



LABORATORY OF TREE-RING RESEARCH RENOVATIONS

FACILITY PROGRAM

UA Project No. 06-8727

Prepared for:

The University of Arizona
Tucson, Arizona

Phase One and Phase Two Draft
May 9, 2008



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PROJECT NARRATIVE

Scope of Work

The following program attempts to accurately develop functional and spacial requirements to renovate existing space in the West Stadium for use by the Laboratory of Tree-Ring Research (LTRR).

The current facilities for the LTRR are disjointed and located in unconnected areas of the west side of the University of Arizona football stadium and other University buildings. Through our understanding of the project users' programmatic and functional needs, we will strive to create a well-organized program that will provide for the expansion of the LTRR into the former Printing and Graphics facilities (Phase I and Phase III) and the renovation of the existing LTRR facilities located on the Ground Floor of the West Stadium – (Phase II).

M3 Engineering and Technology Corp. (M3) was retained by the University of Arizona to program spacial requirements and explore the potential scope and estimated costs for renovation to the West Stadium for the LTRR. Upon approval of the program, M3 will establish solutions that will provide a complete renovation to the level of quality that is typical for similar spaces on the University of Arizona campus.

Approach

Work on this program was fostered through meetings with Tom Swetnam, Director of the LTRR, Steve Leavitt, Associate Director, LTRR, Carl Gajdorus of the University of Arizona Facilities Design and Construction Department, and key members of the LTRR Staff.

M3 also conducted an in-depth site visit to the spaces that will be renovated. This site visit involved architects along with mechanical and electrical engineers. Through measuring, photography, and sketching, M3 was able to draw up the existing space and use it as a tool to communicate with the client. Additional information was also gathered through research and study of as-built drawings.

Using all of the information gathered, M3 was able to make informed decisions in compiling a thorough program for review by the client. This information will aid the design team in assembling a solution that will meet the programmatic and functional needs of the LTRR.

Summary

This program is formatted through a summary of spaces that includes six sections. The individual spaces within these sections are addressed in regards to function, square footage, occupancy, utilities, and equipment requirements. A size/function diagram is also included for each space.

The total programmed area for this project is 18,219 G.A.S.F (13,496 N.A.S.F). The existing area of the West Stadium to be occupied by the Laboratory of Tree Ring Research is 15,635 G.A.S.F.

Several programmed functions have been identified as being able to be deferred for inclusion in a future LTRR project.

The designation of certain spaces as deferred and future allows the remaining higher priority space needs to more closely align with the available existing G.A.S.F.

The need to keep the LTRR existing offices and laboratories functioning necessitates that the renovation be accomplished in two phases.

Phase I will provide for the expansion of the LTRR into the former Printing and Graphics facilities. The programmed area for this phase is 10,469 G.A.S.F. (7,755 N.A.S.F.). An existing LTRR "Wet Laboratory" suite located within this Phase I work area will need to remain insitu during the renovation process until the completion of similar replacement space in either Phase II or the new Archive Building.

Upon completion of Phase I the LTRR Staff located in the Phase II work area will relocate into their new permanent facilities in the Phase I area.

Phase II will provide for the renovation of the remaining existing LTRR spaces. The programmed area for this phase is 4,442 G.A.S.F (3,290 N.A.S.F.).

Upon completion of Phase II the LTRR Staff will occupy this space and Phase III, renovation of the existing "Wet Laboratory" space will occur.

Acknowledgements

M3 Engineering and Technology Corp. extends our sincere thanks to all who took part in the preparation of this program. Special thanks to Tom Swetnam and Steve Leavitt for your diligent efforts to educate the Design Team as to the LTRR needs and for your patience and suggestions. The meetings and facility tours with you were extremely helpful in gathering critical information and understanding the work of the LTRR that will enrich the design of this project.

SPACE REQUIREMENTS

SPACE DESCRIPTION		Number of Spaces	Occupants Per Space	Occupancy Total	N.A.S.F. Per Space	N.A.S.F. Total	Phase I	Phase II
1.0 ADMINISTRATION								
1.01	Director's Office	1.00	1.00	1.00	210.00	210.00	210.00	0.00
1.02	Business Manager	1.00	1.00	1.00	105.00	105.00	105.00	0.00
1.03	Clerical Staff & Part-Time Student	1.00	3.00	3.00	90.00	270.00	270.00	0.00
1.04	File Room	1.00	0.00	0.00	230.00	230.00	230.00	0.00
1.05	Storage Room	1.00	0.00	0.00	80.00	80.00	80.00	0.00
1.06	Reception Area	1.00	0.00	0.00	256.00	256.00	256.00	0.00
Occupancy Total				5.00				
N.A.S.F. Total						1,151.00	1,151.00	0.00
2.0 OFFICES								
2.01	Senior Faculty Offices	2.00	1.00	2.00	160.00	320.00	320.00	0.00
2.02	Principal Investigator Office - Large	4.00	1.00	4.00	160.00	640.00	480.00	160.00
2.03	Principal Investigator Office - Small	5.00	1.00	5.00	130.00	650.00	390.00	260.00
2.04	Post-Doctorate / Associate Office	6.00	1.00	6.00	130.00	780.00	650.00	130.00
2.05	Visitor Office	3.00	1.00	3.00	130.00	390.00	0.00	390.00
2.06	Graduate Student Cubicle	10.00	1.00	10.00	55.00	550.00	550.00	0.00
2.07	Shared Conference	5.00	0.00	0.00	144.00	720.00	576.00	144.00
2.08	Common Storage	1.00	0.00	0.00	300.00	300.00	0.00	300.00
Occupancy Total				30.00				
N.A.S.F. Total						4,350.00	2,966.00	1,384.00
3.0 DRY LABORATORY SPACE								
3.01	Hydroclimatology Laboratory	1.00	0.00	0.00	800.00	800.00	800.00	0.00
3.02	Dendrochemistry Laboratory	1.00	0.00	0.00	800.00	800.00	800.00	0.00
3.03	Dendroecology Laboratory	1.00	0.00	0.00	800.00	800.00	0.00	800.00
3.04	Dendroarcheology Laboratory	1.00	0.00	0.00	525.00	525.00	525.00	0.00
3.05	Dendroclimatology Laboratory	1.00	0.00	0.00	525.00	525.00	525.00	0.00
3.06	Measuring Laboratory/Densitometry	1.00	0.00	0.00	525.00	525.00	0.00	525.00
3.07	Entomology Laboratory	1.00	0.00	0.00	400.00	400.00	0.00	400.00
Occupancy Total				0.00				
N.A.S.F. Total						4,375.00	2,650.00	1,725.00
4.0 WET LABORATORY SPACE								
4.01	Common Wet Laboratory - (Deferred)	1.00	0.00	0.00	600.00	600.00	0.00	0.00
4.02	X-Ray Denisotometry Laboratory - (now 3.06)	-----	-----	-----	-----	-----	-----	-----
4.03	X-Ray Room (Existing) - (now 3.06)	-----	-----	-----	-----	-----	-----	-----
4.04	Optical Microscopy Laboratory - (now 3.06)	-----	-----	-----	-----	-----	-----	-----
4.05	Grinding Workroom - (now 3.02)	-----	-----	-----	-----	-----	-----	-----
Occupancy Total				0.00				
N.A.S.F. Total						600.00	0.00	0.00
5.0 MISCELLANEOUS WORK ROOMS & ARCHIVES								
5.01	Archival and Wood Preparation Shop - (Deferred)	1.00	0.00	0.00	384.00	384.00	0.00	0.00
5.02	Equipment Storage / Maintenance - (Dererred)	1.00	0.00	0.00	156.00	156.00	0.00	0.00
5.03	Mechanical Equipment Room - (Deferred)	1.00	0.00	0.00	36.00	36.00	0.00	0.00
Occupancy Total				0.00				
N.A.S.F. Total						576.00	0.00	0.00
6.0 COMMON AREAS								
6.01	Multi-Purpose Room - (Deferred)	1.00	0.00	0.00	875.00	875.00	0.00	0.00
6.02	Library/Shared Conference Room - (Deferred)	1.00	0.00	0.00	400.00	400.00	0.00	0.00
6.03	Staff Lounge	1.00	0.00	0.00	200.00	200.00	0.00	200.00
6.04	Copy / Printer Room / Mail Room	1.00	0.00	0.00	140.00	140.00	140.00	0.00
6.05	Men / Women Restrooms and Showers	1.00	0.00	0.00	350.00	350.00	350.00	0.00
6.06	Gender Neutral Restroom	1.00	0.00	0.00	125.00	125.00	0.00	125.00
6.07	Janitor's Closet	1.00	0.00	0.00	80.00	80.00	80.00	0.00
6.08	Electrical Equipment Room	1.00	0.00	0.00	74.00	74.00	74.00	0.00
6.09	UIITS Room	1.00	0.00	0.00	100.00	100.00	100.00	0.00
6.10	Server Room	1.00	0.00	0.00	100.00	100.00	100.00	0.00
Occupancy Total				0.00				
N.A.S.F. Total						2,444.00	844.00	325.00
Occupancy Total				35.00				
Program N.A.S.F. Total						13,496.00	7,611.00	3,434.00
Program G.A.S.F. Total (N.A.S.F. + 35%)						18,219.60	10,274.85	4,635.90
Existing G.A.S.F. at Renovation Space						15,635.00	11,335.00	4,300.00

SPACE RELATIONSHIP MATRIX

SPACE RELATIONSHIP MATRIX

1.0	ADMINISTRATION							
2.0	OFFICES	3						
3.0	DRY LABORATORY SPACE	3	2					
4.0	WET LABORATORY SPACE	3	2	3				
5.0	MISC. WORK ROOMS & ARCHIVES	3	3	2	2			
6.0	COMMON AREAS	2	2	3	3	3		
		1.0 ADMINISTRATION	2.0 OFFICES	3.0 DRY LABORATORY SPACE	4.0 WET LABORATORY SPACE	5.0 MISC. WORK ROOMS & ARCHIVES	6.0 COMMON AREAS	

PRIORITY KEY

- 1 MUST BE JOINED
- 2 SHOULD BE ADJACENT
- 3 NO STRONG RELATIONSHIP

1.0 ADMINISTRATION

- 1.01 Director's Office
- 1.02 Business Manager
- 1.03 Clerical Staff & Part-Time Student
- 1.04 File Room
- 1.05 Storage Room
- 1.06 Reception Area

1.0 ADMINISTRATION

SPACE NAME: 1.01 Director's Office

FUNCTION: Office space for the Director.

PLUMBING/PROCESS PIPING:

SERVICE: N/A

SPECIAL: N/A

FIXTURES: N/A

SQUARE FOOTAGE REQUIREMENTS:

HVAC:

EXISTING: 180

TEMP/HUMD: Air Conditioned Environment.

REQ'D: 210 (Per A.B.O.R. Space Standards)

OCCUPANTS:

OTHER:

EXISTING: 1

REQ'D: 1 (Swetnam)

ENVIRONMENT:

FLOOR: Carpet

WALL: Gypsum Board

CEILING: Lay-In Acoustic

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Corridor / Clerical Staff
and part-time student.

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: Telephone and Data

ELECTRICAL:

LIGHTING: General Fluorescent

POWER: 110 V Power Outlets

GROUNDING:

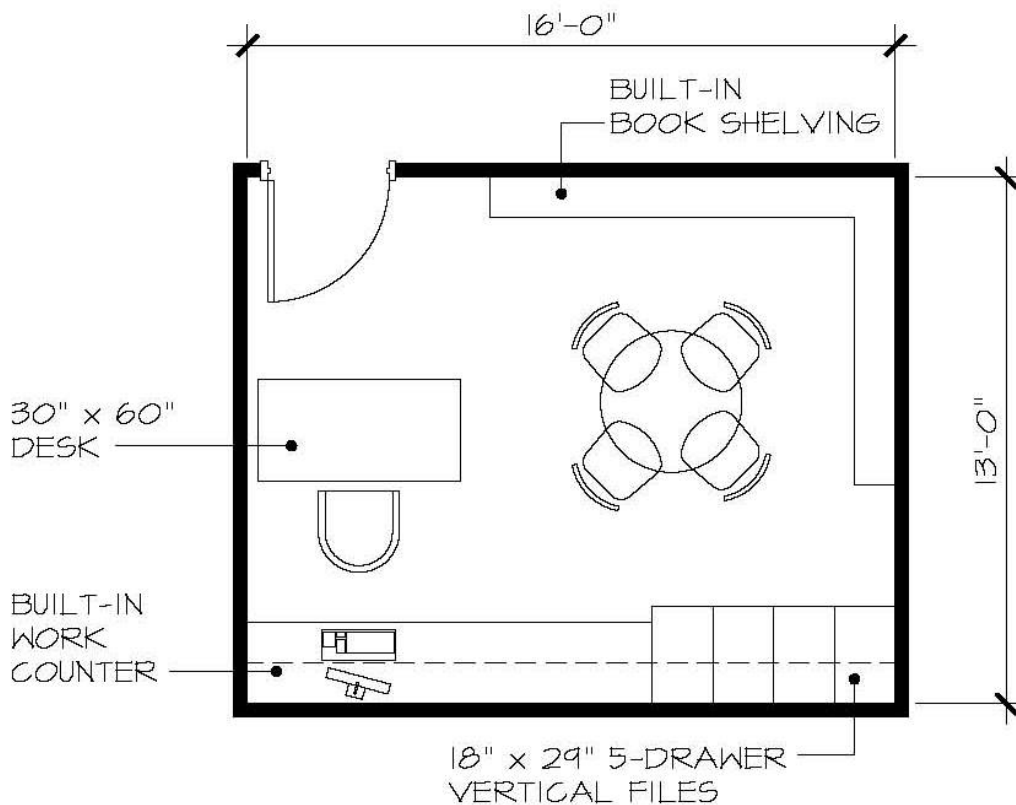
1.0 ADMINISTRATION

SPACE NAME: 1.01 Director's Office

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	Desk Chairs		5
	30" x 60" Desk		1
	Built -In Work Counter		1
	18" x 29" Vertical File Cabinets		4
	Built-In Book Shelving		1
	Conference Table		1

SIZE / FUNCTIONAL DIAGRAM:



1.0 ADMINISTRATION

SPACE NAME: 1.02 Business Manager

FUNCTION: Office space for the
Business Manager

PLUMBING/PROCESS PIPING:

SERVICE: N/A

SPECIAL: N/A

FIXTURES: N/A

SQUARE FOOTAGE REQUIREMENTS:

EXISTING:

REQ'D: 105 (Per A.B.O.R. Space Standards)

HVAC:

TEMP/HUMD: Air Conditioned Environment.

