- THE NUMBER AND SIZE OF THE SECONDARY CONDUCTORS WHICH ARE ALLOWED TO BE ATTACHED TO THE TRANSFORMER SECONDARY BUSHINGS WILL BE CONTROLLED BY AEP TEXAS. IF THE DESIGN REQUIRES MORE OR LARGER CONDUCTORS THAN ALLOWED FOR A PARTICULAR TRANSFORMER SIZE, AEP TEXAS WILL INSTALL A SECONDARY CABINET WITH BUS BARS (SEE ATTACHED SKETCH) ADJACENT TO THE TRANSFORMER. AEP TEXAS WILL SUPPLY AND INSTALL THE SECONDARY CONDUCTORS FROM THE TRANSFORMER TO THE SECONDARY CABINET. THE POINT OF INTERCONNECTION WILL BE THE BUS BARS WITHIN THE SECONDARY CABINET. THIS CABINET WILL REQUIRE A LARGER TRANSFORMER PAD AS SHOWN ON THE ATTACHED SKETCH.
- TRANSFORMERS LARGER THAN 1000 kVA WILL REQUIRE A LARGER PAD. THIS PAD IS SHOWN ON THE SKETCH LABELED 1500 AND 2500 kVA.
- TEMPORARY CONSTRUCTION POWER WILL BE SUPPLIED TO CUSTOMER SUPPLIED POWER POLES LOCATED WITHIN FIVE FEET OF AN EXISTING PAD MOUNTED TRANSFORMER OR WITHIN FIFTY FEET OF A PRIMARY POWER POLE (SEE ATTACHED SKETCHES).



ASBESTOS CONTAINING MATERIAL IDENTIFIED AND REMOVED FROM THIS PROJECT IN THE APPROPRIATE AREAS.	
This study does not contain ACM/P materials.	
This study contains ACM/P materials that will be removed from the project.	
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Symbol	Description	Date	Appr

Designed By:	HJS	Date:	March 30, 2018
Drawn By:	HJS	Contract No.:	
Reviewed By:		Filename:	
Submitted By:		Plot Date:	March 30, 2018
		Plot Scale:	AS SHOWN

PROJECT TITLE

**REPAIR - RENOVATE Building 3453  
17th TRAINING WING  
GOODFELLOW AIR FORCE BASE, TEXAS**

Project Number

GAFB Project #: 1060124

SHEET TITLE

NOTES, VICINITY MAP & LEGEND; INDEX OF DRAWINGS

Date

May 21, 2018

SEQ.	SHEET	OF
2	CS-2	25

**A. GENERAL NOTES**

- 1A. CONSTRUCTION ACCESS TO THE SITE SHALL BE THROUGH THE EXISTING GATE LOCATED ON SOUTH CHADBOURNE STREET. ALL CONSTRUCTION TRAFFIC ENTERING THE BASE IS REQUIRED TO PASS THROUGH THE COMMERCIAL VEHICLE SEARCH AREA LOCATED TO THE EAST OF KEARNEY BOULEVARD. HOURS OF OPERATION ARE FROM 6:30 A.M. TO 2:00 P.M. MONDAY THROUGH FRIDAY.
- 2A. CONTRACTORS SHALL KEEP ALL BASE PUBLIC ROADS AND STREETS CLEAN OF CONSTRUCTION DEBRIS, MUD, ETC. AT ALL TIMES. CONTRACTOR SHALL PROVIDE EQUIPMENT AND PERSONNEL TO CLEAN ANY STREETS AS REQUESTED BY THE CONTRACTING OFFICER. CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS. STREETS, PARKING AREAS AND BASE OR GOVERNMENT PROPERTY DAMAGED FROM CONSTRUCTION ACTIVITIES.
- 3A. CONTRACTORS SHALL MAINTAIN A CONSTRUCTION SITE NEAT AND CLEAN OF DEBRIS AS DIRECTED BY CONTRACTING OFFICER. CONTRACTOR WASTE DUMPSTERS SHALL BE EMPTIED ON A REGULAR BASIS.
- 4A. AREAS DAMAGED OR CHANGED BY THE CONTRACTOR, FROM CONSTRUCTION ACTIVITIES, SHALL BE RESTORED TO THE ORIGINAL OR BETTER CONDITION. THIS SHALL INCLUDE BUT IS NOT LIMITED TO LANDSCAPING, TURFING, UTILITIES, AND PAVEMENTS.
- 5A. CONTRACTOR SHALL FIELD VERIFY; ALL DIMENSIONS ARE APPROXIMATE AND SHALL BE VERIFIED ON SITE.

- 2H. CONTRACTOR SHALL MAINTAIN AT ALL TIMES ONE FIRE LANE FREE FROM OBSTRUCTION AND MAINTAIN ACCESS TO THE SITE AND ALL SURROUNDING ROADS AND STREETS.

**I. CONTRACTOR SAFETY PLAN SUBMITTALS**

- 1I. CONTRACTOR SHALL FURNISH A CONSTRUCTION SAFETY PLAN IN ACCORDANCE WITH THE SPECIFICATIONS WITH HIS/HER PROJECT SCHEDULE. THE SAFETY PLAN SHALL IDENTIFY THE FOLLOWING ITEMS:
  - A. PROPOSED ACCESS POINTS, STAGING AREA AND HAUL ROUTES.
  - B. TEMPORARY MARKINGS TO BE USED, IF ANY.
  - C. LOCATIONS AND TYPE OF BARRICADES OR OTHER TRAFFIC CONTROL DEVICES.
  - D. METHODS BY WHICH THE CONTRACTOR WILL COMMUNICATE WITH 17CES.
  - E. PROCEDURES AND POLICIES FOR EMERGENCIES AND ACCIDENTS.

**J. MAINTENANCE OF STORAGE AREA**

- 1J. THE CONTRACTOR SHALL AT ALL TIMES KEEP THE CONSTRUCTION SITE, CONSTRUCTION TRAILER(S)/BUILDING(S), AND STORAGE AREA(S) IN A CLEAN, NEAT, WORKMAN LIKE CONDITION, FREE FROM ACCUMULATION OF WASTE, RUBBISH, WEEDS, OVERGROWN GRASS, OR CONSTRUCTION DEBRIS, TO THE SATISFACTION OF THE CONTRACTING OFFICER. ALL LOOSE OR LIGHT WEIGHT MATERIALS SHALL BE SECURED TO PREVENT BLOWING OR SCATTERING. THE BURNING OF TRASH OR CONSTRUCTION DEBRIS IS STRICTLY PROHIBITED ON GOODFELLOW AFB. PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS, TOOLS, EQUIPMENT, AND MATERIALS NOT THE PROPERTY OF THE GOVERNMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL LEAVE THE WORK SITE AND STORAGE AREA(S) IN A CLEAN, NEAT, AND WORKMANLIKE CONDITION SATISFACTORY TO THE CONTRACTING OFFICER. REFER TO SECTION 01 14 00 – ENVIRONMENTAL PROTECTION FOR GOODFELLOW AFB, PARAGRAPH 2.4.6, POST-CONSTRUCTION
- 2J. THE CONTRACTOR SHALL KEEP FENCING IN A STATE OF GOOD REPAIR AND PROPER ALIGNMENT. GRASSED OR UNPAVED AREAS, WHICH ARE NOT ESTABLISHED ROADWAYS, WILL BE COVERED WITH A LAYER OF GRAVEL AS NECESSARY TO PREVENT RUTTING AND THE TRACKING OF MUD ONTO PAVED OR ESTABLISHED ROADWAYS, SHOULD THE CONTRACTOR ELECT TO TRAVERSE THEM WITH CONSTRUCTION EQUIPMENT OR OTHER VEHICLES; GRAVEL GRADATION WILL BE AT THE CONTRACTOR'S DISCRETION. MOW AND MAINTAIN GRASS LOCATED WITHIN THE BOUNDARIES OF THE CONSTRUCTION SITE FOR THE DURATION OF THE PROJECT. GRASS AND VEGETATION ALONG FENCES, BUILDINGS, UNDER TRAILERS, AND IN AREAS NOT ACCESSIBLE TO MOWERS WILL BE EDGED OR TRIMMED
- 3J. GRASS AND WEEDY VEGETATION WITHIN THE AREAS UTILIZED BY THE CONTRACTOR, INCLUDING WORK AREAS, ADMINISTRATIVE AREAS, AND STORAGE AREAS, SHALL BE KEPT MOWED TO CONTROL VEGETATIVE GROWTH. VEGETATION SHALL BE MOWED WHEN IT REACHES A HEIGHT OF 6 INCHES. MOWING SHALL BE TO A HEIGHT OF 3 INCHES. MOWING SHALL BE ACCOMPLISHED WITH A ROTARY MOWER THAT LEAVES THE CLIPPINGS EVENLY DISTRIBUTED ON THE SOIL SURFACE. MOWING SHALL BE ACCOMPLISHED DURING PERIODS AND IN SUCH MANNER THAT THE SOIL AND GRASS WILL NOT BE DAMAGED. TOWED OR SELF-PROPELLED RIDING MOWERS SHALL NOT BE OPERATED WITHIN 3 FEET OF TREES OR SHRUBS. AREAS ADJACENT TO TREES AND SHRUBS SHALL BE MOWED WITH HAND-PROPELLED MOWERS.
- 4J. EROSION CONTROL DEVICES SHALL BE USED FOR THE STAGING AREA AND ANY MATERIAL STOCK PILES WHEN NECESSARY TO CONTROL EROSION AND STORM WATER RUNOFF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. A SWPPP SHALL BE SUBMITTED PRIOR TO MOBILIZATION.

**B. STAGING NOTES**

- 1B. CONTRACTOR SHALL INSTALL AND MAINTAIN A TEMPORARY CONSTRUCTION CHAIN LINK FENCE, 6 FEET HIGH, AROUND THE LIMITS OF WORK NOT INCLUDING THE CONSTRUCTION ACCESS ROAD. COORDINATE CHAIN AND PADLOCKS ON GATES WITH GOODFELLOW FIRE DEPARTMENT. EACH GATE SHALL BE NUMBERED FOR EMERGENCY ACCESS, SHALL HAVE ENTRY/EGRESS SIGNAGE AND AREA LIGHTING. CONTRACTORS SHALL MAINTAIN FIRE ACCESS TO THE INDIVIDUAL CONSTRUCTION SITE AT ALL TIMES.
- 2B. IF A TRUCK WASHOUT AREA IS NEEDED IT SHALL BE CONSTRUCTED, MAINTAINED AND CLEANED IN ACCORDANCE WITH TCEQ REGULATIONS. PROVIDE DETAILS AND MAINTENANCE PLAN AS PART OF THE STORMWATER POLLUTION PREVENTION PLAN. STORMWATER PERMITS ARE REQUIRED PRIOR TO THE START OF CONSTRUCTION.
- 3B. ALL CONTRACTORS SHALL STOCKPILE REQUIRED MATERIALS AND EQUIPMENT WITHIN LIMITS OF RESPECTIVE PROJECT AREA OR STAGING AREA. MATERIALS AND EQUIPMENT MAY BE STORED ON A TEMPORARY BASIS, ON THE EXTERIOR LOCATED WEST OF BUILDING 3453.
- 4B. CONTRACTOR SHALL CONNECT TO EXISTING OR NEW FIRE HYDRANTS FOR TEMPORARY CONSTRUCTION WATER. INSTALL QUICK DISCONNECT, BACK FLOW PREVENTER AND SHUT-OFF VALVE ON 2 1/2" HOSE CONNECTION ONLY. PRIOR TO MAKING ANY CONNECTIONS TO BASE WATER SYSTEMS, THE CONTRACTOR MUST NOTIFY AND COORDINATE WITH 17CES. A FIRE PLUG USAGE PERMIT IS REQUIRED AND USAGE SHALL BE METERED AT ALL TIMES.
- 5B. ALL TEMPORARY ELECTRIC POWER FACILITIES SHALL MEET OR EXCEED NESC AND NEC REQUIREMENTS AS APPLICABLE FOR PRIMARY AND SECONDARY FACILITIES.
- 6B. THE CONTRACTOR SHALL STORE ALL FLAMMABLE MATERIALS IN A FLAMMABLE STORAGE LOCKER WHICH MUST BE LOCATED 50 FEET OR MORE AWAY FROM BUILDING 3453.

**C. ACCESS AND VEHICLE PARKING**

- 1C. ACCESS TO THE PROJECT FOR ALL CONSTRUCTION PERSONNEL, VEHICLES AND EQUIPMENT IS ILLUSTRATED ON THE STAGING/LAYDOWN AND ACCESS PLAN ON SHT. G-01. ACCESS ROUTES MAY BE SUBJECT TO CHANGE BASED ON OPERATIONAL REQUIREMENTS. POTENTIAL SCHEDULE IMPACTS SHALL BE COORDINATED WITH 17CES.
- 2C. LOCATION OF ACCESS/HAUL ROADS ARE AS INDICATED ON THE STAGING/LAYDOWN AND ACCESS PLAN ON SHT. G-01.
- 3C. ALL HAUL ROADS SHALL BE MAINTAINED SUCH THAT UNOBSTRUCTED ACCESS WILL BE PROVIDED AT ALL TIMES FROM THE ROAD TO THE STAGING AREA AND FROM THE STAGING AREA TO THE WORK SITE AND FACILITATE GOVERNMENT ACCESS TO THE BASE AT ALL TIMES. THE MAINTENANCE OF HAUL ROADS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE GOVERNMENT. THE HAUL ROAD LOCATIONS SHALL BE AS INDICATED ON THE STAGING/LAYDOWN AND ACCESS PLAN OR BY THE CONTRACTING OFFICER.
- 4C. CONTRACTOR SHALL COORDINATE ACTIVITIES THROUGHOUT THE PROJECT IN A MANNER THAT ALLOWS EMERGENCY ACCESS TO ALL EXISTING ROADWAYS AT ALL TIMES WITHOUT DELAYS TO EMERGENCY VEHICLES RESPONSE TIME.
- 5C. ALL CONTRACTOR VEHICLES AND PERSONNEL MAY BE SEARCHED BY SECURITY FORCES WHEN ENTERING THE BASE AND MAY EXPERIENCE DELAYS. ALL PERSONNEL ENTERING GOODFELLOW A.F.B. MUST HAVE A VALID PHOTO ID PER BASE SECURITY REQUIREMENTS. ALL VEHICLES ENTERING THE BASE MUST HAVE CURRENT/ VALID REGISTRATION, CURRENT/ VALID INSURANCE AND CURRENT/ VALID DRIVERS LICENSE FOR THE OPERATOR. ALL DRIVERS MUST COMPLY WITH ALL GOODFELLOW AFB DRIVING REQUIREMENTS (SPEED LIMITS, SEATBELTS, ETC.)
- 6C. WHEN NOT ENGAGED IN CONSTRUCTION ACTIVITIES, THE CONTRACTOR'S CONSTRUCTION EQUIPMENT AND VEHICLES SHALL BE PARKED WITHIN THE WORK AREA OR STAGING AREA.
- 7C. CONTRACTOR WHILE WITHIN GOODFELLOW AFB, SHALL COMPLY WITH BASE REGULATIONS PERTAINING "NO FIREARMS" AND "NO ILLEGAL DRUGS" ON BASE POLICIES.

**D. COORDINATION AND COMMUNICATION DURING CONSTRUCTION**

- 1D. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CORDON OFF THE WORK AREAS WITH APPROVED CROSSINGS BY USING APPROVED BARRICADES, REFER TO DIVISION 01 10 10, PARA 6. REFER TO DIVISION 01 10 10, PARA 6.

**E. TRAFFIC CONTROL**

- 1E. ONLY RUBBER-TIRED VEHICLES SHALL BE ALLOWED ON EXISTING PAVEMENT.

**F. EQUIPMENT AND STOCKPILE HEIGHT**

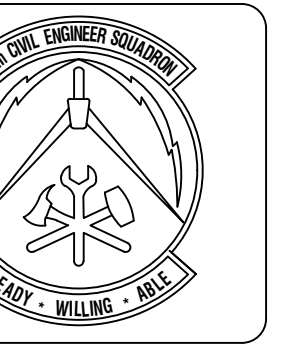
- 1F. STOCKPILE ALL CONSTRUCTION MATERIALS WITHIN STAGING AREA. MAXIMUM HEIGHT 15.00' WITH 5:1 SIDE SLOPES. PROVIDE EROSION CONTROL PROTECTION AROUND THE STOCKPILE LIMITS. ANY MATERIALS THAT ARE TO BE STOCKPILED FOR USE FOR OTHER PROJECTS ON THE BASE SHALL BE COORDINATED WITH 17CES. ALL MATERIAL NOT REQUIRED SHALL BE HAULED OFF GOVERNMENT PROPERTY.

**G. EXCAVATION AND TRENCHES**

- 1G. OPEN TRENCHES AND EXCAVATIONS AT THE CONSTRUCTION SITE SHALL BE PROMINENTLY MARKED WITH ORANGE AND WHITE TYPE III BARRICADES AND WITH FLASHING TYPE A-LOW INTENSITY WARNING LIGHTS FROM DUSK TILL DAWN.

**H. OTHER SAFETY REQUIREMENTS**

- 1H. ALL CONTRACTOR OPERATIONS SHALL BE CONDUCTED AND PERFORMED IN ACCORDANCE WITH DEPARTMENT OF LABOR, OSHA REQUIREMENTS FOUND IN 29 CFR 1910 (1910.146 AND 1910.147) AND 29 CFR 1926, AND AIR FORCE OCCUPATIONAL SAFETY & HEALTH (AFOSH) AND AIR FORCE INSTRUCTION (AFI) STANDARDS INCLUDING AFI 91-203, AIR FORCE CONSOLIDATED OCCUPATIONAL SAFETY INSTRUCTION. THE CONTRACTOR SHALL ALSO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH PROJECT IDENTIFIED NATIONAL STANDARDS, MILITARY MANUALS, INSTRUCTIONS, PAMPHLETS, STANDARDS, AND HANDBOOKS, AND WITH THE EDITION IN EFFECT ON THE DATE OF THIS SOLICITATION OF THE CORPS OF ENGINEERS (COE) SAFETY MANUAL 385-1-1. ALL JOB SITES ARE SUBJECT TO INSPECTIONS BY THE DEPARTMENT OF LABOR. IN THE EVENT OF CONFLICTS BETWEEN THE OSHA STANDARDS AND THESE REQUIREMENTS, THE MOST STRINGENT SHALL APPLY.



<b>ASBESTOS CONTAINING MATERIAL (ACM) AND LEAD BASED PAINT (LBP) STATEMENT</b> Examine for ACM and LBP materials in accordance with 29 CFR 1910.104.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The fieldy contains ACM/LBP materials.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The fieldy does not contain ACM/LBP materials.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The fieldy contains ACM/LBP materials but will be removed from the project.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The fieldy contains ACM/LBP materials but will be removed from the project.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The fieldy contains ACM/LBP materials but will be removed from the project.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

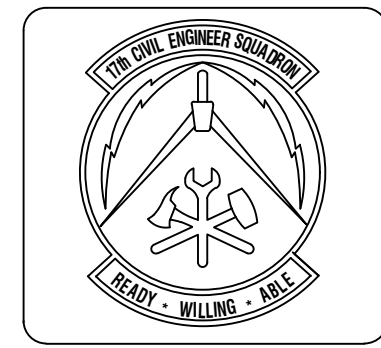
Symbol	Description	Date	APR

Designed By: HJS	Date: March 30, 2018	Contract No.:	
Drawn By: HJS			
Reviewed By:			
Submitted By:			

**PROJECT TITLE**  
**REPAIR - RENOVATE Building 3453**  
**17th TRAINING WING**  
**GOODFELLOW AIR FORCE BASE, TEXAS**

<b>Project Number</b> GAFB Project #: 1060124
<b>SHEET TITLE</b> GENERAL NOTES
<b>Date</b> May 21, 2018

<b>SEQ.</b> 3	<b>SHEET</b> <b>CS-3</b>	<b>OF</b> 25
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**ASBESTOS CONTAINING MATERIAL (ACM) AND LEAD BASED PAINT (LBP) STATEMENT**  
 Done for the project of: **REPAIR - RENOVATE BUILDING 3453 17th TRAINING WING GOODFELLOW AIR FORCE BASE, TEXAS**  
 This facility contains ACM/LBP materials. This facility does not contain ACM/LBP materials. This facility contains ACM/LBP materials but will be removed by the project. This facility contains ACM/LBP materials but will be removed by the project. This facility contains ACM/LBP materials but will be removed by the project.

Symbol	Description	Date	Appr

Designed By: HUS	Date: March 30, 2018
Drawn By: HUS	Contract No:
Reviewed By:	File Name: 3453 17th Training Wing
Submitted By:	March 30, 2018
	Plot Scale: AS SHOWN

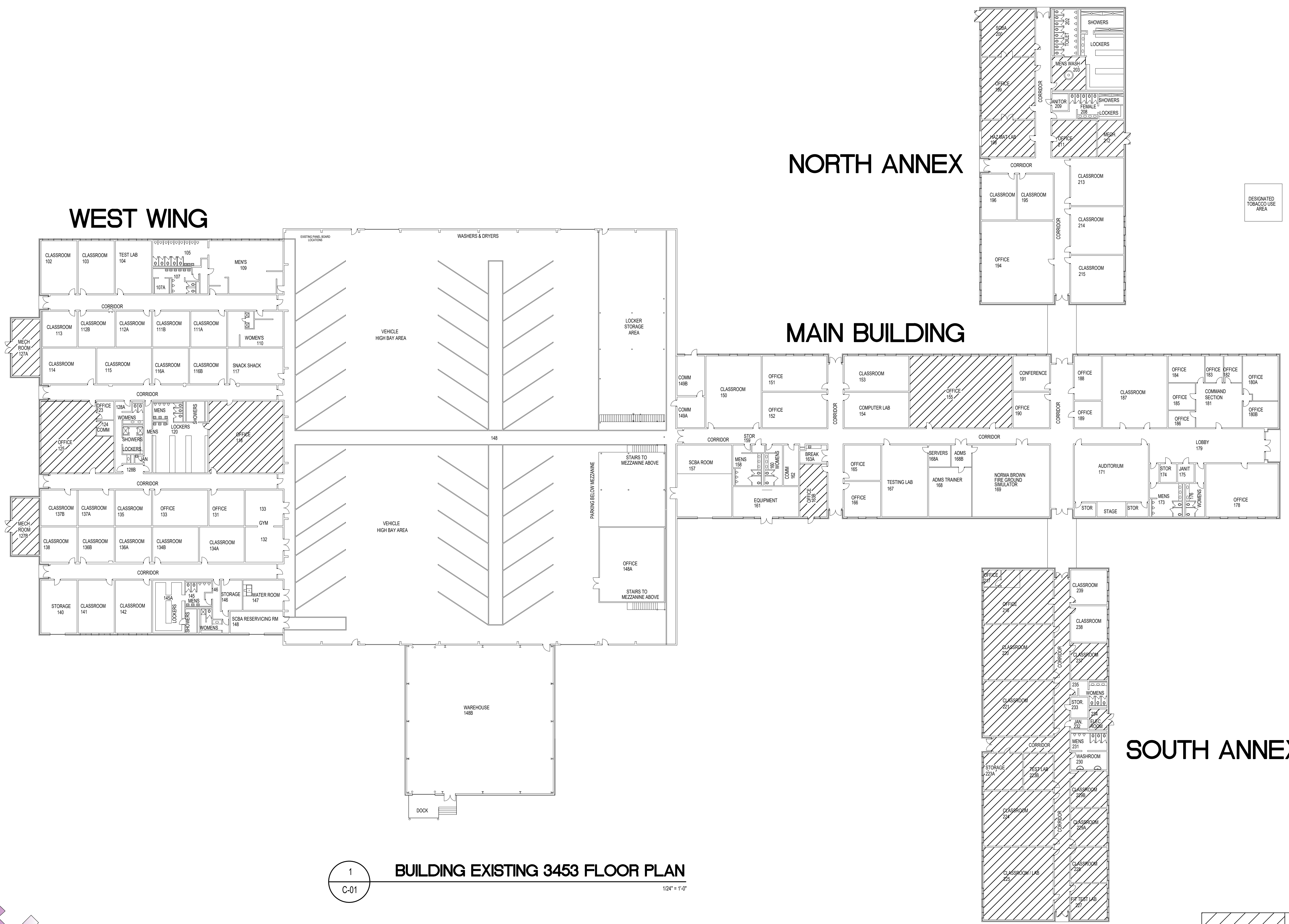
**PROJECT TITLE**  
 REPAIR - RENOVATE BUILDING 3453  
 17th TRAINING WING  
 GOODFELLOW AIR FORCE BASE, TEXAS

