COMMERCIAL

2023 PPRBC
2021 IECC

CRC REVIEWED
shelley
08/01/2024 10:53:57 AM

Address: 27 E VERMIJO AVE COLORADO SPRINGS

Parcel: 6418311027

Plan Track #: 192290 **Received: 23-Jul-2024 (BRIANNAM)**

Description:

COMMERCIAL INTERIOR REMODEL

Contractor:

Code 2021 IEBC (Level 2 Alteration)

Occupancy Class B

Type of Construction I-B

Floor or # of stories BSMT & 4TH

Occupancy Load 68 (SCOPE)

Fire Sprinkled for:
( ) Area ( ) Height ( ) Bsmt
( ) Occ/Use ( ) Other (X) N/A

Mixed Use: ( ) Acc. ( ) Separate ( ) N/Separate
(X) N/A ( ) Combined

Fire Wall ( ) Yes (X) No Largest Area _____

Horizontal Assembly: (X) Structure ( ) Drop Clg ( ) N/A
Alt. Fire Hazm/HP

Fire:

_____ _____

Required PPRBD Departments (6)

Enumeration

N/A
07/24/2024 4:38:55 PM
Pikes Peak REGIONAL Building Department
amy
ENUMERATION

Floodplain

(N/A) RBD GIS

Construction

Released for Permit
08/30/2024 8:02:51 AM
Pikes Peak REGIONAL Building Department
bphillips
CONSTRUCTION

Electrical

Released for Permit
09/10/2024 2:16:58 PM
Pikes Peak REGIONAL Building Department
danielg
ELECTRICAL

Mechanical

Released for Permit
08/05/2024 7:43:41 AM
Pikes Peak REGIONAL Building Department
tcrippen
MECHANICAL

Plumbing

N/A
08/02/2024 11:12:22 AM
Pikes Peak REGIONAL Building Department
shanen
PLUMBING

Release of this plan does not preclude compliance with all applicable codes, ordinances and other pertinent regulations. This plan set must be present on the job site for every inspection.

Required Outside Departments (5)

CO Springs DRE

APPROVED

08/02/2024 1:13:35 PM

Matthew.Ambuul

City Development Review

CO Springs Fire

APPROVED

08/13/2024 11:52:27 AM

Phil.Valdez

Colorado Springs Fire Department

FCS-C-CN-24-01050

CO Springs Hazmat

N/A

08/13/2024 11:49:51 AM

Phil.Valdez

Colorado Springs Hazmat

CSU Water

N/A

08/01/2024 1:40:22 PM

mgackle

Water

CSU Waste Water

N/A

08/01/2024 1:40:31 PM

mgackle

Wastewater

Pikes Peak REGIONAL Building Department

CODE STUDY FORM

SECTION 1.0

This form is intended to be completed using a PDF reader and must be stamped by the design professional of record. This form must be included as an attachment, or as part of the second page of the plans for all commercial projects. All information must be provided.

Address: 27 E. Vermijo Avenue City: Colorado Springs Zip: 80903

Tax Schedule Number:(1) 6418311027

Legal Description:(1)

LOT 1 EL PASO COUNTY PARKING STRUCTURE, EX THAT PT CONV TO COUNTY FACILITIES BY REC #207102198

ZONING DISTRICT: (1) CITY OF COLORADO SPRINGS

FIRE JURISDICTION: (1) COLORADO SPRINGS **IF OTHER, SPECIFY**

(1) *This information may be found HERE*

SCOPE OF PROJECT:

PHASED PROJECTS:

☐ Foundation Only ☐ Superstructure ☐ Core/Shell ☐ Finish

REGULAR PROJECTS:

☒ Interior Remodel ☐ Interior Finish ☐ Addition ☐ Complete Building

☐ Change of Occupancy ☐ Other

DESCRIPTION OF WORK:

THIS PROJECT IS A RECONFIGURATION OF EXISTING OFFICES TO REMODEL THE FOURTH FLOOR EMERGENCY SERVICES DISPATCH AREA AND EXISTING BASEMENT OFFICES TO A NEW TRAINING AREA.

Released for Permit
08/30/2024 8:04:04 AM
Pikes Peak REGIONAL Building Department
bphillips
CONSTRUCTION

PRINCIPAL USE OF BUILDING: B, Office

TYPE OF CONSTRUCTION: *(International Building Code)*

☐ I-A	☐ II-A	☐ III-A	☐ IV-A	☐ IV-C	☐ V-A
☒ I-B	☐ II-B	☐ III-B	☐ IV-B	☐ IV-HT	☐ V-B

COMPLETION OF THIS FORM DOES NOT TAKE THE PLACE OF REQUIRED CODE DATA ON THE PLAN SET

SECTION 2.0

BUILDING HEIGHTS AND AREAS*:

Total Building Area:	64,726	Ft^2	Existing Building Area:	64,726	Ft^2
First Floor:	12,960	Ft^2	New Building Area:		Ft^2
Second Floor:	12,960	Ft^2	Total Height:		Ft
Third Floor:	12,960	Ft^2	Number of Stories:	4	
Fourth Floor:	12,960	Ft^2	Basement Area:	12,886	Ft^2
Fifth Floor:		Ft^2	Number of Mezzanines:		
Sixth Floor:		Ft^2	Mezzanine Area:		Ft^2
Seventh Floor:		Ft^2	Unlimited Area:	CHOOSE UNLIMITED AREA PROVISION	

TOTAL AREA FOR SCOPE OF WORK: 3,976 **Ft^2**

**Provide per floor details, height increase (IBC 504), and area increase (IBC 506) calculations on plans if applicable. If additional stories are required, provide an additional sheet.*

OCCUPANCIES: *Specify all occupancies that apply and indicate the square footage of each*

B	3,976	Ft^2	CHOOSE OCCUPANCY		Ft^2
CHOOSE OCCUPANCY		Ft^2	CHOOSE OCCUPANCY		Ft^2
CHOOSE OCCUPANCY		Ft^2	CHOOSE OCCUPANCY		Ft^2

SPECIAL USE AND OCCUPANCIES ☐ ***YES*** ☒ ***NO***

CHOOSE SPECIAL USE AND OCCUPANCIES

List all, if more than one applies:

SEPARATION OF OCCUPANCIES:

☐ Nonseparated Occupancies ☐ Separated Occupancies ☒ No Mixed Occupancies

If Nonseparated Occupancies, specify worst case occupancy: CHOOSE WORST CASE OCCUPANCY

INCIDENTAL USE AREAS: *Maximum allowed is 10%*

CHOOSE INCIDENTAL USE PROVISION	Separation:	CHOOSE INCIDENTAL USE SEPAR
CHOOSE INCIDENTAL USE PROVISION	Separation:	CHOOSE INCIDENTAL USE SEPAR
CHOOSE INCIDENTAL USE PROVISION	Separation:	CHOOSE INCIDENTAL USE SEPAR

ACCESSORY OCCUPANCY AREAS: *Maximum allowed is 10%*

CHOOSE ACCESSORY OCCUPANCY	Accessory Area:		Ft^2
CHOOSE ACCESSORY OCCUPANCY	Accessory Area:		Ft^2
CHOOSE ACCESSORY OCCUPANCY	Accessory Area:		Ft^2

SECTION 3.0

FIRE SPRINKLER SYSTEM: [X] Non-Sprinklered [ ] Sprinklered CHOOSE SPRINKLER REASON

CLASSIFICATION OF FIRE SPRINKLER SYSTEM: CHOOSE CLASSIFICATION OF SYSTEM

FIRE ALARM SYSTEM: [X] Not Required [ ] Required CHOOSE ALARM SYSTEM TYPE

MEANS OF EGRESS: *For scope of work*

Exits Required:	2	Exits Provided:	3
Occupant Load:	68	Number of Interior Exit Stairways:	2
Actual Max. Travel Distance:	160-9" Ft	Interior Exit Stairway Rating:	2 Hrs
Actual Common Path of Travel:	73'-2" Ft	Number of Fire Walls:	-
Corridor Rating:	1 Hrs.	Fire Wall Rating:	- Hrs

SHAFTS: *If this building contains rated shafts, specify required shaft support*

Shaft Construction Rating: Hrs Supporting Construction Rating: Hrs

RATED HORIZONTAL ASSEMBLIES: *Location, if applicable* [ ] Structure [ ] Dropped Ceiling

BUILDING RISK CATEGORY: [ ] I [ ] II [ ] III [X] IV

Colorado Licensed Design

As the design professional of record, I certify this information is correct to the best of my knowledge. I further acknowledge my stamp pertains to Sections 1.0, 2.0, and 3.0 only.

Sharon Allen - Sharon L. Allen

Signature

8/29/2024

Date

COLORADO LICENSED
Sharon L. Allen
305897
ARCHITECT

Professional Stamp

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08/30/2024 8:03:58 AM
Pikes Peak REGIONAL Building Department
bphillips
CONSTRUCTION

SECTION 4.0

	Yes	No
Does the scope of work involve a change of occupancy classification? If yes, what was the most recent existing use? _____ Proposed use? _____		X
Will marijuana be cultivated, processed or dispensed at this location? If yes, mark all activities that will apply: ☐ Dispensary ☐ Cultivation ☐ Processing ☐ Extraction For more information visit: https://coloradosprings.gov/fire-department/page/medical-marijuana-extraction-operations		X
If applicable, is the **approved** Development Plan included with this submittal?		X
Does this project disturb 1 or more acres, or have construction activities that are a part of a larger common plan of development or sale? If yes, a City of Colorado Springs, Stormwater Enterprise Division, Grading and Erosion Control Permit and plan is required: https://coloradosprings.gov/stormwater-enterprise/page/grading-and-erosion-control-permit?mlid=6156		X
Does this project include an elevator, escalator, platform lift, chair lift, dumbwaiter, or other method of conveyance?		X
Is this permit for the purposes of finishing an existing core and shell permit (first time finish of the space)?		X
Is this a food establishment (equipment locations must be shown on plans)?		X
Does the scope of work include a swimming pool?		X
Does the scope of work have venting equipment (hoods, catalytic oxidizers, scrubbers)?		X
If applicable, are the approved civil construction drawings (including utility service plan) included in submittal?		X
Will there be any new utility meters or changes to existing meters? If yes, which are affected (check): ☐ **Gas** ☐ **Electric** ☐ **Water** Gas: Existing load _____ Proposed load _____ Electric: Existing load _____ Proposed load _____ Water: Existing load _____ Proposed load _____ Note: Commercial Water Meter Sizing Form required if any changes to water meter or significant fixture count changes are proposed		X
Will vehicle maintenance or vehicle storage (parking garage) activities occur? If yes, state square footage of area this will occur: _____		X
Will Electric Vehicle (EV) charging stations be installed? If yes, specify location and level (1, 2, or 3): _____		X
Is a sand/oil or grease interceptor proposed? If yes, state size: _____		X
Is an internal grease trap proposed? *If yes, contact CSU at FOG@csu.org to discuss a variance*		X
Is there a backflow prevention device indicated (hose bib locations must be shown on plan)?		X

SECTION 4.0 (CONT)

	Yes	No
Per IFC Chapter 50, does the scope of work include any hazardous materials? If the project is located within the City of Colorado Springs, attach a Hazardous Material Inventory Statement (HMIS) - available at https://coloradosprings.gov/hazmat?mlid=42381 **If the project is outside the City of Colorado Springs, contact the appropriate Fire Jurisdiction**		X
Per IFC Chapter 32, does the scope of work involve the stacking of commodities higher than 12' or high hazard commodities higher than 6' AFF? If the project is located within the City of Colorado Springs, attach a High Pile Storage Questionnaire form– available at https://coloradosprings.gov/fire-department/page/high-pile-combustible-storage-hpcs-permit **If the project is outside the City of Colorado Springs, contact the appropriate Fire Jurisdiction**		X
Per IFC 905, does the scope of work require fire protection standpipes? If yes, indicate reason and cite code reference:		X
Per IBC 904, does the scope of work or building require a fixed fire protection system?		X
Per IBC 909, does the scope of work include a smoke control system? If yes, indicate type (check): ☐ **Passive** ☐ **Active**		X
Does the scope of the work include a childcare facility?		X
Does the scope of the work include a Body Art (tattoo, piercing, etc.) facility?		X
Specify total earthmoving area of project in square feet:		
Will the disturbance be at least 1 acre, but less than 25 acres of land, and the disturbance period will be 6 months or less? If yes, submit a construction Activity Permit Application to EPC Public Health: https://www.elpasocountyhealth.org/licenses-permits-inspections-water-testing/construction-land-use/construction-activity-permit/		X
Will the disturbance be 25 or more acres of land, or the disturbance period will exceed 6 months? If yes, submit an Air Pollution Emission Notice to the Colorado Department of Public Health and Environment: https://www.colorado.gov/pacific/cdphe/air/apens-and-permits		X
Was a formal Pre-Submittal Consultation with Pikes Peak Regional Building Department performed for this project? With Whom:		X
Is this project designated as official RAPID RESPONSE? If Yes, attach the RAPID RESPONSE CERTIFICATE to the form prior to submittal		X

REQUIRED CONTACT INFORMATION:

Project Contact Name:	Sharon Allen, TDG Architecture, Inc.
Email address:	sharon@tdgarchitecture.com
Phone Number:	719-623-5641, ex. 2

EL PASO COUNTY OFFICE OF THE SHERIFF
BASEMENT AND FOURTH FLOOR REMODEL

27 East Vermijo Avenue
Colorado Springs, CO 80903

PROJECT TEAM

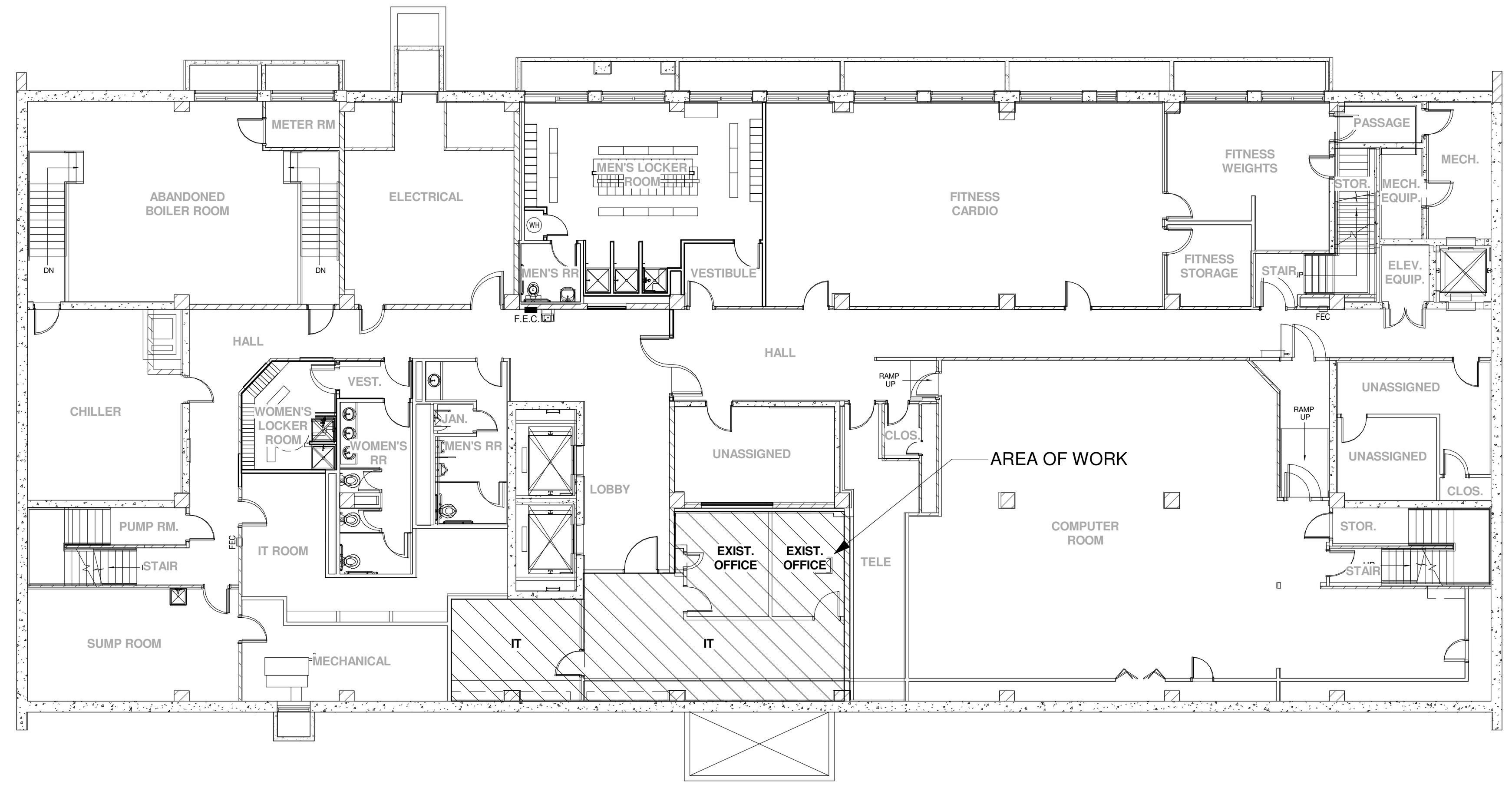
OWNER / LANDLORD:
EL PASO COUNTY
27 Vermijo Avenue
Colorado Springs, CO 80903
Phone: 719 520-6573
Jill Travis

ARCHITECT:
TDG ARCHITECTURE
201 E. Las Animas Street, Suite 113
Colorado Springs, CO 80903
Phone: 719-623-5641
Sharon Allen
Morgan McCurdy

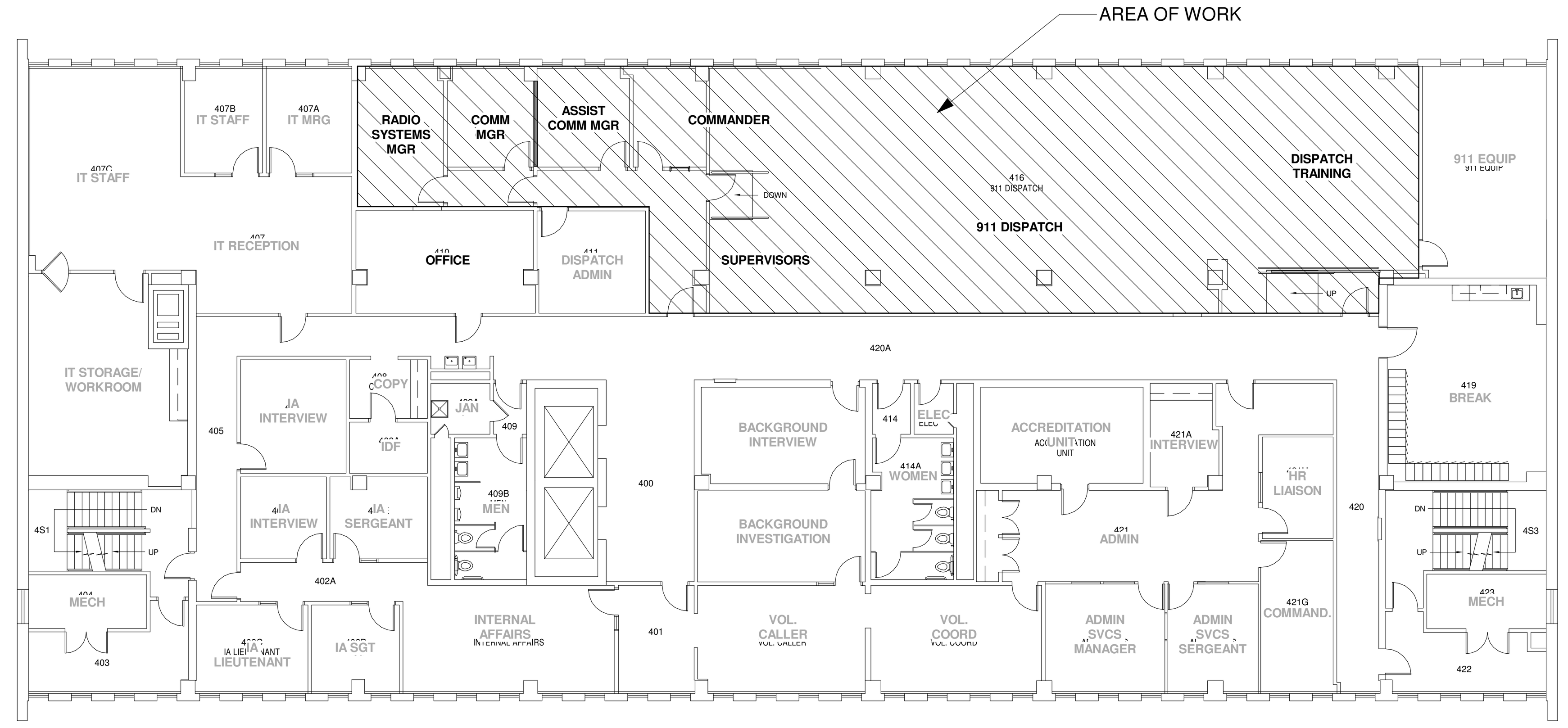
MECHANICAL/ELECTRICAL ENGINEER:
51 EC, Inc.
2960 N. Academy Blvd., Ste. 101
Colorado Springs, CO 80917
Phone: 719 521-8044
Aaron Springfield

GENERAL NOTES

1. CONTRACTOR, SUBCONTRACTORS AND SUPPLIERS SHALL REVIEW AND VERIFY ALL NOTES, DIMENSIONS AND INFORMATION ON THESE DRAWINGS PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES, OMISSIONS OR CHANGES TO THE ARCHITECT. IF ERRORS, OMISSIONS, OR QUESTIONS REGARDING THE DRAWINGS BECOME EVIDENT OR ARE SUSPECTED, THE ITEM SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING PRIOR TO PROCEEDING WITH WORK. FAILURE TO DO SO SHALL RELIEVE THE ARCHITECT OF ANY LIABILITIES FOR ERRORS OR OMISSIONS IN THE PLANS.
2. THE CONTRACTOR SHALL VERIFY SITE CONDITIONS AND DIMENSIONS PRIOR TO STARTING ANY WORK. ANY DISCREPANCIES FROM THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING PRIOR TO PROCEEDING WITH WORK.
3. ALL WORK IS TO BE PERFORMED IN A THOROUGH AND GOOD WORKMANSHIP-LIKE MANNER BY SKILLED WORKERS IN CONFORMANCE WITH THE BEST STANDARDS OR PRACTICES IN THE TRADE.
4. ALL WORK SHALL COMPLY WITH APPLICABLE LOCAL, COUNTY, STATE AND FEDERAL CODES, ORDINANCES, RULES AND REGULATIONS.
5. THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CLEAN, ORDERLY AND SAFE MANNER. DEBRIS SHALL BE PLACED IN TRASH RECEPTACLES OR BINS. FENCE OFF OPEN TRENCHES OR OTHER HAZARDS FROM TRESPASSERS. STORE VALUABLE MATERIALS, TOOLS, SUPPLIES OR APPLIANCES IN A LOCKED SPACE. CONFORM WITH BUILDING MANAGEMENT REGULATIONS FOR NOISE CONTROL, CLEAN-UP AND SITE CONDITIONS.
6. ALL FEDERAL AND STATE SAFETY AND OSHA REGULATIONS SHALL BE ENFORCED FOR ALL WORK, EQUIPMENT AND CONSTRUCTION METHODS.
7. IF ASBESTOS OR ASBESTOS-CONTAINING MATERIALS ARE ENCOUNTERED DURING DEMOLITION OR CONSTRUCTION, STOP WORK AND DO NOT DISTURB THOSE MATERIALS. NOTIFY OWNER AND ARCHITECT WHO WILL CONSULT WITH A LICENSED ASBESTOS ABATEMENT PROFESSIONAL TO PROPERLY REMOVE THE MATERIALS PRIOR TO PROCEEDING. LIMITED ASBESTOS TESTING PERFORMED BY OWNER.
8. PROVIDE TEMPORARY SHORING FOR THE EXISTING STRUCTURE DURING DEMOLITION UNTIL THE NEW SUPPORTING STRUCTURE IS IN PLACE.
9. LOCATE AND STAKE ALL EXISTING UNDERGROUND UTILITY LINES PRIOR TO EXCAVATION, TRENCHING OR DIGGING. REPLACE OR REPAIR ANY DAMAGE TO EXISTING LINES THAT MAY OCCUR.
10. FOR ADDITIONS AND REMODELS: HIDDEN CONDITIONS MAY EXIST AT THE TIME OF PREPARATION OF THE DRAWINGS. IF EXPOSURE OF THESE HIDDEN CONDITIONS RESULT IN CONFLICTS WITH THE DRAWINGS, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY IN WRITING PRIOR TO PROCEEDING WITH ANY WORK.
11. ALL DIMENSIONS ARE FROM FACE OF NEW FRAMING, FACE OF EXISTING MASONRY, OR FACE OF FINISH ON EXISTING WALLS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
12. ALL GLASS WITHIN 18" OF FLOOR AND WITHIN A 24" ARC OF DOOR JAMBS TO BE TEMPERED GLASS. ALL GLASS WITHIN DOORS ALSO SHALL BE TEMPERED.
13. ALL SMOKE DETECTORS SHALL BE PERMANENTLY WIRED AND INTERCONNECTED WITH BATTERY BACKUP.
14. ALL EXITS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE. MANUALLY OPERATED EDGE OR SURFACE-MOUNTED FLUSH BOLTS OR SURFACE BOLTS ARE PROHIBITED.
15. APPLICABLE CODES: ALL WORK & MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE GOVERNING CODES AND APPLICABLE STANDARDS.
16. NOTE TO THE GENERAL CONTRACTOR/BUILDER/TRADES: CONTRACTOR IS RESPONSIBLE FOR: DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES; FURNISHING ALL ITEMS REQUIRED FOR THE OTHER TRADES; FURNISHING ALL ITEMS REQUIRED FOR THE PROPER EXECUTION, COMPLETION AND SATISFACTORY PERFORMANCE OF ALL WORK NECESSARY, INDICATED, REASONABLY INFERRED OR REQUIRED BY ANY CODE WITH JURISDICTION TO COMPLETE THEIR SCOPE OF WORK FOR A COMPLETE & PROPER FINISHED JOB. IN CASE OF ANY QUESTIONS OR NEED FOR FURTHER CLARIFICATION OF INFORMATION AND/OR DETAILS, CONTRACTOR SHOULD CONTACT THE ARCHITECT PRIOR TO FURTHER CONSTRUCTION OR FABRICATION OF ITEMS IN QUESTION. CONTRACTOR SHALL TAKE DIRECTION FROM DESIGNATED OWNER'S REPRESENTATIVE.
17. MATERIAL SELECTION: MANUFACTURER, MAKE, MODEL NUMBER, COLOR, ETC., OF FINISH MATERIALS, APPLIANCES, ETC., SHALL BE SELECTED BY THE OWNER REPRESENTATIVE AND/OR ARCHITECT.
18. SUBSTITUTIONS: NO SUBSTITUTIONS SHALL BE MADE WITHOUT THE OWNER REP./ARCHITECT'S PRIOR WRITTEN APPROVAL.
19. GUARANTEE:THE ARCHITECT MAKES NO EXPRESSED OR IMPLIED GUARANTEE FOR PRODUCTS IDENTIFIED BY TRADE NAME OR MANUFACTURER.
20. JOB CLEAN UP: ALL TRADES SHALL KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE AND/OR RUBBISH CAUSED BY THEIR WORK. ALL RUBBISH, TOOLS, AND SURPLUS SUPPLIES AND MATERIALS SHALL BE REMOVED AT THE COMPLETION OF THE DAY'S WORK. LEAVE THE JOB IN A BROOM CLEAN CONDITION. PROVIDE DUST CONTROL DAILY.
21. DIMENSIONS: DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. ALL DIMENSIONS ARE TO FACE OF STUD OR TO FACE OF FRAMING UNLESS OTHERWISE NOTED. VERIFY ALL FRAMING DIMENSIONS AT CABINETS, ETC., TO INSURE PROPER FIT. ALL DIMENSIONS SHALL BE CONFIRMED AND CORRELATED BY THE CONTRACTOR AT THE JOB SITE. IN CASE OF ANY QUESTIONS, THE CONTRACTOR SHOULD NOTIFY THE ARCHITECT FOR FURTHER CLARIFICATION.
22. SHOP DRAWINGS & CONSULTANT'S DRAWINGS: REFER TO SHOP DRAWINGS AND CONSULTANT'S DRAWINGS FOR FURTHER PROJECT SCOPE AND COORDINATION REQUIREMENTS.
23. NEW WORK TO BLEND INTO EXISTING. FINISH TO NEAREST CORNER OR BREAK IN MATERIAL TYPE. PROVIDE J-STRIP AT EDGES OF GYP. BD. AGAINST DISSIMILAR MATERIALS. CAULK FOR NEAT APPEARANCE AND TO PREVENT WATER PENETRATION.

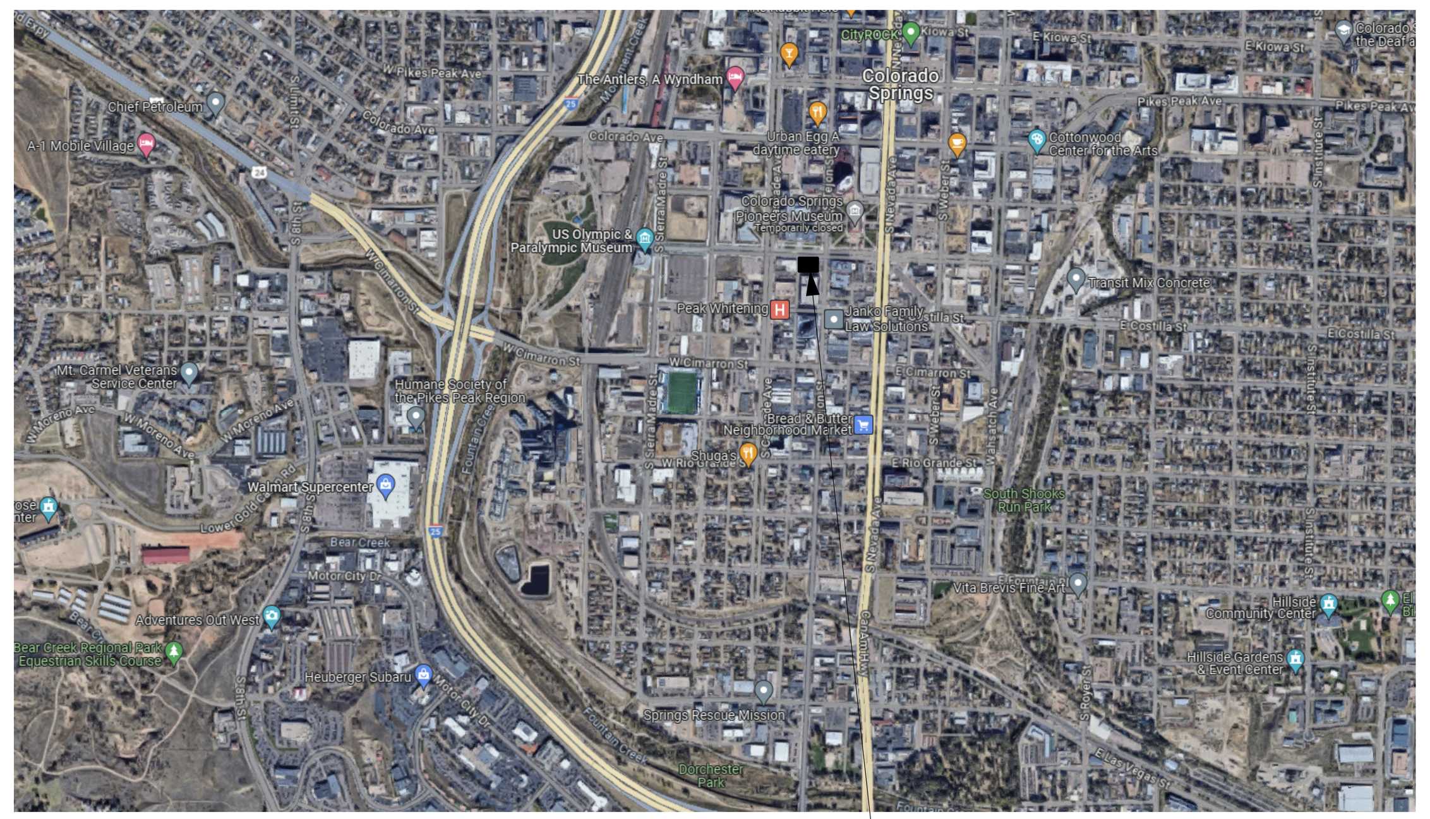


1 BASEMENT - AREA OF WORK
1/16" = 1'-0"



2 4TH LEVEL - AREA OF WORK
1/16" = 1'-0"

SHEET INDEX



VICINITY MAP
NOT TO SCALE

PROJECT LOCATION:
27 E. VERMIJO AVE
COLORADO SPRINGS CO
80903

NORTH

REVISIONS

	DATE	FOR
1	08-22-24	RBD rev.

TDG Architecture
201 East Las Animas, Suite 113
Colorado Springs, CO 80903
719.623.5641 (Phone)
719.623.5643 (Fax)

OFFICE OF THE SHERIFF REMODEL
27 East Vermijo Avenue
Colorado Springs, CO 80903

COVER SHEET

PERMIT SET

DATE: 05/14/24
DRAWN BY: TDG
CHECKED BY: TDG
PROJECT NO.: 23125

SHEET:
TS.0

GENERAL REQUIREMENTS

SUMMARY OF WORK:
1. Project identification: OFFICE OF THE SHERIFF - BASEMENT AND FOURTH FLOOR REMODEL
a) Location: 27 E VERMIJO, COLORADO SPRINGS, CO, 80903
b) Tenant: EL PASO COUNTY

2. Contract Documents: AS LISTED

3. The work consists of full services architectural design and construction documentation for tenant finish work as indicated in the Contract Documents.

Note: The General Contractor is responsible for payment on all permits required.

Building Standard Materials and Products: Provide building standard material and products as indicated in the technical specifications and on the Drawings, unless otherwise noted.

Contractor's Use of Premises: During construction, Contractor shall have limited use of building as indicated. Contractor's use of premises is limited only by Owner's right to perform work or employ other contractors on portions of Project. Contractor is responsible to coordinate access, work, and use of the freight elevator with Building Management.

Contract Modification Procedures: Upon the Owner's approval of a proposal from the Contractor, submitted either in response to a Proposal Request issued by the Architect or as a request for change from the Contractor, the Architect and tenant will approve a Change Order Request, for all changes to the Contract Sum or Contract Time.

Payment Procedures:
1. Submit a Schedule of Values, which breaks down the Contract Sum into at least one line item for each technical Specification Heading. Correlate the Schedule of Values with the Contractor's Construction Schedule.
2. Submit 3 copies of each Application for Payment, in accordance with the schedule established in the Agreement.
3. For the second Application through the Application submitted at Substantial Completion, submit partial releases of liens from each subcontractor or supplier for whom amounts were requisitioned on the previous payment.

Coordination: Progress meetings will be held at Project site every week. Owner, Architect, Contractor, and each subcontractor or other entity concerned with current progress or involved with planning or coordination of future activities, shall attend. Minutes of each meeting will be prepared by Contractor, and distributed to all parties present.

Cutting and Patching: Do not cut structural members without prior written approval of Structural Engineer unless indicated on design-build documents. For patching, provide materials whose installed performance will equal or surpass that of existing materials. For exposed surfaces, provide or finish materials to visually match existing adjacent surfaces to the fullest extent possible.

Submittal Procedures:
1. Construction Schedule: Submit [three (3)] copies of Construction Schedule to the Architect for review, [one (1)] copy will be returned to the Contractor. Construction Schedule shall be bar-chart format.
2. Coordinate submittal preparation with Construction Schedule, fabrication lead-times, other submittals and activities that require sequential operations.
3. No extension of Contract Time will be authorized due to failure to transmit submittals in time to permit processing sufficiently in advance of when materials are required in the Work.
4. Prepare submittals by placing a permanent label on each for identification. Provide a label to record review and approval markings and action taken. Include the following information on the label:
a) Project name.
b) Date.
c) Name and address of Contractor.
d) Name and address of subcontractor and supplier.
e) Title of appropriate technical Specification Heading.
5. Product Data: Submit [three (3)] copies and mark each copy to show applicable choices and options.
6. Shop Drawings: Submit newly prepared information drawn to scale. Indicate deviations from Contract Documents. Do not reproduce Contract Documents or copy standard information. Submit 1 reproducible print and 1 blue- or black-line print on sheets at least 8-1/2 by 11 inches but no larger than 30 by 42 inches. Architect will return the reproducible print.
7. Samples: Submit [three (3)] sample finishes as specified and identical with the material proposed. Where variations are inherent in the material, submit at least [three (3)] units that show limits of the variations. Include product name or name of the manufacturer.
8. Architect will review each submittal, mark as appropriate to indicate action taken, and return copies less those retained.

Temporary Facilities and Controls:
1. Standards: Comply with NFPA 241, "Standard for Safeguarding Construction, Alterations, and Demolition Operations"; ANSI A10 Series standards for "Safety Requirements for Construction and Demolition"; and NECA Electrical Design Library's "Temporary Electrical Facilities." Electrical service shall be in accordance with NEMA, NECA, and UL standards and regulations for temporary electric service. Install service in compliance with NFPA 70
2. Temporary Utilities:
a) Use of the Owner's existing sanitary facilities will be permitted, so long as facilities are cleaned and maintained in a condition acceptable to the Owner. At Substantial Completion, restore these facilities to the condition prevalent at the time of initial use
3. Temporary Controls:
a) Provide temporary barricades, warning signs, and lights to protect the public and construction personnel from construction hazards.

Product Requirements: The Owner and Architect may consider substitutions of specified materials which provide a savings in Contract Sum and/or Time. The Contract Sum and Time savings shall be identified at time of submittal. The request for substitution shall be submitted in reasonable and timely manner for review, as not to delay construction. Substitution submittals shall include product information, test data, samples (if applicable), delivery time, and cost information. If deemed acceptable by the Owner and Architect, the substitution submitted may be used by the Contractor. Acceptance of the substitution by the Owner and Architect does not relieve the Contractor of responsibility in performance or workmanship in relation to the substitution. The required warranties of any item of construction shall not be modified by substitutions.

Examination and Preparation: Examine substrates and conditions for compliance with manufacturer's written requirements including, but not limited to, surfaces that are sound, level, and plumb; substrates within installation tolerances; surfaces that are smooth, clean, and free of deleterious substances; and application conditions within environmental limits. Do not proceed with installation until unsatisfactory conditions have been corrected. Prepare substrates and adjoining surfaces according to manufacturer's written instructions.

Installation: Comply with manufacturer's written instructions for installation. Anchor each product securely in place, accurately located and aligned. Clean exposed surfaces and protect from damage. If applicable, prepare surfaces for field finishing.

Final Cleaning: Clean each surface or item as follows before requesting inspection for certification of Substantial Completion:
1. Remove labels that are not permanent.
2. Clean transparent materials, including mirrors. Remove excess glazing compounds. Replace chipped or broken glass.
3. Clean exposed finishes to a dust-free condition, free of stains, films, and foreign substances. Leave concrete floors broom clean.
4. Vacuum carpeted surfaces and wax resilient flooring.

Closeout Submittals:
1. Record Drawings: Maintain a set of Contract Drawings as Record Drawings. Mark to show installation that varies from the Work originally shown.
2. Operation and Maintenance Data: Organize data into 3-ring binders, with pocket folders for folded sheet information.
3. Submit one (1) copy of each of the above to the Architect for review.

Closeout Procedures:
1. Request Substantial Completion inspection once the following are complete:
a) Advise Owner of pending insurance changeover requirements.
b) Submit Record Drawings, maintenance manuals, warranties, and similar record information.
c) Deliver spare parts, extra stock, and similar items.
d) Complete startup testing of systems and instruction of operation and maintenance personnel.
e) Remove temporary facilities and controls.
f) Complete final cleanup.
g) Touch up, repair, and restore marred, exposed finishes.
h) Obtain final inspections from authorities having jurisdiction.
i) Obtain certificate of occupancy.
2. Upon receipt of a request for inspection, Architect will proceed with inspection or advise Contractor of unfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or advise Contractor of items that must be completed or corrected before the certificate will be issued.
3. Arrange for each installer of equipment that requires operation and maintenance to provide instruction to Owner's personnel.
4. Warranties:
a) Submit written warranties to the Architect prior to the date certified for Substantial Completion. If the Architect's Certificate of Substantial Completion designates a commencement date for warranties other than the date of Substantial Completion for the Work, or a designated portion of the Work, submit written warranties upon request of the Architect.
b) When the Contract Documents require the Contractor, or the Contractor and a subcontractor, supplier or manufacturer to execute a special warranty, prepare a written document that contains appropriate terms and identification, ready for execution by the required parties. Submit a draft to the Owner, through the Architect, for approval prior to final execution.
c) At Final Completion compile [two (2)] copies of each required warranty properly executed by the Contractor, or by the Contractor, subcontractor, supplier, or manufacturer. Organize the warranty documents into an orderly sequence based on each technical Specification Heading.