OCCUPANTS:

EXISTING:

REQ'D: 1 Business Manager (Martinez)

OTHER:

ENVIRONMENT:

FLOOR: Carpet

WALL: Gypsum Board

CEILING: Lay-In Acoustic

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Reception

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: Telephone and Data

ELECTRICAL:

LIGHTING: General Fluorescent

POWER: 110 V Power Outlets

GROUNDING:

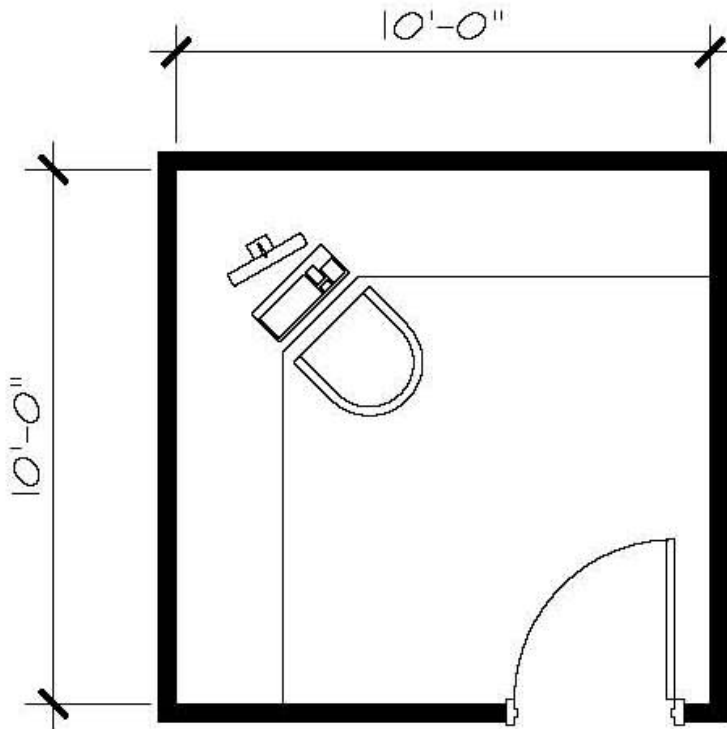
1.0 ADMINISTRATION

SPACE NAME: 1.02 Business Manager

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	Desk with 45" computer corner		1
	Desk Chair		1
	P.C.		1

SIZE / FUNCTIONAL DIAGRAM:



1.0 ADMINISTRATION

SPACE NAME: 1.03 Clerical Staff and Part-Time Student

FUNCTION: Office space for the Clerical Staff
and part-time student.
Mail Distribution Point.

PLUMBING/PROCESS PIPING:

SERVICE: N/A

SPECIAL: N/A

FIXTURES: N/A

SQUARE FOOTAGE REQUIREMENTS:

EXISTING: 320

REQ'D: 270 (Per A.B.O.R. Space Standards)

HVAC:

TEMP/HUMD: Air Conditioned Environment.

OCCUPANTS:

EXISTING:

REQ'D: 3 (1 Acct., 1 Admin. Assist.,
1 part-time student).

OTHER:

ENVIRONMENT:

FLOOR: Carpet

WALL: Gypsum Board

CEILING: Lay-In Acoustic

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Reception

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: Telephone and Data

ELECTRICAL:

LIGHTING: General Fluorescent

POWER: 110 V Power Outlets

GROUNDING:

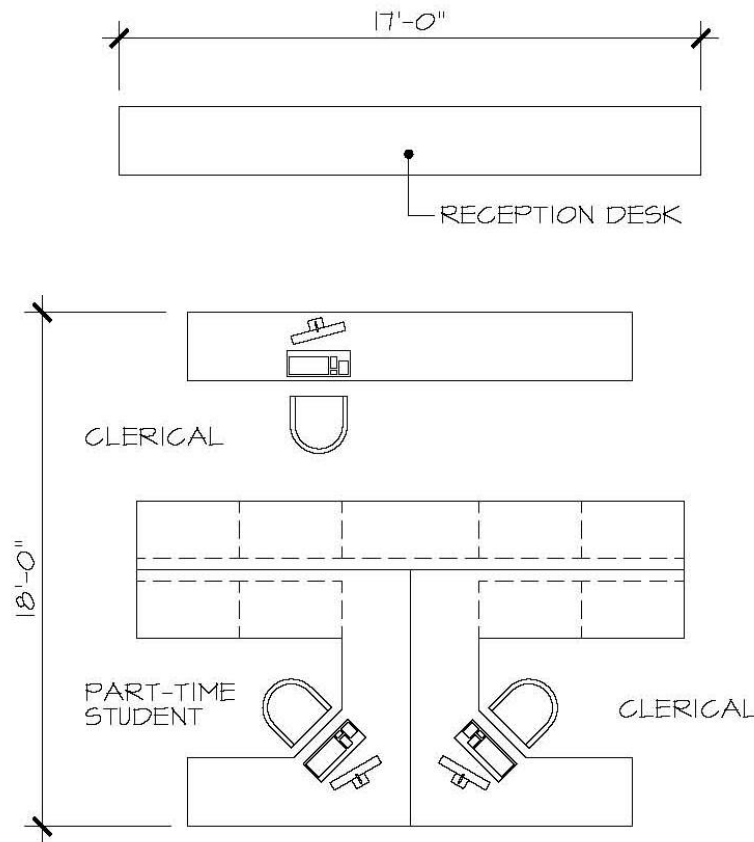
1.0 ADMINISTRATION

SPACE NAME: 1.03 Clerical Staff and Part-Time Student

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	Desk with 45° computer corner		3
	Desk Chair		3
	Reception Desk		1
	P.C.		3
	12" x 12" Stacked Mail Lockers		60+

SIZE / FUNCTIONAL DIAGRAM:



1.0 ADMINISTRATION

SPACE NAME: 1.04 File Room

FUNCTION: Filing area with desk for the
Tree-Ring Society.

PLUMBING/PROCESS PIPING:

SERVICE: N/A

SPECIAL: N/A

FIXTURES: N/A

SQUARE FOOTAGE REQUIREMENTS:

EXISTING: 165

REQ'D: 230

HVAC:

TEMP/HUMD: Air Conditioned Environment.

OCCUPANTS:

EXISTING: N/A

REQ'D: N/A

OTHER:

ENVIRONMENT:

FLOOR: Vinyl Composition Tile (VCT)

WALL: Gypsum Board

CEILING: Lay-In Acoustic

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Clerical Staff and
part-time student.

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: N/A

ELECTRICAL:

LIGHTING: General Fluorescent

POWER: 110 V Power Outlet at Desks

GROUNDING:

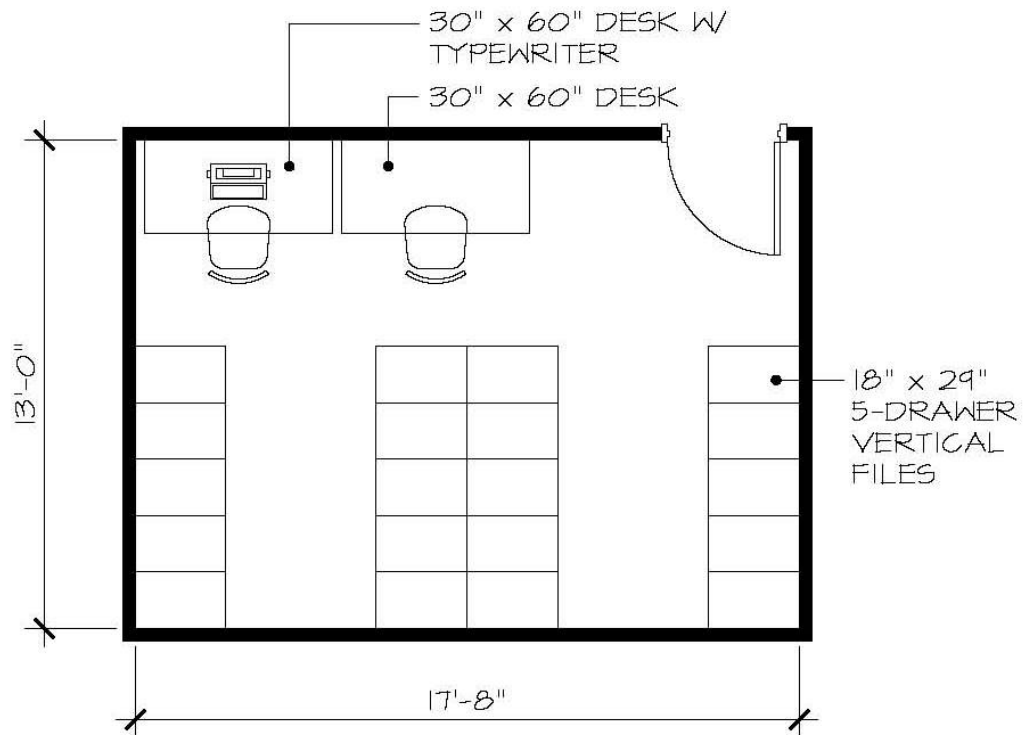
1.0 ADMINISTRATION

SPACE NAME: 1.04 File Room

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	30" x 60" Desks		2
	Desk Chairs		2
	18" x 29" - 5 Drawer Vertical Files		20
	Typewriter		1

SIZE / FUNCTIONAL DIAGRAM:



1.0 ADMINISTRATION

SPACE NAME: 1.05 Storage Room

FUNCTION: Space for general storage.

PLUMBING/PROCESS PIPING:

SERVICE: Cold Water; Sewer.

SPECIAL: N/A

FIXTURES: Sink

SQUARE FOOTAGE REQUIREMENTS:

HVAC:

EXISTING: ± 80

TEMP/HUMD: Air Conditioned Environment.

REQ'D: 80

OCCUPANTS:

OTHER:

EXISTING: N/A

REQ'D: N/A

ENVIRONMENT:

FLOOR: Vinyl Composition Tile (VCT)

WALL: Gypsum Board

CEILING: Lay-In Acoustic

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Clerical Staff and
part-time student.

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: N/A

ELECTRICAL:

LIGHTING: General Fluorescent

POWER: 110 V Power Outlets

GROUNDING:

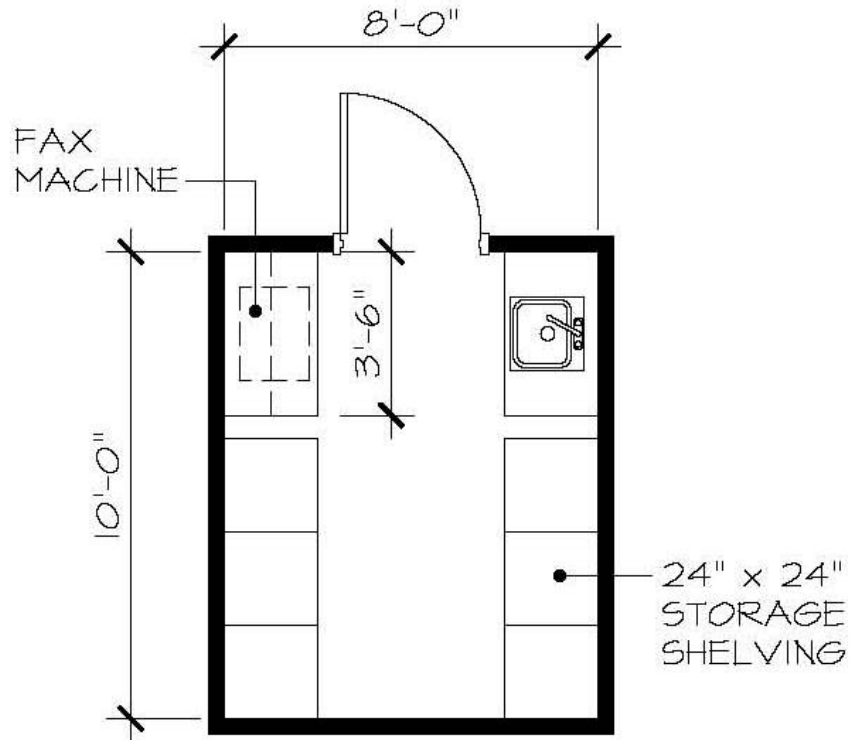
1.0 ADMINISTRATION

SPACE NAME: 1.05 Storage Room

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	24" x 24" Storage Shelves		6
	Base Cabinet		2
	Fax Machine		1

SIZE / FUNCTIONAL DIAGRAM:



1.0 ADMINISTRATION

SPACE NAME: 1.06 Reception Area

FUNCTION: Entry and reception area for the
Public.

PLUMBING/PROCESS PIPING:

SERVICE: N/A

SPECIAL: N/A

FIXTURES: N/A

SQUARE FOOTAGE REQUIREMENTS:

EXISTING: 0

REQ'D: 256

HVAC:

TEMP/HUMD: Air Conditioned Environment.

OCCUPANTS:

EXISTING: N/A

REQ'D: N/A

OTHER:

ENVIRONMENT:

FLOOR: Carpet

WALL: Gypsum Board

CEILING: Lay-In Acoustic

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Exterior

SECURITY: Lockable Exterior Door

COMMUNICATION:

TELEPHONE/DATA: Telephone Outlet

ELECTRICAL:

LIGHTING: General Fluorescent

POWER: 110 V Power Outlets

GROUNDING:

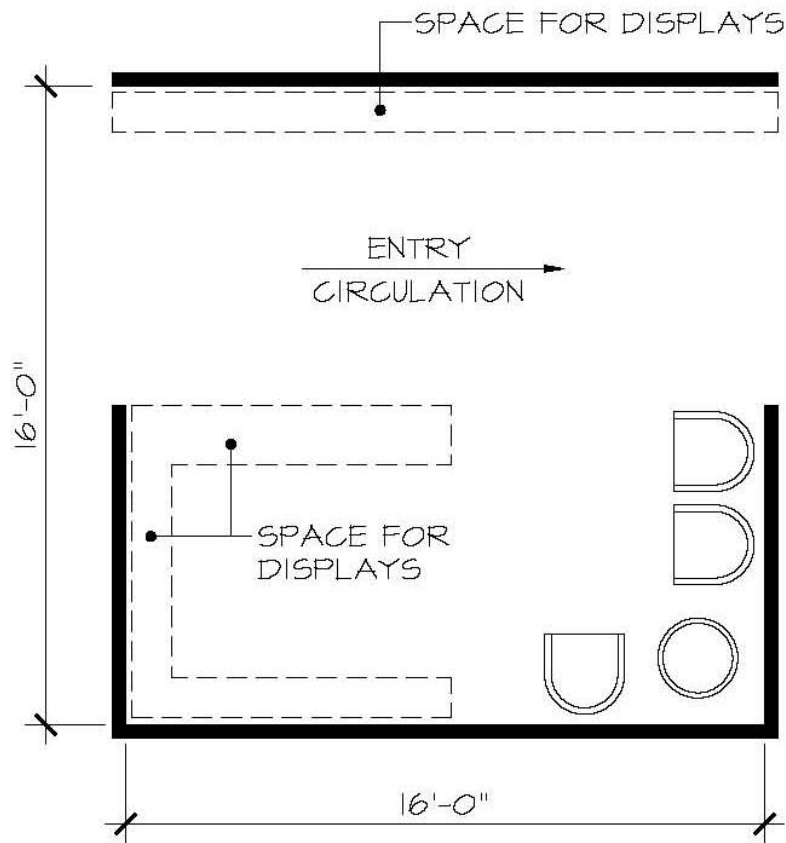
1.0 ADMINISTRATION

SPACE NAME: 1.06 Reception Area

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	Chairs		3

SIZE / FUNCTIONAL DIAGRAM:



2.0 OFFICES

- 2.01 Senior Facility Offices (2)
- 2.02 Principal Investigator Office – Large (3)
- 2.03 Principal Investigator Office - Small (6)
- 2.04 Post-Doctorate / Associate Office (5)
- 2.05 Visitor Office (3)
- 2.06 Graduate Student Cubicle (10)
- 2.07 Shared Conference (5)
- 2.08 Common Storage

2.0 OFFICES

SPACE NAME: 2.01 Senior Faculty Offices (2)

FUNCTION: Office space for Senior Faculty
Principal Investigators.