**Project Number:**  
 GAFB Project #: 1060124

**SHEET TITLE**  
 BUILDING  
 3453 EXISTING  
 FLOOR PLAN

**Date:**  
 May 21, 2018

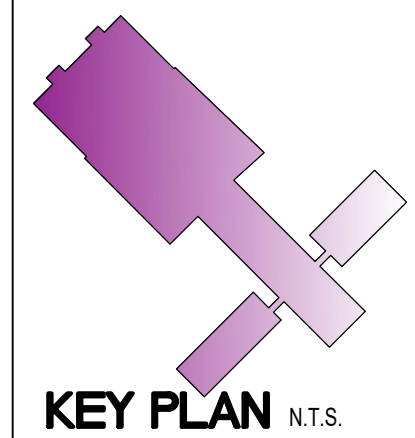
SEQ.	SHEET	OF
4	C-01	25



1  
 C-01 **BUILDING EXISTING 3453 FLOOR PLAN**  
 1/2" = 1'-0"

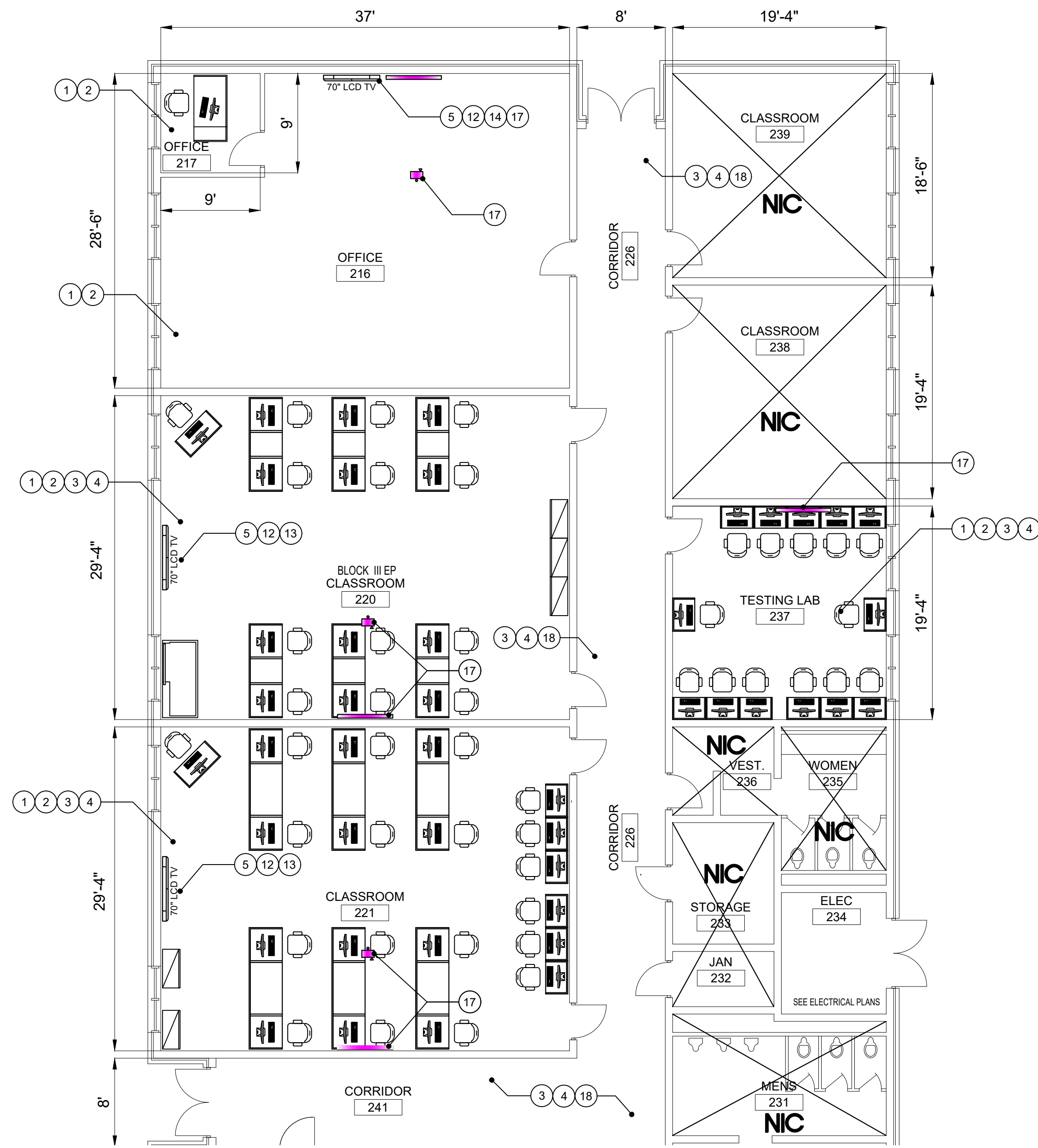
**AREAS of WORK**

ANTENNA REFER TO SHEET E-012

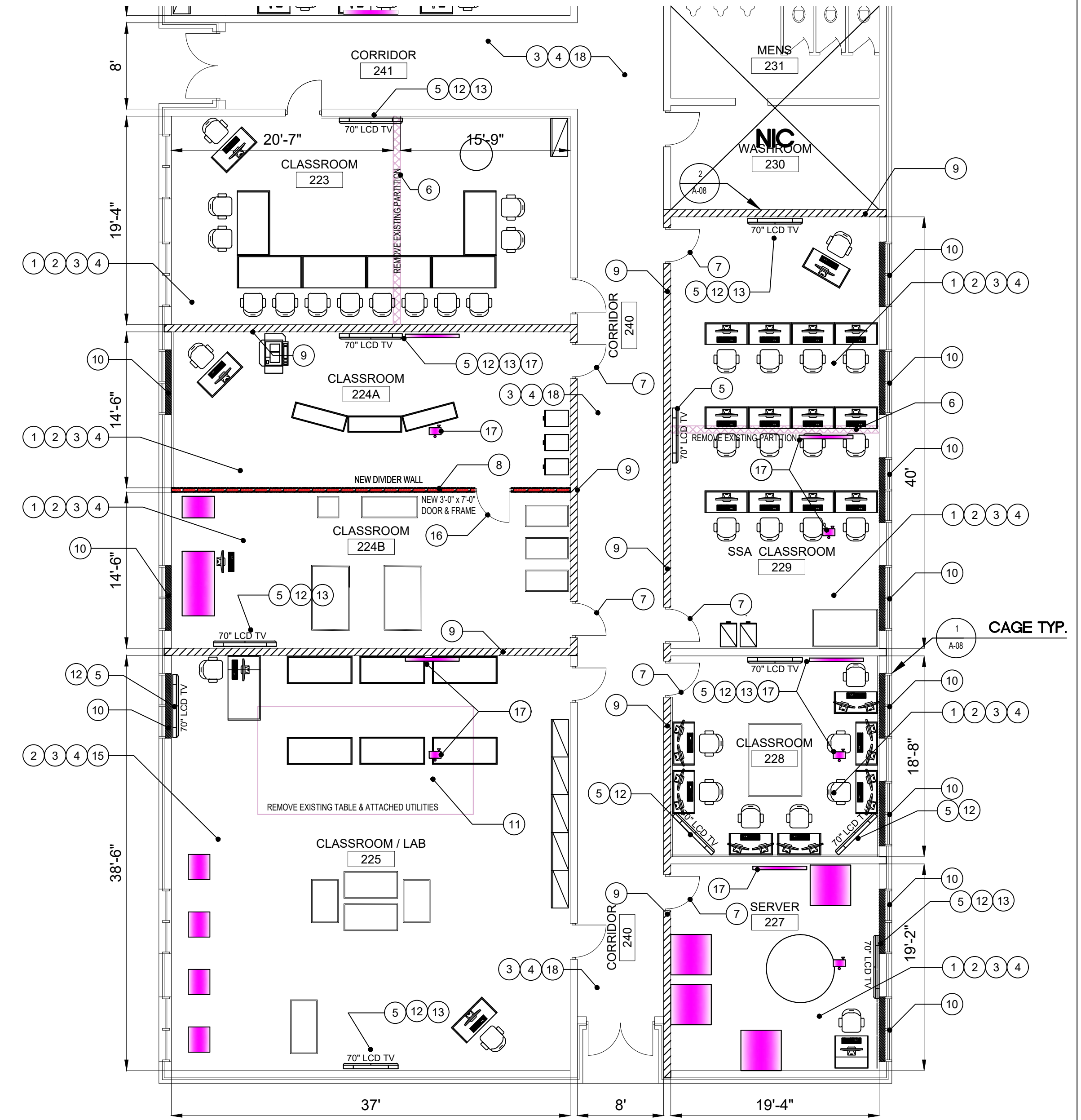


# RENOVATION PLAN NOTES

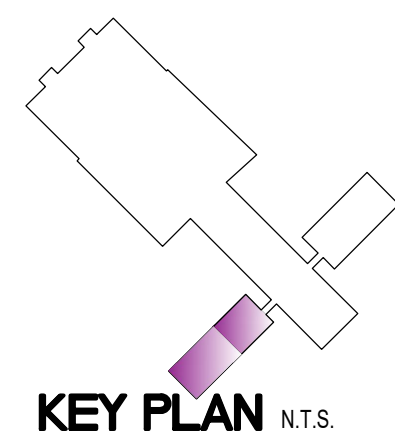
- 1 CONTRACTOR SHALL DEMO EXISTING CARPET AND RUBBER COVE BASE AND PROVIDE NEW CARPET TILE AND 6" RUBBER COVE BASE.
- 2 CONTRACTOR SHALL PROVIDE 1 COAT PRIMER AND 2 COATS OF PAINT ON WALLS.
- 3 CONTRACTOR SHALL DEMO EXISTING SUSPENDED CEILING GRID, ACOUSTIC TILES AND INSULATION AND PROVIDE NEW 2'X2' SUSPENDED CEILING GRID, ACOUSTIC TILES AND BATT INSULATION.
- 4 CONTRACTOR SHALL DEMO EXISTING 2'X4' LIGHTING AND PROVIDE NEW 2'X4' L.E.D. LIGHTING, SEE ELECTRICAL DRAWING(S).
- 5 CONTRACTOR SHALL INSTALL G.F. 70" LCD TV WALL MOUNTS SO THAT TOP OF TV IS AT 8'-0" AFF.
- 6 CONTRACTOR SHALL DEMO EXISTING WALL PARTITION AND UTILITIES AND PATCH ADJACENT WALLS AS NECESSARY TO MATCH EXISTING WALL FINISH.
- 7 CONTRACTOR SHALL DEMO EXISTING 3'-0"x7'-0" DOOR AND FRAME AND PROVIDE NEW 3'-0"x7'-0" SOUND ATT. (STC 45) DOOR, FRAMES AND GASKETS. SOUND DOORS WILL NOT INCLUDE ANY VISUAL GLAZING, USE NON-REMOVEABLE SECURITY PIN HINGES. DOORS AND FRAMES SHALL BE PAINTED WITH OIL BASE PAINT TO MATCH TRIM COLOR. REUSE EXISTING DOOR LOCK SETS.
- 8 CONTRACTOR SHALL PROVIDE NEW DIVIDER WALL WITH 20GA METAL STUDS, 5/8" GYP. BD. ON BOTH SIDES, SOUND BATT INSULATION, TAPE, FLOAT AND TEXTURE TO MATCH EXISTING WALL FINISH.
- 9 CONTRACTOR SHALL EXTEND EXISTING CMU WALL UP TO THE ROOF DECKING, SEAL ALL ADJOINING SURFACES AND PENETRATIONS.
- 10 CONTRACTOR SHALL BLOCK INTERIOR OF THE EXISTING WINDOW WITH METAL FRAMING, 5/8" GYP. BD. ON THE INTERIOR SIDE, TAPE, FLOAT AND FINISH TO MATCH EXISTING INTERIOR FINISH AND 1/2" PLYWOOD PAINTED BLACK ON EXTERIOR WINDOW SIDE. WINDOW AND FRAME TO REMAIN IN PLACE. REFER TO SHEET A-08 CAGE DETAIL.
- 11 CONTRACTOR SHALL DEMO EXISTING LAB TABLE, SINK AND VENT HOOD SYSTEM, CAP ALL UTILITIES AT WALL, FLOOR OR CEILING PER CODE. ROOF PENETRATION SHALL BE SEALED.
- 12 CONTRACTOR SHALL PROVIDE 1 1/2" CONDUIT FOR HDMI CABLE TO BE CONNECTED TO TV.
- 13 CONTRACTOR SHALL CONNECT HDMI CABLE FROM TV TO INSTRUCTORS PODIUM.
- 14 CONTRACTOR SHALL CONNECT HDMI CABLE FROM TV IN ROOM 216 TO WORKSTATION IN ROOM 217.
- 15 CONTRACTOR SHALL DEMO EXISTING CARPET AND RUBBER COVE BASE AND PROVIDE NEW VINYL TILE AND 6" RUBBER COVE BASE.
- 16 CONTRACTOR SHALL PROVIDE NEW 3'-0"x7'-0" H.M. DOOR AND FRAME. DOORS AND FRAMES SHALL BE PAINTED WITH OIL BASE PAINT TO MATCH TRIM COLOR.
- 17 CONTRACTOR SHALL DEMO VARIOUS EXISTING WALL MOUNTED SMART BOARDS, WIPE BOARDS, PROJECTORS AND MOUNTS AND RETURN TO THE GOVERNMENT. PATCH HOLES AND REPLACE CEILING TILE AS NECESSARY. SEE PAGE A-08 FOR FF&E DEMO SCHEDULE.
- 18 THE EXISTING CEILING MOUNTED FM UNITS FOR THE STANLEY ACCESS LOCK SYSTEMS IN THE CORRIDORS SHALL REMAIN IN PLACE.



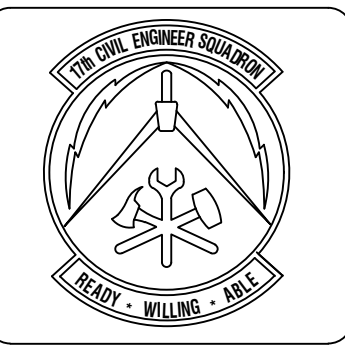
1 PARTIAL RENOVATION SOUTH ANNEX FLOOR PLAN - NORTH  
A-01 1/8" = 1'-0"



2 PARTIAL RENOVATION SOUTH ANNEX FLOOR PLAN - SOUTH  
A-01 1/8" = 1'-0"



KEY PLAN N.T.S.



ASBESTOS CONTAINING MATERIAL (ACM) AND LEAD BASED PAINT (LBP) STATEMENT	
This facility contains ACM/LBP materials that will be removed during the project.	
This facility contains ACM/LBP materials that will be removed during the project.	
This facility contains ACM/LBP materials that will be removed during the project.	
This facility contains ACM/LBP materials that will be removed during the project.	
This facility contains ACM/LBP materials that will be removed during the project.	

Symbol	Description	Date	Appr

Designed By:	HJS	Date:	March 30, 2018
Drawn By:	HJS	Contract No.:	
Reviewed By:		File Name:	March 30, 2018
Submitted By:		Plot Scale:	AS SHOWN

PROJECT TITLE  
**REPAIR - RENOVATE Building 3453  
17th TRAINING WING  
GOODFELLOW AIR FORCE BASE, TEXAS**

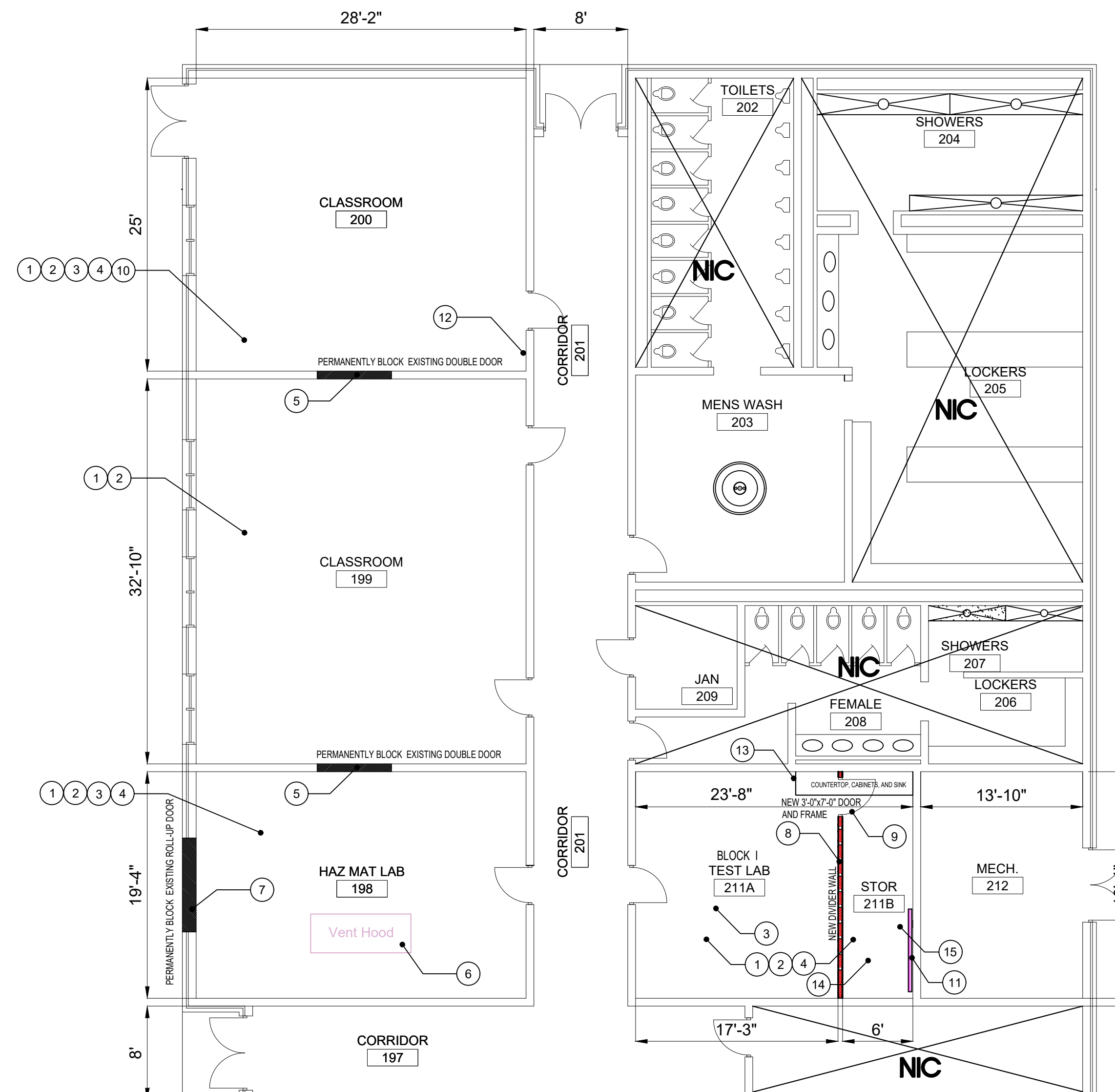
Project Number:	GAFB Project #: 1060124
SHEET TITLE	SOUTH ANNEX FLOOR PLANS
Date:	May XX, 2018

SEQ.	SHEET	OF
5	A-01	25

FURNISHING SHOWN FOR INFORMATION ONLY

# RENOVATION PLAN NOTES

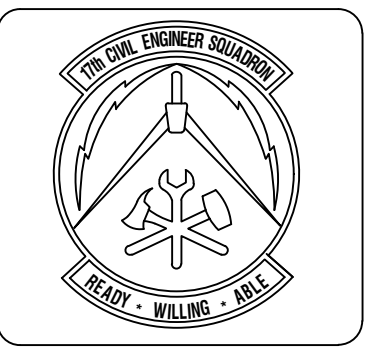
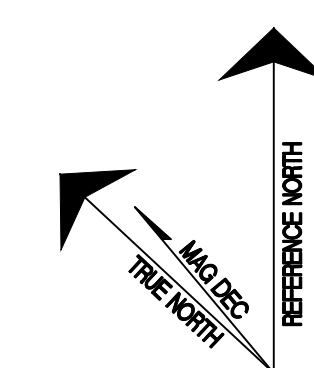
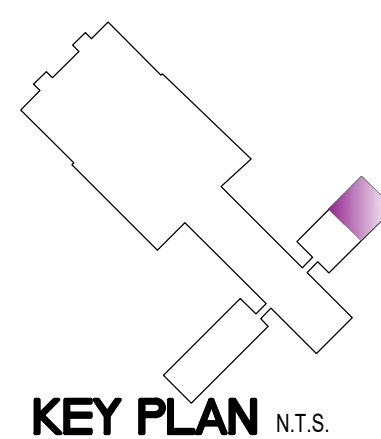
- 1 CONTRACTOR SHALL DEMO EXISTING CARPET AND RUBBER COVE BASE AND PROVIDE NEW CARPET TILE AND 6" RUBBER COVE BASE.
- 2 CONTRACTOR SHALL PROVIDE 1 COAT PRIMER AND 2 COATS OF PAINT ON WALLS.
- 3 CONTRACTOR SHALL DEMO EXISTING SUSPENDED CEILING GRID, ACOUSTIC TILES AND INSULATION AND PROVIDE NEW 2'X2' SUSPENDED CEILING GRID, ACOUSTIC TILES AND BATT INSULATION.
- 4 CONTRACTOR SHALL DEMO EXISTING 2'X4' LIGHTING AND PROVIDE NEW 2'X4' L.E.D. LIGHTING, SEE ELECTRICAL DRAWING(S).
- 5 CONTRACTOR SHALL DEMO EXISTING DOUBLE DOOR AND BLOCK OPENING TO MATCH EXISTING WALL FINISH.
- 6 CONTRACTOR SHALL DEMO EXISTING LAB TABLE, SINK AND VENT HOOD SYSTEM, CAP ALL UTILITIES BEHIND WALL OR ABOVE CEILING PER CODE. ROOF PENETRATIONS SHALL BE SEALED.
- 7 CONTRACTOR SHALL DEMO EXISTING ROLL UP DOOR, DOOR TRACK AND ALL DOOR HARDWARE. BLOCK OPENING FROM INTERIOR TO MATCH EXISTING WALLS. PATCH HOLES FROM HARDWARE AS NECESSARY.
- 8 CONTRACTOR SHALL PROVIDE NEW SERVER ROOM WITH 20ga METAL STUDS, 5/8" GYP. BD. ON BOTH SIDES, SOUND BATT INSULATION, TAPE, FLOAT AND TEXTURE TO MATCH EXISTING WALL FINISH.
- 9 CONTRACTOR SHALL PROVIDE NEW 3'-0"x7'-0" H.M. DOOR AND FRAME. DOORS AND FRAMES SHALL BE PAINTED WITH OIL BASE PAINT TO MATCH TRIM COLOR.
- 10 CONTRACTOR SHALL REMOVE EXISTING W/D CONNECTIONS AND CAP UTILITIES TO INCLUDE THE THE FLOOR DRAIN. SEAL ROOF VENT PENETRATION.
- 11 CONTRACTOR SHALL PROVIDE 3/4" PLYWOOD BACKBOARD ON WALL FOR COMMUNICATIONS. SEE COMMUNICATIONS STATEMENT OF WORK.
- 12 CONTRACTOR SHALL CAP EXISTING AIR CONNECTION.
- 13 DEMO EXISTING COUNTERTOP, CABINETS, AND SINK. CAP UTILITIES TO WALL. REFER TO SHEET P-01.
- 14 COMMUNICATIONS WORK TO BE DONE BY OTHERS.
- 15 CONTRACTOR SHALL DEMO EXISTING SUSPENDED CEILING GRID, ACOUSTIC TILES AND INSULATION AND PROVIDE NEW HAT CHANNEL METAL FRAMING, 5/8" SHEETROCK WITH BATT INSULATION. SHEETROCK SHALL BE TAPED, FLOATED AND TEXTURED TO MATCH NEW WALL.



1  
A-02

## PARTIAL RENOVATION NORTH ANNEX FLOOR PLAN - NORTH

1/8" = 1'-0"



NO.	DATE	DESCRIPTION

SYMBOL	DESCRIPTION	DATE	APPR

Designed By: HUS	Date: March 30, 2018
Drawn By: HUS	Contract No.:
Reviewed By:	Filename: March 30, 2018
Submitted By:	Plot Scale: AS SHOWN

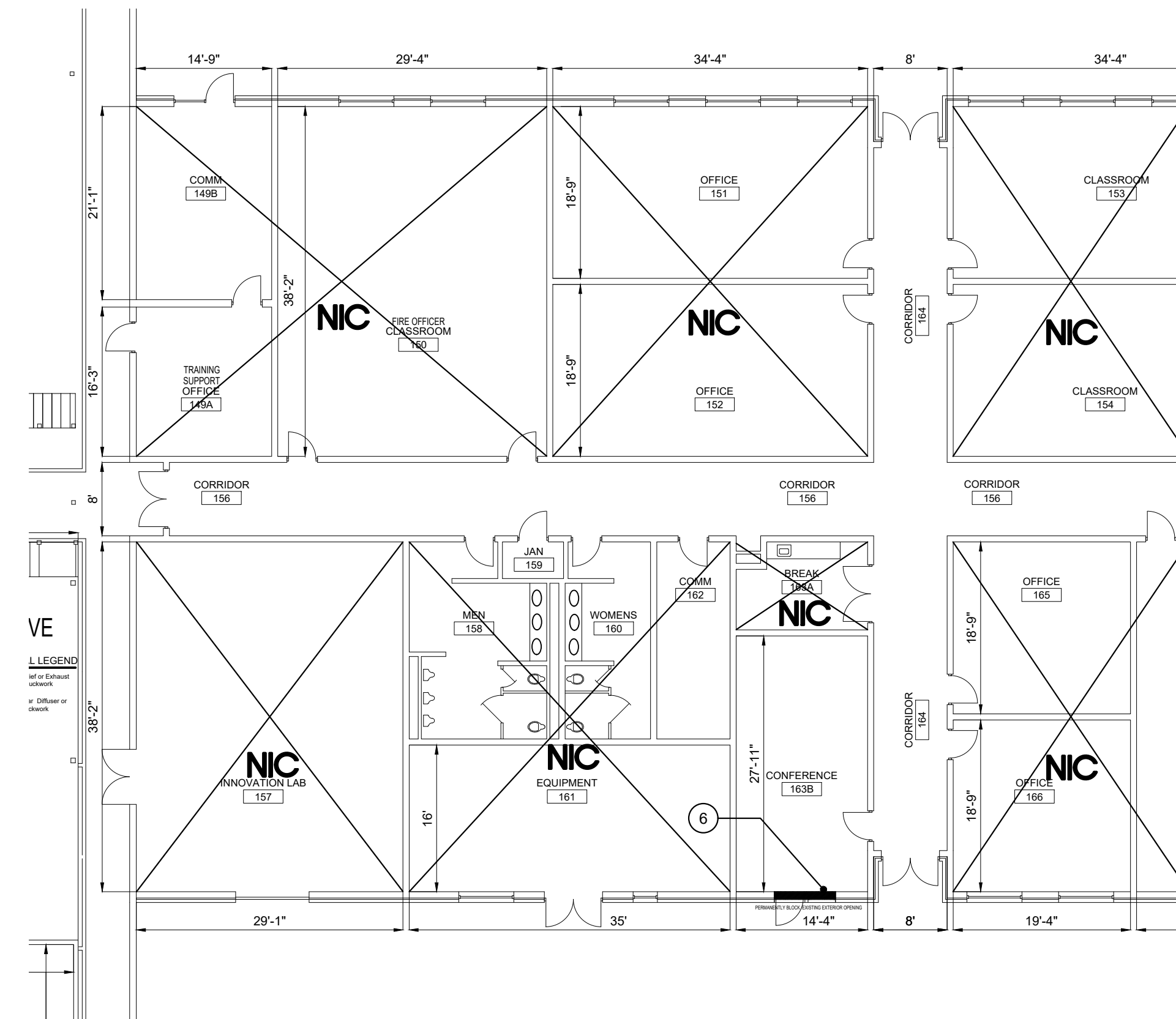
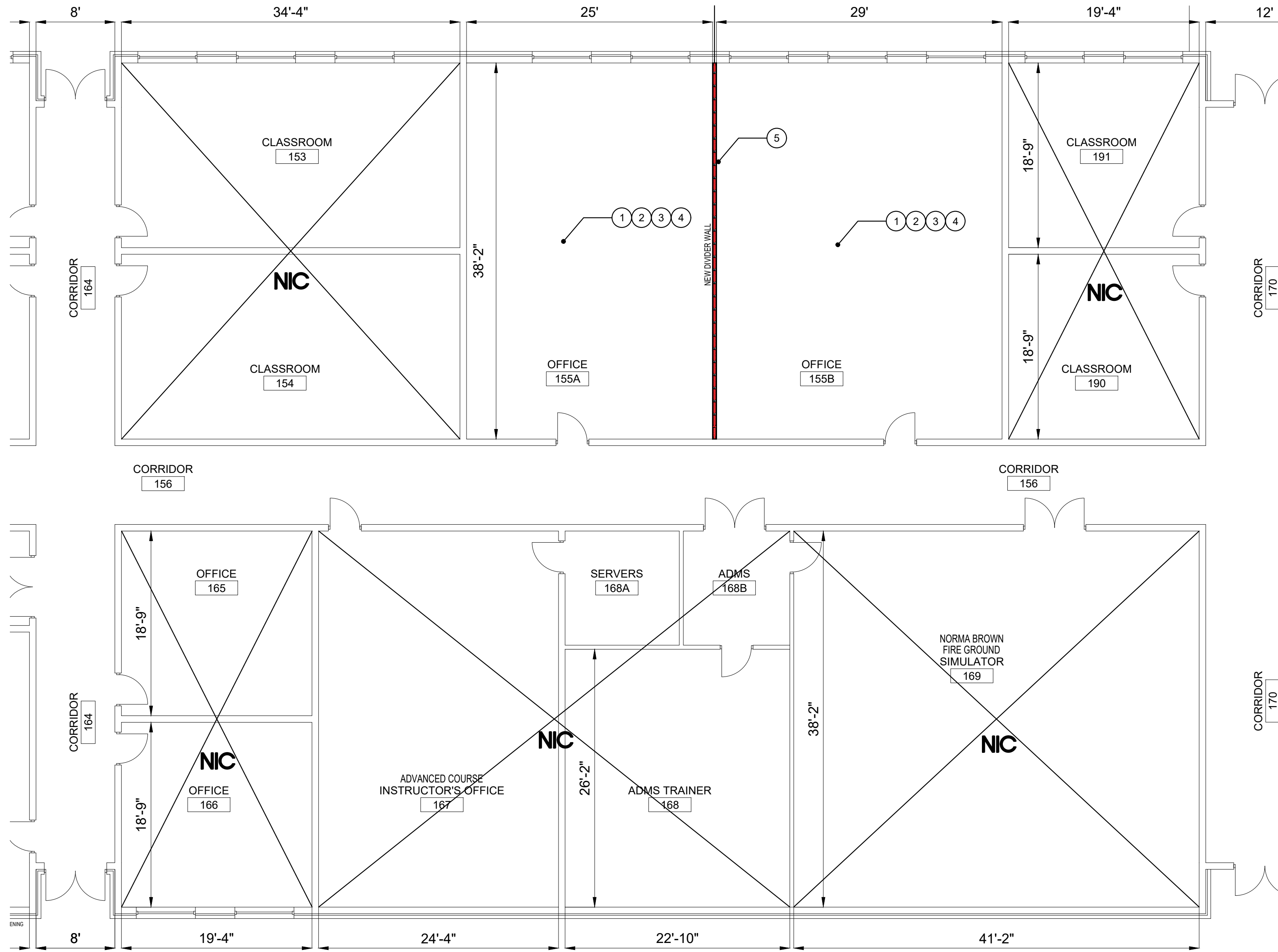
PROJECT TITLE  
**REPAIR - RENOVATE Building 3453  
 17th TRAINING WING  
 GOODFELLOW AIR FORCE BASE, TEXAS**

Project Number:  
 GAFB Project #: 1060124  
 SHEET TITLE  
 NORTH ANNEX  
 FLOOR PLAN  
 Date:  
 May 21, 2018

SEQ.	SHEET	OF
6	A-02	25

# RENOVATION PLAN NOTES

- CONTRACTOR SHALL DEMO EXISTING CARPET AND RUBBER COVE BASE AND PROVIDE NEW 12" BY 12" CARPET TILE AND 6" RUBBER COVE BASE.
- CONTRACTOR SHALL PROVIDE 1 COAT PRIMER AND 2 COATS OF PAINT ON WALLS.
- CONTRACTOR SHALL DEMO EXISTING SUSPENDED CEILING GRID, ACOUSTIC TILES AND INSULATION AND PROVIDE NEW 2'X2' SUSPENDED CEILING GRID, ACOUSTIC TILES AND BATT INSULATION.
- CONTRACTOR SHALL DEMO EXISTING 2'X4' LIGHTING AND PROVIDE NEW 2'X4' L.E.D. LIGHTING, SEE ELECTRICAL DRAWING(S).
- PROVIDE NEW DIVIDER WALL WITH 20GA METAL STUDS, 5/8" GYP. BD. ON BOTH SIDES, SOUND BATT INSULATION, TAPE, FLOAT AND TEXTURE TO MATCH EXISTING WALL FINISH.
- CONTRACTOR SHALL BLOCK INTERIOR OF EXISTING WINDOWS WITH METAL FRAMING, 3/8" GYP. BD. ON THE INTERIOR SIDE, TAPE, FLOAT AND FINISH TO MATCH EXISTING, ADD 1/2" PLYWOOD PAINTED BLACK ON WINDOW SIDE, WINDOW AND FRAME TO REMAIN IN PLACE, BLOCK GLASS ABOVE DOOR ASWELL.



ASBESTOS CONTAINING MATERIAL (ACM) AND LEAD BASED PAINT (LBP) STATEMENT
This facility contains ACM/LBP materials.
This facility does not contain ACM/LBP materials.
This facility contains ACM/LBP materials that will be removed for the project.
This facility contains ACM/LBP materials that will be removed by the project.
This facility contains ACM/LBP materials that will be removed by the project.
This facility contains ACM/LBP materials that will be removed by the project.

Symbol	Description	Date	Appr.

Designed By: HJS	Date: March 30, 2018
Drawn By: HJS	Contract No.:
Reviewed By: HJS	File Name: March 30, 2018
Submitted By:	Plot Scale: AS SHOWN

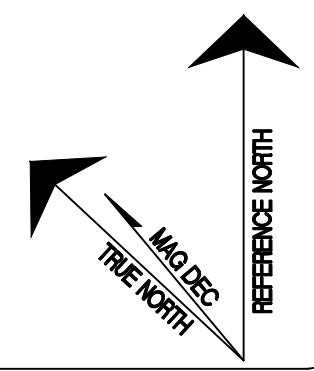
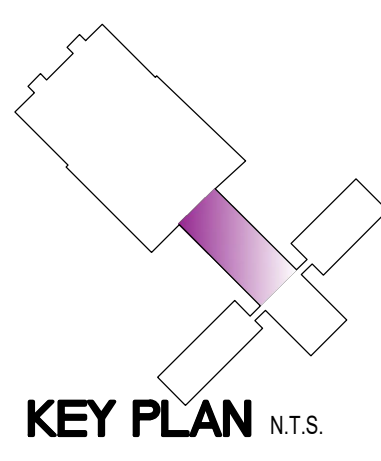
PROJECT TITLE  
**REPAIR - RENOVATE Building 3453  
 17th TRAINING WING  
 GOODFELLOW AIR FORCE BASE, TEXAS**

Project Number:
GAFB Project #: 1060124
SHEET TITLE MAIN BUILDING FLOOR PLANS
Date: May 21, 2018

SEC.	SHEET	OF
7	A-03	25

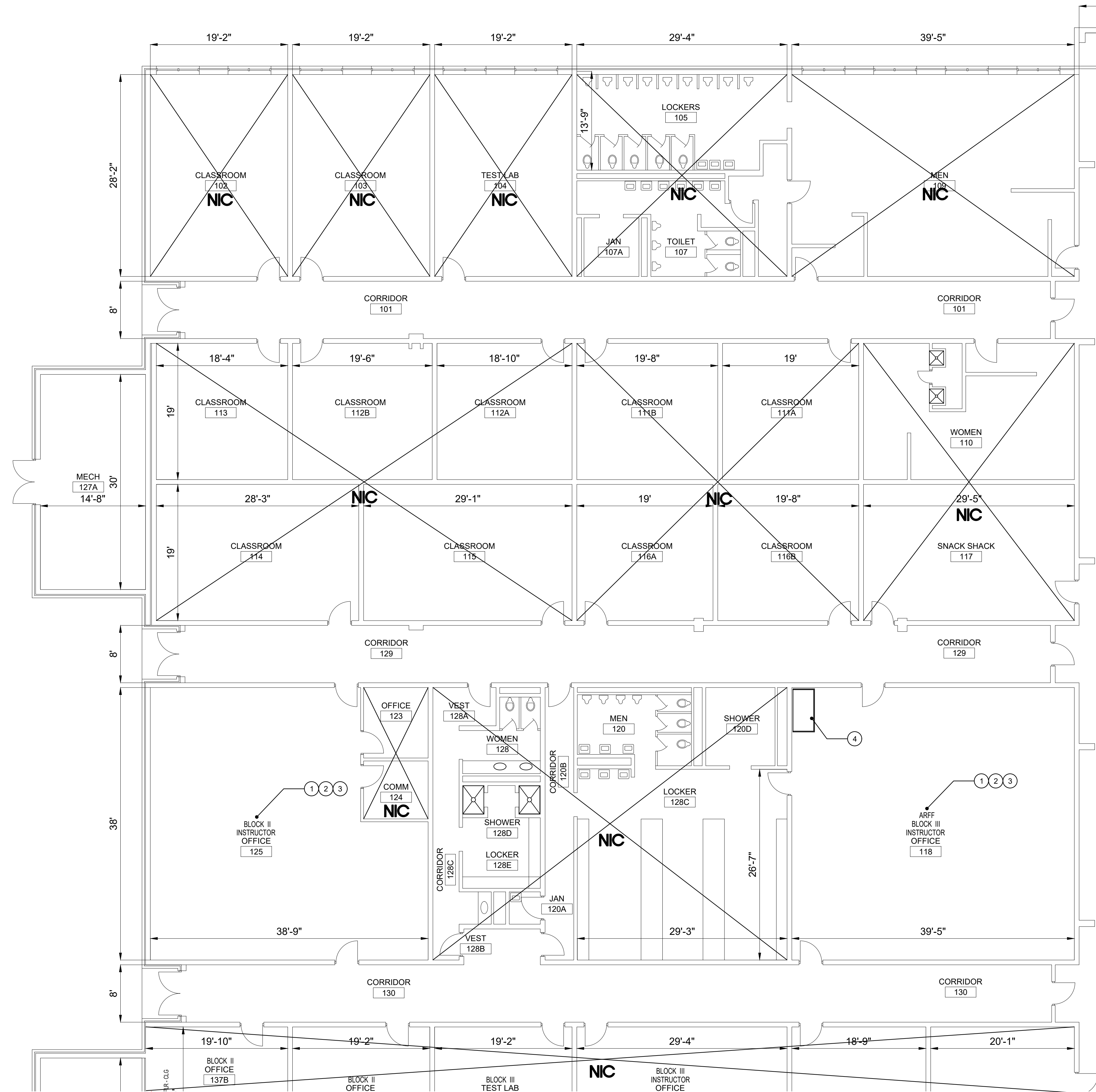
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2 PARTIAL RENOVATION MAIN BUILDING FLOOR PLAN 1/8" = 1'-0"



# RENOVATION PLAN NOTES

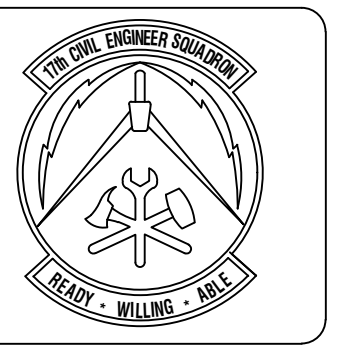
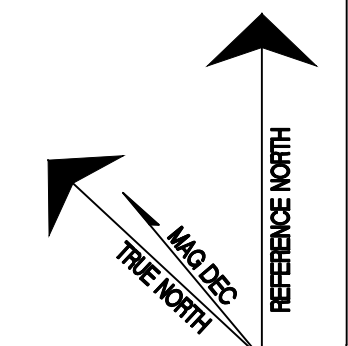
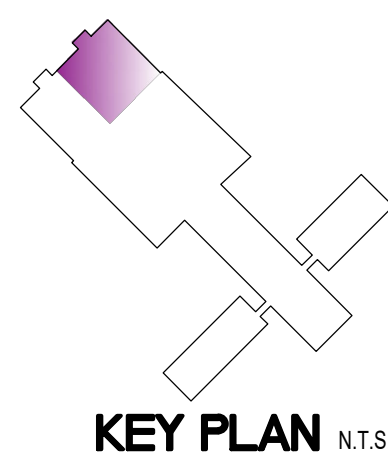
- ① CONTRACTOR SHALL DEMO EXISTING CARPET AND RUBBER COVE BASE AND PROVIDE NEW 12" BY 12" CARPET TILE AND 6" RUBBER COVE BASE.
- ② CONTRACTOR SHALL PROVIDE 1 COAT PRIMER AND 2 COATS OF PAINT ON WALLS.
- ③ CONTRACTOR SHALL REPLACE DAMAGED CEILING TILES AS NECESSARY FOR POWER POLE REMOVAL.
- ④ CONTRACTOR SHALL DEMO EXISTING FREE STANDING COUNTER TOP AND SUPPORTS AND PATCH/PAINT WALLS TO MATCH EXISTING WALL FINISH.