5. Request inspection for certification of final acceptance and final payment, once the following are complete:
a) Submit final payment request with releases of liens and supporting documentation. Include insurance certificates.
b) Submit a copy of the Substantial Completion inspection list stating that each item has been completed or otherwise resolved for acceptance.
c) Submit final meter readings for utilities, a record of stored fuel, and similar data as of the date of Substantial Completion.
d) Submit consent of surety to final payment.
6. Architect will reinspect the Work on receipt of notice that the Work has been completed.
7. On completion of reinspection, Architect will prepare a certificate of final acceptance. If the Work is incomplete, Architect will advise Contractor of the Work that is incomplete or obligations that have not yet been fulfilled.
8. AutoCad generated "as-builts" will be required from the GC upon completion of the project.

SELECTIVE DEMOLITION

Unless otherwise indicated, demolished materials become Contractor's property. Comply with EPA regulations and disposal regulations of authorities having jurisdiction. Conduct demolition without disrupting Owner's occupation of the building.

Items indicated to be removed and salvaged remain the Owner's property. Remove, clean, and pack or crate items to protect against damage. Identify contents of containers and deliver to Owner's designated storage area.

Remove, salvage, relocate and reinstall items as indicated on Drawings.

All light switches, telephone, electrical, CRT outlets, etc. indicated to be removed or relocated shall be completely removed. Patch and apply finish indicated. A cover plate will not be acceptable.

Maintain and protect existing utilities to remain in service before proceeding with demolition, providing bypass connections to other parts of the building. Locate, identify, shut off, disconnect, and cap off utility services to be demolished. Protect remaining walls, ceilings, floors, and exposed finishes. Erect and maintain dustproof partitions during construction. Cover and protect furniture, fixtures and equipment. Promptly patch and repair holes and damaged surfaces of building caused by demolition. Restore exposed finishes of patched areas and extend finish restoration into remaining adjoining construction. Promptly remove demolished materials from Owner's property and legally dispose of them. Do not burn demolished materials. Coordination of work that produces dust and or noise is mandatory. Both Colorado Springs Utilities and the Building Management should be notified when this work will occur to ensure employee safety and reduce disruption both in the area of work and surrounding.

INTERIOR ARCHITECTURAL WOODWORK

Submit Shop Drawings and Samples showing the full range of colors, textures, and patterns available for each type of finish.
Quality Standard: Architectural Woodwork Institute's "Architectural Woodwork Quality Standards."

Materials:
1. Hardboard: AHA A135.4.
2. Medium-Density Fiberboard: ANSI A208.2.
3. Particleboard: ANSI A208.1, Grade M-2.
4. Softwood Plywood: PS 1.
5. Hardwood Plywood and Face Veneers: HPVA HP-1.
6. High-Pressure Decorative Laminate: NEMA LD 3.

Cabinet Hardware and Accessories:
1. Cabinet Hardware:
a) Hinges: Blum fully concealed Module 90 series or equal for frameless type construction.
b) Pulls: Epco MC 400SS 5" wire type or equal. ADA compliant.
c) Drawer guides - KV 1284 Series or equal.
2. Exposed Hardware Finishes: For exposed hardware, provide finish that complies with BHMA A156.18 for BHMA code number indicated.
a) Finish: Satin Chrome: BHMA 626 or BHMA 652.
3. Furring, Blocking, Shims, and Hanging Strips: Fire-retardant-treated lumber, kiln dried to 15 percent moisture content.

Interior Woodwork:
1. Backout or groove backs of flat trim members, kerf backs of other wide, flat members, except for members with ends exposed in finished Work.
2. Interior Standing and Running Trim for Transparent Finish: Premium Grade.

Laminate-Clad Cabinets (Plastic-Covered Casework): Custom Grade.
1. AWI Type of Cabinet Construction: Flush overlay.
2. WIC Construction Style: Style A, Frameless.
3. WIC Door and Drawer Front Style: Flush overlay.
4. Laminate Cladding: Horizontal surfaces other than tops, GP-50; postformed surfaces, PF-42; vertical surfaces, GP-28; Edges, GP-50; semiexposed surfaces, CL-20.

Plastic-Laminate Countertops: Custom Grade.
1. Laminate Grade: GP-50.
2. Grain Direction: Parallel to cabinet fronts.
3. Edge Treatment: Same as laminate cladding on horizontal surfaces.

Shelving:
1. Prefinished shelving shall be Kortron R/B 45 lb. density, color - white (UNO), surfaced both sides with finished exposed edges of matching plastic tee mold.
2. Shelf standards/supports shall be KV 255/256 for cabinets, KV87-187A1 with brackets for shelves at walls and closets.

Finishing Of Interior Architectural Woodwork:
1. Transparent Finish: AWI Finish System TR-5, catalyzed vinyl lacquer.
2. Transparent Finish: WIC Finish System #1d., vinyl lacquer (catalyzed).

Installation:
1. Condition woodwork to prevailing conditions before installing.
2. Install woodwork to comply with AWI Section 1700 for grade specified.
3. Install woodwork level, plumb, true, and straight. Shim as required with concealed shims. Install to a tolerance of 1/8 inch in 96 inches (3 mm in 2400 mm) for level and plumb.
4. Scribe and cut woodwork to fit adjoining work, seal cut surfaces, and repair damaged finish at cuts.
5. Install trim with minimum number of joints possible, using full-length pieces to the greatest extent possible. Stagger joints in adjacent and related members.
6. Anchor countertops securely to base units. Seal space between backsplash and wall.
7. Anchor paneling to supports with concealed panel-hanger clips and by blind nailing on back-up strips, splined-connection strips, and similar associated trim and framing.

BUILDING INSULATION

Submit Product Data for each type of insulation product specified.
Surface-Burning Characteristics: ASTM E 84, flame-spread ratings of 25 and smoke-developed ratings of 50.

Mineral-Fiber-Blanket Insulation: ASTM C 665, Type I, unfaced with fibers manufactured from glass, slag wool, or rock wool and with R-value of 11.

FIRESTOPPING

Submit Product Data and product certificates signed by manufacturer certifying compliance with specified requirements.

Provide firestopping systems with fire-resistance ratings indicated by reference to UL designations as listed in its "Fire Resistance Directory," or to designations of another testing agency acceptable to authorities having jurisdiction.

Provide through-penetration firestopping systems with required F-ratings, as determined according to ASTM E 814, but not less than the fire-resistance rating of the constructions penetrated.

Provide through-penetration firestopping systems with T-ratings as well as F-ratings, as determined according to ASTM E 814, where indicated.

For exposed firestopping, provide products with flame-spread ratings of less than 25 and smoke-developed ratings of less than 450, as determined according to ASTM E 84.

Firestopping:
1. The manufacturers and products listed are approved for use.
a) Dow Corning: 2000 Series Sealant, Foam and Intumescent Wrap.
b) General Electric: 100 Sealant, 200 Foam.
c) 3M Fire Barrier: CP25 Sealants, Putty MPP and MPS, FS195 Wrap Strip.
d) USG.

Firestopping Materials, General:
1. Commercially manufactured products complying with the following minimum requirements.
a) Flame Spread: 25 Maximum in accordance with ASTM E 84.
b) Smoke Density: 50 Maximum in accordance with ASTM E 84.
c) Fuel Contribution: 25 maximum in accordance with ASTM E 84.
d) Nontoxicity: Nontoxic to human beings at all stages of application and during fire conditions.
2. Manufacturer's recommended damming materials as back-up for applied firestopping compounds.

Installation: Install firestopping systems to comply with manufacturer's written instructions and with requirements listed in the testing agency's directory for the indicated fire-resistance rating.

STEEL DOORS AND FRAMES

Submit Product Data and door schedule.

Comply with ANSI/SDI 100 and NFPA 80 for fire-rated door assemblies. Provide assemblies identical to those tested per ASTM E 152, and labeled and listed by UL, Warnock Hersey, or another testing and inspecting agency acceptable to authorities having jurisdiction.

Cold-Rolled Steel Sheets: Carbon steel complying with ASTM A 366 (ASTM A 366M), commercial quality, or ASTM A 620 (ASTM A 620M), drawing quality, special killed.

Interior Door Frames: Provide units with mitered or coped and continuously welded corners, formed from 0.0478-inch thick, cold-rolled steel for openings 48 inches or less in width and from 0.0598-inch thick steel for openings more than 48 inches in width.

Prepare doors and frames to receive mortised and concealed hardware according to SDI 107.

Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations relative to applying finishes.

FLUSH WOOD DOORS

Submit samples for factory-finished doors.

Interior Solid Core Doors for Transparent Finish: Custom Grade, 5- ply, glued-block core. Faces shall match extg. species and quality.

Interior Solid Core Doors for Opaque Finish: Custom Grade, 5- ply, glued-block. Faces shall be medium-density overlay.

Doors with Veneers: Book and balance matched.

Pair matching: Continuous matching for doors with transoms.

Fabrication and Finishing:
1. Factory fit doors to suit frame-opening sizes indicated and to comply with referenced quality standard.
2. Factory machine doors for hardware that is not surface applied.
3. Finish wood doors with NWWDA Standard grade, System 7, water-reducible acrylic lacquer finish.

DOOR HARDWARE

Submit hardware schedule. NOTE: Schlage hardware, no substitutions.
GC to key cylinders. GC to install. GC to coordinate with EPC Security.

For fire-rated openings provide hardware tested and listed by UL or FM (NFPA 80). On panic exit devices provide UL or FM label indicating "Fire Exit Hardware."

Door Hardware: As indicated in the Hardware Schedule on the Drawings.
1. Nonremovable hinge pins for exterior and public interior exposure.
2. Cylinders with 6-pin tumblers.
3. Dogging feature on non-fire-rated exit devices.
4. Key locks to Owner's existing master-key system. Provide key control system, including cabinet.

GLAZING

Submit Product Data and Samples.

Comply with written instructions of glass product manufacturers; FGMAs "Glazing Manual"; and publications of AAMA, LSGA, and SIGMA..

Fire-Resistance-Rated Assemblies: Products identical to those tested per ASTM E 152 for doors and ASTM E 163 for window assemblies; both labeled and listed by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.

Glass:
1. Float Glass: ASTM C 1036, Type I, Class 1 (clear), and Quality q3.
2. Heat-Treated Float Glass: ASTM C 1048, Condition A (uncoated), Type I, Class 1 (clear), Quality q3, Kind FT (fully tempered) u.n.o.

SPECIALTY GLASS @ PRIVATE OFFICES
Shower Door & Glass - Krystal Flutes 3/16" thick

RECESSED ELECTRONIC PROJECTION SCREEN

Submit Product Data and color Samples.

1. Screen Finish (Matt) color: white
2. Size: As noted on the drawings

TACKABLE FABRIC PANELS

Submit Product Data and color Samples.
Acoustical wall panels shall be manufactured to match existing thickness and qualities of the existing panels.

Sizes as shown on dwgs.
Edge profile - Small Bevel.
Panel Finish: To match existing panels.
Mounting via mechanical clip Mounting "Type A" per manufacturer.
Adhesive, fasteners and standard continuous wall leveling angle are to be supplied by the contractor. All other mountings are supplied by manufacturer.

GYPSUM BOARD ASSEMBLIES

Where STC-rated assemblies are required, provide materials and construction identical to assemblies whose STC ratings were determined according to ASTM E 90 and classified according to ASTM E 413 by a qualified independent testing agency.

Where fire-resistance-rated assemblies are required, provide materials and construction identical to assemblies tested according to ASTM E 119 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.

Metal Framing and Supports:
1. Steel framing components for suspended and furred ceilings complying with ASTM C 645 and ASTM C 754.
a) Wire Ties: ASTM A 641 (ASTM A 641M), Class 1 zinc coating, soft temper, 0.062 inch thick.
b) Hangers: Wire, ASTM A 641 (ASTM A 641M), Class 1 zinc coating, soft temper, 0.162-inch diameter.
c) Carrying Channels: Cold-rolled steel, 2 inches.
d) Furring Channels: 3/4-inch deep, cold-rolled channels.
2. Steel framing for partitions complying with ASTM C 645.
a) Studs and Runners: In depth indicated and 0.0179-inch thick, unless otherwise indicated.
b) Rigid Hat-Shaped Furring Channels: In depth indicated and 0.0179-inch thick, unless otherwise indicated.
c) Furring Brackets: Adjustable serrated-arm type fabricated from corrosion-resistant steel sheet 0.0329-inch thick.
d) Provide double 20 gage studs at each door jamb.
e) At perimeter of building, all partitions shall be centered on window mullions or column centerlines unless otherwise indicated.
f) Alignment of finished face of partition with finished face of existing column or partition is indicated on the drawing by the note "align".

Gypsum Board:
1. Gypsum Wallboard: ASTM C 36, in thickness indicated, with manufacturer's standard edges. Type X, where required.

Accessories:
1. Accessories for Interior Installation: Cornerbead, edge trim, and control joints complying with ASTM C 1047, formed from steel sheet zinc coated by hot-dip process or rolled zinc.
2. Acoustical Sealant for Exposed and Concealed Joints: Nonsag, paintable, nonstaining latex sealant complying with ASTM C 834.
3. Sound-Attenuation Blankets: Unfaced mineral-fiber-blanket insulation complying with ASTM C 665 for Type I.
Finishing Gypsum Board Assemblies: In accordance with GA-214; Level 4 finish, unless otherwise indicated; Level 1 finish for concealed areas, unless a higher level of finish is required for fire-resistance-rated assemblies; and Level 2 finish where panels form substrates for tile.

SEALING AND FINISHING RESILIENT FLOORING

Strip flooring, then apply 2 coats (min) of a sealer approved by manufacturer and then 3 coats (min) of a finish approved by the manufacturer. Follow all directions on products recommended by the manufacturer.

RESILIENT WALL BASE AND ACCESSORIES

Submit Product Data, color Samples.

Deliver to Owner at least 10 linear feet for each 500 linear feet or fraction thereof, of each type and color of resilient wall base installed.

Provide resilient rubber wall base and accessories as scheduled on the Drawings.

Apply resilient rubber wall base to walls in 80 feet lengths, columns, pilasters, casework, and other permanent fixtures in rooms or areas where base is required. Form wall base corners from straight pieces. Install reducer strips at edges of flooring at dissimilar materials and exposed concrete floors.

CARPET

Submit Product Data and color Samples.

Installer Qualifications: Engage an experienced Installer who is certified by the Floor Covering Installation Board (FCIB) or who can demonstrate compliance with FCIB certification program requirements.

Carpet and carpet cushions that have flame-spread and smoke-developed ratings of 25 or less and 450 or less, respectively, when tested according to ASTM E 84. Comply with CRI 104, Section 6, "Site Conditions."

Deliver to Owner full-width carpet equal to 5 percent of each type and color carpet installed, packaged with protective covering for storage.

Verify with Owner what attic stock is available for use on ALL carpet types prior to ordering new. If new carpet is required provide carpet as scheduled on the Drawings.

Comply with CRI 104, Section 8, "Direct Glue-Down".

Install carpet tiles such that there is no piece smaller than 10" at thresholds of doorway and there is no piece smaller than 6" in direct traffic areas. Float transition between new and existing tiles to eliminate thickness differential. Verify layout with Architect if conflicts or questions arise.

PAINTING

Submit Product Data and prepared color Samples.

Deliver to Owner a 1-gal. (3.8-L) container, properly labeled and sealed, of each color and type of finish coat paint used on Project.

Paint: Manufacturer's first-line quality paint material of the various coating types as specified and as indicated on the finish plan.

Comply with paint manufacturer's written instructions for surface preparation, environmental and substrate conditions, product mixing, and application.

Interior Paint Schedule:
1. Concrete Masonry Units:
a) Flat Acrylic: 2 coats over block filler.
b) Satin, Acrylic Enamel: 2 coats over block filler.
c) Semigloss, Alkyd Enamel: 2 coats over undercoat and filled surface.
2. Gypsum Board:
a) Flat Acrylic: 2 coats over primer.
b) Satin, Acrylic Enamel: 2 coats over primer.
c) Satin Alkyd Enamel: 2 coats over primer.
3. Acoustical Panel Ceiling: Flat, Acrylic-latex: 2 coats.
4. Woodwork and Hardboard:
a) Semigloss, Acrylic Enamel: 2 coats over primer.
b) Semigloss, Acrylic Enamel: 2 coats over wood undercoater.
c) Semigloss, Alkyd Enamel: 2 coats over primer.
5. Stained Woodwork:
a) Alkyd-Based, Satin Varnish: 2 coats clear-satin varnish over sealer and wood stain.
b) Waterborne, Satin Varnish: 2 coats clear-satin varnish over sealer and wood stain.
c) Water-Based, Full-Gloss, Varnish: 2 coats Full-Gloss varnish over sealer and wood stain.
d) Alkyd-Based Stain, Wax-Polished Finish: 3 coats paste wax over sealer and wood stain.
6. Natural-Finish Woodwork:
a) Alkyd-Based, Satin Varnish: 2 coats clear-satin varnish over sealer.
b) Waterborne, Satin Varnish: 2 coats clear-satin varnish over sealer.
c) Water-Based, Full-Gloss, Varnish: 2 coats Full-Gloss varnish over sealer.
d) Wax-Polished Finish: 3 coats paste wax over sealer.
7. Ferrous Metal:
a) Flat Acrylic: 2 coats over primer.
b) Low-Luster, Acrylic Enamel: 2 coats over primer.
c) Semigloss, Acrylic Enamel: One coat over undercoater and primer.
d) Semigloss, Alkyd Enamel: One coat over undercoater and primer.
e) Full-Gloss, Acrylic Enamel: 2 coats over primer.
f) Full-Gloss, Alkyd Enamel: 2 coats over undercoater and primer.

VISUAL DISPLAY MATERIAL
Submit Product Data and color Samples. All boards 8'w x 4'h unless noted otherwise.

Markerboards:
1. Materials: Walltalker Erase Rite Marker Surface; Color White, 54" Wide
2. Operation: Fixed.
3. Trim: Metal trim and tray, anodized finish. Match EPC standard.

ACOUSTICAL PANEL CEILINGS

Submit Product Data and material Samples.

Acoustical Panel Ceilings: Comply with ASTM E 1264 for Class A materials, as determined by testing identical products per ASTM E 84.

Acoustical Panels: Match existing size and finish, and adjacent ceiling height. NO SUBSTITUTIONS.

Ceiling Suspension Systems:
1. Direct-hung suspension system, with intermediate-duty structural classification according to ASTM C 635.
2. Size attachment devices for 5 times the design load indicated in ASTM C 635, Table 1, Direct Hung, unless otherwise indicated.
3. Zinc-coated carbon-steel wire hangers, braces, and ties complying with ASTM A 641 (ASTM A 641M), Class 1 zinc coating, soft temper.

Installation:
1. CISCA's "Ceiling Systems Handbook."
2. CISCA's "Recommendations for Direct-Hung Acoustical Tile and Lay-in Panel Ceilings."
3. ASTM C 636, "Standard for Ceiling Suspension System Installations."
4. U.B.C. Standard 47-18.

RESILIENT TILE FLOORING

Submit Product Data and color Samples.

Deliver to Owner at least 1 linear ft. of goods per every 50 linear ft. goods used or fraction thereof, of each type and color resilient goods installed.

Provide resilient floor rolled goods as scheduled on the Drawings.

Lay out rolled goods from center marks established with principal walls, discounting minor offsets, so widths at opposite edges of room are equal to one another.
Match color and pattern as exists in installation.

NOTE:
SPECIFICATIONS ARE GENERAL AND NOT ALL DIVISIONS ARE APPLICABLE TO THIS PROJECT. VERIFY WITH CONSTRUCTION DOCUMENTS AS TO WHICH APPLY.

REVISIONS		
	DATE	FOR

COLORADO LICENSED
Sharon L. Allen
305897
ARCHITECT

TDG Architecture
201 East Las Animas, Suite 113
Colorado Springs, CO 80903
719.623.5641 (Phone)
719.623.5643 (Fax)

OFFICE OF THE SHERIFF REMODEL
27 East Vermijo Avenue
Colorado Springs, CO 80903

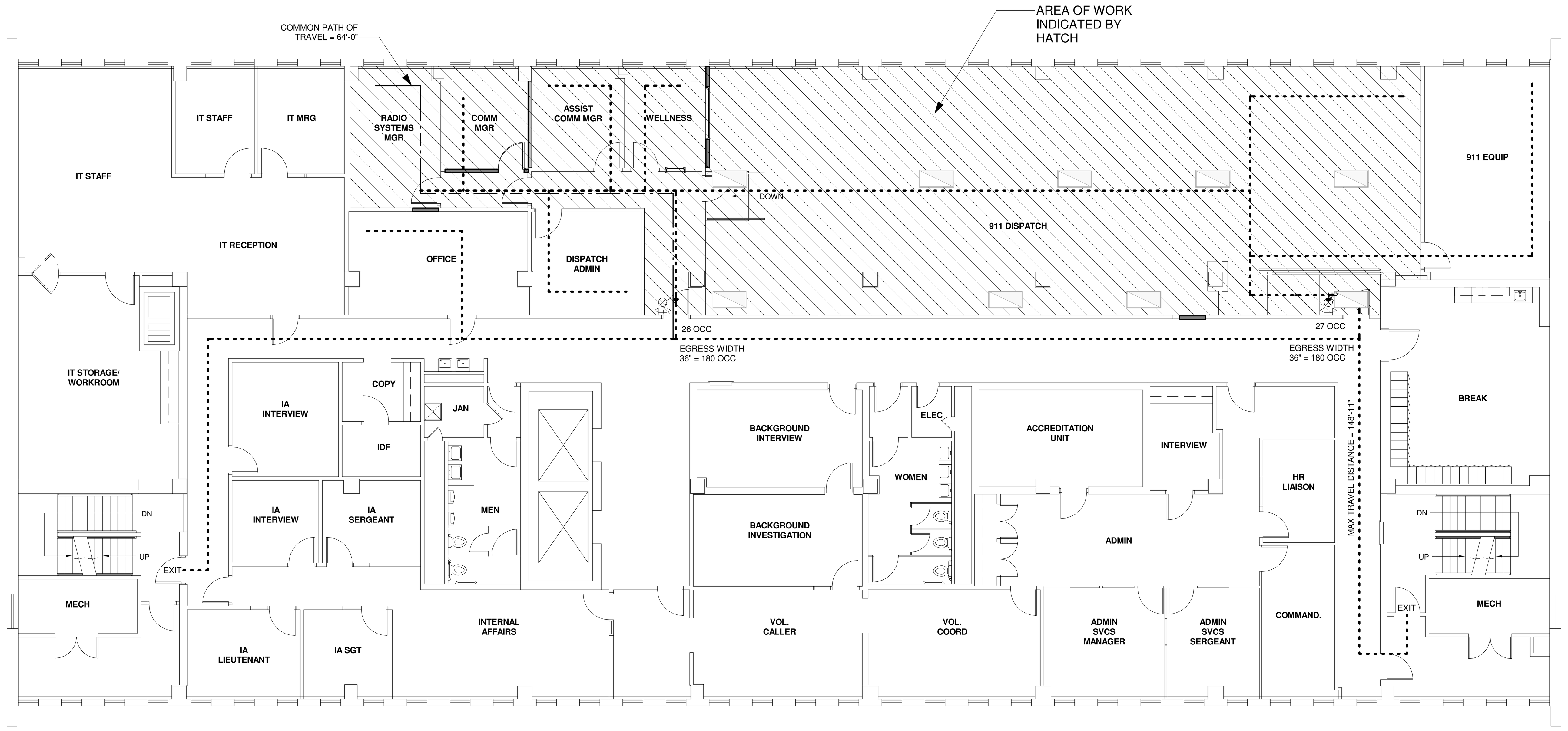
ARCHITECTURAL SPECIFICATIONS

Released for Permit
08/30/2024 8:04:14 AM
Pikes Peak REGIONAL Building Department
bphillips
CONSTRUCTION

PERMIT SET

DATE: 05/14/24
DRAWN BY: TDG
CHECKED BY: TDG
PROJECT NO.: 23125

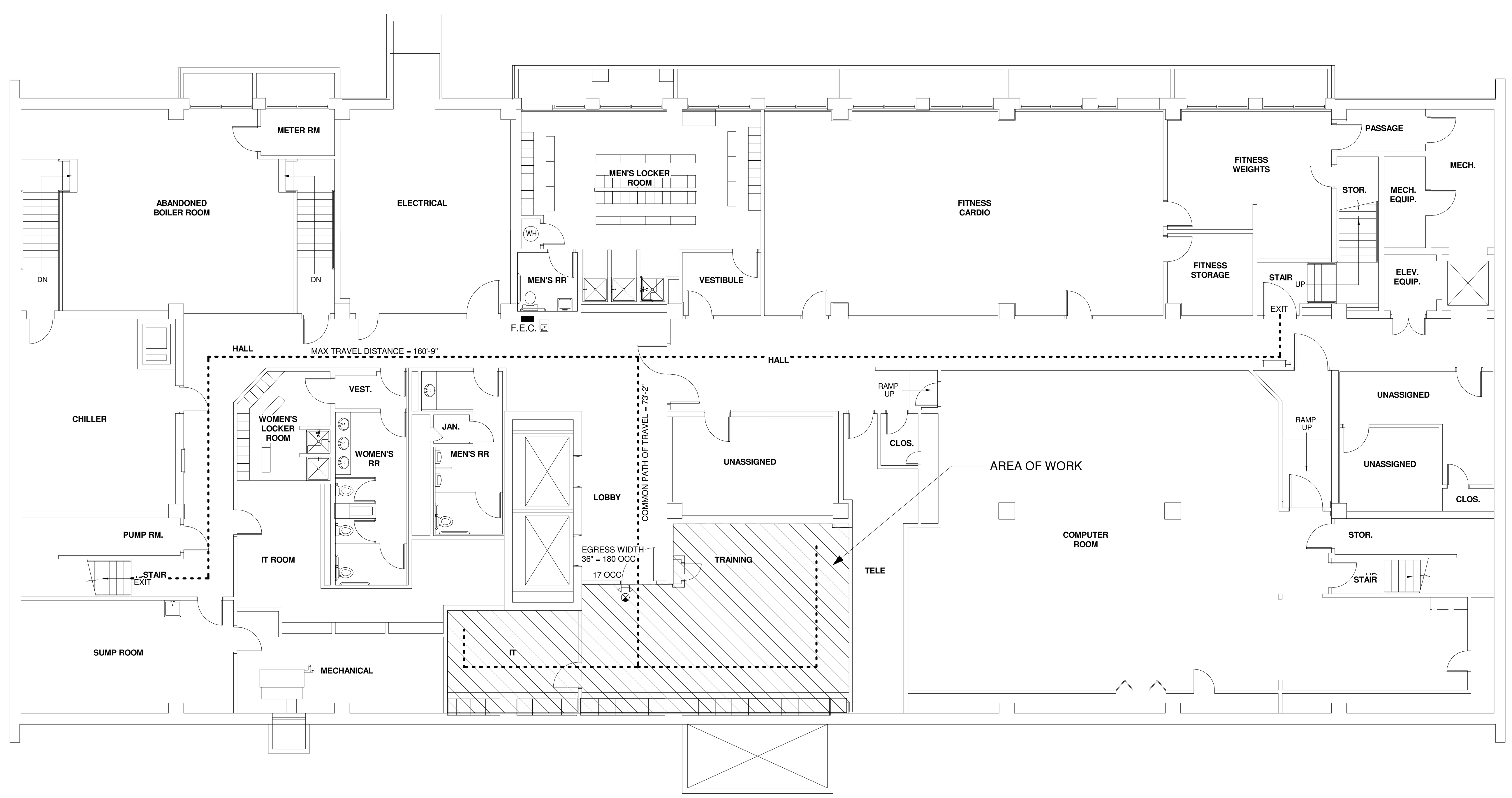
SHEET:
AC.0



2 4TH LEVEL - LIFE SAFETY PLAN

3/32" = 1'-0"

NORTH



1 BASEMENT - LIFE SAFETY PLAN

3/32" = 1'-0"

NORTH

EGRESS SYMBOL LEGEND

- EMERGENCY/EGRESS LIGHT
- EMERGENCY/EGRESS LIGHT
- EXIT SIGN

GOVERNING CODES

2023 PIKES PEAK REGIONAL BUILDING CODE
2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL EXISTING BUILDING CODE, LEVEL 2 ALTERATION
2020 NATIONAL ELECTRICAL CODE
2021 IMC/IFGC MECH. CODES
2021 INTERNATIONAL PLUMBING CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2021 INTERNATIONAL FIRE CODE

2017 ICC/ANSI A117.1 ACCESSIBLITY STANDARD

PROJECT DATA

REFER TO SHEETS AC.0 FOR ADDITIONAL CODE REVIEW DATA

PROJECT ADDRESS:
27 E VERMIJO AVE
COLORADO SPRINGS, CO, 80903

ZONING:
FBZ-CEN

TAX SCHEDULE NUMBER:
6418311027

PLAT NO.: R11992

LEGAL DESCRIPTION:
LOT 1 EL PASO COUNTY PARKING STRUCTURE, EX THAT PT CONV TO COUNTY FACILITIES BY REC # 207102198

PROJECT DESCRIPTION:
THIS PROJECT IS A RECONFIGURATION OF EXISTING OFFICES TO REMODEL THE FOURTH FLOOR EMERGENCY SERVICES DISPATCH AREA AND EXISTING BASEMENT OFFICES TO A NEW TRAINING AREA.

EXISTING BUILDING CODE INFORMATION:
ORIGINAL CONSTRUCTION DATE: 1959
CONSTRUCTION TYPE: I-B
SPRINKLERED: NON-SPRINKLERED
OCCUPANCY TYPE(S): B - OFFICE BUILDING
NON-SEPARATED USES

EXISTING TENANT SPACE INFORMATION:
EXISTING BUILDING AREA:

BASEMENT, BUSINESS	12,886 SF
FIRST FLOOR, BUSINESS	12,960 SF
SECOND FLOOR, BUSINESS	12,960 SF
THIRD FLOOR, BUSINESS	12,960 SF
FOURTH FLOOR, BUSINESS	12,960 SF
TOTAL	64,726 SF

AREA OF REMODEL: 830 SF (BASEMENT) + 3,146 SF (4TH FLOOR) = 3,976 SF

EXISTING:			
B, B01 IT	371 SF	1/50	7 OCC
B, B01A OFFICE	127 SF	1/150	1 OCC
B, B01B OFFICE	113 SF	1/150	1 OCC
B, B01C IT	190 SF	1/50	4 OCC
SUBTOTAL	801 SF		13 OCC
B, 410A RADIO SYSTEMS MGR	162 SF	1/150	1 OCC
B, 410B COMM MGR	154 SF	1/150	1 OCC
B, 411A ASSIST COMM MGR	126 SF	1/150	1 OCC
B, 411B COMMANDER	259 SF	1/150	2 OCC
B, 411C SUPERVISORS	216 SF	1/150	1 OCC
B, 416 911 DISPATCH	1,311 SF	1/50	26 OCC
B, 417 DISPATCH TRAINING	644 SF	1/50	13 OCC
SUBTOTAL	2,872 SF		45 OCC
EXISTING TOTAL			58 OCC
NEW:			
B, B01 TRAINING	627 SF	1/50	13 OCC
B, B01C IT	190 SF	1/50	4 OCC
SUBTOTAL	817 SF		17 OCC
B, 410A OFFICE	162 SF	1/150	1 OCC
B, 410B OFFICE	112 SF	1/150	1 OCC
B, 411A OFFICE	234 SF	1/150	2 OCC
B, 416 911 DISPATCH	2,342 SF	1/50	47 OCC
SUBTOTAL	4,484 SF		51 OCC
NEW TOTAL			68 OCC

REMODEL INCREASES OCCUPANCY BY 10 PEOPLE.

REMODEL DOES NOT CHANGE EXIT REQUIREMENTS.
REMODEL DOES NOT CHANGE FIRE REQUIREMENTS.
REMODEL DOES NOT CHANGE PLUMBING FIXTURE REQUIREMENTS.

REVISIONS	DATE	FOR
1	08-22-24	RBD rev.

COLORADO LICENSED ARCHITECT Sharon L. Allen 305897

TDG Architecture
201 East Las Animas, Suite 113
Colorado Springs, CO 80903
719.623.5641 (Phone)
719.623.5643 (Fax)

OFFICE OF THE SHERIFF REMODEL
27 East Vermijo Avenue
Colorado Springs, CO 80903

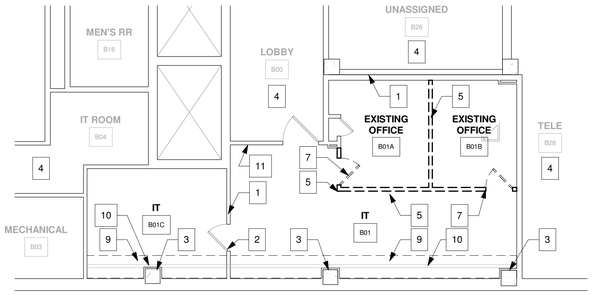
CODE REVIEW

Released for Permit 08/30/2024 9:04:14 AM Pikes Peak Regional Building Department CONSTRUCTION

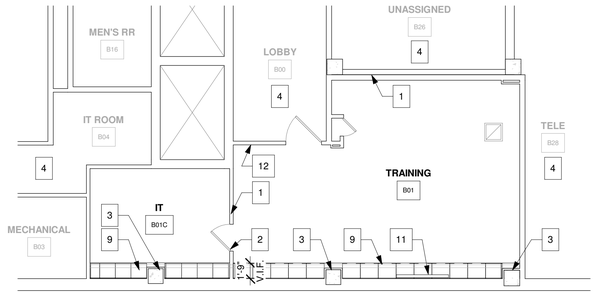
PERMIT SET

DATE: 05/14/24
DRAWN BY: Author
CHECKED BY: Checker
PROJECT NO.: 23125

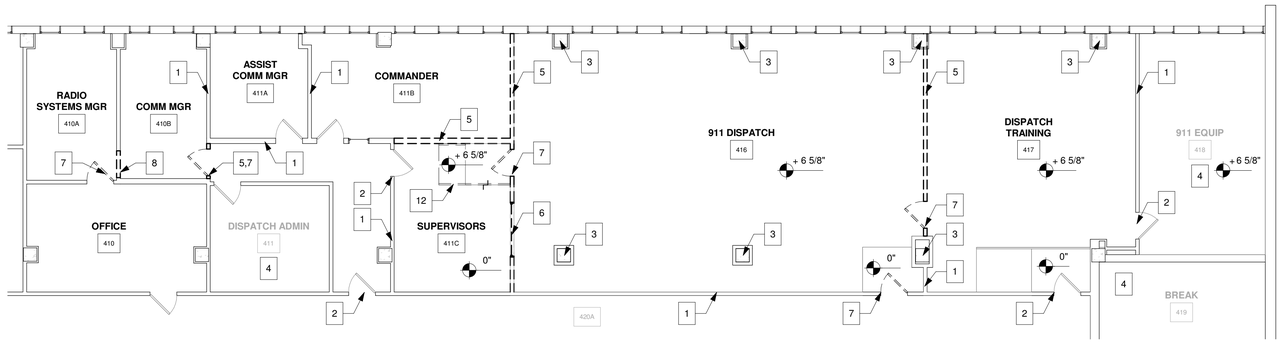
SHEET:
AC.1



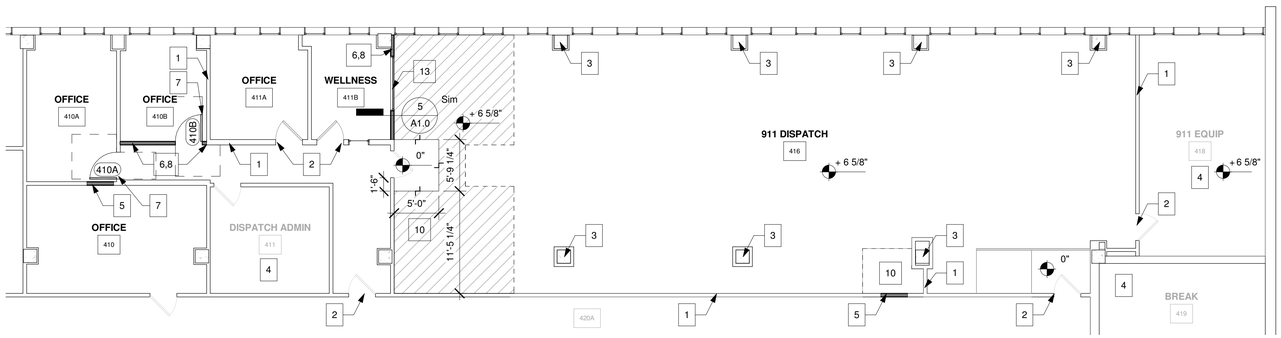
1 DEMOLITION - BASEMENT FLOOR PLAN
1/8" = 1'-0"



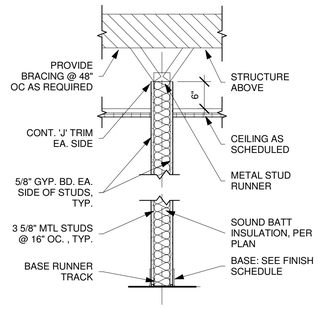
2 CONSTRUCTION - BASEMENT FLOOR PLAN
1/8" = 1'-0"



3 DEMOLITION - FOURTH FLOOR PLAN
1/8" = 1'-0"



4 CONSTRUCTION - FOURTH FLOOR PLAN
1/8" = 1'-0"



5 WALL TYPE "A" DETAIL
3/4" = 1'-0"

DEMOLITION PLAN GENERAL NOTES

A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE SITE AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO STARTING ANY WORK OR WHEN DISCREPANCIES REVEAL THEMSELVES.
B. ALL ELECTRICAL/TELEPHONE CONDUIT AND/OR PLUMBING WITHIN DEMOLISHED PARTITIONS AND/OR MILLWORK SHALL BE REMOVED TO THE POINT OF ORIGIN OR TERMINATED OR REMOVED UP TO A POINT REQUIRED FOR INTERFACE WITH NEW CONSTRUCTION. CONDUIT AND/OR PLUMBING SHALL NOT BE EXPOSED IN EITHER NEW OR EXISTING CONSTRUCTION.
C. ALL WALLS NOTED TO BE REMOVED SHALL BE FULLY REMOVED. NO PONY WALLS ABOVE CEILING (U.N.O.) RE-ATTACHED/RELOCATE ANY ITEMS TO REMAIN WHICH HAY HAVE BEEN ATTACHED TO WALL.
D. PATCH AND REPAIR EXISTING CONSTRUCTION/FINISHED. PREPARE FOR NEW FINISHES AS REQUIRED.
E. CONTRACTOR TO VERIFY DISPOSAL OR STORAGE OF REMOVED EQUIPMENT SUCH AS APPLIANCES, EQUIPMENT, ETC. WITH OWNER.
F. ALL EXISTING FURNITURE AND EQUIPMENT TO BE REMOVED AND TURNED OVER TO THE OWNER, TYP.