PLUMBING/PROCESS PIPING:

SERVICE: N/A

SPECIAL: N/A

FIXTURES: N/A

SQUARE FOOTAGE REQUIREMENTS:

EXISTING: Varies

REQ'D: 160 (Per A.B.O.R. Space Standards)

HVAC:

TEMP/HUMD: Air Conditioned Environment.

OCCUPANTS:

EXISTING: –

REQ'D: 2 (1 each office)

(Leavitt, Hughes)

OTHER: unnecessary

ENVIRONMENT:

FLOOR: Carpet

WALL: Gypsum Board

CEILING: Lay-In Acoustic

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Corridor / Departmental Offices

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: Telephone and Multiple Data
Connections

ELECTRICAL:

LIGHTING: General Fluorescent / Incandescent

POWER: 110 V Power Outlets

GROUNDING:

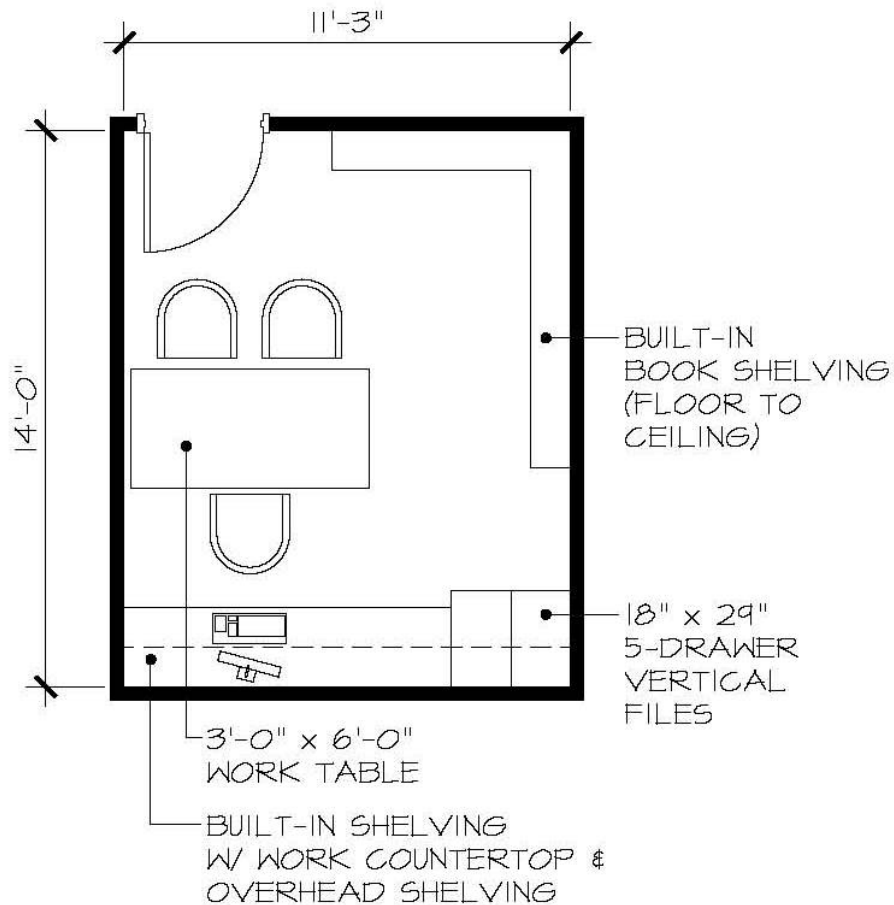
2.0 OFFICES

SPACE NAME: 2.01 Senior Faculty Offices (2)

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	Built-In Book Shelving		1
	Desk Chairs		3
	3'-0" x 6'-0" Work Table		1
	Built-In Shelves / Work Counter		1
	18" x 29" Vertical File Cabinets		2

SIZE / FUNCTIONAL DIAGRAM:



2.0 OFFICES

SPACE NAME: 2.02 Principal Investigator Office - Large (4)

FUNCTION: Office space for Principal Investigators. **PLUMBING/PROCESS PIPING:**

SERVICE: N/A

SPECIAL: N/A

FIXTURES: N/A

SQUARE FOOTAGE REQUIREMENTS:

EXISTING: Varies

REQ'D: 160 (Per A.B.O.R. Space Standards)

HVAC:

TEMP/HUMD: Air Conditioned Environment.

OCCUPANTS:

EXISTING: –

REQ'D: 3 (1 each office)

(Touchan, Sheppard, Panyushkina)

OTHER: unnecessary

ENVIRONMENT:

FLOOR: Carpet

WALL: Gypsum Board

CEILING: Lay-In Acoustic

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Corridor / Departmental Offices

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: Telephone and Multiple Data
Connections

ELECTRICAL:

LIGHTING: General Fluorescent / Incandescent

POWER: 110 V Power Outlets

GROUNDING:

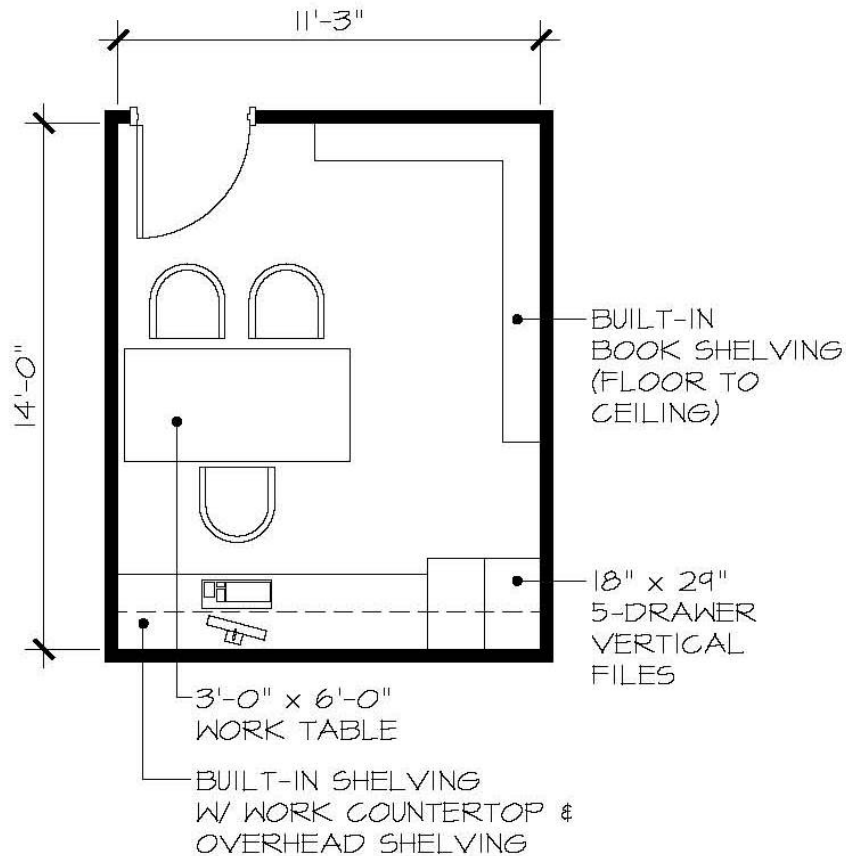
2.0 OFFICES

SPACE NAME: 2.02 Principal Investigator Office - Large (4)

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	Built-In Book Shelving		1
	Desk Chairs		3
	3'-0" x 6'-0" Work Table		1
	Built-In Shelves / Work Counter		1
	18" x 29" Vertical File Cabinets		2
	P.C. and Printer		1

SIZE / FUNCTIONAL DIAGRAM:



2.0 OFFICES

SPACE NAME: 2.03 Principal Investigator Offices – Small (6)

FUNCTION: Office space for Principal Investigators

PLUMBING/PROCESS PIPING:

SERVICE: N/A

SPECIAL: N/A

FIXTURES: N/A

SQUARE FOOTAGE REQUIREMENTS:

EXISTING: ± 115

REQ'D: 130 (per A.B.O.R. Space Standards)

HVAC:

TEMP/HUMD: Air Conditioned Environment.

OCCUPANTS:

EXISTING: –

REQ'D: 6 (1 each office)

(Woodhouse, Meko, Falk, Lynch,
Swetnam, Towner)

OTHER:

ENVIRONMENT:

FLOOR: Carpet

WALL: Gypsum Board

CEILING: Lay-In Acoustic

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Corridor / Departmental Offices

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: Telephone Data Connections

ELECTRICAL:

LIGHTING: General Fluorescent / Incandescent

POWER: 110 V Power Outlets

GROUNDING:

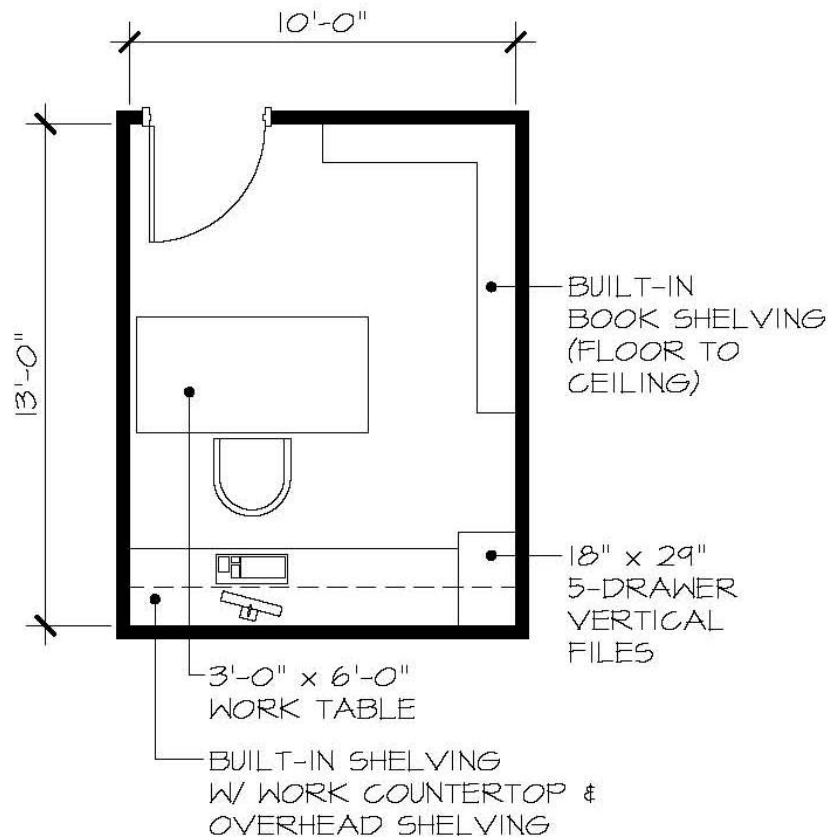
2.0 OFFICES

SPACE NAME: 2.03 Principal Investigator Offices – Small (6)

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	Built-In Book Shelving		1
	Desk Chair		1
	3'-0" x 6'-0" Work Table		1
	Built-In Shelves / Work Counter		1
	18" x 29" Vertical File Cabinets		1
	P.C. and Printer		1

SIZE / FUNCTIONAL DIAGRAM:



2.0 OFFICES

SPACE NAME: 2.04 Post-Doctorate / Associate Office (6)

FUNCTION: Office space for Post-Doctorate /
Associates.

PLUMBING/PROCESS PIPING:

SERVICE: N/A

SPECIAL: N/A

FIXTURES: N/A

SQUARE FOOTAGE REQUIREMENTS:

EXISTING: ± 115

REQ'D: 130 (per A.B.O.R. Space Standards)

HVAC:

TEMP/HUMD: Air Conditioned Environment.