1  
A-04

## PARTIAL RENOVATION WEST WING FLOOR PLAN - NORTH

1/8" = 1'-0"



**ASBESTOS CONTAMINATED MATERIAL (ACM) AND LEAD BASED PAINT (LBP) STATUS**  
 (Check for appropriate ACMLBP and place in "X")

ACM	X
LBP	X

This facility contains ACM/LBP materials.  
 This facility does not contain ACM/LBP materials.  
 This facility contains ACM/LBP materials but will be removed from the project.  
 This facility contains ACM/LBP materials but will be removed from the project.

Symbol	Description	Date	Appr

Designed By: HUS	Date: March 30, 2018
Drawn By: HUS	Contract No.:
Reviewed By:	Filename: March 30, 2018
Submitted By:	Plot Scale: AS SHOWN

**PROJECT TITLE**  
 REPAIR - RENOVATE Building 3453  
 17th TRAINING WING  
 GOODFELLOW AIR FORCE BASE, TEXAS

**Project Number:**  
 GAFB Project #: 1060124

**SHEET TITLE**  
 WEST WING  
 PARTIAL NORTH  
 FLOOR PLAN

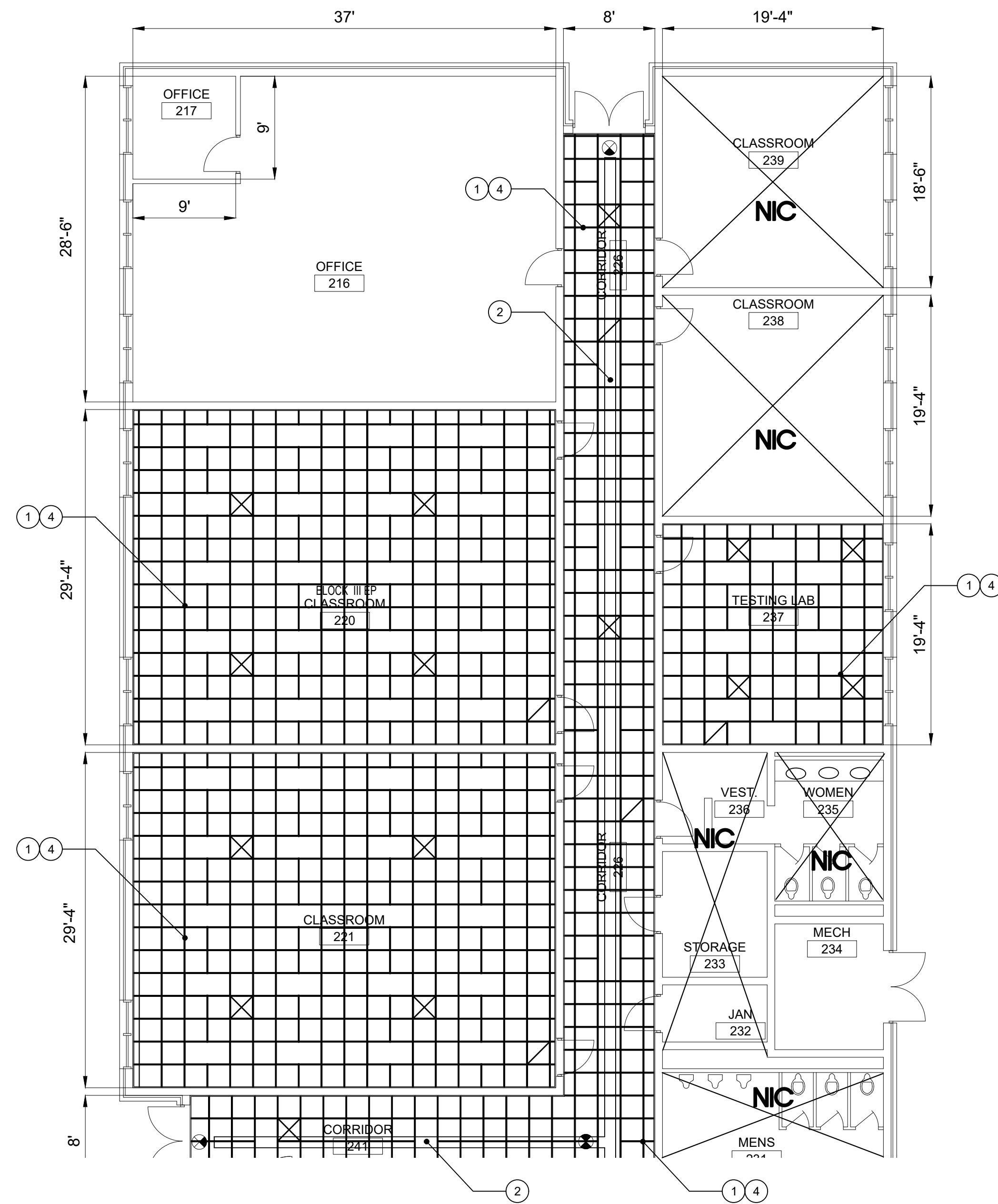
**Date:**  
 March 21, 2018

REQ.	SHEET	OF
8	A-04	25

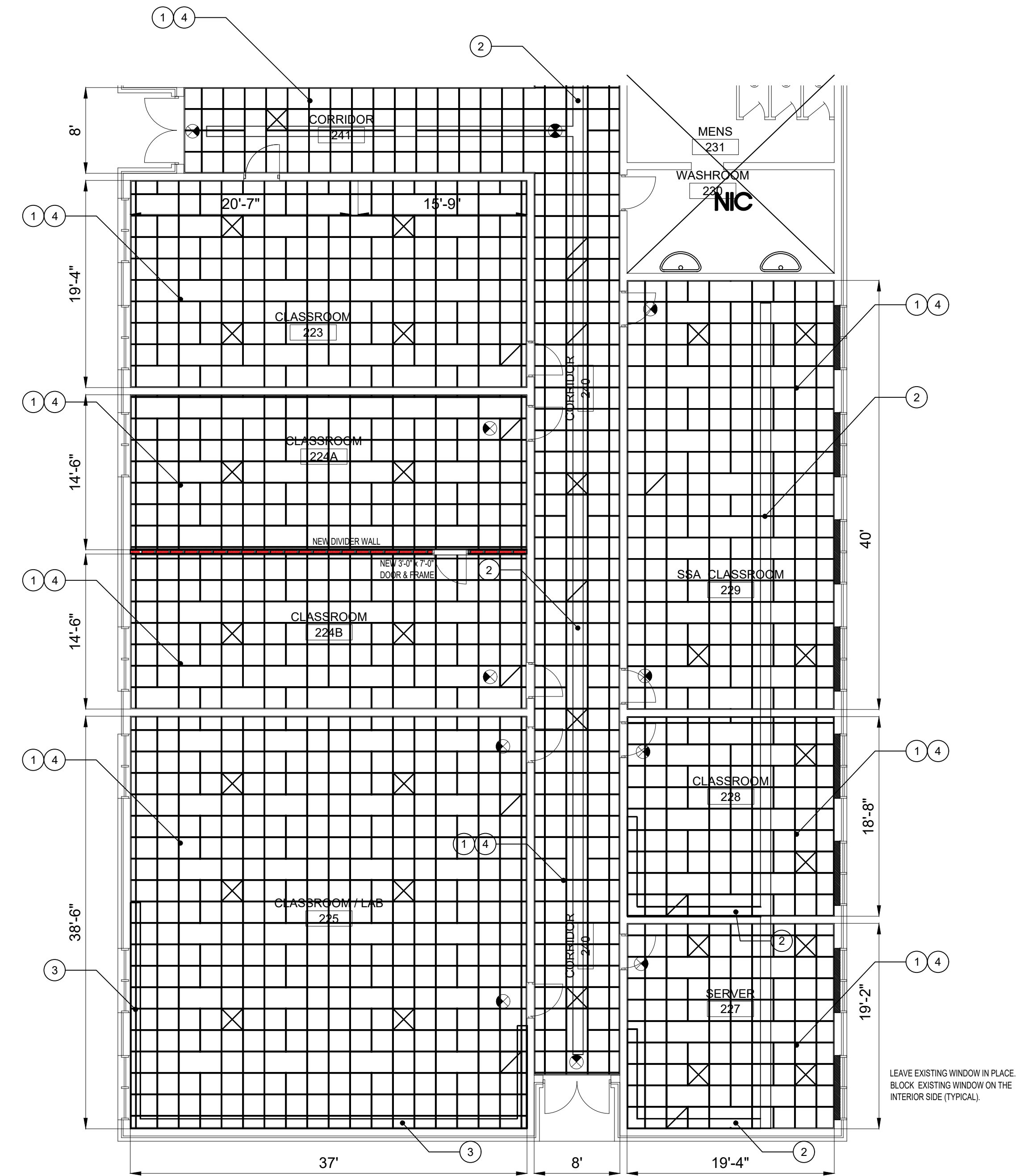


# RENOVATION PLAN NOTES

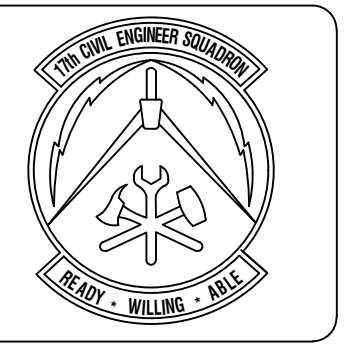
- CONTRACTOR SHALL DEMO EXISTING SUSPENDED CEILING GRID, ACOUSTIC TILES AND INSULATION AND PROVIDE NEW 2'X2' SUSPENDED CEILING GRID, ACOUSTIC TILES AND BATT INSULATION. REUSE EXISTING GRID TIES TO THE MAXIMUM EXTENT POSSIBLE.
- CONTRACTOR SHALL PROVIDE NEW CABLE TRAY ABOVE CEILING FOR THE PROPOSED ROUTE SHOWN, EXACT LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. REFER TO COMMUNICATIONS STATEMENT OF WORK AND E-05 FOR DETAILS.
- CONTRACTOR SHALL PROVIDE NEW BUSSWAY AND CABLE TRAY BELOW CEILING FOR THE PROPOSED ROUTE SHOWN, EXACT LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. REFER TO THE COMMUNICATIONS STATEMENT OF WORK AND E-05 FOR DETAILS.
- CONTRACTOR SHALL DEMO EXISTING 2'X4' LIGHTING AND PROVIDE NEW 2'X4' L.E.D. LIGHTING. SEE ELECTRICAL DRAWING(S).



1 PARTIAL RENOVATION SOUTH ANNEX PROPOSED RC PLAN - NORTH  
A-05 1/8" = 1'-0"



2 PARTIAL RENOVATION SOUTH ANNEX PROPOSED RC PLAN - SOUTH  
A-05 1/8" = 1'-0"



**ASBESTOS CONTAINING MATERIAL (ACM) AND LEAD BASED PAINT LEFT STATEMENT**  
 This facility contains ACM/Lead based materials. This facility does not contain ACM/Lead based materials. This facility contains ACM/Lead based materials but all the removal by the Air Force. This facility contains ACM/Lead based materials but all the removal by an ACM/Lead based contractor. This facility does not contain ACM/Lead based materials but all the removal by the Air Force.

Symbol	Description	Date	Appr

Designed By: HUS	Date: March 30, 2018
Drawn By: HUS	Contract No.:
Reviewed By:	Filename:
Submitted By:	Plot Date: March 30, 2018
	Plot Scale: AS SHOWN

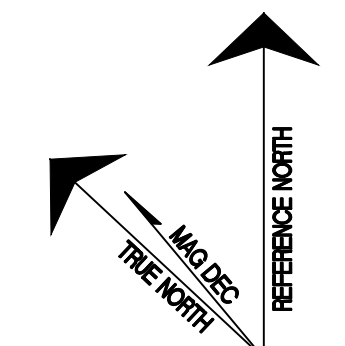
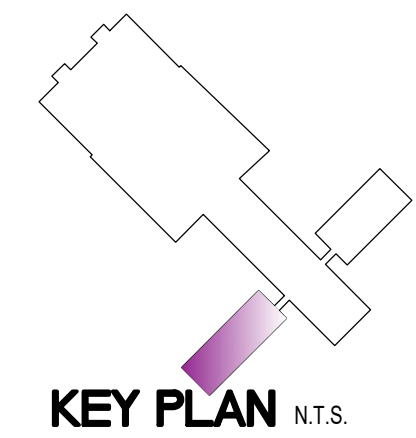
**PROJECT TITLE**  
 REPAIR - RENOVATE Building 3453  
 17th TRAINING WING  
 GOODFELLOW AIR FORCE BASE, TEXAS

**Project Number:**  
 GAFB Project #: 1060124

**SHEET TITLE**  
 PARTIAL PROPOSED  
 RC PLANS  
 SOUTH ANNEX

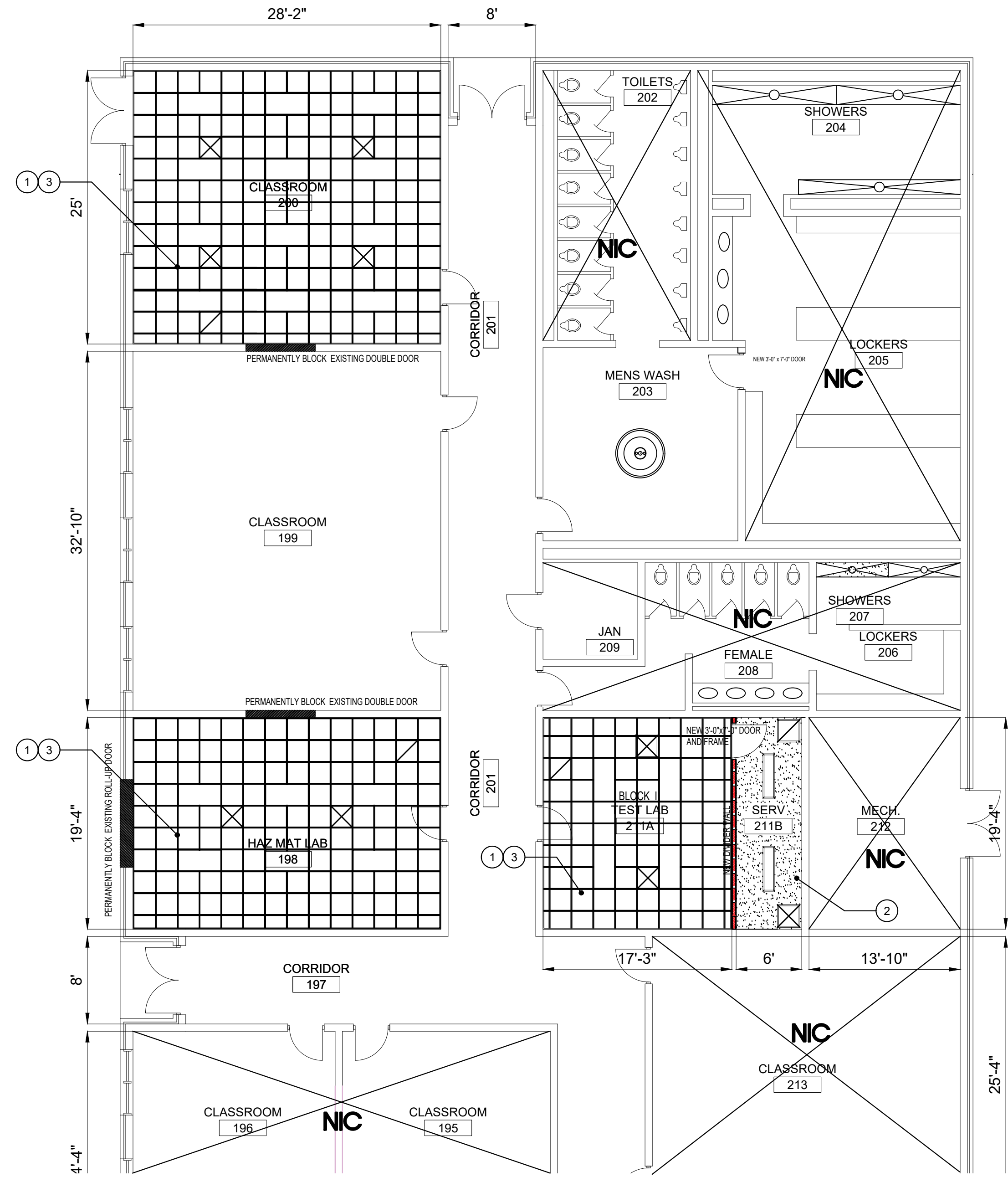
**Date:**  
 May 21, 2018

SEQ.	SHEET	OF
9	A-05	25



# RENOVATION PLAN NOTES

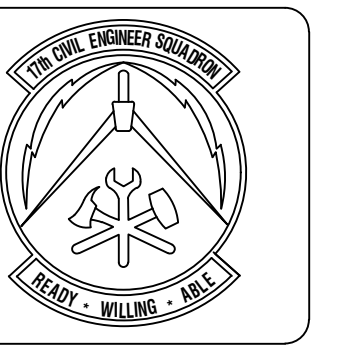
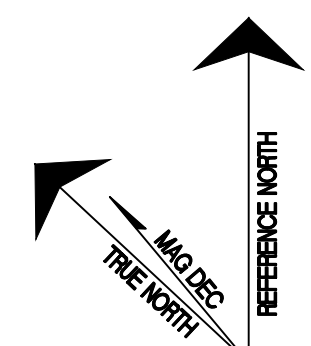
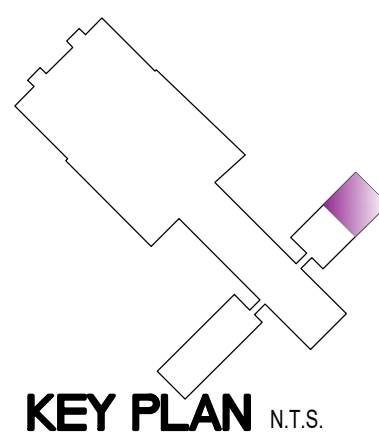
- ① CONTRACTOR SHALL DEMO EXISTING SUSPENDED CEILING GRID, ACOUSTIC TILES AND INSULATION AND PROVIDE NEW 2'X2' SUSPENDED CEILING GRID, ACOUSTIC TILES AND BATT INSULATION. REUSE EXISTING GRID TIES TO THE MAXIMUM EXTENT POSSIBLE.
- ② CONTRACTOR SHALL DEMO EXISTING SUSPENDED CEILING GRID, ACOUSTIC TILES AND INSULATION AND PROVIDE NEW HAT CHANNEL METAL FRAMING, 5/8" SHEETROCK WITH BATT INSULATION. SHEETROCK SHALL BE TAPED, FLOATED AND TEXTURED TO MATCH NEW WALL.
- ③ CONTRACTOR SHALL DEMO EXISTING 2'X4' LIGHTING AND PROVIDE NEW 2'X4' L.E.D. LIGHTING, SEE ELECTRICAL DRAWING(S).



1  
A-06

## PARTIAL RENOVATION NORTH ANNEX RC PLAN - NORTH

1/8" = 1'-0"



ASBESTOS CONTAINING MATERIAL (ACM) AND LEAD BASED PAINT (LBP) STATEMENT	
ACM	Lead based paint
None	None
This facility contains ACM/LBP materials that will be removed by an ACM/LBP contractor.	
This facility contains ACM/LBP materials that will be removed by an ACM/LBP contractor.	
This facility contains ACM/LBP materials that will be removed by an ACM/LBP contractor.	
This facility contains ACM/LBP materials that will be removed by an ACM/LBP contractor.	

Symbol	Description	Date	Appr.

Designed By: HJS	Date: March 30, 2018
Drawn By: HJS	Contract No.:
Reviewed By:	Filename: March 30, 2018
Submitted By:	Plot Date: March 30, 2018
	Plot Scale: AS SHOWN

PROJECT TITLE  
**REPAIR - RENOVATE Building 3453  
 17th TRAINING WING  
 GOODFELLOW AIR FORCE BASE, TEXAS**

Project Number:  
 GAFB Project #: 1060124

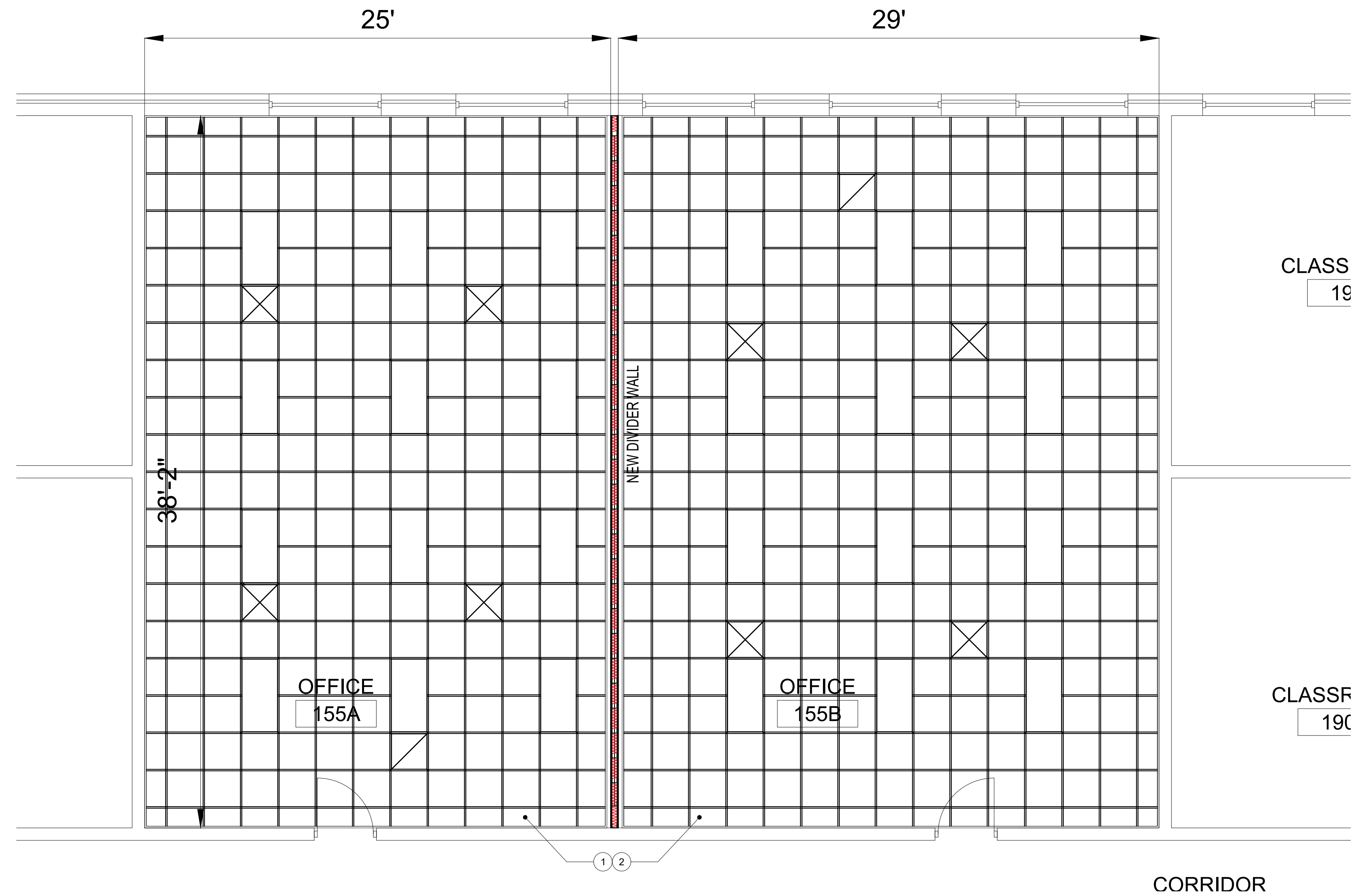
SHEET TITLE  
 NORTH ANNEX  
 RC PLANS

Date:  
 May 21, 2018

SEC.	SHEET	OF
10	A-06	25

# RENOVATION PLAN NOTES

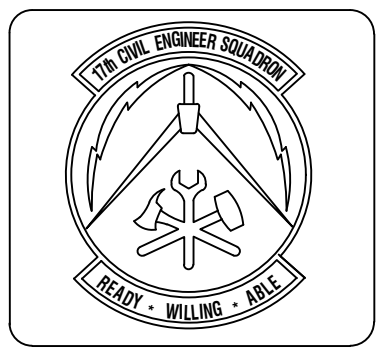
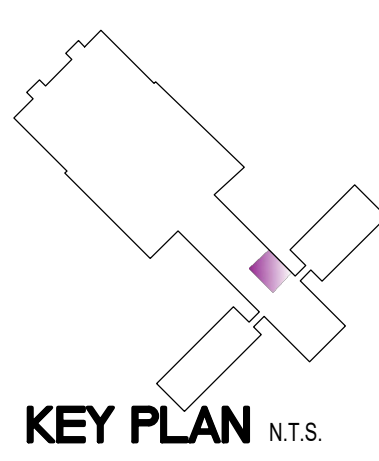
- ① CONTRACTOR SHALL DEMO EXISTING SUSPENDED CEILING GRID, ACOUSTIC TILES AND INSULATION AND PROVIDE NEW 2'X2' SUSPENDED CEILING GRID, ACOUSTIC TILES AND BATT INSULATION. REUSE EXISTING GRID TIES TO THE MAXIMUM EXTENT POSSIBLE.
- ② CONTRACTOR SHALL DEMO EXISTING 2'X4' LIGHTING AND PROVIDE NEW 2'X4' L.E.D. LIGHTING, SEE ELECTRICAL DRAWING(S).



1  
A-07

## PARTIAL RENOVATION MAIN BUILDING RC PLAN - EAST

1/4" = 1'-0"



**ASBESTOS CONTAINING MATERIAL (ACM) AND LEAD BASED PAINT (LBP) STATEMENT**  
 This facility does not contain ACM or LBP materials.  
 This facility does not contain ACM or LBP materials.  
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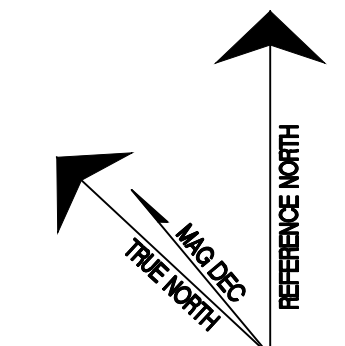
Symbol	Description	Date	Appr

Designed By: HJS	Date: March 30, 2018
Drawn By: HJS	Contract No.:
Reviewed By:	Filename:
Submitted By:	Plot Date: March 30, 2018
	Plot Scale: AS SHOWN

PROJECT TITLE  
**REPAIR - RENOVATE Building 3453  
 17th TRAINING WING  
 GOODFELLOW AIR FORCE BASE, TEXAS**

Project Number:  
 GAFB Project #: 1060124  
 SHEET TITLE  
**MAIN BUILDING  
 PARTIAL WEST  
 RC PLAN**  
 Date:  
 May XX, 2018

SEQ.	SHEET	OF
11	A-07	25



## FINISH SCHEDULE

PLAN	RM. NO.	SPACE	FLOOR	BASE	WALLS				CLG.	CLG. HT.	REMARKS
					NORTH	SOUTH	EAST	WEST			
WEST WING	118	OFFICE	F1	B1	W1	W1	W1	W1	C1	10'-0" AFF	
	125	OFFICE	F1	B1	W1	W1	W1	W1	C1	10'-0" AFF	
MAIN BLDG	155A	HAZMAT	F1	B1	W1	W1	W1	W1	C1	10'-0" AFF	
	155B	HAZMAT	F1	B1	W1	W1	W1	W1	C1	10'-0" AFF	
	163B	OFFICE	F1	B1	W1	W1	W1	W1	C1	10'-0" AFF	
NORTH ANNEX	197	CORRIDOR	-	-	-	-	-	-	-	-	
	198	HAZMAT LAB	F1	B1	W1	W1	W1	W1	C1	10'-0" AFF	
	199	CLASSROOM	F1	B1	W1	W1	W1	W1	C1	10'-0" AFF	
	200	CLASSROOM	F1	B1	W1	W1	W1	W1	C1	10'-0" AFF	
	203	MENS WASH	-	-	-	-	-	-	-	-	NO NEW FINISHES
	211	TEST LAB	F1	B1	W1	W1	W1	W1	C1	10'-0" AFF	
	201	CORRIDOR	-	-	-	-	-	-	-	-	
SOUTH ANNEX	216	OFFICE	F1	B1	W1	W1	W1	W1	C1	10'-0" AFF	
	217	OFFICE	F1	B1	W1	W1	W1	W1	C1	10'-0" AFF	
	220	CLASSROOM	F1	B1	W1	W1	W1	W1	C1	10'-0" AFF	
	221	CLASSROOM	F1	B1	W1	W1	W1	W1	C1	10'-0" AFF	
	223	CLASSROOM	F1	B1	W1	W1	W1	W1	C1	10'-0" AFF	
	224A	CLASSROOM	F1	B1	W1	W1	W1	W1	C1	10'-0" AFF	
	224B	CLASSROOM	F1	B1	W1	W1	W1	W1	C1	10'-0" AFF	
	225	CLASSROOM/LAB	F2	B2	W1	W1	W1	W1	C1	10'-0" AFF	
	226	CORRIDOR	-	-	-	-	-	-	C1	10'-0" AFF	
	227	SERVER ROOM	F1	B1	W1	W1	W1	W1	C1	10'-0" AFF	
	228	CLASSROOM	F1	B1	W1	W1	W1	W1	C1	10'-0" AFF	
	229A	CLASSROOM	F1	B1	W1	W1	W1	W1	C1	10'-0" AFF	
	234	ELECTRICAL ROOM	-	-	-	-	-	-	-	-	NO NEW FINISHES
	237	TESTING LAB	F1	B1	W1	W1	W1	W1	C1	10'-0" AFF	
240	CORRIDOR	-	-	-	-	-	-	C1	10'-0" AFF		
241	CORRIDOR	-	-	-	-	-	-	C1	10'-0" AFF		

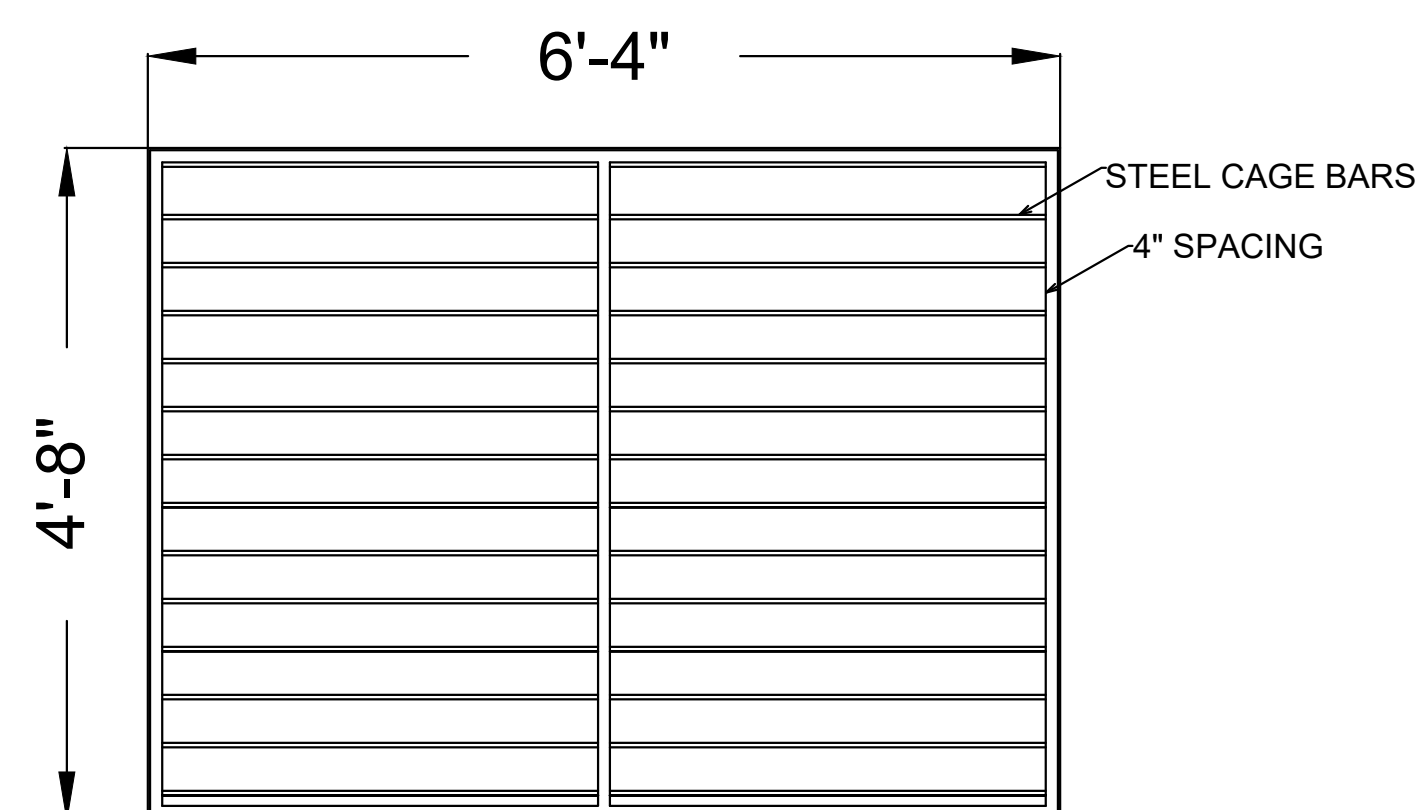
### FINISH SCHEDULE NOTES

- REFER TO SOW FOR ADDITIONAL INFORMATION ON CARPET, BASE AND CEILING TILE.
- WHERE COLOR IS SHOWN AS BEING SPECIFIC TO ONE MANUFACTURER, AN EQUIVALENT COLOR BY ANOTHER MANUFACTURER MAY BE SUBMITTED FOR APPROVAL.

MANUFACTURERS AND MATERIALS SPECIFIED ARE NOT INTENDED TO LIMIT THE SELECTION OF EQUAL COLORS FROM OTHER MANUFACTURERS.

FLOOR	F1	Carpet Tile Type IX Modular Tile, 18"x18" or 24"x24"
	F2	Vinyl Composition Tile, 12"x12", 1/8" Thick
BASE	B1	Type TP, Style A (Straight), 4" High, 1/8" Thick
	B2	Type TP, Style B (Coved), 4" High, 1/8" Thick
WALLS	W1	Interior Acrylic Latex Egshel SW 6035 Gauzy White (Sherwin Williams)
CEILING	C1	Ceiling tile, white, 2'x2'

### ARCHITECTURAL DETAILS

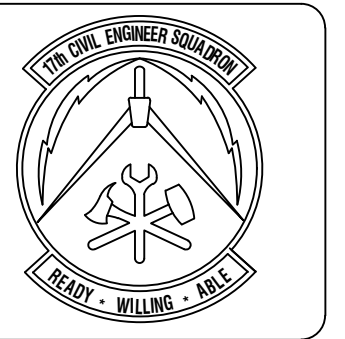


1 WINDOW STEEL CAGE DETAIL TYP.

3/4" = 1'-0"

### FURNISHING DEMO PLAN

Room #	Approx cubicle count	Picture
155	Remove approx. 30 cubicles. Remove Projector and Projector Mount, and return to government.	
125	Remove approx. 28 cubicles.	
118	Remove approx. 22 cubicles	
216	Remove approx. 19 cubicles. Remove Smartboard on north wall and return to government. Remove Projector and Projector Mount and return to government.	
220, 221, 224, 225, 228, 229	Remove Smartboard, Projector, Projector mounts, and marker boards. Return to government.	
227	Remove marker board ONLY. Return to government.	
237	Remove Smartboard and projector ONLY. Return to government. Leave the marker boards in place.	
178, 163B, 198, 199, 200, 211, 203, 223	No furniture to remove	



<b>ASBESTOS CONTAINING MATERIAL (ACM) AND LEAD-BASED PAINT (LBP) STATEMENT</b> Examined for ACM and LBP materials in accordance with the following: This facility does not contain ACM or LBP materials. This facility contains ACM or LBP materials but will not be removed for this project. This facility contains ACM or LBP materials but will be removed by the Project. This facility contains ACM or LBP materials but will be removed under this contract.
--

Symbol	Description	Date	Appr

Date: March 30, 2018 Contract No.: Drawn By: HJS Reviewed By: HJS Submitted By: File name: Photo March 30, 2018 Photo Scale: AS SHOWN
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**PROJECT TITLE**  
**REPAIR - RENOVATE Building 3453**  
**17th TRAINING WING**  
**GOODFELLOW AIR FORCE BASE, TEXAS**

**Project Number**  
 GAFB Project #: 1060124  
**SHEET TITLE**  
 ARCHITECTURAL  
 SCHEDULES,  
 LEGENDS, NOTES,  
 & DETAILS  
 Date: May 21, 2018

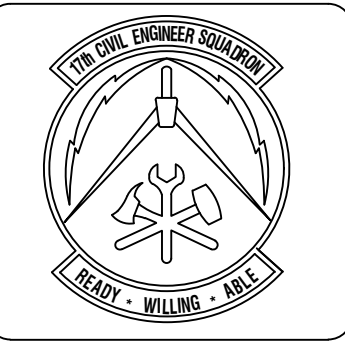
<b>SHEET</b> 12	<b>SHEET</b> A-08	<b>OF</b> 25
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# ELECTRICAL PLAN NOTES

- ① DEMO EXISTING 2'X4' LIGHTING AND EXIT SIGNS. PROVIDE NEW 2'X4' TUBULAR L.E.D LIGHTING.
- ② PROVIDE NEW L.E.D EXIT SIGNS WITH EMERGENCY LIGHT COMBO.
- ③ PROVIDE NEW EMERGENCY LIGHT TO MEET NFPA REQUIREMENTS.
- ④ PROVIDE NEW 120V DUPLEX ELECTRICAL OUTLET.
- ⑤ PROVIDE NEW 120V QUADPLEX ELECTRICAL OUTLET.
- ⑥ DEMO EXISTING LIGHT SWITCHES IN ROOM. PROVIDE NEW 3 WAY DIMMER SWITCHES.
- ⑦ DEMO EXISTING LIGHT SWITCH IN ROOM. PROVIDE NEW 1 WAY DIMMER SWITCH.
- ⑧ PROVIDE NEW ALUMINUM ALTP SERIES ROUND TELE-POWER POLES WITH 4 RECEPTACLES AND COMMUNICATIONS PORTS ATTACHED.
- ⑨ PROVIDE (5) NEW 120V 20A RECEPTACLE SUPPORTING SIPR SWITCH/UPS ON A DEDICATED CIRCUIT.
- ⑩ PROVIDE NEW 120V 30A PLUG SUPPORTING SSA-NET SERVER UPS AND (2) 200-240V L6-20R RECEPTACLES.
- ⑪ PROVIDE NEW DEDICATED 120V 20A (NEMA L6-20) RECEPTACLE WITH A DEDICATED BREAKER BOX ON WALL.
- ⑫ PROVIDE NEW DEDICATED 220V 30A (NEMA L6-30) WITH A DEDICATED BREAKER BOX ON WALL.
- ⑬ PROVIDE 120V 30A DEDICATED POWER OUTLET.
- ⑭ PROVIDE NEW UNINTERRUPTIBLE POWER SUPPLY.
- ⑮ PROVIDE NEW 75' LOW VOLTAGE BUSWAY WITH A WIDTH OF 3.60" AND A HEIGHT OF 8.30".
- ⑯ PROVIDE GROUNDING FOR BUSWAY
- ⑰ NO MORE THAN 2 QUADPLEX OUTLETS PER 20 AMP CIRCUIT.
- ⑱ NO MORE THAN 4 DUPLEX OUTLETS PER 20 AMP CIRCUIT.
- ⑲ PROVIDE NEW BREAKER, TRANSFORMER, & PANEL. REFER TO SHEET E-05.
- ⑳ DEMO EXISTING POWER POLES IN ROOM.
- ㉑ PROVIDE NEW L.E.D EXIT SIGNS.

## ELECTRICAL LEGEND

- 2' x 4' 3 bulb LED Recessed Light fixture
- 1' x 4' 1 bulb LED Recessed Light Fixture
- L.E.D Exit Light, Shading indicates lighted face
- L.E.D Exit Light With Emergency Combo Light, Shading indicates lighted face
- EMERGENCY LIGHT
- DUPLEX ELECTRICAL OUTLET
- QUADPLEX ELECTRICAL OUTLET
- SPECIAL ELECTRICAL OUTLET (REFER TO NOTES)
- POWER POLE
- ELECTRICAL DIM SWITCH
- LIGHT SWITCH



**ASBESTOS CONTAINING MATERIAL (ACM) AND LEAD BASED PAINT (LBP) STATEMENT**  
 Done for the record only. This is not a field inspection. This facility contains ACM/LBP materials. This facility contains ACM/LBP materials but will not be removed for this project. This facility contains ACM/LBP materials but will be removed by the Project. This facility contains ACM/LBP materials but will be removed under this contract.

Symbol	Description	Date	Appr

Designed By	Drawn By	Reviewed By	Submitted By
HUS	HUS	HUS	HUS

Date	Contract No.	File Name	Plot Scale
March 30, 2018		March 30, 2018	AS SHOWN

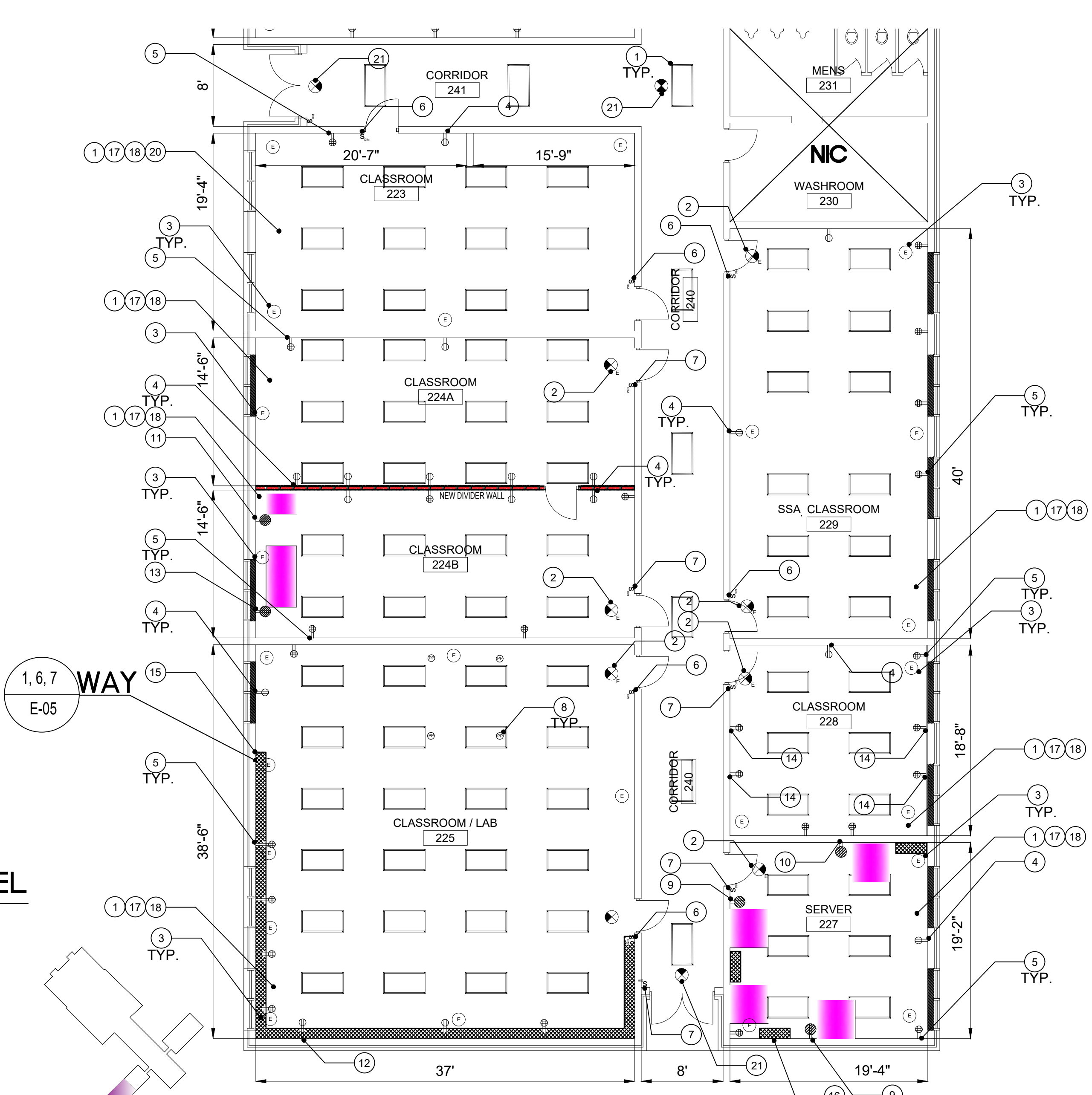
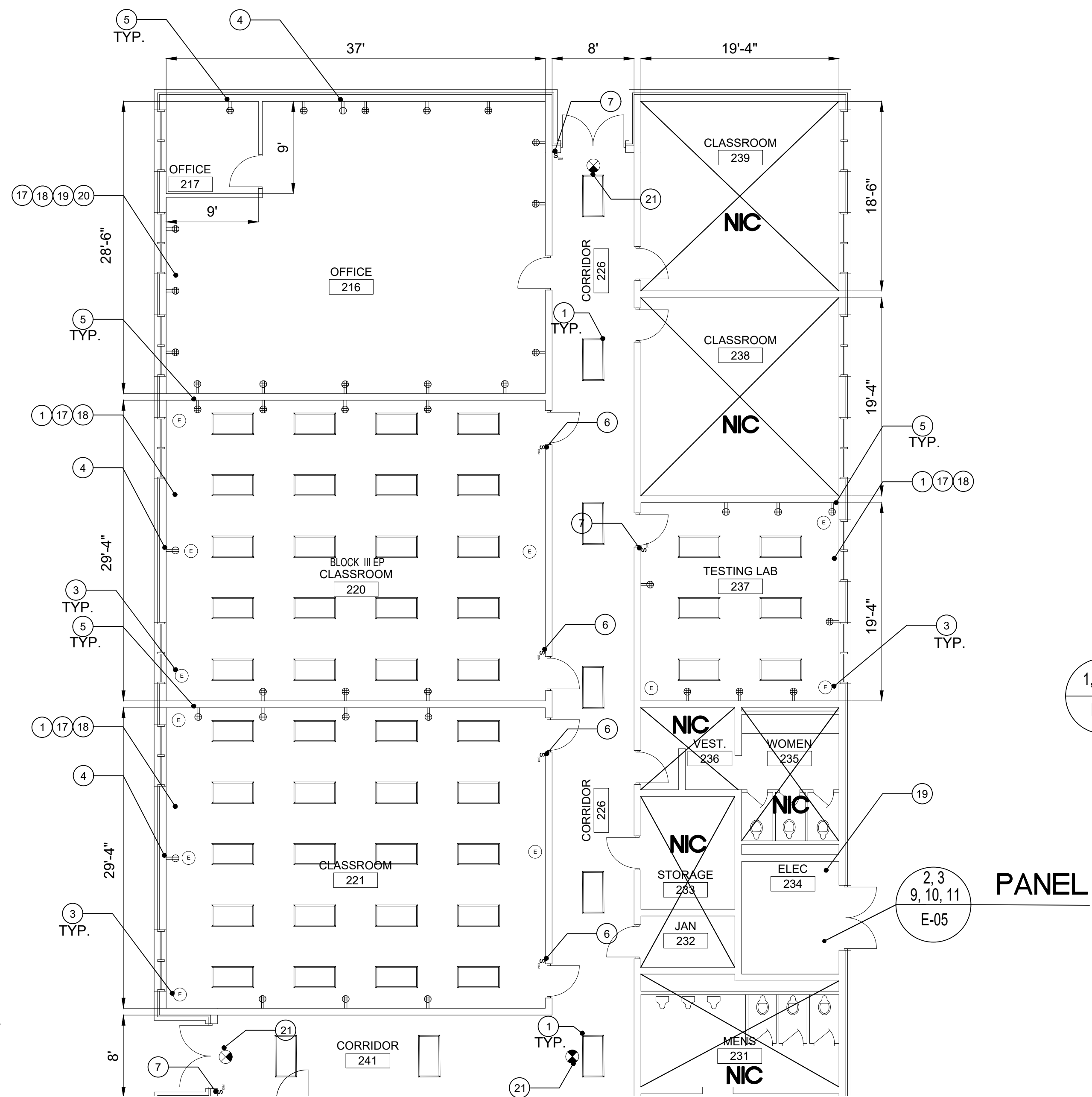
**PROJECT TITLE**  
 REPAIR - RENOVATE Building 3453  
 17th TRAINING WING  
 GOODFELLOW AIR FORCE BASE, TEXAS

**Project Number**  
 GAFB Project #: 1060124

**SHEET TITLE**  
 ELECTRICAL PLAN SOUTH ANNEX

**Date**  
 May 21, 2018

SEQ.	SHEET	OF
13	E-01	25



1  
E-01

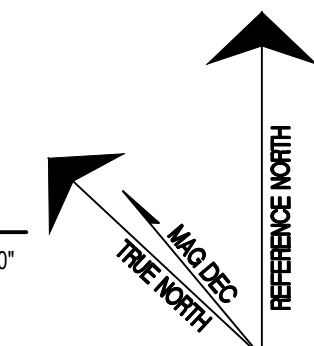
**KEY PLAN** N.T.S.  
**PARTIAL ELECTRICAL SOUTH ANNEX FLOOR PLAN - NORTH**

1/8" = 1'-0"

2  
E-01

**KEY PLAN** N.T.S.  
**PARTIAL ELECTRICAL SOUTH ANNEX FLOOR PLAN - SOUTH**

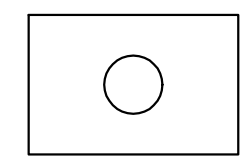
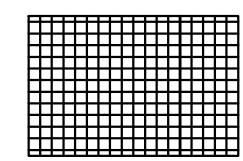


1/8" = 1'-0"

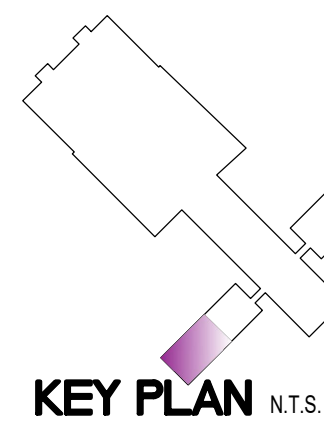
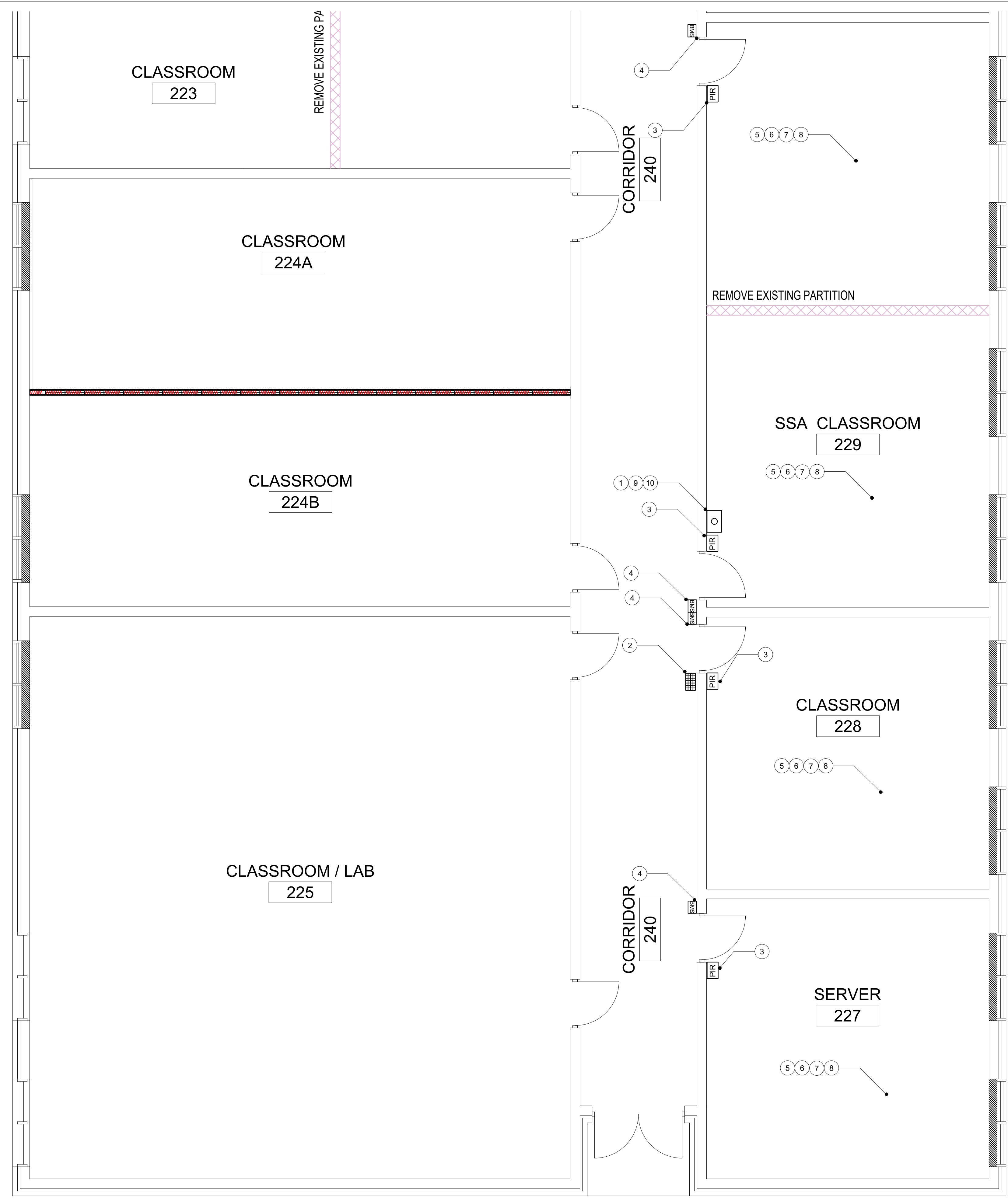


# INTRUSION DETECTION SYSTEM NOTES

- ① CONTRACTOR SHALL PROVIDE INFRAGUARD 1 ALARM PANEL.
- ② CONTRACTOR SHALL PROVIDE INFRATOUGH KEYPAD.
- ③ CONTRACTOR SHALL PROVIDE PIR (PASSIVE INFRARED).
- ④ CONTRACTOR SHALL PROVIDE BMS (BALANCED MAGNETIC SWITCH) ON DOOR.
- ⑤ CONTRACTOR SHALL PROVIDE OTHER ALARM COMPONENTS AS NECESSARY.
- ⑥ ENSURE SYSTEM IS FULLY FUNCTIONAL AND OPERATIONAL AT THE COMPLETION OF CONSTRUCTION.
- ⑦ CONTRACTOR SHALL PROVIDE SUBMITTAL PRIOR TO START OF CONSTRUCTION.
- ⑧ CONTRACTOR SHALL PROVIDE INTRUSION DETECTION SYSTEM SECURITY ALARMS FOR ROOMS 227, 228, 229A, AND 229B AND COMPLY WITH INTRUSION DETECTION SYSTEM SECURITY ALARM CHECKLIST SOW ATTACHMENT A.
- ⑨ PROVIDE DEDICATED POWER TO ALL INTRUSION DETECTION SYSTEM DEVICES WITH 120/208V 20A CIRCUIT TO INFRAGUARD 1 ALARM PANEL FROM NEW 120/208V THREE PHASE PANEL IN ROOM 234.
- ⑩ PROVIDE JUNCTION BOX WITH 2' OF WIRING

## IDS LEGEND

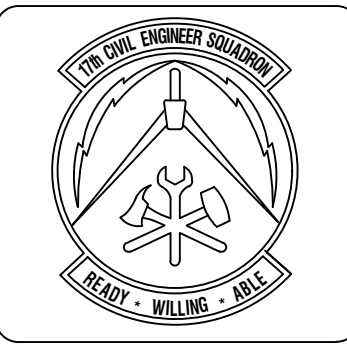
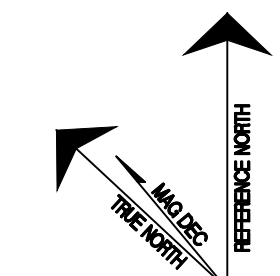
-  Infraguard 1 Alarm Panel
-  Infratouch Keypad
-  Passive Infrared
-  Balanced Magnetic Switch



1  
E-01.1

### INTRUSION DETECTION SYSTEM - SOUTH ANNEX

1/4" = 1'-0"



**DESIGNER'S CONTRACTOR'S MATERIALS LIST AND READY TO BE USED IN THE PROJECT**  
 This list contains ALL materials that will be used in the project.  
 This list does not contain ALL materials that will be used in the project.  
 This list contains ALL materials that will be used in the project.  
 This list contains ALL materials that will be used in the project.  
 This list contains ALL materials that will be used in the project.

Symbol	Description	Date	Appr

Designed By: HJS	Date: March 30, 2018
Drawn By: JKL	Contract No.:
Reviewed By:	Filename: March 30, 2018
Submitted By:	Plot Scale: AS SHOWN

**PROJECT TITLE**  
 REPAIR - RENOVATE Building 3453  
 17th TRAINING WING  
 GOODFELLOW AIR FORCE BASE, TEXAS

**Project Number:**  
 GAFB Project #: 1060124

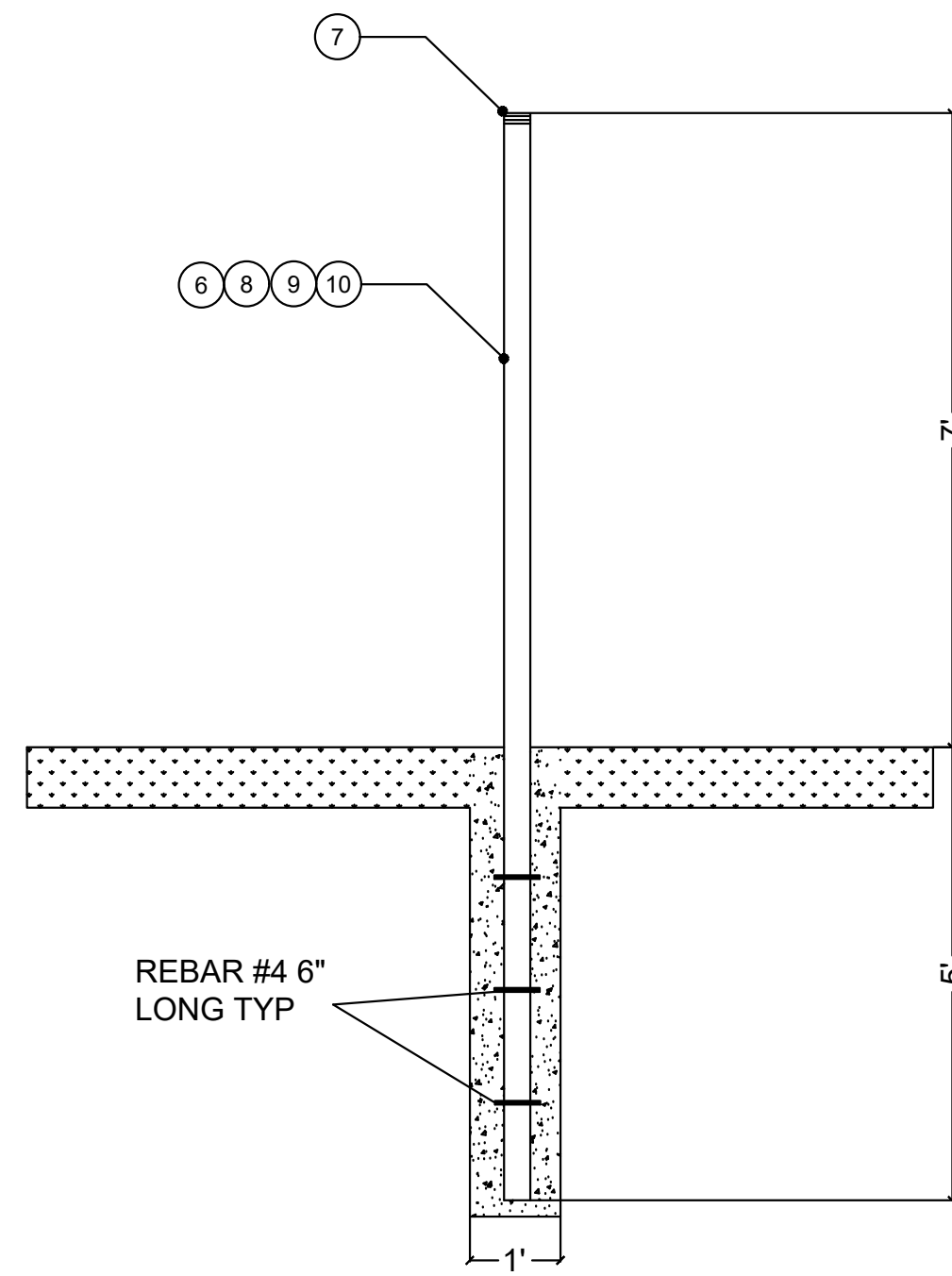
**SHEET TITLE**  
 INTRUSION DETECTION SYSTEM - S. ANNEX

**Date:**  
 May 21, 2018

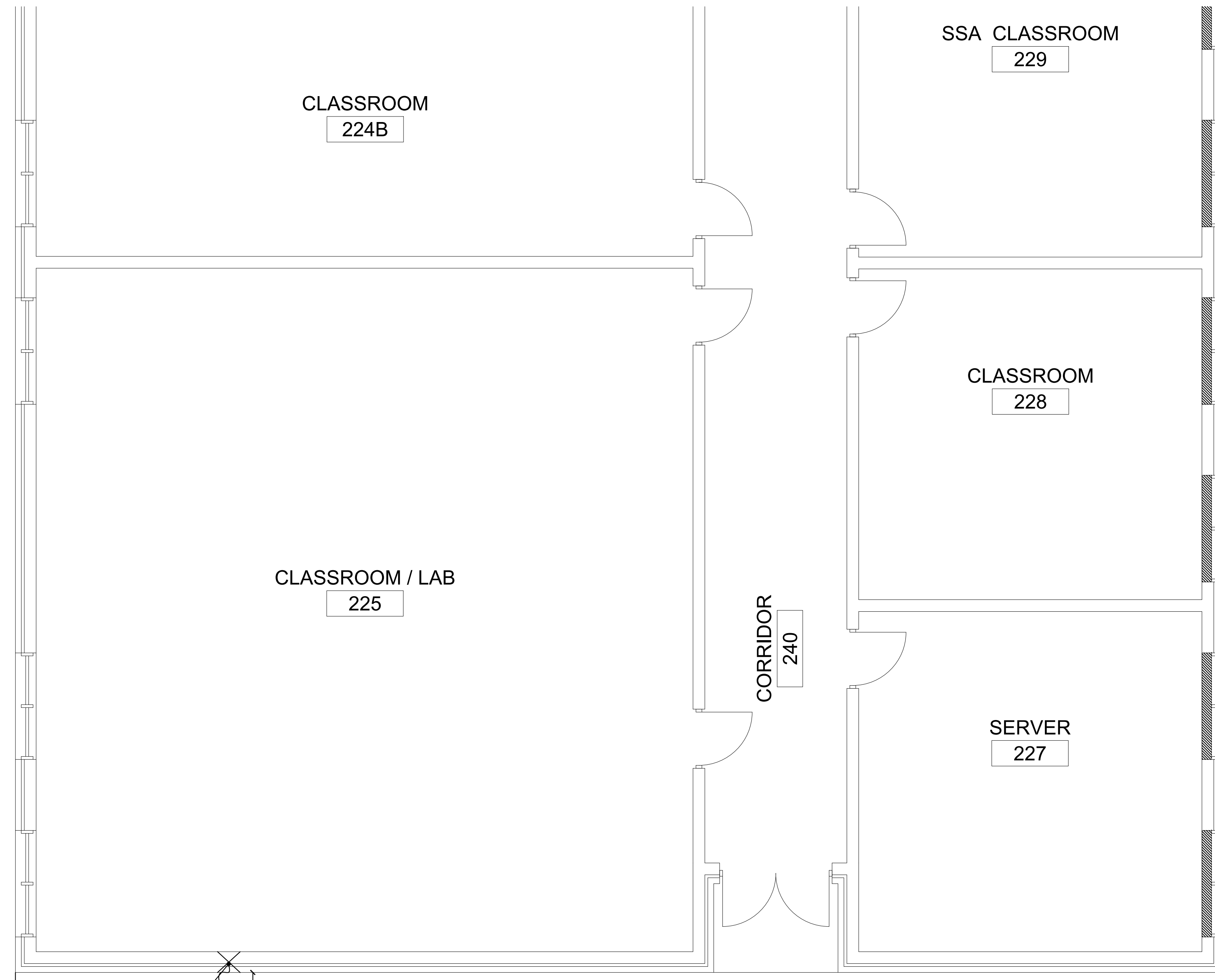
SEQ.	SHEET	OF
14	E-01.1	25

# ANTENNA AND SOLAR PANEL MAST NOTES

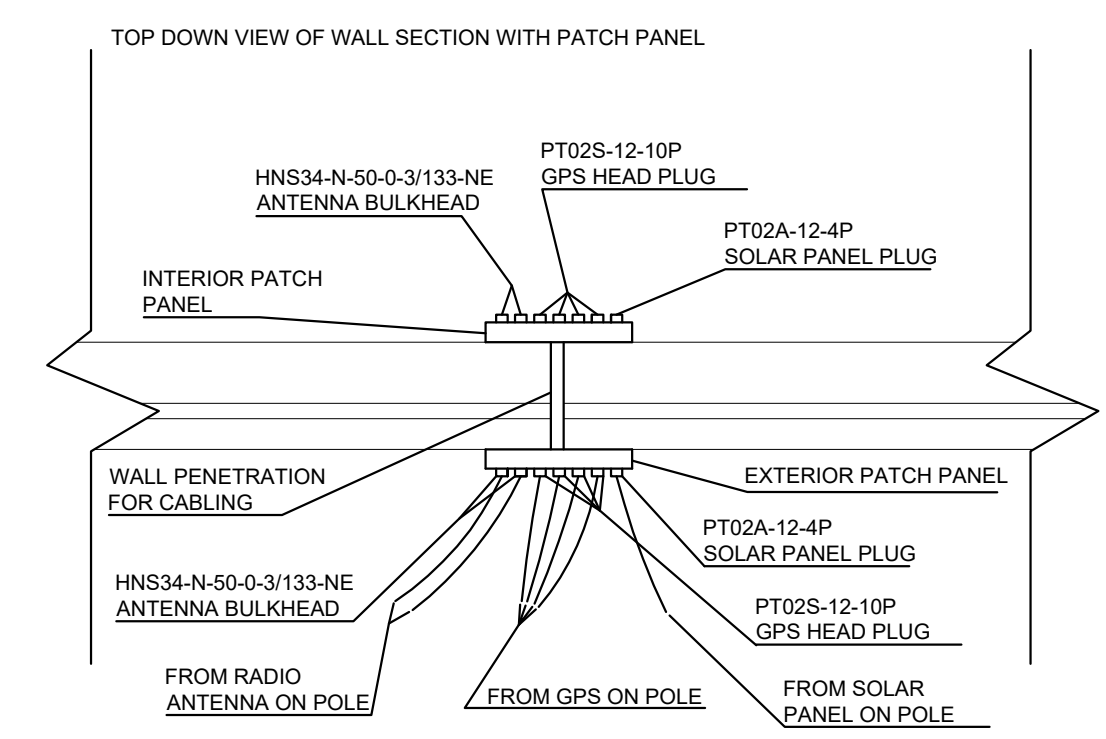
- ① CONTRACTOR SHALL PROVIDE A PASS-THROUGH PATCH PANEL FROM THE EXTERIOR WALL TO THE INTERIOR ROOM TO SUPPORT THE CABLING NECESSARY TO FEED THE EQUIPMENT MOUNTED ON THE MAST.
- ② THE EXTERIOR SIDE PATCH PANEL WILL BE FITTED WITH EXTERIOR GRADE CONNECTORS AND BE EQUIPPED WITH WEATHER AND WATERPROOF CAPS FOR ALL CONNECTORS. REQUIRED CONNECTORS ARE:  
 (2) HNS34-N-50-0-3/133NE BULKHEAD ADAPTER WITH LMR 400 CABLE INSIDE BOX FOR JUNCTION  
 (2) AMPHENOL PT02A-12-10P GPS HEAD PLUG  
 (1) PT02A-12-4P SOLAR PANEL PLUG
- ③ THE INTERIOR SIDE PATCH PANEL WILL BE FITTED WITH THE FOLLOWING REQUIRED CONNECTORS:  
 (2) HNS34-N-50-0-3/133NE BULKHEAD ADAPTER WITH LMR 400 CABLE INSIDE BOX FOR JUNCTION  
 (2) AMPHENOL PT02A-12-10P GPS HEAD PLUG  
 (1) PT02A-12-4P SOLAR PANEL PLUG
- ④ THE EXTERIOR SIDE PATCH PANEL CONNECTORS AND INTERIOR SIDE PATCH PANEL CONNECTORS WILL BE CONNECTED WITH APPROPRIATE CABLES. EQUIPMENT AND CABLES FROM EQUIPMENT TO PATCH PANELS WILL BE INSTALLED AFTERWARDS BY THE USER.
- ⑤ THE PASS THROUGH PANEL FROM ROOM 225 TO THE MAST LOCATION WILL BE INSTALLED AS NEAR TO GROUND LEVEL AS POSSIBLE AND REASONABLE, AND AS ADJACENT TO THE MAST LOCATION AS POSSIBLE.
- ⑥ CONTRACTOR SHALL PROVIDE ONE 12 FOOT GALVANIZED METAL POLE 3.5" IN DIAMETER.
- ⑦ TOP END OF THE MAST WILL BE CAPPED AS TO PREVENT WATER AND DEBRIS FROM ACCUMULATING IN THE MAST.
- ⑧ MAST WILL BE SUNK 60 INCHES INTO THE GROUND, PERPENDICULAR TO THE GROUND, WITH 84 INCHES OF MAST REMAINING ABOVE GROUND, AND SECURED BY A CONCRETE FOOTING OF APPROPRIATE DIMENSIONS AND STRENGTH TO MAINTAIN THE PERPENDICULAR ORIENTATION OF THE MAST UNDER THE FOLLOWING LOADS: THE MAST WILL BE CAPABLE OF SUPPORTING 40 POUNDS OF EQUIPMENT WHEN MOUNTED ONE FROM THE TOP OF THE MAST. ADDITIONALLY THE MAST WILL BE CAPABLE OF RESISTING WIND LOAD OF SAID EQUIPMENT WITH DIMENSIONS OF 24 INCHES BY 36 INCHES BY ONE INCH.
- ⑨ MAST WILL BE PERMANENTLY AND ELECTRICALLY GROUNDING FOR LIGHTNING PROTECTION PURPOSES TO AN EIGHT FOOT COPPER GROUNDING ROD SUNK 7.5 FOOT INTO THE GROUND AND ELECTRICALLY AND PHYSICALLY CONNECTED TO THE MAST WITH A COPPER GROUNDING CABLE AND FIXTURES OF THE TYPE TYPICALLY USED FOR LIGHTENING PROTECTION AND MAST GROUNDING.
- ⑩ SOLAR PANEL MAST TO BE INSTALLED BY OTHERS.
- ⑪ PROVIDE GROUNDING IN COMPLIANCE WITH THE NATIONAL ELECTRIC CODE.



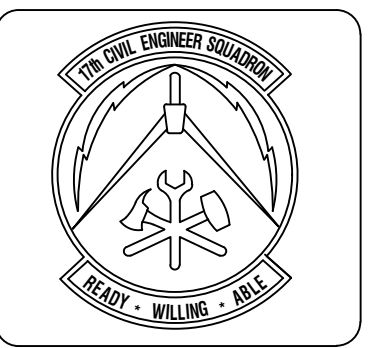
② ANTENNA AND SOLAR PANEL MAST POLE DETAIL  
 E-01.2 1/2" = 1'-0"



① ANTENNA AND SOLAR PANEL MAST - SOUTH ANNEX  
 E-01.2 1/4" = 1'-0"



③ ANTENNA AND SOLAR PANEL MAST - PATCH PANEL DETAIL  
 E-01.2 N.T.S.



DESIGNED BY: HUS  
 DRAWN BY: JKL  
 REVIEWED BY:  
 SUBMITTED BY:

Symbol	Description	Date	Appr

Date: March 30, 2018	Contract No.:	Filename: E-01.2.dwg	Plot Date: March 30, 2018	Plot Scale: AS SHOWN
Designed By: HUS	Drawn By: JKL	Reviewed By:	Submitted By:	

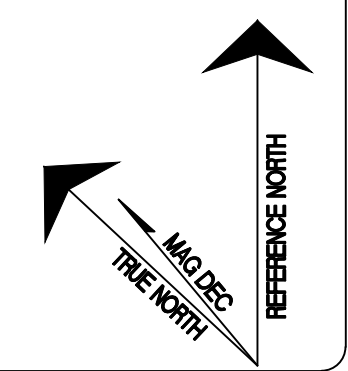
PROJECT TITLE  
**REPAIR - RENOVATE Building 3453  
 17th TRAINING WING  
 GOODFELLOW AIR FORCE BASE, TEXAS**

Project Number:  
 GAFB Project #: 1060124

SHEET TITLE  
**ANTENNA &  
 SOLAR PANEL  
 MAST - S ANNEX**

Date:  
 May 21, 2018

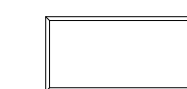
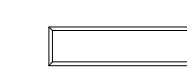







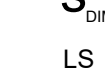

SEQ.	SHEET	OF
15	E-01.2	25

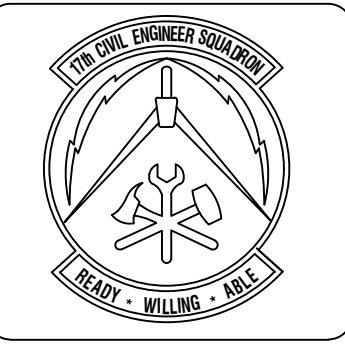


# ELECTRICAL PLAN NOTES

- ① DEMO EXISTING 2'X4' LIGHTING. PROVIDE NEW 2'X4' TUBULAR L.E.D LIGHTING.
- ② PROVIDE NEW 1'X4' TUBULAR L.E.D LIGHTING.
- ③ PROVIDE NEW 120V DUPLEX ELECTRICAL OUTLET.
- ④ DEMO EXISTING LIGHT SWITCHES AND PROVIDE NEW 1 WAY DIMMER SWITCHES.
- ⑤ NO MORE THAN 4 DUPLEX OUTLETS PER 20 AMP CIRCUIT.
- ⑥ PROVIDE NEW LIGHT SWITCH.
- ⑦ DEMO EXISTING POWER PANEL AND REMOVE CONDUIT AND CONDUCTORS BACK TO PANEL IN ROOM 212.
- ⑧ PROVIDE ADDITIONAL DEDICATED 120V 20A QUADPLEX OUTLET.
- ⑨ PROVIDE NEW EMERGENCY LIGHT TO MEET NFPA REQUIREMENTS.
- ⑩ PROVIDE GROUNDING FOR BUSWAY.

## ELECTRICAL LEGEND

-  2' x 4' 3 bulb LED Recessed Light fixture
-  1' x 4' 1 bulb LED Recessed Light fixture
-  L.E.D Exit Light, Shading indicates lighted face
-  L.E.D Exit Light With Emergency Combo Light, Shading indicates lighted face
-  EMERGENCY LIGHT
-  DUPLEX ELECTRICAL OUTLET
-  QUADPLEX ELECTRICAL OUTLET
-  SPECIAL ELECTRICAL OUTLET (REFER TO NOTES)
-  POWER POLE
-  ELECTRICAL DIM SWITCH
-  LIGHT SWITCH



**ASBESTOS CONTAINING MATERIAL (ACM) AND LEAD BASED PAINT (LBP) STATEMENT**  
 This facility contains ACM/LBP materials. This facility does not contain ACM/LBP materials. This facility contains ACM/LBP materials but will be removed for this project. This facility contains ACM/LBP materials but will be removed by the Project. This facility contains ACM/LBP materials but will be removed after this contract.

Symbol	Description	Date	APPR

Designed By:	Date:
HJS	March 30, 2018
Drawn By:	Contract No.:
HJS	
Reviewed By:	File name:
	March 30, 2018
Submitted By:	Plot Scale:
	AS SHOWN

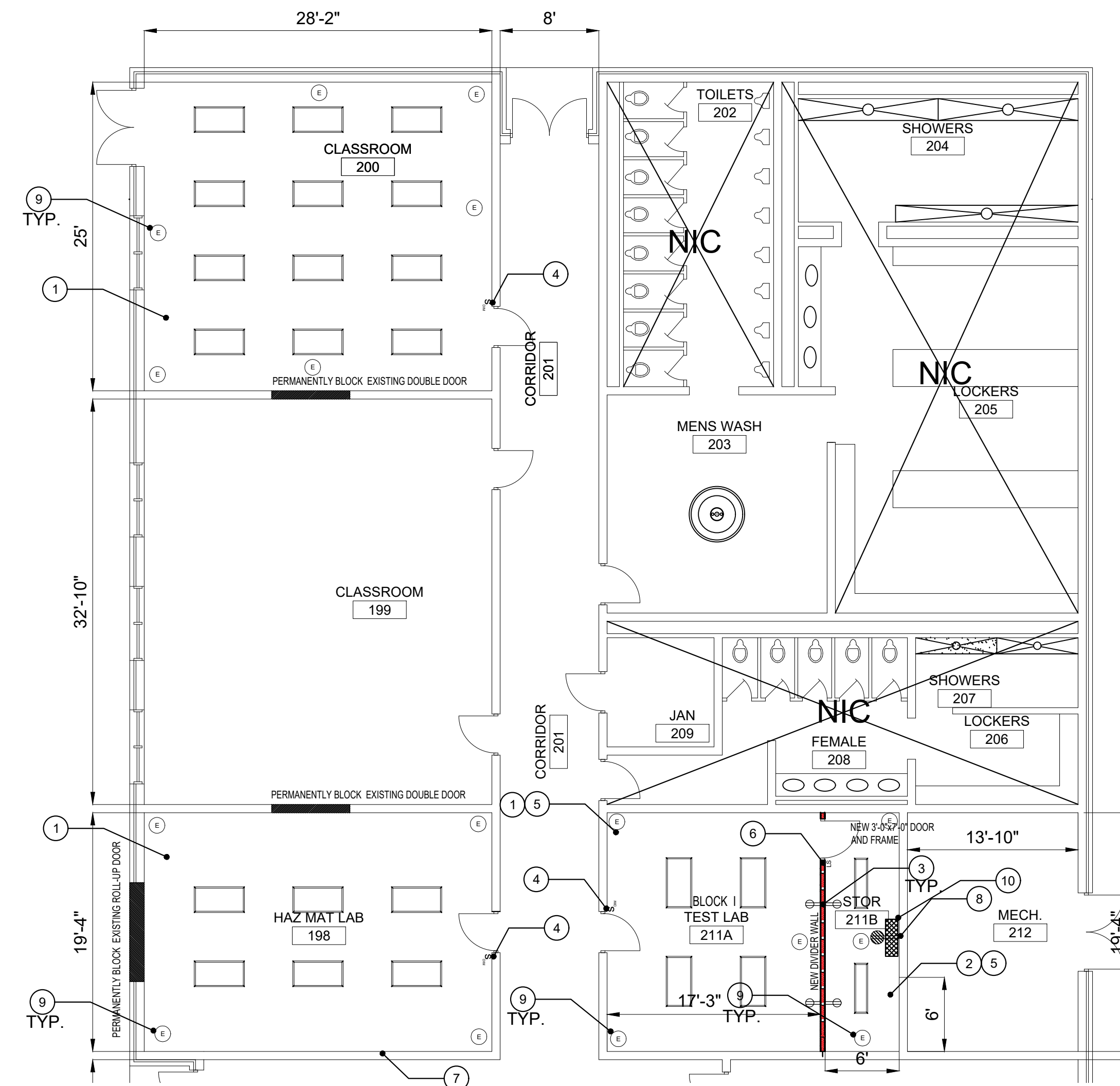
**PROJECT TITLE**  
 REPAIR - RENOVATE Building 3453  
 17th TRAINING WING  
 GOODFELLOW AIR FORCE BASE, TEXAS

**Project Number:**  
 GAFB Project #: 1060124

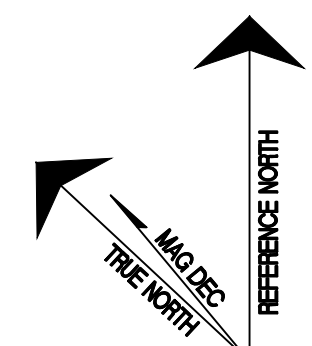
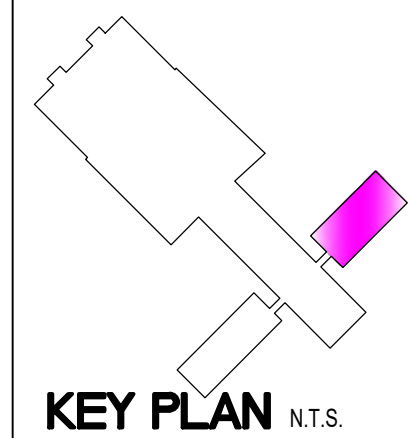
**SHEET TITLE**  
 ELECTRICAL  
 PLAN - NORTH  
 ANNEX

**Date:**  
 May 21, 2018

SEQ.	SHEET	OF
16	E-02	25



1  
 E-02  
**PARTIAL ELECTRICAL NORTH ANNEX FLOOR PLAN - NORTH**  
 1/8" = 1'-0"


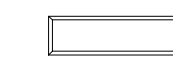




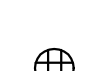


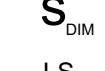



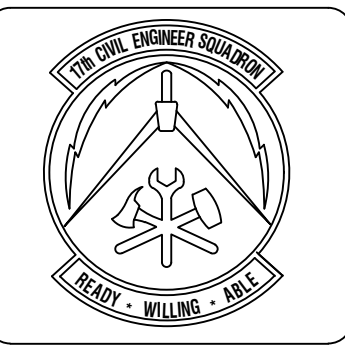


# ELECTRICAL PLAN NOTES

- 1 DEMO EXISTING 2'X4' LIGHTING AND EXIT SIGNS. PROVIDE NEW 2'X4' TUBULAR L.E.D LIGHTING AND L.E.D. EXIT SIGNS.
- 2 DEMO EXISTING LIGHT SWITCHES AND PROVIDE NEW 1 WAY DIMMER SWITCHES.
- 3 PROVIDE NEW 120V DUPLEX ELECTRICAL OUTLET.
- 4 PROVIDE NEW 120V QUADPLEX ELECTRICAL OUTLET.
- 5 NO MORE THAN 4 DUPLEX OUTLETS PER 20 AMP CIRCUIT.
- 6 NO MORE THAN 4 DUPLEX OUTLETS PER 20 AMP CIRCUIT.
- 7 DEMO EXISTING POWER POLES IN ROOM. PROVIDE NEW ALUMINUM ALTP SERIES ROUND TELE-POWER POLES WITH 4 RECEPTACLES AND COMMUNICATIONS PORTS ATTACHED.

## ELECTRICAL LEGEND

-  2' x 4' 3 bulb LED Recessed Light fixture
-  1' x 4' 1 bulb LED Recessed Light Fixture
-  L.E.D Exit Light, Shading indicates lighted face
-  L.E.D Exit Light With Emergency Combo Light, Shading indicates lighted face
-  EMERGENCY LIGHT
-  DUPLEX ELECTRICAL OUTLET
-  QUADPLEX ELECTRICAL OUTLET
-  SPECIAL ELECTRICAL OUTLET (REFER TO NOTES)
-  POWER POLE
-  ELECTRICAL DIM SWITCH
-  LIGHT SWITCH



**ASBESTOS CONTAINING MATERIAL (ACM) AND LEAD BASED PAINT (LBP) STATEMENT**  
 This drawing was prepared in accordance with the requirements of the Texas Health Code Chapter 249. The health code requires ACM and LBP materials to be removed from the project. The health code requires ACM and LBP materials to be removed from the project. The health code requires ACM and LBP materials to be removed from the project. The health code requires ACM and LBP materials to be removed from the project.

Symbol	Description	Date	Appr

Designed By: HUS	Date: March 30, 2018
Drawn By: HUS	Contract No.:
Reviewed By:	File name: March 30, 2018
Submitted By:	Plot Scale: AS SHOWN

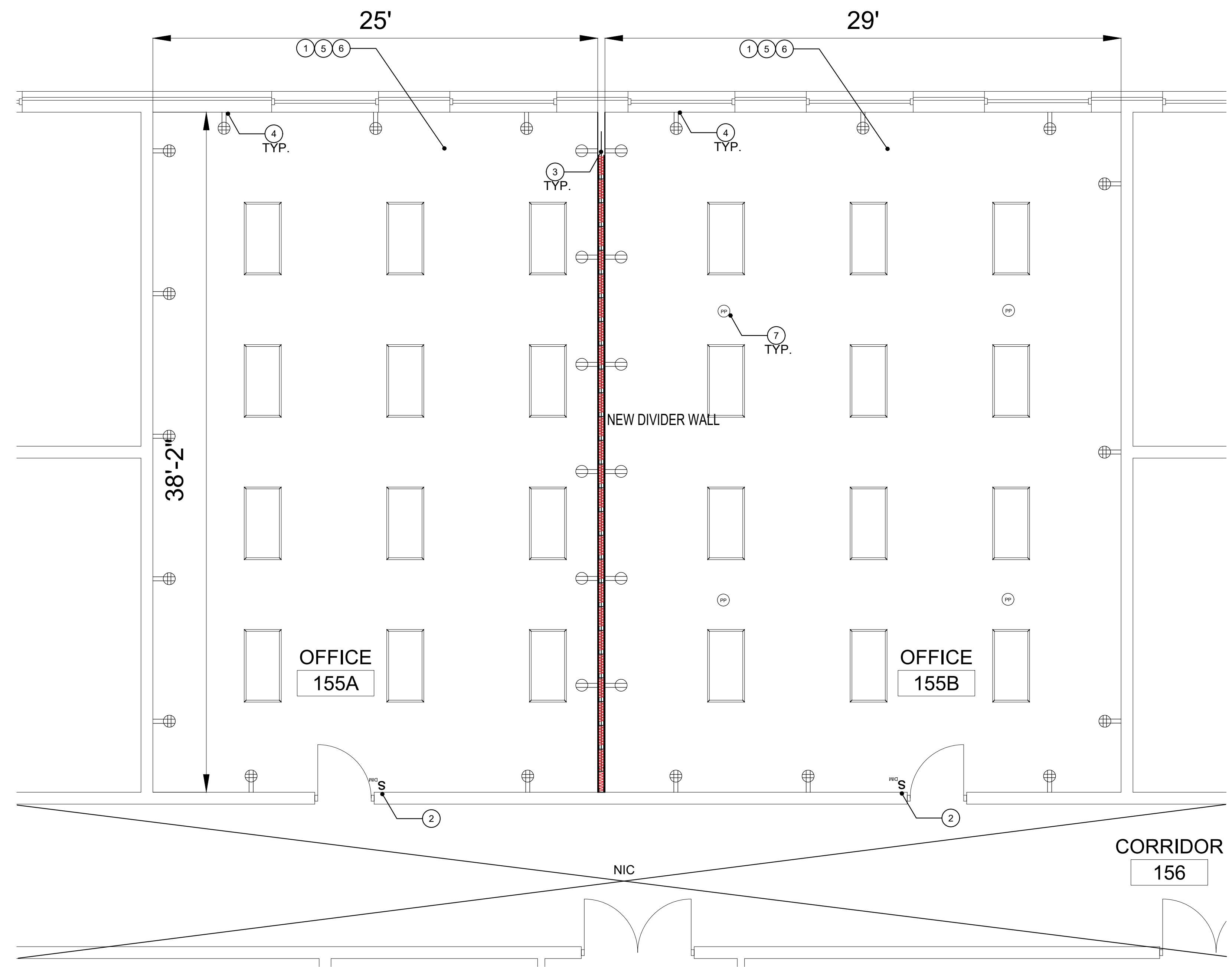
**PROJECT TITLE**  
 REPAIR - RENOVATE Building 3453  
 17th TRAINING WING  
 GOODFELLOW AIR FORCE BASE, TEXAS

**Project Number**  
 GAFB Project #: 1060124

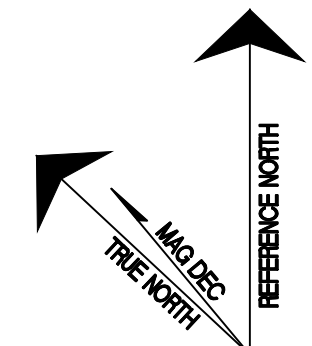
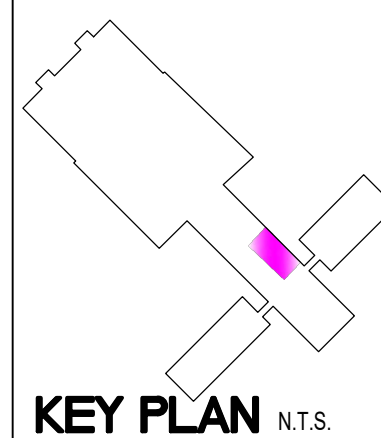
**SHEET TITLE**  
 ELECTRICAL PLAN  
 MAIN BLDG - WEST

**Date:**  
 May 21, 2018

SEQ.	SHEET	OF
17	E-03	25

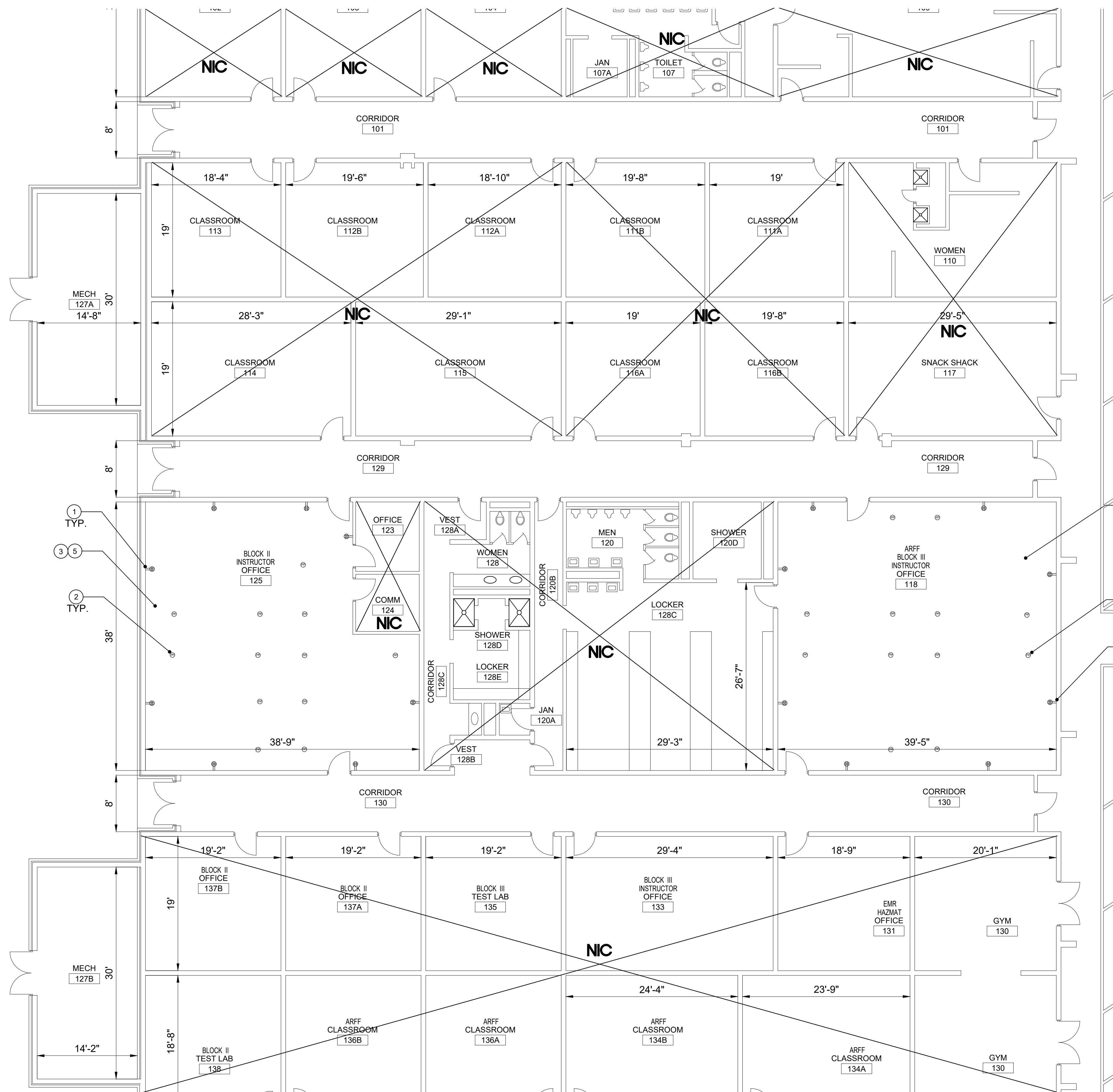


1  
 E-03  
**PARTIAL ELECTRICAL MAIN BUILDING - WEST**  
 1/4" = 1'-0"



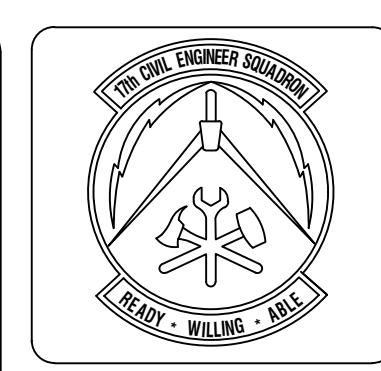
# ELECTRICAL PLAN NOTES

- 1 PROVIDE NEW 120V QUADPLEX ELECTRICAL OUTLET.
- 2 DEMO EXISTING ELECTRICAL POWER POLES. PROVIDE NEW ALUMINUM ALTP SERIES ROUND TELE-POWER POLES WITH 4 RECEPTACLES AND COMMUNICATIONS PORTS ATTACHED.
- 3 NO MORE THAN 2 QUADPLEX OUTLETS PER 20 AMP CIRCUIT.
- 4 CONNECT NEW OUTLET CIRCUITS TO EXISTING ELECTRICAL PANEL IN ROOM 118.
- 5 CONNECT NEW OUTLET CIRCUITS TO PANEL RP1A LOCATED IN MECH ROOM (ROOM 127B).



## ELECTRICAL LEGEND

- 2' x 4' 3 bulb LED Recessed Light fixture
- 1' x 4' 1 bulb LED Recessed Light Fixture
- L.E.D Exit Light, Shading indicates lighted face
- L.E.D Exit Light With Emergency Combo Light, Shading indicates lighted face
- EMERGENCY LIGHT
- DUPLX ELECTRICAL OUTLET
- QUADPLEX ELECTRICAL OUTLET
- SPECIAL ELECTRICAL OUTLET (REFER TO NOTES)
- POWER POLE
- ELECTRICAL DIM SWITCH
- LIGHT SWITCH



**DESIGNER'S CONTINUING EDUCATION (C.E.) CREDIT**  
 This design project has been reviewed and approved for 1.0 C.E. credit.  
 The total number of C.E. credits earned for this project is 1.0.  
 This credit is based on the project's completion date of 05/21/2018.  
 The total number of C.E. credits earned for all projects completed during the reporting period is 1.0.  
 This credit is based on the project's completion date of 05/21/2018.  
 The total number of C.E. credits earned for all projects completed during the reporting period is 1.0.

Symbol	Description	Date	Appr

Designed By:	Date:	Contract No.:	Submitted By:
HJS	March 30, 2018		
Drawn By:	Reviewed By:	File Name:	Plot Date:
HJS			March 30, 2018

**PROJECT TITLE**  
 REPAIR - RENOVATE Building 3453  
 17th TRAINING WING  
 GOODFELLOW AIR FORCE BASE, TEXAS

**Project Number**  
 GAFB Project #: 1060124

**SHEET TITLE**  
 ELECTRICAL PLAN  
 WEST WING - NORTH

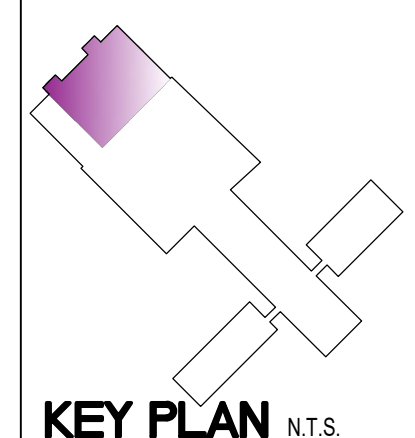
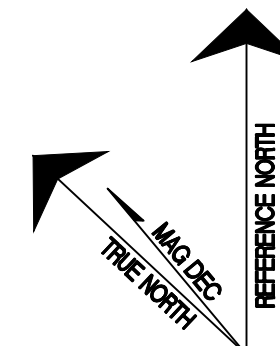
**Date**  
 May 21, 2018

SEQ.	SHEET	OF
18	E-04	25

## 1 PARTIAL RENOVATION WEST WING ELECTRICAL PLAN - NORTH

E-04

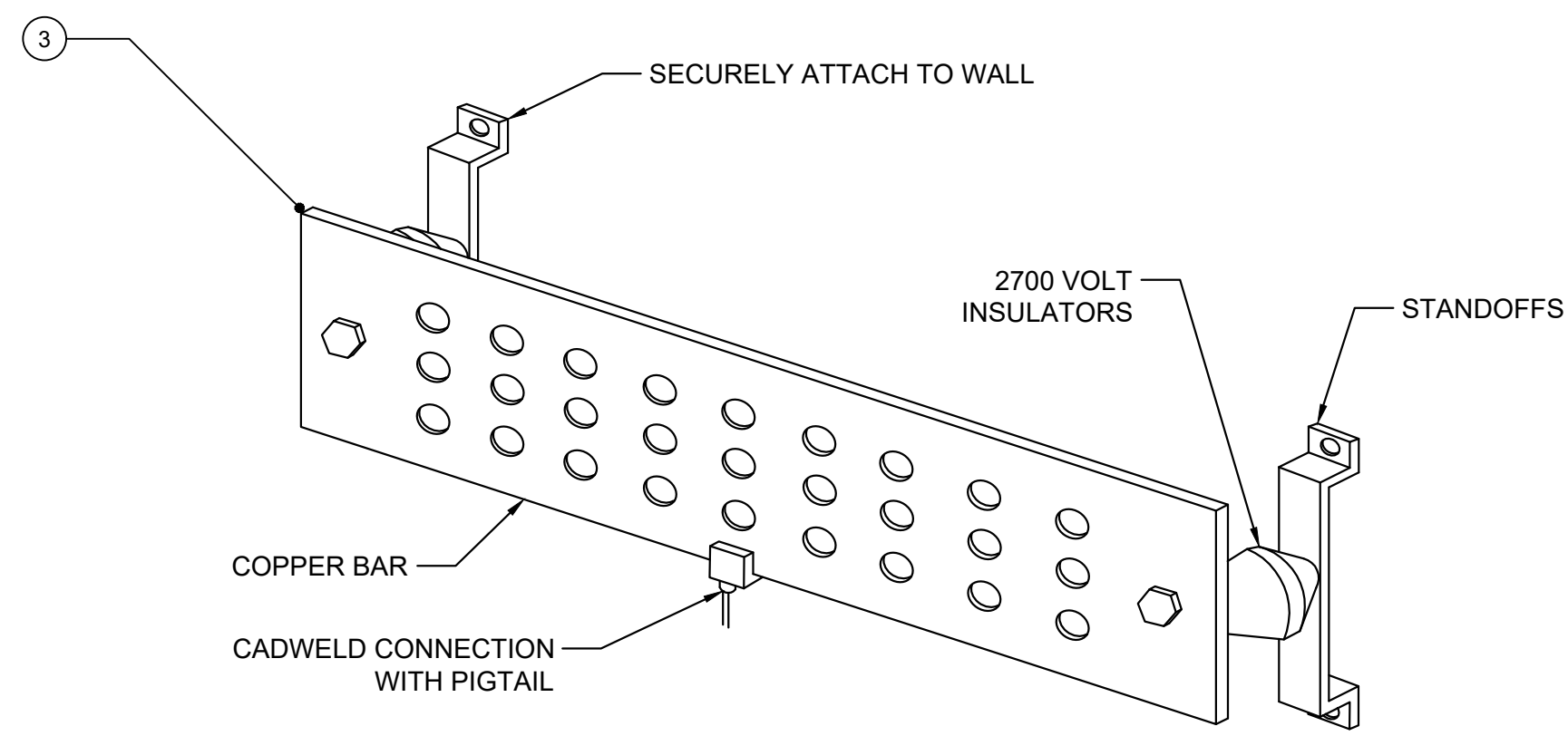
1/8" = 1'-0"



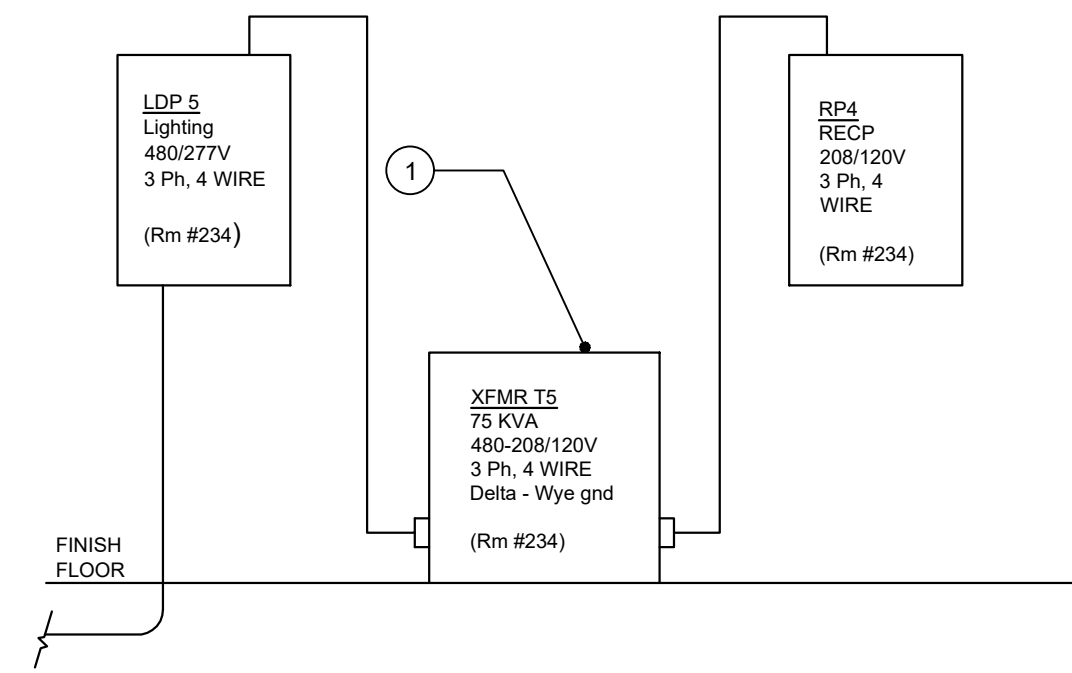
KEY PLAN N.T.S.

# ELECTRICAL DETAIL NOTES

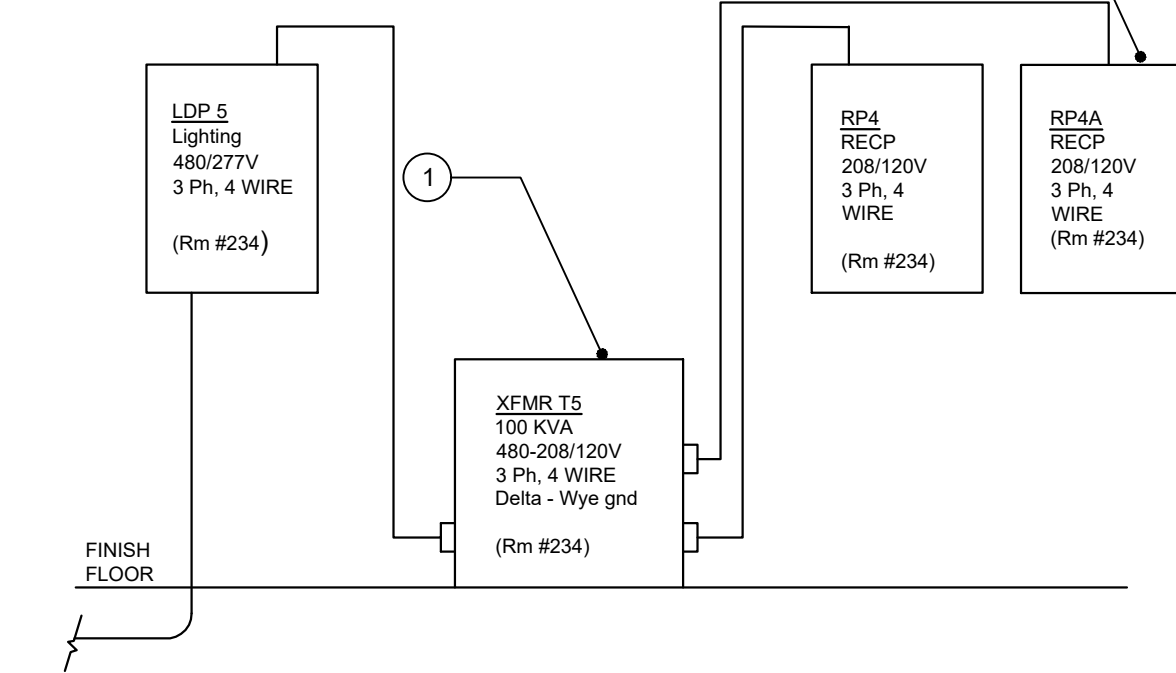
- ① DEMO 75KVA TRANSFORMER T5 IN ROOM 234. REPLACE WITH 100 KVA TRANSFORMER T5.
- ② PROVIDE NEW 208/120V 10,000 AMP ELECTRICAL PANEL. PANEL MUST HAVE A MAIN BREAKER.
- ③ PROVIDE LOW VOLTAGE BUS WAY WITH 1/4" DIAMETER CABLE.
- ④ IN ELECTRICAL PANEL LDP5, REPLACE CIRCUIT 37 WITH 480/277V 200 AMP BREAKER FOR NEW TRANSFORMER.
- ⑤ TYPICAL BUS WAY TO BE INSTALLED 7'-3" ABOVE FLOOR.
- ⑥ 100 AMP, 600V MAX, THREE PHASE, 4 WIRE NEUT AMPS 100
- ⑦ TYPICAL CABLE TRAY TO BE INSTALLED. TRAY IS 1'-2" IN WIDTH WITH DISCONNECT SWITCH.



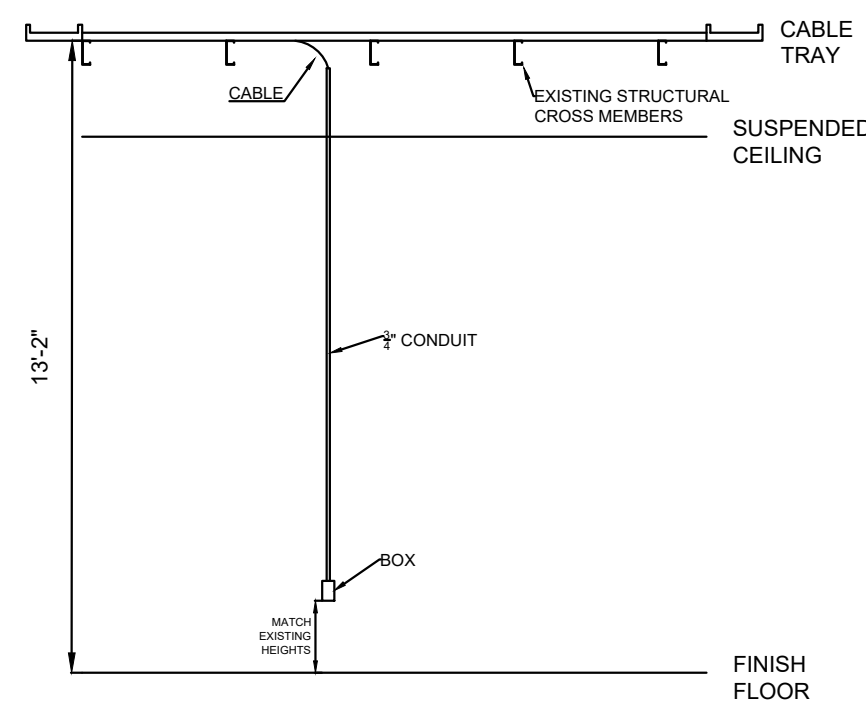
1 BUSWAY  
E-01 N.T.S.



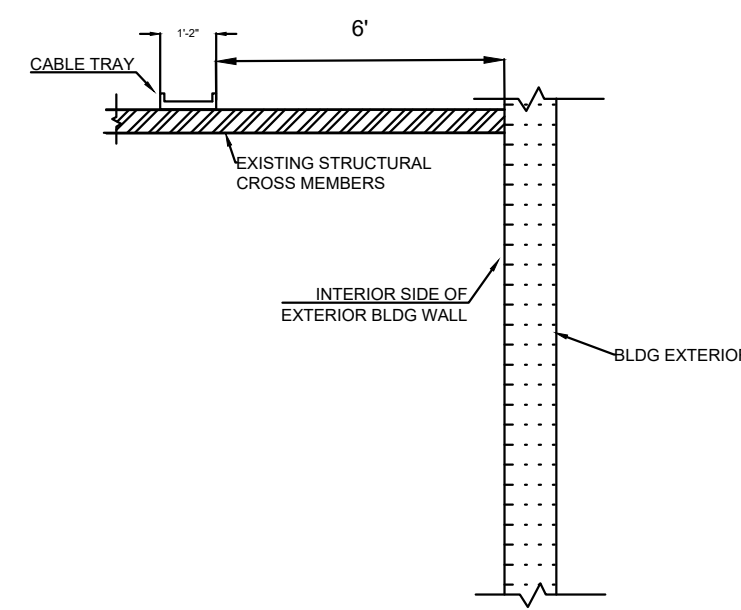
2 ELECTRICAL RISER DIAGRAM (EXISTING)  
E-01 N.T.S.



3 ELECTRICAL RISER DIAGRAM (PROPOSED)  
E-01 N.T.S.



4 CABLE TRAY  
E-01 1/4" = 1'-0"



5 CABLE TRAY  
E-01 1/4" = 1'-0"



6 BUSWAY/CABLE TRAY  
E-01 N.T.S.



7 BUSWAY BREAKER  
E-01 N.T.S.



8 BUSWAY/CABLE TRAY  
E-01 N.T.S.

PANEL COMPUTATION														
FIRE TRAINING BLDG - BASIC COURSES WING														
CIRCUIT BREAKER INTERRUPTING RATING 14,000 AMPS														
PANEL LDP5			VOLTS 480/277V			PHASE 3			WIRES 4			MCB 225 A		
CKT. NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA			LOAD SERVED	CKT. NO.	TRIP AMPS	NO. POLES				
				A	B	C								
1	20	1	LTG. RM #225	3520			LTG. RMS. #223 & 224	2	20	1				
3	20	1	LTG. RMS. #216, 217 & 221	4054	4324		LTG. RM. #220	4	20	1				
5	20	1	LTG. RMS. #222, 226, 235 THRU 239	2719	4480	4000	LTG. RMS. #227 THRU 234	6	20	1				
7	20	1	LTG. OUTSIDE	1757			EMERGENCY LIGHTS	8	20	1				
9	20	1	FC-5A, FC-2A, (2)FC-6A, FC-14A RMS 216, 220 & 221		1645		FC-3A (3), 5A & FC-7A RMS #225, 227, 228, 229	10	20	1				
11	20	1	FC-7A, FC-3A(2)		1580		FC-5A, 2A, 6A(2), 3A	12	20	1				
13	20	3	RMS 227, 238, 239 POV PARKING & STREET LIGHTS	600		1680	RMS 223, 224 & 229	14	20	1				
15		-			600		SPARE	16	20	1				
17		-				600		18	20	1				
19	20	1	SPARE SPACE				SPARE	20	20	1				
21								22	20	1				
23								24	20	1				
25								26	20	1				
27								28	20	1				
29								30	20	1				
31								32	20	1				
33								34	20	1				
35								36	20	1				
37	150	3	TRANSFORMER T5	25000				38	20	1				
39		-			25000			40	20	1				
41		-			25000			42	20	1				
TOTAL CONNECTED LOAD				110.2	TOTAL			37,660	36,129	36,600	TOTAL DEMAND LINE AMPS			136
ESTIMATED DEMAND LOAD				110.2										

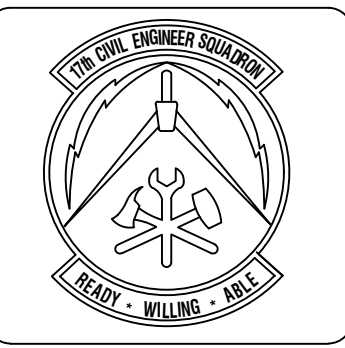
9 ELECTRICAL PANEL DIAGRAM (EXISTING)  
E-01 N.T.S.

PANEL COMPUTATION														
FIRE TRAINING BLDG - BASIC COURSES WING														
CIRCUIT BREAKER INTERRUPTING RATING 10,000 AMPS														
PANEL RP4			VOLTS 208/120V			PHASE 3			WIRES 4			MCB 225 A		
CKT. NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA			LOAD SERVED	CKT. NO.	TRIP AMPS	NO. POLES				
				A	B	C								
1	20	1	RECP RMS #216, 217 OUTSIDE	1800	1440		RECP RMS #227 & 228	2	20	1				
3	20	1	RECP RMS #216, 217, 220	1800	1800		RECP RMS #226, 228, 229 & OUTSIDE	4	20	1				
5	20	1	RECP RMS #220, 221, OUTSIDE	1620	1620		RECP RMS #226, 229	6	20	1				
7	20	1	RECP RMS #221, 222	1440	1800		RECP RMS #226, 232	8	20	1				
9	20	1	RECP RM 223	1620	1620		RMS 227	10	20	1				
11	20	1	RECP RM 224 & OUTSIDE	1800	1620		RECP RMS #237, 238	12	20	1				
13	20	1	RECP RMS #224, 225	1620	1200		OUTSIDE	14	20	1				
15	20	1	RECP RMS #225, 226 OUTSIDE	1620	400		ELEC. WATER COOLER	16	20	1				
17	20	1	LTG. RMS #223 & 224	1500	1800		TELE. PNL. RECP.	18	20	1				
19	20	1	LTG. RMS #237, 238, 239	1350	300		LTG. RMS 227, 228, 229	20	20	1				
21	20	1	PHOTOCELL PC-5	160			FIRE ALARM PNL RM #234	22	20	1				
23	20	1	SPARE				SPARE	24	20	1				
25	20	1		1080			SPARE	26	20	1				
27	20	1			1080		ROOM 216 WORK STATIONS	28	20	1				
29	20	1			1080			30	20	1				
31	20	1	EF-7A RM #231	528	1440		ROOM 216 COMPUTER CIRCUITS	32	20	1				
33	20	1	EF-12A RM #234		696	1440		34	20	1				
35	20	1	EF-15A RM 225			696		36	20	1				
37			SPACES	1440				38	20	1				
39								40	20	1				
41								42	20	1				
TOTAL CONNECTED LOAD				41	TOTAL			15,438	12,236	13,176	TOTAL DEMAND LINE AMPS			129
ESTIMATED DEMAND LOAD				41										

10 ELECTRICAL PANEL DIAGRAM (EXISTING)  
E-01 N.T.S.

PANEL COMPUTATION														
FIRE TRAINING BLDG - BASIC COURSES WING														
CIRCUIT BREAKER INTERRUPTING RATING 10,000 AMPS														
PANEL RP4A			VOLTS 208/120V			PHASE 3			WIRES 4			MCB 225 A		
CKT. NO.	TRIP AMPS	NO. POLES	LOAD SERVED	PHASE LOAD VA			LOAD SERVED	CKT. NO.	TRIP AMPS	NO. POLES				
				A	B	C								
1	20	1					RECP RMS #227 & 228	2	20	1				
3	20	1					RECP RMS #226, 228, 229 & OUTSIDE	4	20	1				
5	20	1					RECP RMS #226, 229	6	20	1				
7	20	1					RECP RMS #226, 232	8	20	1				
9	20	1					RMS 227	10	20	1				
11	20	1					RECP RMS #237, 238	12	20	1				
13	20	1					OUTSIDE	14	20	1				
15	20	1					ELEC. WATER COOLER	16	20	1				
17	20	1					TELE. PNL. RECP.	18	20	1				
19	20	1					LTG. RMS 227, 228, 229	20	20	1				
21	20	1					FIRE ALARM PNL RM #234	22	20	1				
23	20	1					SPARE	24	20	1				
25	20	1					SPARE	26	20	1				
27	20	1					ROOM 216 WORK STATIONS	28	20	1				
29	20	1						30	20	1				
31	20	1					ROOM 216 COMPUTER CIRCUITS	32	20	1				
33	20	1						34	20	1				
35	20	1						36	20	1				
37	20	1						38	20	1				
39	20	1						40	20	1				
41	20	1						42	20	1				
TOTAL CONNECTED LOAD					TOTAL						TOTAL DEMAND LINE AMPS			
ESTIMATED DEMAND LOAD														

11 ELECTRICAL PANEL DIAGRAM (PROPOSED)  
E-01 N.T.S.



ASBESTOS CONTAINING MATERIAL (ACM) AND LEAD-BASED PAINT (LBP) STATEMENT  
This facility contains ACM/LBP materials that will be removed by the contractor.  
This facility contains ACM/LBP materials that will be removed by the contractor.  
This facility contains ACM/LBP materials that will be removed by the contractor.  
This facility contains ACM/LBP materials that will be removed by the contractor.

Symbol	Description	Date	Appr

Designed By: HUS	Date: March 30, 2018
Drawn By: HUS	Contract No.:
Reviewed By:	File Name: March 30, 2018
Submitted By:	Plot Scale: AS SHOWN

PROJECT TITLE  
**REPAIR - RENOVATE Building 3453  
17th TRAINING WING  
GOODFELLOW AIR FORCE BASE, TEXAS**

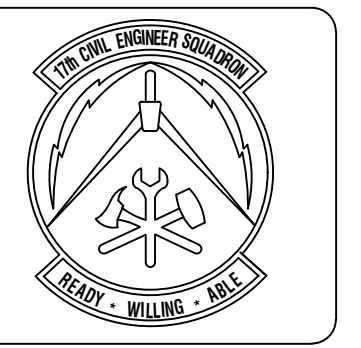
Project Number:  
GAFB Project #: 1061024  
SHEET TITLE  
**ELECTRICAL  
DETAILS**  
Date:  
May 21, 2018

# MECHANICAL PLAN NOTES

- 1 DEMO EXISTING FAN COIL UNITS, SUPPLY/RETURN DIFFUSERS, AND ALL ASSOCIATED HVAC IN ALL ROOMS WHERE NEW FAN COIL UNITS ARE TO BE INSTALLED.
- 2 PROVIDE NEW RETURN REGISTER IN NEW 2'X2' CEILING GRID CONNECTING TO NEW FAN COIL UNITS.
- 3 PROVIDE NEW RECTANGULAR SUPPLY DIFFUSER IN NEW 2'X2' CEILING GRID CONNECTING TO NEW FAN COIL UNITS. SUPPLY DIFFUSER SHALL BE TITUS OMNI OR EQUIVALENT. SUPPLY DIFFUSER NECK SIZE SHALL BE SIZED TO FIT ADJACENT ROUND DUCT IN EACH ROOM.
- 4 PROVIDE NEW FAN COIL UNITS, DUCTS, CONTROLS, AND SENSORS IN ROOMS LISTED. FAN COIL UNITS SHALL BE A COMPLETE PACKAGE LOCATED IN ROOM PLENUM THAT WILL TIE IN WITH BALL VALVES TO THE EXISTING CHILLED WATER SYSTEM AND INTEGRATED INTO BUILDING'S HVAC CONTROLS. FAN COIL UNIT SIZING INFORMATION PROVIDED ON SHEET M-04.
- 5 PROVIDE NEW TEMPERATURE SENSOR. CONNECT WITH NEW FAN COIL UNIT.
- 6 PROVIDE NEW INTERNATIONAL ENVIRONMENTAL CORPORATION HPD30 FAN COIL UNIT OR EQUIVALENT.
- 7 PROVIDE NEW INTERNATIONAL ENVIRONMENTAL CORPORATION HPY18 FAN COIL UNIT OR EQUIVALENT.
- 8 PROVIDE NEW INTERNATIONAL ENVIRONMENTAL CORPORATION HPY14 FAN COIL UNIT OR EQUIVALENT.
- 9 PROVIDE NEW INTERNATIONAL ENVIRONMENTAL CORPORATION HPY12 FAN COIL UNIT OR EQUIVALENT.
- 10 PROVIDE NEW INTERNATIONAL ENVIRONMENTAL CORPORATION HPY10 FAN COIL UNIT OR EQUIVALENT.

## MECHANICAL LEGEND

- Return Relief or Exhaust Register/Duckwork
- Rectangular Diffuser or Supply Duckwork
- TEMPERATURE SENSOR
- Fan Coil Unit
- Round Duct
- Rectangular Duct



**ASSESSORS CONFIRMING MATERIAL QUANTITIES AND LEAD BASED PAINT TEST STATEMENT**  
 Check the appropriate box(es) and place an "X" in the appropriate column.  
 This facility contains ACM or lead based paint.  
 This facility does not contain ACM or lead based paint.  
 This facility contains ACM or lead based paint but will be removed under the contract.  
 This facility contains ACM or lead based paint but will be removed under the contract.

Symbol	Description	Date	Appr

Prepared By	Drawn By	Reviewed By	Submitted By
HUS	HUS	HUS	HUS

Date	Contract No.	File Name	Plot Scale
March 30, 2018		March 30, 2018	AS SHOWN

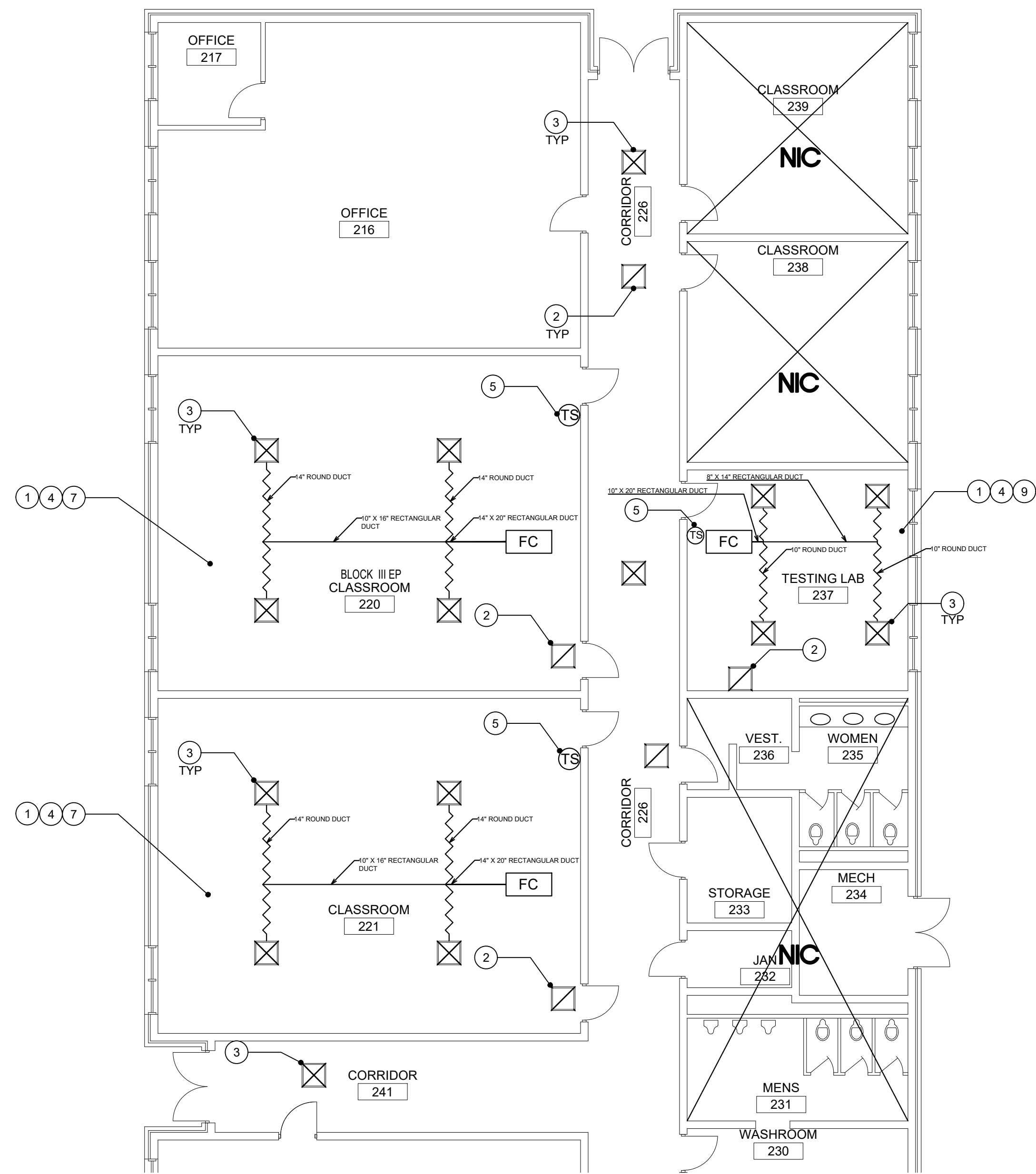
**PROJECT TITLE**  
 REPAIR - RENOVATE Building 3453  
 17th TRAINING WING  
 GOODFELLOW AIR FORCE BASE, TEXAS

**Project Number:**  
 GAFB Project #: 1060124

**SHEET TITLE**  
 SOUTH ANNEX  
 MECHANICAL  
 PLANS

**Date:**  
 May 21, 2018

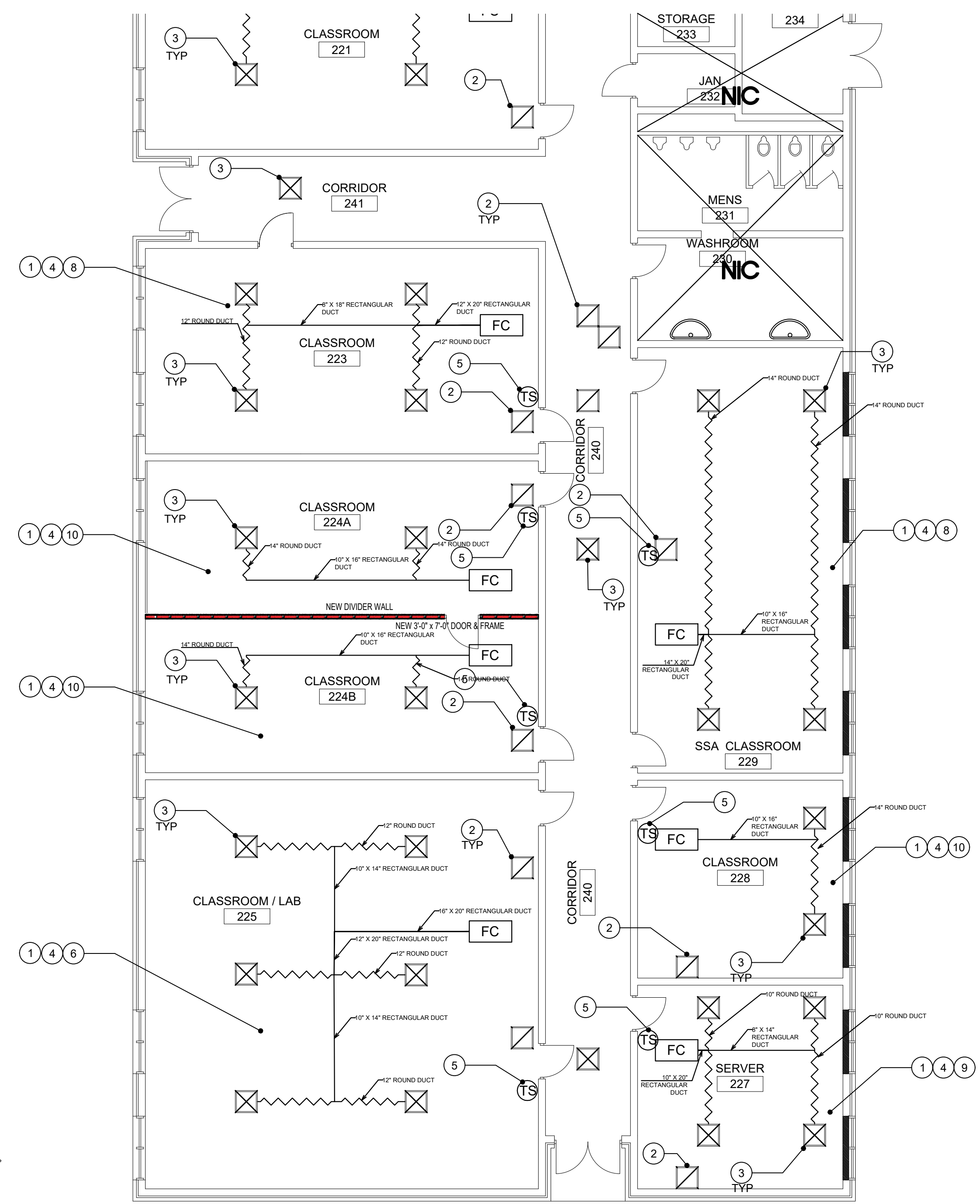
REQ.	SHEET	OF
20	M-01	25



**KEY PLAN** N.T.S.  
**PARTIAL RENOVATION SOUTH ANNEX MECHANICAL PLAN - NORTH**

1  
M-01

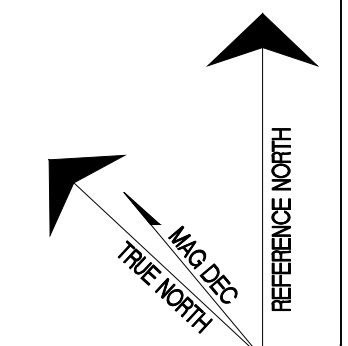
1/8" = 1'-0"



**KEY PLAN** N.T.S.  
**PARTIAL RENOVATION SOUTH ANNEX MECHANICAL PLAN - SOUTH**

2  
M-01





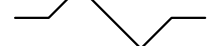

1/8" = 1'-0"

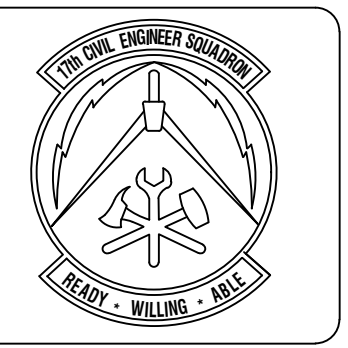


# MECHANICAL PLAN NOTES

- ① DEMO EXISTING FAN COIL UNITS, SUPPLY/RETURN DIFFUSERS, AND ALL ASSOCIATED HVAC IN ALL ROOMS WHERE NEW FAN COIL UNITS ARE TO BE INSTALLED.
- ② PROVIDE NEW RETURN REGISTER IN NEW 2'X2' CEILING GRID CONNECTING TO NEW FAN COIL UNITS.
- ③ PROVIDE NEW RECTANGULAR DIFFUSER IN NEW 2'X2' CEILING GRID CONNECTING TO NEW FAN COIL UNITS. SUPPLY DIFFUSER SHALL BE TITUS OMNI OR EQUIVALENT. SUPPLY DIFFUSER NECK SIZE SHALL BE SIZED TO FIT ADJACENT ROUND DUCT IN EACH ROOM.
- ④ PROVIDE NEW FAN COIL UNITS, DUCTS, CONTROLS, AND SENSORS IN ROOMS LISTED. FAN COIL UNITS SHALL BE A COMPLETE PACKAGE LOCATED IN ROOM PLENUM THAT WILL TIE IN WITH BALL VALVES TO THE EXISTING CHILLED WATER SYSTEM AND INTEGRATED INTO BUILDING'S HVAC CONTROLS. FAN COIL UNIT SIZING INFORMATION PROVIDED ON SHEET M-04.
- ⑤ PROVIDE NEW TEMPERATURE SENSOR. CONNECT WITH NEW FAN COIL UNIT.
- ⑥ PROVIDE NEW INTERNATIONAL ENVIRONMENTAL CORPORATION HPY12 FAN COIL UNIT OR EQUIVALENT.
- ⑦ PROVIDE NEW INTERNATIONAL ENVIRONMENTAL CORPORATION HPY10 FAN COIL UNIT OR EQUIVALENT.
- ⑧ PROVIDE NEW INTERNATIONAL ENVIRONMENTAL CORPORATION CPY06 FAN COIL UNIT OR EQUIVALENT.

## MECHANICAL LEGEND

-  Return Relief or Exhaust Register/Duckwork
-  Rectangular Diffuser or Supply Duckwork
-  TEMPERATURE SENSOR
-  Fan Coil Unit
-  Round Duct
-  Rectangular Duct



**ASBESTOS CONTAINS MATERIAL, PCB'S AND LEAD-BASED PAINT IDENTIFICATION**  
 This facility does not contain ASBESTOS materials.  
 This facility does not contain PCB materials.  
 This facility contains LEAD-BASED PAINT materials that will be removed under the contract.  
 This facility contains ASBESTOS materials that will be removed under the contract.  
 This facility contains PCB materials that will be removed under the contract.

Symbol	Description	Date	Appr

Designed By	Date	Contract No.
HJS	March 30, 2018	
Drawn By		
HJS		
Reviewed By		
Submitted By		

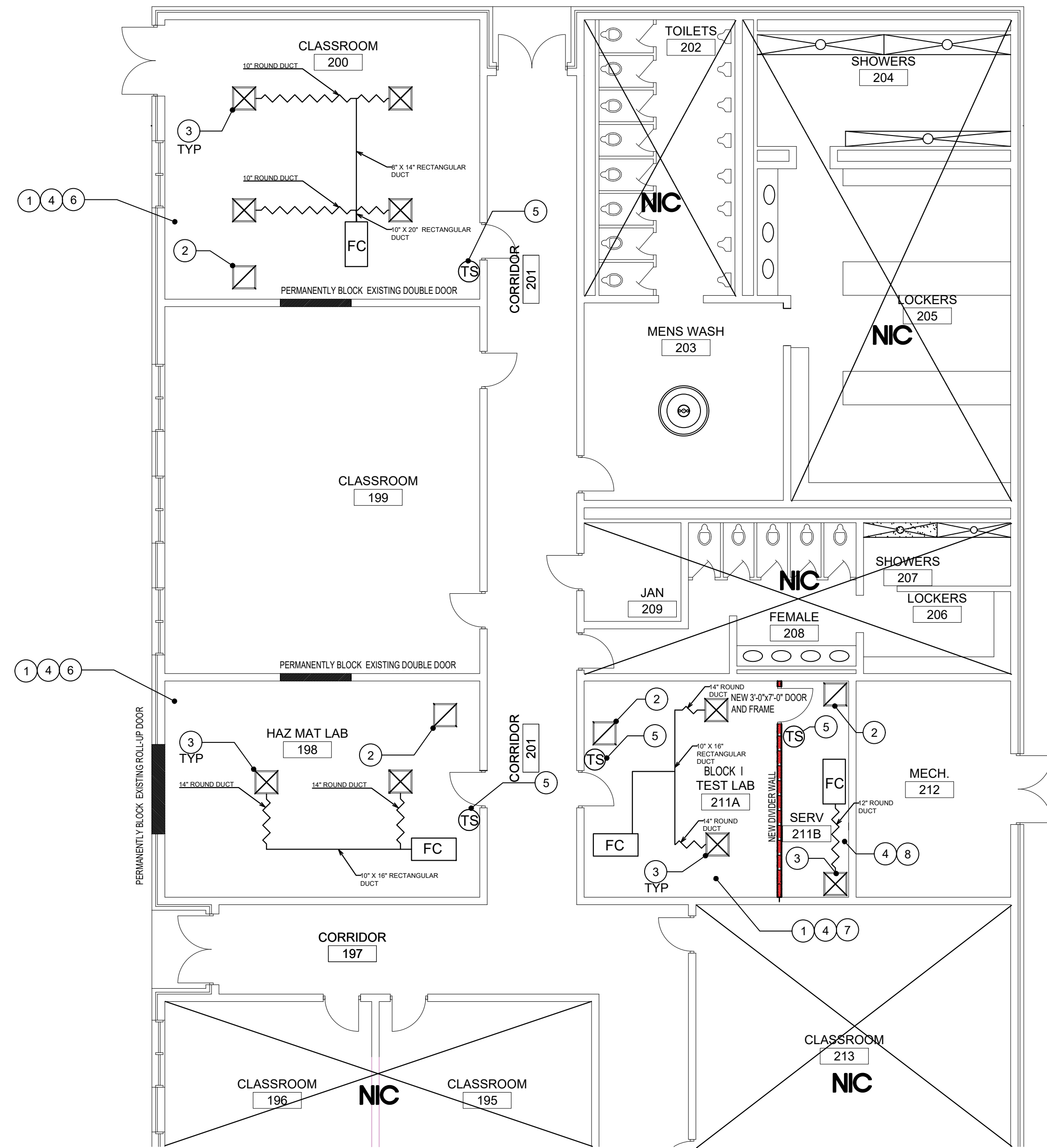
**PROJECT TITLE**  
 REPAIR - RENOVATE Building 3453  
 17th TRAINING WING  
 GOODFELLOW AIR FORCE BASE, TEXAS

**Project Number:**  
 GAFB Project #: 1060124

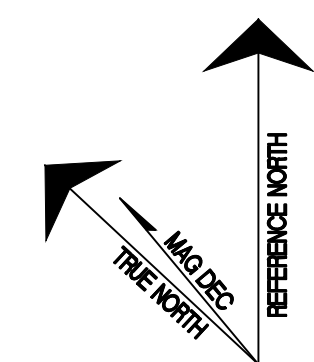
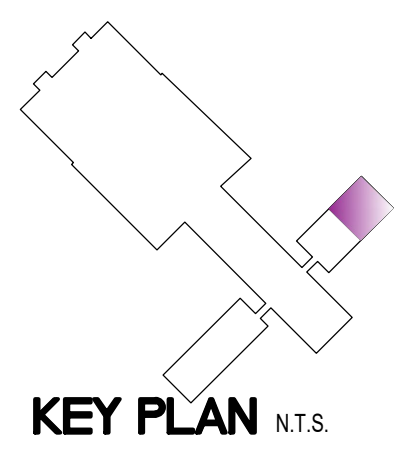
**SHEET TITLE**  
 NORTH ANNEX  
 MECHANICAL  
 PLAN

**Date:**  
 May 21, 2018

SEQ.	SHEET	OF
21	M-02	25



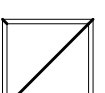
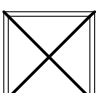



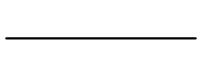
1  
 M-02  
**PARTIAL RENOVATION NORTH ANNEX MECHANICAL PLAN - NORTH**  
 1/8" = 1'-0"

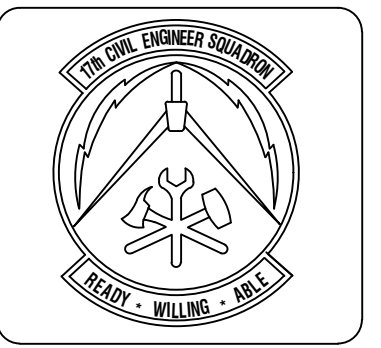


**MECHANICAL PLAN NOTES**

- ① DEMO EXISTING FAN COIL UNITS, SUPPLY/RETURN DIFFUSERS, AND ALL ASSOCIATED HVAC IN ALL ROOMS WHERE NEW FAN COIL UNITS ARE TO BE INSTALLED.
- ② PROVIDE NEW RETURN REGISTER IN NEW 2'X2' CEILING GRID CONNECTING TO NEW FAN COIL UNITS.
- ③ PROVIDE NEW RECTANGULAR DIFFUSER IN NEW 2'X2' CEILING GRID CONNECTING TO NEW FAN COIL UNITS. SUPPLY DIFFUSER SHALL BE TITUS OMNI OR EQUIVALENT. SUPPLY DIFFUSER NECK SIZE SHALL BE SIZED TO FIT ADJACENT ROUND DUCT IN EACH ROOM.
- ④ PROVIDE NEW FAN COIL UNITS, DUCTS, CONTROLS, AND SENSORS IN ROOMS LISTED. FAN COIL UNITS SHALL BE A COMPLETE PACKAGE LOCATED IN ROOM PLENUM THAT WILL TIE IN WITH BALL VALVES TO THE EXISTING CHILLED WATER SYSTEM AND INTEGRATED INTO BUILDING'S HVAC CONTROLS. FAN COIL UNIT SIZING INFORMATION PROVIDED ON SHEET M-04.
- ⑤ PROVIDE NEW TEMPERATURE SENSOR. CONNECT WITH NEW FAN COIL UNIT.
- ⑥ PROVIDE NEW INTERNATIONAL ENVIRONMENTAL CORPORATION HPY14 FAN COIL UNIT OR EQUIVALENT.
- ⑦ PROVIDE NEW INTERNATIONAL ENVIRONMENTAL CORPORATION HPY18 FAN COIL UNIT OR EQUIVALENT.
- ⑧ DEMO EXISTING CHILLED WATER PUMP. PROVIDE NEW GRUNDFOS PACO 5015-9/0 KP OR EQUIVALENT CHILLED WATER PUMP, TO BE DESIGNATED CWP-1. ATTACH TO EXISTING CHILLED WATER DISTRIBUTION SYSTEM. EQUIP CHILLED WATER PUMP WITH VARIABLE FREQUENCY DRIVE, MANUFACTURER TECO OR EQUIVALENT TO BE CONTROLLED BY CHILLED WATER SYSTEM. CHILLED WATER PUMP DETAIL INFORMATION PROVIDED ON SHEET M-04.

**MECHANICAL LEGEND**

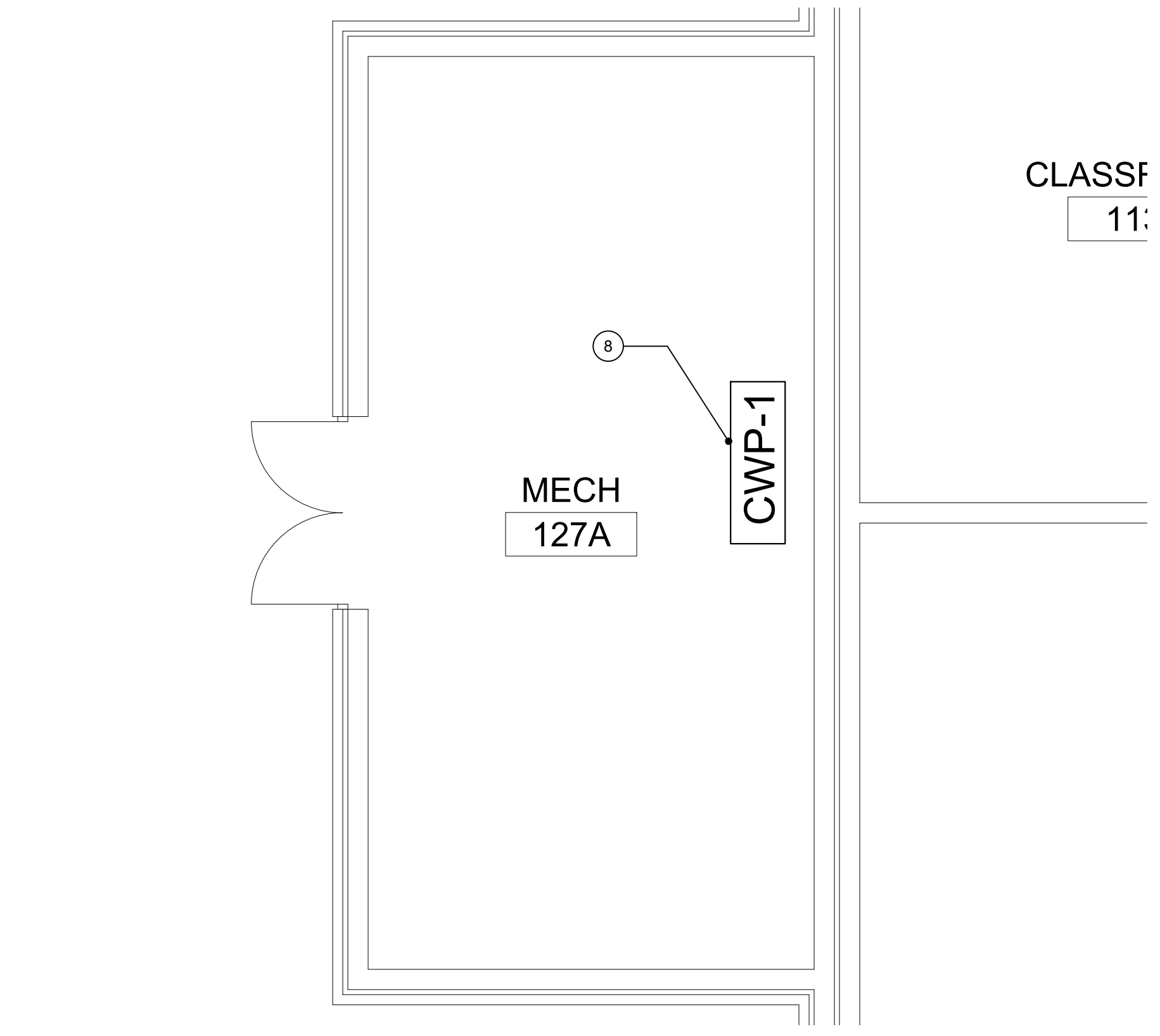
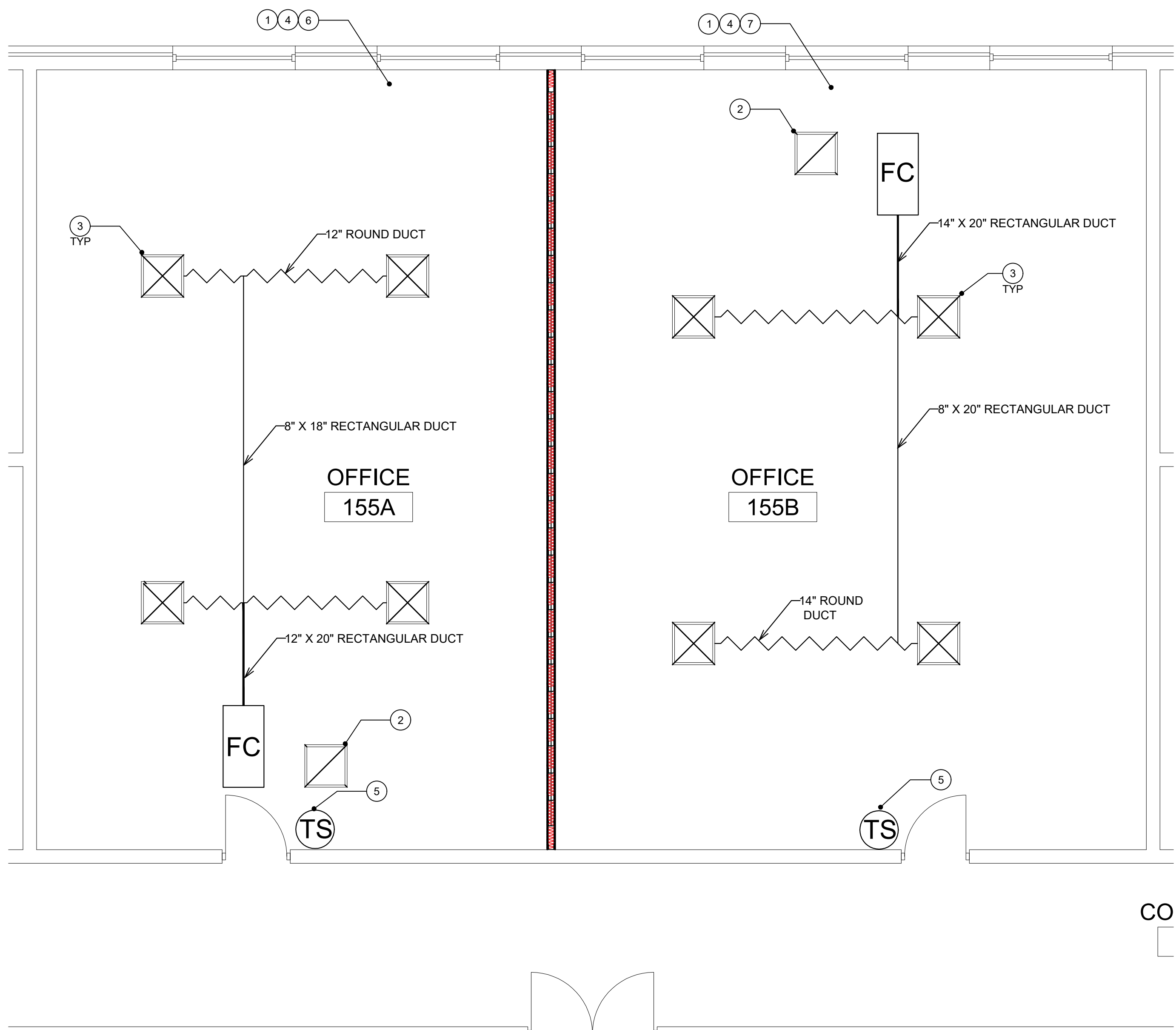
-  Return Relief or Exhaust Register/Duckwork
-  Rectangular Diffuser or Supply Duckwork
-  TEMPERATURE SENSOR
-  Fan Coil Unit
-  Round Duct
-  Rectangular Duct



**ASBESTOS CONTAMINATION MATERIAL IDENTIFICATION AND RECORDATION**  
 This facility does not contain A/CALIP materials. This facility contains A/CALIP materials that will be removed from this project. This facility contains A/CALIP materials that will be removed from this project. This facility contains A/CALIP materials that will be removed from this project.

Symbol	Description	Date	Appr

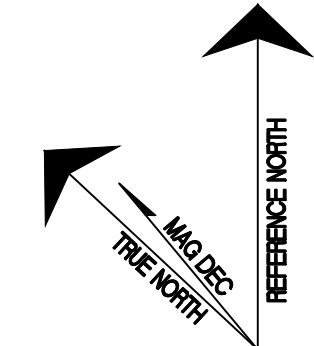
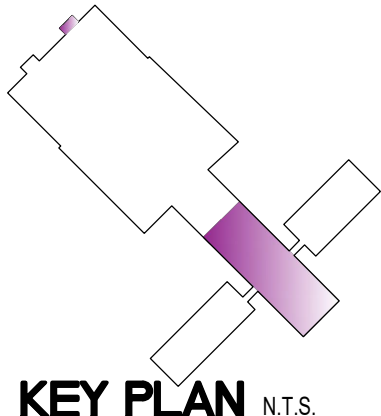
Designed By: HUS	Date: March 30, 2018
Drawn By: HUS	Contract No.:
Reviewed By:	Filename: March 30, 2018
Submitted By:	Plot Scale: AS SHOWN



CLASSIFIED  
11:

2  
M-03 PARTIAL RENOVATION WEST WING MECHANICAL PLAN - NORTH 1/4" = 1'-0"

1  
M-03 PARTIAL RENOVATION MAIN BUILDING MECHANICAL PLAN - EAST 1/4" = 1'-0"



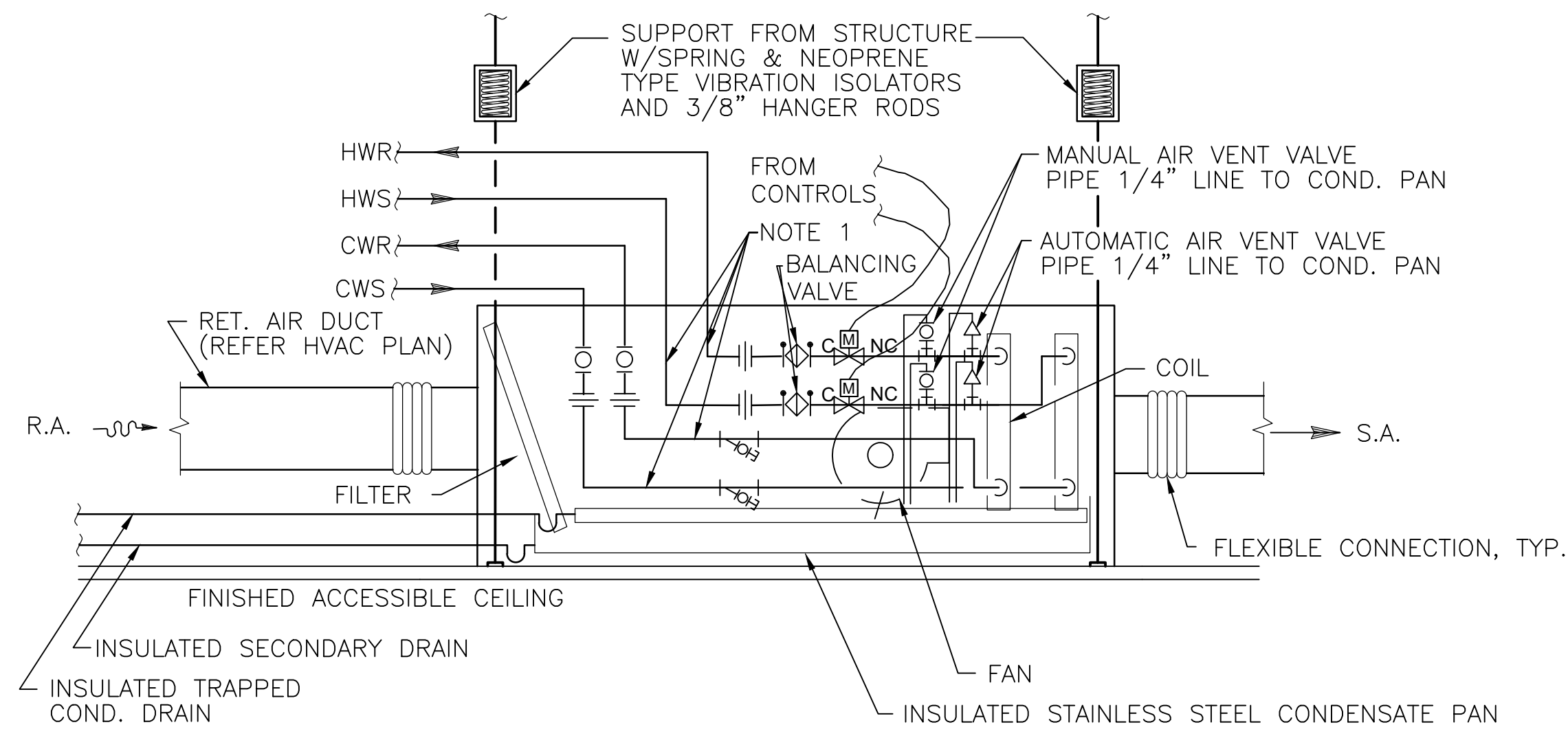
**PROJECT TITLE**  
 REPAIR - RENOVATE Building 3453  
 17th TRAINING WING  
 GOODFELLOW AIR FORCE BASE, TEXAS

**Project Number:**  
 GAFB Project #: 1060124

**SHEET TITLE**  
 MAIN BUILDING  
 PARTIAL WEST / WEST  
 WING PARTIAL NORTH  
 MECHANICAL PLAN

**Date:**  
 May 21, 2018

SEQ.	SHEET	OF
22	M-03	25



**FAN COIL INSTALLATION DETAIL**

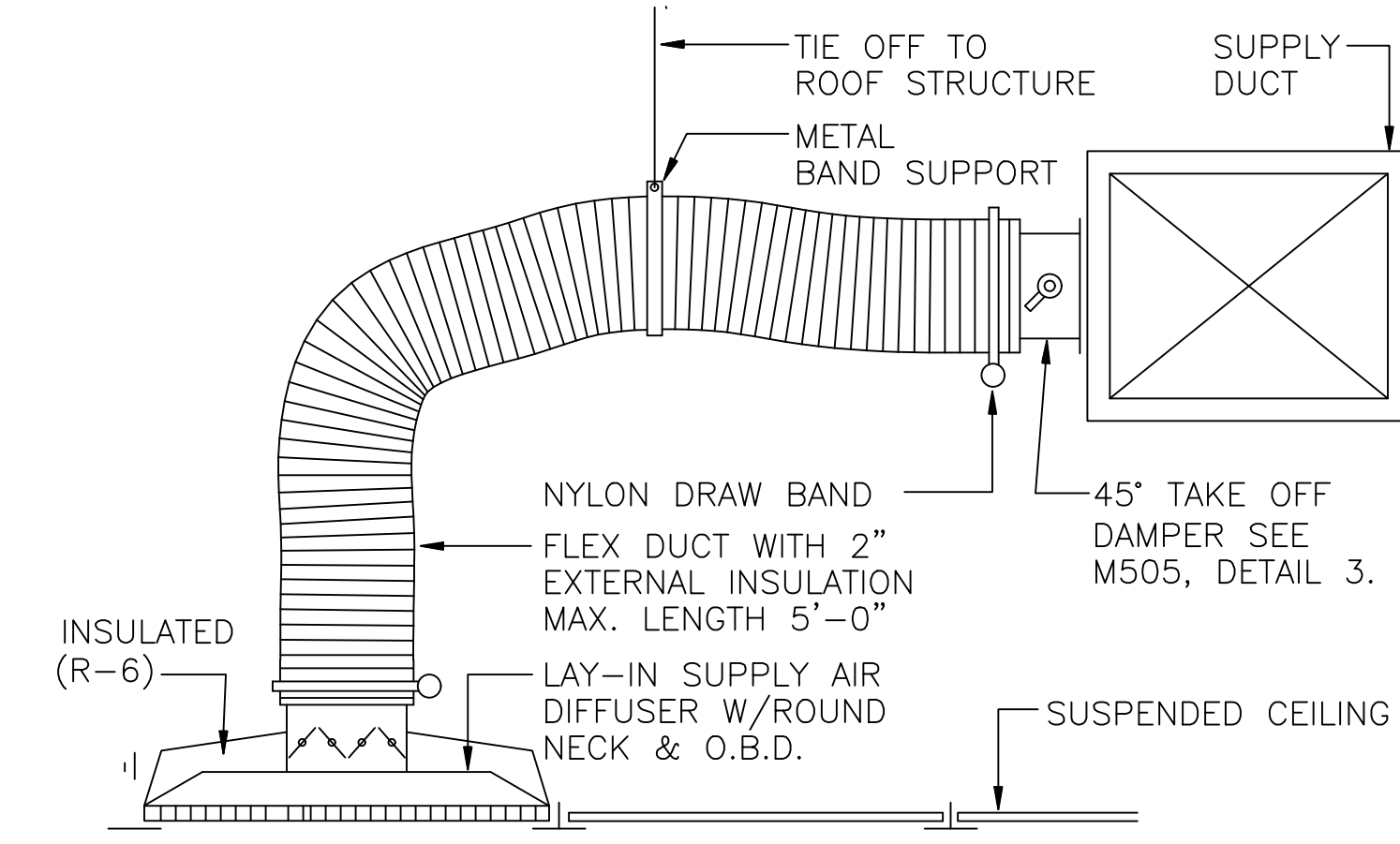
1  
M-04

N.T.S.

Room	Estimated Cooling Capacity (Btu/hr.)	Estimated Air Flowrate (CFM)	Make and Model (Or Equivalent)
155A	42,000	1,660	International Environmental Corporation HPY14
155B	48,000	1,897	International Environmental Corporation HPY18
198	24,000	949	International Environmental Corporation HPY10
200	30,000	1,186	International Environmental Corporation HPY12
211A	24,000	949	International Environmental Corporation HPY14
211B	12,000	474	International Environmental Corporation HPY10
220	48,000	1,897	International Environmental Corporation HPY18
221	48,000	1,897	International Environmental Corporation HPY18
223	42,000	1,660	International Environmental Corporation HPY14
224A	24,000	949	International Environmental Corporation HPY10
224B	24,000	949	International Environmental Corporation HPY10
225	60,000	2,372	International Environmental Corporation HBD30
227	30,000	1,186	International Environmental Corporation HPY12
228	24,000	949	International Environmental Corporation HPY10
229	48,000	1,897	International Environmental Corporation HPY14
237	30,000	1,186	International Environmental Corporation HPY12

**ROOM COOLING CAPACITY CALCULATIONS**

3  
M-04



**GRID CEILING SUPPLY AIR INSTALLATION DETAIL**

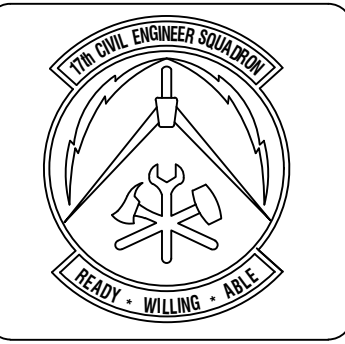
2  
M-04

N.T.S.

Chilled Water Pump Designation	Chilled Water Flowrate (GPM)	Hydraulic Head (ft. w.g.)	Suction Line Diameter	Discharge Line Diameter	Orientation	Make and Model or Equivalent	Variable Frequency Drive Make (Or Equivalent)
CWP-1	600	150	6"	6"	Horizontal	Grundfos Paco 5015-9/0 KP	TECO

**CHILLED WATER PUMP DETAILS**

4  
M-04



**ASBESTOS CONTAINING MATERIAL (ACM) AND LEAD BASED PAINT (LBP) STATEMENT**

Drawn for the project and shall be in accordance with the following:

This facility does not contain ACM or LBP materials.

This facility contains ACM or LBP materials but will not be disturbed by the work of this project.

This facility contains ACM or LBP materials but will be removed by the work of this project.

This facility contains ACM or LBP materials but will be removed prior to the contract.

Symbol	Description	Date	APR

Designed By: HJS	Date: March 30, 2018
Drawn By: HJS	Contract No.:
Reviewed By:	File name: March 30, 2018
Submitted By:	Plot Scale: AS SHOWN

**PROJECT TITLE**

REPAIR - RENOVATE Building 3453  
17th TRAINING WING  
GOODFELLOW AIR FORCE BASE, TEXAS

**Project Number**

GAFB Project #: 1060124

**SHEET TITLE**

MECHANICAL  
DETAILS

**Date:**  
May 21, 2018

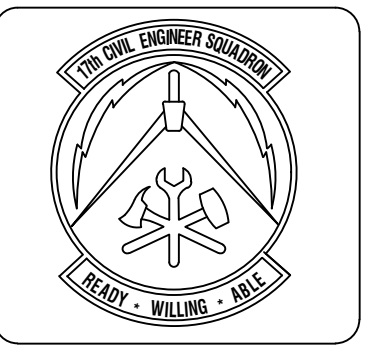
SEQ.	SHEET	OF
23	M-04	25

# PLUMBING PLAN NOTES

- ① PROVIDE A ROUND HAND WASHING BASIN/SINK, (54" RD BRADLEY STAINLESS STEEL CLASSIC WASH FOUNTAIN WF2708 O.E.) CONNECT TO EXISTING H/C/WATER SUPPLY IN CEILING AND EXISTING DRAIN IN THE FLOOR.
- ② CAP EXISTING PLUMBING WATER LINES IN ROOM TO CEILING.
- ③ CAP EXISTING PLUMBING SEWER LINES IN ROOM TO WALL.
- ④ CAP DRYING LINT VENT IN ROOM TO WALL.
- ⑤ CAP FLOOR DRAIN IN ROOM TO FLOOR.
- ⑥ CAP AIR COMPRESSOR IN ROOM TO CEILING
- ⑦ REMOVE EXISTING SINK AND CABINET LOCATED IN THE NORTHEAST CORNER OF ROOM 211, REMOVE EXISTING ATTACHED UTILITIES AND CAP AT THE WALL.
- ⑧ REMOVE LAB TABLE AND ATTACHED UTILITIES. UTILITY STUB-UPS TO BE CAPPED AT WALLS, CEILING OR FLOOR PER CODE.
- ⑨ REMOVE LAB VENT HOOD IN ROOM AND CAP AT CEILING.

## PLUMBING LEGEND

FD FLOOR DRAIN



**ASBESTOS CONTAINING MATERIAL (ACM) AND LEAD-BASED PAINT IDENTIFICATION**  
 This facility does not contain ACM or lead-based paint. For the representative ACMP and lead-based paint identification, see the separate ACMP and lead-based paint identification sheets.  
 This facility does not contain ACMP or lead-based paint. For the representative ACMP and lead-based paint identification, see the separate ACMP and lead-based paint identification sheets.  
 This facility does not contain ACMP or lead-based paint. For the representative ACMP and lead-based paint identification, see the separate ACMP and lead-based paint identification sheets.  
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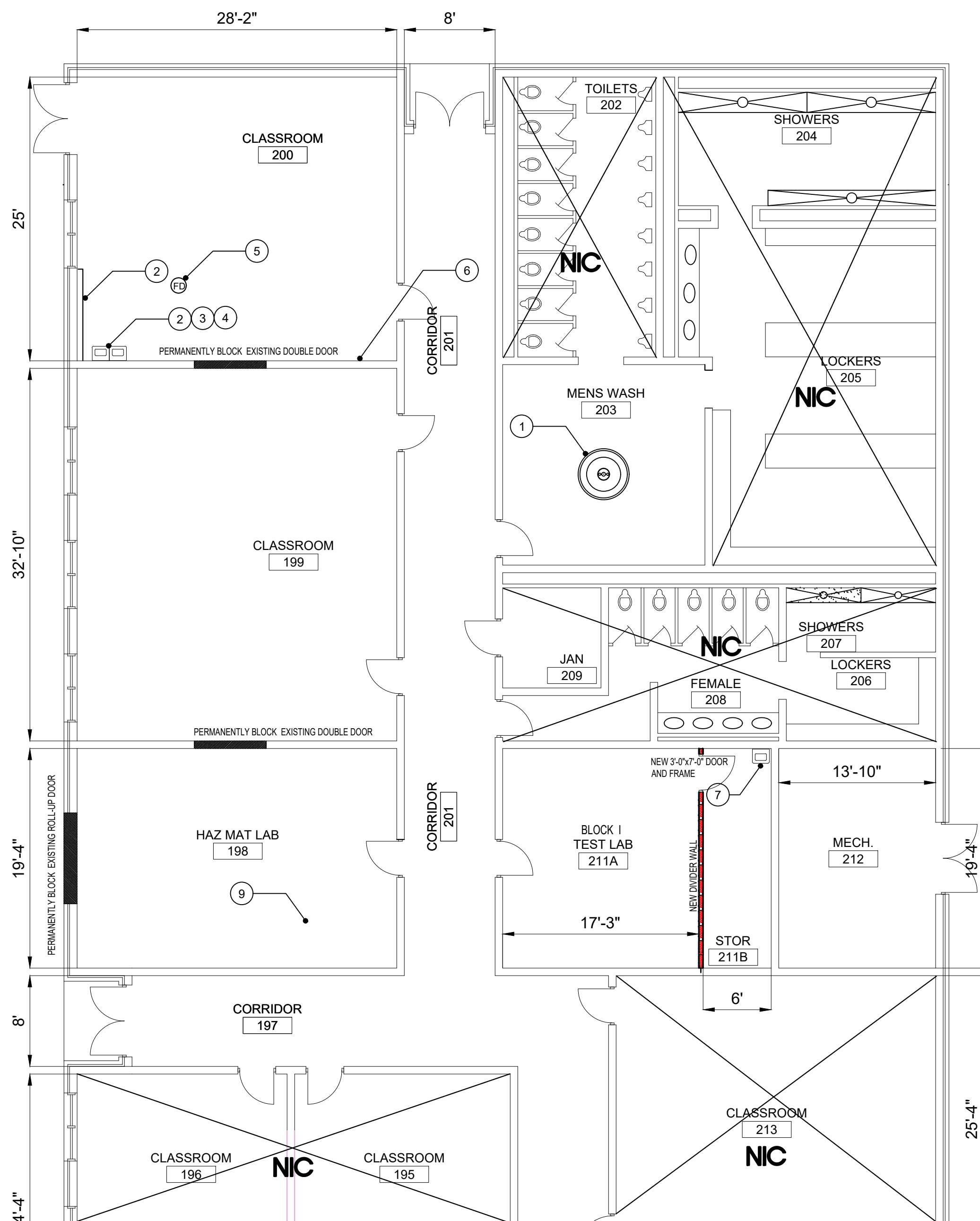
Symbol	Description	Date	Appr

Designed By	Date	Contract No.
HJS	March 30, 2018	
Drawn By		
HJS		
Reviewed By		
Submitted By		

**PROJECT TITLE**  
 REPAIR - RENOVATE Building 3453  
 17th TRAINING WING  
 GOODFELLOW AIR FORCE BASE, TEXAS

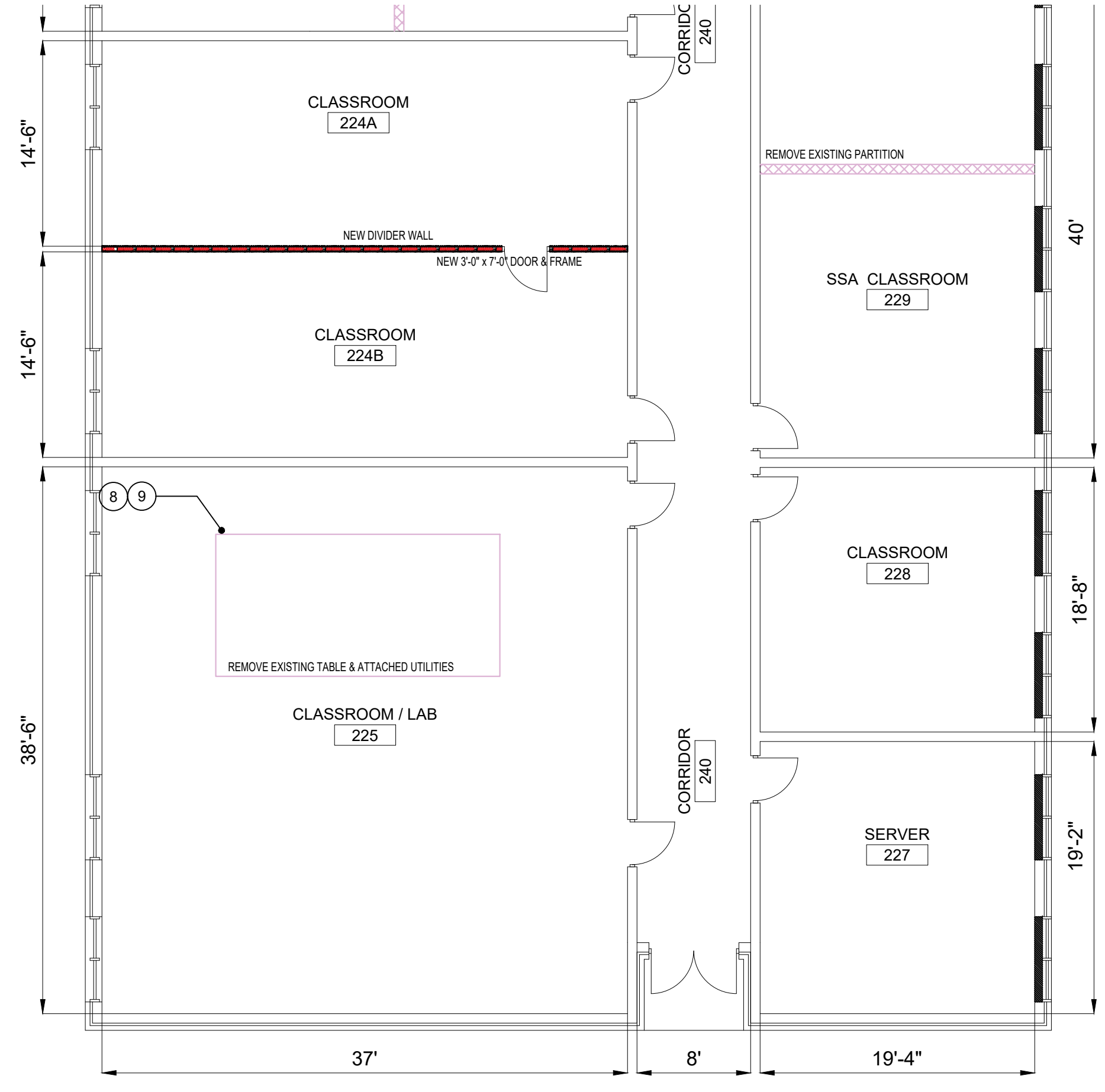
**Project Number:**  
 GAFB Project #: 1060124  
**SHEET TITLE**  
 NORTH/SOUTH ANNEX  
 PLUMBING PLANS  
**Date:**  
 May 21, 2018

SEQ.	SHEET	OF
24	P-01	25



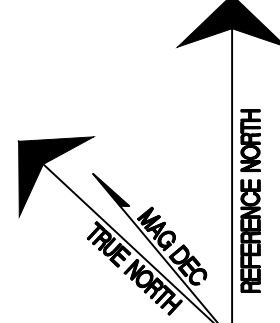
KEY PLAN N.T.S.

1 PARTIAL RENOVATION NORTH ANNEX PLUMBING PLAN - NORTH  
 P-01 1/8" = 1'-0"



KEY PLAN N.T.S.

2 PARTIAL RENOVATION SOUTH ANNEX PLUMBING PLAN - SOUTH  
 P-01 1/8" = 1'-0"



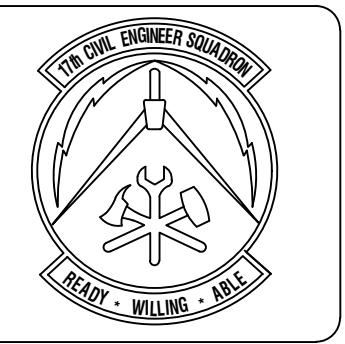


# FIRE SUPPRESSION NOTES

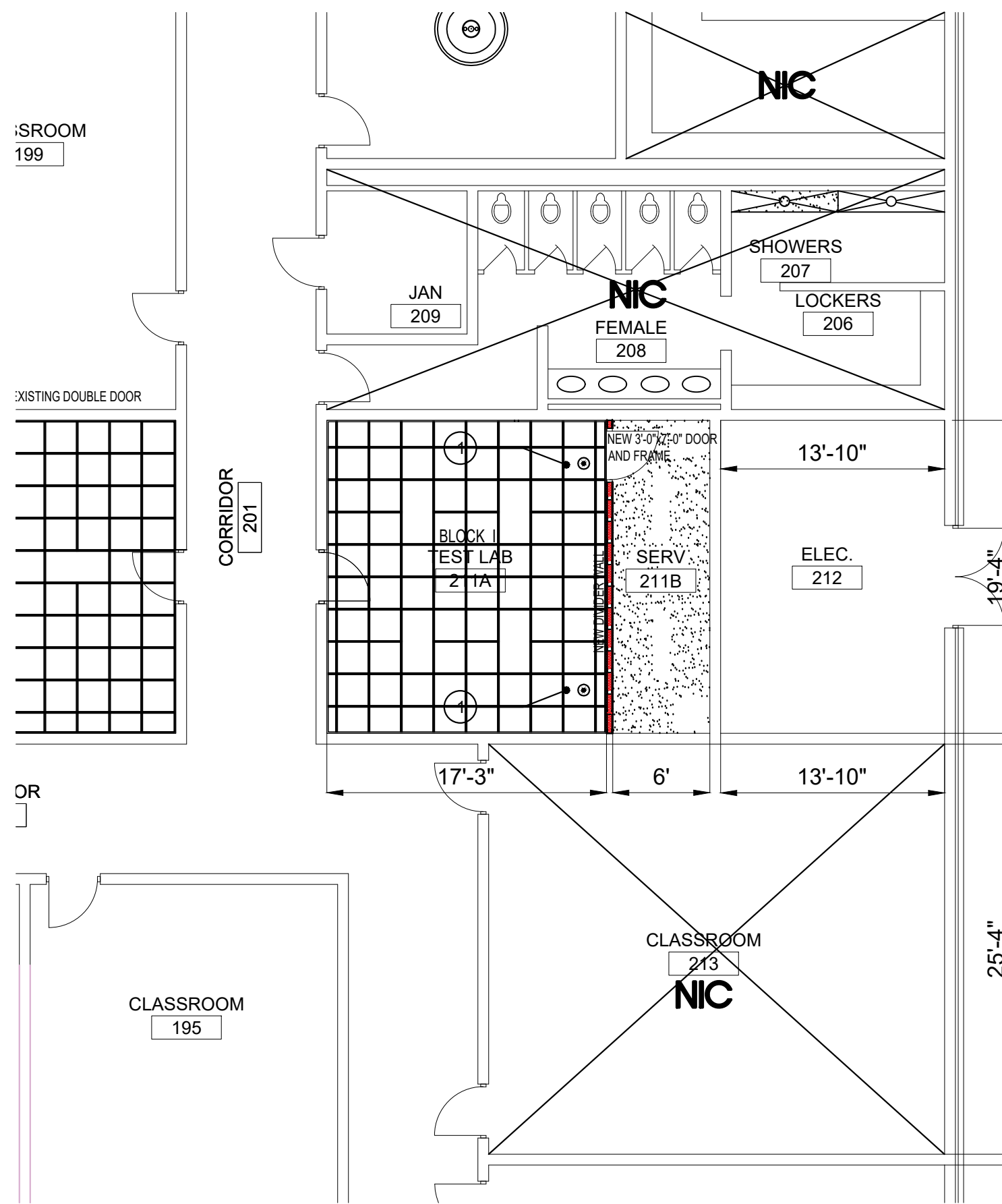
- ① CONTRACTOR SHALL RELOCATE EXISTING FIRE SPRINKLER HEADS AND/OR PROVIDE ADDITIONAL FIRE SPRINKLER HEADS AS REQUIRED PER CODE TO MEET COVERAGE.
- ② PROVIDE NEW FIRE STROBE HORN SYSTEMS.

# FIRE SUPPRESSION LEGEND

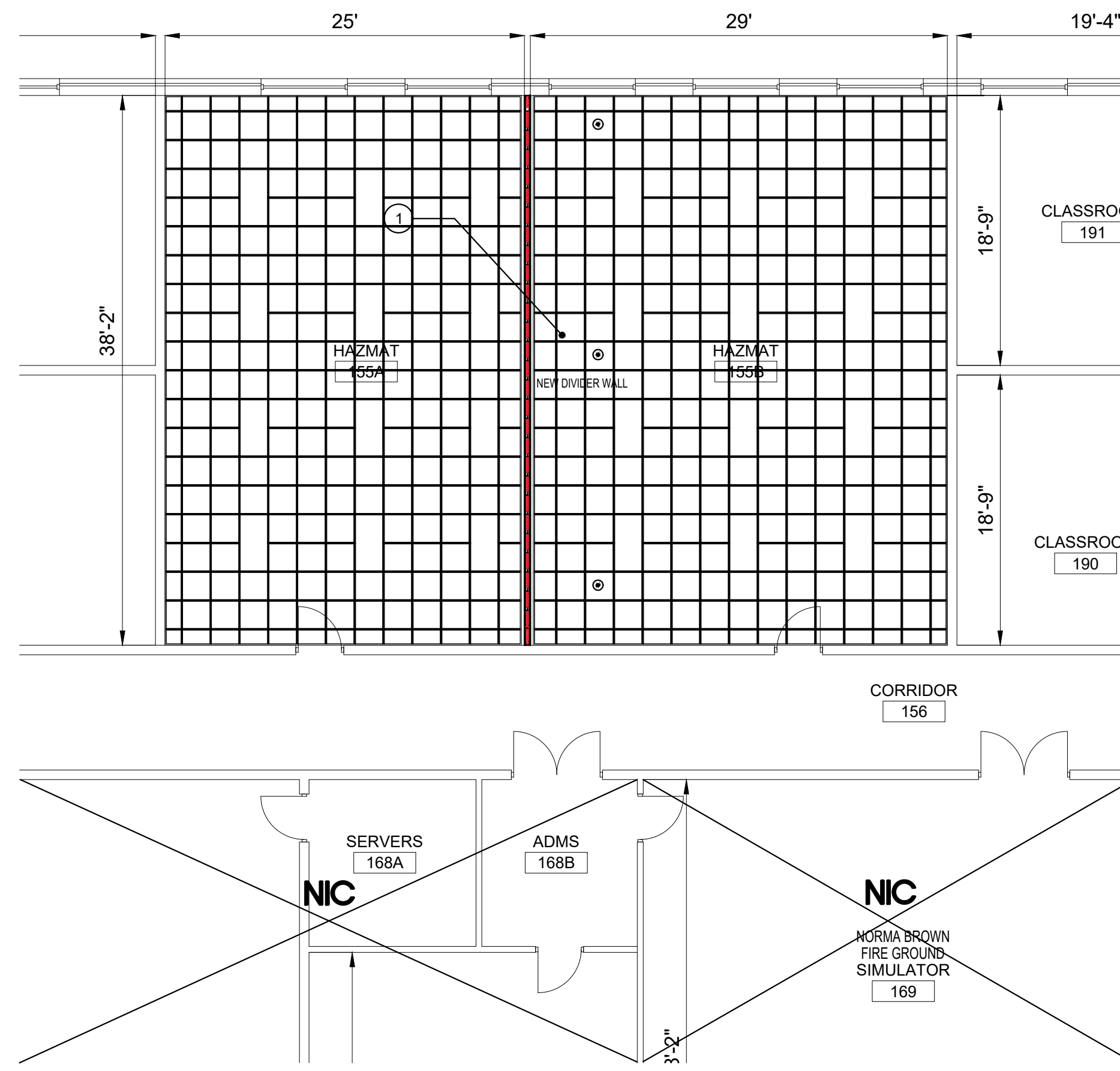
- ⊙ FIRE SPRINKLER HEADS
- ⊙ SH FIRE STROBE HORN SYSTEM



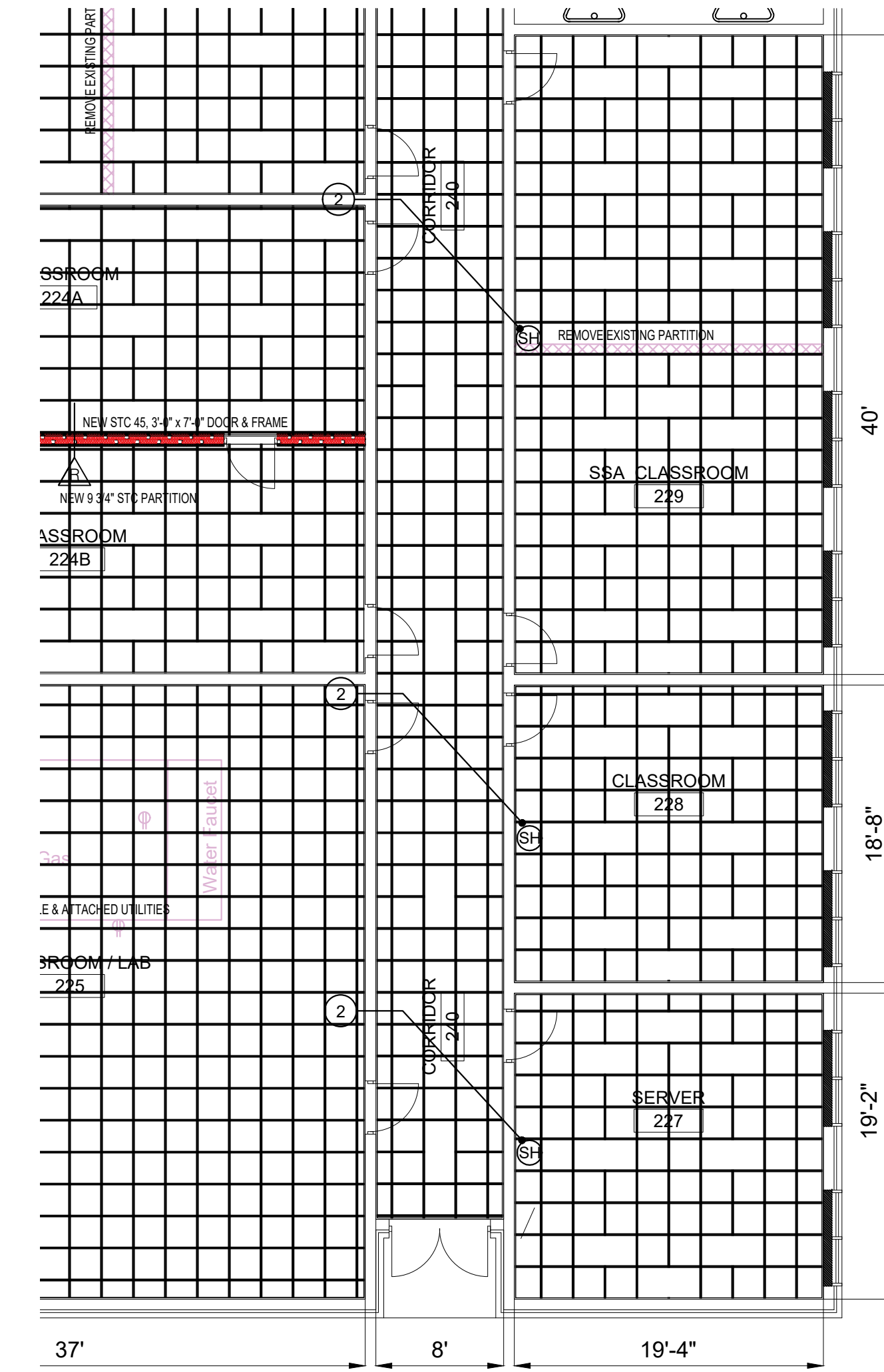
**ASBESTOS CONTAINING MATERIAL (ACM) AND LEAD BASED PAINT (LBP) STATEMENT**  
 This facility contains ACM and LBP materials. The facility owner has been notified of the presence of these materials and has provided the appropriate documentation. The contractor shall follow all applicable regulations and procedures for the safe removal of these materials. This facility contains ACM and LBP materials that will be removed by an ACM and LBP contractor. This facility contains ACM and LBP materials that will be removed by an ACM and LBP contractor. This facility contains ACM and LBP materials that will be removed by an ACM and LBP contractor.



1 NORTH ANNEX FIRE SUPPRESSION PLAN  
 FS-01 1/8" = 1'-0"



2 MAIN BUILDING FIRE SUPPRESSION PLAN  
 FS-01 1/8" = 1'-0"



3 SOUTH ANNEX FIRE SUPPRESSION PLAN  
 FS-01 1/8" = 1'-0"

Symbol	Description	Date	Appr

Designed By: HJS	Date: March 30, 2018
Drawn By: HJS	Contract No.:
Reviewed By:	File Name:
Submitted By:	Plot Date: March 30, 2018
	Plot Scale: AS SHOWN

**PROJECT TITLE**  
 REPAIR - RENOVATE Building 3453  
 17th TRAINING WING  
 GOODFELLOW AIR FORCE BASE, TEXAS

**Project Number:**  
 GAFB Project #: 1060124

**SHEET TITLE**  
 FIRE SUPPRESSION PLAN

**Date:**  
 May 21, 2018

SEQ.	SHEET	OF
25	FS-01	25