DEMOLITION PLAN KEYNOTES:

NUMBER

1 EXISTING INTERIOR WALL TO REMAIN, SHOWN SOLID, TYP.
2. EXISTING DOOR TO REMAIN, SHOWN SOLID, TYP.
3. EXISTING COLUMN TO REMAIN, TYP.
4. NO WORK THIS AREA
5. EXISTING INTERIOR WALL TO BE REMOVED, SHOWN DASHED, TYP.
6. EXISTING INTERIOR WINDOW TO BE RELOCATED, SHOWN DASHED, TYP.
7. EXISTING DOOR TO BE REMOVED AND RETURNED TO OWNER, SHOWN DASHED, TYP.
8. NEW OPENING IN EXISTING WALL
9. EXISTING CASEWORK AND SHELVING TO BE REMOVED, PATCH AND PAINT WALL TO MATCH EXISTING, SHOWN DASHED
10. EXISTING PIPE TO REMAIN, PROTECT DURING CONSTRUCTION
11. EXISTING ELECTRICAL PANELS TO REMAIN, MAINTAIN ACCESS AND CLEAR SPACE
12. EXISTING RAMP AND HANDRAILS TO BE REMOVED, SHOWN DASHED

CONSTRUCTION GENERAL NOTES:

A. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING HIS/HER BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT.
B. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS ON THE SITE AND NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING BEFORE STARTING ANY WORK.
C. PROVIDE NONCOMBUSTIBLE, FIRE RETARDANT TREATED PROVIDE NONCOMBUSTIBLE, FIRE RETARDANT TREATED WOOD BLOCKING IN WALLS AS REQUIRED FOR WALL MOUNTED MILLWORK, PANELS, EQUIPMENT, ACCESSORIES, SHELVING, WALL STOPS, AND FURNITURE. VERIFY LOCATION WITH FURNITURE VENDOR.
D. REPAIR FLOOR TO SMOOTH LEVEL SURFACE BEFORE REPAIR FLOOR TO SMOOTH LEVEL SURFACE BEFORE INSTALLING NEW FLOORING. FLOAT FLOOR AS REQUIRED TO ELIMINATE ANY CHANGE IN FINISH ELEVATION BETWEEN ADJACENT MATERIALS. ALL FLOOR PREP TO BE INCLUDED IN PRICING.
E. VERIFY AVAILABILITY OF MATERIALS TO BE USED FROM VERIFY AVAILABILITY OF MATERIALS TO BE USED FROM BUILDING STOCK W/ BUILDING MANAGEMENT, IF APPLICABLE.
F. CONTRACTOR SHALL FIELD MEASURE EXISTING CONDITIONS CONTRACTOR SHALL FIELD MEASURE EXISTING CONDITIONS PRIOR TO ORDERING, FABRICATING OR PERFORMING ANY NEW WORK. DEVIATIONS FROM CONDITIONS SHOWN ON THESE DRAWINGS SHALL BE REPORTED TO THE ARCHITECT. DIFFERING SITE CONDITIONS FROM THOSE ON THE PLANS WILL GENERALLY NOT BE CONSIDERED A BASIS FOR CONTRACT MODIFICATIONS. THE CONTRACTOR SHALL ALLOW FOR WORST CASE SITE CONDITIONS WHENEVER POSSIBLE.
G. ALL ADHESIVE USED IN CONSTRUCTING NEW FACILITY TO BE ALL ADHESIVE USED IN CONSTRUCTING NEW FACILITY TO BE NON-TOXIC AND ENVIRONMENTALLY SAFE.
H. MAINTAIN ONE SET OF RED LINE AS-BUILT DRAWINGS AT THE MAINTAIN ONE SET OF RED LINE AS-BUILT DRAWINGS AT THE JOB SITE AND SUBMIT TO THE ARCHITECT AT THE COMPLETION OF THE WORK.

CONSTRUCTION PLAN KEYNOTES:

1 EXISTING INTERIOR WALL TO REMAIN, TYP.
2. EXISTING DOOR TO REMAIN, TYP.
3. EXISTING COLUMN TO REMAIN, TYP.
4. NO WORK THIS AREA
5. PATCH AND REPAIR EXISTING WALL FROM DEMO AND NEW CONSTRUCTION. MATCH EXISTING GYP. TEXTURE AND FINISH.
6. ALIGN NEW WALL TO EXISTING, PATCH AND REPAIR EXISTING WALL FROM DEMO AND NEW CONSTRUCTION. MATCH EXISTING GYP. TEXTURE AND FINISH.
7. NEW WOOD DOOR, STAINED TO MATCH EXISTING
8. NEW WALL TO 6" ABOVE CEILING, 3-5/8" MTL STUDS @ 16" OC. W/ 5/8" GYP. BD. EA. SIDE, TYP. W/ SOUND BATT INSULATION. MATCH EXISTING GYP. TEXTURE & FINISH
9. NEW MILLWORK, BY OTHERS
10. NEW RAISED FLOORING TO BE FLUSH WITH EXISTING RAISED FLOORING, SHOWN W/ HATCH
11. NEW MONITOR. PROVIDE POWER AND DATA AT 60" A.F.F.
12. EXISTING ELECTRICAL PANELS TO REMAIN, MAINTAIN ACCESS AND CLEAR SPACE
13. RELOCATED INTERIOR WINDOW, HEAD HEIGHT TO MATCH DOOR HEAD HEIGHT

TYPICAL WALL LEGEND

EXISTING WALL TO REMAIN

EXISTING WALL TO BE REMOVED, REFER TO THE DEMOLITION PLAN

NEW 3-5/8" MTL STUD WALL @ 16" O.C. W/ 5/8" GYP. BD. EA. SIDE TO 6" ABOVE CEILING

NEW 6" MTL STUD WALL @ 16" O.C. W/ 5/8" GYP. BD. EA. SIDE TO 6" ABOVE CEILING

0' 4' 8' 16' 32'

NORTH

APPROVED
09/11/2024 8:13:18 AM
Stefanie.Sadler
COLORADO SPRINGS
OLYMPIC CITY USA
City Development Review

REVISIONS		
	DATE	FOR

COLORADO LICENSED
Sharon L. Ames
305897
ARCHITECT

TDG Architecture
201 East Las Animas, Suite 113
Colorado Springs, CO 80903
719.623.5641 (Phone)
719.623.5643 (Fax)

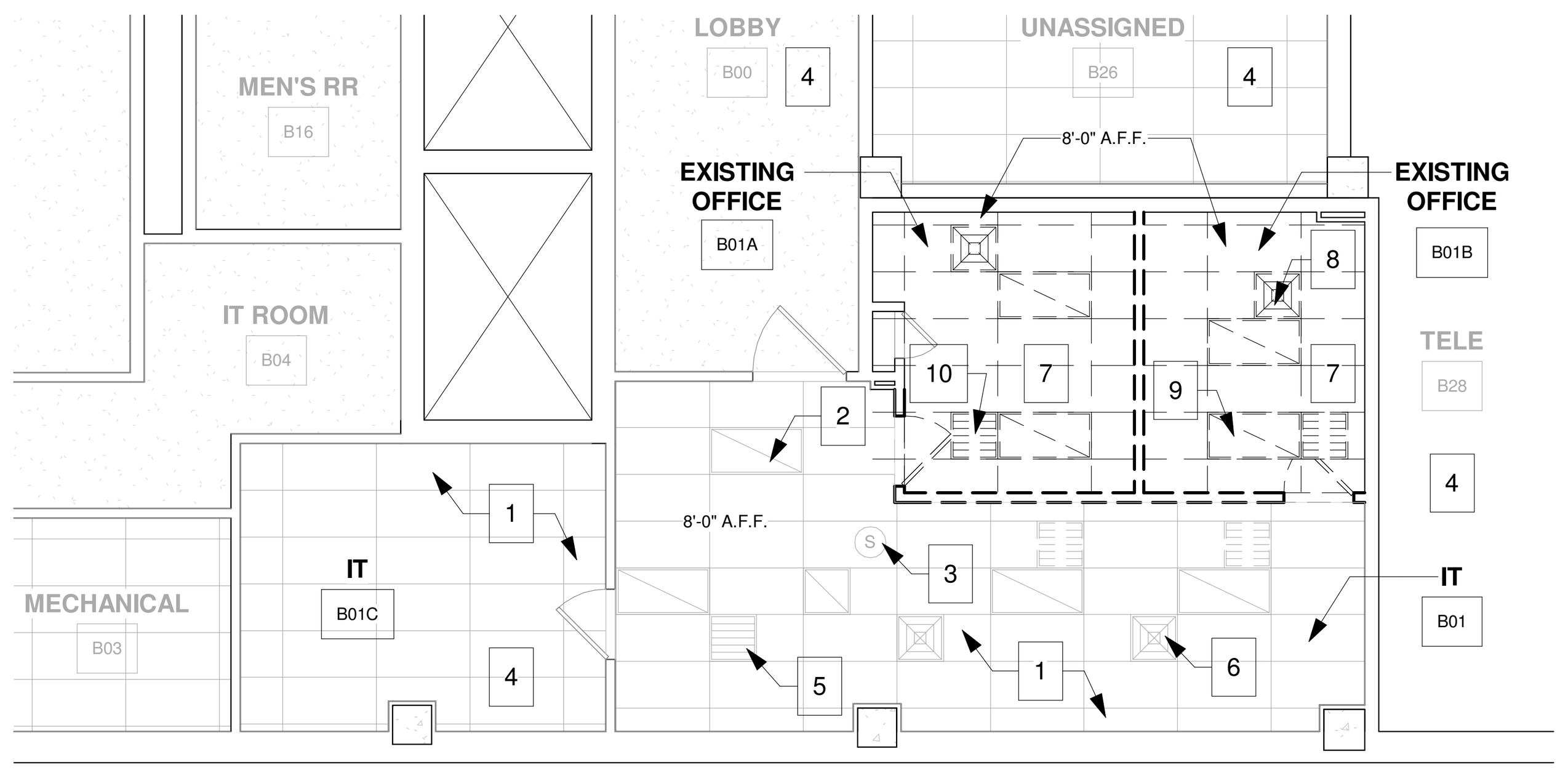
OFFICE OF THE SHERIFF REMODEL
27 East Vermijo Avenue
Colorado Springs, CO 80903

BASEMENT & 4TH LEVEL CONSTRUCTION & DEMO PLANS

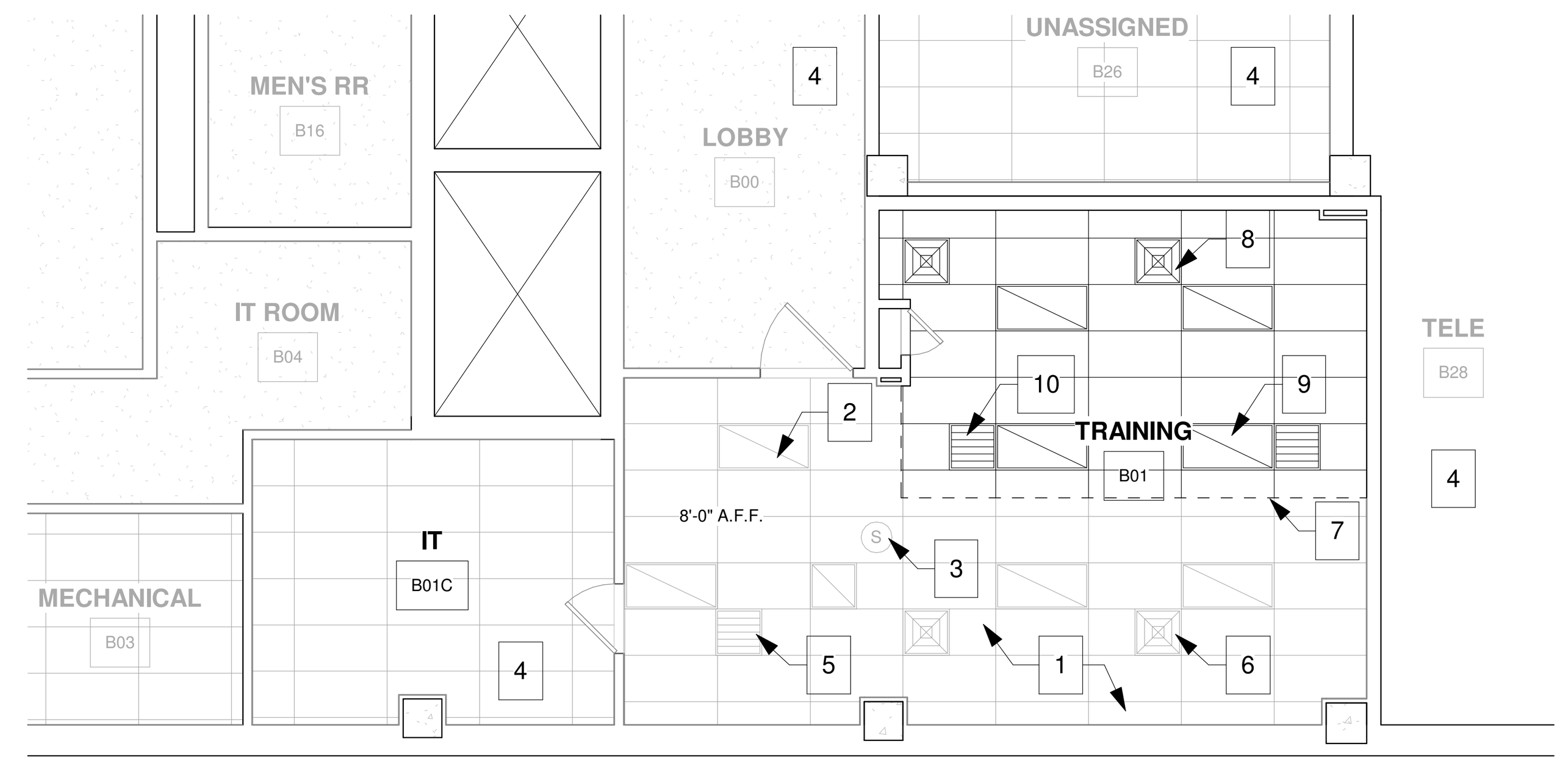
Authorized for Permit
08/30/2024 8:04:15 AM
REGIONAL Building Department
EL PASO COUNTY, COLORADO
CONSTRUCTION
PERMIT SET

DATE: 05/14/24
DRAWN BY: TDG
CHECKED BY: TDG
PROJECT NO.: 23125

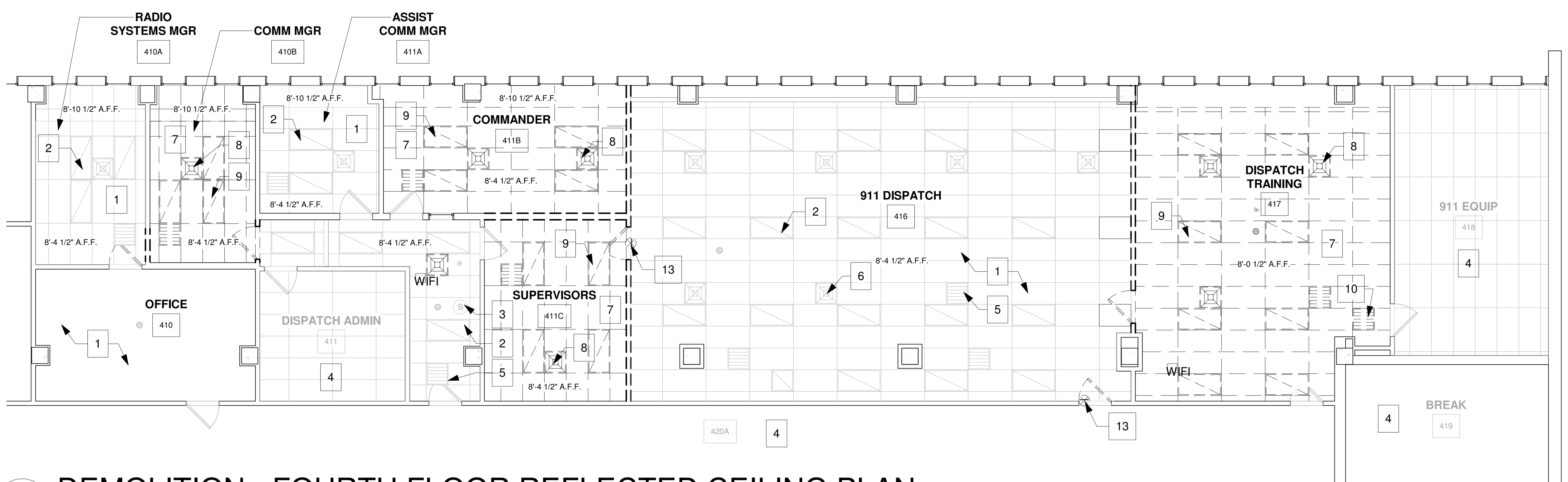
SHEET:
A1.0



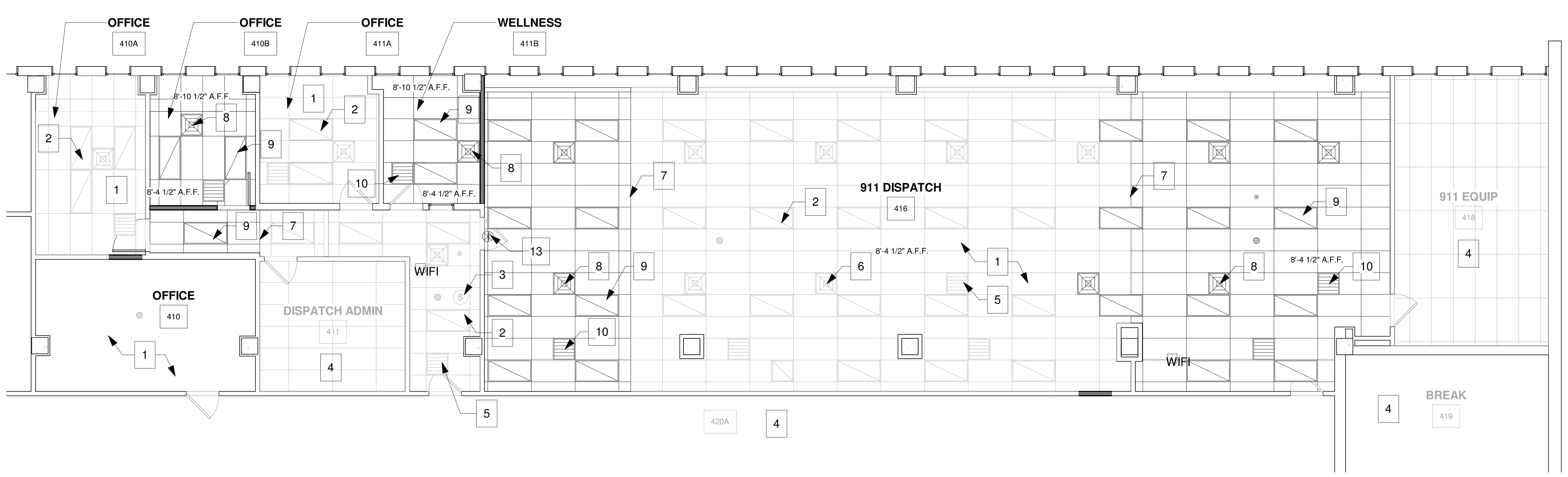
1 DEMOLITION - BASEMENT REFLECTED CEILING PLAN
1/8" = 1'-0"



2 CONSTRUCTION - BASEMENT REFLECTED CEILING PLAN
1/8" = 1'-0"



3 DEMOLITION - FOURTH FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



4 CONSTRUCTION - FOURTH FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

GENERAL RCP NOTES

A. EXISTING LIGHT FIXTURES, MECHANICAL SUPPLY AND RETURNS TO BE REUSED WHERE POSSIBLE. CLEAN SUPPLY AND RETURN GRILLS TO LIKE NEW CONDITION IN ROOMS AFFECTED BY REMODEL
B. MAINTAIN FIRE PROTECTION DEVICES, INCLUDING SMOKE DETECTORS, FIRE ALARMS, ALARM SPEAKERS, ADA STROBES, ETC. INCLUDE COSTS TO TIE SUCH DEVICES INTO BUILDING PANEL. VERIFY REQUIREMENTS AND QUANTITIES OF EACH DEVICE. GC TO CONTRACT AND COORDINATE WORK.
C. BALANCE HVAC AS REQUIRED FOR NEW LAYOUT, PER MECHANICAL PLANS. PROVIDE TEST AND BALANCE TO MECHANICAL ENGINEER.
D. RECONFIGURE SPRINKLER SYSTEM FOR NEW ROOM AS REQUIRED BY NFPA GUIDELINES AND CURRENT FIRE CODES. NEW SPRINKLER HEADS TO MATCH EXISTING SPRINKLER HEADS.
E. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
F. SEE MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
G. PROVIDE COORDINATION BETWEEN LIGHTING, MECHANICAL DUCTWORK AND EXISTING BEAMS PRIOR TO CONSTRUCTION. DUCTWORK TO BE HELD TIGHT TO UNDERSIDE OF DECKING WHERE POSSIBLE AND TIGHT TO BEAMS.

DEMOLITION RCP KEYNOTES

NUMBER

1. EXISTING ACOUSTIC CEILING GRID TO REMAIN, TYP.
2. EXISTING LIGHT TO REMAIN, TYP.
3. EXISTING CEILING SMOKE DETECTOR TO REMAIN, TYP.
4. NO WORK THIS AREA
5. EXISTING RETURN AIR GRILLE TO REMAIN, TYP.
6. EXISTING AIR SUPPLY TO REMAIN, TYP.
7. CEILING GRID TO BE REMOVED FOR NEW CONSTRUCTION. SALVAGE TILES FOR REUSE, TYP.
8. EXISTING AIR SUPPLY TO BE RELOCATED, SEE MECHANICAL, TYP.
9. EXISTING LIGHT TO BE RELOCATED, SEE ELECT., TYP.
10. EXISTING RETURN AIR GRILLE TO BE RELOCATED OR REMOVED, SEE MECHANICAL.
11. EXISTING CEILING MOUNTED SMOKE DETECTOR TO BE RELOCATED.
12. MODIFY EXISTING CEILING GRID SYSTEM
13. EXISTING EXIT SIGN TO BE REMOVED/RELOCATED

CONSTRUCTION RCP KEYNOTES

NUMBER

1. EXISTING ACOUSTIC CEILING GRID TO REMAIN, TYP.
2. EXISTING LIGHT TO REMAIN, TYP.
3. EXISTING CEILING SMOKE DETECTOR TO REMAIN, TYP.
4. NO WORK THIS AREA
5. EXISTING RETURN AIR GRILLE TO REMAIN, TYP.
6. EXISTING AIR SUPPLY TO REMAIN, TYP.
7. PATCH AND REPAIR AND INFILL EXISTING CEILING GRID SYSTEM AND TILES TO MATCH EXISTING, TYP.
8. NEW AIR SUPPLY GRILLE, SEE MECHANICAL.
9. NEW LIGHT FIXTURE, SEE ELECTRICAL.
10. NEW AIR RETURN, SEE MECHANICAL.
11. RELOCATED FIRE ALARM PER NFPA. TIE INTO EXISTING FIRE ALARM SYSTEM.
12. RELOCATED CEILING MOUNTED SMOKE DETECTOR. VERIFY REQUIREMENTS PER NFPA. TIE INTO EXISTING FIRE ALARM SYSTEM.
13. RELOCATED EXIT SIGN

RCP SYMBOL LEGEND

- EXISTING 2X4 FLUOR. FIXTURE TO BE RELOCATED OR RETURNED TO OWNER
- EXISTING AIR SUPPLY TO BE RELOCATED OR RETURNED TO OWNER
- EXISTING AIR RETURN TO BE RELOCATED OR RETURNED TO OWNER
- EXISTING EXIT SIGN TO BE RELOCATED/REMOVED
- EXISTING 2X4 FLUOR. FIXTURE TO REMAIN
- EXISTING AIR SUPPLY TO REMAIN
- EXISTING AIR RETURN TO REMAIN
- NEW OR RELOCATED 2X4 FLUOR. LIGHT FIXTURE
- NEW OR RELOCATED AIR SUPPLY
- NEW OR RELOCATED AIR RETURN
- EXISTING EXIT SIGN RELOCATION

R = REUSE/RELOCATE
N = NEW

TYPICAL WALL LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED, REFER TO THE DEMOLITION PLAN
- NEW 3-5/8" MTL STUD WALL @ 16" O.C. W/ 5/8" GYP. BD. EA. SIDE TO 6" ABOVE CEILING
- NEW 6" MTL STUD WALL @ 16" O.C. W/ 5/8" GYP. BD. EA. SIDE TO 6" ABOVE CEILING

0' 4' 8' 16' 32'

NORTH

REVISIONS		
	DATE	FOR

COLORADO LICENSED ARCHITECT Sharon L. Allen 305897

TDG Architecture
201 East Las Animas, Suite 113
Colorado Springs, CO 80903
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OFFICE OF THE SHERIFF REMODEL
27 East Vermijo Avenue
Colorado Springs, CO 80903

BASEMENT & 4TH LEVEL CONSTRUCTION RCP & DEMO RCP

Released for Permit 08/30/2024 10:04:15 AM Pikes Peak Regional Building Department bpgmgs CONSTRUCTION

PERMIT SET

DATE: 05/14/24
DRAWN BY: TDG
CHECKED BY: TDG
PROJECT NO.: 23125

SHEET:
A2.0

GENERAL FINISH NOTES:

1. MATCH EXISTING ADJACENT FINISHES, COLORS MATCH EXISTING ADJACENT FINISHES, COLORS
2. PROVIDE 2 COATS ACRYLIC PAINT WITH MATCHING FINISH PROVIDE 2 COATS ACRYLIC PAINT WITH MATCHING FINISH OVER PRIMER ON ALL DRYWALL SURFACES. (U.N.O.)
3. PROVIDE 2 COATS SEMI GLOSS ENAMEL OVER PRIMER ON PROVIDE 2 COATS SEMI GLOSS ENAMEL OVER PRIMER ON ALL HOLLOW METAL FRAMES. (U.N.O.)
4. PATCH AND REPAIR DAMAGE TO GYP. BD. FROM PATCH AND REPAIR DAMAGE TO GYP. BD. FROM DEMOLITION AND NEW CONSTRUCTION TO LIKE NEW CONDITION. REFINISH, RETEXTURE AND REPAINT AS NECESSARY.
5. ACCEPTABLE PAINT MANUF. SUBSTITUTIONS ARE ACCEPTABLE PAINT MANUF. SUBSTITUTIONS ARE SHERWIN-WILLIAMS, BENJAMIN MOORE & CO., DEVOE PAINT BRAND, KELLY MOORE PAINT CO. OTHER SUBSTITUTIONS REVIEWED UPON REQUEST.
6. ALL NEW PAINTS TO BE ZERO VOC. ALL NEW PAINTS TO BE ZERO VOC.

NOTE:
TELEPHONE AND COMPUTER INSTALLATION TO BE PROVIDED BY TENANT. CONDUIT AND POWER BY CONTRACTOR. CONTRACTOR TO COORDINATE WITH TENANT.

FINISH NOTES:

DOOR FRAMES:
PAINT NEW FRAME TO MATCH EXISTING

DOOR HARDWARE:
DOOR TO HAVE PRIVACY LOCKS. VERIFY WITH OWNER PRIOR TO ORDERING HARDWARE.

PAINT:
PATCH AND REPAIR WALLS, TEXTURE TO MATCH EXISTING.

BASE:
NEW WALL BASE TO MATCH EXISTING

FLOOR:
PATCH FLOOR UNDER DEMOLISHED WALLS, MATCH EXISTING FLOORING.

CEILING:
ALL NEW CEILING GRID AND TILES TO MATCH EXISTING. PAINT NEW GYP. CEILING TO MATCH WALL FINISH & COLOR.

WALLS:
PATCH AND REPAIR EXISTING WALLS DAMAGED BY BY DEMOLITION AND NEW CONSTRUCTION.

GENERAL:
NEW WORK TO BLEND INTO EXISTING. FINISH TO NEAREST CORNER OR BREAK IN MATERIAL TYPE. PROVIDE J-STRIP AT EDGES OF GYP. BD. AGAINST DISSIMILAR MATERIALS. CAULK FOR NEAT APPEARANCE AND TO PREVENT WATER PENETRATION.

ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLOOR FINISH	BASE	WALLS NORTH	EAST	SOUTH	WEST	CEILING	CEILING HEIGHT	COMMENTS
B01	TRAINING	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	8'-0"	NEW WALL FINISHES TO MATCH EXISTING
B01C	IT	CPT-1	-					-		NEW CARPET
410B	OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	SEE RCP	NEW WALL FINISHES TO MATCH EXISTING
411A	OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	SEE RCP	NEW WALL FINISHES TO MATCH EXISTING
411B	WELLNESS	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	SEE RCP	NEW WALL FINISHES TO MATCH EXISTING
416	911 DISPATCH	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	8'-4 1/2"	NEW WALL FINISHES TO MATCH EXISTING

FINISH NOTES

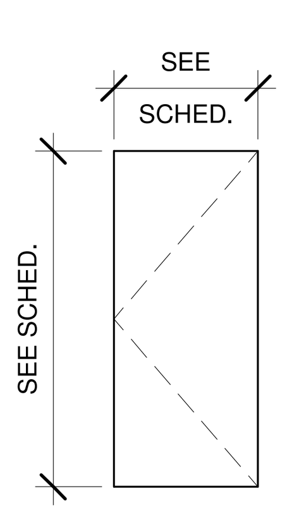
1. MATCH EXISTING GYP. BD. TEXTURE IN EXISTING ROOMS
2. TOUCH UP PAINT TO MATCH EXISTING FROM DEMOLITION AND NEW CONSTRUCTION.
3. REPAIR, REPLACE RUBBER BASE FROM CONSTRUCTION. MATCH EXISTING
4. NEW CONTINUOUS ROLL TYPE RUBBER BASE AT NEW WALL. MATCH EXISTING.
5. EXISTING DOOR FRAMES TO RECEIVE NEW PAINT. MATCH EXISTING

DOOR & FRAME SCHEDULE

NUMBER	WIDTH	HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HEAD DETAIL	JAMB DETAIL	FIRE RATING	1 1/2 PR BB HINGES	STOREROOM LOCKSET	CLASSROOM LOCKSET	PRIVACY LOCKSET	PANIC HARDWARE	ACOUSTIC SEAL	THRESHOLD (1/2" MAX)	WALL STOP	FLOOR STOP	CLOSER	SIGN	DOOR RELEASE	ELECTRIC STRIKE	CARD READER	VISION PANEL IN DOOR	COMMENTS
410A	3'-0"	6'-10"	A	S.C.WD.	STAIN TO MATCH EXISTING	1	H.M.	PAINT TO MATCH EXISTING	-	-	-	X		X			X		X		X					X	NEW DOOR AND FRAME MATCH EXISTING DOORS IN ADJACENT OFFICES
410B	3'-0"	6'-10"	A	S.C.WD.	STAIN TO MATCH EXISTING	1	H.M.	PAINT TO MATCH EXISTING	-	-	-	X		X			X		X		X					X	NEW DOOR AND FRAME MATCH EXISTING DOORS IN ADJACENT OFFICES

DOOR, FRAME, & GLASS GENERAL NOTES

1. VERIFY ALL HARDWARE FUNCTIONS WITH TENANT AND ARCHITECT PRIOR TO PURCHASING.
2. ALL DOORS TO BE RE-KEYED.
3. ALL DOOR HARDWARE TO INCLUDE SILENCERS AT FRAMES.
4. ALL HARDWARE TO BE LEVER HANDLED.
5. VERIFY ALL FINISHES FOR DOORS, FRAMES, HARDWARE, ETC. WITH BUILDING OWNER.
6. HARDWARE PER BUILDING STANDARDS AND MATCH EXISTING.
7. SUBMIT HARDWARE SHOP DRAWINGS FOR REVIEW AND APPROVAL TO ARCHITECT AND OWNER PRIOR TO INSTALLATION.

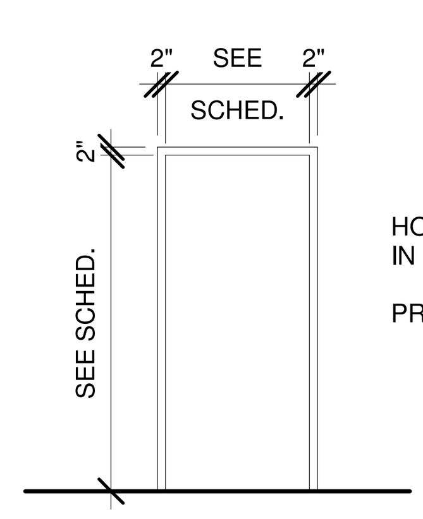


A

SOLID CORE WOOD DOOR, STAIN TO MATCH EXISTING, VERIFY DIMENSIONS IN FIELD TO MATCH DOORS IN ADJACENT OFFICES

DOOR TYPES

SCALE: 1/4" = 1'-0"



1

HOLLOW METAL FRAME. PAINT TO MATCH EXISTING, VERIFY DIMENSIONS IN FIELD TO MATCH FRAMES IN ADJACENT OFFICES

PROVIDE WELDED MITRED CORNERS, TYP.

DOOR FRAME ELEVATIONS

SCALE: 1/4" = 1'-0"

REVISIONS

	DATE	FOR

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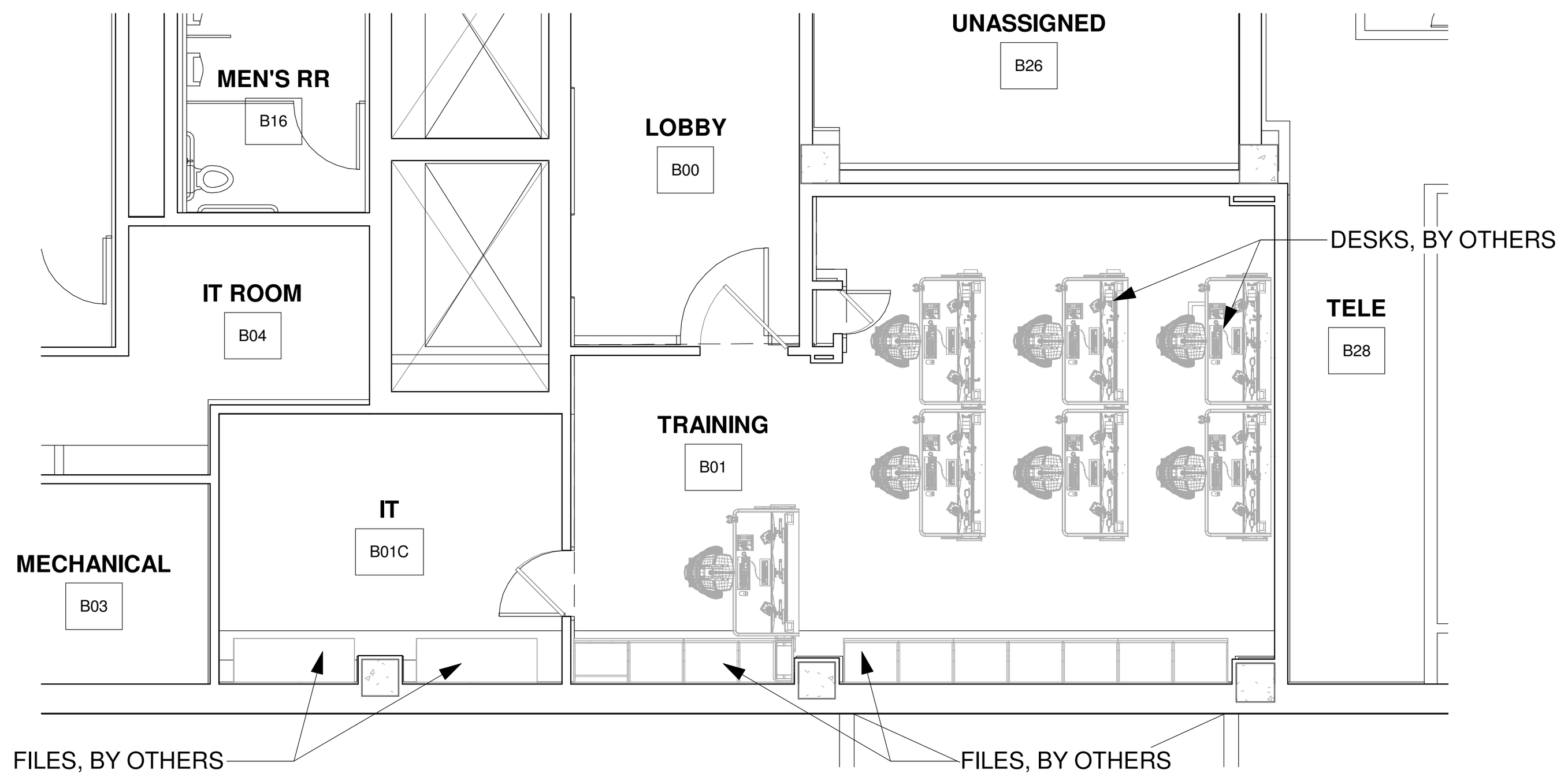
719.623.5641 (Phone)
719.623.5643 (Fax)

OFFICE OF THE SHERIFF REMODEL
27 East Vermijo Avenue
Colorado Springs, CO 80903

DOOR AND ROOM SCHEDULES

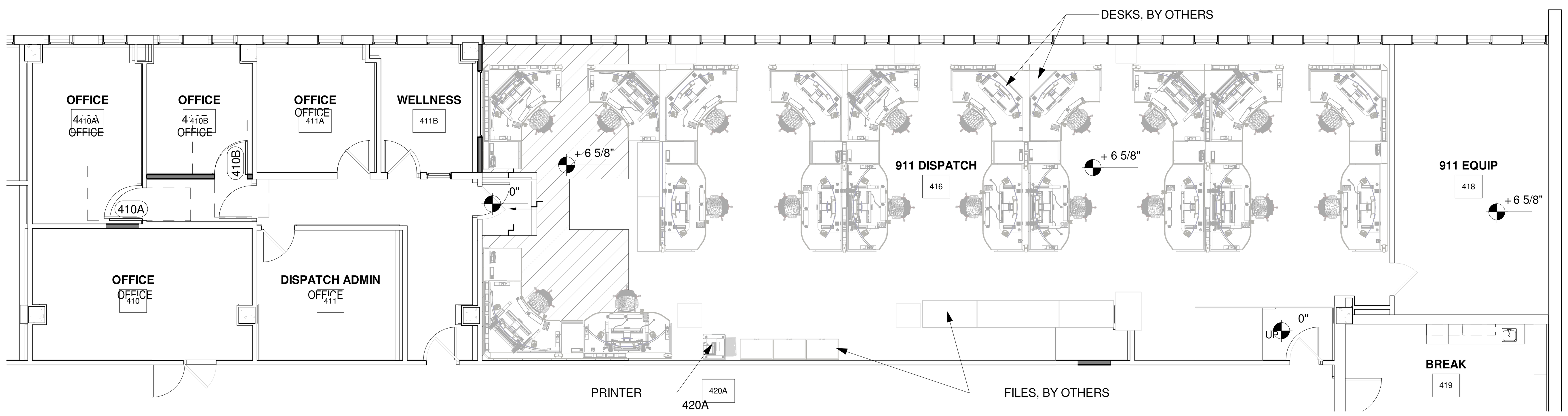
PERMIT SET

DATE: 05/14/24
DRAWN BY: TDG
CHECKED BY: TDG
PROJECT NO.: 23125
SHEET:
A3.0



1 FURNITURE REFERENCE PLAN - BASEMENT

1/8" = 1'-0"



2 FURNITURE REFERENCE PLAN - FOURTH FLOOR

1/8" = 1'-0"

REVISIONS	
DATE	FOR

COLORADO LICENSED ARCHITECT Sharon L. Allen 305897

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OFFICE OF THE SHERIFF REMODEL

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Colorado Springs, CO 80903

FURNITURE REFERENCE PLANS

Released for Permit 08/30/2024 AM CONSTRUCTION

PERMIT SET

DATE: 05/14/24

DRAWN BY: TDG

CHECKED BY: TDG

PROJECT NO.: 23125

SHEET: A3.1

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY DIMENSIONS IN FIELD PRIOR TO PROCEEDING WITH ANY WORK.
2. THESE DOCUMENTS HAVE BEEN PRODUCED TO THE BEST OF THE ENGINEER'S ABILITY FROM AVAILABLE EXISTING INFORMATION AND/OR SURVEY OF FIELD CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTING FIELD CONDITIONS PRIOR TO BID AND PROVIDE A WRITTEN SUBMITTAL TO ENGINEER IDENTIFYING ANY DISCREPANCIES OR VARIANCES FOUND. THE SUBMITTAL MUST ALSO INCLUDE ANY COSTS REQUIRED FOR THE CONTRACTOR'S WORK TO MEET EXISTING CONDITIONS.
3. ALL WORK SHALL BE PERFORMED WITH QUALITY WORKMANSHIP, TO THE APPROVAL AND SATISFACTION OF THE ENGINEER.
4. ALL WORK, MATERIAL AND INSTALLATION SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE AND NATIONAL CODES AND ORDINANCES.
5. **CONTRACTOR TO VERIFY ANY CHANGES TO THIS SCOPE OF WORK WITH ENGINEER PRIOR TO ROUGH-IN OR INSTALLATION.**

POST CONSTRUCTION PHASE GENERAL NOTES

CONTRACTOR SHALL PROVIDE RECORD DRAWINGS TO ENGINEER. DRAWINGS SHALL INCLUDE ALL ADDENDUM ITEMS, ACCEPTED REQUESTS FOR INFORMATION (RFI'S), CHANGE ORDERS, ALTERATIONS, REROUTING, FIELD SKETCHES, MARK-UPS, ETC.

SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER.

CONTRACTOR'S FAILURE TO ORDER OR PROVIDE FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS OR EQUIPMENT.

SYSTEMS AND THEIR COMPONENTS SHALL BE COMPLETE, OPERABLE AND READY FOR CONTINUOUS OPERATION.