OCCUPANTS:

EXISTING: –

REQ'D: 5 (1 each office)

OTHER:

ENVIRONMENT:

FLOOR: Carpet

WALL: Gypsum Board

CEILING: Lay-In Acoustic

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Corridor / Departmental
Offices

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: Telephone Data Connections

ELECTRICAL:

LIGHTING: General Fluorescent / Incandescent

POWER: 110 V Power Outlets

GROUNDING:

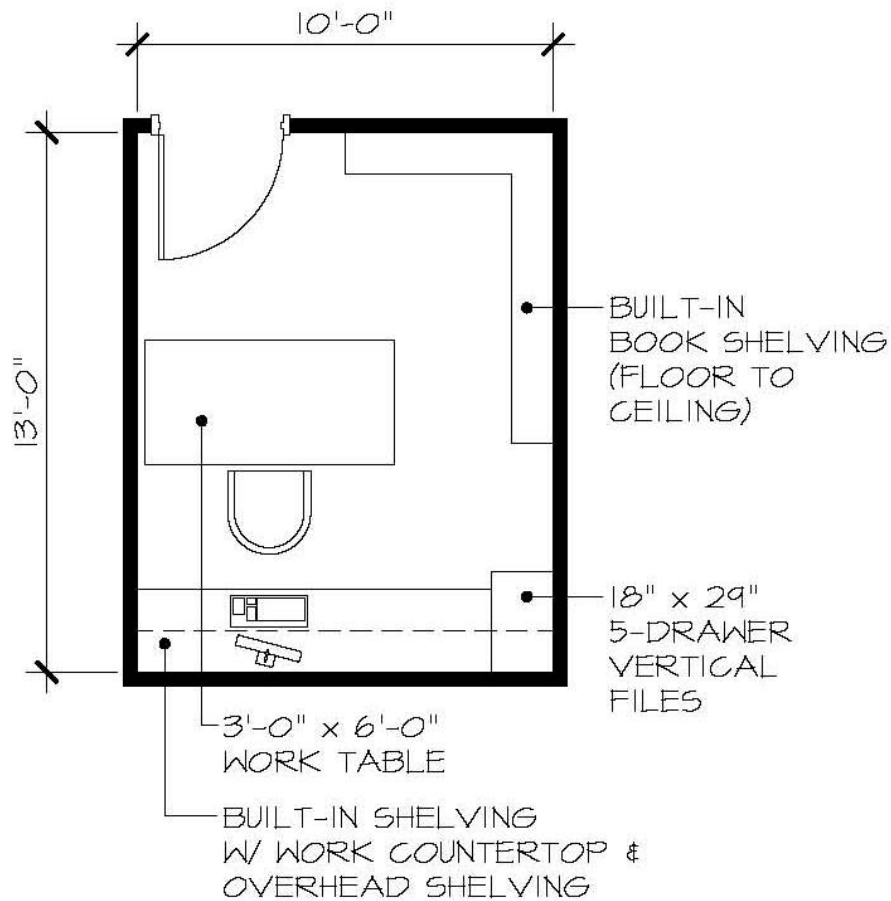
2.0 OFFICES

SPACE NAME: 2.04 Post-Doctorate / Associate Office (6)

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	Built-In Book Shelving		1
	Desk Chair		1
	3'-0" x 6'-0" Work Table		1
	Built-In Shelves / Work Counter		1
	18" x 29" Vertical File Cabinets		1
	P.C. and Printer		1

SIZE / FUNCTIONAL DIAGRAM:



2.0 OFFICES

SPACE NAME: 2.05 Visitor Office (3)

FUNCTION: Office space for visiting Faculty
Researchers

PLUMBING/PROCESS PIPING:

SERVICE: N/A

SPECIAL: N/A

FIXTURES: N/A

SQUARE FOOTAGE REQUIREMENTS:

EXISTING: ± 115

REQ'D: 130 (per A.B.O.R. Space Standards)

HVAC:

TEMP/HUMD: Air Conditioned Environment.

OCCUPANTS:

EXISTING: –

REQ'D: 5 (1 each office)

OTHER:

ENVIRONMENT:

FLOOR: Carpet

WALL: Gypsum Board

CEILING: Lay-In Acoustic

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Corridor / Departmental
Offices

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: Telephone Data Connections

ELECTRICAL:

LIGHTING: General Fluorescent / Incandescent

POWER: 110 V Power Outlets

GROUNDING:

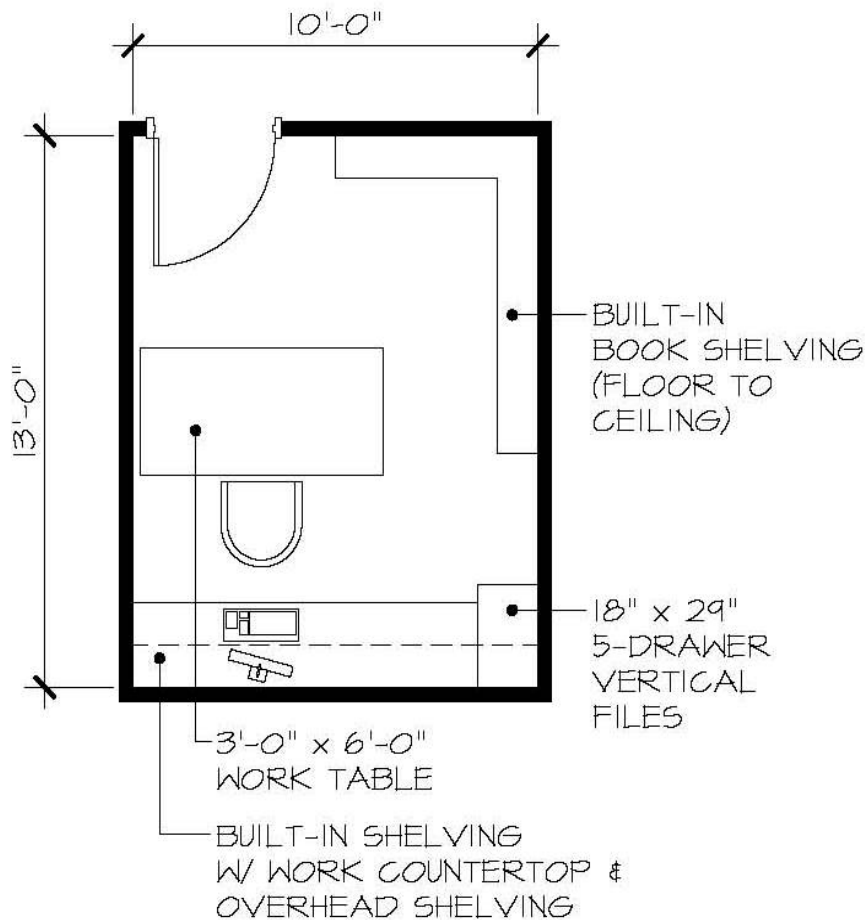
2.0 OFFICES

SPACE NAME: 2.05 Visitor Office (3)

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	Built-In Book Shelving		1
	Desk Chair		1
	3'-0" x 6'-0" Work Table		1
	Built-In Shelves / Work Counter		1
	18" x 29" Vertical File Cabinets		1
	P.C. and Printer		1

SIZE / FUNCTIONAL DIAGRAM:



2.0 OFFICES

SPACE NAME: 2.06 Graduate Student Cubicle (10)

FUNCTION: Office space for Graduate Students.

PLUMBING/PROCESS PIPING:

SERVICE: N/A

SPECIAL: N/A

FIXTURES: N/A

SQUARE FOOTAGE REQUIREMENTS:

EXISTING: ± 30

REQ'D: 55 (per A.B.O.R. Space Standards)

HVAC:

TEMP/HUMD: Air Conditioned Environment.

OCCUPANTS:

EXISTING: –

REQ'D: 10 (1 each space)

OTHER:

ENVIRONMENT:

FLOOR: Carpet

WALL: Gypsum Board

CEILING: Lay-In Acoustic

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Corridor

SECURITY: N/A

COMMUNICATION:

TELEPHONE/DATA: Telephone and Data

ELECTRICAL:

LIGHTING: General Fluorescent

POWER: 110 V Power Outlets

GROUNDING:

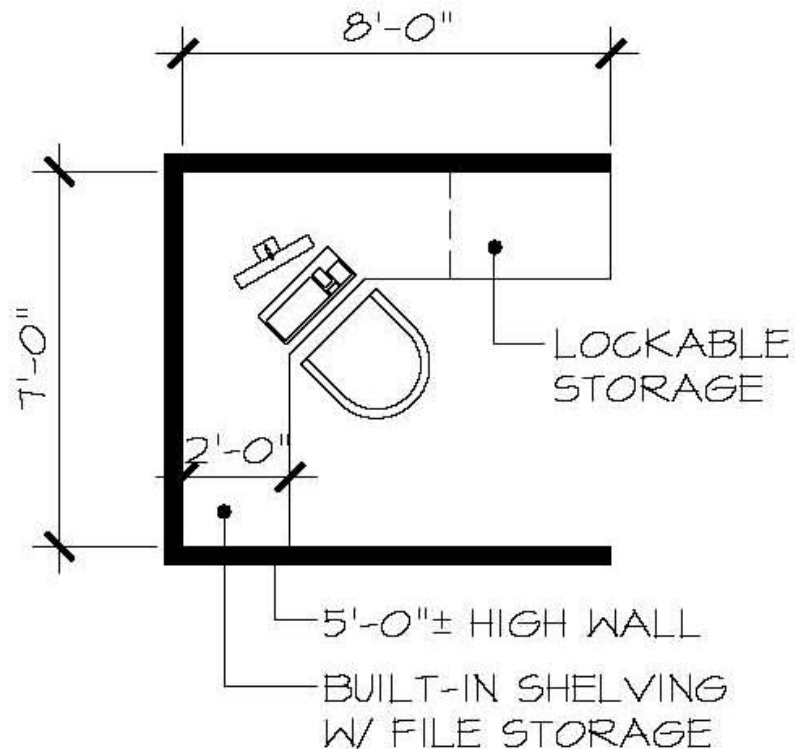
2.0 OFFICES

SPACE NAME: 2.06 Graduate Student Cubicle (10)

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	Built-In Shelves / Work Counter		1
	Desk Chair		1
	Lockable Storage		1
	P.C.		1

SIZE / FUNCTIONAL DIAGRAM:



2.0 OFFICES

SPACE NAME: 2.07 Shared Conference (5)

FUNCTION: Common area within office suites
for meetings and storage.

PLUMBING/PROCESS PIPING:

SERVICE: N/A

SPECIAL: N/A

FIXTURES: N/A

SQUARE FOOTAGE REQUIREMENTS:

EXISTING:

REQ'D: 144

HVAC:

TEMP/HUMD: Air Conditioned Environment.

OCCUPANTS:

EXISTING:

REQ'D: 0

OTHER:

ENVIRONMENT:

FLOOR: Carpet

WALL: Gypsum Board

CEILING: Lay-In Acoustic

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: PI Offices, Post Doc / Assoc.
Offices, Corridor

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: Telephone & Data

ELECTRICAL:

LIGHTING: General Fluorescent

POWER: 110 V Power Outlets

GROUNDING:

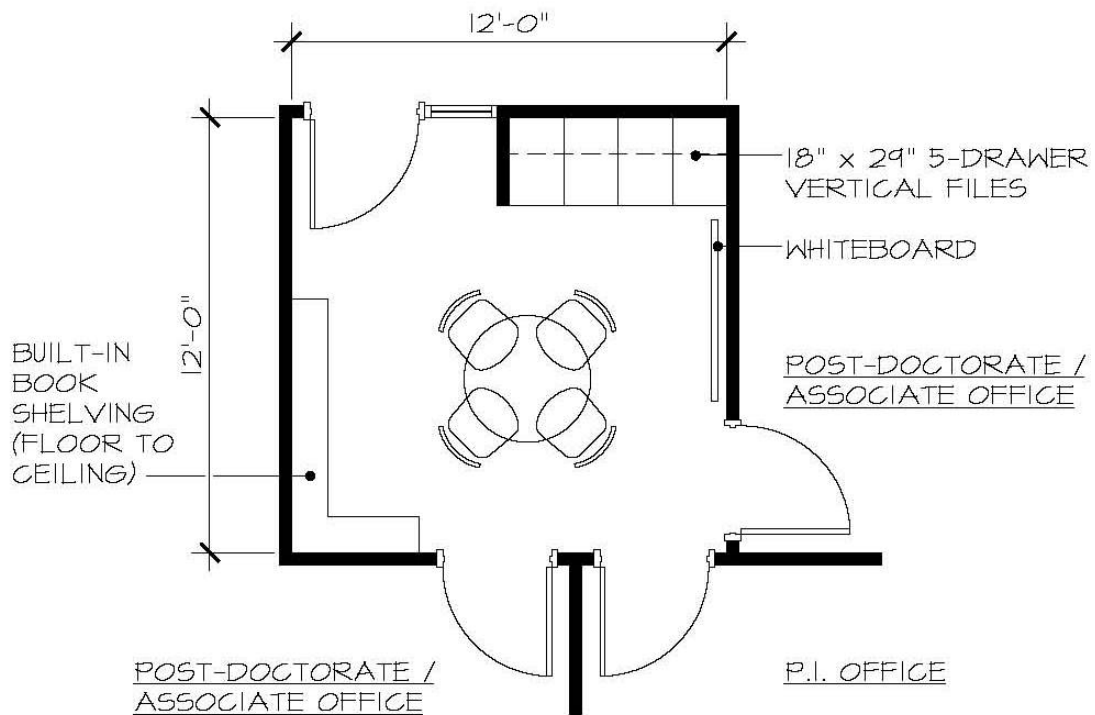
2.0 OFFICES

SPACE NAME: 2.07 Shared Conference (5)

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	3'-6" Diameter Table		1
	Chairs		4
	Built-In Book Shelves		1
	18" x 29" Vertical File Cabinets		4
	Whiteboard		1

SIZE / FUNCTIONAL DIAGRAM:



2.0 OFFICES

SPACE NAME: 2.08 Common Storage

FUNCTION: Space for general storage.
Field equipment storage.

PLUMBING/PROCESS PIPING:

SERVICE: N/A
SPECIAL: N/A
FIXTURES: N/A

SQUARE FOOTAGE REQUIREMENTS:

EXISTING:
REQ'D: 300

HVAC:

TEMP/HUMD: Air Conditioned Environment.