SCOPE

THE SCOPE OF WORK COVERED HEREIN CONSISTS OF FURNISHING ALL LABOR, MATERIALS, NECESSARY EQUIPMENT, AND SERVICES TO COMPLETE THE DESIGN AND RELATED WORK IN FULL ACCORDANCE WITH THESE DRAWINGS, AS SPECIFIED HEREIN, OR BOTH, AND IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT.

CODES, RULES, PERMITS, AND FEES

THE CONTRACTOR (MECHANICAL, ELECTRICAL AND PLUMBING) IS GENERALLY RESPONSIBLE TO ENSURE ALL WORK, BOTH OLD AND NEW, COMPLIES WITH THE APPLICABLE CODE (SPECIFIED BY THE JURISDICTION IN WHICH THE WORK IS BEING COMPLETED) AS WELL AS ANY APPLICABLE LOCAL CODES, STATE CODES, ADDENDUMS, AND ORDINANCES.

SHOP DRAWINGS

SHOP DRAWINGS FOR MATERIALS OR PRODUCTS SPECIFIED HEREIN AND/OR INDICATED ON DRAWINGS BY TRADE NAME, MANUFACTURER'S NAME OR CATALOG NUMBER SHALL BE PROVIDED AS SPECIFIED.

SUBSTITUTIONS FOR EQUIPMENT SPECIFIED IN THIS SCOPE OF WORK MUST BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK.

COOPERATION WITH OTHER TRADES

THE SUBCONTRACTOR SHALL GIVE FULL COOPERATION TO OTHER TRADES AND SHALL FURNISH, IN WRITING, TO THE CONTRACTOR, WITH COPIES TO THE ENGINEER (OR ARCHITECT), ANY INFORMATION NECESSARY TO PERMIT THE WORK OF ALL TRADES TO BE INSTALLED SATISFACTORILY AND WITH THE LEAST POSSIBLE INTERFERENCE OR DELAY. COORDINATE ALL INFORMATION ON EQUIPMENT FURNISHED BY OTHERS BEFORE BEGINNING INSTALLATION.

CUTTING, PATCHING AND FINISHING

UNLESS NOTED OTHERWISE THE CONTRACTOR SHALL DO ALL CUTTING, DRILLING, ETC. REQUIRED FOR WORK UNDER THIS SECTION OF THE SPECIFICATION, INSIDE THE BUILDING.

MATERIAL AND WORKMANSHIP

ALL MATERIALS AND APPARATUS REQUIRED FOR THE WORK SHALL BE NEW UNLESS INDICATED OTHERWISE IN THE PLANS.

RECORD DRAWINGS

THE CONTRACTOR SHALL KEEP ACCURATE RECORDS OF CHANGES OR ALTERATIONS DURING THE ACTUAL CONSTRUCTION PROCESS IF DIFFERENT FROM THE PLANS.

THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A REPRODUCIBLE SET OF PLANS FOR EACH DISCIPLINE OF THE COMPLETE INSTALLATION ALONG WITH FIRE ALARM SYSTEM, AS INSTALLED. THE SCALE ON THESE DRAWINGS SHALL BE NO SMALLER THAN THE SCALE USED ON THE ORIGINAL PLANS.

TESTING

FINAL TESTS SHALL BE MADE ONLY AFTER THE ENGINEER IS SATISFIED THAT ALL WORK HAS BEEN COMPLETED.

FINAL ACCEPTANCE

AFTER TESTING, A FINAL INSPECTION SHALL BE MADE BY THE ENGINEER AND OTHER AUTHORIZED PERSONS WITH THE CONTRACTOR.

FINAL ACCEPTANCE OF THE PROJECT SHALL NOT SUPERSEDE THE OWNER'S RIGHT TO REQUIRE REPLACEMENT AND/OR REPAIR ANY DEFECTIVE WORK OR MATERIALS.

MECHANICAL GENERAL NOTES

1. UNLESS NOTED OTHERWISE, BRANCH DUCTS TO INDIVIDUAL REGISTERS, DIFFUSERS AND GRILLES SHALL BE SAME SIZE AS NECK INLET.
2. PROVIDE EQUIPMENT SCHEDULED OR INDICATED ON THE DRAWINGS BUT NOT INCLUDED WITHIN THE SPECIFICATIONS. INSTALLATION SHALL CONFORM TO MANUFACTURERS REQUIREMENTS AND APPLICABLE CODES. SUBMITTALS SHALL BE PROVIDED PER VENDOR SCHEDULE SUBMITTAL.
3. ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT SHALL BE VERIFIED WITH ELECTRICAL DRAWINGS PRIOR TO EQUIPMENT ORDER RELEASE. ADDITIONAL ELECTRICAL WORK RESULTING FROM EQUIPMENT SUBSTITUTION IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
4. LENGTH OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO 5'-0" MAXIMUM AND HORIZONTAL RUN WITH ONLY ONE 90 DEGREE ELBOW IS PERMITTED. SECURE FLEXIBLE DUCTWORK WITH SCREWS AND DRAWBANDS TO DIFFUSER. SUPPORT DUCT PER CODE TO PREVENT SAGGING.
5. DUCT SIZES INDICATED ARE NET INSIDE CLEAR DIMENSIONS.
6. PROVIDE 18" X 18" MINIMUM ACCESS DOOR IN INACCESSIBLE CEILINGS AND WALLS FOR EQUIPMENT REQUIRING ACCESS OR ADJUSTMENT. COORDINATE LOCATIONS AND SUBMIT TO ENGINEER OR ARCHITECT FOR APPROVAL PRIOR TO BEGINNING WORK. ACCESS DOORS LARGER THAN MINIMUM SHALL BE SIZED APPROPRIATELY TO ACCESS AND MAINTAIN EQUIPMENT. AT A MINIMUM PROVIDE CEILING OPERATORS FOR INACCESSIBLE M.V.D.'S WHERE INDICATED, EQUAL TO YOUNG REGULATOR, REMOTE GEAR OPERATED WITH CEILING ESCUTCHEON. ALL ACCESS PANELS/DOORS SHALL BE SUBMITTED TO ENGINEERING FOR APPROVAL PRIOR TO PROCUREMENT OF EQUIPMENT.
7. ITEM DESIGNATIONS INDICATED HEREON ARE FOR PURPOSES OF THESE DOCUMENTS ONLY. CONTRACTOR SHALL VERIFY WITH OWNERS REPRESENTATIVE ACTUAL "TAGGING" INFORMATION TO BE PROVIDED FOR EACH ITEM OF MECHANICAL EQUIPMENT PRIOR TO NAMEPLATE ORDER RELEASE. NAMEPLATES SHALL BE 4" X 3" BLUE PLASTIC WITH WHITE ENGRAVING AND WILL CALL OUT NAME OF EQUIPMENT AND ELECTRICAL PANEL FED FROM WITH VOLTAGE AND PHASE (COORDINATE WITH ELECTRICAL CONTRACTOR AND ELECTRICAL DRAWINGS).
8. CEILING DIFFUSERS SHALL BE 36" MINIMUM FROM CEILING MOUNTED SMOKE DETECTORS. COORDINATE WITH ELECTRICAL DIVISION FOR LIGHT, SMOKE DETECTORS AND OTHER EQUIPMENT MOUNTED ON THE CEILINGS. IT'S THE RESPONSIBILITY OF THE CONTRACTOR TO AVOID ANY CEILING EQUIPMENT LOCATION INTERFERENCES.
9. SECURE DIFFUSERS AND GRILLES TO T-BAR CEILINGS USING ACT CLIPS (WHERE APPLICABLE). SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO BEGINNING WORK.
10. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ACTUAL LOCATIONS OF GRILLES AND DIFFUSERS IN CEILING, AS WELL AS ACCESS DOORS.
11. COORDINATE EQUIPMENT DIMENSIONS AND LAYOUT WITH PLUMBING DRAWINGS WHERE FLOOR SINKS ARE INDICATED.
12. PIPES PASSING THROUGH FIRE RATED WALLS AND FLOORS SHALL BE SEALED WITH U.L. LISTED MATERIAL EQUAL TO 3M FIRE BARRIER, CAULK OR PUTTY. SEALANT'S RATING SHALL MATCH THE RATING OF THE ASSEMBLY. ANY SUBSTITUTE SHALL BE SUBMITTED FOR APPROVAL TO ENGINEERING PRIOR TO INSTALLATION.
13. PROVIDE VALVE TAGS AND PIPE IDENTIFICATION BANDS. TAGS SHALL BE BRASS WITH CHAIN. IDENTIFICATION BANDS SHALL BE LOCATED EVERY 25' AND ON EITHER SIDE OF ANY INTERMEDIATE BARRIER (WALL) ALONG THE PIPE ROUTE.
14. TURNING VANE RUNNERS SHALL HAVE A VANE IN EVERY SLOT IN STRICT CONFORMANCE WITH MANUFACTURERS INSTRUCTIONS AND S.M.A.C.N.A. DUCT CONSTRUCTION STANDARDS.
15. VERIFY FIT OF DUCTWORK AND PIPING PRIOR TO FABRICATION.
16. INSULATED PIPING EXPOSED TO VIEW (THROUGHOUT THE FACILITY), SHALL BE COVERED FINISHED WITH PVC JACKET EQUAL TO MANVILLE PVC AND/OR PERMA-WELD PIPE JACKETING SYSTEM USING 30 MIL THICK JACKETS. FITTINGS, FLANGES, VALVES AND ACCESSORIES SHALL BE JACKETED. INSTALL PER MANUFACTURERS INSTRUCTIONS WITH SEAM ON TOP OF PIPE SO AS NOT TO BE VISIBLE FROM OCCUPIED SPACE.
17. DUCTWORK LOCATED BELOW 7'-6" IN MECHANICAL ROOMS SHALL BE EQUIPPED WITH PADDING MATERIAL ON ALL CORNERS, EDGES AND OTHER SURFACES WHICH MAYBE HAZARDOUS.
18. COORDINATE AND VERIFY ACTUAL APPROVED EQUIPMENT DIMENSIONS PRIOR TO POURING EQUIPMENT PADS.
19. ALL DUCT MOUNTED SMOKE DETECTORS SHALL BE ZERO VELOCITY TYPE UNLESS OTHERWISE INDICATED ON DRAWINGS.
20. CONDENSATE DRAIN PIPING FROM ALL EQUIPMENT SHALL BE INSTALLED SO AS NOT CREATE A TRIPPING HAZARD. COORDINATE DRAIN CONNECTIONS WITH PLUMBING DRAWINGS. CONDENSATE DRAIN TRAPS SHALL BE 3" DEEP, MINIMUM.
21. COORDINATE ALL CHASE, SLEEVE AND SLAB BLOCKOUT REQUIREMENTS BEFORE CONCRETE IS POURED OR BLOCK IS SET.
22. PROVIDE ACCESS DOOR IN DUCTWORK UPSTREAM OF EACH REHEAT COIL. ACCESS DOOR TO BE EQUAL TO DUCTMATE M.E.T.U. ROUND DUCT ACCESS DOOR.
23. DUCTWORK VISIBLE BEHIND DIFFUSERS, REGISTERS, OR GRILLES SHALL BE PAINTED FLAT BLACK.
24. REFER TO EQUIPMENT DRAWINGS, SPECIFICATIONS AND SHOP DRAWINGS FOR CONNECTIONS TO EQUIPMENT.
25. MANUAL VOLUME DAMPERS AND VALVES ON INSULATED DUCTWORK AND PIPING SHALL HAVE EXTENDED SYSTEMS TO ALLOW FOR THE INSULATION THICKNESS. PROVIDE MINIMUM 12" LONG RED RIBBON QUADRANT LOCATOR ON VOLUME DAMPER HANDLES.
26. PERMANENT HVAC EQUIPMENT SHALL BE SEALED OFF, KEPT FREE FROM DEBRIS, AND SHALL REMAIN UNOPERATIONAL DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY HEAT AS REQUIRED.
27. PROVIDE ONE (1) COPY OF THE TEST AND BALANCE REPORT TO THE ENGINEER AND THE MECHANICAL INSPECTOR AT THE TIME OF INSPECTION.
28. NEW WORK, ALTERATIONS OR ADDITIONS TO MECHANICAL SYSTEMS ARE SUBJECT TO FIELD INSPECTION.
29. HVAC SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH IMC CHAPTER 3 AND LOCAL BUILDING REQUIREMENTS, CODES AND AMENDMENTS.
30. DUCT CONSTRUCTION AND INSTALLATION SHALL CONFORM TO IMC SECTION 603AND SMACNA REQUIRED INSULATION REQUIREMENTS AND SHALL CONFORM TO IECC SECTION C403.2.9.
31. FACTORY-MADE FLEXIBLE AIR DUCT INSTALLATION SHALL CONFORM TO IMC SECTION 603.6.
32. INDOOR PIPE GAS REGULATOR SHALL VENT UP THROUGH ROOF OR OUT THROUGH WALL. IF GAS REGULATORS ARE NOT VENTED, CONTRACTOR SHALL USE VENTLESS REGULATORS.
33. MOTORS 3/4 HP AND LARGER SHALL BE PREMIUM EFFICIENCY.
34. MECHANICAL CONTROL PANELS TO BE RATED AT 5,000 SCR.

CODES

WHERE APPLICABLE, THE GUIDANCE SET FORTH IN THE 2015 IECC CODE SHALL GOVERN THE SCOPE OF WORK UNDER THIS CONTRACT. THE CODE SECTIONS RELATING TO THE MECHANICAL SCOPE OF WORK INCLUDE, BUT ARE NOT LIMITED TO:

SECTION 302 - DESIGN CONDITIONS

SECTION 303 - MATERIALS, SYSTEMS AND EQUIPMENT
- SECTION 303.3 - MAINTENANCE INFORMATION

SECTION 402 - BUILDING ENVELOPE REQUIREMENTS
- SECTION 402.1 - GENERAL
- SECTION 402.2 - SPECIFIC BUILDING THERMAL ENVELOPE INSULATION REQUIREMENTS
- SECTION 402.3 - ROOF SOLAR REFLECTANCE AND THERMAL EMITTANCE
- SECTION 402.4 - FENESTRATION
- SECTION 402.5 - AIR LEAKAGE - THERMAL ENVELOPE

SECTION 403 - BUILDING MECHANICAL SYSTEMS

SECTION 406 - ADDITIONAL EFFICIENCY PACKAGE OPTIONS
- SECTION 406.1 - REQUIREMENTS
- SECTION 406.2 - MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE
- SECTION 406.5 - ON-SITE RENEWABLE ENERGY
- SECTION 406.6 - DEDICATED OUTDOOR AIR SYSTEM

SECTION 407 - TOTAL BUILDING PERFORMANCE

SECTION 408 - SYSTEM COMMISSIONING
- SECTION 408.1 - GENERAL
- SECTION 408.2 - MECHANICAL SYSTEMS AND SERVICE WATER-HEATING SYSTEMS COMMISSIONING AND COMPLETION REQUIREMENTS

SECTION 501 - GENERAL

SECTION 502 - ADDITIONS

SECTION 503 - ALTERATIONS
- SECTION 503.1 - GENERAL
- SECTION 503.2 - CHANGE IN SPACE CONDITIONING
- SECTION 503.3 - BUILDING ENVELOPE
- SECTION 503.4 - HEATING AND COOLING SYSTEMS

SECTION 504 - REPAIRS
- SECTION 504.1 - GENERAL
- SECTION 504.2 - APPLICATION

SECTION 505 - CHANGE OF OCCUPANCY OR USE

LEGEND AND SYMBOLS

HVAC SYSTEM

- SUPPLY DIFFUSER
- RETURN GRILLE
- EXHAUST GRILLE
- GRILLE, REGISTER (FLOOR, DUCT)
- TRANSFER GRILLE
- GOOSENECK
- MANUAL VOLUME DAMPER (MVD) WITH LOCKING QUADRANT
- MOTORIZED DAMPER (M)
- FIRE DAMPER (F)
- FIRE-SMOKE DAMPER (FS)
- SMOKE DAMPER (S)
- BACKDRAFT DAMPER (BDD)
- THERMOSTAT (T)
- SUPPLY DUCT
- RETURN DUCT
- EXHAUST DUCT
- FLEX DUCT
- RECTANGULAR TAKE-OFF (BEVELED, PLAIN)
- ROUND TAKE-OFF (PLAIN, CONICAL)

AIR TERMINAL TAG:

- NECK SIZE
- AIR TERMINAL DESIGNATION
- X"Ø XX-# / XX CFM (#) — TYPICAL OF
- AIR VOLUME

GAS SYSTEM

- GAS METER
- GAS COCK
- GAS SHUT-OFF VALVE
- PRESSURE REDUCING VALVE
- —G— LOW PRESSURE GAS
- —MPG— MEDIUM PRESSURE GAS
- —HPG— HIGH PRESSURE GAS
- —LPG— LIQUEFIED PETROLEUM GAS

GAS PIPING LABEL:

- X" G — PIPE SIZE
- XXX MBH — PIPE GAS LOAD
- XXX' TDL — TOTAL DESIGN LENGTH

TRANSITIONS

- PIPE CAP
- PIPE TRANSITION UP
- PIPE TRANSITION DOWN
- PIPE TAP/TEE DOWN

PROCESS PIPING

- —CHS— CHILLED WATER SUPPLY
- ---CHR--- CHILLED WATER RETURN
- —CWS— CONDENSING WATER SUPPLY
- ---CWR--- CONDENSING WATER RETURN
- —HWS— HEATING WATER SUPPLY
- ---HWR--- HEATING WATER RETURN
- ----D---- CONDENSATE DRAIN
- ----R---- REFRIGERATION LINE

PROCESS FLOW DIAGRAM

- AIR SEPARATOR
- BACKFLOW PREVENTOR
- PRESSURE GAUGE
- TEMPERATURE GAUGE
- UNION
- FLEXIBLE PIPE CONNECTOR
- PUMP
- ISOLATION VALVE
- GATE VALVE
- PRESSURE REGULATING VALVE
- CHECK VALVE
- TEMP. & PRESSURE RELIEF VALVE
- GLOBE VALVE
- MIXING VALVE
- THREE-WAY VALVE
- STRAINER

GENERAL

- KEY NOTE
- FEEDER TAG
- GENERAL EQUIPMENT TAG
- M/E/P EQUIPMENT TAG
- POINT OF CONNECTION
- NOT IN CONTRACT
- DEMOLITION

ABBREVIATIONS

GENERAL

AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AG	ABOVE GRADE
DN	DOWN
EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTURER
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
POC	POINT OF CONNECTION
QTY	QUANTITY
TCC	TEMPERATURE CONTROL CONTRACTOR
W/	WITH
W/O	WITHOUT
WO	WALL OPENING (ABOVE CEILING)

SCOPE

(E)	EXISTING
(N)	NEW
(R)	RELOCATED
(V)	VENDOR

MECHANICAL

AV / MV	AUTOMATIC/MANUAL AIR VENT
BTUH	BRITISH THERMAL UNIT PER HOUR
CA	COMBUSTION AIR
CFM	CUBIC FEET PER MINUTE
DRN	DRAIN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
OA	OUTSIDE AIR
RA	RETURN AIR
RB	REBALANCE
SA	SUPPLY AIR
TDL	TOTAL DESIGN LENGTH
TOD	TOP OF DUCT (AFF)
UC	UNDER-CUT

SHEET NOMENCLATURE

X - X - # # # . X

LEVEL 1 DESIGNATION
- M MECHANICAL
- E ELECTRICAL
- P PLUMBING
- MD MECH. DEMOLITION
- ED ELEC. DEMOLITION
- PD PLUM. DEMOLITION

LEVEL 2 DESIGNATION *
* MAY NOT APPLY FOR COMBINED SHEETS
- H HVAC
- G GAS
- D PROCESS
- P POWER
- L LIGHTING
- W WATER
- S SANITARY (WASTE)

SHEET TYPE DESIGNATION
- 0 GENERAL
- 1 PLANS
- 2 ELEVATIONS
- 3 SECTIONS
- 4 LARGE SCALE PLANS
- 5 DETAILS
- 6 SCHEDULES & CALCULATIONS
- 7 DIAGRAMS
- 8 < NOT USED >
- 9 ISOMETRICS

SHEET NUMBER
01 - 99

SUPPLEMENTAL
- 1 - 9 FLOORS
- B BASEMENT
- M MEZZANINE
- R ROOF

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EL PASO COUNTY

EL PASO COUNTY SHERIFF'S OFFICE BUILDING
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27 E. VERMIJO
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LEGEND, NOTES AND SPECIFICATIONS

DATE: 01/27/24
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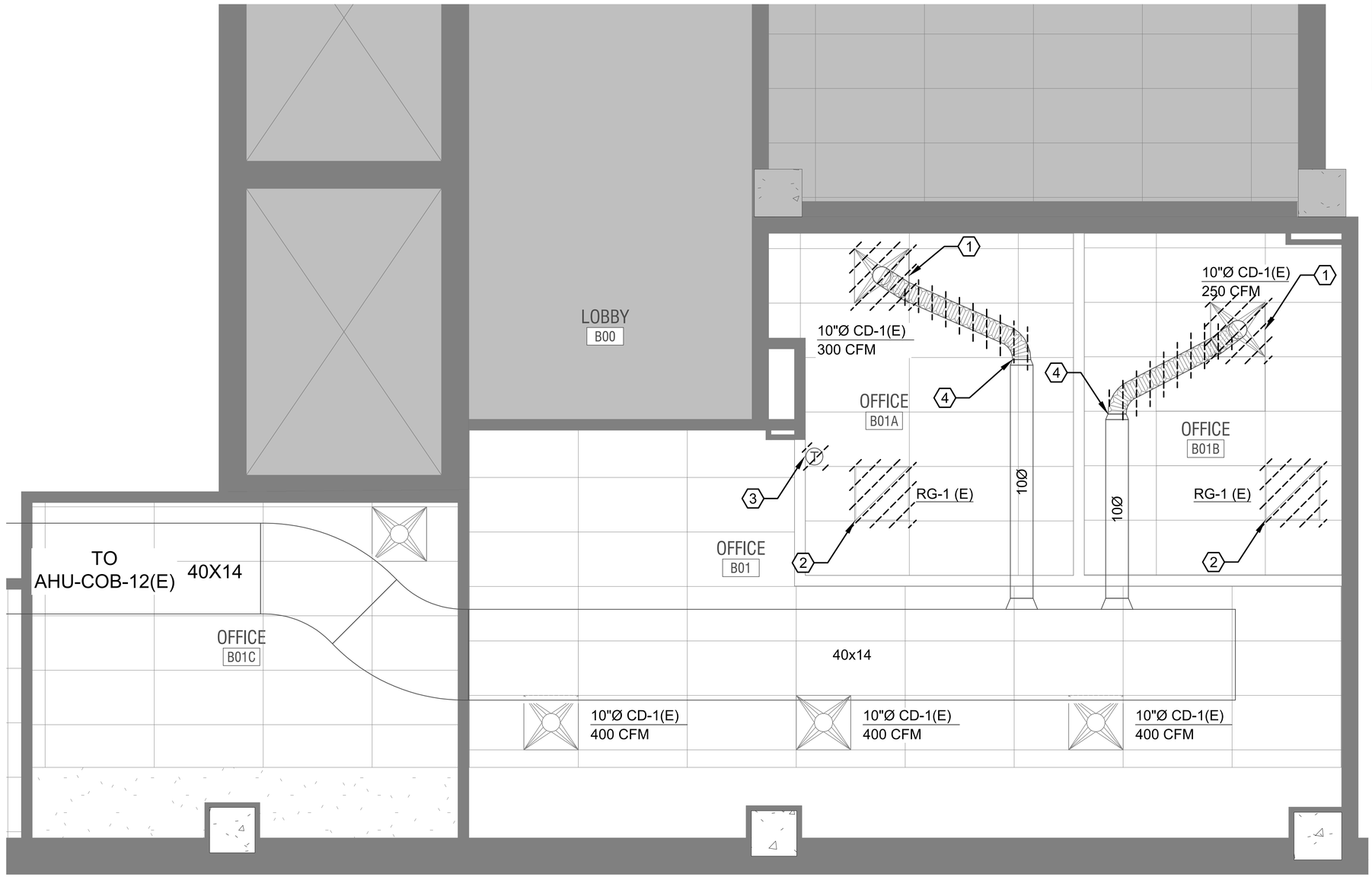
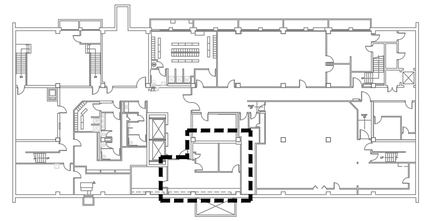
PROJECT NO: 2023-5136-01
SHEET NO:
M-001

PLOT DATE: 05/31/24 3:17 PM BY: AARON SPRINGFIELD PROJ. FILE: P:\Trammel Design Group\2023-5136-01 - OTS Basement & 1st fl\Mechanical\OTS BMNT 4TH FL REMODEL -- Mechanical.dwg





KEY MAP

GENERAL NOTES:

EXISTING CONDITIONS HAVE BEEN COMPLETED TO THE BEST OF THE ENGINEER'S ABILITY. SHOULD EXISTING CONDITIONS DIFFER FROM LAYOUT SHOWN, CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ENGINEER TO ADDRESS ANY DISCREPANCIES.

DEMOLITION KEY NOTES:

1. REMOVE AND RELOCATE EXISTING CEILING DIFFUSER PER NEW RCP LAYOUT. SEE SHEET M-H-101.B FOR NEW DIFFUSER LOCATIONS.
2. REMOVE AND RELOCATE EXISTING RETURN GRILLE NEW RCP LAYOUT. SEE SHEET M-H-101.B FOR NEW GRILLE LOCATIONS.
3. RELOCATE EXISTING THERMOSTAT TO ACCOMMODATE NEW OFFICE LAYOUT. FOR NEW THERMOSTAT LOCATION SEE SHEET M-H-101.B.
4. REMOVE AND DEMOLISH DUCTWORK BACK TO APPROXIMATE LOCATION PER NEW RCP LAYOUT. FOR NEW CONNECTION SEE SHEET M-H-101.B.

HVAC BASEMENT DEMOLITION PLAN

SCALE: 1/2" = 1'-0"

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HVAC BASEMENT DEMOLITION PLAN

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PROJECT NO: 2023-5136-01
SHEET NO:

MD-H-101.B

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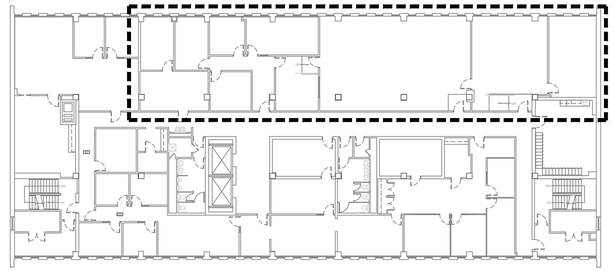

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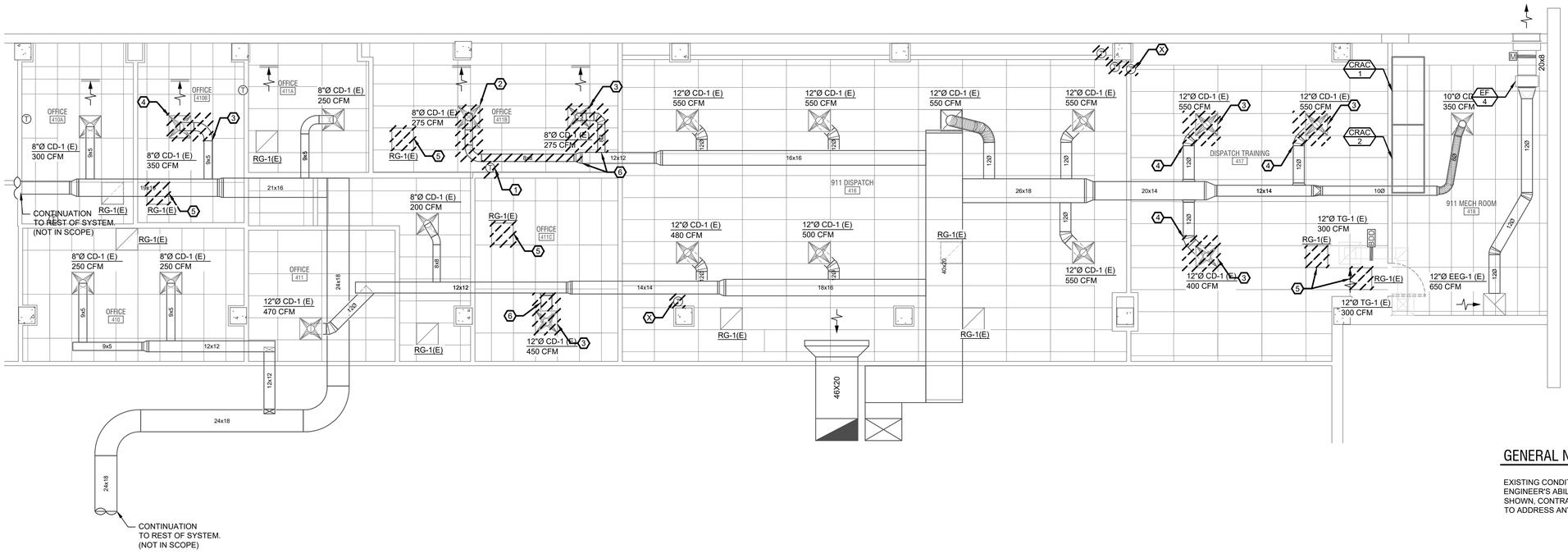

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DEMOLITION KEY NOTES:

1. RELOCATE EXISTING THERMOSTAT TO ACCOMMODATE NEW OFFICE LAYOUT. FOR NEW THERMOSTAT LOCATION SEE SHEET M-H-104.
2. REMOVE EXISTING CEILING MOUNTED SUPPLY DIFFUSER, AND DUCTWORK BACK TO MAIN TRUNK.
3. REMOVE AND RELOCATE EXISTING CEILING DIFFUSER PER NEW RCP LAYOUT. SEE SHEET M-H-104 FOR NEW DIFFUSER LOCATIONS.
4. REMOVE AND DEMOLISH DUCTWORK BACK TO APPROXIMATE LOCATION PER NEW RCP LAYOUT. FOR NEW CONNECTION SEE SHEET M-H-104.
5. REMOVE AND RELOCATE EXISTING RETURN GRILLE NEW RCP LAYOUT. SEE SHEET M-H-104 FOR NEW GRILLE LOCATIONS.
6. REMOVE EXISTING DUCTWORK BACK TO MAIN TRUNK.

HVAC 4TH FL DEMOLITION PLAN
SCALE: 3/16" = 1'-0"

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HVAC 4TH FL DEMOLITION PLAN

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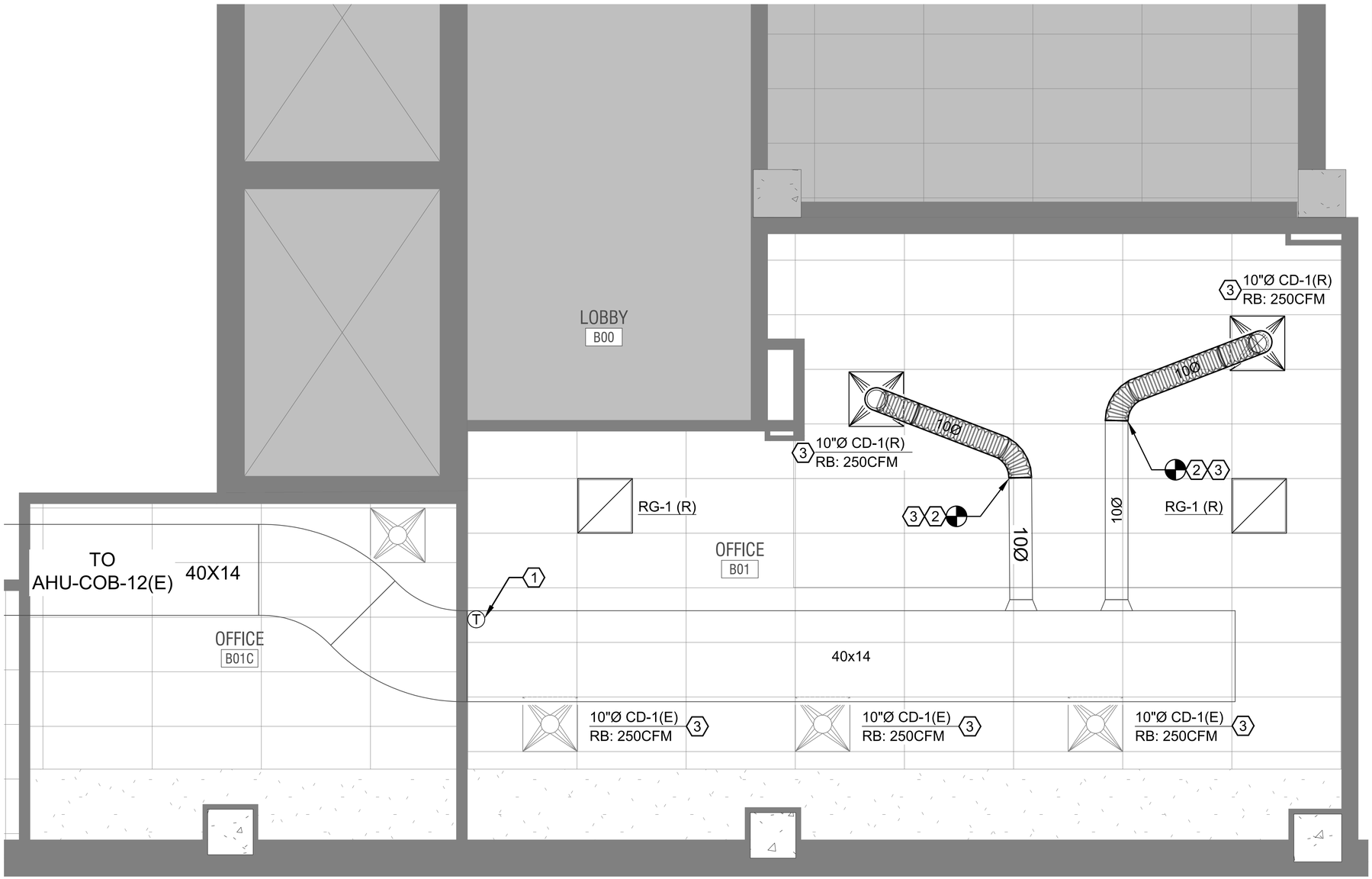
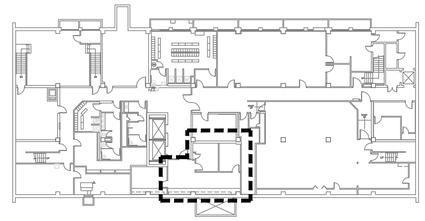


HVAC BASEMENT NEW WORK PLAN

SCALE: 1/2" = 1'-0"



KEY MAP

GENERAL NOTES:

ALL PIPING PENETRATIONS THROUGH RATED ASSEMBLIES ARE TO BE SEALED AND PROTECTED BY FIRE RESISTANT CAULKING.

ANY NEW SUPPLY, EXHAUST AND/OR RETURN GRILLES ARE TO MATCH THE EXISTING AS MUCH AS POSSIBLE. COORDINATE WITH EXISTING PLANS, OWNER AND/OR ARCHITECT PRIOR TO PROCUREMENT FOR COLOR MATCH. SUBMIT AND COORDINATE WITH ENGINEER ON PERFORMANCE.

NEW WORK KEY NOTES:

1. CONTRACTOR TO RELOCATE THERMOSTAT PER NEW OFFICE LAYOUT.
2. CONTRACTOR TO ADD NEW 10"Ø DUCT FOR RELOCATED CEILING DIFFUSER TO CONNECT TO NEW 10"Ø FLEX DUCT. LENGTH OF FLEX DUCT SHALL NOT BE MORE THAN 5' IN LENGTH.
3. REBALANCE WITH MANUAL DAMPER TO CFM INDICATED.

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HVAC BASEMENT
NEW WORK PLAN

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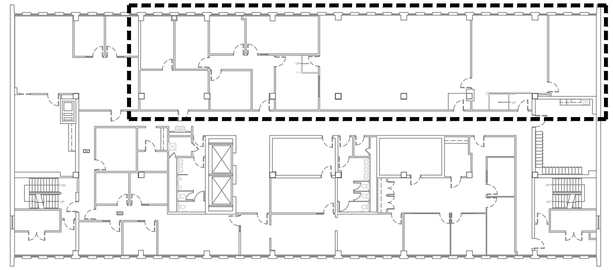
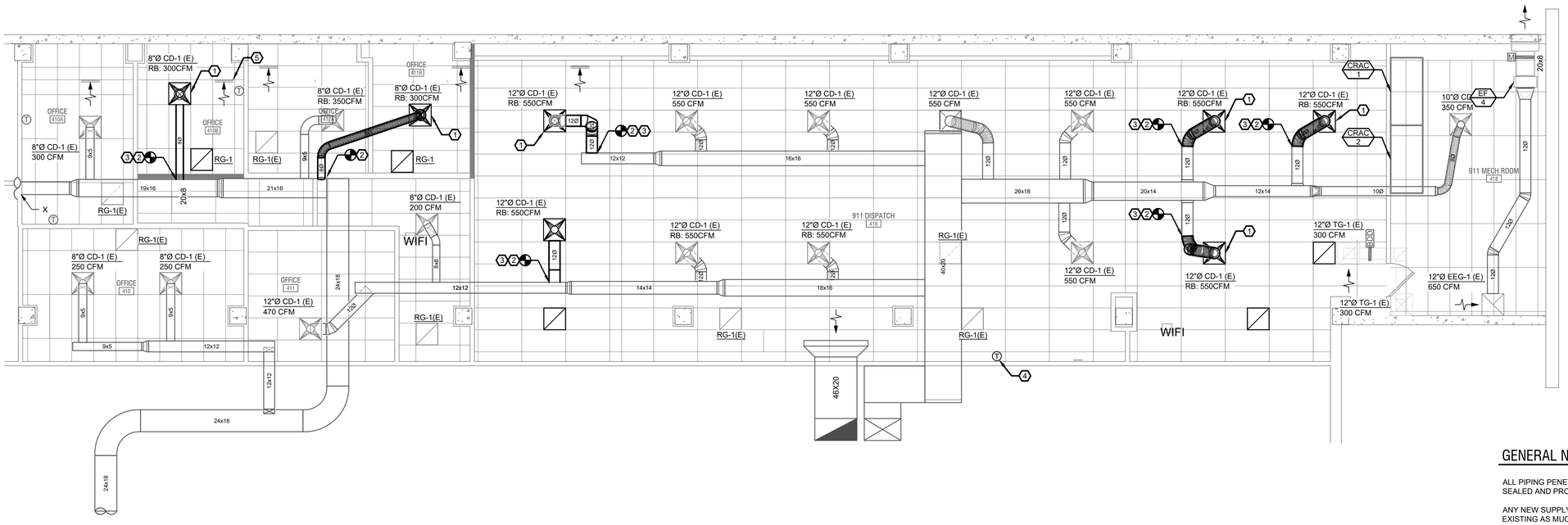


KEY MAP



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3. REBALANCE WITH MANUAL DAMPER TO CFM INDICATED.
4. CONTRACTOR TO RELOCATE THERMOSTAT PER NEW OFFICE LAYOUT.
5. RELOCATE SOFFIT RETURN/RETURN GRILLE AS FAR FROM SUPPLY AS PHYSICALLY POSSIBLE TO AVOID ANY AIR "SHORT-CIRCUIT".