OCCUPANTS:

EXISTING: N/A
REQ'D: N/A

OTHER:

ENVIRONMENT:

FLOOR: Sealed Concrete
WALL: Gypsum Board
CEILING: Exposed Structure
CEILING HEIGHT: 8'-0" min.
INGRESS/EGRESS: Corridor
SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: N/A

ELECTRICAL:

LIGHTING: General Fluorescent
POWER: 110 V Power Outlets
GROUNDING:

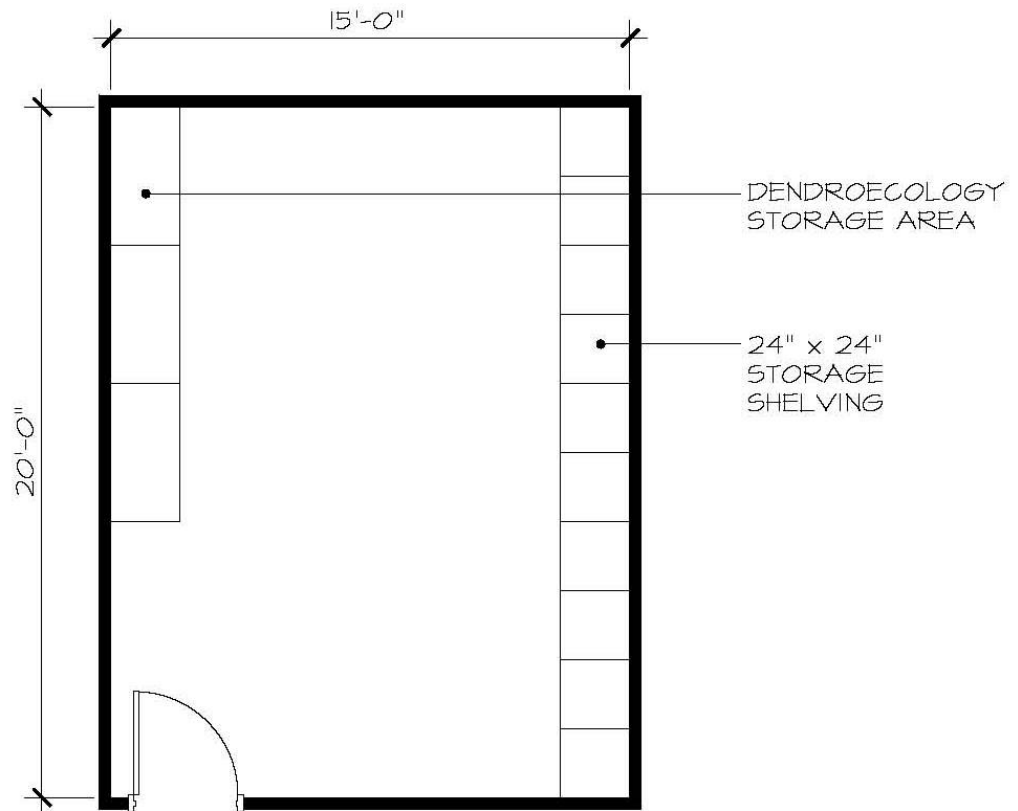
2.0 OFFICES

SPACE NAME: 2.08 Common Storage

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	24" x 24" Storage Shelves		10

SIZE / FUNCTIONAL DIAGRAM:



3.0 DRY LABORATORY SPACE

- 3.01 Hydroclimatology Laboratory
- 3.02 Dendrochemistry / Geological Applications Laboratory
- 3.03 Dendroecology Large Sample Laboratory
- 3.04 Dendroarcheology Laboratory
- 3.05 Dendroclimatology Laboratory
- 3.06 Measuring Laboratory / Densitometry
- 3.07 Entomology Laboratory

3.0 DRY LABORATORY SPACE

SPACE NAME: 3.01 Hydroclimatology Laboratory

FUNCTION: Dry Laboratory space for analysis of
small Tree-Ring samples.

PLUMBING/PROCESS PIPING:

SERVICE: Hot and cold water; Sewer

SPECIAL: N/A

FIXTURES: Double Basin Sink with Eyewash and
Sediment Trap

SQUARE FOOTAGE REQUIREMENTS:

EXISTING: ± 260 - 360

REQ'D: 800

HVAC:

TEMP/HUMD: Air Conditioned Environment

OCCUPANTS:

EXISTING: –

REQ'D: 9 Work Stations

1 P.I. (large office) – Touchan

2 P.I. (small office) – Woodhouse, Meko

0 Post Docs.

OTHER:

Vacuum for fine dust
(central system)

ENVIRONMENT:

FLOOR: Vinyl Composition Tile (VCT)

WALL: Gypsum Board with Epoxy Paint

CEILING: Lay-In Acoustic

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Corridor

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: Multiple Telephone and Data
Connections

ELECTRICAL:

LIGHTING: General Fluorescent

POWER: 110 V Power Outlets

GROUNDING:

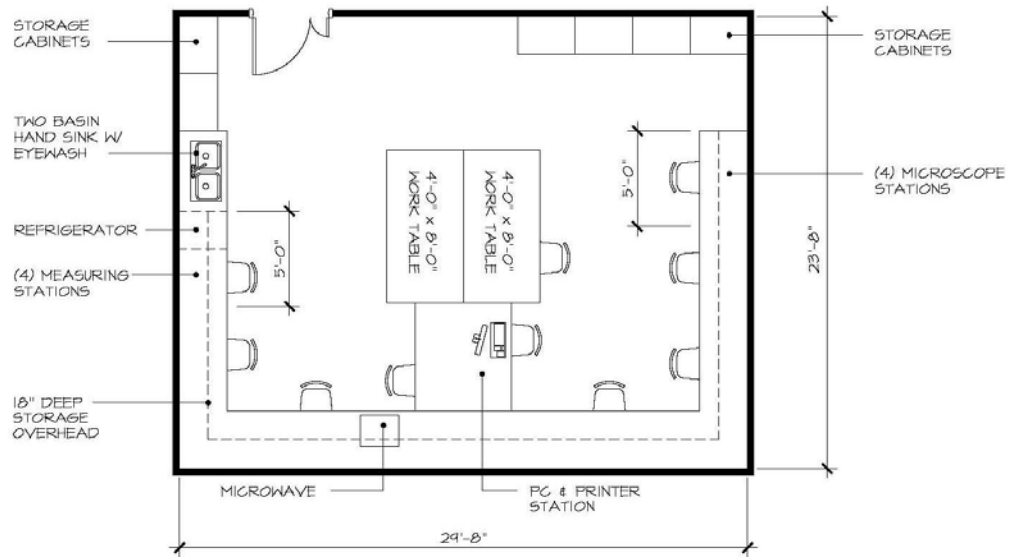
3.0 DRY LABORATORY SPACE

SPACE NAME: 3.01 Hydroclimatology Laboratory

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	Built-In Work Counter (2'-6" deep)		_____ L.F.
	3'-0" x 2'-0" x 6'-6" H. Metal Storage Cabinets		3
	18" Deep Overhead Storage Shelving		_____ L.F.
	Small Refrigerator under counter		1
	Chairs		9
	5'-0" x 2'-6" Measuring Stations (Computer)		4
	5'-0" x 2'-0" Microscope Stations		4
	5'-0" x 2'-0" PC & Printer Station		1
	36" x 48" Marker Boards		2
	4'-0" x 8'-0" Built-in Work Table with Elec. Outlet		2
	Countertop Microwave Oven		1

SIZE / FUNCTIONAL DIAGRAM:



3.01 - HYDROCLIMATOLOGY LABORATORY

3.0 DRY LABORATORY SPACE

SPACE NAME: 3.02 Dendrochemistry / Geological Applications Laboratory

FUNCTION: Dry Laboratory space for
Tree-Ring samples. Enclosed grinding
area to Homogenize Samples.

PLUMBING/PROCESS PIPING:

SERVICE: Hot and cold water; Sewer

SPECIAL:

FIXTURES: Double basin Sink 10'-12" deep with
Eyewash and Sediment Trap

SQUARE FOOTAGE REQUIREMENTS:

EXISTING:

REQ'D: 800

HVAC:

TEMP/HUMD: Air Conditioned Environment.

OCCUPANTS:

EXISTING:

REQ'D: 9 Work Stations

1 Senior Faculty – Leavitt

1 P.I. (large office) - Sheppard

2 Post Docs

OTHER:

Vacuum for fine dust

(central system)

Sound insulation in Grinding Room walls

ENVIRONMENT:

FLOOR: Vinyl Composition Tile (VCT)

WALL: Gypsum Board with Epoxy Paint

CEILING: Lay-In Acoustic (Gypsum Board in
Grinding Room)

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Corridor

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: Multiple Telephone and Data
Connections

ELECTRICAL:

LIGHTING: General Fluorescent

POWER: 110 V Power Outlets

GROUNDING:

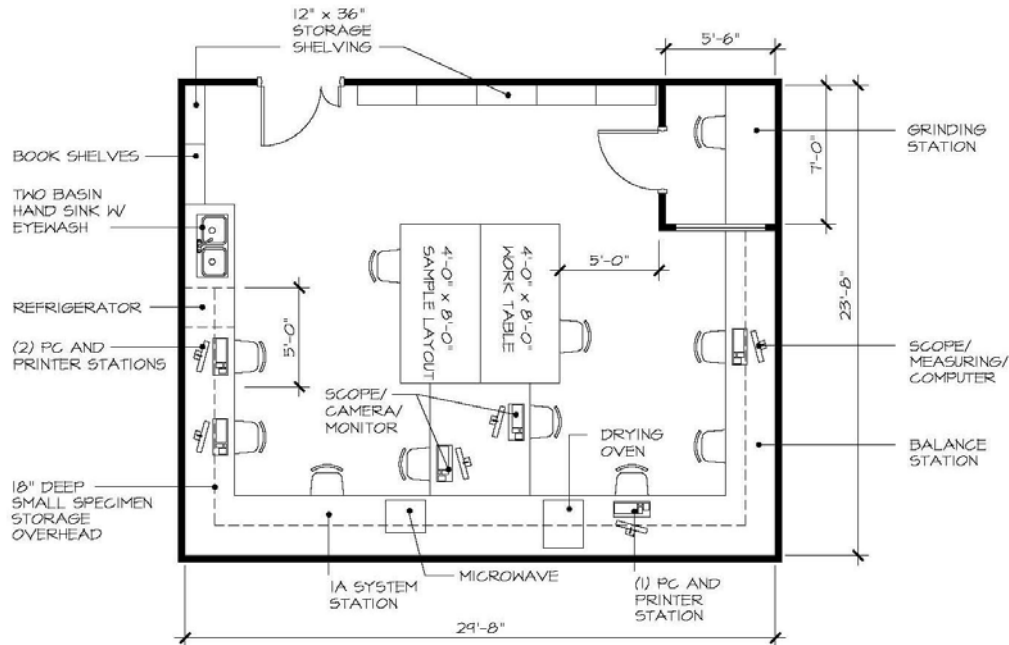
3.0 DRY LABORATORY SPACE

SPACE NAME: 3.02 Dendrochemistry / Geological Applications Laboratory

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	Built-In Work Counter (2'-6" deep)		_____ L.F.
	12" Deep Storage Shelving (Books)		25 L.F.
	18" Deep Storage Shelving		110 L.F.
	Chairs		9
	3'-0" x 1'-0" x 6'-6" H. Metal Storage Shelving		10
	5'-0" x 2'-6" Balance Station		1
	5'-0" x 2'-6" Scope / Measuring / Computer		1
	5'-0" x 2'-6" Scope / Camera / Monitor		2
	5'-0" x 2'-6" PC and printer		3
	5'-0" x 2'-6" I.A. System Station		1
	Microwave (counter top)		1
	Half-size Refrigerator (under counter)		1
	7'-0" x 2'-6" Grinding Station (Mill)		1
	Filing Cabinets		6
	36" x 48" Marker Board		2
	36" x 48" Cork Boards		2
	4'-0" x 8'-0" Sample Layout Table		2
	Drying Oven (counter top)		1

SIZE / FUNCTIONAL DIAGRAM:



3.0 DRY LABORATORY SPACE

SPACE NAME: 3.03 Dendroecology / Large Sample Laboratory

FUNCTION: Dry Laboratory space for analysis of
Large Tree-Ring samples and
Entomological Analysis

PLUMBING/PROCESS PIPING:

SERVICE: Hot and cold water; Sewer

SPECIAL:

FIXTURES: Double Basin (1 deep) Utility Sink
with Eyewash and Sediment Trap

SQUARE FOOTAGE REQUIREMENTS:

EXISTING:

REQ'D: 800

HVAC:

TEMP/HUMD: Air Conditioned Environment.

OCCUPANTS:

EXISTING:

REQ'D: 10 Work Stations

2 P.I (small office) - Falk, Swetnam

OTHER:

Vacuum for fine dust

(Central system)

ENVIRONMENT:

FLOOR: Vinyl Composition Tile (VCT)

WALL: Gypsum Board with Epoxy Paint

CEILING: Lay-In Acoustic

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Corridor

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: Multiple Telephone and Data
Connections

ELECTRICAL:

LIGHTING: General Fluorescent

POWER: 110 V Power Outlets

GROUNDING:

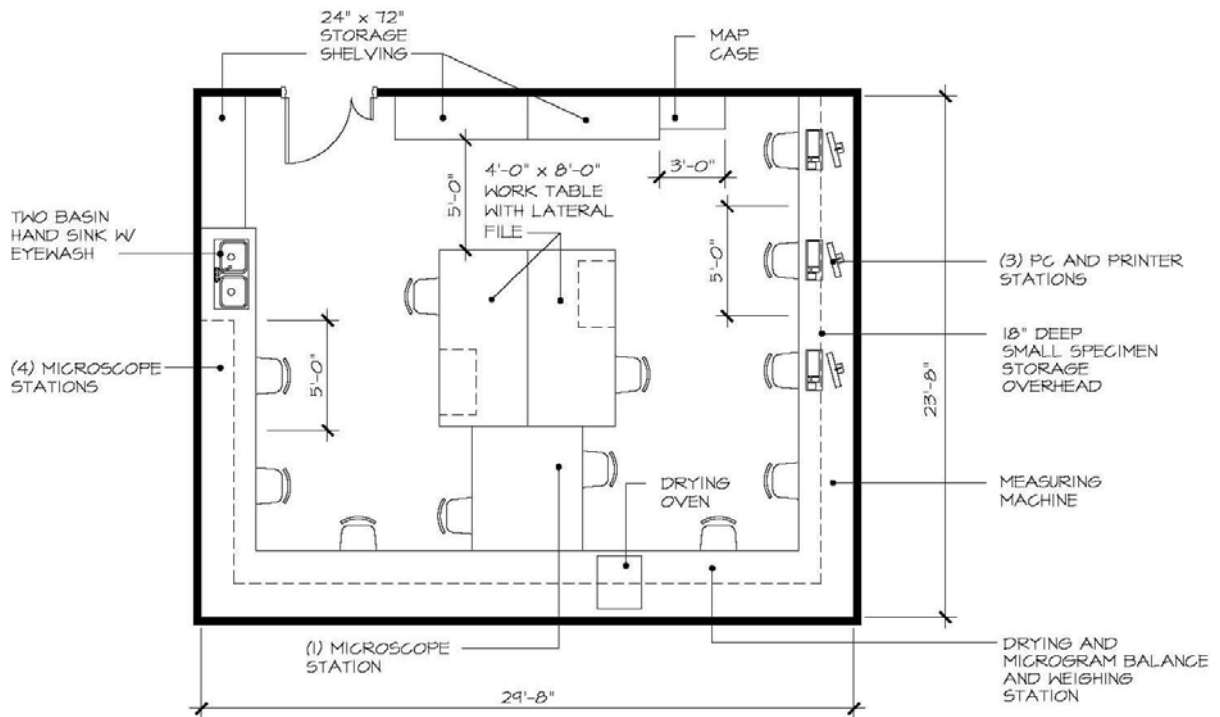
3.0 DRY LABORATORY SPACE

SPACE NAME: 3.03 Dendroecology / Large Sample Laboratory

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	Built-In Work Counter (2'-6" deep)		_____ L.F.
	4'-0" x 8'-0" Work Table (can be work stations)		2
	Chairs		10
	5'-0" x 2'-6" Microscope Stations		5
	5'-0" x 2'-6" PC and Printer Stations		3
	5'-0" x 2'-6" Measuring Machine / PC Station		1
	5'-0" x 2'-6" Drying and Microgram Balance and Weighing Station		1
	36" x 48" Cork Board		1
	36" x 48" White Board		1
	24" Deep Large Specimen Storage Shelves (heavy duty)		100 L.F.
	18" Deep Core / Small Specimen Storage Shelves		80 L.F.
	2'-0" x 4'-0" x 7'-0" Field Gear Storage Cabinets (remote, 2.08)		3
	Case for Hanging Maps (size 18"Dx36"Wx48"H)		1
	Filing Cabinets (lateral)		2
	Drying Oven		1

SIZE / FUNCTIONAL DIAGRAM:



3.0 DRY LABORATORY SPACE

SPACE NAME: 3.04 Dendroarcheology Laboratory

FUNCTION: Dry Laboratory Space for Archeology.