HVAC 4TH FL NEW WORK PLAN
SCALE: 3/16" = 1'-0"

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HVAC 4TH FL
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M-H-104

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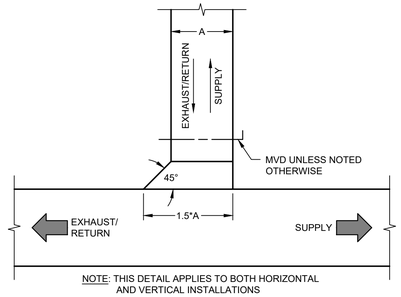
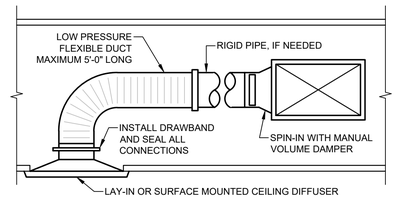


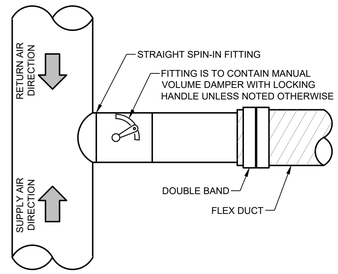
DUCT TAKE-OFF DETAIL

SCALE: NTS



DIFFUSER CONNECTION DETAIL

SCALE: NTS



DIFFUSER RUNOUT DETAIL

SCALE: NTS

100% DRAWING - PERMIT SET

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08/05/2024 7:41:15 AM
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MECHANICAL

REVISIONS		
	DATE	FOR
1		
2		
3		

51EC INC.
COLORADO SPRINGS, CO 80903
709.521.8044

TDG Architecture
201 East Las Animas Street, Suite 113
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EL PASO COUNTY

EL PASO COUNTY
SHERIFF'S OFFICE BUILDING
911 DISPATCH REMODEL
27 E. VERMIJO
COLORADO SPRINGS, CO 80903

DETAILS

DATE: 01/27/24
DRAWN BY: NSC
CHECKED BY: AIS
PROJECT NO:2023-5136-01
SHEET NO:

M-501

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OUTSIDE AIR SCHEDULE

UNIT TAG NO.	MAXIMUM UNIT CFM	OUTSIDE AIR CAPABLE (%)	ROOM	ROOM AREA (SF)	OCCUPANCY CLASSIFICATION	IMC TABLE 403.3.1.1 SUB-NOTE	Ez	OCC.	Rp	Ra	EXHAUST			Pz	Vbz	Voz	EXHAUST CFM DESIGNED PER ROOM	OUTSIDE AIR CFM DESIGNED PER ROOM	
							IMC TABLE 403.3.1.1.1.2 EFFECTIVENESS FACTOR	OCCUPANT DENSITY (# / 1000 SF)	CFM / PERSON	CFM / SF	CONTINUOUS EXHAUST	NUMBER OF FIXTURES	CFM / SF OR CFM / FIXTURE	ZONE POPULATION	BREATHING ZONE CFM	MINIMUM OUTSIDE AIR CFM REQUIRED			
AHU-COB-07	9750	20%	410B	112	Office Spaces	-	*0.8*	*5*	*5*	*0.06*			*0*	*0.6*	*10*	*12*	*300*	60	
			411A	126	Office Spaces	-	*0.8*	*5*	*5*	*0.06*			*0*	*0.6*	*11*	*13*	*350*	70	
			411B	107	Office Spaces	-	*0.8*	*5*	*5*	*0.06*			*0*	*0.5*	*9*	*11*	*300*	60	
NOTE: ORIGINAL ROOMS CFM WAS 600 TOTAL AND INCREASED TO 950 TOTAL CFM WHICH IS A CHANGE OF 350CFM WHICH EQUALS 3.5% CHANGE OF THE OVERALL SYSTEM.															**SYSTEM TOTAL**	**37**	**950**	**190**	**1950**
RTU-COB-01	7220	17%	416	2372	Telephone/Data Entry	-	*0.8*	*60*	*5*	*0.06*			*0*	*142.3*	*854*	*1067*		1122	
							0.8											0	
NOTE: THE ORIGINAL DRAWINGS STATE THAT RTU-COB-01 WAS SET AT 7% OUTSIDE AIR (510CFM OF O/A OF THE 7220 CFM TOTAL) DUE TO THE SCOPE OF WORK, ITS REQUESTED THAT THE O/A SETTING BE INCREASED																		0	
BY 10% UP TO 17% TOTAL OUTSIDE AIR, THIS DOES NOT EXCEED THE TYPICAL MAXIMUM OUTSIDE AIR SETITNG FOR A RTU, HOWEVER, OWNER/CONTRACTOR TO VERIFY THIS SETTING IS WITHIN THE UNITS DESIGN PARAMETERS.															**SYSTEM TOTAL**	**1067**	**0**	**1122**	**1227**

OUTSIDE AIR SCHEDULE

UNIT TAG NO.	MAXIMUM UNIT CFM	OUTSIDE AIR CAPABLE (%)	ROOM	ROOM AREA (SF)	OCCUPANCY CLASSIFICATION	IMC TABLE 403.3.1.1 SUB-NOTE	Ez	OCC.	Rp	Ra	EXHAUST			Pz	Vbz	Voz	EXHAUST CFM DESIGNED PER ROOM	OUTSIDE AIR CFM DESIGNED PER ROOM	
							IMC TABLE 403.3.1.1.1.2 EFFECTIVENESS FACTOR	OCCUPANT DENSITY (# / 1000 SF)	CFM / PERSON	CFM / SF	CONTINUOUS EXHAUST	NUMBER OF FIXTURES	CFM / SF OR CFM / FIXTURE	ZONE POPULATION	BREATHING ZONE CFM	MINIMUM OUTSIDE AIR CFM REQUIRED			
AHU-COB-12 (E)	3450	23%	B01	621	Telephone/Data Entry	-	*0.8*	*60*	*5*	*0.06*			*0*	*37.3*	*224*	*279*	*1250*	288	
NOTE: THE ORIGINAL DRAWINGS STATE THAT AHU-COB-12 WAS SET AT 5% OUTSIDE AIR (183CFM OF O/A OF THE 3450CFM TOTAL) DUE TO THE SCOPE OF WORK, ITS REQUESTED THAT THE O/A SETTING BE INCREASED																			
BY 18% UP TO 23% TOTAL OUTSIDE AIR, THIS DOES NOT EXCEED THE TYPICAL MAXIMUM OUTSIDE AIR SETITNG FOR A RTU, HOWEVER, OWNER/CONTRACTOR TO VERIFY THIS SETTING IS WITHIN THE UNITS DESIGN PARAMETERS.																			
FINALLY THE ORIGINAL ROOM WAS SET UP FOR 1750CFM AND THE NEW SCOPE OF WORK IS 1250CFM WHICH IS A DECREASE OF 500CFM OR 14.5% OF THE TOTAL SYSTEM.															**SYSTEM TOTAL**	**279**	**1250**	**288**	**794**

EXISTING ROOFTOP UNIT SCHEDULE

MARK	MFR	MODEL #	WEIGHT (LBS)	TONS	INPUT (MBH)	ACFM	O/A	O/A %	ESP	HP	VOLTS / Ø	MCA	MOCP	ECONOMIZER	SMOKE SHUTDOWN	NOTES
RTU-COB-01	EXISTING	EXISTING	N/A	18.0	N/A	7220	1227	17%	EXISTING	EXISTING	N/A	N/A	N/A	EXISTING	EXISTING	1,2

NOTES:

1	UNIT IS EXISTING. CONTRACTOR TO VERIFY CAPACITY AND CONDITION IS CONSISTENT WITH THE DATA IN THIS SCHEDULE AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
2	FOR SCOPE OF THIS WORK, IT IS REQUESTED THAT THE SETTING FOR THE OUTSIDE AIR IS INCREASED TO 17%. OWNER/CONTRACTOR TO VERIFY IF 17% IS WITHIN THE EXISTING UNIT(S) DESIGN PARAMETER.
3	

EXISTING AIR HANDING SCHEUDLE

MARK	MFR	MODEL #	WEIGHT (LBS)	TONS	INPUT (MBH)	ACFM	O/A	O/A %	ESP	HP	VOLTS / Ø	MCA	MOCP	ECONOMIZER	SMOKE SHUTDOWN	NOTES
AHU-COB-07	EXISTING	EXISTING	N/A	24.0	N/A	9750	1950	20%	EXISTING	EXISTING	N/A	N/A	N/A	EXISTING	EXISTING	1
AHU-COB-12	EXISTING	EXISTING	N/A	8.5	N/A	9750	1950	23%	EXISTING	EXISTING	N/A	N/A	N/A	EXISTING	EXISTING	1,2

NOTES:

1	UNIT IS EXISTING. CONTRACTOR TO VERIFY CAPACITY AND CONDITION IS CONSISTENT WITH THE DATA IN THIS SCHEDULE AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
2	FOR SCOPE OF THIS WORK, IT IS REQUESTED THAT THE SETTING FOR THE OUTSIDE AIR IS INCREASED TO 23%. OWNER/CONTRACTOR TO VERIFY IF 23% IS WITHIN THE EXISTING UNIT(S) DESIGN PARAMETER.
3	

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100% DRAWING - PERMIT SET

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EL PASO COUNTY

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SHERIFF'S OFFICE BUILDING
911 DISPATCH REMODEL
27 E. VERMIJO
COLORADO SPRINGS, CO 80903

SCHEDULES AND CALCULATIONS

DATE: 01/27/24
DRAWN BY: NSC
CHECKED BY: AIS
PROJECT NO:2023-5136-01
SHEET NO:
M-601

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY DIMENSIONS IN FIELD PRIOR TO PROCEEDING WITH ANY WORK.
2. THESE DOCUMENTS HAVE BEEN PRODUCED TO THE BEST OF THE ENGINEER'S ABILITY FROM AVAILABLE EXISTING INFORMATION AND/OR SURVEY OF FIELD CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTING FIELD CONDITIONS PRIOR TO BID AND PROVIDE A WRITTEN SUBMITTAL TO ENGINEER IDENTIFYING ANY DISCREPANCIES OR VARIANCES FOUND. THE SUBMITTAL MUST ALSO INCLUDE ANY COSTS REQUIRED FOR THE CONTRACTOR'S WORK TO MEET EXISTING CONDITIONS.
3. ALL WORK SHALL BE PERFORMED WITH QUALITY WORKMANSHIP, TO THE APPROVAL AND SATISFACTION OF THE ENGINEER.
4. ALL WORK, MATERIAL AND INSTALLATION SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE AND NATIONAL CODES AND ORDINANCES.
5. **CONTRACTOR TO VERIFY ANY CHANGES TO THIS SCOPE OF WORK WITH ENGINEER PRIOR TO ROUGH-IN OR INSTALLATION.**

POST CONSTRUCTION PHASE GENERAL NOTES

CONTRACTOR SHALL PROVIDE RECORD DRAWINGS TO ENGINEER. DRAWINGS SHALL INCLUDE ALL ADDENDUM ITEMS, ACCEPTED REQUESTS FOR INFORMATION (RFI'S), CHANGE ORDERS, ALTERATIONS, REROUTING, FIELD SKETCHES, MARK-UPS, ETC.

SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER.

CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS OR EQUIPMENT.

SYSTEMS AND THEIR COMPONENTS SHALL BE COMPLETE, OPERABLE AND READY FOR CONTINUOUS OPERATION.

SCOPE

THE SCOPE OF WORK COVERED HEREIN CONSISTS OF FURNISHING ALL LABOR, MATERIALS, NECESSARY EQUIPMENT, AND SERVICES TO COMPLETE THE DESIGN AND RELATED WORK IN FULL ACCORDANCE WITH THESE DRAWINGS, AS SPECIFIED HEREIN, OR BOTH, AND IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT.

CODES, RULES, PERMITS, AND FEES

THE CONTRACTOR (MECHANICAL, ELECTRICAL AND PLUMBING) IS GENERALLY RESPONSIBLE TO ENSURE ALL WORK, BOTH OLD AND NEW, COMPLIES WITH THE APPLICABLE CODE (SPECIFIED BY THE JURISDICTION IN WHICH THE WORK IS BEING COMPLETED) AS WELL AS ANY APPLICABLE LOCAL CODES, STATE CODES, ADDENDUMS, AND ORDINANCES.

SHOP DRAWINGS

SHOP DRAWINGS FOR MATERIALS OR PRODUCTS SPECIFIED HEREIN AND/OR INDICATED ON DRAWINGS BY TRADE NAME, MANUFACTURER'S NAME OR CATALOG NUMBER SHALL BE PROVIDED AS SPECIFIED.

SUBSTITUTIONS FOR EQUIPMENT SPECIFIED IN THIS SCOPE OF WORK MUST BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK.

COOPERATION WITH OTHER TRADES

THE SUBCONTRACTOR SHALL GIVE FULL COOPERATION TO OTHER TRADES AND SHALL FURNISH, IN WRITING, TO THE CONTRACTOR, WITH COPIES TO THE ENGINEER (OR ARCHITECT), ANY INFORMATION NECESSARY TO PERMIT THE WORK OF ALL TRADES TO BE INSTALLED SATISFACTORILY AND WITH THE LEAST POSSIBLE INTERFERENCE OR DELAY. COORDINATE ALL INFORMATION ON EQUIPMENT FURNISHED BY OTHERS BEFORE BEGINNING INSTALLATION.

CUTTING, PATCHING AND FINISHING

UNLESS NOTED OTHERWISE THE CONTRACTOR SHALL DO ALL CUTTING, DRILLING, ETC. REQUIRED FOR WORK UNDER THIS SECTION OF THE SPECIFICATION, INSIDE THE BUILDING.

MATERIAL AND WORKMANSHIP

ALL MATERIALS AND APPARATUS REQUIRED FOR THE WORK SHALL BE NEW UNLESS INDICATED OTHERWISE IN THE PLANS.

RECORD DRAWINGS

THE CONTRACTOR SHALL KEEP ACCURATE RECORDS OF CHANGES OR ALTERATIONS DURING THE ACTUAL CONSTRUCTION PROCESS IF DIFFERENT FROM THE PLANS.

THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A REPRODUCIBLE SET OF PLANS FOR EACH DISCIPLINE OF THE COMPLETE INSTALLATION ALONG WITH FIRE ALARM SYSTEM, AS INSTALLED. THE SCALE ON THESE DRAWINGS SHALL BE NO SMALLER THAN THE SCALE USED ON THE ORIGINAL PLANS.

TESTING

FINAL TESTS SHALL BE MADE ONLY AFTER THE ENGINEER IS SATISFIED THAT ALL WORK HAS BEEN COMPLETED.

FINAL ACCEPTANCE

AFTER TESTING, A FINAL INSPECTION SHALL BE MADE BY THE ENGINEER AND OTHER AUTHORIZED PERSONS WITH THE CONTRACTOR.

FINAL ACCEPTANCE OF THE PROJECT SHALL NOT SUPERSEDE THE OWNER'S RIGHT TO REQUIRE REPLACEMENT AND/OR REPAIR ANY DEFECTIVE WORK OR MATERIALS.

ELECTRICAL GENERAL NOTES

1. ALL ELECTRICAL EQUIPMENT SHALL BE U.L. LISTED. ALL EQUIPMENT SHALL BE INSTALLED PER U.L. REQUIREMENTS.
2. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, SPLICES, AND INSPECTIONS.
3. ELECTRICAL CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES OF ALL ELECTRICAL EQUIPMENT AND LIGHT FIXTURES TO ENGINEERING THROUGH THE GENERAL CONTRACTOR FOR APPROVAL PRIOR TO ORDERING.
4. FOR ALL EQUIPMENT IDENTIFIED AS PROVIDED BY OTHERS, THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF EQUIPMENT PRIOR TO ROUGH-IN.
5. ALL WIRE SHALL BE THWN/THHW, 75 DEGREE CELSIUS RATED FOR GENERAL USE UNLESS NOTED OTHERWISE.
6. MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS NOTED OTHERWISE.
7. ALL WIRE SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM OF 30-DEGREE CELSIUS AMBIENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATION. CONTRACTOR SHALL COORDINATE WIRE SIZE ADJUSTMENT IN AMBIENT TEMPERATURES HIGHER THAN 30-DEGREE CELSIUS.
8. WIRE TERMINATION PROVISIONS FOR PANEL BOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED SUITABLE FOR AT A MINIMUM 75-DEGREE CELSIUS.
9. PROVIDE MAINTENANCE RECEPTACLES WITHIN 25' OF ALL MECHANICAL, MOTORIZED OR ROOFTOP MOUNTED EQUIPMENT.
10. RECEPTACLES INSTALLED OUTSIDE, ON BUILDING EXTERIOR, ON THE ROOF, WITHIN 6' OF ANY SINK (OR WATER SOURCE CONNECTION), VENDING MACHINES, BATHROOM, AND KITCHEN AREAS SHALL BE GFCI TYPE OR PROTECTED BY GFCI CIRCUIT BREAKERS PER NEC.
11. CONNECTION AND ROUGH-IN REQUIREMENTS TO EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH VENDOR'S EQUIPMENT SPECIFIED.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT, WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING, PROVIDED UNDER THIS SECTION OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SCOPE OF WORK.
13. CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO ANY EQUIPMENT FURNISHED AND PROVIDED BY OWNER. EXACT LOCATION OF EQUIPMENT SHALL BE VERIFIED PRIOR TO ROUGH-IN.
14. ALL NEW EQUIPMENT SUCH AS SWITCHBOARDS, DISTRIBUTION BOARDS, DISCONNECT SWITCHES, TRANSFORMERS AND PANEL-BOARDS SHALL BE BY THE SAME MANUFACTURER UNLESS APPROVED BY ENGINEERING.
15. COORDINATE WITH MECHANICAL DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT. SHOULD MECHANICAL EQUIPMENT LOCATIONS DIFFER FROM THOSE SHOWN ON ELECTRICAL DRAWINGS, MECHANICAL DRAWINGS SHALL GOVERN. ENGINEER SHALL BE NOTIFIED OF ANY NECESSARY ADJUSTMENTS THEREIN.
16. PROVIDE FUSES OR HACR TYPE CIRCUIT BREAKERS FOR ALL AIR CONDITIONING EQUIPMENT. FUSES AND BREAKERS FOR AIR CONDITIONING EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURERS NAMEPLATE. CONTRACTOR SHALL IDENTIFY AND CONTACT ENGINEERING UPON ANY DISCREPANCIES.
17. ALL MECHANICAL EQUIPMENT SHALL BE FURNISHED WITH FUSIBLE DISCONNECTS. THE DISCONNECTS SHALL USE CLASS "R" TYPE FUSES UNLESS NOTED OTHERWISE.
18. FOR ALL MULTI-WIRED BRANCH CIRCUITS, HANDLE TIES SHALL BE PROVIDED. HANDLE TIES SHALL BE REQUIRED IF INDIVIDUAL NEUTRAL CONDUCTORS ARE PROVIDED PER NEC 210.4(B).
19. SHARED NEUTRALS AND TIE-HANDLES FOR BREAKERS SHALL NOT BE ALLOWED UNLESS APPROVED BY ENGINEERING.
20. ALL PANEL DIRECTORIES SHALL BE PROTECTED AND INSTALLED UNDER CLEAR PLASTIC COVERS.
21. ALL POWER TYPE ELECTRICAL EQUIPMENT (I.E. PANEL-BOARDS, SWITCHES, SWITCHBOARDS, ETC.) SHALL BE PROVIDED WITH ENGRAVED NAMEPLATES INDICATING EQUIPMENT DESIGNATION, EQUIPMENT SERVED, SIZE, AND VOLTAGE. NAMEPLATES SHALL BE FASTENED PERMANENTLY WITH ADHESIVE OR MECHANICAL CONNECTION.
22. ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC RACEWAYS UNLESS NOTED OTHERWISE.
23. CONDUIT SHALL BE A MINIMUM OF ¾" UNLESS APPROVED BY ENGINEERING.
24. ALL CIRCUITS SHALL HAVE A CODE SIZED COPPER GROUNDING CONDUCTOR. THE CONDUIT SIZE SHALL BE INCREASED AS REQUIRED.
25. PIPES PASSING THROUGH 1 HOUR FIRE RATED WALLS AND FLOORS SHALL BE SEALED WITH U.L. LISTED MATERIAL 2M FIRE BARRIER, CAULK OR PUTTY OR ENGINEERING APPROVED EQUAL.
26. ALL SPLICES OR CONNECTIONS SHALL BE MADE IN OUTLET BOXES, JUNCTION BOXES OR EQUIPMENT, WHERE ACCESSIBLE.

PANEL BOARDS

PANELS SHALL BE OF SIZES, RATINGS, AND REQUIREMENTS SHOWN ON THE PLANS. PANELS SHALL BE OF DEAD FRONT CONSTRUCTION.

ALL BUSSING SHALL BE AS SPECIFIED ON PANEL SCHEDULES.

MULTI-POLE BREAKERS SHALL HAVE A SINGLE HANDLE TO TRIP ALL UNGROUNDED CONDUCTORS SIMULTANEOUSLY.

PANEL-BOARD CIRCUIT DIRECTORY SHALL BE UPDATED WITH CURRENT WORK SHOWN IN FINAL REVISIONS OF DRAWINGS.

LIGHTING

ALL LIGHTING SHALL BE LISTED BY A RECOGNIZED TESTING LAB (I.E. UL, ETC.)

LUMINAIRES IN CONTACT WITH INSULATION SHALL BE U.L. LISTED FOR THERMAL BARRIER OR PROVIDED WITH 3-INCH MINIMUM CLEARANCE.

CONTRACTOR TO ENSURE THAT ALL LIGHTING EXPOSED TO THE PLENUM IS PLENUM RATED.

GROUNDING

PROVIDE A COMPLETE GROUNDING NETWORK FOR THE ENTIRE ELECTRICAL SYSTEM TO COMPLY WITH NEC REQUIREMENTS.

ALL CONDUITS SHALL HAVE A GROUND WIRE INSTALLED.

A CONDUIT GROUND SHALL NOT BE USED, UNLESS APPROVED BY ENGINEER.

BOND SERVICE ENTRANCE GROUND TO BUILDING STEEL, METAL WATER MAINS, MODE ELECTRODES, ETC.

DISCONNECT SWITCHES

EQUIPMENT DISCONNECT SWITCHES SHALL BE GENERAL DUTY, OR HEAVY DUTY OF THE TYPE AND RATING SHOWN ON THE PLANS. FUSES SHALL BE PROVIDED OF THE APPROPRIATE TYPE AND RATING FOR THE EQUIPMENT TO BE SERVED.

EQUIPMENT PROVIDED BY OTHERS

E.C. SHALL PROVIDE CONDUIT, WIRE AND DISCONNECT SWITCHES INDICATED ON DRAWINGS, TO CONNECT ELECTRICAL EQUIPMENT SUPPLIED BY OTHERS, WHICH SHALL INCLUDE BOTH NEW, AND RELOCATION OF EXISTING EQUIPMENT. ALL FINAL ELECTRICAL CONNECTIONS ARE TO BE BY ELECTRICAL CONTRACTOR.

CONDUCTORS

CONDUCTORS - ALL CONDUCTORS SHALL BE RATED 600V, COPPER, TYPE THWN/THHW OR APPROVED BY ENGINEER. CONDUCTORS OF #8 AWG AND LARGER SHALL BE STRANDED.

CONDUCTORS SHALL BE PULLED WITHOUT THE USE OF OIL OR GREASE. WIRE PULLING LUBRICANTS WHICH ARE APPROVED FOR USE WITH CONDUCTOR INSULATION MAY BE USED. CARE SHALL BE TAKEN IN PULLING WIRE TO ASSURE THAT MAXIMUM ALLOWABLE PULLING TENSION OF WIRE IS NOT EXCEEDED. WIRING WITH DAMAGED CONDUCTORS OR INSULATION WILL NOT BE ACCEPTED.

CONDUIT

CONDUIT SHALL BE EMT, GRC, PVC (SCH 40 OR SCH 80), LIQUID TIGHT METAL FLEXIBLE, OR METAL FLEXIBLE OR APPROVED BY THE ENGINEER.

FLEX SHALL BE USED FOR CONNECTION TO ALL FIXED EQUIPMENT, EXCEPT IN DAMP OR WET LOCATIONS, WHERE LIQUID TIGHT METAL FLEXIBLE SHALL BE USED.

INSULATING BUSHINGS WITH DOUBLE LOCK-NUTS SHALL BE USED FOR ENTRANCES OF 1-1/4" OR LARGER INTO ENCLOSURES.

SIZES INDICATED ARE MINIMUMS; LARGER SIZES MAY BE USED TO FACILITATE WIRE PULLING, ETC.

ICC/ANSI A117.1-2009

MOUNTING HEIGHT OF ALL EXISTING AND NEW ELECTRICAL RECEPTACLES, SWITCHES AND CONTROLS SHALL COMPLY WITH ICC/ANSI A117.1-2009.

PER SECTION 308.2 FORWARD REACH

UNOBSTRUCTED - MINIMUM OF 15 INCHES AND A MAXIMUM OF 48 INCH ABOVE FINISHED FLOOR.

OBSTRUCTED - WHERE OBSTRUCTION IS 20 INCHES MAX A MAXIMUM OF 48 INCHES ABOVE FINISHED FLOOR. WHERE OBSTRUCTION EXCEEDS 20 INCHES A MAXIMUM OF 44 INCHES ABOVE FINISHED FLOOR.

PER SECTION 308.3 SIDE REACH

UNOBSTRUCTED - MINIMUM OF 15 INCHES AND A MAXIMUM OF 48 INCHES ABOVE FINISHED FLOOR.

CODES

WHERE APPLICABLE, THE GUIDANCE SET FORTH IN THE 2015 IECC CODE SHALL GOVERN THE SCOPE OF WORK UNDER THIS CONTRACT. THE CODE SECTIONS RELATING TO THE ELECTRICAL SCOPE OF WORK INCLUDE, BUT ARE NOT LIMITED TO:

SECTION 303 - MATERIALS, SYSTEMS AND EQUIPMENT
- SECTION 303.3 - MAINTENANCE INFORMATION

SECTION 402 - BUILDING ENVELOPE REQUIREMENTS
- SECTION 402.1 - GENERAL (PRESCRIPTIVE)
- SECTION 402.4 - FENESTRATION
- SECTION 402.5 - AIR LEAKAGE - THERMAL ENVELOPE

SECTION 405 - ELECTRICAL POWER AND LIGHTING SYSTEMS
- SECTION 405.2 - LIGHTING CONTROLS
- SECTION 405.3 - EXIST SIGNS
- SECTION 405.4 - INTERIOR LIGHTING POWER REQUIREMENTS
- SECTION 405.5 - EXTERIOR LIGHTING
- SECTION 405.6 - ELECTRICAL ENERGY CONSUMPTION
- SECTION 405.7 - ELECTRICAL TRANSFORMERS
- SECTION 405.8 - ELECTRICAL MOTORS

SECTION 406 - ADDITIONAL EFFICIENCY PACKAGE OPTIONS
- SECTION 406.1 - REQUIREMENTS
- SECTION 406.3 - REDUCED LIGHTING POWER DENSITY
- SECTION 406.4 - ENHANCED DIGITAL LIGHTING CONTROLS
- SECTION 406.5 - ON-SITE RENEWABLE ENERGY

SECTION 407 - TOTAL BUILDING PERFORMANCE

SECTION 408 - SYSTEM COMMISSIONING
- SECTION 408.1 - GENERAL
- SECTION 408.3 - LIGHTING SYSTEM FUNCTIONAL TESTING

SECTION 501 - GENERAL

SECTION 502 - ADDITIONS

SECTION 503 - ALTERATIONS
- SECTION 503.1 - GENERAL
- SECTION 503.6 - LIGHTING SYSTEMS

SECTION 504 - REPAIRS
- SECTION 504.1 - GENERAL
- SECTION 504.2 - APPLICATION

SECTION 505 - CHANGE OF OCCUPANCY OR USE

LEGEND AND SYMBOLS

LIGHTING

(FLUSH MOUNT) (SURFACE MOUNT)

- 2'x4' TROFFER
- 2'x2' TROFFER
- 1'x4' TROFFER
- CAN FIXTURE
- SCONCE FIXTURE
- WALL MOUNTED FIXTURE
- TRACK LIGHTING
- OCCUPANCY SENSOR
- PHOTOCELL SWITCH
- EXIT SIGN (WITH BATTERY BACKUP - 1 HR)
- FROGEYE EMERGENCY FIXTURE (WITH BATTERY BACKUP - 1 HR)
- CIRCUIT HOME-RUN
- INDICATES MULTIPLE CIRCUITS IN ONE CONDUIT
- SWITCH, * = *4: FOUR-WAY, 3: THREE-WAY, OS: OCCUPANCY SENSOR, VS: VACANCY SENSOR, D: DIMMER*

POWER

- RECEPTACLE, * = *G: GFCI, W: WEATHER-PROOF, AC: ABOVE COUNTER, IG: ISOLATED GROUND*
- RECEPTACLE, QUAD
- RECEPTACLE, TAMPER-PROOF
- RECEPTACLE, SPECIAL
- RECEPTACLE, HALF-SWITCH
- RECEPTACLE, * = *C: CEILING, F: FLOOR*
- RECEPTACLE, SPECIAL
- JUNCTION BOX, TYPICAL
- JUNCTION BOX, SPECIAL
- CIRCUIT HOME-RUN
- INDICATES MULTIPLE CIRCUITS IN ONE CONDUIT
- PANEL, NEW
- PANEL, EXISTING
- METER

FIRE/ALARM

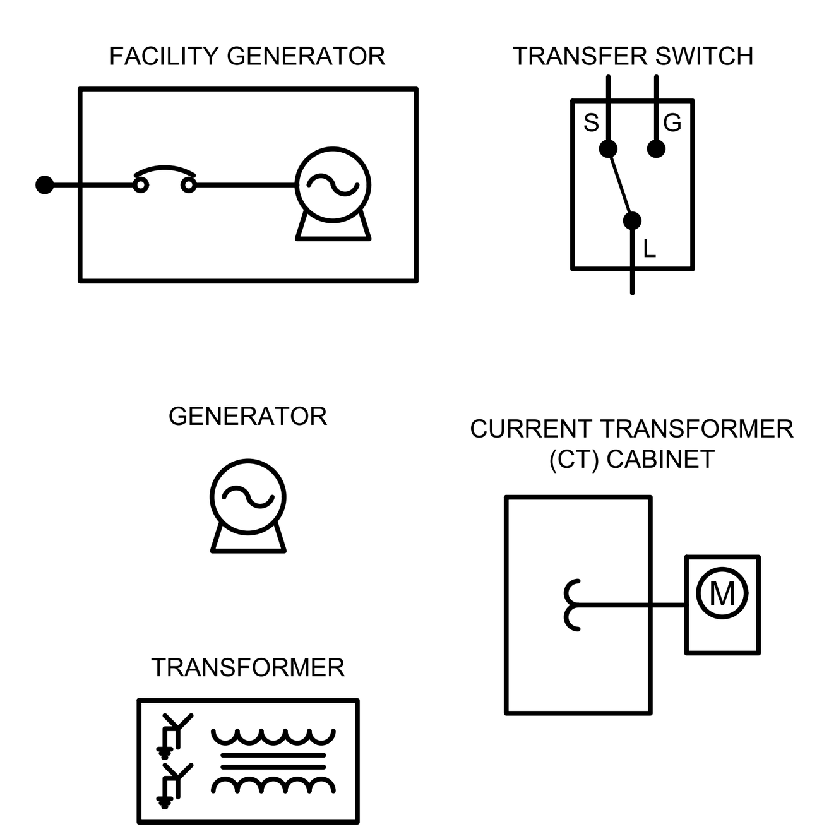
- SMOKE DETECTOR
- CARBON MONOXIDE DETECTOR
- SMOKE/CARBON MONOXIDE COMBINATION DETECTOR
- FIRE PULL LEVER
- FIRE HORN
- FIRE HORN AND SPEAKER

COMMUNICATIONS

- CATV OUTLET (ROUGH-IN)
- TELEPHONE OUTLET (ROUGH-IN)
- DATA OUTLET (ROUGH-IN)
- TELEPHONE/DATA COMBINATION OUTLET (ROUGH-IN)

SINGLE-LINE DIAGRAM

- SOURCE TIE-IN
- METER
- MOTOR
- WEATHERHEAD
- SERVICE ENTRANCE GROUND
- GROUND
- CURRENT TRANSFORMER (CT)
- SHORT CIRCUIT
- DISCONNECT SWITCH
- FUSE
- BREAKER
- BUS DUCT
- STARTER (VENDOR PROVIDED, SPECIFIED)



GENERAL

- KEY NOTE
- FEEDER TAG
- GENERAL EQUIPMENT TAG
- M/E/P EQUIPMENT TAG
- POINT OF CONNECTION
- NOT IN CONTRACT
- DEMOLITION

ABBREVIATIONS

GENERAL

AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AG	ABOVE GRADE
DN	DOWN
EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTURER
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
POC	POINT OF CONNECTION
QTY	QUANTITY
TCC	TEMPERATURE CONTROL CONTRACTOR
W/	WITH
W/O	WITHOUT
WO	WALL OPENING (ABOVE CEILING)

SCOPE

(E)	EXISTING
(N)	NEW
(R)	RELOCATED
(V)	VENDOR

ELECTRICAL

FLA	FULL LOAD AMPS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
MCA	MINIMUM CURRENT AMPACITY
MOCP	MAXIMUM OVER-CURRENT PROTECTION
OS	OCCUPANCY SENSOR
TTB	TELEPHONE TERMINATION BLOCK
W	WEATHERPROOF

SHEET NOMENCLATURE

X - X - # # # . X

LEVEL 1 DESIGNATION
- M MECHANICAL
- E ELECTRICAL
- P PLUMBING
- MD MECH. DEMOLITION
- ED ELEC. DEMOLITION

LEVEL 2 DESIGNATION *
MAY NOT APPLY FOR COMBINED SHEETS
- H HVAC
- G GAS
- D PROCESS
- P POWER
- L LIGHTING
- W WATER
- S SANITARY (WASTE)

SHEET TYPE DESIGNATION
- 0 GENERAL
- 1 PLANS
- 2 ELEVATIONS
- 3 SECTIONS
- 4 LARGE SCALE PLANS
- 5 DETAILS
- 6 SCHEDULES & CALCULATIONS
- 7 DIAGRAMS
- 8 < NOT USED >
- 9 ISOMETRICS

SHEET NUMBER
01 - 99

SUPPLEMENTAL
- 1 - 9 FLOORS
- B BASEMENT
- M MEZZANINE
- R ROOF

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911 DISPATCH REMODEL
27 E. VERMIJO
COLORADO SPRINGS, CO 80903

LEGEND, NOTES AND SPECIFICATIONS

DATE: 01/27/24
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PROJECT NO: 2023-5136-01
SHEET NO:
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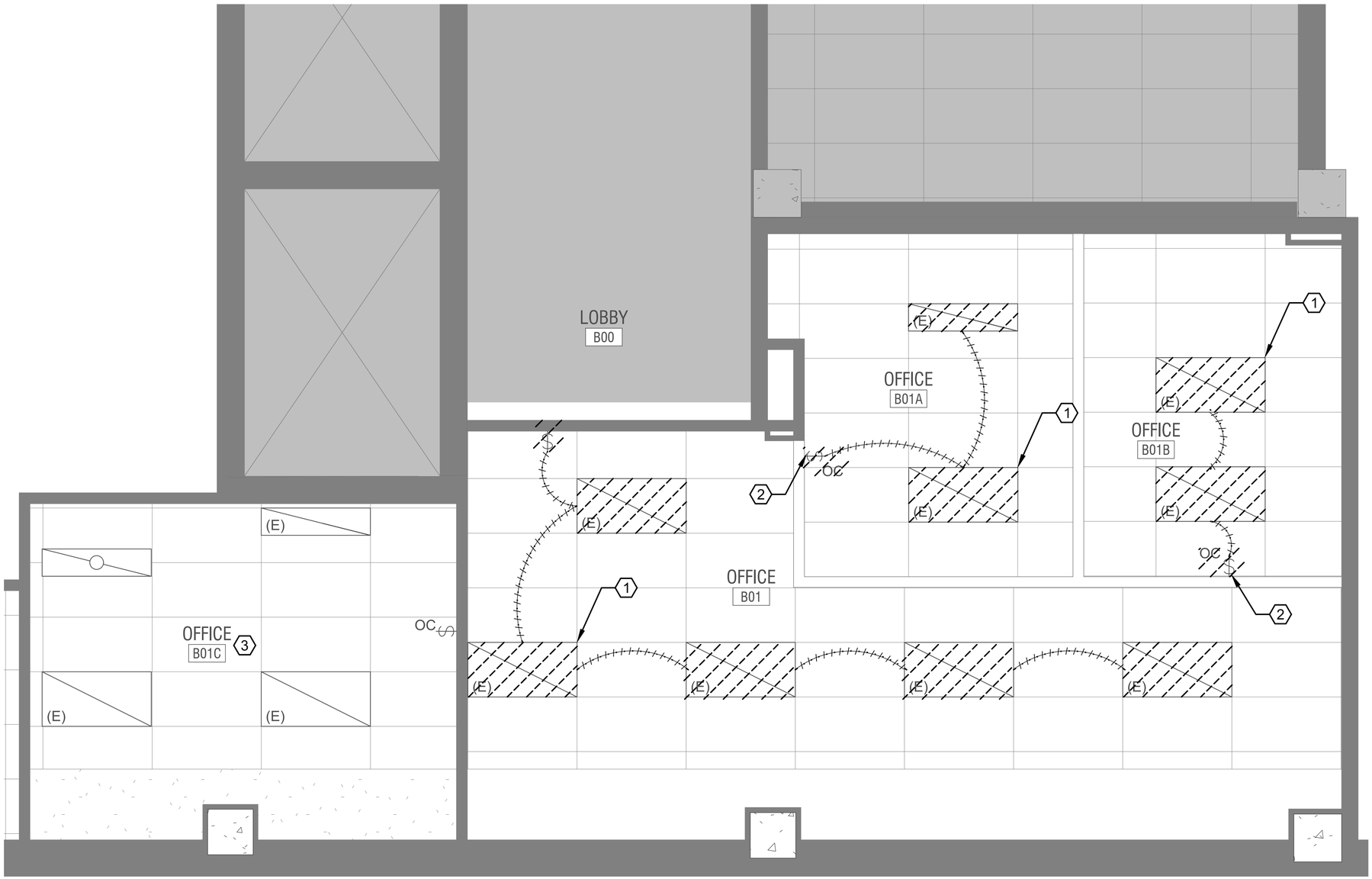

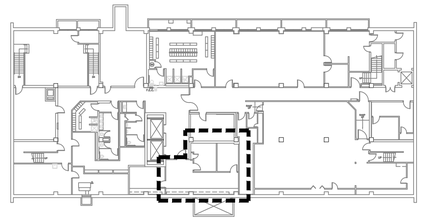

KEY MAP

GENERAL NOTES:

EXISTING CONDITIONS HAVE BEEN COMPLETED TO THE BEST OF THE ENGINEER'S ABILITY. SHOULD EXISTING CONDITIONS DIFFER FROM LAYOUT SHOWN, CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ENGINEER TO ADDRESS ANY DISCREPANCIES.

DEMOLITION KEY NOTES:

1. CONTRACTOR TO REMOVE ALL EXISTING FIXTURE IN OFFICES B01, B01A AND B01B IN ITS ENTIRETY AND TRACE BACK TO SOURCE. IF OTHER DEVICES REMAIN ON CIRCUIT, CONTRACTOR IS TO ENSURE THEY ARE OPERATIONAL AND FUNCTIONING AFTER DEMOLITION WORK IS COMPLETE.
2. OCCUPANCY SENSOR SWITCH TO BE REMOVED AND RETURNED TO THE OWNER.
3. EXISTING FIXTURES TO REMAIN AS IS IN OFFICE B01C, CONTRACTOR IS TO ENSURE THEY ARE OPERATIONAL AND FUNCTIONING AFTER DEMOLITION WORK IS COMPLETE.