Enclosed "Dirty" area for two
Microscope Stations.

PLUMBING/PROCESS PIPING:

SERVICE: Hot and cold water; Sewer

SPECIAL:

FIXTURES: Double Basin Utility Sink with
Eyewash and Sediment Trap

SQUARE FOOTAGE REQUIREMENTS:

EXISTING:

REQ'D: 525

HVAC:

TEMP/HUMD: Air Conditioned Environment.

OCCUPANTS:

EXISTING:

REQ'D: 6 Work Stations

1 P.I. (large office) – Panyushkina
1 P.I. (small office) - Towner
1 Post Doc.

OTHER:

Vacuum for fine dust
(central system)

ENVIRONMENT:

FLOOR: Vinyl Composition Tile (VCT)

WALL: Gypsum Board with Epoxy Paint

CEILING: Lay-In Acoustic (Gypsum Board in
"Dirty Area")

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Corridor

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: Multiple Telephone and Data
connections

ELECTRICAL:

LIGHTING: General Fluorescent

POWER: 110 V Power Outlets

GROUNDING:

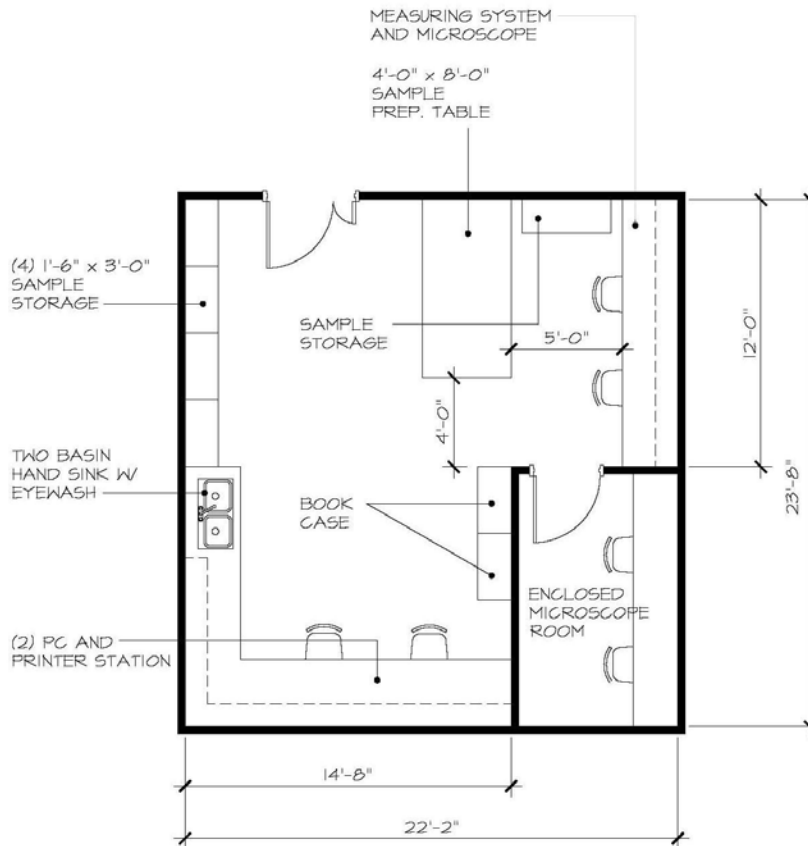
3.0 DRY LABORATORY SPACE

SPACE NAME: 3.04 Dendroarcheology Laboratory

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	Built-In Work Counter (2'-6" deep)		_____ L.F.
	4'-0" x 8'-0" Sample Prep. Table (one in dirty area)		2
	18" Deep Wood Sample Storage Shelving (heavy duty)		_____ L.F.
	18" x 36" x 84" H. Storage Cabinet		4
	Chairs		7
	5'-0" x 2'-6" Microscope Station (dirty area)		2
	5'-0" x 2'-6" PC and Printer Station		2
	5'-0" x 2'-6" Measuring System and Microscope		2
	36" x 48" Marker Board		1
	18" x 48" Cork Board		1
	Filing Cabinets 2-drawer high (under counter)		5
	12" x 36" x 84" H. Book Case		2
	10" x 24" x 24" Open Shelve Unit (over counter)		7
	12" x 24" x 30" Open Shelve Unit (over counter)		7

SIZE / FUNCTIONAL DIAGRAM:



3.0 DRY LABORATORY SPACE

SPACE NAME: 3.05 Dendroclimatology Laboratory

FUNCTION: Dry Laboratory space for basic

Dendrochronology and Wood Anatomy

PLUMBING/PROCESS PIPING:

SERVICE: Hot and cold water; Sewer

SPECIAL:

SQUARE FOOTAGE REQUIREMENTS:

EXISTING:

REQ'D: 525

FIXTURES: Double Sink with Eyewash and
Sediment Trap

HVAC:

TEMP/HUMD: Air Conditioned Environment.

Filter out dust (not a clean room)

OCCUPANTS:

REQ'D: 6 Work Stations

1 Senior Faculty (Hughes)

2 Post Docs.

OTHER:

Vacuum for fine dust (central system)

* Proximity to Micro Densitometry equipment is
desired.

* Prefer P.I. office close to Lab if possible.

* Provide optical table or isolation slab for I.A.
System and Wood Anatomy Microscope

ENVIRONMENT:

FLOOR: Vinyl Composition Tile (VCT)

WALL: Gypsum Board with Epoxy Paint

CEILING: Lay-In Acoustic

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Corridor

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: Multiple Telephone and Data
Connections

ELECTRICAL:

LIGHTING: General Fluorescent

– Strong light at work surface – 100 F.C.

– Light spectrum - not critical

POWER: 110 V Power Outlets

GROUNDING:

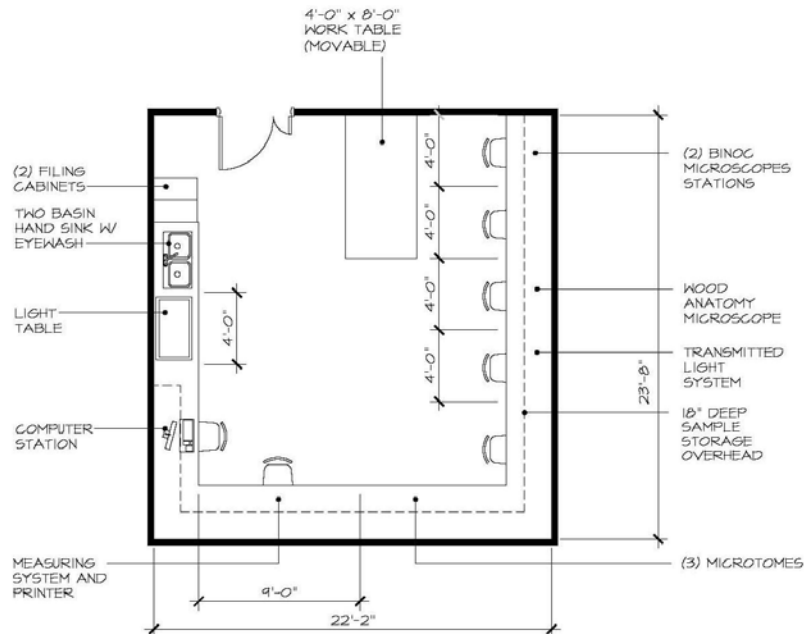
3.0 DRY LABORATORY SPACE

SPACE NAME: 3.05 Dendroclimatology Laboratory

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	Built-In Work Counter (2'-6" deep)		_____ L.F.
	4'-0" x 8'-0" Work Table		1
	18" Sample Storage Shelving		_____ 80 L.F.
	Chairs		10
	4'-0" x 2'-6" Binoc Microscope Station		1
	6'-0" x 2'-6" Measuring System Station		1
	3'-0" x 2'-6" Measuring System Printer		1
	4'-0" x 2'-6" Wood Anatomy Microscope Station (anti-vibration required)		1
	4'-0" x 2'-6" Transmitted Light (I.A.) System & Computer Station (anti-vibration required)		1
	3'-0" x 2'-6" Microtomes (counter top)		3
	3'-0" x 2'-6" Computer Station		1
	4'-0" x 2'-0" Light Table Work Station		1
	Filing Cabinets		2

SIZE / FUNCTIONAL DIAGRAM:



3.05 - DENDROCLIMATOLOGY LABORATORY

3.0 DRY LABORATORY SPACE

SPACE NAME: 3.06 Measuring Laboratory / Densitometry

FUNCTION: Dry Laboratory space for measuring samples. Densitometry Unit will be located in this lab.

PLUMBING/PROCESS PIPING:

SERVICE: N/A

SPECIAL:

FIXTURES: N/A

SQUARE FOOTAGE REQUIREMENTS:

EXISTING:

REQ'D: 525

HVAC:

TEMP/HUMD: Air Conditioned Environment.

OCCUPANTS:

EXISTING:

REQ'D: 3 Work Stations

OTHER:

ENVIRONMENT:

FLOOR: Vinyl Composition Tile (VCT)

WALL: Gypsum Board with Epoxy Paint

CEILING: Lay-In Acoustic

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Corridor

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: Multiple Telephone and Data Connections

ELECTRICAL:

LIGHTING: General Fluorescent

POWER: 110 V Power Outlets

GROUNDING:

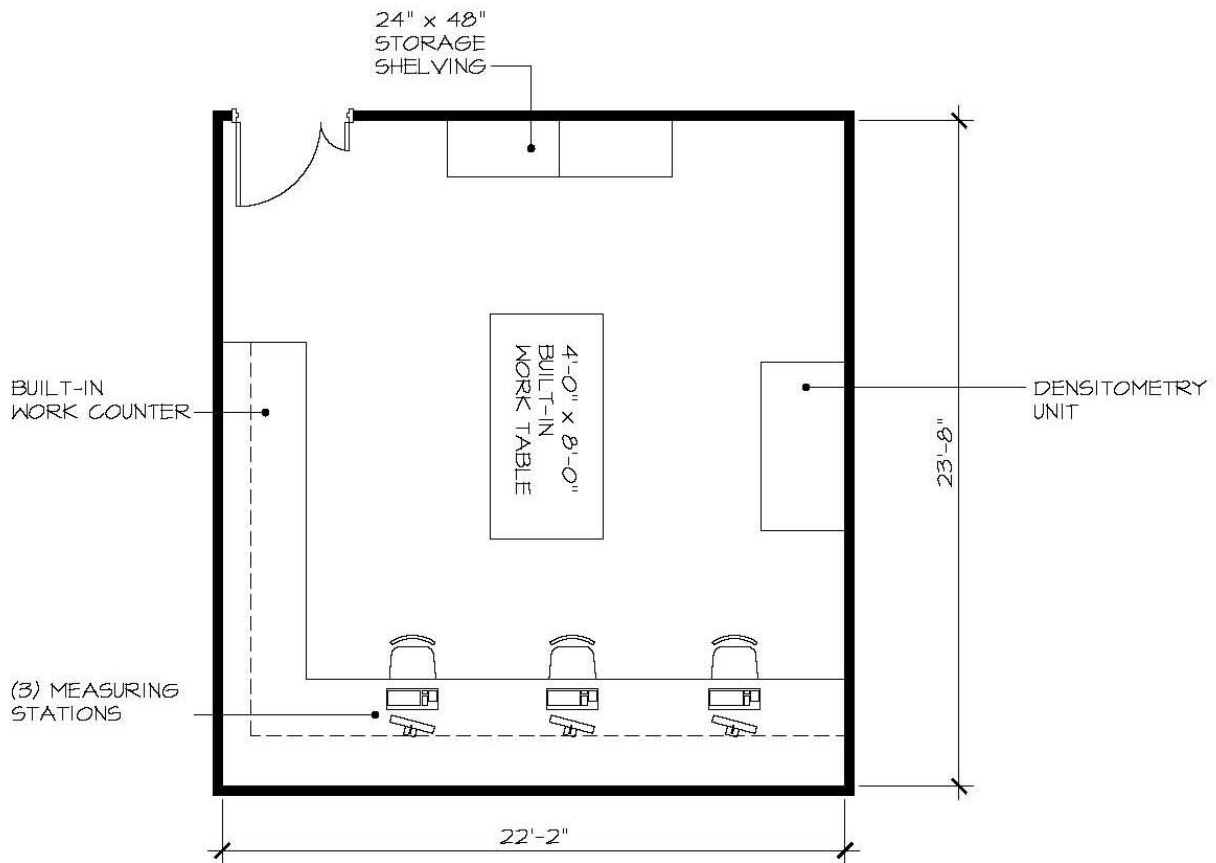
3.0 DRY LABORATORY SPACE

SPACE NAME: 3.06 Measuring Laboratory / Densitometry

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	Built-In Work Counter (2'-6" deep)		_____ L.F.
	4'-0" x 8'-0" Work Table		1
	24" x 48" Storage Shelving		2
	Chairs		3
	5'-0" x 2'-6" Measuring Station / Computer		3
	6'-0"L x 3'-0"W x 6'-0"H Densitometry Unit		1

SIZE / FUNCTIONAL DIAGRAM:



3.0 DRY LABORATORY SPACE

SPACE NAME: 3.07 Entomology Laboratory

FUNCTION: Dry Laboratory space for Entomology
(for use by the U.S.F.S.).

PLUMBING/PROCESS PIPING:

SERVICE: Cold water; Sewer

SPECIAL: N/A

FIXTURES: Dishwasher, 2 Comp. sink

With Eyewash and Sediment Trap.

Refrigerator & Chest Freezer

SQUARE FOOTAGE REQUIREMENTS:

EXISTING: 400

REQ'D: 400

HVAC:

TEMP/HUMD: Air Conditioned Environment

OCCUPANTS:

EXISTING:

REQ'D: 2 Workstations

1 P.I. (large office) - Lynch

1 Post-Doc.

OTHER:

ENVIRONMENT:

FLOOR: Vinyl Composition Tile (VCT)

WALL: Gypsum Board with Epoxy Paint

CEILING: Lay-in Acoustic

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Corridor

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: Multiple Telephone and Data
connections

ELECTRICAL:

LIGHTING: General Fluorescent

POWER: 110V Power Outlets

GROUNDING:

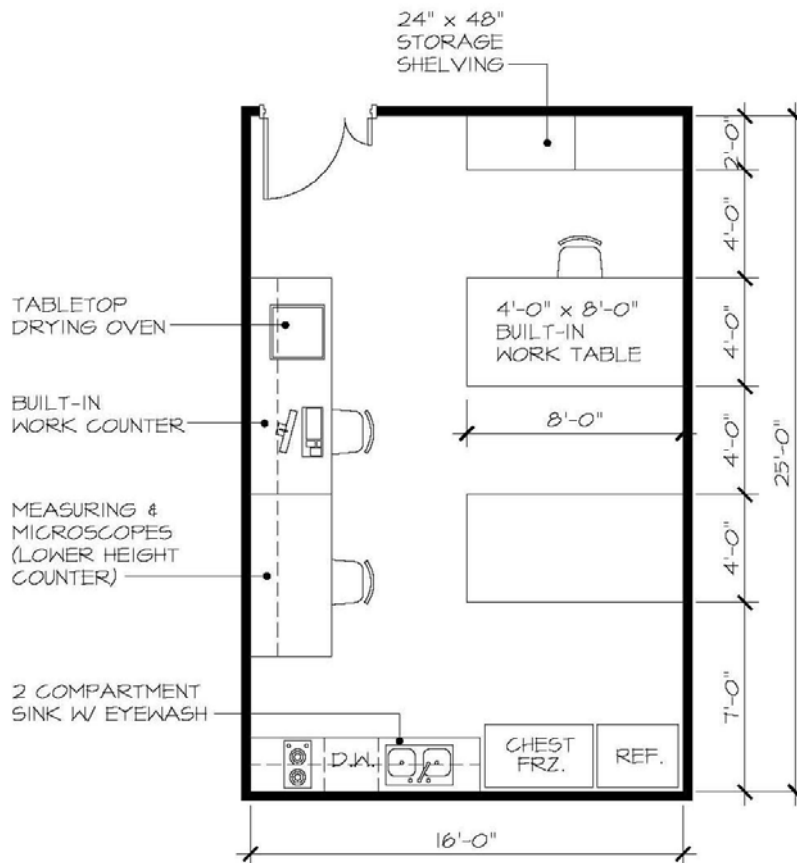
3.0 DRY LABORATORY SPACE

SPACE NAME: 3.07 Entomology Laboratory

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	Built-in Work Counter		1
	4'-0" x 8'-0" Work Table		2
	24' x 48" Storage Shelving		2
	Tabletop Drying Oven		1
	2-Burner Cook Top		1
	Measuring & Microscopes Counter		1
	Refrigerator		1
	Chest Freezer		1
	Chairs		3

SIZE / FUNCTIONAL DIAGRAM:



4.0 WET LABORATORY SPACE

- 4.01 Common Wet Laboratory (Deferred)
- 4.02 X-Ray Densitometry Laboratory - (now 3.06)
- 4.03 X-Ray Room (Existing) - (now 3.06)
- 4.04 Optical Microscopy Laboratory - (now 3.06)
- 4.05 Grinding Workroom - (now 3.02)

5.0 MISCELLANEOUS WORK ROOMS & ARCHIVES

- 5.01 Archival and Wood Preparation Shop - (Deferred)
- 5.02 Equipment Storage / Maintenance - (Deferred)
- 5.03 Mechanical Equipment Room - (Deferred)

6.0 COMMON AREAS

- 6.01 Multi-Purpose Room - (Deferred)
- 6.02 Library / Shared Conference Room (Deferred)
- 6.03 Staff Lounge
- 6.04 Copy / Printer Room
- 6.05 Men / Women Restroom and Showers
- 6.06 Gender Neutral Restroom
- 6.07 Janitor's Closet
- 6.08 Electrical Equipment Room
- 6.09 UITS Room
- 6.10 Server Room

6.0 COMMON AREAS

SPACE NAME: 6.03 Staff Lounge

FUNCTION: Space for Personnel to have lunch.

PLUMBING/PROCESS PIPING:

SERVICE: Cold water; Sewer

SPECIAL:

FIXTURES: 2 comp. sink

SQUARE FOOTAGE REQUIREMENTS:

HVAC:

EXISTING:

TEMP/HUMD: Air Conditioned Environment

REQ'D: 200

OTHER:

OCCUPANTS:

EXISTING:

REQ'D: 8 Staff

ENVIRONMENT:

FLOOR: Vinyl Composition Tile (VCT)

WALL: Gypsum Board

CEILING: Lay-In Acoustic

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Offices, Corridor

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: Telephone

ELECTRICAL:

LIGHTING: General Fluorescent

POWER: 110 V Power Outlets (GFI)

GROUNDING:

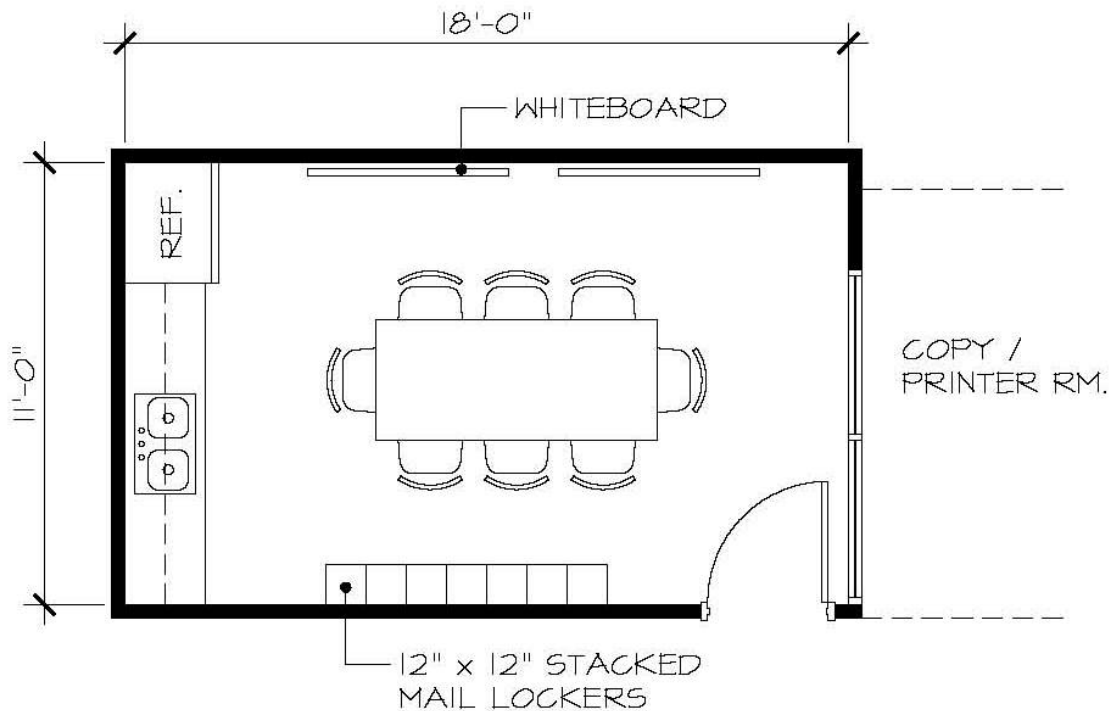
6.0 COMMON AREAS

SPACE NAME: 6.03 Staff Lounge

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	3'-0" x 7'-0" Table		1
	Chairs		8
	Built-in Counter		1
	Whiteboards		2

SIZE / FUNCTIONAL DIAGRAM:



6.0 COMMON AREAS

SPACE NAME: 6.04 Copy / Printer Room / Mail Room

FUNCTION: Space for copy machine and network printers.

PLUMBING/PROCESS PIPING:

SERVICE: N/A

SPECIAL: N/A

FIXTURES: N/A

SQUARE FOOTAGE REQUIREMENTS:

EXISTING:

REQ'D: 140

HVAC:

TEMP/HUMD: Air Conditioned Environment

OTHER:

OCCUPANTS:

EXISTING:

REQ'D: N/A

ENVIRONMENT:

FLOOR: Vinyl Composition Tile (VCT)

WALL: Gypsum Board

CEILING: Lay-In Acoustic

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Offices, Corridor

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: Data

ELECTRICAL:

LIGHTING: General Fluorescent

POWER: 110 V Power Outlets (GFI)

GROUNDING:

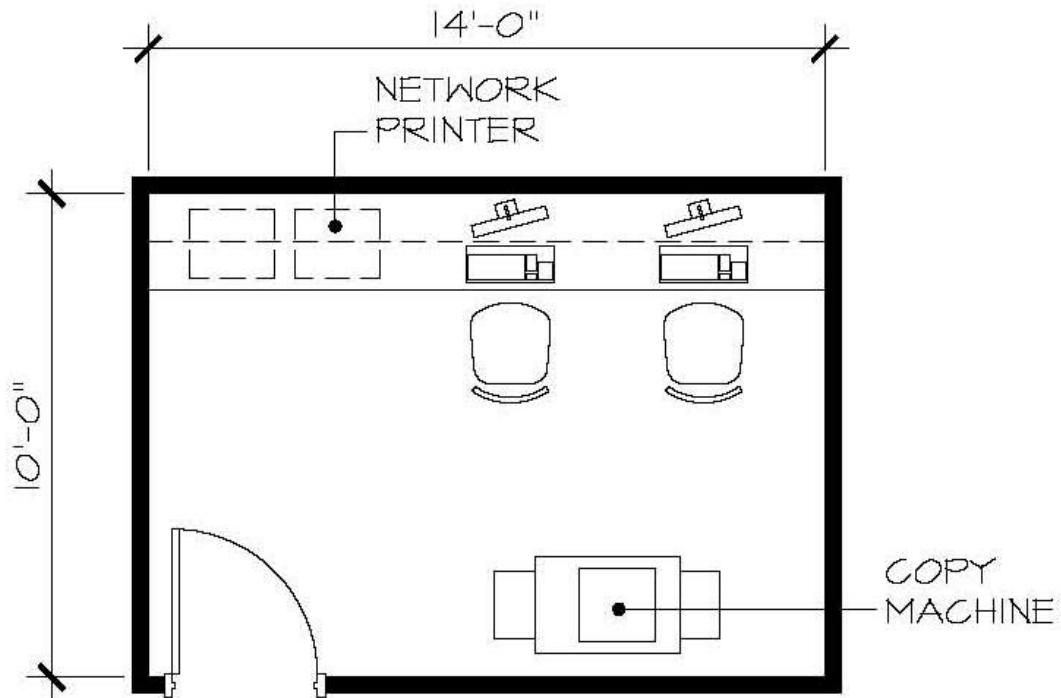
6.0 COMMON AREAS

SPACE NAME: 6.04 Copy / Printer Room / Mail Room

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	Copy Machines		2
	Built-In Work Counter		1
	Built-In Shelving		1
	Network Printers		2
	Paper Cutter and Miscellaneous		1

SIZE / FUNCTIONAL DIAGRAM:



6.0 COMMON AREAS

SPACE NAME: 6.05 Men / Women Restroom and Showers

FUNCTION: Toilet and shower facilities for
Student and Staff ADA accessible.

PLUMBING/PROCESS PIPING:

SERVICE: Hot and cold water; Sewer

SPECIAL: N/A

FIXTURES: Toilets, Sinks, Urinals, Showers

SQUARE FOOTAGE REQUIREMENTS:

EXISTING:

REQ'D: 350

HVAC:

TEMP/HUMD: Air Conditioned Environment

OTHER:

OCCUPANTS:

EXISTING: N/A

REQ'D: N/A

ENVIRONMENT:

FLOOR: Sheet Vinyl with Cove Base

WALL: Gypsum Board with Epoxy Paint

CEILING: Gypsum Board with Epoxy Paint

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Corridor

SECURITY: N/A

COMMUNICATION:

TELEPHONE/DATA: N/A

ELECTRICAL:

LIGHTING: General Fluorescent

POWER: 110 V Power Outlets (GFI)

GROUNDING:

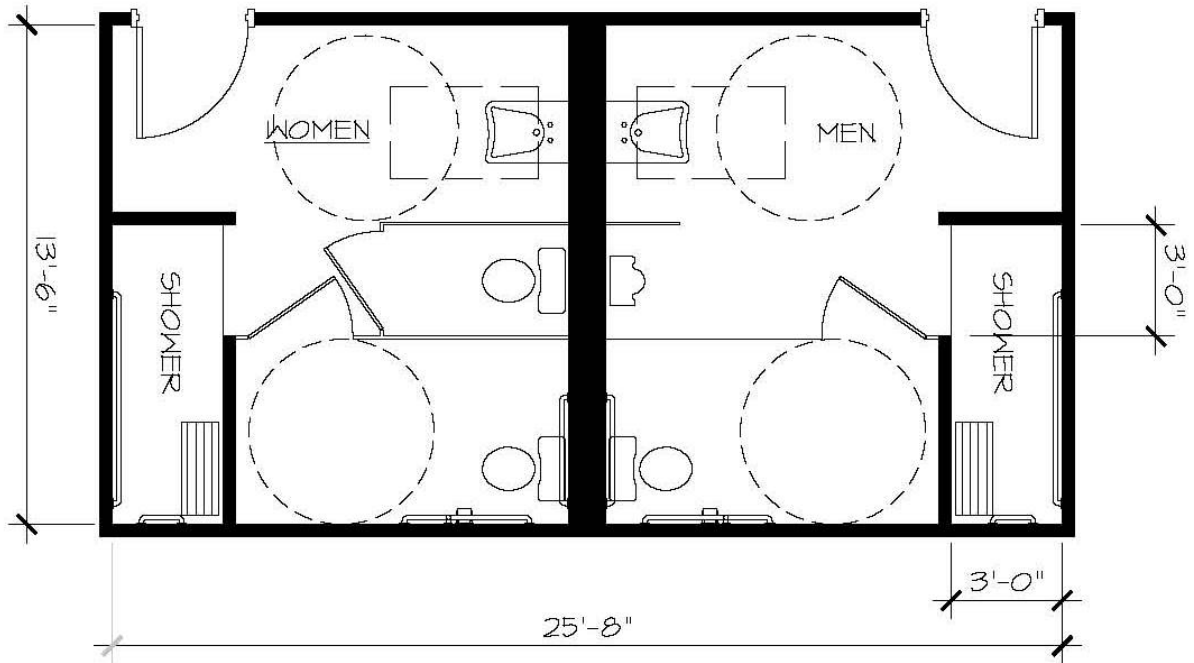
6.0 COMMON AREAS

SPACE NAME: 6.05 Men / Women Restroom and Showers

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	Sink		2
	H/C Toilet Stall		2
	Regular Toilet Stall		1
	Urinal		1
	Mirror		2
	Drinking Fountain		1
	Shower		2

SIZE / FUNCTIONAL DIAGRAM:



6.0 COMMON AREAS

SPACE NAME: 6.06 Gender Neutral Restroom

FUNCTION: Gender neutral toilet facilities for
Students and Staff.
ADA Accessible.