LIGHTING BASEMENT DEMOLITION PLAN
SCALE: 1/2" = 1'-0"

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LIGHTING BASEMENT DEMOLITION PLAN

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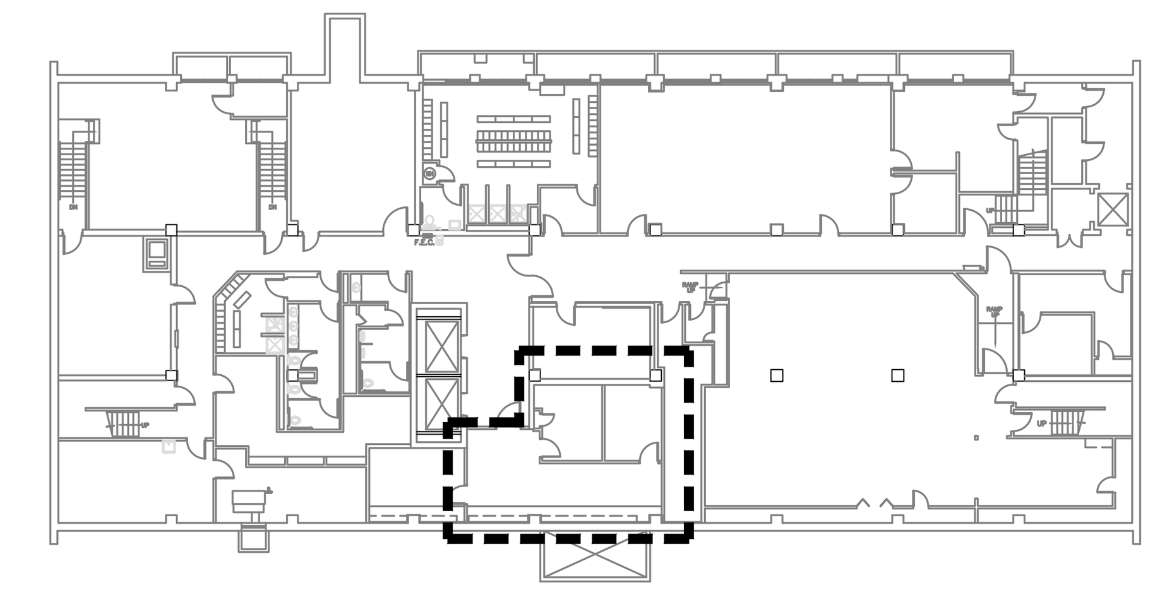

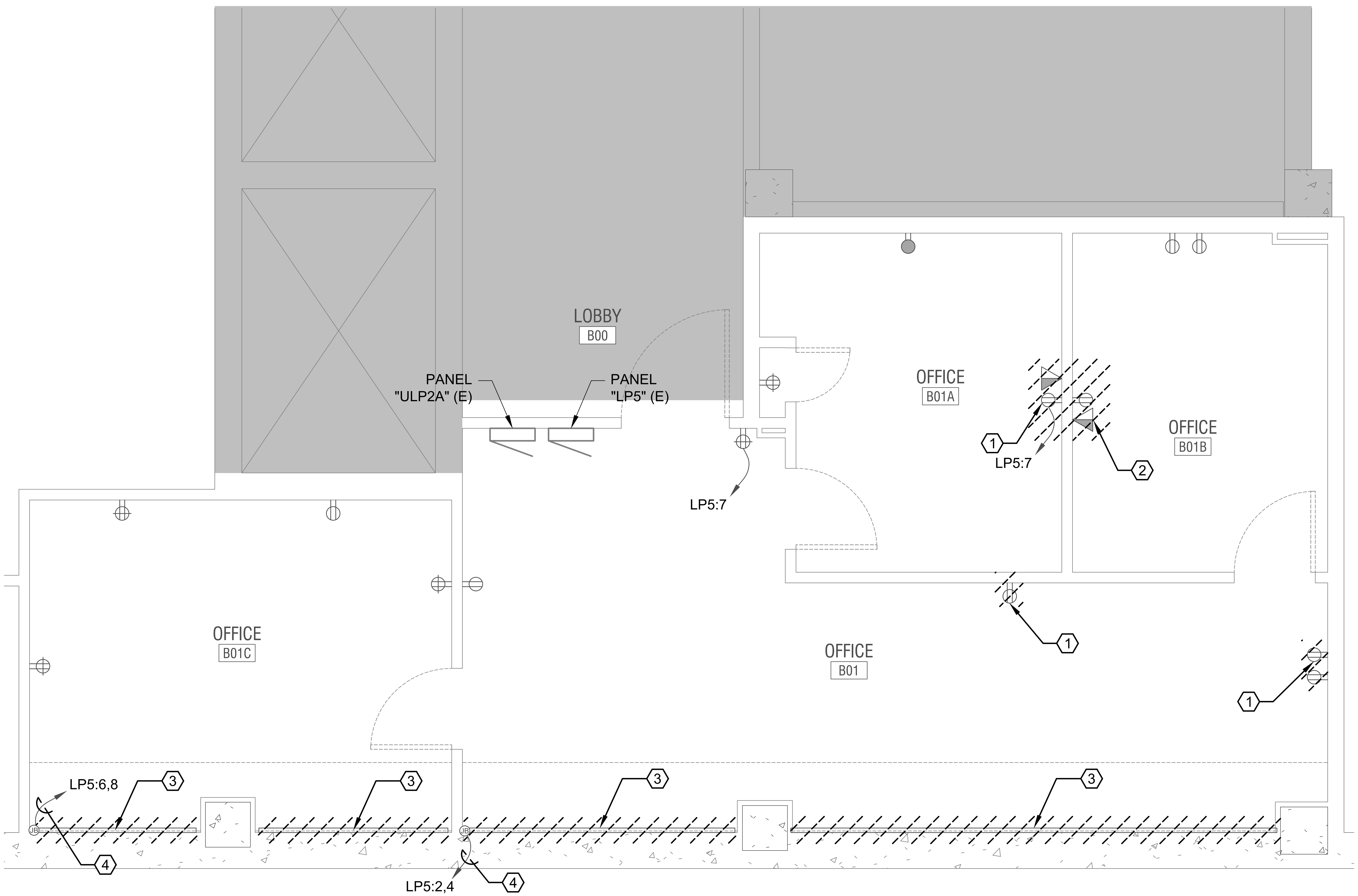

POWER BASEMENT DEMOLITION PLAN
SCALE: 1/2" = 1'-0"

GENERAL NOTES:

EXISTING CONDITIONS HAVE BEEN COMPLETED TO THE BEST OF THE ENGINEER'S ABILITY. SHOULD EXISTING CONDITIONS DIFFER FROM LAYOUT SHOWN, CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ENGINEER TO ADDRESS ANY DISCREPANCIES.

ALL EXISTING RECEPTACLES ARE TO BE VERIFIED, TRACE AND THE FRONT OF THE EXISTING RECEPTACLE SHALL BE LABELED WITH THE SOURCE PANEL AND IT'S ASSOCIATED CIRCUIT.

DEMOLITION KEY NOTES:

1. CONTRACTOR TO DEMO AND REMOVE RECEPTACLE(S) IN ITS ENTIRETY. CONTRACTOR TO TRACE BRANCH CIRCUIT TO RECEPTACLE AND REMOVE EITHER BACK TO PANEL AND LABEL BREAKER AS "SPARE" OR TO NEAREST REMAINING DEVICE. IF CIRCUIT IS REMOVED TO NEAREST REMAINING DEVICE CONTRACTOR IS RESPONSIBLE FOR ENSURING REMAINING DEVICES ARE OPERATIONAL AND CONTINUOUS AFTER DEMOLITION OF WORK IDENTIFIED IS COMPLETE.
2. CONTRACTOR TO REMOVE DATA/COMMUNICATIONS PORT IN ITS ENTIRETY. COORDINATE WITH OWNER FOR REMOVAL OF LOW VOLTAGE CABLE.
3. CONTRACTOR TO DEMO AND REMOVE WALL POWER STRIP IN ITS ENTIRETY. CONTRACTOR TO TRACE BRANCH CIRCUIT BACK TO PANEL AND LABEL BREAKER AS "SPARE" OR TO NEAREST REMAINING DEVICE. IF CIRCUIT IS REMOVED TO NEAREST REMAINING DEVICE CONTRACTOR IS RESPONSIBLE FOR ENSURING REMAINING DEVICES ARE OPERATIONAL AND CONTINUOUS AFTER DEMOLITION OF WORK IDENTIFIED IS COMPLETE.
4. IF POSSIBLE CONTRACTOR CAN RETAIN EXISTING HOME RUNS TO REUSE FOR NEW POWER DISTRIBUTION IN THIS AREA. SEE NEW WORK PLAN.

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POWER BASEMENT DEMOLITION PLAN

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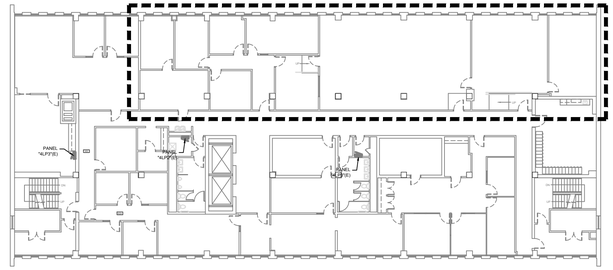
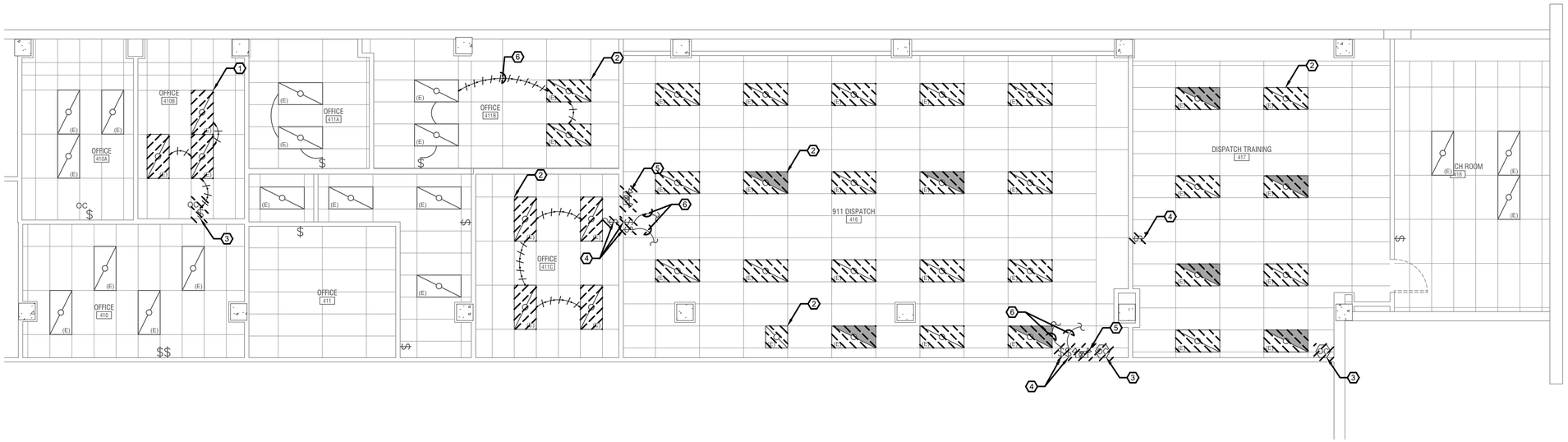


KEY MAP



LIGHTING 4TH FL DEMOLITION PLAN

SCALE: 3/16" = 1'-0"

GENERAL NOTES:

EXISTING CONDITIONS HAVE BEEN COMPLETED TO THE BEST OF THE ENGINEER'S ABILITY. SHOULD EXISTING CONDITIONS DIFFER FROM LAYOUT SHOWN, CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ENGINEER TO ADDRESS ANY DISCREPANCIES.

DEMOLITION KEY NOTES:

1. CONTRACTOR TO REMOVE EXISTING LIGHT FIXTURE AND RETAIN FIXTURE FOR RELOCATION. FIXTURE TO BE CLEANED, RELAMPED AND PROTECTED FOR RELOCATION. SEE SHEET E-L-101.B FOR NEW FIXTURE LOCATION. (TYPICAL OF 3)
2. CONTRACTOR TO REMOVE EXISTING FIXTURE IN ITS ENTIRETY AND TRACE BACK TO SOURCE. IF OTHER DEVICES REMAIN ON CIRCUIT, CONTRACTOR IS TO ENSURE THEY ARE OPERATIONAL AND FUNCTIONING AFTER DEMOLITION WORK IS COMPLETE. (TYPICAL OF 33)
3. OCCUPANCY SENSOR SWITCH TO BE REMOVED AND RETURNED TO OWNER.
4. REMOVE EXISTING LIGHT SWITCH AND SWITCH LEG TO EXISTING LIGHT FIXTURE AS SHOWN.
5. REMOVE EXISTING EMERGENCY/EXIT COMBO FIXTURE.
6. CONTRACTOR TO REMOVE POWER LEG TO LIGHTING SYSTEM IN ROOM IDENTIFIED. NEW POWER LEG WILL BE PROVIDED. SEE SHEET E-L-104 FOR NEW WORK PLAN.

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LIGHTING 4TH FL
DEMOLITION PLAN

DATE:	01/27/24
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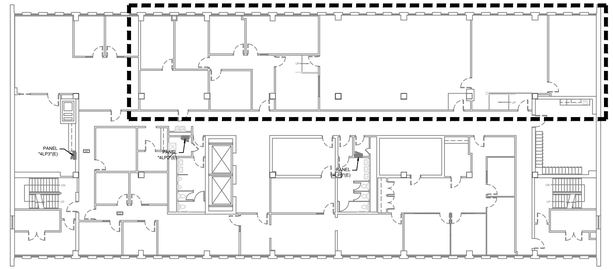
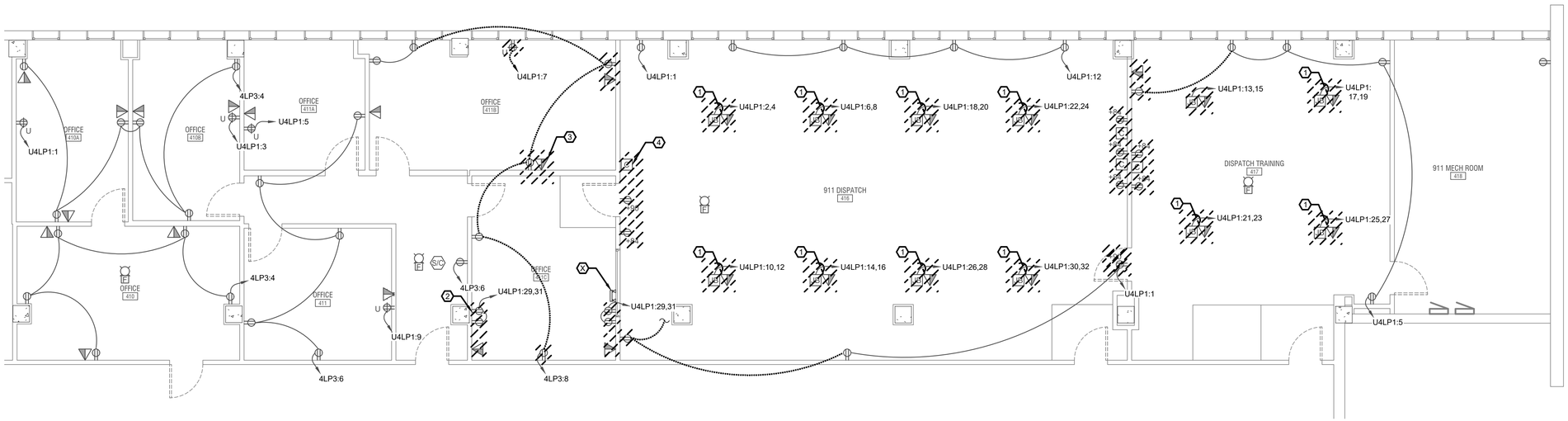


KEY MAP



POWER 4TH FL DEMOLITION PLAN

SCALE: 3/16" = 1'-0"

GENERAL NOTES:

EXISTING CONDITIONS HAVE BEEN COMPLETED TO THE BEST OF THE ENGINEER'S ABILITY. SHOULD EXISTING CONDITIONS DIFFER FROM LAYOUT SHOWN, CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ENGINEER TO ADDRESS ANY DISCREPANCIES.

ALL EXISTING RECEPTACLES ARE TO BE VERIFIED, TRACE AND THE FRONT OF THE EXISTING RECEPTACLE SHALL BE LABELED WITH THE SOURCE PANEL AND IT'S ASSOCIATED CIRCUIT.

DEMOLITION KEY NOTES:

1. ALL HOME-RUNS IDENTIFIED SHALL BE INTERCEPTED, REMOVED FROM EXISTING PANEL AND THE EXISTING CONDUIT AND CONDUCTOR CAN BE REUSED AS MUCH AS POSSIBLE AND REROUTED TO THE NEW EMERGENCY PANEL AS INDICATED ON THE NEW WORK PLANS ON SHEET E-P-104. (TYPICAL OF ALL UNLESS INDICATED OTHERWISE)
2. CONTRACTOR TO DEMO AND REMOVE RECEPTACLE(S) IN ITS ENTIRETY. CONTRACTOR TO TRACE BRANCH CIRCUIT TO RECEPTACLE AND REMOVE EITHER BACK TO PANEL AND LABEL BREAKER AS "SPARE" OR TO NEAREST REMAINING DEVICE. IF CIRCUIT IS REMOVED TO NEAREST REMAINING DEVICE CONTRACTOR IS RESPONSIBLE FOR ENSURING REMAINING DEVICES ARE OPERATIONAL AND CONTINUOUS AFTER DEMOLITION OF WORK IDENTIFIED IS COMPLETE. (TYP. OF 16)
3. CONTRACTOR TO DEMO AND REMOVED DATA PORT IN ITS ENTIRETY. (TYP. OF 4)
4. CONTRACTOR TO DEMO AND REMOVED CABLE PORT IN ITS ENTIRETY. (TYP. OF 2)

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POWER 4TH FL DEMOLITION PLAN

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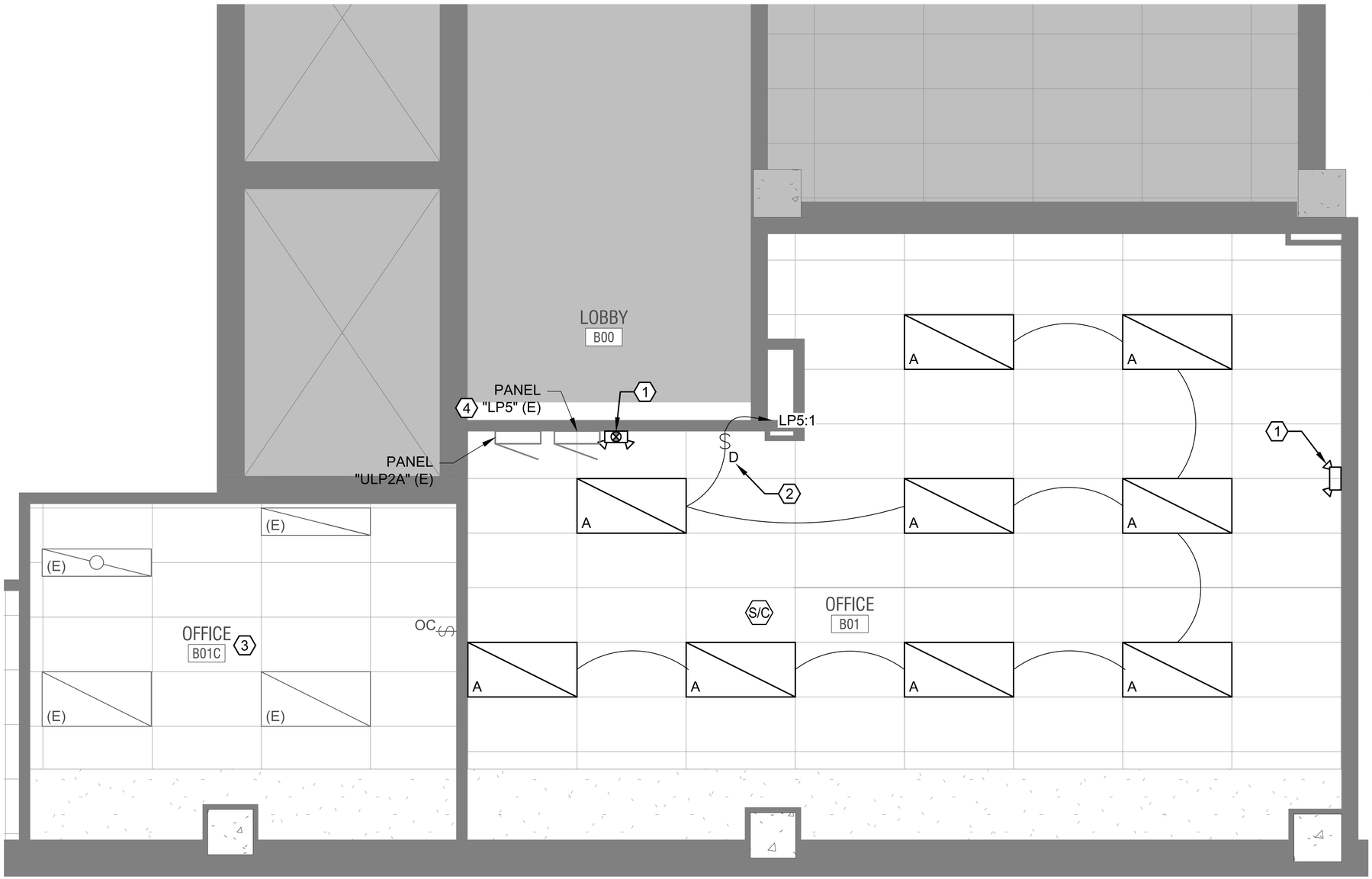

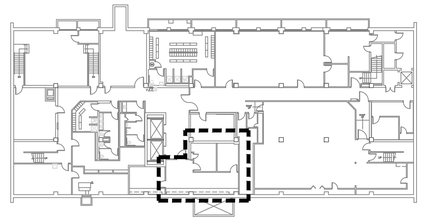

KEY MAP

GENERAL NOTES:

ALL EMERGENCY EGRESS LIGHTING (INCLUDING WALL PACKS AND EXIT SIGNS) SHALL BE CONNECTED TO THE NEAREST NON-SWITCHED LIGHTING CIRCUIT AND SHALL OPERATE ON INTERNAL BATTERY BACKUP UPON NORMAL POWER LOSS.

PROVIDE DOCUMENTATION SHOWING THE INSTALLED LIGHTING CONTROLS MEET PERFORMANCE CRITERIA OF SECTION C405 OF THE IECC AND SHALL BE PROVIDED TO THE OWNER WITHIN 90 DAYS FROM THE DATE OF RECEIVING THE CERTIFICATE OF OCCUPANCY.

SEE SHEET E-602 FOR ADDITIONAL INFORMATION ON LIGHTING FIXTURES.

THE SCOPE OF THIS WORK MODIFIES LESS THAN 50% OF THE LIGHTING, THEREFORE, IECC CALCULATION IS NOT REQUIRED.

SEE SHEET ED-701.C AND E-701.C FOR ADDITIONAL INFORMATION REGARDING PANEL AND SINGLE-LINE DIAGRAM.

NEW WORK KEY NOTES:

1. CONNECT NEW EMERGENCY LIGHT/EXIT FIXTURES TO THE NEAREST NON-SWITCHED LIGHTING CIRCUIT. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. CONTRACTOR TO INSTALL DIMMER SENSOR SWITCH. (LITHONIA SPODMA3X, OR APPROVED EQUIVALENT)
3. LIGHTING IN OFFICE B01C TO REMAIN AS IS. CONTRACTOR TO EVALUATED, CLEAN, RE-LAMP (IF APPLICABLE), RE-BALLAST (IF APPLICABLE0 AND RE-LENS IF NEEDED.
4. SEE SHEET E-602.B FOR ADDITIONS AND MODIFICATIONS TO EXISTING PANEL.

LIGHTING BASEMENT NEW WORK PLAN
SCALE: 1/2" = 1'-0"

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LIGHTING BASEMENT NEW WORK PLAN

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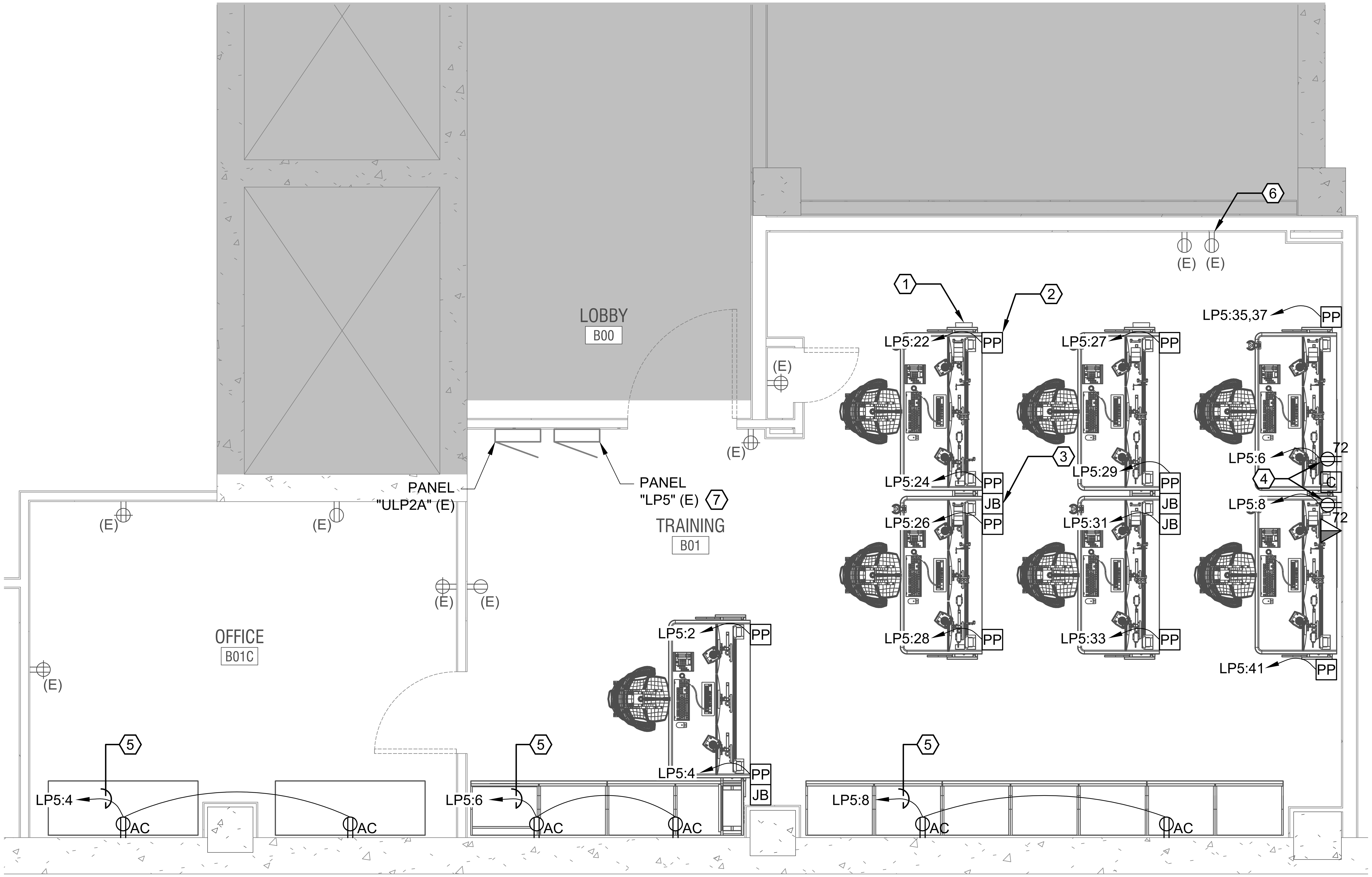
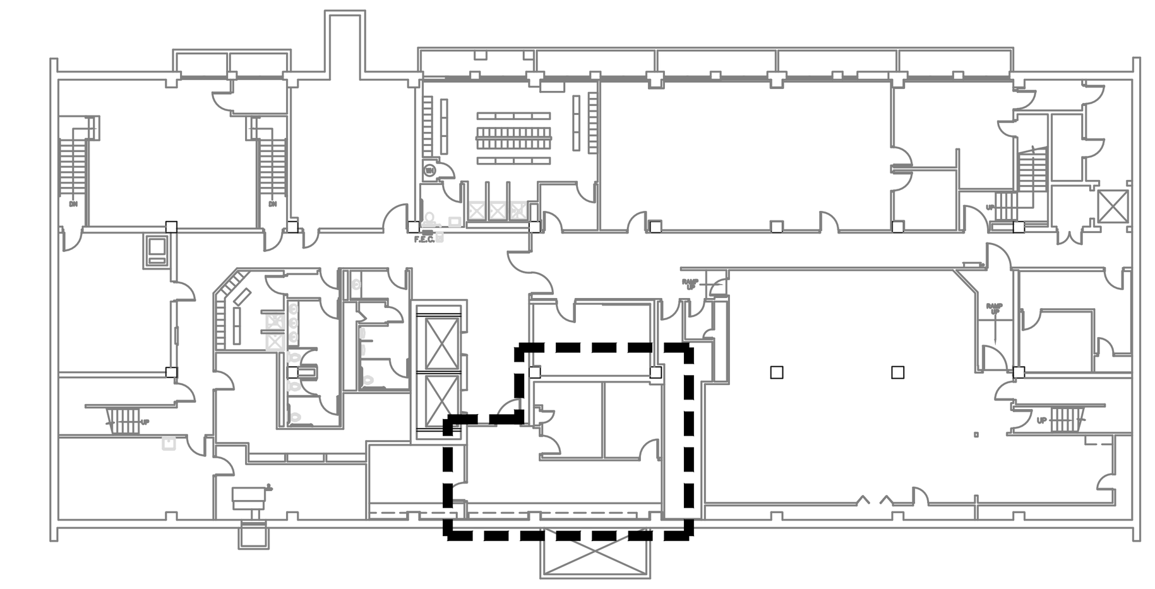


POWER BASEMENT NEW WORK PLAN

SCALE: 1/2" = 1'-0"



KEY MAP

IECC GENERAL NOTES:

FACILITY/TRAINING AREA IS DEEMED A CONSTANT OPERATING AREA AND THEREFORE IECC C405.11 IS NOT APPLICABLE.

ALL CIRCUITS SHOWN ON THIS SCOPE OF WORK HAS BEEN DESIGNED TO THE ENGINEERS BEST ABILITY FOR A VOLTAGE DROP TO NOT EXCEED 5%.

GENERAL NOTES:

ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS, CONNECTION TYPES, AND WIRING REQUIREMENTS OF ALL OWNER PROVIDED EQUIPMENT PRIOR TO ROUGH-IN. CONTRACTOR TO NOTIFY ENGINEER ON ANY DIFFERENCES UPON EQUIPMENT DELIVERY THAT DIFFER FROM THESE PLANS.

ALL PIPING PENETRATIONS THROUGH RATED ASSEMBLIES ARE TO BE SEALED AND PROTECTED BY FIRE RESISTANT CAULKING.

THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL INTERCONNECTION WIRING THAT IS IDENTIFIED ON THE VENDORS WIRING CONNECTION DIAGRAM REGARDLESS IF IT IS IDENTIFIED ON THIS SHEET OR IT IS NOT SHOWN. CONTRACTOR CAN NOTIFY ENGINEER OF ANY WIRING THAT MAY NEED TO BE SHOWN AND REQUIRED TO FOR INSPECTION PURPOSES. PROVIDE ALL WIRING AND CONNECTIONS IDENTIFIED ON THE VENDOR WIRING DIAGRAMS AND MAKE FINAL CONNECTIONS PER VENDOR REQUIREMENTS, RECOMMENDATIONS AND INSTRUCTIONS.

SEE SHEET ED-701.C AND E-701.C FOR ADDITIONAL INFORMATION REGARDING PANEL AND SINGLE-LINE DIAGRAM.

NEW WORK KEY NOTES:

1. VENDOR PROVIDED DISPATCH DESK. DESK WAS SPECIFIED TO HAVE SINGLE-POINT CONNECTIONS (QUANTITY UNKNOWN) AT THE INCOMING POWER POINT. CONTRACTOR TO VERIFY EXACT LOCATION AND TYPE OF CONNECTION WITH EQUIPMENT DELIVERED IN THE FIELD.
2. POWER POLE (HUBBEL#285 OR APPROVED EQUAL). LOCATIONS ON THIS DIAGRAM ARE FOR PLANNING PURPOSES ONLY. CONTRACTOR TO VERIFY WITH EQUIPMENT WHEN EQUIPMENT IS DELIVERED IN THE FIELD. DURING ROUGH-IN PROVIDE A 6-FOOT WHIP AT EACH POWER POLE FOR CONNECTION TO EQUIPMENT. PRIOR TO PROCUREMENT COLOR TO BE APPROVED BY OWNER AND/OR ARCHITECT. (TYPICAL OF 14 POLES)
3. PROVIDE TELE-POWER POLE (WIREMOLD#25DTP-4ACTDG) FOR COMMUNICATION CABLING. COORDINATE WITH EL PASO INFORMATION AND TECHNOLOGIES (E.P.I&T) PERSONNEL FOR FINAL DATA/COMM. FILL CALCULATIONS TO SIZE TELE-POWER-POLE PER SPECIFIC I.T. RECOMMENDATIONS. ALL COMMUNICATIONS CABLE FILL CALCULATIONS SHALL BE PERFORMED AND FOLLOWED AND CHECKED BY EL PASO INFRASTRUCTURE AND TECHNOLOGY DEPARTMENT (EPC I.T.) WITH ALL COMMUNICATION EQUIPMENT AND/OR ANCILLARY EQUIPMENT TO BE APPROVED BY EL PASO INFRASTRUCTURE AND TECHNOLOGY DEPARTMENT PRIOR TO EQUIPMENT BEING PROCURED AND/OR INSTALLATION. PRIOR TO PROCUREMENT COLOR TO BE APPROVED BY OWNER AND/OR ARCHITECT. (TYPICAL OF 4)
4. HEIGHT IS SHOWN FOR REFERENCE AND PLANNING PURPOSES ONLY. CONTRACTOR IS TO COORDINATE WITH OWNER/OPERATOR ON FINAL LOCATION AND HEIGHT OF MONITOR/TELEVISION. CONTRACTOR ALSO TO COORDINATE THE SIZE OF THE MONITOR/TELEVISION AND WHERE THE CONNECTIONS ARE LOCATED PRIOR TO ROUGH-IN. THE RECEPTACLES AS WELL AS THE SUPPORTING EQUIPMENT (I.E. CABLE, DATA, COAX, ETC...) IS TO BE CONCEALED AS MUCH AS POSSIBLE BEHIND THE MONITOR/TELEVISION.
5. UTILIZE EXISTING HOME-RUN BRANCH CIRCUITS FOR NEW POWER DISTRIBUTION ABOVE COUNTER.
6. ALL EXISTING CIRCUITS TO REMAIN ARE TO BE TRACED BACK TO SOURCE AND THE FACEPLATE OF EACH CIRCUIT IS TO BE LABELED WITH THE PANEL AND CIRCUIT NUMBER PER EL PASO COUNTY STANDARDS.
7. SEE SHEET E-602.B FOR ADDITIONS AND MODIFICATIONS TO THE EXISTING PANEL.

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POWER BASEMENT NEW WORK PLAN

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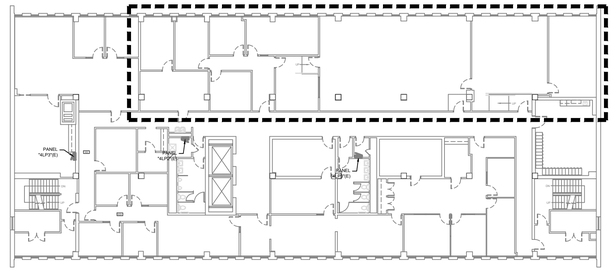
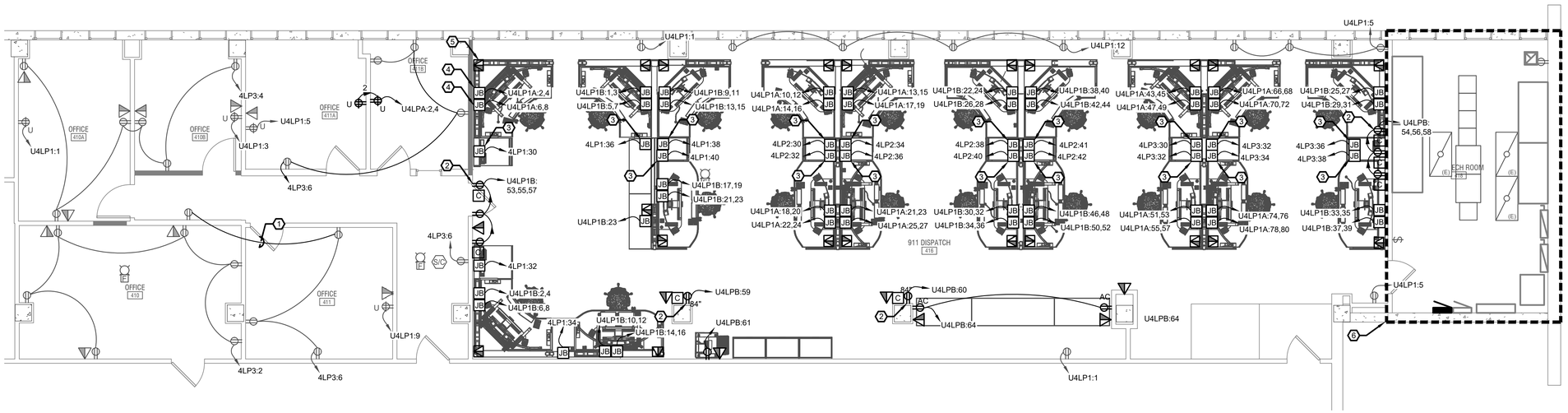


KEY MAP



IECC GENERAL NOTES:

FACILITY IS DESIGNATED AS 24 HOUR A DAY, 7-DAYS A WEEK OPERATION AND THEREFORE SECTION C405.11.1 OF THE IECC IS NOT APPLICABLE.

ALL BRANCH CIRCUITS ON THIS DRAWING HAVE BEEN DESIGNED TO THE BEST OF THE ENGINEERS/DESIGNERS ABILITY AND DOES NOT EXCEED THE 5% MAXIMUM VOLTAGE DROP.

GENERAL NOTES:

ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS, CONNECTION TYPES, AND WIRING REQUIREMENTS OF ALL OWNER PROVIDED EQUIPMENT PRIOR TO ROUGH-IN. CONTRACTOR TO NOTIFY ENGINEER ON ANY DIFFERENCES UPON EQUIPMENT DELIVERY THAT DIFFER FROM THESE PLANS.

ALL PIPING PENETRATIONS THROUGH RATED ASSEMBLIES ARE TO BE SEALED AND PROTECTED BY FIRE RESISTANT CAULKING.

THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL INTERCONNECTION WIRING THAT IS IDENTIFIED ON THE VENDORS WIRING CONNECTION DIAGRAM REGARDLESS IF IT IS IDENTIFIED ON THIS SHEET OR IT IS NOT SHOWN. CONTRACTOR CAN NOTIFY ENGINEER OF ANY WIRING THAT MAY NEED TO BE SHOWN AND REQUIRED TO FOR INSPECTION PURPOSES. PROVIDE ALL WIRING AND CONNECTIONS IDENTIFIED ON THE VENDOR WIRING DIAGRAMS AND MAKE FINAL CONNECTIONS PER VENDOR REQUIREMENTS, RECOMMENDATIONS AND INSTRUCTIONS.

SEE SHEET E-602.4 FOR LOAD SUMMARY ON EXISTING UPS SYSTEM.

SEE SHEET E-602.4 FOR LOAD SUMMARY ON EXISTING ELECTRICAL DISTRIBUTION SYSTEM.

SEE KEY MAP (THIS SHEET) FOR LOCATION OF EXISTING PANEL(S) "4LP1", "4LP2" AND "4LP3" IN RESPECTS TO THE AREA OF WORK.

NEW WORK KEY NOTES:

(1) EXTEND NEW BRANCH CIRCUIT AND CONNECT EXISTING RECEPTACLES.

(2) HEIGHT IS SHOWN FOR REFERENCE AND PLANNING PURPOSES ONLY. CONTRACTOR IS TO COORDINATE WITH OWNER/OPERATOR ON FINAL LOCATION AND HEIGHT OF MONITOR/TELEVISION. CONTRACTOR ALSO TO COORDINATE THE SIZE OF THE MONITOR/TELEVISION AND WHERE THE CONNECTIONS ARE LOCATED PRIOR TO ROUGH-IN. THE RECEPTACLES AS WELL AS THE SUPPORTING EQUIPMENT (I.E. CABLE, DATA, COAX, ETC...) IS TO BE CONCEALED AS MUCH AS POSSIBLE BEHIND THE MONITOR/TELEVISION.

(2) PROVIDE FLOOR BOX (LEGRAND EVOLUTION SERIES TWO-GANG FLOOR BOX) AT RAISED FLOOR. LOCATIONS OF JUNCTION BOX ON THIS DIAGRAM ARE FOR PLANNING PURPOSES ONLY. CONTRACTOR IS TO EVALUATE THE EQUIPMENT IT IS DELIVERED ON SITE AND COORDINATE WITH THE OWNER ON PREFERRED LOCATION FOR NON-USP RECEPTACLE LOCATION. LABEL FLOOR BOX WITH "NON-USP LOAD, MAXIMUM OF 1000W, AND PANEL AND CIRCUIT NUMBER PER EL PASO COUNTY STANDARDS.

(2) THE JUNCTION BOXES THAT ARE "GROUPED" ON THIS DIAGRAM ARE INTENDED FOR THE MAIN POWER FOR EACH DESK AND IT'S COMPONENTS. PROVIDE FLOOR BOX (LEGRAND EVOLUTION SERIES "FURNITURE FEED FLOOR BOX") AT RAISED FLOOR. LOCATIONS OF JUNCTION BOX ON THIS DIAGRAM ARE FOR PLANNING PURPOSES ONLY. CONTRACTOR IS TO EVALUATE THE EQUIPMENT IT IS DELIVERED ON SITE AND COORDINATE EACH POINT OF CONNECTION THAT IS PROVIDED BY THE DESK VENDOR. LABEL EACH FLOOR BOX WITH "UPS POWER", PANEL AND CIRCUIT NUMBER PER EL PASO COUNTY STANDARDS. (TYPICAL OF 18 SETS)

NEW WORK KEY NOTES (CONTINUED):

(5) PROVIDE FLOOR BOX (LEGRAND EVOLUTION SERIES FOUR/FIVE -GANG FLOOR BOX) AT RAISED FLOOR. VERIFY FLOOR BOX LISTED ON THIS NOTE IS APPROVED BY EL PASO COUNTY INFRASTRUCTURE AND TECHNOLOGY (EPIT) DEPARTMENT PRIOR TO PROCUREMENT OF ITEM. LOCATIONS OF JUNCTION BOX ON THIS DIAGRAM ARE FOR PLANNING PURPOSES ONLY. CONTRACTOR IS TO EVALUATE THE EQUIPMENT IT IS DELIVERED ON SITE AND COORDINATE WITH EPIT DEPARTMENT ON PREFERRED LOCATION FOR DATA/COMMUNICATIONS FLOOR BOX LOCATION. LABEL FLOOR BOX WITH COMMUNICATIONS DROP NUMBER PER EPIT STANDARDS. LOW VOLTAGE CABLING, INSTALLATION AND FINAL TERMINATION TO DESK AND/OR EQUIPMENT IS BY EPIT. (TYPICAL OF 20)

(6) SEE SHEET E-P-401 FOR ENLARGED PLAN AND ADDITIONAL INFORMATION FOR THE UPS ROOM.

POWER 4TH FL NEW WORK PLAN

SCALE: 3/16" = 1'-0"

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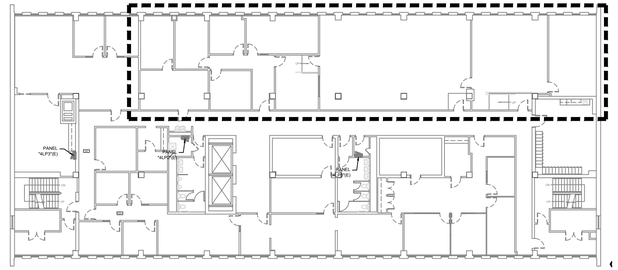
EL PASO COUNTY
SHERIFF'S OFFICE BUILDING
911 DISPATCH REMODEL
27 E. VERMIJO
COLORADO SPRINGS, CO 80903

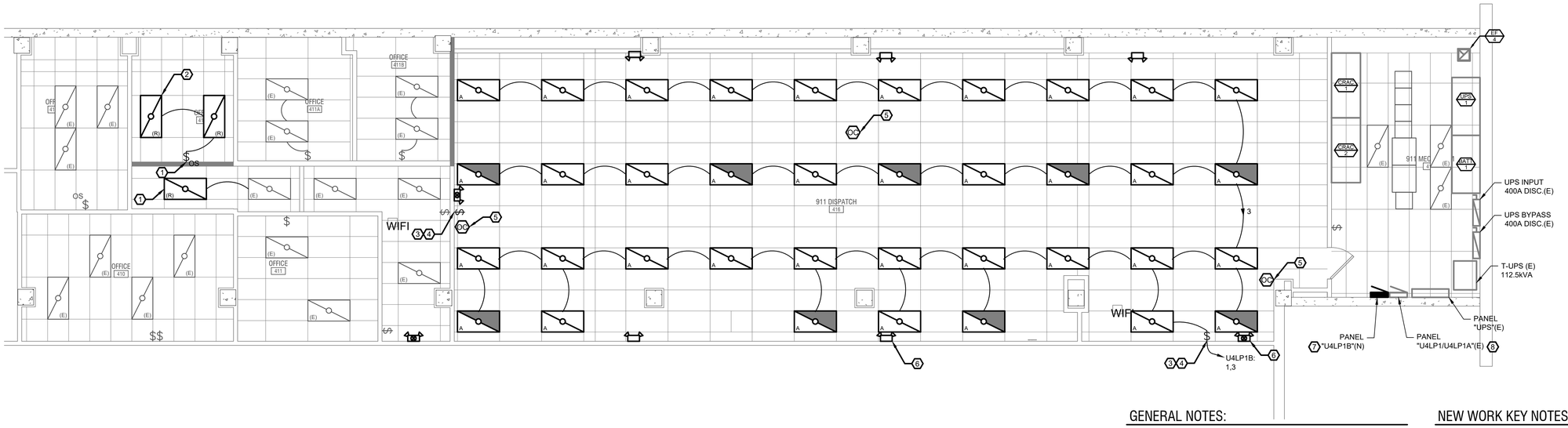
POWER 4TH FL
NEW WORK PLAN

DATE:	01/27/24
DRAWN BY:	NSC
CHECKED BY:	AIS
PROJECT NO:	2023-5136-01
SHEET NO:	E-P-104

PLOT DATE: 05/31/24 3:09 PM BY: AARON SPRINGFIELD PROJ. FILE: P:\Terrmel Design Group\2023-5136-01 – OTS Basmt & 1st fl\Electrical\OTS BsMT 4TH FL REMODEL – Electrical.dwg



KEY MAP



GENERAL NOTES:

ALL EMERGENCY EGRESS LIGHTING (INCLUDING WALL PACKS AND EXIT SIGNS) SHALL BE CONNECTED TO THE NEAREST NON-SWITCHED LIGHTING CIRCUIT AND SHALL OPERATE ON INTERNAL BATTERY BACKUP UPON NORMAL POWER LOSS.

PROVIDE DOCUMENTATION SHOWING THE INSTALLED LIGHTING CONTROLS MEET PERFORMANCE CRITERIA OF SECTION C405 OF THE IECC AND SHALL BE PROVIDED TO THE OWNER WITHIN 90 DAYS FROM THE DATE OF RECEIVING THE CERTIFICATE OF OCCUPANCY.

SEE SHEET E-602 FOR ADDITIONAL INFORMATION ON LIGHTING FIXTURES.

THE SCOPE OF THIS WORK MODIFIES LESS THAN 50% OF THE LIGHTING, THEREFORE, IECC CALCULATION IS NOT REQUIRED.

NEW WORK KEY NOTES:

1. CONNECT RELOCATED FIXTURE TO EXISTING SWITCH AND POWER LEG FROM EXISTING LIGHT FIXTURES IN HALL.
2. CONTRACTOR TO INSTALL RELOCATED FIXTURE AFTER TESTING, CLEANING AND RE-LAMPING. PROVIDE NEW POWER LEG AND SWITCH.
3. PROVIDE NEW SWITCH(ES) TO NEW LOCATION. PROVIDE NEW SWITCH LEG FOR NEW SWITCHING CONFIGURATION. UTILIZE AND RE-USE EXISTING POWER LEG OF FIXTURES.
4. PROVIDE MAIN AND SUB LIGHTING CONTROL PANEL(S). MAIN LIGHTING CONTROL PANEL (WALL MOUNTED) SHALL BE A MAXIMUM OF FOUR (4) PROGRAMMABLE ZONES AND EACH ZONE SHALL HAVE DIMMING CAPABILITY (DOWN TO 1%), WITH FADE AND TEMPORARY SETTINGS AND WILL BE LOCATED AT THE EAST DOOR AND THE SUB PANEL WILL BE LOCATED AT THE WEST DOOR. CONTROLLER SHALL BE SIMILAR OR EQUAL TO THE LUTRON GRAFIKintegrale 4-ZONE LIGHTING CONTROL SYSTEM.
5. CONTRACTOR TO RELOCATE EXISTING OCCUPANCY SENSOR SWITCH TO NEW LOCATION. CONTRACTOR TO MOUNT THE EXISTING SENSOR PER THE MANUFACTURERS INSTRUCTIONS AND RECOMMENDATION FOR MAXIMUM COVERAGE. INSTALL AN ADDITIONAL OCCUPANCY SENSOR ON THE SOUTH SIDE OF THE ROOM IS ADDITIONAL COVERAGE IS REQUIRED. NEW SENSOR SHALL BE SAME MAKE/MODEL AS THE EXISTING.
6. CONNECT NEW EMERGENCY LIGHT/EXIT FIXTURES TO THE NEAREST NON-SWITCHED LIGHTING CIRCUIT. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION AND INSTRUCTIONS.
7. SEE SHEET E-602.4 FOR SPECIFICATIONS AND NEW PANEL SCHEDULE AND CIRCUIT DESIGNATION(S).
8. SEE SHEET E-602.4 FOR ADDITIONS AND MODIFICATIONS OF EXISTING PANEL AND CIRCUIT(S).

LIGHTING 4TH FL NEW WORK PLAN

SCALE: 3/16" = 1'-0"

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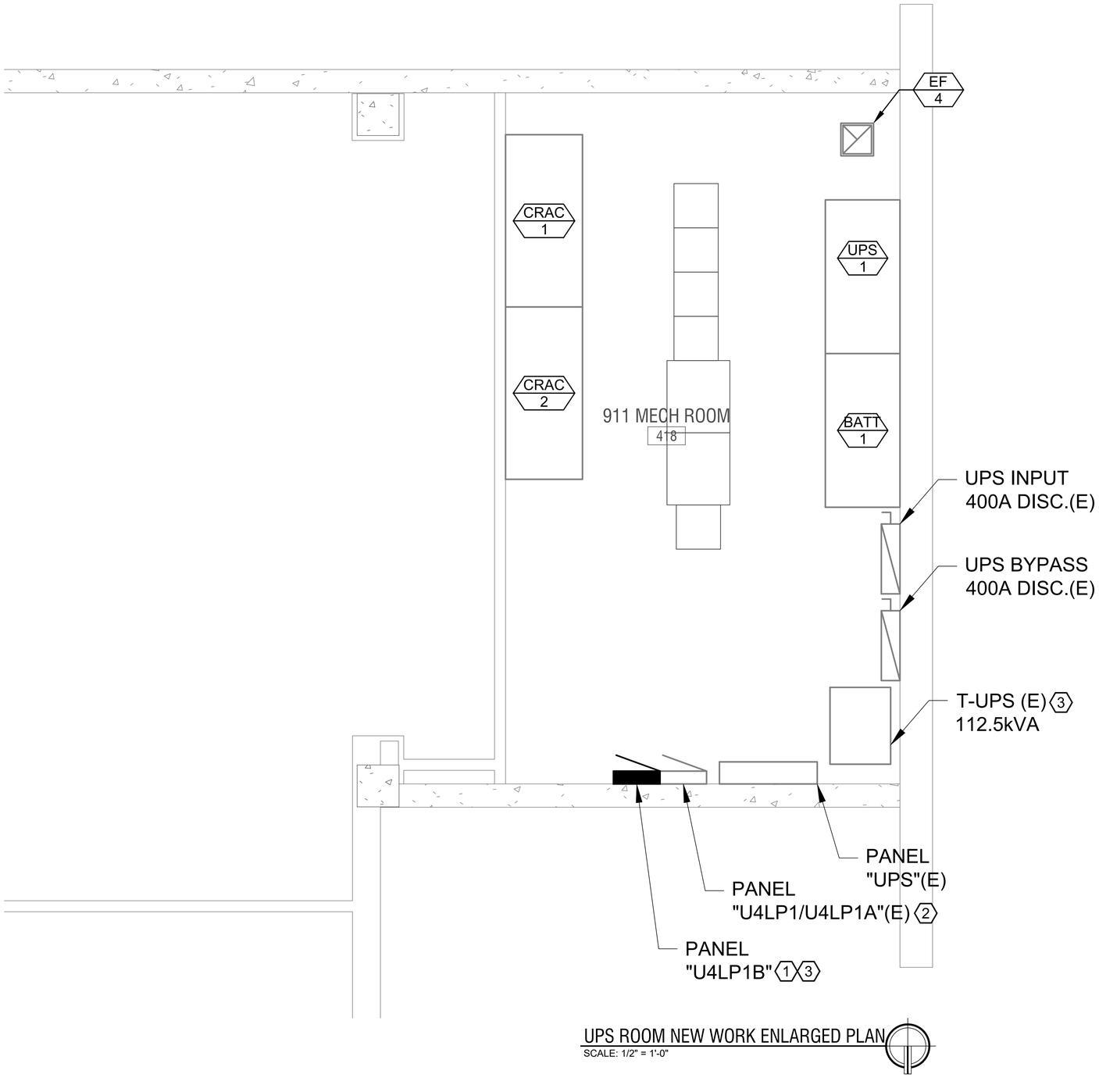
LIGHTING 4TH FL
NEW WORK PLAN

DATE: 01/27/24
DRAWN BY: NSC
CHECKED BY: AIS
PROJECT NO:2023-5136-01
SHEET NO:
E-L-104

PLOT DATE: 05/31/24 3:28 PM BY: AARON SPRINGFIELD PROJ. FILE: P:\Tremmel Design Group\2023-5136-01 – OTS Basement & 1st fl\Electrical\OTS BMNT 4TH FL REMODEL– Electrical.dwg



UPS ROOM NEW WORK ENLARGED PLAN

SCALE: 1/2" = 1'-0"

IECC GENERAL NOTES:

FACILITY IS DESIGNATED AS 24 HOUR A DAY, 7-DAYS A WEEK OPERATION AND THEREFORE SECTION C405.11.1 OF THE IECC IS NOT APPLICABLE.

ALL BRANCH CIRCUITS ON THIS DRAWING HAVE BEEN DESIGNED TO THE BEST OF THE ENGINEERS/DESIGNERS ABILITY AND DOES NOT EXCEED THE 5% MAXIMUM VOLTAGE DROP.

GENERAL NOTES:

ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS, CONNECTION TYPES, AND WIRING REQUIREMENTS OF ALL OWNER PROVIDED EQUIPMENT PRIOR TO ROUGH-IN. CONTRACTOR TO NOTIFY ENGINEER ON ANY DIFFERENCES UPON EQUIPMENT DELIVERY THAT DIFFER FROM THESE PLANS.

ALL PIPING PENETRATIONS THROUGH RATED ASSEMBLIES ARE TO BE SEALED AND PROTECTED BY FIRE RESISTANT CAULKING.

THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL INTERCONNECTION WIRING THAT IS IDENTIFIED ON THE VENDORS WIRING CONNECTION DIAGRAM REGARDLESS IF IT IS IDENTIFIED ON THIS SHEET OR IT IS NOT SHOWN. CONTRACTOR CAN NOTIFY ENGINEER OF ANY WIRING THAT MAY NEED TO BE SHOWN AND REQUIRED TO FOR INSPECTION PURPOSES. PROVIDE ALL WIRING AND CONNECTIONS IDENTIFIED ON THE VENDOR WIRING DIAGRAMS AND MAKE FINAL CONNECTIONS PER VENDOR REQUIREMENTS, RECOMMENDATIONS AND INSTRUCTIONS.

SEE SHEET E-602.4 FOR LOAD SUMMARY ON EXISTING UPS SYSTEM.

SEE SHEET E-602.4 FOR LOAD SUMMARY ON EXISTING ELECTRICAL DISTRIBUTION SYSTEM.

NEW WORK KEY NOTES:

1. SEE SHEET E-602.4 FOR SPECIFICATIONS AND SCHEDULE FOR NEW PANEL.
2. SEE SHEET E-602.4 FOR ADDITIONS AND MODIFICATIONS OF EXISTING PANEL.
3. NEW PANEL "U4LP1B" IS TO BE NO MORE THAN 10' FROM TRANSFORMER AND OVER-CURRENT PROTECTION SHOWN ON THIS DRAWING PER NEC TAP RULE. NOTIFY ENGINEER IMMEDIATELY IF FIELD CONDITIONS AND FIELD MEASUREMENTS OF CABLE AND CONDUIT EXCEED 10' MAXIMUM. PER DRAWING AND DESIGN LENGTH PANEL APPROACHES THE 10' MAXIMUM.

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UPS ROOM NEW WORK ENLARGED PLAN

DATE: 01/27/24
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SHEET NO:
E-P-401

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LED LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	MFR	MODEL NUMBER	LAMP TYPE	VOLTS	COLOR TEMP. (K)	LUMENS	TOTAL WATTS	MOUNTING TYPE	MOUNTING HEIGHT	NOTES
A	2X4 TROFFER	LITHONIA LIGHTING	STAKS 2X4 ALO6 SWW7	LED	MVOLT	4000K	4563	34	RECESSED	EXISTING CEILING	4
	LED EXIT LIGHT W/ BATTERY BACKUP	LITHONIA LIGHTING	EXRG - EL - M6	LED	120V	N/A	N/A	1	UNIVERSAL		1, 2
	LED EMERGENCY COMBO W/ BATTERY BACKUP	LITHONIA LIGHTING	ELM4L	LED	120V	N/A	640	11	WALL		1, 2
	LED EMERGENCY/ EXIT COMBO W/ BATTERY BACKUP	LITHONIA LIGHTING	LHQM- LED	LED	120V	N/A	N/A	4.3	WALL		1,2

NOTES:

1. ALL EQUIPMENT LISTED ON THIS SCHEDULE MAY BE SUBSTITUTED WITH ENGINEERING APPROVED EQUAL.
2. CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS FOR FINAL CEILING TYPES AND HEIGHTS.
3. COLOR TEMPERATURE AND LUMENS BASED ON FIXTURE'S SWITCHABLE MEDIUM LUMEN OUTPUT.

PANEL SCHEDULE - "LP5"

R/E/N	EXISTING	MAIN CIRCUIT	225A	AMPS
TYPE	NEMA 1	MCB/PANEL RATING	10000	AIC
MOUNT	FLUSH	MAIN LUGS		AMPS
PHASE	3	MAIN SHUNT TRIP		
WIRE	4W	BRANCH RATING		AIC
L-N	120	BRANCH TYPE		
L-L	208	BUS MATERIAL		
RATED	FULLY	FEED THRU LUGS		
FEED FROM	PANEL "MDP"	MISCELLANEOUS		

NOTES	WIRE SIZE	CKT. NO.	ITEM/DESCRIPTION	POLES	BREAKER SIZE	LOAD VA/PHASE	PHASE LEG	LOAD VA/PHASE	BREAKER SIZE	POLES	ITEM/DESCRIPTION	CKT. NO.	WIRE SIZE	NOTES
		1	LIGHTING	1	20	900	A	600	20	1	INSTRUCTOR DESK	2	#12	6
4		3	FIRE DAMPER	1	20	500	B	600	20	1	INSTRUCTOR DESK	4	#12	6
4		5	RN 018, 019, 020	1	20	1000	C	1000	20	1	TV RECPT	6	#12	6
6	#12	7	B01C AC RECPT	1	20	360	A	1000	20	1	TV RECPT	8	#12	6
4		9	SPARE CEILING BOX	1	20	180	B	0	20	1	SPARE-	10		
4		11	SPARE CEILING BOX	1	20	180	C	720	20	1	DUPLEX 017	12		4
6	#12	13	B01 AC RECPT	1	20	360	A	720	20	1	DUPLEX 018	14		4
6	#12	15	B01 AC RECPT	1	20	360	B	900	20	1	SLICER 4-PLEX	16		4
4		17	HP 5SI PRINTER - EAST	1	20	500	C	900	20	1	SLICER 4-PLEX	18		4
4		19	HP 5SI PRINTER - NEESE	1	20	500	A	0	20	1	SPARE RECPT BOX	20		4
4		21	HP 5SI PRINTER - NO	1	20	500	B	1200	20	1	TRAINEE 1 DESK	22	#12	6
4		23	DUPLEX RM 017 018	1	20	720	C	1200	20	1	TRAINEE 1 DESK	24	#12	6
4		25	ATM RECEPTACLE	1	20	1000	A	1200	20	1	TRAINEE 2 DESK	26	#12	6
6	#12	27	TRAINEE 3 DESK	1	20	1200	B	1200	20	1	TRAINEE 2 DESK	28	#12	6
6	#12	29	TRAINEE 3 DESK	1	20	1200	C	0	20	1	SPARE	30		
6	#12	31	TRAINEE 4 DESK	1	20	1200	A	0	30	2	SPARE	32		
6	#12	33	TRAINEE 4 DESK	1	20	1200	B	0				34		
6	#12	35	TRAINEE 5 DESK	1	20	1200	C	0		1	SPACE	36		
6	#12	37	TRAINEE 5 DESK	1	20	1200	A	0		1	SPACE	38		
6	#12	39	TRAINEE 6 DESK	1	20	1200	B	0		1	SPACE	40		
6	#12	41	TRAINEE 6 DESK	1	20	1200	C	0		1	SPACE	42		

NOTES		CONNECTED LOAD			LOAD SUMMARY				
1	BREAKERS TO BE AFCI TYPE	TOTAL (VA) PHASE A	TOTAL (VA) PHASE B	TOTAL (VA) PHASE C	TYPE OF LOAD	DEMAND FACTOR	VA		DEMAND
2	BREAKERS TO BE GFCI TYPE				LIGHTING (L)	125%	900		1125
3	BREAKER TO BE HARC TYPE	9040	9040	9820	TOTAL RECEPTACLES (R)		26500		
4	EXISTING CIRCUIT TO REMAIN	45%	45%	49%	<=10KVA RECEPTACLES	100%	10000		10000
5	RECONNECT EXISTING CIRCUIT	CONNECTED LOAD SUMMARY			>10KVA RECEPTACLES	50%	16500		8250
6	PROVIDE NEW BREAKER AS INDICATED. BREAKER SHALL BE COMPATIBLE WITH EXISTING PANEL.	TOTAL (VA)		27900	MOTORS (M)	100%	0		0
7		TOTAL AMPERAGE		78	LARGEST MOTOR	125%	500		625
8		DEMAND LOAD			ELECTRIC HEAT (H)	100%	0		0
9		TOTAL (VA)		20000	KITCHEN (K)	100%	0		0
10		TOTAL AMPERAGE		56	NON-CONTINOUS (O)	100%	0		0

LOAD SUMMARY

EXISTING LOAD ON "LP5"	=9716VA (27A @ 208V, 3-PHASE)
LOAD ADDED TO "LP5"	=10435VA (29A @ 208V, 3-PHASE)
NEW TOTAL CONNECTED LOAD "LP5"	=20151VA (56A @ 208V, 3-PHASE)

PER THE SCOPE OF WORK WITHIN THE DOCUMENT, THE NEW TOTAL PROPOSED CONNECTED LOAD ON THE EXISTING PANEL "LP5" IS 56A. THE EXISTING PANEL, EXISTIN FEEDEERS AND EXISTING OCP FOR RATED FOR 100A, 100A AND 100A RESPECTIVELY

SEE SHEET(S) ED-701.A THROUGH ED-701.C FOR COMPLETE SINGLE-LINE DIAGRAM

PANEL SCHEDULE - "4LP1"

R/E/N	EXISTING	MAIN CIRCUIT	N/A	AMPS
TYPE	NEMA 1	MCB/PANEL RATING	10000	AIC
MOUNT	SURFACE	MAIN LUGS	225A	AMPS
PHASE	3	MAIN SHUNT TRIP	NO	
WIRE	4W	BRANCH RATING	10000	AIC
L-N	120	BRANCH TYPE	BOLT ON	
L-L	208	BUS MATERIAL	CU	
RATED	FULLY	FEED THRU LUGS	NO	
FEED FROM	PANEL MDP	MISCELLANEOUS		

NOTES	WIRE SIZE	CKT. NO.	ITEM/DESCRIPTION	POLES	BREAKER SIZE	LOAD VA/PHASE	PHASE LEG	LOAD VA/PHASE	BREAKER SIZE	POLES	ITEM/DESCRIPTION	CKT. NO.	WIRE SIZE	NOTES
4		1	RM. 401 AND 402 REC.	1	20	720	A	908	20	1	ELEV. LOBBY, RRS	2		4
4		3	RM. 402 REC.	1	20	720	B	1410	20	1	INTERNAL AFAIRS INT. RM PRINTER	4		4
4		5	RM. 402 REC.	1	20	540	C	624	20	1	WEST STAIRS, MECH, HALL RM 405, 420	6		4
4		7	RM 402B	1	20	720	A	1500	20	1	OFFICES 407, 407A, 407B, 407C	8		4
4		9	RM. 402C REC.	1	20	720	B	1128	20	1	OFFICES 410, 410A, 410B, 411A	10		4
4		11	CORR 403, MECH 404, AND HALL 405E REC.	1	20	900	C	1316	20	1	OFFICES 411, 411B, 411C	12		4
4		13	RM 402E REC.	1	20	720	A	900	20	2	IDF REC. IDF RM 415	14		4
4		15	RM 402D REC.	1	20	720	B	900				16		
4		17	PRINTER/COPY/FAX RM 408	1	20	800	C	400	20	1	LCP4	18		4
4		19	COPY/FAX RM. 408 REC.	1	20	540	A	0	20	1	SPARE	20		
4		21	RM 406 REC.	1	20	720	B	0	20	1	SPARE	22		
4		23	HALL 405 DF	1	20	800	C	0	20	1	SPARE	24		
4		25	DDC PANEL	1	20	200	A	0	20	1	SPARE	26		
		27	SPARE	1	20	0	B	0	20	1	SPARE	28		
4		29	FACP	1	20	400	C	1000	20	1	RM. 416 NON-UPS FL REC.	30	#12	5
		31	SPARE	1	20	0	A	1000	20	1	RM. 416 NON-UPS FL REC.	32	#12	5
		33	SPARE	1	20	0	B	1000	20	1	RM. 416 NON-UPS FL REC.	34	#12	5
		35	SPARE	1	20	0	C	1000	20	1	RM. 416 NON-UPS FL REC.	36	#12	5
		37	SPARE	1	20	0	A	1000	20	1	RM. 416 NON-UPS FL REC.	38	#12	5
		39	SPARE	1	20	0	B	1000	20	1	RM. 416 NON-UPS FL REC.	40	#12	5
		41	SPARE	1	20	0	C	0	20	1	SPARE	42		

NOTES		CONNECTED LOAD			LOAD SUMMARY				
1	BREAKERS TO BE AFCI TYPE	TOTAL (VA) PHASE A	TOTAL (VA) PHASE B	TOTAL (VA) PHASE C	TYPE OF LOAD	DEMAND FACTOR	VA		DEMAND
2	BREAKERS TO BE GFCI TYPE				LIGHTING (L)	125%	6886		8607.5
3	BREAKER TO BE HARC TYPE	8208	8318	7780	TOTAL RECEPTACLES (R)		8620		
4	EXISTING CIRCUIT TO REMAIN	32%	32%	30%	<=10KVA RECEPTACLES	100%	8620		8620
5	UTILIZE EXISTING BREAKER FOR NEW CIRCUIT	CONNECTED LOAD SUMMARY			>10KVA RECEPTACLES	50%	0		0
6	PROVIDE NEW BREAKER AS INDICATED. BREAKER SHALL BE COMPATIBLE WITH EXISTING PANEL.	TOTAL (VA)		24306	MOTORS (M)	100%	0		0
7		TOTAL AMPERAGE		68	LARGEST MOTOR	125%	0		0
8		DEMAND LOAD			ELECTRIC HEAT (H)	100%	6000		6000
9		TOTAL (VA)		26028	KITCHEN (K)	100%	0		0
10		TOTAL AMPERAGE		73	NON-CONTINOUS (O)	100%	2800		2800

LOAD SUMMARY

EXISTING PANEL "4LP1"	=20151VA (56A @ 208V, 1-PHASE)
LOAD ADDED TO PANEL "4LP1"	=6117VA (17A @ 208V, 3-PHASE)
TOTAL LOAD ON "4LP1"	=26268VA (73A @ 208V, 3-PHASE)

AFTER THE SCOPE OF WORK SHOWN IN THIS DOCUMENT, THE NEW TOTAL PROPSOAED CONNECTED LOAD ON THE EXISTING PANEL "4LP1" IS 73A. THE EXISTING PANEL AND EXISTING FEEDERS ARE RATED FOR 225A, 130A AND 125A RESPECTIVELY.

SCHEDULE(S) AND LOAD SUMMARY FOR BASEMENT

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EL PASO COUNTY

EL PASO COUNTY
SHERIFF'S OFFICE BUILDING
911 DISPATCH REMODEL
27 E. VERMIJO
COLORADO SPRINGS, CO 80903

PANEL SCHEDULES AND CALCULATIONS BASEMENT

DATE: 01/27/24
DRAWN BY: NSC
CHECKED BY: AIS
PROJECT NO: 2023-5136-01
SHEET NO:
E-602.B

PANEL SCHEDULE - "4LP1"

R/E/N	**EXISTING**	MAIN CIRCUIT	**N/A** AMPS
TYPE	**NEMA 1**	MCB/PANEL RATING	**10000** AIC
MOUNT	**SURFACE**	MAIN LUGS	**225A** AMPS
PHASE	**3**	MAIN SHUNT TRIP	**NO**
WIRE	**4W**	BRANCH RATING	**10000** AIC
L-N	**120**	BRANCH TYPE	**BOLT ON**
L-L	**208**	BUS MATERIAL	**CU**
RATED	**FULLY**	FEED THRU LUGS	**NO**
FEED FROM	**PANEL MDP**	MISCELLANEOUS	

NOTES	WIRE SIZE	CKT. NO.	ITEM/DESCRIPTION	POLES	BREAKER SIZE	LOAD VA/PHASE	PHASE LEG	LOAD VA/PHASE	BREAKER SIZE	POLES	ITEM/DESCRIPTION	CKT. NO.	WIRE SIZE	NOTES
4		1	RM. 401 AND 402 REC.	1	20	720	A	908	20	1	ELEV. LOBBY, RRS	2		4
4		3	RM. 402 REC.	1	20	720	B	1410	20	1	INTERNAL AFAIRS INT. RM PRINTER	4		4
4		5	RM. 402 REC.	1	20	540	C	624	20	1	WEST STAIRS, MECH, HALL RM 405, 420	6		4
4		7	RM 402B	1	20	720	A	1500	20	1	OFFICES 407, 407A, 407B, 407C	8		4
4		9	RM. 402C REC.	1	20	720	B	1128	20	1	OFFICES 410, 410A, 410B, 411A	10		4
4		11	CORR 403, MECH 404, AND HALL 405E REC.	1	20	900	C	1316	20	1	OFFICES 411, 411B, 411C	12		4
4		13	RM 402E REC.	1	20	720	A	900	20	2	IDF REC. IDF RM 415	14		4
4		15	RM 402D REC.	1	20	720	B	900				16		
4		17	PRINTER/COPY/FAX RM 408	1	20	800	C	400	20	1	LCP4	18		4
4		19	COPY/FAX RM. 408 REC.	1	20	540	A	0	20	1	SPARE	20		
4		21	RM 406 REC.	1	20	720	B	0	20	1	SPARE	22		
4		23	HALL 405 DF	1	20	800	C	0	20	1	SPARE	24		
4		25	DDC PANEL	1	20	200	A	0	20	1	SPARE	26		
		27	SPARE	1	20	0	B	0	20	1	SPARE	28		
4		29	FACP	1	20	400	C	1000	20	1	RM. 416 NON-UPS FL REC.	30	#12	5
		31	SPARE	1	20	0	A	1000	20	1	RM. 416 NON-UPS FL REC.	32	#12	5
		33	SPARE	1	20	0	B	1000	20	1	RM. 416 NON-UPS FL REC.	34	#12	5
		35	SPARE	1	20	0	C	1000	20	1	RM. 416 NON-UPS FL REC.	36	#12	5
		37	SPARE	1	20	0	A	1000	20	1	RM. 416 NON-UPS FL REC.	38	#12	5
		39	SPARE	1	20	0	B	1000	20	1	RM. 416 NON-UPS FL REC.	40	#12	5
		41	SPARE	1	20	0	C	0	20	1	SPARE	42		

NOTES		CONNECTED LOAD			LOAD SUMMARY			
		TOTAL (VA) PHASE A	TOTAL (VA) PHASE B	TOTAL (VA) PHASE C	TYPE OF LOAD	DEMAND FACTOR	VA	DEMAND
1	BREAKERS TO BE AFCI TYPE				LIGHTING (L)	125%	6886	8607.5
2	BREAKERS TO BE GFCI TYPE	**8208**	**8318**	**7780**	TOTAL RECEPTACLES (R)		8620	
3	BREAKER TO BE HARC TYPE	32%	32%	30%	<=10KVA RECEPTACLES	100%	8620	8620
4	EXISTING CIRCUIT TO REMAIN	**CONNECTED LOAD SUMMARY**			>10KVA RECEPTACLES	50%	0	0
5	UTILIZE EXISTING BREAKER FOR NEW CIRCUIT	TOTAL (VA)	24306		MOTORS (M)	100%	0	0
6	PROVIDE NEW BREAKER AS INDICATED. BREAKER SHALL BE COMPATIBLE WITH EXISTING PANEL.	TOTAL AMPERAGE	68		LARGEST MOTOR	125%	0	0
7		**DEMAND LOAD**			ELECTRIC HEAT (H)	100%	6000	6000
8		**TOTAL (VA)**	**26028**		KITCHEN (K)	100%	0	0
9		**TOTAL AMPERAGE**	**73**		NON-CONTINOUS (O)	100%	2800	2800
10								

LOAD SUMMARY

EXISTING PANEL "4LP1"	=20151VA (56A @ 208V, 1-PHASE)
LOAD ADDED TO PANEL "4LP1"	=6117VA (17A @ 208V, 3-PHASE)
TOTAL LOAD ON "4LP1"	=26268VA (73A @ 208V, 3-PHASE)

AFTER THE SCOPE OF WORK SHOWN IN THIS DOCUMENT, THE NEW TOTAL PROPSOAED CONNECTED LOAD ON THE EXISTING PANEL "4LP1" IS 73A. THE EXISTING PANEL AND EXISTING FEEDERS ARE RATED FOR 225A, 130A AND 125A RESPECTIVELY.

PANEL SCHEDULE - "4LP2"

R/E/N	**EXISTING**	MAIN CIRCUIT	**N/A** AMPS
TYPE	**NEMA 1**	MCB/PANEL RATING	**10000** AIC
MOUNT	**SURFACE**	MAIN LUGS	**225A** AMPS
PHASE	**3**	MAIN SHUNT TRIP	**NO**
WIRE	**4W**	BRANCH RATING	**10000** AIC
L-N	**120**	BRANCH TYPE	**BOLT ON**
L-L	**208**	BUS MATERIAL	**CU**
RATED	**FULLY**	FEED THRU LUGS	**NO**
FEED FROM	**PANEL MDP**	MISCELLANEOUS	

NOTES	WIRE SIZE	CKT. NO.	ITEM/DESCRIPTION	POLES	BREAKER SIZE	LOAD VA/PHASE	PHASE LEG	LOAD VA/PHASE	BREAKER SIZE	POLES	ITEM/DESCRIPTION	CKT. NO.	WIRE SIZE	NOTES
4		1	HALL 420 REC.	1	20	540	A	600	20	1	BREAK RM 419 LTS	2		4
4		3	BACKGROUND INTERVIEW 412 REC.	1	20	720	B	1330	20	1	RM 421,421A,421G,421,433H LTS	4		4
4		5	BACKGROUND INTERVIEW 413 REC.	1	20	900	C	1125	20	1	RM. 412,413, W.RR LTS	6		4
4		7	VOL. COLLER 421C REC.	1	20	720	A	1150	20	1	OFFICES 421DM 421E,421F LTS	8		4
4		9	ADMIN 421D - REC.	1	20	900	B	200	20	1	SPARE	10		
4		11	COMMANDER 421E, LIEUTENANT 421F	1	20	900	C	90	20	1	SPARE	12		
4		13	VOLUNTEER COORD 421G - REC.	1	20	540	A	0	20	1	SPARE	14		
4		15	VOLUNTEER 433H - REC	1	20	720	B	0	20	1	SPARE	16		
4		17	WORK ROOM 421A - REC	1	20	720	C	0	20	1	SPARE	18		
4		19	WORK RM 421A - PRINTER	1	20	800	A	0	20	1	SPARE	20		
4		21	CONFERENCE 421B - REC.	1	20	900	B	0	20	1	SPARE	22		
4		23	CORR 422, MECH 423, HALL 420 REC.	1	20	900	C	0	20	1	SPARE	24		
4		25	BREAK RM & BRIEFING 49 REC.	1	20	720	A	0	20	1	SPARE	26		
4		27	BRK RM & BREIEFING RM 419 VEN	1	20	1000	B	0	20	1	SPARE	28		
4		29	BREAK RM & BRIEFING 419 FRDG	1	20	1000	C	1000	20	1	RM. 416 NON-UPS FL REC.	30	#12	5
4		31	BREAK RM & BRIEFING 419 FRDG	1	20	1000	A	1000	20	1	RM. 416 NON-UPS FL REC.	32	#12	5
4		33	BREAK RM & BRIEFING 419 COFFE	1	20	1000	B	1000	20	1	RM. 416 NON-UPS FL REC.	34	#12	5
4		35	BREAK RM & BRIEFING 419 DISP	1	20	1127	C	1000	20	1	RM. 416 NON-UPS FL REC.	36	#12	5
		37	SPARE	1	20	0	A	1000	20	1	RM. 416 NON-UPS FL REC.	38	#12	5
		39	SPARE	1	20	0	B	1000	20	1	RM. 416 NON-UPS FL REC.	40	#12	5
		41	SPARE	1	20	0	C	0	20	1	SPARE	42		

NOTES		CONNECTED LOAD			LOAD SUMMARY			
		TOTAL (VA) PHASE A	TOTAL (VA) PHASE B	TOTAL (VA) PHASE C	TYPE OF LOAD	DEMAND FACTOR	VA	DEMAND
1	BREAKERS TO BE AFCI TYPE				LIGHTING (L)	125%	4205	5256.25
2	BREAKERS TO BE GFCI TYPE	**8070**	**8770**	**8762**	TOTAL RECEPTACLES (R)		9980	
3	BREAKER TO BE HARC TYPE	30%	33%	33%	<=10KVA RECEPTACLES	100%	9980	9980
4	EXISTING CIRCUIT TO REMAIN	**CONNECTED LOAD SUMMARY**			>10KVA RECEPTACLES	50%	0	0
5	UTILIZE EXISTING BREAKER FOR NEW CIRCUIT	TOTAL (VA)	25602		MOTORS (M)	100%	0	0
6	PROVIDE NEW BREAKER AS INDICATED. BREAKER SHALL BE COMPATIBLE WITH EXISTING PANEL.	TOTAL AMPERAGE	72		LARGEST MOTOR	125%	1127	1408.75
7		**DEMAND LOAD**			ELECTRIC HEAT (H)	100%	6000	6000
8		**TOTAL (VA)**	**26645**		KITCHEN (K)	100%	3000	3000
9		**TOTAL AMPERAGE**	**74**		NON-CONTINOUS (O)	100%	1000	1000
10								

LOAD SUMMARY

EXISTING PANEL "4LP2"	=20870VA (58A @ 208V, 1-PHASE)
LOAD ADDED TO PANEL "4LP2"	=6117VA (17A @ 208V, 3-PHASE)
TOTAL LOAD ON "4LP2"	=26628VA (74A @ 208V, 3-PHASE)

AFTER THE SCOPE OF WORK SHOWN IN THIS DOCUMENT, THE NEW TOTAL PROPSOAED CONNECTED LOAD ON THE EXISTING PANEL "4LP2" IS 74A. THE EXISTING PANEL AND EXISTING FEEDERS ARE RATED FOR 225A, 130A AND 125A RESPECTIVELY.

LED LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	MFR	MODEL NUMBER	LAMP TYPE	VOLTS	COLOR TEMP. (K)	LUMENS	TOTAL WATTS	MOUNTING TYPE	MOUNTING HEIGHT	NOTES
A	2X4 TROFFER	LITHONIA LIGHTING	STAKS 2X4 ALO6 SWW7	LED	MVOLT	4000K	4563	34	RECESSED	EXISTING CEILING	4
	LED EXIT LIGHT W/ BATTERY BACKUP	LITHONIA LIGHTING	EXRG - EL - M6	LED	120V	N/A	N/A	1	UNIVERSAL		1, 2
	LED EMERGENCY COMBO W/ BATTERY BACKUP	LITHONIA LIGHTING	ELM4L	LED	120V	N/A	640	11	WALL		1, 2
	LED EMERGENCY/ EXIT COMBO W/ BATTERY BACKUP	LITHONIA LIGHTING	LHQM- LED	LED	120V	N/A	N/A	4.3	WALL		1,2

NOTES:

1. ALL EQUIPMENT LISTED ON THIS SCHEDULE MAY BE SUBSTITUTED WITH ENGINEERING APPROVED EQUAL.
2. CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS FOR FINAL CEILING TYPES AND HEIGHTS.
3. COLOR TEMPERATURE AND LUMENS BASED ON FIXTURE'S SWITCHABLE MEDIUM LUMEN OUTPUT.

PANEL SCHEDULE - "4LP3"

R/E/N	**EXISTING**	MAIN CIRCUIT	**N/A** AMPS
TYPE	**NEMA 1**	MCB/PANEL RATING	**10000** AIC
MOUNT	**SURFACE**	MAIN LUGS	**225A** AMPS
PHASE	**3**	MAIN SHUNT TRIP	**NO**
WIRE	**4W**	BRANCH RATING	**10000** AIC
L-N	**120**	BRANCH TYPE	**BOLT ON**
L-L	**208**	BUS MATERIAL	**AL**
RATED	**FULLY**	FEED THRU LUGS	**NO**
FEED FROM	**PANEL MDP**	MISCELLANEOUS	

NOTES	WIRE SIZE	CKT. NO.	ITEM/DESCRIPTION	POLES	BREAKER SIZE	LOAD VA/PHASE	PHASE LEG	LOAD VA/PHASE	BREAKER SIZE	POLES	ITEM/DESCRIPTION	CKT. NO.	WIRE SIZE	NOTES
4		1	IT STORAGE & COPY 407D	1	20	720	A	900	20	1	DISPATCH ADMIN 410 REC.	2		4
4		3	IT STORAGE & COPY 407D	1	20	540	B	720	20	1	RADIO SYS. MANAGER 410A REC.	4		4
4		5	IT STAGFGF 407C - CUBICAL	1	20	720	C	720	20	1	COMMUNICATIONS MANAGER 410B - REC.	6		4
4		7	IT STAGFGF 407C - CUBICAL	1	20	720	A	540	20	1	DISPATCH ADMIN 411 - REC.	8		4
4		9	IT RECEPTION/MEETING 407	1	20	900	B	540	20	1	ASSISTANT COM 411A	10		4
4		11	IT STAFF 407B	1	20	720	C	900	20	1	COMMANDER 411D - REC.	12		4
4		13	TOM OFFICE 407A	1	20	720	A	900	20	1	SUPERVISORS 411C - REC.	14		4
		15	SPARE	1	20	0	B	0	20	1	SPARE	16		
		17	SPARE	1	20	0	C	0	20	1	SPARE	18		
		19	SPARE	1	20	0	A	0	20	1	SPARE	20		
		21	SPARE	1	20	0	B	0	20	1	SPARE	22		
		23	SPARE	1	20	0	C	0	20	1	SPARE	24		
4		25	EXHAUST FAN	1	20	0	A	0	20	1	SPARE	26		
		27	SPARE	1	20	0	B	0	20	1	SPARE	28		
		29	SPARE	1	20	0	C	1000	20	1	RM. 416 NON-UPS FL REC.	30	#12	5
		31	SPARE	1	20	0	A	1000	20	1	RM. 416 NON-UPS FL REC.	32	#12	5
		33	SPARE	1	20	0	B	1000	20	1	RM. 416 NON-UPS FL REC.	34	#12	6
		35	SPACE	1		0	C	1000	20	1	RM. 416 NON-UPS FL REC.	36	#12	6
		37	SPACE	1		0	A	1000	20	1	RM. 416 NON-UPS FL REC.	38	#12	6
		39	SPACE	1		0	B	1000	20	1	RM. 416 NON-UPS FL REC.	40	#12	6
		41	SPACE	1		0	C	0		1	SPACE	42		

NOTES		CONNECTED LOAD			LOAD SUMMARY			
		TOTAL (VA) PHASE A	TOTAL (VA) PHASE B	TOTAL (VA) PHASE C	TYPE OF LOAD	DEMAND FACTOR	VA	DEMAND
1	BREAKERS TO BE AFCI TYPE				LIGHTING (L)	125%	0	0
2	BREAKERS TO BE GFCI TYPE	**6500**	**4700**	**5060**	TOTAL RECEPTACLES (R)		10260	
3	BREAKER TO BE HARC TYPE	40%	29%	31%	<=10KVA RECEPTACLES	100%	10000	10000
4	EXISTING CIRCUIT TO REMAIN	**CONNECTED LOAD SUMMARY**			>10KVA RECEPTACLES	50%	260	130
5	UTILIZE EXISTING BREAKER FOR NEW CIRCUIT	TOTAL (VA)	16260		MOTORS (M)	100%	0	0
6	PROVIDE NEW BREAKER AS INDICATED. BREAKER SHALL BE COMPATIBLE WITH EXISTING PANEL.	TOTAL AMPERAGE	46		LARGEST MOTOR	125%	0	0
7		**DEMAND LOAD**			ELECTRIC HEAT (H)	100%	6000	6000
8		**TOTAL (VA)**	**16130**		KITCHEN (K)	100%	0	0
9		**TOTAL AMPERAGE**	**45**		NON-CONTINOUS (O)	100%	0	0
10								

LOAD SUMMARY

EXISTING PANEL "4LP3"	=10435VA (29A @ 208V, 1-PHASE)
LOAD ADDED TO PANEL "4LP3"	=6117VA (17A @ 208V, 3-PHASE)
TOTAL LOAD ON "4LP331"	=15193VA (73A @ 208V, 3-PHASE)

AFTER THE SCOPE OF WORK SHOWN IN THIS DOCUMENT, THE NEW TOTAL PROPSOAED CONNECTED LOAD ON THE EXISTING PANEL "4LP3" IS 73A. THE EXISTING PANEL AND EXISTING FEEDERS ARE RATED FOR 225A, 130A AND 125A RESPECTIVELY.

SCHEDULE(S) AND LOAD SUMMARY FOR FOURTH FLOOR

100% DRAWING - PERMIT SET

REVISIONS	DATE	FOR

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EL PASO COUNTY

EL PASO COUNTY SHERIFF'S OFFICE BUILDING
911 DISPATCH REMODEL
27 E. VERMIJO
COLORADO SPRINGS, CO 80903

PANEL SCHEDULES AND CALCULATIONS 4TH FLOOR

DATE: 01/27/24
DRAWN BY: NSC
CHECKED BY: AIS
PROJECT NO: 2023-5136-01
SHEET NO:
E-602.4A

PLOT DATE: 05/31/24 3:29 PM BY: AARON SPRINGFIELD PROJ. FILE: P:\Trammel Design Group\2023-5136-01 - OTS Basement & 1st fl\Electrical\OTS BMNT 4TH FL REMODEL- Electrical.dwg

PANEL SCHEDULE - "U4LP1/U4LP1A"

R/E/N: EXISTING
TYPE: NEMA 1
MOUNT: SURFACE
PHASE: 3
WIRE: 4W
L-N: 120
L-L: 208
RATED: FULLY
FEED FROM: T-UPS (XFMR)

MAIN CIRCUIT: 350A AMPS
MCB/PANEL RATING: 22000 AIC
MAIN LUGS: 400A AMPS
MAIN SHUNT TRIP: NO
BRANCH RATING: 22000 AIC
BRANCH TYPE: BOLT ON
BUS MATERIAL: (E)
FEED THRU LUGS: YES
MISCELLANEOUS

NOTES	WIRE SIZE	CKT. NO.	ITEM/DESCRIPTION	POLES	BREAKER SIZE	LOAD VA/PHASE	PHASE LEG	LOAD VA/PHASE	BREAKER SIZE	POLES	ITEM/DESCRIPTION	CKT. NO.	WIRE SIZE	NOTES
4		1	ROOM 410A RECPTPTICALS	1	20	360	A	720	20	1	RM.416 S.E. DESK	2	#12	6,7
4		3	ROOM 410B RECPTPTICALS	1	20	360	B	720	20	1	RM.416 S.E. DESK	4	#12	6,7
4		5	ROOM 411A RECPTPTICALS	1	20	360	C	720	20	1	RM.416 S.E. DESK	6	#12	6,7
4		7	ROOM 411B RECPTPTICALS	1	20	360	A	720	20	1	RM.416 S.E. DESK	8	#12	6,7
4		9	ROOM 411 RECPTPTICALS	1	20	360	B	720	20	1	RM. 416 NW DESK #2	10	#12	6,7
4		11	SPARE	1	20	0	C	720	20	1	RM. 416 NW DESK #2	12	#12	6,7
6,7	#12	13	RM. 416 SW DESK #2	1	20	720	A	720	20	1	RM. 416 NW DESK #2	14	#12	6,7
6,7	#12	15	RM. 416 SW DESK #2	1	20	720	B	720	20	1	RM. 416 NW DESK #2	16	#12	6,7
6,7	#12	17	RM. 416 SW DESK #2	1	20	720	C	720	20	1	RM. 416 NW DESK #2	18	#12	6,7
6,7	#12	19	RM. 416 SW DESK #2	1	20	720	A	720	20	1	RM. 416 NW DESK #2	20	#12	6,7
6,7	#12	21	RM. 416 SW DESK #2	1	20	720	B	720	20	1	RM. 416 NW DESK #2	22	#12	6,7
6,7	#12	23	RM. 416 SW DESK #2	1	20	720	C	720	20	1	RM. 416 NW DESK #2	24	#12	6,7
6,7	#12	25	RM. 416 SW DESK #2	1	20	720	A	720	20	1	SPARE	26		6
6,7	#12	27	RM. 416 SW DESK #2	1	20	720	B	720	20	1	SPARE	28		6
4		29	ROOM 411C EAST WALL REC.	1	20	720	C	720	20	1	SPARE	30		6
4		31	ROOM 411C WEST WALL REC.	1	20	720	A	720	20	1	SPARE	32		6
4		33	ROOM 411C WEST WALL REC.	1	20	720	B	1400	20	1	RM 416 UPS UNDER FLOOR REC.	34		4
4		35	ROOM 411C WEST WALL REC.	1	20	720	C	1400	20	1	RM 416 UPS UNDER FLOOR REC.	36		4
4		37	ROOM 416 UPS UNDER FLOOR REC	1	20	1400	A	1400	20	1	RM 416 UPS UNDER FLOOR REC.	38		4
4		39	ROOM 416 UPS UNDER FLOOR REC	1	20	1400	B	1400	20	1	RM 416 UPS UNDER FLOOR REC.	40		4
4		41	ROOM 416 UPS UNDER FLOOR REC	1	20	1400	C	1400	20	1	RM 416 UPS UNDER FLOOR REC.	42		4
6,7	#12	43	RM. 416 SE DESK #2	1	20	720	A	1400	20	1	RM 416 UPS UNDER FLOOR REC.	44		4
6,7	#12	45	RM. 416 SE DESK #2	1	20	720	B	0	20	1	(OFF "SPARE")	46		4
6,7	#12	47	RM. 416 SE DESK #2	1	20	720	C	1400	20	1	RM 416 UPS UNDER FLOOR REC.	48		4
6,7	#12	49	RM. 416 SE DESK #2	1	20	720	A	1400	20	1	RM 416 UPS UNDER FLOOR REC.	50		4
6,7	#12	51	RM. 416 SE DESK #2	1	20	720	B	0	20	1	(OFF "SPARE")	52		4
6,7	#12	53	RM. 416 SE DESK #2	1	20	720	C	0	30	1	(OFF "SPARE")	54		4
6,7	#12	55	RM. 416 SE DESK #2	1	20	720	A	0	30	1	(OFF "SPARE")	56		4
6,7	#12	57	RM. 416 SE DESK #2	1	20	720	B	2200	20	2	RM 416 UPS 2" POLE UNDERFLOOR TWIST LOCK REC.	58		4
4		59	SPARE	1	20	0	C	2200				60		
4		61	RM 416 UPS 2" POLE UNDERFLOOR TWIST LOCK REC.	2	30	2200	A	2200	20	2	RM 416 UPS 2" POLE UNDERFLOOR TWIST LOCK REC.	62		4
		63				2200	B	2200				64		
4		65	RM 416 UPS 2" POLE UNDERFLOOR TWIST LOCK REC.	2	30	2200	C	720	20	1	RM. 416 SE DESK #2	66	#12	6,7
		67				2200	A	720	20	1	RM. 416 SE DESK #2	68	#12	6,7
4		69	SPARE	1	20	0	B	720	20	1	RM. 416 SE DESK #2	70	#12	6,7
4		71	SPARE	1	20	0	C	720	20	1	RM. 416 SE DESK #2	72	#12	6,7,8
4		73	IT ROOM 408	1	20	1920	A	720	20	1	RM. 416 SE DESK #2	74	#12	6,7,8
4		75	IT ROOM 408	1	20	1920	B	720	20	1	RM. 416 SE DESK #2	76	#12	6,7,8
4		77	SPARE	1	20	0	C	720	20	1	RM. 416 SE DESK #2	78	#12	6,7,8
4		79	BLANK	1		0	A	720	20	1	RM. 416 SE DESK #2	80	#12	6,7,8
4		81	BLANK	1		0	B	0		1	BLANK	82		
4		83	BLANK	1		0	C	0		1	BLANK	84		

NOTES	CONNECTED LOAD			LOAD SUMMARY			
	TOTAL (VA)	TOTAL (VA)	TOTAL (VA)	TYPE OF LOAD	DEMAND FACTOR	VA	DEMAND
1 BREAKERS TO BE AFCI TYPE	PHASE A	PHASE B	PHASE C	LIGHTING (L)	125%	0	0
2 BREAKERS TO BE GFCI TYPE	26360	23520	20440	TOTAL RECEPTACLES (R)		63120	
3 BREAKER TO BE HARC TYPE	72%	64%	56%	<=10KVA RECEPTACLES	100%	10000	10000
4 EXISTING CIRCUIT TO REMAIN	CONNECTED LOAD SUMMARY			>10KVA RECEPTACLES	50%	53120	26560
5 RECONNECT EXISTING CIRCUIT	TOTAL (VA)		70320	MOTORS (M)	100%	0	0
6 RELABLE AS INDICATED	TOTAL AMPERAGE		196	LARGEST MOTOR	125%	0	0
7 PROVIDE TIE-HANDLE ON BREAKER	DEMAND LOAD			ELECTRIC HEAT (H)	100%	0	0
8 PROVIDE NEW BREAKER AS INDICATED. NEW BREAKER SHALL BE MAKE AND MODEL COMPATAGBLE WITH EXISTING PANEL	TOTAL (VA)		36560	KITCHEN (K)	100%	0	0
10	TOTAL AMPERAGE		102	NON-CONTINOUS (O)	100%	0	0

LOAD SUMMARY

EXISTING PANEL "U4LP1/U4LP1A"	=37250VA (103.4A @ 208V, 3-PHASE)
MODIFICAITONS TO "U4LP1/U4LP1A"	= -690VA (-1.92A @ 208V, 3-PHASE)
TOTAL LOAD AT "U4LP1/U4LP1A"	=36560VA (102AA @ 208V, 3-PHASE)

AFTER THE SCOPE OF WORK SHOWN IN THIS DOCUMENT, THE NEW TOTAL REDUCTION OF CONNECTED LOAD ON THE EXISTING PANEL "U4LP1/U4LP1A" IS **NEGITIVE 1.92**A. THE EXISTING PANEL, OVERCURRENT PROTECTION AND EXISTING FEEDERS ARE RATED FOR 400A, 350A AND 380A RESPECTIVELY.

PANEL SCHEDULE - "U4LP1B"

R/E/N: NEW
TYPE: NEMA 1
MOUNT: SURFACE
PHASE: 3
WIRE: 4W
L-N: 120
L-L: 208
RATED: FULLY
FEED FROM: T-UPS (XFMR)

MAIN CIRCUIT: 100A AMPS
MCB/PANEL RATING: 14000 AIC
MAIN LUGS: 100A AMPS
MAIN SHUNT TRIP: NO
BRANCH RATING: 14000 AIC
BRANCH TYPE: BOLT ON
BUS MATERIAL: CU
FEED THRU LUGS: NO
MISCELLANEOUS

NOTES	WIRE SIZE	CKT. NO.	ITEM/DESCRIPTION	POLES	BREAKER SIZE	LOAD VA/PHASE	PHASE LEG	LOAD VA/PHASE	BREAKER SIZE	POLES	ITEM/DESCRIPTION	CKT. NO.	WIRE SIZE	NOTES
7	#12	1	RM.416 NW DESK #2	1	20	720	A	720	20	1	RM. 416 NW DESK	2	#12	7
7	#12	3	RM.416 NW DESK #2	1	20	720	B	720	20	1	RM. 416 NW DESK	4	#12	7
7	#12	5	RM.416 NW DESK #2	1	20	720	C	720	20	1	RM. 416 NW DESK	6	#12	7
7	#12	7	RM.416 NW DESK #2	1	20	720	A	720	20	1	RM. 416 NW DESK	8	#12	7
7	#12	9	RM.416 NW DESK #2	1	20	720	B	720	20	1	RM. 416 NW DESK	10	#12	7
7	#12	11	RM.416 NW DESK #2	1	20	720	C	720	20	1	RM. 416 NW DESK	12	#12	7
7	#12	13	RM.416 NW DESK #2	1	20	720	A	720	20	1	RM. 416 NW DESK	14	#12	7
7	#12	15	RM.416 NW DESK #2	1	20	720	B	720	20	1	RM. 416 NW DESK	16	#12	7
7	#12	17	RM.416 NW DESK #2	1	20	720	C	0	20	1	SPARE	18		
7	#12	19	RM.416 NW DESK #2	1	20	720	A	0	20	1	SPARE	20		
		21	SPARE	1	20	0	B	720	20	1	RM. 416 CENTER DESK	22	#12	7
	#12	23	NW. DESK #2 SIDE DESK	1	20	180	C	720	20	1	RM. 416 CENTER DESK	24	#12	7
7	#12	25	RM. 416 SE DESK	1	20	720	A	720	20	1	RM. 416 CENTER DESK	26	#12	7
7	#12	27	RM. 416 SE DESK	1	20	720	B	720	20	1	RM. 416 CENTER DESK	28	#12	7
7	#12	29	RM. 416 SE DESK	1	20	720	C	720	20	1	RM. 416 CENTER DESK	30	#12	7
7	#12	31	RM. 416 SE DESK	1	20	720	A	720	20	1	RM. 416 CENTER DESK	32	#12	7
7	#12	33	RM. 416 SE DESK	1	20	720	B	720	20	1	RM. 416 CENTER DESK	34	#12	7
7	#12	35	RM. 416 SE DESK	1	20	720	C	720	20	1	RM. 416 CENTER DESK	36	#12	7
7	#12	37	RM. 416 SE DESK	1	20	720	A	720	20	1	RM. 416 CENTER DESK	38	#12	7
7	#12	39	RM. 416 SE DESK	1	20	720	B	720	20	1	RM. 416 CENTER DESK	40	#12	7
		41	SPARE	1	20	0	C	720	20	1	RM. 416 CENTER DESK	42	#12	7
		43	SPARE	1	20	0	A	720	20	1	RM. 416 CENTER DESK	44	#12	7
		45	SPARE	1	20	0	B	720	20	1	RM. 416 CENTER DESK	46	#12	7
		47	SPARE	1	20	0	C	720	20	1	RM. 416 CENTER DESK	48	#12	7
		49	SPARE	1	20	0	A	720	20	1	RM. 416 CENTER DESK	50	#12	7
		51	SPARE	1	20	0	B	720	20	1	RM. 416 CENTER DESK	52	#12	7
	#12	53	RM. 416 EAST WALL MONITOR REC	1	20	180	C	180	20	1	RM.416 WEST WALL MONITORS	54	#12	
	#12	55	RM. 416 EAST WALL MONITOR REC	1	20	180	A	180	20	1	RM.416 WEST WALL MONITORS	56	#12	
	#12	57	RM. 416 EAST WALL MONITOR REC.	1	20	180	B	180	20	1	RM.416 WEST WALL MONITORS	58	#12	
	#12	59	RM. 416 NORTH CENTER MONITOR	1	20	180	C	180	20	1	RM. 416 NORTH CENTER MONITOR	60	#12	
		61	RM. 416 PRINTER	1	20	0	A	0	20	1	SPARE	62		
		63	SPARE	1	20	0	B	360	20	1	RM. 416 CENTER WORK DESK REC.	64	#12	
		65	SPARE	1	20	0	C	0	20	1	SPARE	66		
		67	SPARE	1	20	0	A	0	20	1	SPARE	68		
		69	SPARE	1	20	0	B	0	20	1	SPARE	70		
		71	SPARE	1	20	0	C	0	20	1	SPARE	72		
		73	SPARE	1	20	0	A	0	20	1	SPARE	74		
		75	SPARE	1	20	0	B	0	20	1	SPARE	76		
		77	SPARE	1	20	0	C	0	20	1	SPARE	78		
		79	SPARE	1	20	0	A	0	20	1	SPARE	80		
		81	SPARE	1	20	0	B	0	20	1	SPARE	82		
		83	SPARE	1	20	0	C	0	20	1	SPARE	84		

NOTES	CONNECTED LOAD			LOAD SUMMARY			
	TOTAL (VA)	TOTAL (VA)	TOTAL (VA)	TYPE OF LOAD	DEMAND FACTOR	VA	DEMAND
1 BREAKERS TO BE AFCI TYPE	PHASE A	PHASE B	PHASE C	LIGHTING (L)	125%	0	0
2 BREAKERS TO BE GFCI TYPE	11160	11520	9540	TOTAL RECEPTACLES (R)		30780	
3 BREAKER TO BE HARC TYPE	55%	56%	47%	<=10KVA RECEPTACLES	100%	10000	10000
4 EXISTING CIRCUIT TO REMAIN	CONNECTED LOAD SUMMARY			>10KVA RECEPTACLES	50%	20780	10390
5 RECONNECT EXISTING CIRCUIT	TOTAL (VA)		32220	MOTORS (M)	100%	0	0
6 RELABLE AS INDICATED	TOTAL AMPERAGE		90	LARGEST MOTOR	125%	0	0
7 PROVIDE TIE-HANDLE ON BREAKER	DEMAND LOAD			ELECTRIC HEAT (H)	100%	0	0
8 PROVIDE NEW BREAKER AS INDICATED. NEW BREAKER SHALL BE MAKE AND MODEL COMPATAGBLE WITH EXISTING PANEL	TOTAL (VA)		20390	KITCHEN (K)	100%	0	0
10	TOTAL AMPERAGE		57	NON-CONTINOUS (O)	100%	0	0

LOAD SUMMARY

	CONNECTED LOAD
TOTAL LOAD ON NEW "U4LP1B"	= 20390VA (57A @ 208V, 3-PHASE)

TOTAL LOAD TO THE NEW PANEL "U4LP1B" IS 57A. THE NEW PANEL, OCP AND ITS NEW FEEDERS ARE ALL RATED FOR 100A.

MODIFIED PANEL "U4LP1A/U4LP1"	=36560VA (102AA @ 208V, 3-PHASE)
NEW PANEL "U4LP1B"	= 20390VA (57A @ 208V, 3-PHASE)
NEW TOTAL CONNECTED LOAD AT T-UPS	=56950VA (159A @ 208V, 3-PHASE)

AFTER THE SCOPE OF WORK SHOWN IN THIS DOCUMENT, THE NEW TOTAL PROPSOAED CONNECTED LOAD ON THE EXISTING TRANSFORMER T-UPS IS 159A. THE EXISTING TRANSFORMER IS RATED FOR 112.3VA (313A @ 208V)

THE CURRENT SCOPE OF WORK HAS A FINAL LOAD OF APPROXIMATELY **59.6%** OF THE EXISTING UPS CAPACITY.

SCHEDULE(S) AND LOAD SUMMARY FOR FOURTH FLOOR (CONT.)

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REVISIONS

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2		
3		
4		

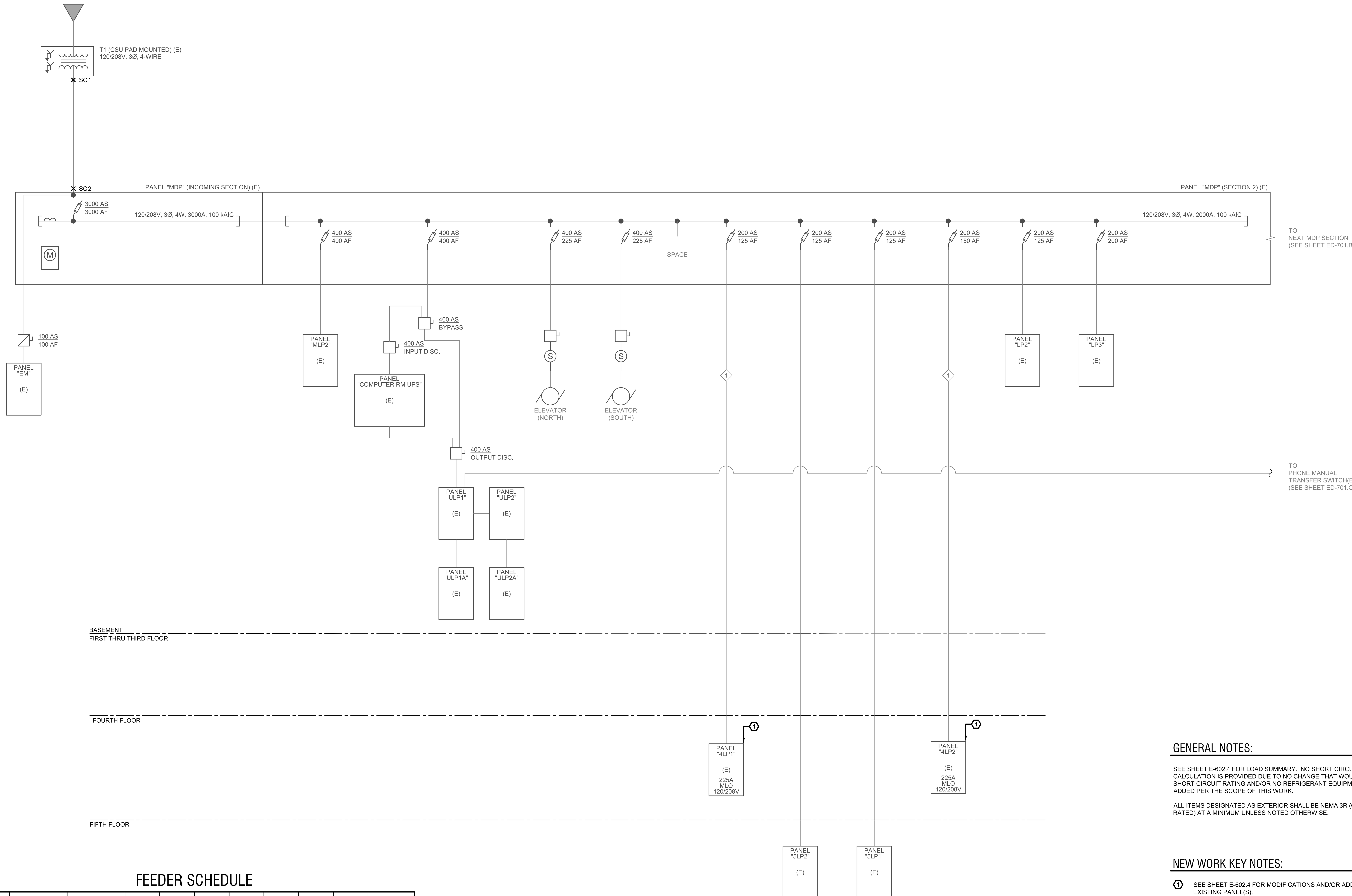
COLORADO SPRINGS, CO 80911
T 719.521.8044

TDG Architecture
201 East Las Animas Street, Suite 113
Colorado Springs, CO 80903
719.623.5641 (Phone)
719.623.5643 (Fax)

EL PASO COUNTY
SHERIFF'S OFFICE BUILDING
911 DISPATCH REMODEL
27 E. VERMIJO
COLORADO SPRINGS, CO 80903

PANEL SCHEDULES AND CALCULATIONS 4TH FLOOR

DATE: 01/27/24
DRAWN BY: NSC
CHECKED BY: AIS
PROJECT NO:2023-5136-01
SHEET NO:
E-602.4B



FEEDER SCHEDULE

ID	SETS OF CONDUCTORS	CONDUCTOR SIZE	TYPE	GROUND	TYPE	CONDUIT	SIZE	AMPS	LENGTH	NOTES
◇1	1	4 - #1	CU	#6	CU	EMT	1"	130A	(E)	1
NOTES:										
1	EXISTING CONDUIT AND FEEDERS HAVE BEEN COMPLETED TO THE BEST OF THE ENGINEER'S ABILITY. SHOULD EXISTING CONDITIONS DIFFER FROM DIAGRAM SHOWN, CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ENGINEER TO ADDRESS ANY DISCREPANCIES.									

EXISTING ONE-LINE DIAGRAM

(SHEET 1 OF 3)

GENERAL NOTES:

SEE SHEET E-602.4 FOR LOAD SUMMARY. NO SHORT CIRCUIT CALCULATION IS PROVIDED DUE TO NO CHANGE THAT WOULD AFFECT SHORT CIRCUIT RATING AND/OR NO REFRIGERANT EQUIPMENT WAS ADDED PER THE SCOPE OF THIS WORK.

ALL ITEMS DESIGNATED AS EXTERIOR SHALL BE NEMA 3R (OUTDOOR RATED) AT A MINIMUM UNLESS NOTED OTHERWISE.

NEW WORK KEY NOTES:

1. SEE SHEET E-602.4 FOR MODIFICATIONS AND/OR ADDITIONS TO EXISTING PANEL(S).

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51EC INC.
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27 E. VERMIJO
COLORADO SPRINGS, CO 80903

EXISTING SINGLE-LINE DIAGRAM

DATE: 01/27/24
DRAWN BY: NSC
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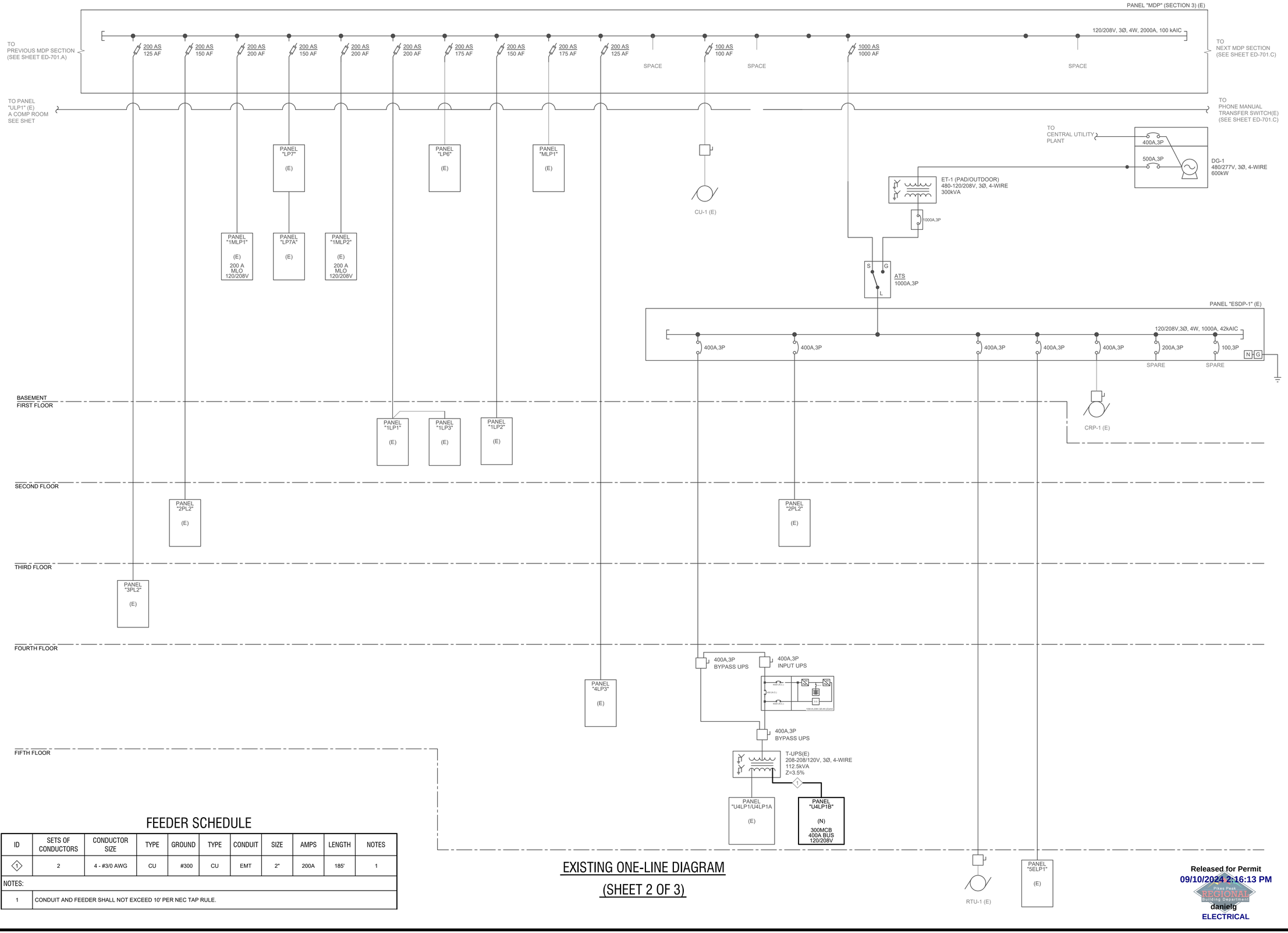
PROJECT NO: 2023-5136-01
SHEET NO:
ED-701.A



FEEDER SCHEDULE

ID	SETS OF CONDUCTORS	CONDUCTOR SIZE	TYPE	GROUND	TYPE	CONDUIT	SIZE	AMPS	LENGTH	NOTES
1	2	4 - #3/0 AWG	CU	#300	CU	EMT	2"	200A	185'	1

NOTES:

1	CONDUIT AND FEEDER SHALL NOT EXCEED 10' PER NEC TAP RULE.

EXISTING ONE-LINE DIAGRAM
(SHEET 2 OF 3)

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SHERIFF'S OFFICE BUILDING
911 DISPATCH REMODEL
27 E. VERMIJO
COLORADO SPRINGS, CO 80903

EXISTING SINGLE-LINE DIAGRAM

DATE: 01/27/24
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PROJECT NO 2023-5136-01
SHEET NO:
ED-701.B

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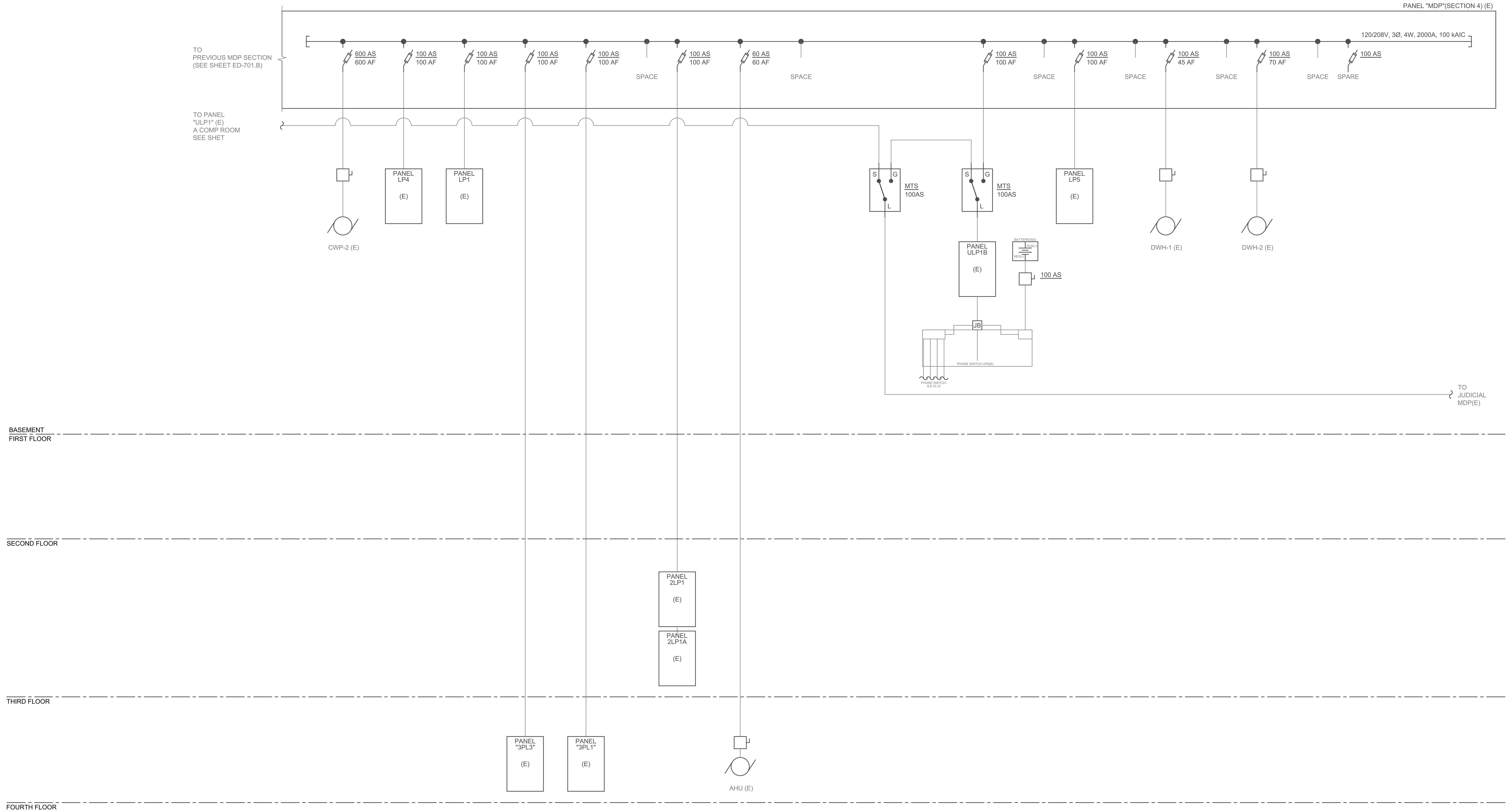

EXISTING ONE-LINE DIAGRAM
(SHEET 3 OF 3)

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EL PASO COUNTY

EL PASO COUNTY
SHERIFF'S OFFICE BUILDING
911 DISPATCH REMODEL
27 E. VERMIJO
COLORADO SPRINGS, CO 80903

EXISTING SINGLE-LINE DIAGRAM

DATE: 01/27/24
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COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code:	2021 IECC
Project Title:	27 E. Vermijo - OTS
Project Type:	Alteration

Construction Site:
27E. Varmijo
Colorado Springs, Colorado 80903

Owner/Agent:

Designer/Contractor:
Aaron Springfield
51EC
719.521.8044
aaronspringfield51ec@outlook.com

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Downstairs - 911 Training (Common Space Types:Classroom/Lecture/Training)	620	0.71	440
2-Upstairs - 911 Dispatch (Common Space Types:Office - Open Plan)	1823	0.61	1112
		Total Allowed Watts =	1552

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Downstairs - 911 Training (Common Space Types: Classroom/Lecture/Training, 620 sq.ft.)				
LED: A: LED 2 x 4 Troffer: LED Panel 33W:	1	9	31	275
Upstairs - 911 Dispatch (Common Space Types: Office - Open Plan, 1823 sq.ft.)				
LED: A: LED 2 X 4 TROFFER: LED Panel 33W:	1	37	31	1132
			Total Proposed Watts =	1408

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

AARON I SPRINGFIELD/FOR — Name - Title

Signature

7/23/2024 — Date

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AARON IVAN SPRINGFIELD
0051211
7-24-2024
PROFESSIONAL ENGINEER
EXP 10/31/2025

COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code:	2021 IECC
Project Title:	27 E. Vermijo - OTS
Location:	Colorado Springs, Colorado
Climate Zone:	5b
Project Type:	Alteration

Construction Site:
27E. Varmijo
Colorado Springs, Colorado 80903

Owner/Agent:

Designer/Contractor:
Aaron Springfield
51EC
719.521.8044
aaronspringfield51ec@outlook.com

Mechanical Systems List

Quantity	System Type & Description
1	Plant - Existing: Heating: Hot Water Boiler, Capacity 300000 kBtu/h, Gas Proposed Efficiency: 82.00 % Ec, Required Efficiency: 82.00 % Ec
1	Plant - Existing: Cooling: Water Chiller, Capacity 100 tons, Condenser Water-Cooled, Standard Centrifugal Chiller, Heat Rejection Equipment: Centrifugal Fan Closed-Circuit Cooling Tower Proposed Efficiency: 0.61 kW/ton-FL, Required Efficiency: 0.61 kW/ton-FL Proposed Part Load Efficiency: 0.55 kW/ton-IPLV, Required Part Load Efficiency: 0.55 kW/ton-IPLV

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

AARON I. SPRINGFIELD / EOR
Name - Title

Signature

7/23/2024
Date

COLORADO LICENSED
AARON IAN SPRINGFIELD
PROFESSIONAL ENGINEER
7-24-2024
EXP 10/31/2025