PLUMBING/PROCESS PIPING:

SERVICE: Cold water; Sewer

SPECIAL: N/A

FIXTURES: Toilets, Sinks, Urinals

SQUARE FOOTAGE REQUIREMENTS:

EXISTING:

REQ'D: 125

HVAC:

TEMP/HUMD: Air Conditioned Environment

OTHER:

OCCUPANTS:

EXISTING: N/A

REQ'D: N/A

ENVIRONMENT:

FLOOR: Sheet Vinyl with Cove Base

WALL: Gypsum Board with Epoxy Paint

CEILING: Gypsum Board with Epoxy Paint

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Corridor

SECURITY: N/A

COMMUNICATION:

TELEPHONE/DATA: N/A

ELECTRICAL:

LIGHTING: General Fluorescent

POWER: 110 V Power Outlets (GFI)

GROUNDING:

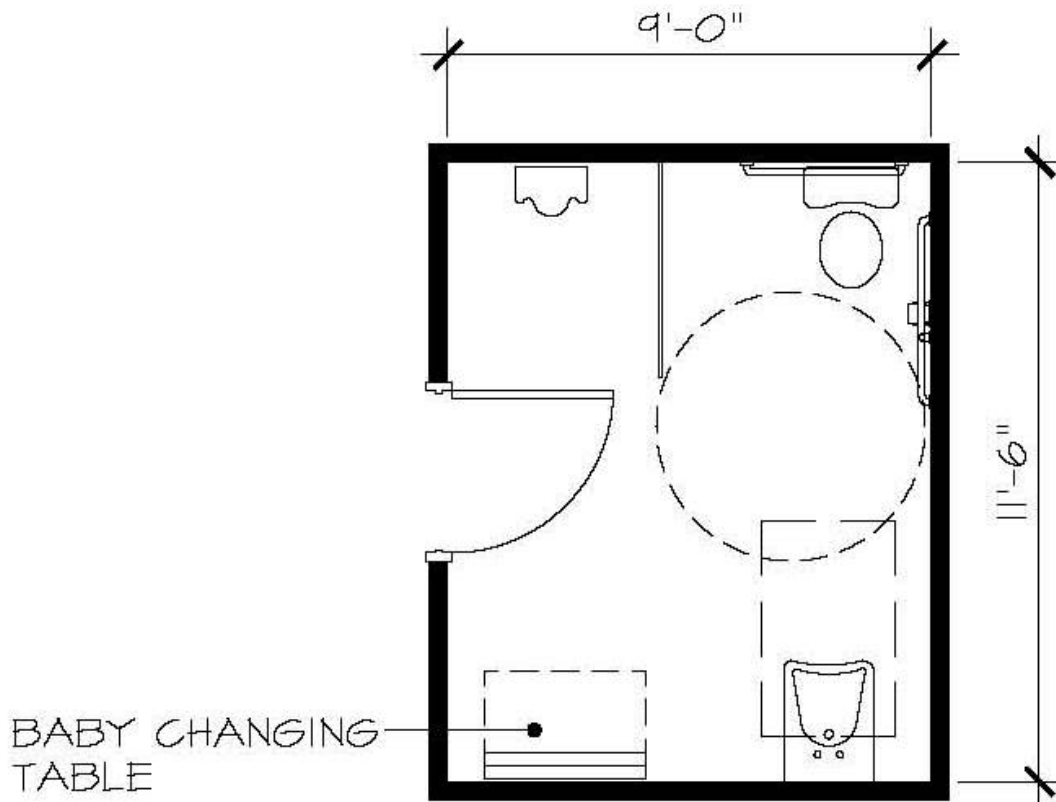
6.0 COMMON AREAS

SPACE NAME: 6.06 Gender Neutral Restroom

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	Sink		1
	H/C Toilet Stall		1
	Urinal		1
	Mirror		1
	Baby Changing Table		1

SIZE / FUNCTIONAL DIAGRAM:



6.0 COMMON AREAS

SPACE NAME: 6.07 Janitor's Closet

FUNCTION: Space for janitor supplies.

PLUMBING/PROCESS PIPING:

SERVICE: Hot and cold water; Sewer

SPECIAL:

FIXTURES: Mop sink

SQUARE FOOTAGE REQUIREMENTS:

HVAC:

EXISTING:

TEMP/HUMD: Air Conditioned Environment

REQ'D: 80

OTHER:

OCCUPANTS:

EXISTING: N/A

REQ'D: N/A

ENVIRONMENT:

FLOOR: Sheet Vinyl with Cove Base

WALL: Gypsum Board with Epoxy Paint

CEILING: Gypsum Board with Epoxy Paint

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Corridor

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: N/A

ELECTRICAL:

LIGHTING: General Fluorescent

POWER: 110 V Power Outlets (GFI)

GROUNDING:

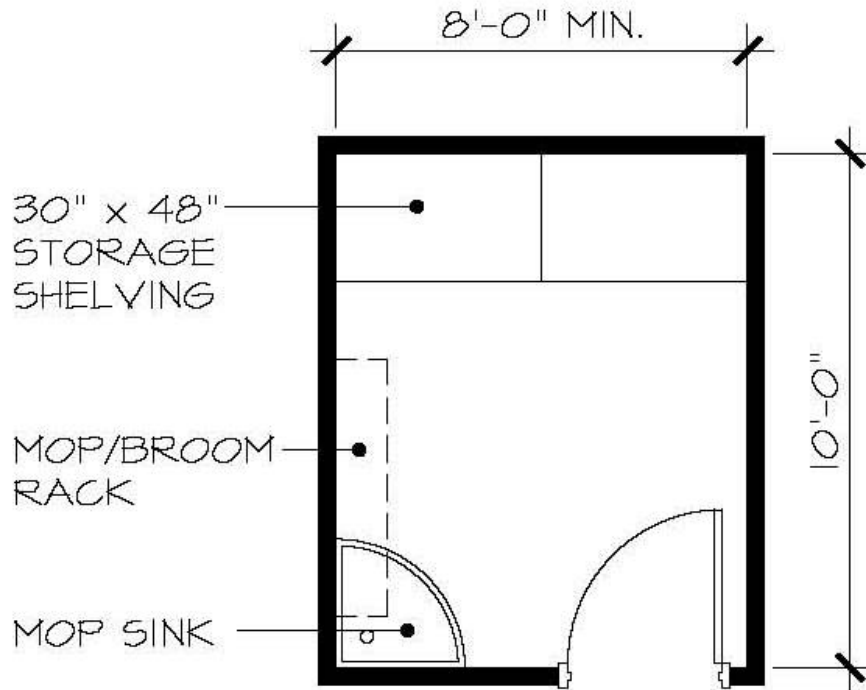
6.0 COMMON AREAS

SPACE NAME: 6.07 Janitor's Closet

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
	30" x 48" Storage Shelving		2
	Mop Sink		1
	Mop / Broom Rack		1

SIZE / FUNCTIONAL DIAGRAM:



6.0 COMMON AREAS

SPACE NAME: 6.08 Electrical Equipment Room

FUNCTION: Space for electrical equipment.

PLUMBING/PROCESS PIPING:

SERVICE: N/A

SPECIAL: N/A

FIXTURES: N/A

SQUARE FOOTAGE REQUIREMENTS:

HVAC:

EXISTING:

TEMP/HUMD:

REQ'D: 74 (or as required)

OTHER:

OCCUPANTS:

EXISTING: N/A

REQ'D: N/A

ENVIRONMENT:

FLOOR: Sealed Concrete

WALL: Gypsum Board

CEILING: Exposed to structure above

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Corridor

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: N/A

ELECTRICAL:

LIGHTING: Recessed light fixtures

POWER: 110 V Power Outlets (GFI)

GROUNDING:

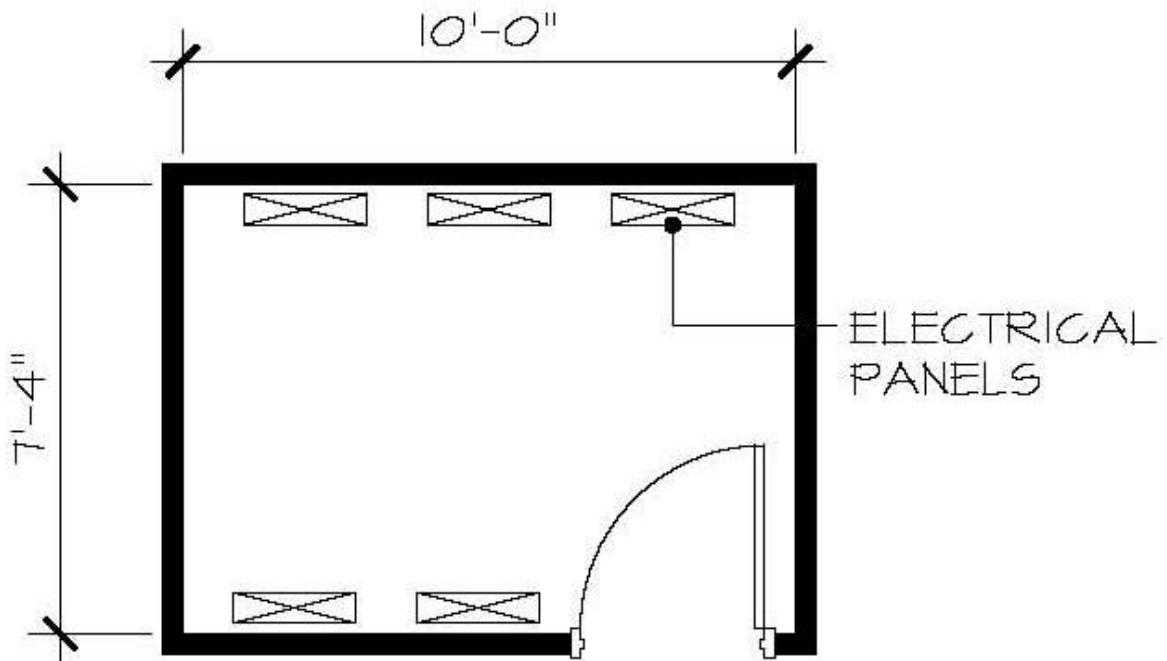
6.0 COMMON AREAS

SPACE NAME: 6.08 Electrical Equipment Room

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
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SIZE / FUNCTIONAL DIAGRAM:



6.0 COMMON AREAS

SPACE NAME: 6.09 UITS Room

FUNCTION: Intermediate Distribution Closet.
IDF Space

PLUMBING/PROCESS PIPING:

SERVICE: N/A

SPECIAL: N/A

FIXTURES: N/A

SQUARE FOOTAGE REQUIREMENTS:

EXISTING:

REQ'D: 100

HVAC:

TEMP/HUMD: Air Conditioned Environment

OTHER: 3'-0" door (to hinge outward)

OCCUPANTS:

EXISTING: N/A

REQ'D: N/A

ENVIRONMENT:

FLOOR: Sealed Concrete

WALL: ¾" A-C Grade Plywood

CEILING: Exposed to structure above

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Corridor

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: N/A

ELECTRICAL:

LIGHTING: General Fluorescent

POWER: 8 20A Electrical Outlets

GROUNDING:

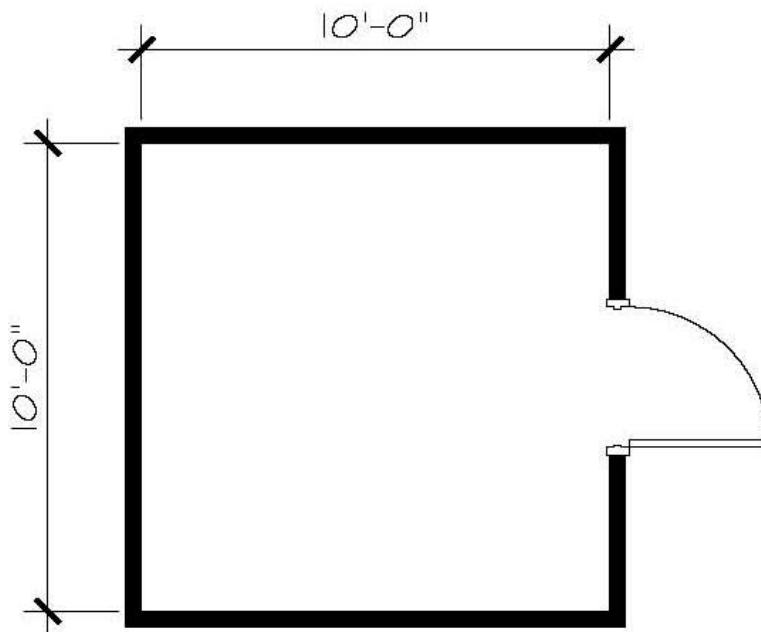
6.0 COMMON AREAS

SPACE NAME: 6.09 UITS ROOM

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
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SIZE / FUNCTIONAL DIAGRAM:



6.0 COMMON AREAS

SPACE NAME: 6.10 Server Room

FUNCTION: Space for Server Equipment.

PLUMBING/PROCESS PIPING:

SERVICE: N/A

SPECIAL: N/A

FIXTURES: N/A

SQUARE FOOTAGE REQUIREMENTS:

HVAC:

EXISTING:

TEMP/HUMD: Air Conditioned Environment

REQ'D: 100

OTHER: 3'-0" door (to hinge outward)

OCCUPANTS:

EXISTING: N/A

REQ'D: N/A

ENVIRONMENT:

FLOOR: Sealed Concrete

WALL: ¾" A-C Grade Plywood

CEILING: Exposed to structure above

CEILING HEIGHT: 8'-0" min.

INGRESS/EGRESS: Corridor

SECURITY: Lockable Door

COMMUNICATION:

TELEPHONE/DATA: N/A

ELECTRICAL:

LIGHTING: General Fluorescent

POWER: 8 20A Electrical Outlets

GROUNDING:

6.0 COMMON AREAS

SPACE NAME: 6.10 Server Room

FURNITURE/EQUIPMENT:

<u>TAG NO.</u>	<u>DESCRIPTION</u>	<u>QTY EXISTING</u>	<u>REQ'D</u>
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SIZE / FUNCTIONAL DIAGRAM:

