Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

602 TOWER ROAD, ITHACA, NY 14853

SUCF#: 191030



Stantec Project Number: 225306010

ISSUED FOR PERMIT
2026.06.25

Stantec

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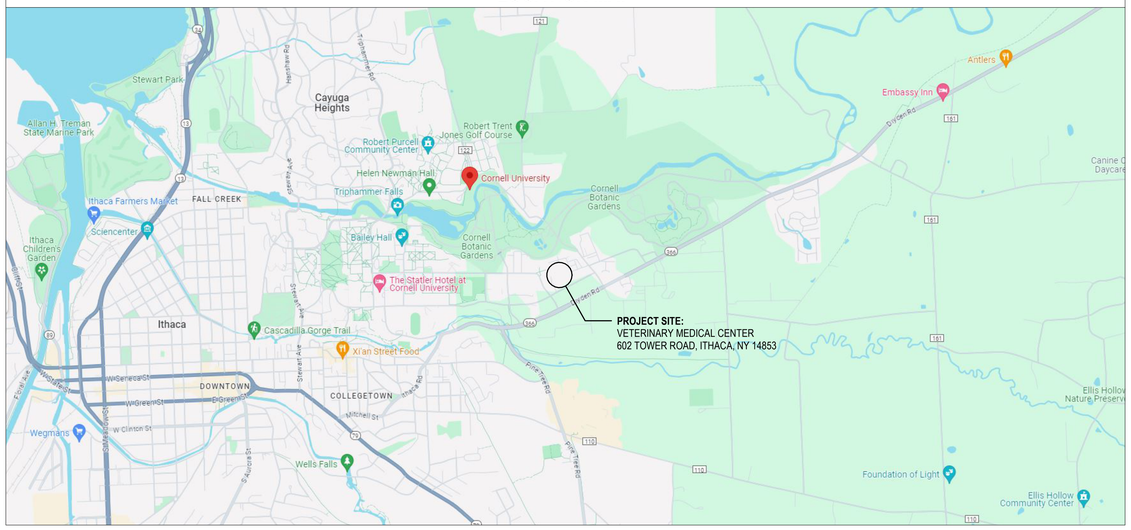
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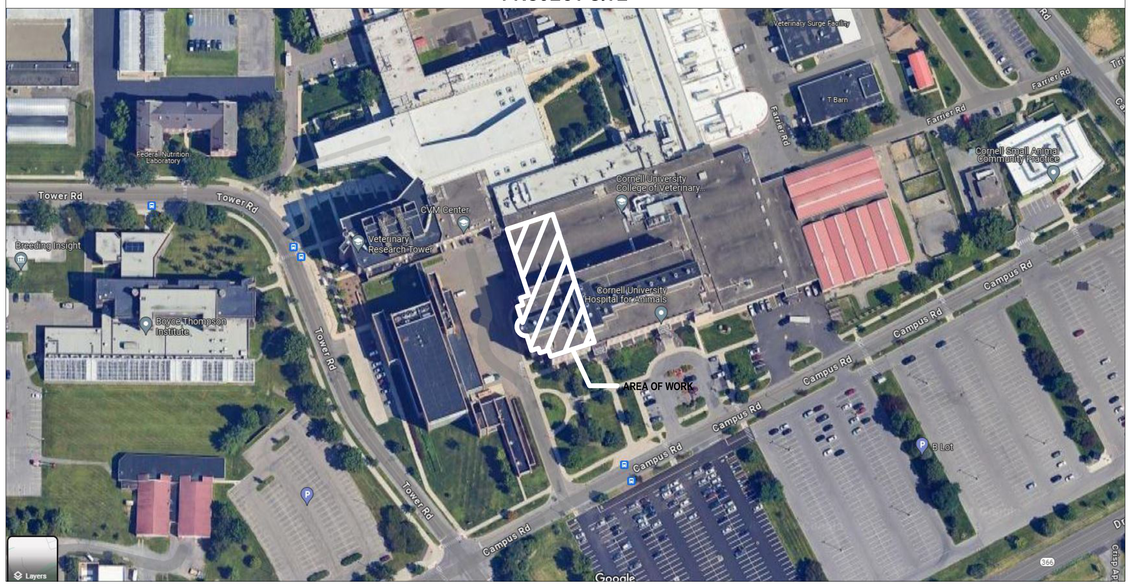
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LOCATION MAP



PROJECT SITE



DRAWING INDEX-SUBMISSION MATRIX

NO.	DRAWING NAME	ISSUED FOR PERMIT 2026.06.25
GENERAL		
G000	COVER	0
G001	DRAWING INDEX AND LOCATION MAP	0
G100	CODE SUMMARY	0
G101	OVERALL FIRST FLOOR LIFE SAFETY PLAN	0
G102	PARTIAL FIRST FLOOR LIFE SAFETY PLAN	0
G103	PARTIAL FIRST FLOOR ACCESSIBILITY PLAN	0
STRUCTURAL		
S001	GENERAL NOTES	0
S100	STRUCTURAL SLAB PLAN & DETAILS	0
S200	ELEVATIONS	0
S300	SECTIONS & DETAILS	0
ARCHITECTURE		
A000	GENERAL INFORMATION	0
A001	GENERAL INFORMATION	0
A002	INTERIOR PARTITION TYPES	0
AD101	FIRST FLOOR REMOVALS PLAN	0
AD121	FIRST FLOOR REFLECTED CEILING REMOVALS PLAN	0
A101	FIRST FLOOR PLAN	0
A101A	FIRST FLOOR PLAN - ADD ALTERNATE #1	0
A101B	FIRST FLOOR PLAN - ADD ALTERNATE #2	0
A121	FIRST FLOOR REFLECTED CEILING PLAN	0
A141	FIRST FLOOR FINISH PLAN	0
A161	FIRST FLOOR FURNITURE PLAN	0
A181	FIRST FLOOR SIGNAGE PLAN	0
A200	EXTERIOR ELEVATIONS	0
A300	BUILDING SECTIONS	0
A310	WALL SECTIONS	0
A401	ENLARGED RESTROOMS AND ELEVATIONS	0
A402	INTERIOR ELEVATIONS	0
A411	MILLWORK DETAILS	0
A500	EXTERIOR DETAILS	0
A600	DOOR SCHEDULE, DOOR AND FRAME AND DETAILS	0
A641	INTERIOR FINISH TRANSITIONS	0
A700	LAB CASEWORK, GENERAL NOTES	0
A701	LAB DETAILS	0
A702	FUME HOOD SCHEDULE AND DETAILS	0
A703	LAB SINK DETAILS	0
A710	FIRST FLOOR LAB PLAN	0
A711	ENLARGED LABORATORY PLANS	0
A712	ENLARGED LABORATORY PLANS	0
A721	ENLARGED LABORATORY ELEVATIONS	0
A722	ENLARGED LABORATORY ELEVATIONS	0
A723	ENLARGED LABORATORY ELEVATIONS	0
A731	LAB EQUIPMENT SCHEDULES	0
A732	LAB EQUIPMENT SCHEDULES	0
A733	LAB EQUIPMENT SCHEDULES	0
A734	LAB EQUIPMENT SCHEDULES	0
FIRE PROTECTION		
F000	FIRE PROTECTION LEAD SHEET	0
FD100	FIRE PROTECTION DEMOLITION PLAN	0
F100	FIRE PROTECTION FLOOR PLAN	0
F101	FIRE PROTECTION FLOOR PLAN ADD ALTERNATE #2	0
F500	FIRE PROTECTION DETAILS AND SCHEDULES	0
FIRE ALARM		
FA-001	FIRE ALARM LEGEND SHEET	0
FAD-101	FIRST FLOOR - FIRE ALARM DEMOLITION PLAN	0
FA-101	FIRST FLOOR - FIRE ALARM PLAN	0
FA-102	FIRST FLOOR - FIRE ALARM PLAN - ADD ALTERNATES	0
FA-500	FIRE ALARM RISERS	0
PLUMBING		
P000	PLUMBING LEAD SHEET	0
PD100	PLUMBING UNDERSLAB DEMOLITION PLAN	0
PD101	PLUMBING FIRST FLOOR SANITARY DEMOLITION PLAN	0
PD111	PLUMBING FIRST FLOOR SUPPLY WEST DEMOLITION	0
PD112	PLUMBING FIRST FLOOR SUPPLY EAST DEMOLITION	0
P100	PLUMBING UNDERSLAB PLAN	0
P101	PLUMBING FIRST FLOOR SANITARY PLAN	0
P111	PLUMBING FIRST FLOOR SUPPLY SYSTEMS WEST PLAN	0
P112	PLUMBING FIRST FLOOR SUPPLY SYSTEMS EAST PLAN	0
P600	PLUMBING SCHEDULES	0
P700	PLUMBING DETAILS	0
P800	PLUMBING RISER DIAGRAMS	0
MECHANICAL		
M000	MECHANICAL LEAD SHEET	0
MHD101	MECHANICAL FIRST FLOOR HVAC DEMOLITION PLAN - E	0
MHD102	MECHANICAL FIRST FLOOR HVAC DEMOLITION PLAN - W	0
MPD101	MECHANICAL FIRST FLOOR PIPING DEMOLITION PLAN - E	0
MPD102	MECHANICAL FIRST FLOOR PIPING DEMOLITION PLAN - W	0
MH101	MECHANICAL FIRST FLOOR HVAC PLAN - E	0
MH102	MECHANICAL FIRST FLOOR HVAC PLAN - W	0
MH102A	MECHANICAL FIRST FLOOR HVAC PLAN - ADD ALTERNATE #1	0
MH102B	MECHANICAL FIRST FLOOR HVAC PLAN - ADD ALTERNATE #2	0
MH103	MECHANICAL FIRST FLOOR BIOSAFETY CL & AIRFLOW PLAN	0
MH104	MECHANICAL FIRST FLOOR AIR TERMINAL PLAN	0
MH105	MECHANICAL PENTHOUSE PLAN	0
MP101	MECHANICAL FIRST FLOOR PIPING PLAN - E	0
MP102	MECHANICAL FIRST FLOOR PIPING PLAN - W	0
M500	MECHANICAL DETAILS	0
M501	MECHANICAL DETAILS	0
M600	MECHANICAL SCHEDULES	0
M601	MECHANICAL SCHEDULES	0
M602	MECHANICAL SCHEDULES	0
M700	AIRFLOW SCHEMATIC	0
M701	HEATING HOT WATER PIPING SCHEMATIC	0
M702	EQUIPMENT CHILLED WATER PIPING SCHEMATIC	0
M703	SECONDARY CHILLED WATER PIPING SCHEMATIC	0
M800	CONTROLS LEAD SHEET	0
M801	CONTROLS SCHEMATICS	0
M802	CONTROLS SCHEMATICS	0
M803	CONTROLS SCHEMATICS	0
M804	CONTROLS SCHEMATICS	0
ELECTRICAL		
E001	ELECTRICAL LEAD SHEET	
E002	ELECTRICAL LEAD SHEET	
ED101	1ST FLOOR - POWER DEMOLITION PLAN	
E101	1ST FLOOR - POWER PLAN	
E102	1ST FLOOR - POWER PLAN - ADD ALTERNATES	
E121	1ST FLOOR - LIGHTING CEILING PLAN	
E122	1ST FLOOR - LIGHTING CEILING PLAN - ADD ALTERNATES	
E300	ENLARGED SECTIONS	
E400	ENLARGED PLANS	
E500	ELECTRICAL DETAILS SHEET	
E600	ELECTRICAL SCHEDULES	
E601	ELECTRICAL SCHEDULES	
TELECOMMUNICATIONS		
TC001	TELECOMMUNICATIONS COVER SHEET	0
TC101	1ST FLOOR - TELECOMMUNICATIONS CONSTRUCTION PLAN	0
TC102	1ST FLOOR - TELECOMMUNICATIONS CONSTRUCTION PLAN ADD/ALT	0
TC400	TELECOMMUNICATIONS PART PLANS	0
TC701	TELECOMMUNICATIONS DETAILS SHEET	0
TC702	TELECOMMUNICATIONS DETAILS SHEET	0
TC703	TELECOMMUNICATIONS DETAILS SHEET	0
TC704	TELECOMMUNICATIONS DETAILS SHEET	0
SECURITY		
TY001	SECURITY COVER SHEET	0
TY101	1ST FLOOR - SECURITY CONSTRUCTION PLAN	0
TY700	SECURITY DETAILS	0
TY701	SECURITY DETAILS	0

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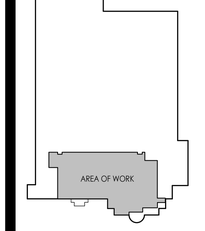
Consultant

0	ISSUED FOR PERMIT	2026.06.25
Issued/Revision		YYYY.MM.DD

Permit/Seal



Key Plan:



Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

Project No.:225306010

DRAWING INDEX AND LOCATION MAP

Scale:

Revision: **0**

Drawing No. **G001**

<Stantec location in Project Information>
7/7/2026 4:05:42 PM

ORIGINAL SHEET - ARCH E1

BUILDING CODE SUMMARY

PROJECT INFORMATION:

PROJECT NAME:	CORNELL VETERINARY RESEARCH TOWER BUILDING RENOVATION VETERINARY MEDICAL CENTER SWING SPACE RENOVATION
OWNER:	CORNELL UNIVERSITY
CONTACT:	CHRIS DAVENPORT
ARCHITECT / ENGINEER:	STANTEC CONSULTING SERVICES INC. 3 COLUMBIA CIRCLE, SUITE 6 ALBANY, NY 12203
CONTACT:	MICHAEL COLLARD

PROJECT OVERVIEW

THE PROJECT SCOPE INCLUDES INTERIOR GUT RENOVATION OF APPROXIMATELY 14,500 SQUARE FEET OF THE 76,400 SF FIRST FLOOR OF THE FIVE STORY VETERINARY MEDICAL CENTER ON CORNELL'S CAMPUS TO SERVE AS SWING SPACE FOR THE VETERINARY RESEARCH TOWER RENOVATION. THE SWING SPACE WILL INCLUDE SPECIALTY AND OPEN LAB SPACES, PRIVATE AND OPEN OFFICES, AS WELL AS A CONFERENCE AND BREAK ROOM.

GOVERNING CODES:

APPLICABLE CODES AND STANDARDS:

- 2025 BUILDING CODE OF NEW YORK STATE (BCNYS)
- 2025 EXISTING BUILDING CODE OF NEW YORK STATE (EBCNYS)
- 2025 FIRE CODE OF NEW YORK STATE (FCNY)
- 2025 PLUMBING CODE OF NEW YORK STATE (PCNYS)
- 2025 MECHANICAL CODE OF NEW YORK STATE (MCNYS)
- 2025 FUEL GAS CODE OF NEW YORK STATE (FGCNYS)
- 2025 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCCNYS)
- 2025 NYSTRETCH ENERGY CODE
- NEW YORK STATE ACCESSIBILITY CODE 2017 WITH SUPPLEMENT 1 (A117.1, 2017 W/ S1)
- ELECTRICAL CODE, NFPA 70, 2023
- SPRINKLER CODE, NFPA 13, 2022

REHABILITATION OF EXISTING STRUCTURES:

PER THE 2025 EXISTING BUILDING CODE OF NEW YORK STATE

☐ REPAIRS (CHAPTER 6)
☐ ALTERATIONS - LEVEL 1 (CHAPTER 7)
☒ ALTERATIONS - LEVEL 2 (CHAPTER 8)
☐ ALTERATIONS - LEVEL 3 (CHAPTER 9)
☐ CHANGE OF OCCUPANCY (CHAPTER 10)

FORMER OCCUPANCY CLASSIFICATION(S): B - BUSINESS
NEW OCCUPANCY CLASSIFICATION(S): B - BUSINESS

FULL CHANGE OF OCCUPANCY:	☐ YES	☒ NO
PARTIAL CHANGE OF OCCUPANCY:	☐ YES	☒ NO
CHANGE OF USE WITHOUT CHANGE OF OCCUPANCY:	☒ YES	☐ NO
	COMPLY WITH EBC SECTIONS 1002 THROUGH 1010.	

☐ ADDITIONS (CHAPTER 11)
☐ HISTORIC BUILDING (CHAPTER 12)
☐ RELOCATED BUILDING (CHAPTER 14) — ACCESSIBLE MEANS OF EGRESS NOT REQUIRED PER EBCNYS 306.7.2. NEW TOILET ROOMS TO COMPLY WITH NYS ACCESSIBILITY CODE 2017.
☒ ACCESSIBILITY UPGRADES; APPLICABLE SECTION/PROVISIONS

2025 EXISTING BUILDING CODE OF NEW YORK STATE - CHAPTERS 7 AND 8
COMPLIANCE - IN ADDITION TO THE PROVISIONS OF EBC NYS CHAPTER 8, WORK SHALL COMPLY WITH ALL REQUIREMENTS OF EBC NYS CHAPTER 7. THE REQUIREMENTS OF SECTIONS 802, 803, AND 804 SHALL APPLY TO ALL WORK AREAS.

1. WINDOWS ARE NOT REQUIRED TO COMPLY WITH LIGHT AND VENTILATION REQUIREMENTS OF THE BUILDING CODE OF NEW YORK STATE. [EBCNYS 801.4, EXCEPTION 1]
2. INTERIOR FINISH OF WALLS AND CEILINGS IN EXITS AND CORRIDORS IN ANY WORK AREA SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE OF NEW YORK STATE. [EBCNYS 802.4]
3. MEANS OF EGRESS [EBCNYS SECTION 804]
   - A. EVERY STORY UTILIZED FOR HUMAN OCCUPANCY ON WHICH THERE IS A WORK AREA THAT INCLUDES EXITS SHALL BE PROVIDED WITH THE MINIMUM NUMBER OF EXITS BASED ON THE OCCUPANCY AND THE OCCUPANT LOAD IN ACCORDANCE WITH THE BCNYS [EBCNYS 804.5.1]
   - B. EGRESS DOORWAYS - TWO REQUIRED FOR ROOMS WITH OCCUPANT LOAD GREATER THAN 50 OR IN WHICH TRAVEL DISTANCE TO AN EXIT EXCEEDS 75 FEET [EBCNYS 804.6.1.1]
   - C. ALL EGRESS DOORS SERVING AN OCCUPANT LOAD GREATER THAN 50 SHALL SWING IN THE DIRECTION OF EXIT TRAVEL. [EBCNYS 804.6.2]
   - D. IN ANY WORK AREA, ALL DOORS OPENING ONTO AN EXIT PASSAGEWAY AT GRADE OR AN EXIT STAIRWAY SHALL BE SELF-CLOSING OR AUTOMATIC-CLOSING BY LISTED CLOSING DEVICE. [EBCNYS 804.6.3]
4. MECHANICAL [EBCNYS SECTION 807]
   - A. RECONFIGURED SPACES INTENDED FOR OCCUPANCY AND SPACES CONVERTED TO HABITABLE OR OCCUPIABLE SPACE IN ANY WORK AREA SHALL BE PROVIDED WITH NATURAL OR MECHANICAL VENTILATION IN ACCORDANCE WITH THE MECHANICAL CODE OF NEW YORK STATE. [EBCNYS 807.1]
   - B. IN MECHANICALLY VENTILATED SPACES, EXISTING MECHANICAL VENTILATION SYSTEMS THAT ARE ALTERED, RECONFIGURED OR EXTENDED SHALL PROVIDE NOT LESS THAN 5 CUBIC FEET PER MINUTE (CFM) PER PERSON OF OUTDOOR AIR AND NOT LESS THAN 15 CFM OF VENTILATION AIR PER PERSON; OR NOT LESS THAN THE AMOUNT OF VENTILATION AIR DETERMINED BY THE INDOOR AIR QUALITY PROCEDURE OF ASHRAE 62.1. [EBCNYS 807.2]
   - C. NEWLY INTRODUCED DEVICES, EQUIPMENT, OR OPERATIONS THAT PRODUCE AIRBORNE PARTICULATE MATTER, ODORS, FUMES, VAPOR, COMBUSTION PRODUCTS, GASEOUS CONTAMINANTS, PATHOGENIC AND ALLERGENIC ORGANISMS, AND MICROBIAL CONTAMINANTS IN SUCH QUANTITIES AS TO ADVERSELY OR IMPAIR HEALTH OR CAUSE DISCOMFORT TO OCCUPANTS SHALL BE PROVIDED WITH LOCAL EXHAUST. [EBCNYS 807.3]
5. LEVEL 2 ALTERATIONS TO EXISTING BUILDINGS OR STRUCTURES ARE PERMITTED WITHOUT REQUIRING THE ENTIRE BUILDING OR STRUCTURE TO COMPLY WITH THE ENERGY REQUIREMENTS OF THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE AS THEY RELATE TO NEW CONSTRUCTION ONLY. [EBCNYS 809.1]

OCCUPANCY CLASSIFICATION AND MIXED OCCUPANCIES: (CHAPTERS 3 & 5)

☒ SINGLE ☐ ACCESSORY - GROUP : % OF FLOOR AREA
☐ MIXED OCCUPANCY ☐ SEPARATED ☐ NON-SEPARATED ☐ COMBINATION

IF SEPARATED, FIRE RESISTANCE RATING OF FIRE BARRIER: (TABLE 508.4) HR
OCCUPANCY CLASSIFICATION(S): B - BUSINESS
USES: OFFICES, LABORATORIES

AUTOMATIC SPRINKLER SYSTEM PROVIDED THROUGHOUT BUILDING:
☒ YES ☐ NO
PARTIAL/LIMITED-AREA SPRINKLER SYSTEM:
☐ YES ☐ NO
NFPA STANDARD: ☒ 13 ☐ 13R ALT. FIRE PROTECTION SYSTEM:

SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY (CHAPTER 4)

☐ COVERED AND OPEN MALL BUILDINGS (402)
☐ HIGH-RISE BUILDINGS (403)
☐ ATRIUMS (404)
☐ UNDERGROUND BUILDINGS (405)
☐ MOTOR VEHICLE RELATED OCCUPANCIES (406)
☐ GROUP I-2 (HEALTH CARE) (407)
☐ GROUP I-3 (CORRECTIONAL OR DETENTION) (408)
☐ MOTION PICTURE PROJECTION ROOMS (409)
☐ STAGES, PLATFORMS AND TECHNICAL PRODUCTION AREAS (410)
☐ SPECIAL AMUSEMENT BUILDINGS (411)
☐ AIRCRAFT RELATED OCCUPANCIES (412)
☐ COMBUSTIBLE STORAGE (413)
☐ HIGH-PILED COMBUSTIBLE STORAGE AND STORAGE RACKING (FIRE CODE & NFPA 13)
☒ HAZARDOUS MATERIALS (414)
☒ CONTROL AREAS (5003.8 - FIRE CODE)
☐ GROUP H1 THROUGH H5 (415)
☐ SPRAY APPLICATION OF FLAMMABLE FINISHES (416)
☐ DRYING ROOMS (417)
☐ ORGANIC COATINGS (418)
☐ ARTIFICIAL DECORATIVE VEGETATION (419)
☐ GROUP I-1, R-1, R-2, R-3 (420)
☐ HYDROGEN FUEL GAS ROOMS (421)
☐ AMBULATORY CARE FACILITY (422)
☐ STORM SHELTERS (423)
☐ PLAY STRUCTURES (424)
☐ HYPERBARIC FACILITIES (425)
☐ COMBUSTIBLE DUSTS, GRAIN PROCESSING AND STORAGE (426)
☐ MEDICAL GAS SYSTEMS (427)
☒ HIGHER EDUCATION LABORATORIES (428)
☐ HEALTH CARE FACILITIES IN SPECIAL FLOOD HAZARD AREAS (429)
☐ LIVE FIRE TRAINING FACILITIES (430)

NOTE: SEE SPECIAL DETAILED REQUIREMENTS NOTES FOR CLARITY AND SPECIAL CODE CONSIDERATIONS FOR ADDITIONAL REQUIREMENTS, AS APPLICABLE.

SPECIAL DETAILED REQUIREMENTS NOTES:

1. SUITE WILL BE TREATED AS A SINGLE CONTROL AREA, EXISTING PERIMETER WALLS WILL BE UPGRADED TO MEET FIRE RESISTANCE REQUIREMENTS.

SECTION 414, HAZARDOUS MATERIALS

CODE DESCRIPTION	REQUIRED	PROVIDED	SECTION
CONTROL AREA CONSTRUCTION	1-HR VERTICAL AND HOR. BARRIERS	1-HR VERTICAL AND HOR. BARRIERS	(BC 414.2.1)
PERCENTAGE OF MAXIMUM ALLOWABLE QUANTITY	SEE TABLE 414.2.2		(BC 414.2.2)
MAXIMUM NUMBER OF CONTROL AREAS	4	3	(BC 414.2.3)
FLOOR ASSEMBLY FIRE RESISTANCE	2-HR	2-HR	(BC 414.2.4)

DESIGN AND NUMBER OF CONTROL AREAS PER FLOOR (BC TABLE 414.2.2)

FLOOR LEVEL		PERCENTAGE OF THE MAXIMUM ALLOWABLE QUANTITY PER CONTROL AREA (a)	NUMBER OF CONTROL AREAS PER STORY	FIRE-RESISTANCE RATING FOR FIRE BARRIERS IN HOURS (b)
ABOVE GRADE PLANE 5	FIFTH FLOOR	12.5	2	2
ABOVE GRADE PLANE 4	FOURTH FLOOR	12.5	2	2
ABOVE GRADE PLANE 3	THIRD FLOOR	50	2	1
ABOVE GRADE PLANE 2	SECOND FLOOR	75	3	1
ABOVE GRADE PLANE 1 (AREA OF WORK)	FIRST FLOOR	100	4	1

a. PERCENTAGES SHALL BE OF MAXIMUM ALLOWABLE QUANTITY PER CONTROL AREA SHOWN IN TABLES 307.1(1) AND 307.1(2), WITH ALL INCREASES ALLOWED IN THE NOTES TO THOSE TABLES.

b. SEPARATION SHALL INCLUDE FIRE BARRIERS AND HORIZONTAL ASSEMBLIES AS NECESSARY TO PROVIDE SEPARATION FROM OTHER PORTIONS OF THE BUILDING.

CONSTRUCTION TYPE: IB (EXIST) SECTION 601 (CHAPTER 6)
FIRE RESISTANCE OF BUILDING ELEMENTS:

BUILDING ELEMENTS	REQUIRED	PROVIDED	SECTION
STRUCTURAL FRAME	2	EXISTING (a.)	(TABLE 601)
BEARING WALLS (EXTERIOR)	2	N/A	(TABLE 601)
BEARING WALLS (INTERIOR)	2	N/A	(TABLE 601)
NON-BEARING WALLS (EXTERIOR)	*	EXISTING (a.)	(TABLE 705.5)
NON-BEARING WALLS (INTERIOR)	0	0	(TABLE 601)
FLOOR CONSTRUCTION	2	EXISTING (a.)	(TABLE 601)
ROOF CONSTRUCTION	1	EXISTING (a.)	(TABLE 601)

a. ELEMENTS WITHIN WORK AREA DURING PERFORMANCE OF THE WORK NOTED TO NOT COMPLY WITH REQUIREMENTS STIPULATED ABOVE SHALL BE UPGRADED TO MEET CODE REQUIREMENTS.

FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS - BASED ON FIRE SEPARATION DISTANCE: (TABLE 705.5)

FIRE SEPARATION DISTANCE	TYPE OF CONSTRUCTION	REQUIRED	PROVIDED
X < 5	ALL	2 HR	EXIST
5 < X < 10	IB	1 HR	EXIST
10 < X < 30	IB	1 HR	EXIST
X > 30	ALL	0 HR	EXIST

HEIGHT & AREA - ACTUAL: (CHAPTER 5)

BUILDING HEIGHT	HEIGHT IN FEET	HEIGHT IN STORIES
VMC	87 ft	5

BUILDING AREA SUMMARY	EXISTING (NOT MODIFIED)	AREA OF WORK	TOTAL
LEVEL 1	61,900 sf	14,500 sf	76,400 sf
LEVEL 2	128,400 sf	-- sf	128,400 sf
LEVEL 3	32,800 sf	-- sf	32,800 sf
LEVEL 4	32,800 sf	-- sf	32,800 sf
LEVEL 5	32,800 sf	-- sf	32,800 sf
PENTHOUSE	9,700 sf	-- sf	9,700 sf

HEIGHT & AREA - ALLOWABLE: (CHAPTER 5)
PER TABLES 504.3, 504.4 AND 506.3

OCCUPANCY CLASSIFICATION	TABULAR AREA A_t PER FLOOR	TABULAR HEIGHT	
		FEET	STORIES
B	UNLIMITED sf	180 ft	12
	sf	ft	

FIRE AND SMOKE PROTECTION FEATURES: (CHAPTER 7)

SHAFTS
SHAFT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 2 HOURS WHERE CONNECTING FOUR STORIES OR MORE, AND NOT LESS THAN 1 HOUR WHERE CONNECTION LESS THAN FOUR STORIES.

OPENING FIRE PROTECTION ASSEMBLIES, RATINGS AND MARKINGS (IBC TABLE 716.1(2))

TYPE OF ASSEMBLY	REQUIRED WALL ASSEMBLY RATING (HOURS)	MINIMUM FIRE DOOR ASSEMBLY RATING (HOURS)	DOOR VISION PANEL SIZE	FIRE-RATED GLAZING MARKING DOOR VISION PANEL	MINIMUM SIDELITE / TRANSOM ASSEMBLY RATING (HOURS)	FIRE-RATED GLAZING MARKING SIDELITE / TRANSOM
FIRE BARRIERS (SHAFTS)	2	1-1/2	100 SQ. IN.	D-H-90	1 FR*	W-120
FIRE BARRIERS (SHAFTS)	1	1	100 SQ. IN.	D-H-60	1 FR*	W-60
OTHER FIRE BARRIERS	1	3/4	MAX SIZE TESTED	D-H-45	3/4*** FP**	D-H-45***

*FR = FIRE RESISTANCE
**FP = FIRE PROTECTION
*** FIRE-PROTECTION-RATED GLAZING IS NOT PERMITTED FOR FIRE BARRIERS REQUIRED BY SECTION 1207 OF THE FIRE CODE OF NEW YORK STATE TO ENCLOSE ENERGY STORAGE SYSTEMS. FIRE-RESISTANCE-RATED GLAZING ASSEMBLIES TESTED TO ASTM E119 OR UL 263, AS SPECIFIED IN SECTION 716.1.2.3, SHALL BE PERMITTED.

INTERIOR FINISH: (CHAPTER 8)

WALL AND CEILING (TABLE 803.13)

OCCUPANCY: B			
FINISH CLASS	LOCATION		
☐ A	☐ EXITS	☐ CORRIDORS/ EXIT ACCESS	☐ ROOMS/ SPACES
☒ B	☒ EXITS	☐ CORRIDORS/ EXIT ACCESS	☐ ROOMS/ SPACES
☒ C	☐ EXITS	☒ CORRIDORS/ EXIT ACCESS	☒ ROOMS/ SPACES

FLOORING (804)

FINISH CLASS	OCCUPANCIES
☐ I	☐ ALL ☐ GROUPS:
☐ II	☐ ALL ☐ GROUPS:
☒ DOC FF-1	☐ ALL ☒ GROUPS: B

FIRE PROTECTION SYSTEMS: (CHAPTER 9)
SIZE AND LOCATION OF FIRE AREAS INDICATED ON CODE COMPLIANCE DRAWING(S).

FIRE PROTECTION SYSTEM	REQUIRED	PROVIDED	SECTION
AUTOMATIC SPRINKLER	Y	Y	(903)
ALT. AUTOMATIC FIRE-EXTINGUISHING SYST	N	N	(904)
STANDPIPE	Y	EXISTING	(905)
PORTABLE FIRE EXTINGUISHER	Y	Y	(906)
FIRE ALARM & DETECTION	Y	Y	(907)
EMERGENCY ALARM	N	N	(908)
SMOKE CONTROL SYSTEM	N	N	(909)
SMOKE & HEAT REMOVAL	N	N	(910)
FIRE COMMAND CENTER	N	N	(911)
FIRE DEPARTMENT CONNECTIONS	Y	EXIST	(912)
FIRE PUMP	Y	EXIST	(913)
EMERGENCY RESPONDER SAFETY FEATURES	Y	EXIST	(914)
CARBON MONOXIDE (CO) DETECTION	Y	Y	(915)
GAS DETECTION SYSTEMS	N	N	(916)
MASS NOTIFICATION SYSTEMS	NA	NA	(917)
EMERGENCY RESPONDER COMMUNICATION COVERAGE	TEST	TBD	(918)

FIRE PROTECTION SYSTEMS NOTES:

PORTABLE FIRE EXTINGUISHERS [SECTION 906]
PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN ALL OF THE FOLLOWING LOCATIONS:
1. GROUP B. PORTABLE FIRE EXTINGUISHERS SHALL BE SELECTED AND INSTALLED IN ACCORDANCE WITH THIS SECTION AND NFPA 10.

TABLE 906.3(1) – FIRE EXTINGUISHERS FOR CLASS A HAZARDS

	ORDINARY (MODERATE) HAZARD OCCUPANCY
MIN. RATED SINGLE EXTINGUISHER	2-A
MAX. FLOOR AREA PER UNIT OF A	1,500 SQ. FT.
MAX. FLOOR AREA FOR EXTINGUISHER	11,250 SQ. FT.
MAX. DIST. OF TRAVEL TO EXTINGUISHER	75 FT.

CARBON MONOXIDE DETECTION [SECTION 915]
CO DETECTION TO BE PROVIDED IN COMPLIANCE WITH PMC SECTION 705 AND PER SECTION 915 OF BCNYS UPON INTRODUCTION OF NEW CO SOURCES PER EBCNYS SECTION 801.3. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

GAS DETECTION SYSTEMS [SECTION 915]
IN LIEU OF GAS DETECTION, MECHANICAL VENTILATION IS PROVIDED IN COMPLIANCE WITH SECTIONS 5307.2 AND 5004.3 OF THE 2025 FIRE CODE OF NEW YORK STATE. INSTALLATION SHALL COMPLY WITH THE 2025 MECHANICAL CODE OF NEW YORK STATE. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

CURRENT BUILDING(S) OCCUPANCY SUMMARY (BC CHAPTER 10)

	SQ.FT	OCCUP. LOAD FACTOR	OCCUPANTS
LEVEL 1			
BUSINESS	52,715	150 GSF	352
ACCESSORY MECHANICAL AND EQUIPMENT	23,700	300 GSF	80
TOTAL - LEVEL 1	76,415		432

MEANS OF EGRESS: (CHAPTER 10)
DESIGN OCCUPANT LOAD SUMMARY

FLOOR	TOTAL	
FIRST FLOOR	432	SEE SUMMARY TABLE
TOTAL	432	

MEANS OF EGRESS ELEMENT	REQUIRED	PROVIDED	SECTION
NUMBER OF EXITS	2	3	(1006.3.3)
EXIT ACCESS TRAVEL DISTANCE	300 FT	SEE PLAN	(TABLE 1017.2)
DEAD-END LIMIT	50 FT	SEE PLAN	(1020.5)
COMMON PATH OF TRAVEL LIMIT	100 FT	SEE PLAN	(1006.2.1)
CORRIDOR FIRE-RESIST. RATING	0 HR	2 HR (EXISTING)	(TABLE 1020.2)

EGRESS WIDTH

	REQUIRED	PROVIDED	SECTION
DOORS/OTHER			
FIRST FLOOR	0.15" X 432 OCCUPANTS = 64.8" 32" MIN.	97	(1005.3.2) (1007.1.1)
CORRIDORS			
MECH / ELEC ACCESS	24" MIN	24" MIN	(TABLE 1020.3)
OCCUPANT LOAD <50	36" MIN	36" MIN	
OTHER	44" MIN	44" MIN	

PLUMBING FIXTURE REQUIREMENTS: (CHAPTER 29)

OCCUPANCY CLASSIFICATION	OCCUPANT LOAD	WATER CLOSETS MEN REQUIRED	WATER CLOSETS MEN PROVIDED	WATER CLOSETS WOMEN REQUIRED	WATER CLOSETS WOMEN PROVIDED	URINALS REQUIRED	URINALS PROVIDED	D.F. REQUIRED	D.F. PROVIDED	LAVATORIES MEN REQUIRED	LAVATORIES MEN PROVIDED	LAVATORIES WOMEN REQUIRED	LAVATORIES WOMEN PROVIDED
BUSINESS	432	6	7*	6	7	0	2*	5	3	4	6	4	6

SEPARATE FACILITIES FOR EACH GENDER REQUIRED? ☒ YES ☐ NO (2902.2) EXC. #
SEPARATE EMPLOYEE FACILITIES REQUIRED? ☐ YES ☒ NO (2902.3) EXC. #
LOCATION OF EMPLOYEE FACILITIES COMPLIES? ☒ YES ☐ NO (2902.3) EXC. #
LOCATION OF PUBLIC FACILITIES COMPLIES? ☒ YES ☐ NO (2902.3.1) EXC. #
OTHER PLUMBING FIXTURE REQUIREMENTS? MIN. 1 SERVICE SINK PROVIDED PER FLOOR

NOTES
*URINALS ARE PROVIDED IN MEN'S ROOM TO COMPLY WITH TOTAL FIXTURES REQUIRED.

1. REQUIRED PLUMBING FIXTURE CALCULATION HAS CONSIDERED THE FIRST FLOOR IN ENTIRETY. EXISTING TOILET ROOMS OUTSIDE OF WORK AREA ARE NOT BEING MODIFIED AS PART OF THIS PROJECT.
2. RESTROOMS WITHIN WORK AREA BEING RENOVATED.
3. FIXTURE COUNT ON FIRST FLOOR UNCHANGED.

CONSTRUCTION SAFETY COMPLIANCE WITH:
☒ CHAPTER 33 SAFE GUARDS DURING CONSTRUCTION (BCNYS)
☒ CHAPTER 33 FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION (FCNYS)
☒ CHAPTER 15 CONSTRUCTION SAFEGUARDS (EBCNYS)

1. THE SAFETY OF THE CONSTRUCTION AREA AND ADJACENT PUBLIC AND PRIVATE PROPERTIES SAFETY SHALL BE PROTECTED DURING CONSTRUCTION AND DEMOLITION IN ACCORDANCE WITH THE EBC, BC, AND FC.
2. REQUIRED SAFETY ELEMENTS SUCH AS EXITS, EXISTING STRUCTURAL MEMBERS, FIRE PROTECTION DEVICES, AND SANITARY SAFEGUARDS SHALL BE MAINTAINED AT ALL TIMES, EXCEPT WHERE THE BUILDING IS NOT OCCUPIED OR WHERE SUCH REQUIRED ELEMENTS ARE BEING ALTERED OR REPAIRED AND ADEQUATE SUBSTITUTE PROVISIONS ARE MADE.
3. AN APPROVED PERMANENT OR TEMPORARY MEANS OF EGRESS SHALL BE MAINTAINED AT ALL TIMES. AN EGRESS COMPONENT SHALL NOT BE DESTROYED UNLESS UNLESS A SUBSTITUTE MEANS OF EGRESS HAS BEEN PROVIDED.
4. FIRE EXTINGUISHERS SHALL BE PROVIDED DURING CONSTRUCTION AND REMOVALS AT EACH STAIRWAY, ON EACH FLOOR LEVEL, WHERE COMBUSTIBLE MATERIALS HAVE ACCUMULATED. PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED WHERE SPECIAL HAZARDS EXIST, SUCH AS STORAGE AND USE OF FLAMMABLE AND COMBUSTIBLE LIQUIDS.

2025 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCCNYS):

COMPLIANCE PATH: ☒ PRESCRIPTIVE ☐ COMCHECK ☐ ASHRAE 90.1 ☐ APPROVED SOFTWARE

CLIMATE ZONE: (C301) ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☒ 5 ☐ 6
☐ LOW ENERGY BUILDINGS: (C402.1.1) COMPLIANCE WITH BUILDING THERM. ENVELOPE NOT REQ'D.

MINIMUM VALUES:
ROOF (EXISTING NOT MODIFIED)

WALLS ABOVE GRADE
MASS: U-0.080 REQUIRED
*NOTE: ALTERNATE 1 REQUIRES INFILL OF EXISTING WINDOW OPENINGS, NEW WALL ASSEMBLY WILL MATCH ADJACENT, EXISTING U VALUE.

WALLS, BELOW GRADE (EXISTING NOT MODIFIED)

SLABS ON GRADE FLOORS (EXISTING NOT MODIFIED)

SWINGING DOOR: U-0.37 REQUIRED

VERTICAL FENESTRATION
FIXED: U-0.34
OPERABLE: U-0.43
ENTRANCE DOORS: U-0.63

SHGC:
PF < 0.2: 0.33
0.2 ≤ PF < 0.5: 0.40
PF ≥ 0.5: 0.53

EXISTING BUILDINGS (CHAPTER C5)
☐ ADDITIONS (C502)
☒ ALTERATIONS (C503)
☐ REPAIRS (C504)
☐ CHANGE OF OCCUPANCY OR USE (C505)

COMPLIANCE STATEMENT: SEE COMPLIANCE STATEMENTS IN DISCIPLINE SPECIFIC DRAWING PACKAGES

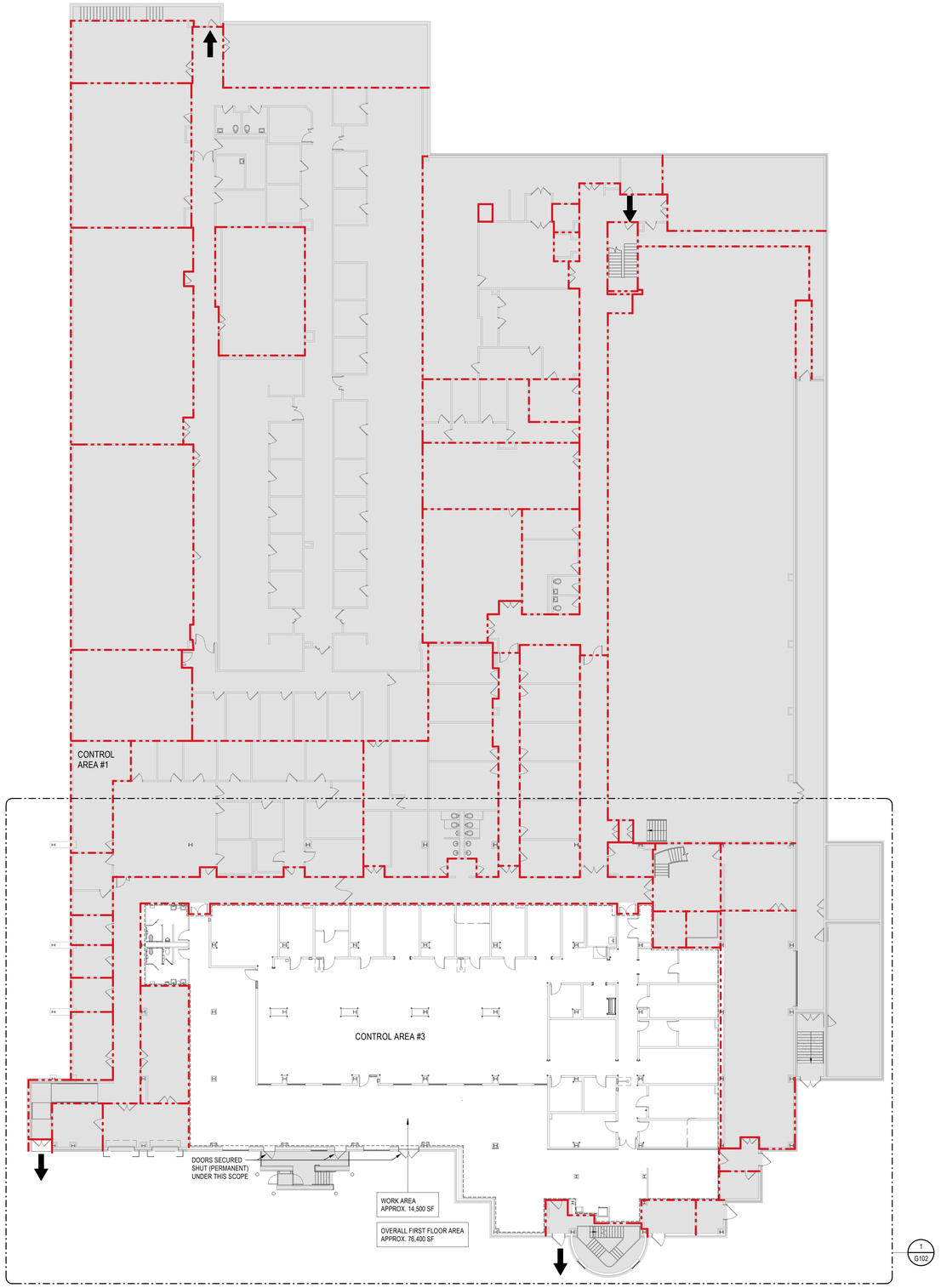
BCNYS TABLE 307.1(1) MAXIMUM ALLOWABLE QUANTITY PER CONTROL AREA OF HAZARDOUS MATERIALS POSING A PHYSICAL HAZARD [a, c, i, l, m]

MATERIAL	CLASS	GROUP WHEN THE MAXIMUM ALLOWABLE QUANTITY IS EXCEEDED	STORAGE [b] Solid pounds (cubic feet)	STORAGE [b] Liquid gallons (pounds)	STORAGE [b] Gas (cubic feet at NTP)	USE-CLOSED SYSTEMS [b] Solid pounds (cubic feet)	USE-CLOSED SYSTEMS [b] Liquid gallons (pounds)	USE-CLOSED SYSTEMS [b] Gas (cubic feet at NTP)	USE-OPEN SYSTEMS [b] Solid pounds (cubic feet)	USE-OPEN SYSTEMS [b] Liquid gallons (pounds)
Combustible Dust	NA	H-2	See Note o	NA	NA	See Note o	NA	NA	See Note o	NA
Combustible fiber [o]	Loose	H-3	(100)	NA	NA	(100)	NA	NA	(20)	NA
	Baled [o]		(1000)			(1000)			(200)	
Combustible liquid [n]	II	H-2 or H-3	120 [d,e]	NA	NA	120 [d]	NA	NA	30 [d]	
	IIIA	H-2 or H-3	330 [d,e]			330 [d]			80 [d]	
	IIIB	NA	13,200 [e,f]			13,200 [f]			3,300 [f]	
Cryogenic flammable	NA	H-2	NA	45 [d]	NA	NA	45 [d]	NA	NA	10 [d]
Cryogenic inert	NA	NA	NA	NA	NL	NA	NA	NL	NA	NA
Cryogenic oxidizing	NA	H-3	NA	45 [d]	NA	NA	45 [d]	NA	NA	10 [d]
Explosives	Division 1.1	H-1	1 [e,g]	(1) [e,g]	NA	0.25 [g]	(0.25) [g]	NA	0.25 [g]	(0.25) [g]
	Division 1.2	H-1	1 [e,g]	(1) [e,g]		0.25 [g]	(0.25) [g]		0.25 [g]	(0.25) [g]
	Division 1.3	H-1 or H-2	5 [e,g]	(5) [e,g]		1 [g]	(1) [g]		1 [g]	(1) [g]
	Division 1.4	H-3	50 [e,g]	(50) [e,g]		50 [g]	(50) [g]		NA	NA
	Division 1.4G	H-3	125 [e,k]	NA		NA	NA		NA	NA
	Division 1.5	H-1	1 [e,g]	(1) [e,g]		0.25 [g]	(0.25) [g]		0.25 [g]	(0.25) [g]
	Division 1.6	H-1	1 [e,g]	NA		NA	NA		NA	NA
Flammable gas	Gaseous	H-2	NA	1,000 [d,e]	NA	NA	1,000 [d,e]	NA	NA	NA
	1A and 1B (High BV) [p]			1,000 [d,e]			1,000 [d,e]			
	1B (Low BV) [p]			162,500 [d,e]			162,500 [d,e]			
	Liquefied									
	1A and 1B (High BV) [p]			(150) [d,e]			(150) [d,e]			
	1B (Low BV) [p]			(10,000) [d,e]			(10,000) [d,e]			
Flammable liquid [c]	1A	H-2 or H-3	NA	30 [d,e]	NA	NA	30 [d,e]	NA	NA	10 [d]
	1B and 1C			120 [d,e]			120 [d,e]			30 [d]
Flammable liquid combination (IA, IB, IC)	NA	H-2 or H-3	NA	120 [d,e,h]	NA	NA	120 [d,h]	NA	NA	30 [d, h]
Flammable Solid	N/A	H-3	125 [d,e]	NA	NA	NA	125 [d]	NA	NA	25 [d]
Inert Gas	Gaseous	NA	NA	NA	NL	NA	NA	NL	NA	NA
	Liquefied	NA	NA	NA	NL	NA	NA	NL	NA	NA
Oxidizer	4	H-1	1 [g]	(1) [e,g]	NA	0.25 [g]	(0.25) [g]	NA	0.25 [g]	(0.25) [g]
	3 [i]	H-2 or H-3	10 [d,e]	(10) [d,e]		2 [d]	(2) [d]		2 [d]	(2) [d]
	2	H-3	250 [d,e]	(250) [d,e]		250 [d]	(250) [d]		50 [d]	(50) [d]
	1	NA	4,000 [e,f]	(4,000) [e,f]		4,000 [f]	(4,000) [f]		1,000 [f]	(1,000) [f]
Oxidizing gas	Gaseous	H-3	NA	1,500 [d,e]	NA	NA	1,500 [d,e]	NA	NA	NA
	Liquefied			(150) [d,e]			(150) [d,e]			
Pyrophoric material	N/A	H-2	4 [e,g]	(4) [e,g]	50 [e,g]	1 [g]	(1) [g]	10 [e,g]	0	0
Unstable (reactive)	4	H-1	1 [e,g]	(1) [e,g]	NA	0.25 [g]	(0.25) [g]	NA	2 [e,g]	(0.25) [g]
	3	H-1 or H-2	5 [d,e]	(5) [d,e]		50 [d,e]	1 [d]		1 [d]	(1) [d]
	2	H-3	50 [d,e]	(50) [d,e]		750 [d,e]	50 [d]		10 [d]	(10) [d]
	1	NA	NL	NL		NL	NL		NL	NL
Water reactive	3	H-2	5 [d,e]	(5) [d,e]	NA	NA	5 [d]	NA	1 [d]	(1) [d]
	2	H-3	50 [d,e]	(50) [d,e]			50 [d]		10 [d]	(10) [d]
	1	NA	NL	NL			NL		NL	NL

NL = Not Limited; NA = Not Applicable; UD = Unclassified Detonable.

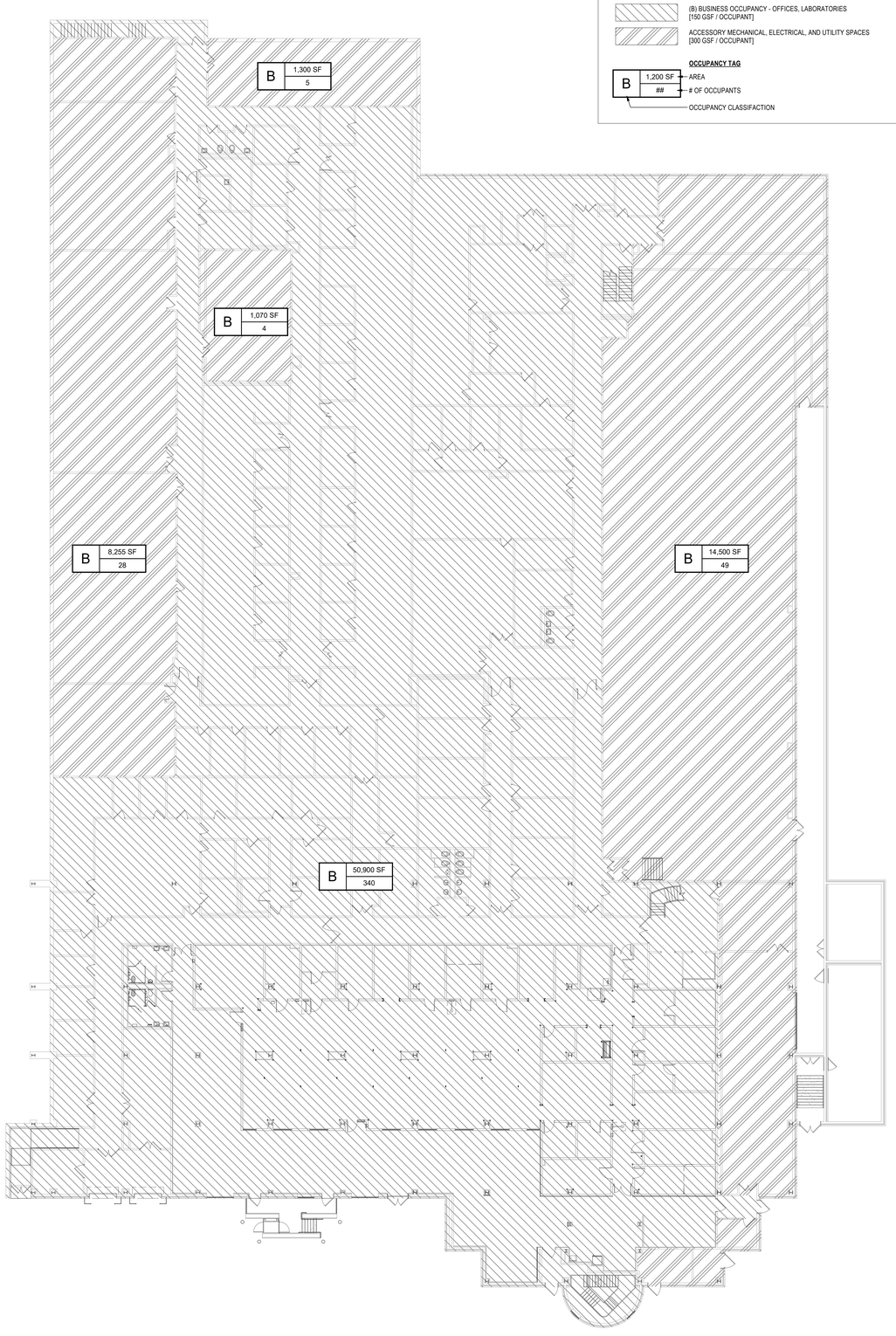
Notes:

a. For use of control areas, see Section 414.2.
b. The aggregate quantity in use and storage shall not exceed the maximum allowable quantity for storage, including applicable increases.
c. For hazardous materials in Group B higher education laboratory occupancies, see Section 428 of this code and Chapter 38 of the Fire Code of New York State.
d. Maximum allowable quantities shall be increased 100 percent in buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1. Where Note e also applies, the increase for both notes shall be applied accumulatively.
e. Maximum allowable quantities shall be increased 100 percent when stored in approved storage cabinets, day boxes, gas cabinets, gas rooms or exhausted enclosures or in listed safety cans in accordance with Section 5003.9.10 of the Fire Code of New York State. Where Note d also applies, the increase for both notes shall be applied accumulatively.
f. Quantities shall not be limited in a building equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1



1 G101 **FIRST FLOOR LIFE SAFETY PLAN - OVERALL**

1/16" = 1'-0"



2 G101 **FIRST FLOOR OCCUPANT LOAD CLASSIFICATION PLAN - OVERALL**

1/16" = 1'-0"

LEGEND

- 1 HOUR RATED PARTITION
- 2 HOUR RATED PARTITION
- 3 HOUR RATED PARTITION

REFER TO FLOOR PLANS FOR PARTITION TYPES AND PARTITION SCHEDULE FOR SPECIFIC UL ASSEMBLIES

NOTE: EXISTING FIRE-RATINGS ARE BASED ON REVIEW OF EXISTING DRAWINGS, FIELD CONDITIONS MAY VARY

- INDICATES EXISTING EXIT DISCHARGE
- INDICATES BUILDING AREA NOT IN SCOPE
- INDICATES AREA OF WORK
- (B) BUSINESS OCCUPANCY - OFFICES, LABORATORIES [150 GSF / OCCUPANT]
- ACCESSORY MECHANICAL, ELECTRICAL, AND UTILITY SPACES [300 GSF / OCCUPANT]

OCCUPANCY TAG

B | 1,200 SF (AREA) / ## (# OF OCCUPANTS) — OCCUPANCY CLASSIFACTION

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Issued/Revision YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT MICHAEL STEVEN [illegible] 041042 STATE OF NEW YORK

Key Plan:

Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

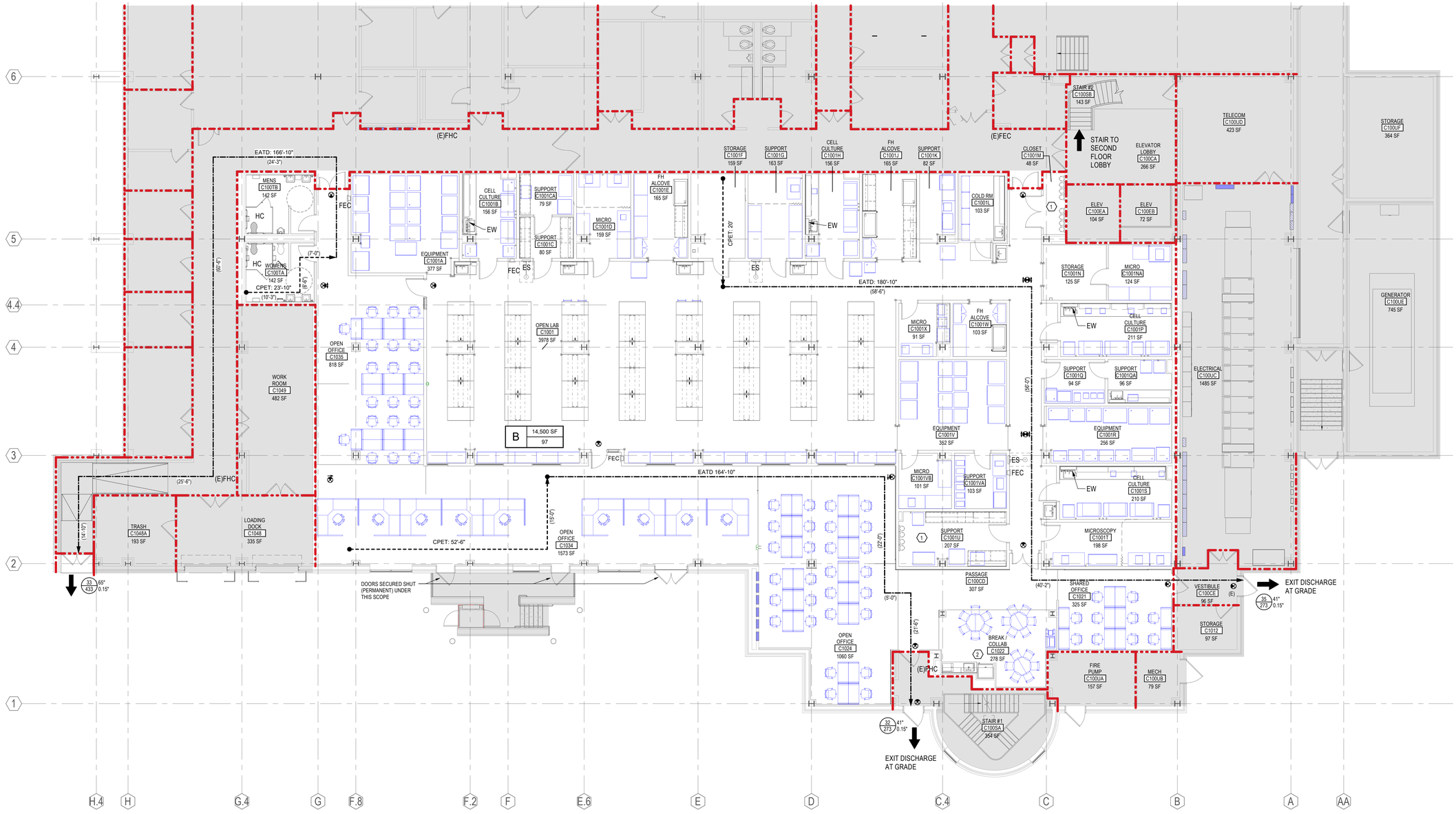
OVERALL FIRST FLOOR LIFE SAFETY PLAN

Scale: 1/16" = 1'-0"

Revision:**0**

Drawing No. **G101**

ORIGINAL SHEET - ARCH E1



1 PARTIAL FIRST FLOOR LIFE SAFETY PLAN

G102 1/8" = 1'-0"

LIFE SAFETY PLAN KEYED NOTES

1. ROOM IS TO BE PROVIDED WITH MECHANICAL VENTILATION IN COMPLIANCE WITH SECTIONS 5307.2 AND 5004.3 OF THE 2025 FIRE CODE OF NEW YORK STATE. INSTALLATION SHALL COMPLY WITH THE 2025 MECHANICAL CODE OF NEW YORK STATE. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. BOTTOM OF MECHANICAL SHAFTWAY SHALL BE UPGRADED TO 2-HOUR FIRE-RESISTANCE RATING IN COMPLIANCE WITH SECTION 713.11 OF THE 2025 BUILDING CODE OF NEW YORK STATE. ALL PENETRATIONS AT THE BOTTOM OF SHAFTWAY SHALL BE SEALED WITH UL RATED FIRESTOP ASSEMBLY COMPLYING WITH ASTM E814 AND UL 1479 REQUIREMENTS PER SECTION 714.5.1 OF THE 2025 BUILDING CODE OF NEW YORK STATE. SEE MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

RATED PARTITION IDENTIFICATION

WITHIN AREA(S) OF WORK, IDENTIFY NEW AND EXISTING FIRE-RATED PARTITION CONSTRUCTION AS FOLLOWS:

RATING | PARTITION TYPE | PROTECT ALL OPENINGS,

- **REQUIRED TEXT** FOR ALL IDENTIFIED PARTITIONS
- **PARTITION TYPE** FIRE WALL, FIRE BARRIER, SMOKE BARRIER, FIRE AND SMOKE BARRIER
- **RATING** FIRE RATING INDICATED IN HOURS

EXAMPLE: 1HR FIRE WALL PROTECT ALL OPENINGS

TEXT: PAINTED STENCILED TEXT, MINIMUM 3" HIGH, MINIMUM 3/8" STROKE

COLOR: CONTRASTING WITH SUBSTRATE COLOR, IN ORDER OF PREFERENCE - RED, ORANGE OR OTHER CONTRASTING COLOR

WHERE REQUIRED: PROVIDE WHERE THERE IS AN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACE, FIRE WALLS, BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALLS OR PARTITIONS REQUIRED TO HAVE PROTECTED OPENINGS AND/OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN THE CONCEALED SPACE.

LOCATION: WITHIN 15'-0" OF EACH END OF THE PARTITION OR WALL AND AT INTERVALS NOT EXCEEDING 30'-0" ON CENTER HORIZONTALLY. LOCATE TO ENSURE OPTIMAL VIEWING FROM A DISTANCE WITHIN CONCEALED SPACE UPON COMPLETION OF WORK.

LIFE SAFETY LEGEND

- 1 HOUR RATED PARTITION
- 2 HOUR RATED PARTITION
- 3 HOUR RATED PARTITION

REFER TO FLOOR PLANS FOR PARTITION TYPES AND PARTITION SCHEDULE FOR SPECIFIC UL ASSEMBLIES

X/Y W/Z

EGRESS DOOR TAG:
W = WIDTH OF LIMITING COMPONENT IN INCHES. DOOR CALCULATION = ACTUAL WIDTH - (DOOR THICKNESS + (2 x STOP DEPTH))
X = "ACTUAL EXIT CAPACITY" - PROPOSED NUMBER OF OCCUPANTS USING EXIT
Y = "CALCULATED EXIT CAPACITY" - MAX. NUMBER OF OCCUPANTS EXIT CAN ACCOMMODATE = W / Z
Z = EGRESS WIDTH PER OCCUPANT SERVED (INCHES PER OCCUPANT) PER TABLE 1005.3

ES	EMERGENCY SHOWER AND EYEWASH
EW	EMERGENCY EYEWASH
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
HC	HANDICAP TOILET STALL
SS	SERVICE SINK
CPET	COMMON PATH OF EGRESS TRAVEL (TOTAL)
EATD	EGRESS ACCESS TRAVEL DISTANCE (TOTAL)
(x'-x")	INDICATES LENGTH OF EACH SEGMENT FOR CPET AND EATD
	EXIT
	EXIT SIGN

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Issued/Revision		YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT MICHAEL STEVEN [illegible] 041042 STATE OF NEW YORK

Key Plan:

Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

PARTIAL FIRST FLOOR LIFE SAFETY PLAN

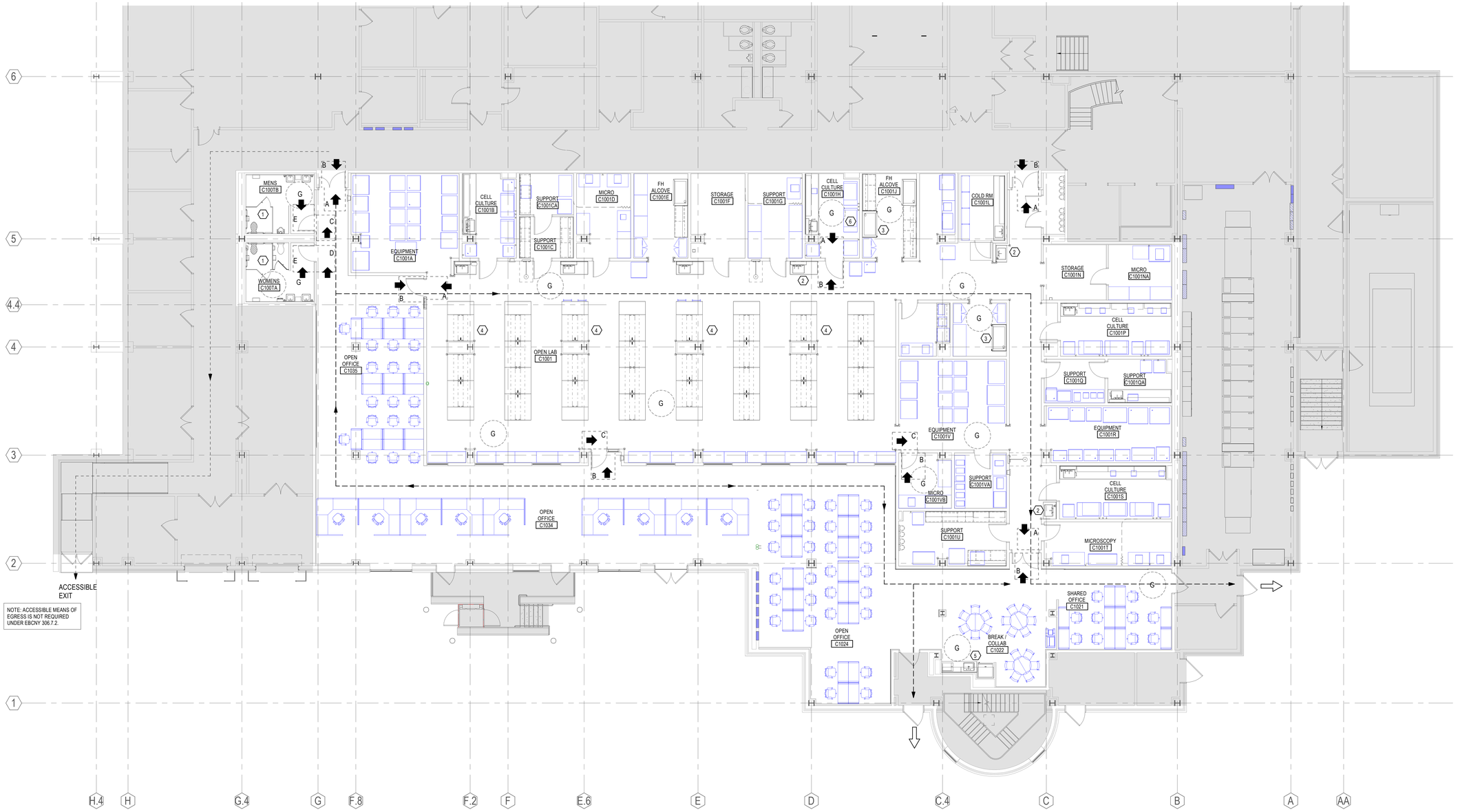
Scale: As indicated

Revision:**0**

Drawing No. **G102**

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ORIGINAL SHEET - ARCH E1



B1 G103 PARTIAL FIRST FLOOR ACCESSIBILITY PLAN

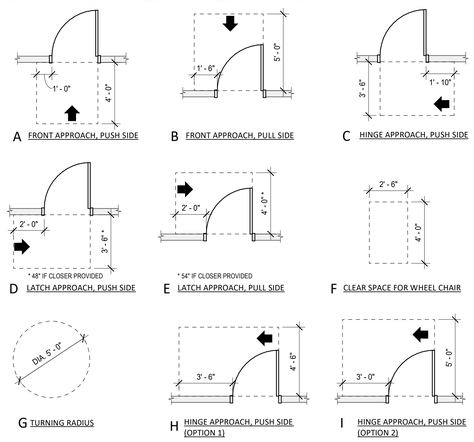
1/8" = 1'-0"

ACCESSIBILITY PLAN KEYNOTES

1. ACCESSIBLE TOILET STALL.
2. ACCESSIBLE LAB SINK.
3. ACCESSIBLE FUME HOOD.
4. ACCESSIBLE LAB BENCH. UTILITIES SHALL BE PROVIDED IN MAX REACH RANGES PER 2017 ACCESSIBILITY CODE OF NEW YORK STATE, SEE DRAWING A001.
5. ACCESSIBLE SINK CABINET WITH SWING CLEAR DOORS (DOOR AND TOE KICK) SEE DETAIL B5/A411.
6. ACCESSIBLE BIOSAFETY CABINET BY OWNER.

ACCESSIBILITY COMPLIANCE LEGEND

ALL WORK SHALL BE IN COMPLIANCE WITH CHAPTER 11 OF 2025 EBNYS AND 2017 ACCESSIBILITY CODE OF NEW YORK STATE.
ALL DIMENSIONS SHOWN ARE MINIMUM VALUES FOR EXISTING BUILDING COMPLIANCE.



ACCESSIBILITY CODE SUMMARY

ALL WORK SHALL BE IN COMPLIANCE WITH CHAPTER 11 OF 2025 EBNYS AND 2017 ACCESSIBILITY CODE OF NEW YORK STATE.

ICC / ANSI A117.1-2017 REFERENCE	PROJECT DRAWING REFERENCE	ICC / ANSI A117.1-2017 REFERENCE	PROJECT DRAWING REFERENCE
304 TURNING SPACE	G103, A001	504 STAIRWAYS	EXISTING NOT IN SCOPE
305 CLEAR FLOOR SPACE	G103, A001	505 HANDRAILS	EXISTING NOT IN SCOPE
306 KNEE AND TOE CLEARANCE 306.1 GENERAL 306.3 KNEE CLEARANCE	A001	603 TOILET AND BATHING ROOMS	A001, A401
		604 WATER CLOSETS AND TOILET COMPARTMENTS	A001, A401
308 REACH RANGES 308.1 GENERAL 308.2 FORWARD REACH 308.2.1 UNOBSTRUCTED 308.3 SIDE REACH 308.3.1 UNOBSTRUCTED	A001	605 URINALS	A001, A401
		606 LAVATORIES AND SINKS	A001, A401
		609 GRAB BARS	A001, A401
402 ACCESSIBLE ROUTES 402.1 GENERAL 402.2 COMPONENTS	G103	702 ALARMS	PER NFPA-72
		703 SIGNS	A181
403 WALKING SURFACES 403.1 GENERAL 403.2 FLOOR SURFACE 403.5 CLEAR WIDTH	G103, A141	804 KITCHENS AND KITCHENETTES 804.1 GENERAL 804.4 SINKS 804.5 STORAGE 804.6 APPLIANCES	G103, A141
404 DOORS AND DOORWAYS 404.1 GENERAL 404.2 MANUAL DOORS 404.2.1 DOUBLE LEAF DOORS AND GATES 404.2.2 CLEAR WIDTH 404.2.3 MANEUVERING CLEARANCES AT DOORS 404.2.3.1 SWINGING DOORS 404.2.4 THRESHOLDS AT DOORWAYS 404.2.5 TWO DOORS IN A SERIES 404.2.6 DOOR HARDWARE 404.2.7 CLOSING SPEED 404.2.8 DOOR- OPENING FORCE 404.2.9 DOOR SURFACE 404.3 AUTOMATIC DOORS	G103, A600 ALL DOOR HARDWARE AND OPERATIONS MEET ACCESSIBILITY REQUIREMENTS AND ARE LISTED IN DOOR HARDWARE SPECIFICATIONS		

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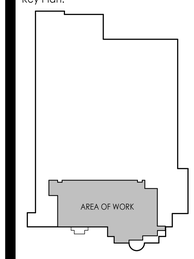
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Permit/Seal



Key Plan:



Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

PARTIAL FIRST FLOOR ACCESSIBILITY PLAN

Scale: As indicated
Revision: **0**
Drawing No. **G103**

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ORIGINAL SHEET - ARCH E1

1 - GENERAL NOTES

A. ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, HVAC, PLUMBING, AND CIVIL DRAWINGS AND SPECIFICATIONS.

B. CONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS, ETC., IN FIELD AND NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION OR SHOP DRAWINGS.

C. THE DRAWINGS ARE INTENDED TO REQUIRE AND TO INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT PROPER FOR THE WORK.

D. ALL WORK SHALL COMPLY WITH ALL LOCAL, STATE, AND NATIONAL CODES AND REQUIREMENTS.

E. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND SAFETY PROCEDURES. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS OR THEIR AGENTS OR EMPLOYEES OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK.

F. OBSERVE ALL OSHA AND OTHER APPLICABLE SAFETY REQUIREMENTS INCLUDING THE USE OF SAFETY GLASSES, HARD HATS, AND PROTECTION OF AREA WHEN WORKING OVERHEAD. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR CONSTRUCTION SAFETY AT ALL TIMES.

G. COORDINATE WORK OF ALL DISCIPLINES (ARCH., STRUCT., ELECRT., ETC.) WITH EXISTING CONDITIONS, SPECIAL REQUIREMENTS, CONSTRUCTION SCHEDULE AND OTHER CONTRACTORS PERFORMING WORK AT THE SITE.

H. THE CONTRACTOR SHALL DESIGN AND PROVIDE ANY TEMPORARY SHORING, BRACING, ETC., AS NEEDED FOR THE WORK SO AS NOT TO ENDANGER THE STRUCTURAL INTEGRITY OF ANY EXISTING FEATURE.

I. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGE DONE TO EXISTING FEATURES AS A RESULT OF THIS WORK. DAMAGED ITEMS SHALL BE REPLACED IN KIND AND AT NO ADDITIONAL COST TO THE OWNER.

J. SEE SPECIFICATIONS FOR FULL SCOPE OF REQUIREMENTS APPLICABLE TO THIS PROJECT.

K. SHOP DRAWINGS: REPRODUCTION OF DESIGN DRAWINGS SHALL NOT BE PERMITTED FOR SHOP DRAWING SUBMISSIONS. THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER SHALL REVIEW AND PROVIDE REVIEW STAMP ON SHOP DRAWING SUBMISSIONS PRIOR TO SUBMITTAL TO ARCHITECT/ENGINEER INDICATING UNDERSTANDING AND ACCEPTANCE OF SUBMITTAL AND CONFIRMING CONFORMANCE TO PROJECT PLANS/SPECIFICATIONS.

2 - DESIGN CRITERIA

A. ROOF LOADS

LIVE LOAD	- N/A - NO MODIFICATION TO EXISTING DESIGN
GROUND SNOW LOAD Pg	- N/A - NO MODIFICATION TO EXISTING DESIGN
FLAT ROOF SNOW LOAD Pf	- N/A - NO MODIFICATION TO EXISTING DESIGN
SNOW EXPOSURE FACTOR (Ce)	- N/A - NO MODIFICATION TO EXISTING DESIGN
SNOW LOAD IMPORTANCE FACTOR (I)	- N/A - NO MODIFICATION TO EXISTING DESIGN
THERMAL FACTOR Ct	- N/A - NO MODIFICATION TO EXISTING DESIGN
SNOW DRIFTING LOAD EFFECTS CONSIDERED PER ASCE 7.	

B. FLOOR LIVE LOADS

OPEN OFFICE / OPEN LAB ON GRADE (FLOOR INFILLS)	- 125 PSF

C. WIND LOADS

ULTIMATE DESIGN WIND SPEED Vult	- 110 MPH
NOMINAL DESIGN WIND SPEED Vasd	- 85 MPH
RISK CATEGORY	- II
WIND EXPOSURE	- C
INTERNAL PRESSURE COEFFICIENT	- 0.18

D. SEISMIC

SEISMIC RISK CATEGORY	- II
SEISMIC IMPORTANCE FACTOR, Ie	- 1.0
MAPPED SPECTRAL RESPONSE Ss AND Sd1	- 0.14/0.041
SEISMIC SITE CLASS	- D
DESIGN SPECTRAL RESPONSE Sds AND Sd1	- 0.12/0.059
SEISMIC DESIGN CATEGORY	- A
BASIC SEISMIC FORCE - RESISTING SYSTEM(S)	- N/A - NO MODIFICATION TO EXISTING DESIGN
ANALYSIS PROCEDURE USED	- EQUIVALENT LATERAL FORCE

E. MODIFICATIONS ARE DESIGNED USING THE 2025 BUILDING CODE OF NEW YORK STATE (2025 BCNYS)

3 - EARTHWORK

A. MATERIALS

a. ENGINEERED FILL, BACK FILL AND SUBBASE MATERIAL SHALL BE A SOIL GRANULAR MATERIAL CONFORMING TO THE GRADATION CRITERIA REFERENCED IN THE GEOTECHNICAL REPORT.

b. SAND SHALL CONSIST OF CLEAN SAND HAVING HARD, DURABLE, UNCOATED GRAINS, FREE FROM DELETERIOUS MATTER; FINENESS MODULUS SHALL BE 2.85+/- 0.20.

B. SUBMIT TEST RESULTS VERIFYING MATERIALS TO BE USED MEET THE ABOVE REQUIREMENTS.

C. MATERIALS EXCAVATED BELOW INDICATED SUBGRADE ELEVATIONS, UNDER FOOTINGS, FOUNDATION BASES OR RETAINING WALLS SHALL BE REPLACED WITH LEAN CONCRETE FILL. BACK FILL OTHER AREAS WITH AUTHORIZED MATERIALS.

D. EXCAVATIONS SHALL BE KEPT FREE OF WATER AND ANY UNDESIRABLE MATERIALS WHILE WORK IS IN PROGRESS. NOTIFY OWNER'S REPRESENTATIVE WHEN EXCAVATION HAS BEEN RECOMPACTED AND REINFORCING PLACED. DO NOT PLACE CONCRETE UNTIL DIRECTED TO DO SO.

E. PLACE ENGINEERED FILL IN LIFTS NOT EXCEEDING 6 INCHES TO WITHIN 8 INCHES OF THE BOTTOM OF SLAB. COMPACT EACH LIFT TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST (ASTM D698).

F. COMPACT BACKFILL AFTER PLACING BELOW GRADE COMPONENTS TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST (ASTM D698).

G. COMPACTION TESTING TO BE PERFORMED AS FOLLOWS:

a. FILL UNDER BUILDING SLAB: A MINIMUM OF ONE TEST PER LAYER FOR EVERY 1000 SQUARE FEET OF ENGINEERED FILL. EACH 6" LIFT SHALL BE TESTED.

b. FOOTING AND TRENCH BACK FILL: A MINIMUM OF ONE TEST FOR EVERY TWO FEET OF FILL DEPTH FOR FOOTINGS AND ONE TEST FOR EVERY 50 LINEAR FEET OF TRENCH (MINIMUM ONE TEST PER TRENCH IF LESS THAN 50 FEET).

H. WRITTEN TEST RESULTS SHALL BE RECEIVED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF ANY CONCRETE PLACEMENT.

4 - FOUNDATIONS

A. WATER SHOULD NOT BE ALLOWED TO STAND IN THE EXCAVATIONS AND THE EXPOSED SOILS SHOULD NOT BE ALLOWED TO DESICCATE. GEOTECHNICAL REPRESENTATIVE SHOULD BE ONSITE TO DETERMINE PROPER SOIL PREPARATIONS PRIOR TO CASTING SLABS. THE SOILS ENGINEER SHOULD APPROVE IN WRITING THE BEARING SOILS FOR THE SLABS.

B. DO NOT ALLOW THE SOILS TO SLOUGH IN EXCAVATIONS.

C. DESIGN MAXIMUM ALLOWABLE BEARING PRESSURE = 4,000 PSF

5 - CONCRETE WORK

A. SUBMITTALS

a. SUBMIT SHOP DRAWINGS SHOWING FABRICATION, BENDING AND PLACEMENT OF CONCRETE REINFORCEMENT. DETAILING SHALL COMPLY WITH THE ACI DETAILING MANUAL.

b. SUBMIT CONCRETE MIX PROPORTIONS WITH SUPPORTING TEST DATA, MATERIAL CERTIFICATIONS AND PRODUCT DATA, TO DEMONSTRATE COMPLIANCE WITH THE REQUIREMENTS BELOW AND THE PROJECT SPECIFICATIONS.

B. COMPLY WITH THE FOLLOWING CODES AND STANDARDS, LATEST EDITION:

a. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".

b. ACI 305, ACI 306, ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".

c. ACI DETAILING MANUAL, LATEST EDITION.

d. ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORM WORK".

e. CONCRETE REINFORCING STEEL INSTITUTE (CRSI), "MANUAL OF STANDARD PRACTICE".

f. ACI 304 "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE".

C. MATERIALS:

a. REINFORCING BARS - ASTM A615, GRADE 60, DEFORMED.

b. WELDED WIRE FABRIC (WWF) - ASTM A185, FLAT SHEETS.

c. SUPPORTS FOR REINFORCEMENT:
- (A) FOR SLABS-ON-GRADE USE CONCRETE BRICKS OR CHAIRS TO SUPPORT AND MAINTAIN PROPER LOCATION OF WWF AND REINFORCING BARS.
- (B) BOLSTERS, CHAIRS, SPACERS, ETC. SHALL BE WIRE BAR TYPE SUPPORTS COMPLYING WITH CRSI SPECS. FOR EXPOSED TO VIEW SURFACES WHERE SUPPORTS ARE IN CONTACT WITH FORMS, PROVIDE SUPPORTS WITH LEGS WHICH ARE PROTECTED BY PLASTIC OR STAINLESS STEEL.

d. PORTLAND CEMENT-ASTM C150, TYPE II.

e. AGGREGATES-ASTM C33.

f. PROHIBITED ADMIXTURES-CALCIUM CHLORIDE THYOCYANATES OR ADMIXTURES CONTAINING MORE THAN 0.1% CHLORIDE IONS ARE NOT PERMITTED.

D. PROPORTIONING AND DESIGN OF MIXES:

a. PREPARE DESIGN MIXES FOR EACH TYPE, AND STRENGTH OF CONCRETE BY EITHER LABORATORY TRIAL BATCH OR FIELD EXPERIENCE METHODS AS SPECIFIED IN ACI 318.

b. NORMAL WEIGHT CONCRETE-MINIMUM 28 COMPRESSIVE STRENGTH 4000 PSI. (TYP. UNO) COORDINATE WITH SPECIFICATIONS.

E. FORM WORK:

a. PROVIDE OPENINGS IN CONCRETE FORM WORK TO ACCOMMODATE WORK OF OTHER TRADES.

F. CONCRETE SHALL BE READY MIXED PER ASTM C94. JOB SITE MIXING SHALL NOT BE PERMITTED.

G. CONCRETE PLACEMENT:

a. THE ADDITION OF WATER TO THE CONCRETE MIX AT THE JOB SITE IS NOT PERMITTED UNLESS SPECIFICALLY ALLOWED BY THE OWNER'S REPRESENTATIVE.

b. PROTECT CONCRETE WORK FROM THE DETRIMENTAL EFFECTS OF COLD TEMPERATURES IN COMPLIANCE WITH ACI 306.

c. PROTECT CONCRETE WORK FROM THE DETRIMENTAL EFFECTS OF HOT WEATHER OR WINDY CONDITIONS IN COMPLIANCE WITH ACI 305.

d. PLACE FLOOR SLABS TO SURFACE LEVEL TOLERANCES OF FF20-FL17.

H. CONCRETE FINISHES:

a. FORMED SURFACES EXPOSED TO VIEW - SMOOTH RUBBED FINISH. SLAB FINISH - PROVIDE TROWEL FINISH.

I. PROVIDE MOISTURE CURE TO SLAB SURFACES FOR 7 DAYS BY EITHER COVERING THE CONCRETE WITH WATER, APPLYING A CONTINUOUS WATER-FOG SPRAY, OR COVERING WITH AN ABSORPTIVE COVER. CHEMICAL CURING COMPOUNDS WILL NOT BE ALLOWED ON FLOOR SLABS.

J. THE OWNER WILL EMPLOY A TESTING AGENCY TO PERFORM SAMPLING AND TESTING AND SUBMIT TEST REPORTS.

K. SAMPLING AND TESTING OF CONCRETE SHALL INCLUDE:

a. SLUMP-ASTM C143-ONE TEST AT POINT OF PLACEMENT FOR EACH TRUCK LOAD OF EACH TYPE OF CONCRETE UNTIL CONCRETE CONSISTENCY IS UNIFORM, AND AT LEAST EVERY THIRD TRUCK THEREAFTER, ADDITIONAL TESTS WHEN CONCRETE C CONSISTENCY SEEMS TO HAVE CHANGED.

b. AIR ENTRAINMENT-ASTM C173 VOLUMETRIC METHOD, OR ASTM C231 PRESSURE METHOD, ONE FOR EACH DAY'S PLACEMENT OF EACH TYPE OF AIR ENTRAINED CONCRETE.

c. CONCRETE TEMPERATURE-TEST HOURLY WHEN AIR TEMPERATURE IS 41°F AND BELOW OR WHEN 80°F AND ABOVE; AND EACH TIME A SET OF COMPRESSION TEST CYLINDERS IS MADE.

d. COMPRESSION TEST SPECIMENS-ASTM C31-ONE SET OF 6 CYLINDERS FOR EACH COMPRESSIVE STRENGTH TEST. MOLD AND STORE CYLINDERS FOR LABORATORY CURED TEST SPECIMENS. COMPRESSIVE STRENGTH TESTS-ASTM C39-ONE SET FOR EACH DAY'S PLACEMENT EXCEEDING 5 CUBIC YARDS PLUS ADDITIONAL SETS FOR EACH 50 CUBIC YARDS OVER AND ABOVE THE FIRST 25 CUBIC YARDS OF EACH CONCRETE CLASS PLACED IN ONE DAY; TWO SPECIMENS TESTED AT 7 DAYS, TWO SPECIMENS TESTED AT 28 DAYS, AND TWO SPECIMENS RETAINED IN RESERVE FOR LATER TESTING IF REQUIRED.

e. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF fc=4000 PSI (TYPICAL UNLESS NOTED)

f. ALL LAP SPLICES SHALL BE 48 BAR DIAMETERS (TYP. UNO)

6 - MASONRY

A. SEE STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR LOCATION, SIZE AND SPACING OF REINFORCED MASONRY.

B. SUBMITTALS

a. SUBMIT SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT OF MASONRY REINFORCEMENT COMPLYING WITH ACI DETAILING MANUAL.

C. SUBMIT DESIGN MIXES FOR EACH TYPE GROUT AT LEAST 15 DAYS PRIOR TO START OF WORK.

D. MATERIALS

a. CONCRETE MASONRY UNITS: HOLLOW OR SOLID UNITS ASTM C90. ALL UNITS SHALL BE TYPE I, NORMAL WEIGHT AUTOCLAVED CURED. MOISTURE CONTENT SHALL NOT EXCEED 30% OF MAXIMUM ABSORPTION, AND SHRINKAGE SHALL BE LESS THAN 0.35% AS PER ASTM C426.
b. MORTAR: ASTM C270, TYPE S. NO MASONRY CEMENT WILL BE ALLOWED.
c. f'm=1,500 psi
d. REINFORCEMENT BARS: ASTM A615 GRADE 60.
e. JOINT REINFORCEMENT: TRUSS TYPE WITH 0.148 INCH DIAMETER
f. FINE GROUT: ASTM C476.

E. TESTING PROCEDURE:

a. BLOCKS SHALL BE TESTED PER ASTM C-140 FOR STRENGTH, ABSORPTION AND SIZE.

F. STRENGTH OF MASONRY CONSTRUCTION SHALL BE DETERMINED BY UNIT STRENGTH METHOD IN ACCORDANCE WITH ACI 530.1, SPECIFICATION FOR MASONRY STRUCTURES, SECTION 1.4.

a. GROUT COMPRESSIVE STRENGTH SHALL BE DETERMINED IN ACCORDANCE WITH ASTM C-1019. GROUT SLUMP SHALL BE DETERMINED IN ACCORDANCE WITH ASTM C-143. ONE SET OR MORTAR CUBES (3 EACH) SHALL BE PREPARED EVERY 5000 SQ. FT. OF WALL CONSTRUCTED.

G. PROTECT MASONRY WORK FROM DAMAGE DUE TO OTHER WORK AND THE WEATHER AS RECOMMENDED BY NCMA. ALL UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. SOLID UNITS SHALL BE LAID WITH FULL HEAD AND BED JOINTS, 3/8" THICK. LAY IN FULL RUNNING BOND UNLESS INDICATED OTHERWISE.

H. PLACE HORIZONTAL REINFORCING ON FULL MORTAR BED AT 16" O.C. MIN. OR AS INDICATED ON DRAWINGS. VERTICAL REINFORCING IN MASONRY WHERE SHOWN SHALL BE PLACED IN GROUT FILLED CORES AND PROPERLY LOCATED AS INDICATED. SPLICES SHALL BE MINIMUM 48 X BAR DIAMETER.

I. USE LOW-LIFT GROUTING TECHNIQUES TO FILL CORES, UNLESS HIGH-LIFT GROUTING (VERTICAL PLACEMENT >4'0") IS APPROVED BY THE OWNER'S REPRESENTATIVE IN WRITING.

J. USE UNIT TEST METHOD, ACCORDING TO ASTM C -140, TO VERIFY MATERIALS PROPERTIES.

K. ALL EXPOSED MORTAR JOINTS SHALL BE TOOLED.

7 - STRUCTURAL STEEL

A. STRUCTURAL STEEL WORK INCLUDES ALL STRUCTURAL STEEL TO BE FURNISHED AND ERECTED. BEAMS, COLUMNS, CHANNELS, ANGLES, JOISTS, LINTELS, BEARING PLATES, ETC., AS INDICATED ON THE DRAWINGS.

B. COMPLY WITH THE FOLLOWING CODES AND STANDARDS:

a. AISC STEEL CONSTRUCTION MANUAL, ASD, LATEST EDITION
b. AMERICAN WELDING SOCIETY (AWS) D1.1 "STRUCTURAL WELDING CODE STEEL", LATEST EDITION.
c. CURRENT OSHA ERECTION AND FABRICATION REQUIREMENTS.

C. MATERIALS:

a. BEAMS, GIRDERS AND COLUMNS: ASTM A992
b. ANGLES, BARS AND PLATES: ASTM A-36.
c. TUBE STEEL: ASTM A500, GRADE B Fy=46 KSI
d. PIPE: SCHEDULE 40 CONFORMING TO ASTM A53, GRADE B. U.N.O.
e. HIGH STRENGTH BOLTS: ASTM A 325.
f. WELDS: E70XX ELECTRODES.

D. ALL STRUCTURAL STEEL SHOP CONNECTIONS SHALL BE WELDED AND ALL FIELD CONNECTIONS SHALL BE HIGH-STRENGTH BOLTED UNLESS SHOWN OTHERWISE.

E. ALL BOLTS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION UNLESS NOTED OTHERWISE. SLIP CRITICAL BOLTS SHALL BE USED AT ALL MOMENT CONNECTIONS.

F. PROVIDE ANCHORS AND OTHER DEVICES TO BE BUILT INTO CONCRETE WORK.

G. STEEL SHALL RECEIVE ONE COAT OF PRIMER PAINT, UNLESS NOTED OTHERWISE.

H. SHOP DRAWINGS: SUBMIT SHOP DRAWINGS INCLUDING COMPLETE DETAILS AND SCHEDULES FOR FABRICATION AND ASSEMBLY OF STRUCTURAL STEEL MEMBERS, PROCEDURES AND DIAGRAMS.

I. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED (INCLUDES ALL LINTELS).

J. ALL CONNECTIONS NOT SPECIFICALLY DETAILED SHALL BE EITHER BOLTED OR WELDED CONNECTIONS.

K. ALL BOLTED CONNECTIONS SHALL BE (2) 3/4" DIA. A325 BOLTS MINIMUM (TYP. UNO).

L. ALL WELDED CONNECTIONS SHALL BE IN 3/16" FILLET WELDED ALL AROUND (TYP. UNO).

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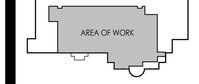
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STATE OF NEW YORK — MICHAEL JOSEPH BRENNAN — 074809 — LICENSED PROFESSIONAL ENGINEER

Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

GENERAL NOTES

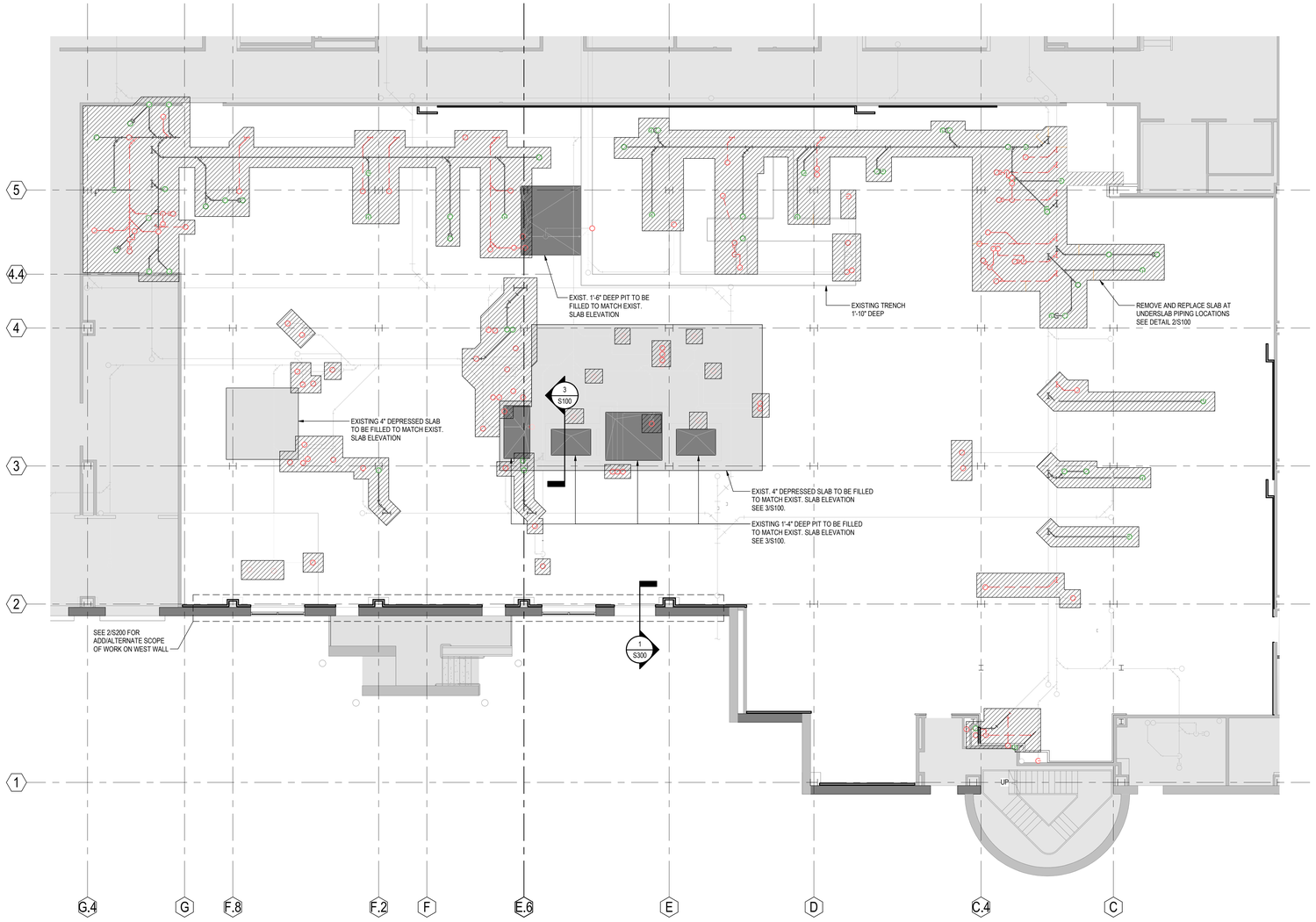
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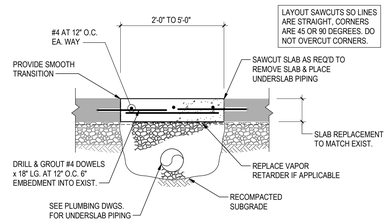
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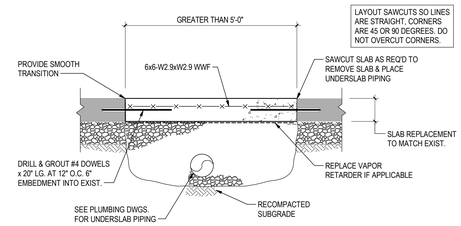
ORIGINAL SHEET - ARCH E1



1 S100 STRUCTURAL SLAB PLAN

1/8" = 1'-0"



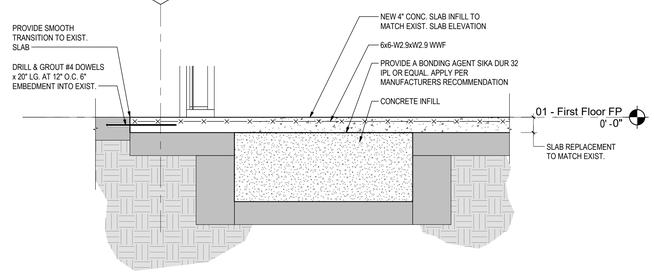


2 S100 TYPICAL SLAB REPLACEMENT FOR UNDERSLAB PIPING

3/4" = 1'-0"

SLAB PLAN LEGEND

- REMOVE AND REPLACE SLAB AT UNDERSLAB PIPING LOCATIONS SEE DETAIL 2/S100; COORDINATE ALL WITH PLUMBING
- EXISTING DEPRESSED SLAB TO BE FILLED TO MATCH EXISTING SLAB ELEVATION SEE 3/S100.
- EXISTING DEEP PIT TO BE FILLED TO MATCH EXISTING SLAB ELEVATION SEE 3/S100.



3 S100 PIT INFILL SECTION

3/4" = 1'-0"

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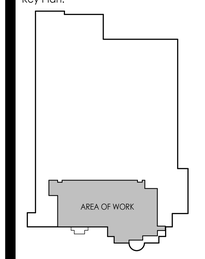
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Key Plan:



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Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

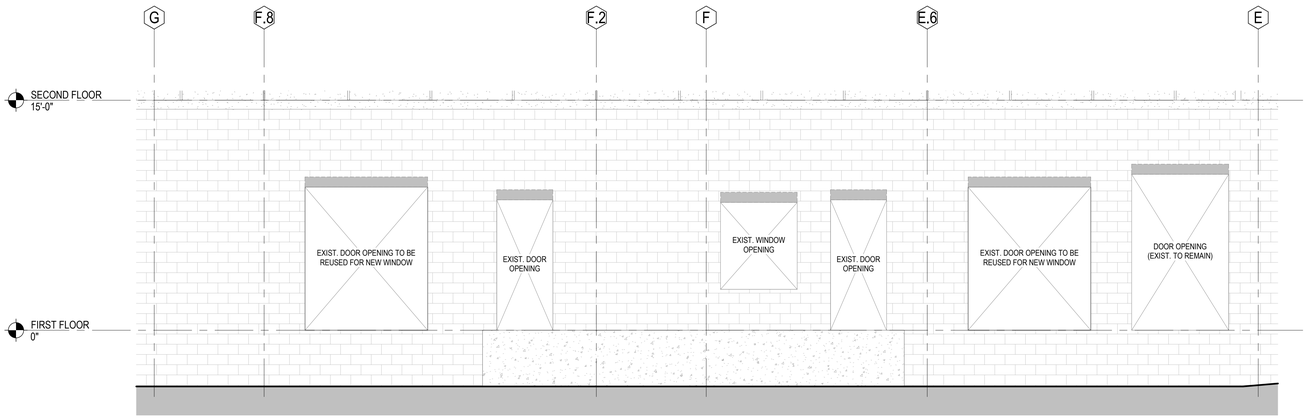
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STRUCTURAL SLAB PLAN & DETAILS

Scale: As indicated
Revision: **0**
Drawing No. **S100**

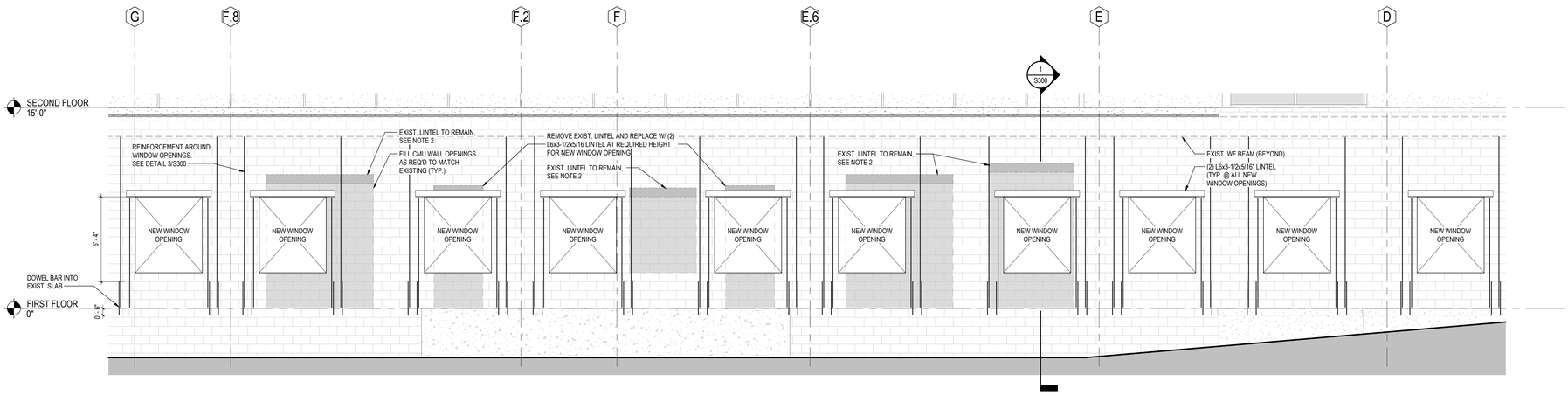
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ORIGINAL SHEET - ARCH E1



1 S200 EXISTING EXTERIOR WALL ELEVATION - WEST

1/4" = 1'-0"



2 S200 EXTERIOR WALL ELEVATION - WEST (ADD ALTERNATE #1)

1/4" = 1'-0"

NOTES:

1. WHERE NO NEW WINDOW OPENINGS EXIST THE WALL REINFORCING SHOULD BE PLACED OR MAINTAINED AT MIN. #5 BARS VERT IN FULLY GROUTED CORES @ 16" O.C.; DOWEL TO EXIST SLAB AT FLOOR LEVEL, LAP BAR FOR INSTALL.
2. EXIST LINTELS OR PORTIONS THEREOF MAY REMAIN SO LONG AS THEY DO NOT CONFLICT WITH PROPOSED REINF. FOR EDGES OF NEW OPENINGS

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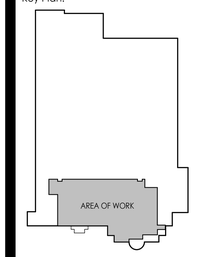
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ELEVATIONS

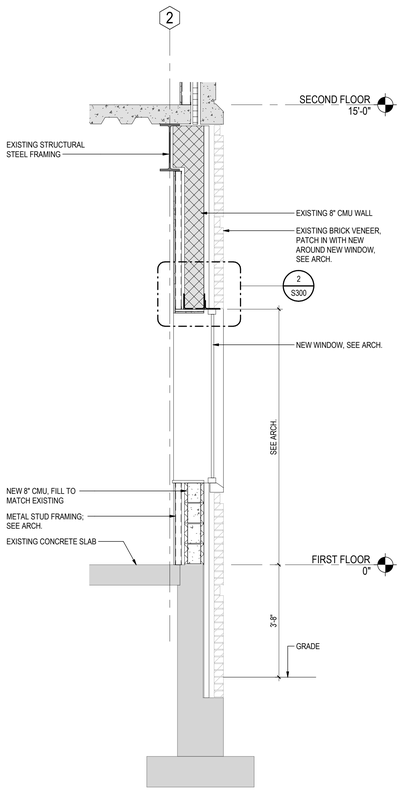
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Revision: **0**

Drawing No. **S200**

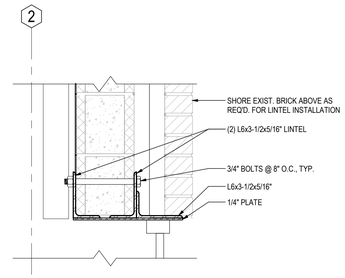
ORIGINAL SHEET - ARCH E1

<Plot location in Project Information>
7/2/2024 12:03:37 PM



1 S300 SECTION AT NEW WINDOW (ADD. ALT. #1)

1/2" = 1'-0"

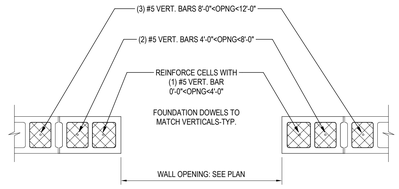


2 S300 HEADER DETAIL @ WINDOW

1 1/2" = 1'-0"

NOTES:

1. LLH ANGLE AND PLATE TO BE WELDED @ ALL JOINT EDGES W/ 3/16" WELDS



NOTES:
1. FULLY GROUT ALL REINFORCED CELLS -TYPICAL.
2. MATCH VERTICAL REINFORCING SIZE AND QUANTITY WHERE BARS LARGER THAN #5 ARE SPECIFIED ON PLANS AND DETAILS.

3 S300 TYPICAL MASONRY DETAIL AT JAMBS AND OPENINGS

3/4" = 1'-0"

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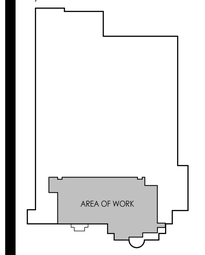
0	ISSUED FOR PERMIT	2026.04.25

Issued/Revision YYYY.MM.DD

Permit/Seal



Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

SECTIONS & DETAILS

Scale: As indicated

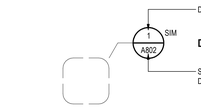
Revision: **0**

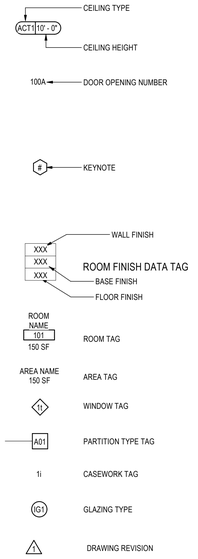
Drawing No. **S300**

ORIGINAL SHEET - ARCH E1

SYMBOLS





ABBREVIATIONS

AB.	ANCHOR BOLT
ACOUST.	ACOUSTICAL
ACT.	ACOUSTIC CEILING TILE
ACW.	ACOUSTIC WALL PANEL
A.D. ADJ.	AREA DRAIN ADJACENT
ADJUST.	ADJUSTABLE
ADMIN.	ADMINISTRATION
A.F.F.	ABOVE FINISH FLOOR
AGC.	ACOUSTIC GYPSUM CEILING
ALUM.	ALUMINUM
ANCH.	ANCHOR
APPROX.	APPROXIMATELY
APL	ACOUSTICAL PLASTER
A/V	AUDIO-VISUAL
@	AT
BD.	BOARD
BKT.	BRACKET
BLDG.	BUILDING
BLKG.	BLOCKING
BM.	BEAM
BOT.	BOTTOM
B.O.D.	BASIS OF DESIGN
B.O.	BOTTOM OF
CAB.	CABINET
CEM.	CEMENT
CH	CEILING HEIGHT
CHAN.	CHANNEL
C.I.P.	CAST IN PLACE
C.J.	CONTROL JOINT
C.L.	CENTERLINE
CLG.	CEILING
CLKG.	CAULKING
CLR.	CLEAR
CLOS.	CLOSET
C.O.	CLEAR OPENING
COL.	COLUMN
CONC.	CONCRETE
COORD.	COORDINATE
COND.	CONDITION
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CORR.	CORRIDOR
CPT	CARPET
CR	CLASSROOM
C.R.	COLD ROLLED
CRS.	COURSES
CSK.	COUNTERSINK
CSC	CONCEALED SPLINE CEILING
C.T.	CERAMIC TILE
CU.	CUBIC
C.U.H.	CABINET UNIT HEATER
DET.	DETAIL
DEMO.	DEMOLITION
D.F.	DRINKING FOUNTAIN
D.H.	DOUBLE HUNG OR DOOR HOLDER
DIA.	DIAMETER
DIM.	DIMENSION
DISP.	DISPENSER
DP	DEEP
DN.	DOWN
D.O.	DOOR OPENING
DS.	DOWNSPOUT
D.W.	DRYWALL
DWG.	DRAWING
E.S.	EACH SIDE
EA.	EACH
E.J.	EXPANSION JOINT
EL.	ELEVATION (GRADE)
ELEC.	ELECTRICAL
ELEV.	ELEVATION (FACADE) OR ELEVATOR
E.O.S.	EDGE OF SLAB
EQ. =	EQUALS
EXH.	EXHAUST
EXIST., EXST.	EXISTING
EXP. JT.	EXPANSION JOINT
EXP.	EXPOSED
EXT.	EXTERIOR
F. A.	FIRE ALARM
F. A.	FRESH AIR
F.D.C.	FIRE DEPT. CONNECTION
F.C.	FIRE CODE
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.H.	FLAT HEAD
FIN.	FINISH
FL.	FLOOR
FLASH.	FLASHING
FLUOR.	FLUORESCENT
F.O.	FRAMED OPENING
F.P.	FIREPROOFING
F.S.	FULL SIZE
FT.	FEET, FOOT
FND	FOUNDATION
GA.	GAUGE
GALV.	GALVANIZED
GB	GRAB BARS
GBACT	GYPSUM BACKED ACT
G.B.B.	GYPSUM BACKER BOARD
G.C.	GENERAL CONTRACTOR
GL.	GLASS
GR.	GRADE
GRND.	GROUND
G.V.P.	GYPSUM BOARD & VENEER PLASTER
G.W.B.	GYPSUM WALL BOARD
GYP.	GYPSUM
H.	HIGH
H.B.	HOSE BIB
HAZMAT	HAZARDOUS MATERIAL
HDWR.	HARDWARE
H.M. HM	HOLLOW METAL
HORIZ.	HORIZONTAL
HSEKP'G	HOUSEKEEPING
HT.	HEIGHT
HVAC.	HEATING, VENTILATING & AIR CONDITIONING
I.D.	INSIDE DIAMETER
IN.	INCH, INCHES
INCAN.	INCANDESCENT
INSUL.	INSULATION
INT.	INTERIOR
INV.	INVERT
I.P.S.	INSIDE PIPE SIZE
JAN.	JANITOR
JST.	JOIST
JNT.	JOINT
LAM.	LAMINATED
LB, #	POUND
L.D.P.	LAMINATED DRYWALL PARTITION
LF	LINEAR FOOT (FEET)
LGM	LIGHT GAUGE METAL
L.P.	LOW POINT
LT.	LIGHT
LVR.	LOUVER
L.W.	LIGHT WEIGHT
MACH.	MACHINE
MAS.	MASONRY
MAT'L	MATERIAL
MAX.	MAXIMUM
M.D.O.	MEDIUM DENSITY OVERLAY PLYWOOD
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MLDG.	MOULDING
M.O.	MASONRY OPENING
M.R.	MOISTURE RESISTANT
M.T.	METAL THRESHOLD
MTL.	METAL
N/A	NOT APPLICABLE
N.C.	NON-CORROSIVE
N.I.C.	NOT IN CONTRACT
NO. , #	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.A.	OVER ALL
O.A.F.	OVERALL FRAME
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OVER HEAD
OPER.	OPERATE
OPNG.	OPENING
OVHD.	OVERHEAD
OZ.	OUNCE (S)
PB.	PEGBOARD
P.C.	PLUMBING CONTRACTOR
PERIM.	PERIMETER
PERP.	PERPENDICULAR (TO)
PG.	PAGE
PL.	PLATE
PLAS.	PLASTER
PLUMB.	PLUMBING
PLYWD.	PLYWOOD
PNL.	PANEL
PNT.	PAINT / PAINTED
POL.	POLISHED
P.L.	PLASTIC LAMINATE
P.P.T.	PRESERVATIVE PRESSURE TREATED
PR.	PAIR
PREP.	PREPARATION
PREFIN.	PREFINISHED
P.T.	PAPER TOWEL DISPENSER
PTN.	PARTITION
PTD.	PAINTED
QTY.	QUANTITY
r.	RADIUS
R.	RISER
RAD. ENCL.	RADIATOR ENCLOSURE
R.D.	ROOF DRAIN
REFIN.	REFINISH
REINF.	REINFORCING
REQD.	REQUIRED
RESIL.	RESILIENT
RET.	RETAINING
REV.	REVISED
RF.	ROOF
RM.	ROOM
R.O.	ROUGH OPENING
R.W.L.	RAIN WATER LEADER
R.B.	RESILIENT BASE
RND	ROUND
R.T.U.	ROOF TOP UNIT
SCHED.	SCHEDULE
S.D.	SOAP DISPENSER
SECT.	SECTION
S.F.	SQUARE FOOT / FEET
SH.	SHELVES
SHT.	SHEET
SIM.	SIMILAR
SGL	SINGLE
SLID.	SLIDING
SP.	STANDPIPE
SPEC.	SPECIFICATIONS
SPED.	SPECIAL EDUCATION ROOM
SQ.	SQUARE
S.S.	STAINLESS STEEL
S.T.	STRUCTURAL STEEL
S.T.C.	SOUND TRANSMISSION CLASS
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
S.V.	SHEET VINYL
T.	TREADS
T.B.	TACK BOARD
TEL.	TELEPHONE
TEMP.	TEMPERED
TERR.	TERRAZZO
TG.	TEMPERED GLASS
T. & G	TONGUE & GROOVE
THK.	THICKNESS
THRESH.	THRESHOLD
TLT.	TOILET
T.O.J.	TOP OF JOIST
T.O.S.	TOP OF SLAB
	TOP OF STEEL
T.O.W.	TOP OF WALL
T.P.	TOILET PAPER DISPENSER
TYP.	TYPICAL
UC.	UNDERCUT
U.O.N.	UNLESS OTHERWISE NOTED
U.V.	UNIT VENT
V.	VENT
V.C.T.	VINYL COMPOSITION TILE
VEND.	VENDING, VENDOR
VERT.	VERTICAL
VEST.	VESTIBULE
V.I.F.	VERIFY IN FIELD
VT	VINYL TILE
W.	WIDE
W/	WITH
W.C.	WATER CLOSET
WD.	WOOD
W.D.	WINDOW DIMENSION
W.F.	WIDE FLANGE (STRUCTURAL SHAPE)
W.I.	WROUGHT IRON
WIND.	WINDOW
W.P.	WATERPROOFING
WT.	WEIGHT
W.W.M.	WELDED WIRE MESH
X	INDICATES TIMES OR BY
YD.	YARD
Z	ZEE (STRUCTURAL SHAPE)

THE PRECEEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS.

GENERAL NOTES

1. THESE GENERAL NOTES ARE APPLICABLE TO THE ENTIRE CONSTRUCTION DOCUMENT SET UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE TO FINISH FACE AT EXISTING CONSTRUCTION, TO FINISH FACE OF MASONRY CONSTRUCTION AND TO FACE OF FRAMING AT NEW STUD FRAMED GYPSUM WALL BOARD PARTITIONS, UNLESS OTHERWISE NOTED.
3. +/- NOTATIONS ARE USED IN DIMENSION STRINGS TO ACCOUNT FOR VARIATIONS BETWEEN DRAWINGS AND FIELD CONDITIONS. GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS DURING LAYOUT AND INFORM ARCHITECT OF ANY DISCREPANCIES OR NECESSARY MODIFICATIONS PRIOR TO PROCEEDING WITH CONSTRUCTION
4. PROVIDE UL LISTED FIRE-RATED FIRE AND SMOKE STOPPING AND/ OR INFILL ASSEMBLY AT ALL PENETRATIONS THROUGH FIRE AND SMOKE-RATED CONSTRUCTION AS REQUIRED TO MAINTAIN THE INTEGRITY OF ANY AND ALL FIRE RATED ASSEMBLIES AND SMOKE PARTITIONS.
5. PROVIDE 16 GAUGE SHEET STEEL BLOCKING IN ALL WALLS AS REQUIRED FOR THE SECURE AND PROPER INSTALLATION OF ALL FRAMES, TRIM, CASEWORK, FURNITURE, SHELVING, ETC. SEE INTERIOR ELEVATIONS, DETAIL DRAWINGS, CASEWORK AND MILLWORK DRAWINGS, AND EQUIPMENT DRAWINGS FOR ADDITIONAL BLOCKING COORDINATION REQUIREMENTS.
6. REVIEW LOCATION OF SWITCHES, CREDENTIAL READERS, AND DOOR ACTUATORS WITH ARCHITECT AND OWNER PRIOR TO ROUGH IN.
7. ADJACENT AREAS AND/OR PORTIONS OF THE WORK AREA ARE OWNER OCCUPIED. THE WORK SHALL BE COORDINATED TO ALLOW OWNER ACCESS ADJACENT TO AND AROUND THE PROJECT SPECIFIC AREAS AT ALL TIMES UNLESS SPECIFICALLY PERMITTED IN ADVANCE BY THE OWNER.
8. SPECIAL PROTECTION AND SEPARATION IS REQUIRED FOR WORK ADJACENT TO OCCUPIED SPACES. AIR BARRIERS, AIR SEPARATION, AND OTHER PROTECTION SHALL BE REQUIRED TO SEPARATE WORK FROM ALL OWNER OCCUPIED AREAS. PROTECTION SHALL BE REQUIRED TO RESIST IMPACT BY OWNER TRAFFIC; CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING IMPACT REQUIREMENTS WITH OWNER'S REPRESENTATIVE. ALL PROTECTION SHALL BE SUBJECT TO REVIEW AND APPROVAL BY THE OWNER AND ARCHITECT.
9. SPECIAL NOISE CONTROL AND/OR LIMITED HOURS FOR WORK REQUIRING NOISE AND/OR VIBRATION SHALL BE REQUIRED FOR WORK IN, ADJACENT TO AND ABOVE OR BELOW OCCUPIED SPACES, INCLUDING BUT NOT LIMITED TO ANY WORK THAT MAY TRANSMIT SOUND OR VIBRATION TO OWNER OCCUPIED SPACES. ALL SCHEDULING FOR WORK PRODUCING NOISE SHALL BE SUBJECT TO APPROVAL BY THE OWNER.
10. DRAWINGS ARE NOT TO BE SCALED.
11. FIELD VERIFY DIMENSIONS AND EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION OR PROCESSING SHOP DRAWINGS.
12. THE CONTRACTOR SHALL INCLUDE ALL WORK REQUIRED TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS AS LISTED OR REFERENCED ON PLANS AND LIFE SAFETY CRITERIA.
13. WRITTEN SPECIFICATIONS ARE PROVIDED FOR THIS PROJECT AND ARE AN INTEGRAL PART OF THE CONSTRUCTION DOCUMENTS.
14. ALL FLOORS SHALL BE INSPECTED FOR DAMAGE, WARPING OR OTHER NOTICEABLE DEVIATIONS, AND PATCHED AND LEVELED PRIOR TO COVERING WITH NEW FLOOR FINISHES.
15. CONTRACTOR IS TO ENSURE THE CONTINUITY OF THE AIR/VAPOR BARRIER SYSTEM. AVM MEMBRANES AND MATERIALS ARE TO BE CONTINUOUSLY LAPPED & SEALED AT ALL WALL TO ROOF TRANSITIONS, AND AROUND ANY PENETRATIONS IN ORDER TO PROVIDE A CONTINUOUS AIR/VAPOR MOISTURE BARRIER SYSTEM. (NOTE: ALT 1 IF ACCEPTED)
16. PROVIDE PRESERVATIVE-TREATED FIRE RETARDANT WOOD AT ALL LOCATIONS WHERE WOOD IS IN DIRECT CONTACT WITH CONCRETE OR MASONRY.
17. PROVIDE 3/4" FIRE-RETARDANT TREATED PLYWOOD BACKING AT ALL ELECTRICAL, PHONE, AND SECURITY SYSTEM PANELS.
18. ALL OPENING DIMENSIONS ARE NOMINAL. THE CONTRACTOR SHALL FIELD MEASURE ALL OPENINGS AND COORDINATE WITH THE APPROPRIATE SUPPLIER FOR ALL DOORS, WINDOWS, AND LOUVERS.
19. REFER TO MEP/FP DRAWINGS FOR SIZE & LOCATION OF DRAINS, STANDPIPES, INTAKE & EXHAUST LOUVERS, GRILLES, SMOKE & FIRE DAMPERS & ALL RELATED MECHANICAL EQUIPMENT.
20. ALL CONDUITS, PLUMBING, PIPING, DUCTWORK, AND OTHER EQUIPMENT EXPOSED TO VIEW SHALL BE LOCATED PARALLEL OR PERPENDICULAR TO THE STRUCTURAL FRAMING SYSTEM.
21. SEAL ALL EXTERIOR BUILDING JOINTS AT BOTH THE EXTERIOR AND INTERIOR SURFACES AGAINST MOISTURE AND AIR INFILTRATION. (NOTE: ALT 1 IF ACCEPTED)
22. SEAL AROUND ALL DOOR FRAMES, WALL-MOUNTED FIXTURES AND EQUIPMENT TO ADJACENT WALL SURFACES.
23. THE CONTRACTOR SHALL REVIEW THE DIMENSIONS OF ALL EQUIPMENT IN THE PROJECT REGARDLESS OF THE SOURCE AND COORDINATE ACCESS TO THE SPACE AND VERIFY CLEAR FLOOR SPACE IS PROVIDED AS REQUIRED TO ENSURE EASE OF INSTALLATION.
24. BRACE PARTITIONS, SUSPENDED ITEMS, ETC. ONLY TO STRUCTURAL ELEMENTS ABOVE, DO NOT ANCHOR TO PLUMBING / SPRINKLER PIPES, DUCTWORK, ELECTRICAL CONDUIT OR SIMILAR ELEMENTS.
25. EXTEND ALL FLOORING AND WALL-BASE COMPLETELY INTO RECESSES, UNDER OPEN COUNTERTOPS, AND BEHIND ALL EQUIPMENT.
26. CLEAN ALL SURFACES PRIOR TO OCCUPANCY INCLUDING BUT NOT LIMITED TO WALLS, DOORS, FRAMES, WINDOWS, WINDOW FRAMES, FLOORS, CASEWORK, TOILET ROOMS, AND MIRRORS.
27. ENSURE SURFACES TO RECEIVE FINISHES ARE CLEAN, TRUE, AND FREE OF IRREGULARITIES. DO NOT PROCEED WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

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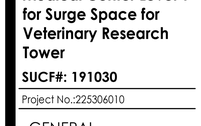
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	Issued/Revision	YYYY.MM.DD

Permit/Seal



Key Plan:

Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

GENERAL INFORMATION

Scale: 12" = 1'-0"

Revision:**0**

Drawing No. **A000**

<Pick location in Project Information>
7/1/2026 3:22:29 PM

ORIGINAL SHEET - ARCH E1

TYPICAL FLOOR CLEARANCE AND REACH RANGE DIAGRAMS

APPLICABLE STANDARDS

NEW YORK STATE ACCESSIBILITY CODE 2017 W/ SUPPLEMENT 1

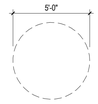
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

FIG. 305.3



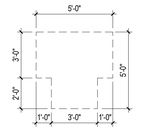
CLEAR FLOOR SPACE
UNLESS OTHERWISE SPECIFIED, MAY INCLUDE KNEE AND TOE CLEARANCES

FIG. 304.3



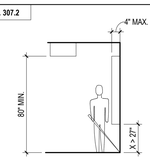
CIRCULAR TURNING SPACE
MAY INCLUDE KNEE AND TOE CLEARANCES

FIG. 304.3



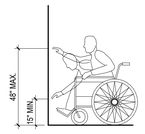
'T-TURN' TURNING SPACE
MAY INCLUDE KNEE AND TOE CLEARANCES ONLY AT THE END OF EITHER THE BASE OR ONE ARM

FIG. 307.2



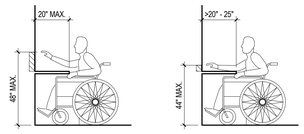
PROTRUDING OBJECTS
HANDRAILS MAY PROTRUDE 4-1/2" MAX.
DOOR CLOSERS AND STOPS MAY BE 78" MIN. AFF

FIG. 308.2.1



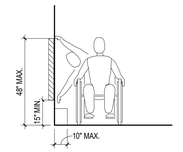
UNOBSTRUCTED FORWARD REACH

FIG. 308.2.2



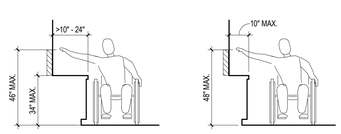
OBSTRUCTED HIGH FORWARD REACH

FIG. 308.3.1



UNOBSTRUCTED SIDE REACH

FIG. 308.3.2



OBSTRUCTED HIGH SIDE REACH

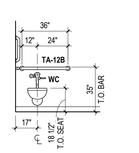
TYPICAL TOILET AND TOILET ACCESSORY DIAGRAMS

APPLICABLE STANDARDS

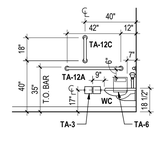
NEW YORK STATE ACCESSIBILITY CODE 2017 W/ SUPPLEMENT 1

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

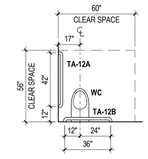
CORNELL UNIVERSITY DESIGN STANDARDS
ADA MOUNTING HEIGHTS FOR ACCESSORIES



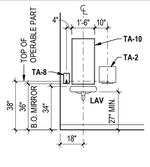
ACCESSIBLE TOILET
FRONT VIEW



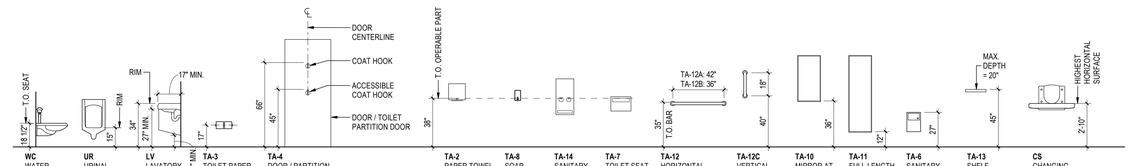
ACCESSIBLE TOILET
SIDE VIEW



ACCESSIBLE TOILET
PLAN VIEW

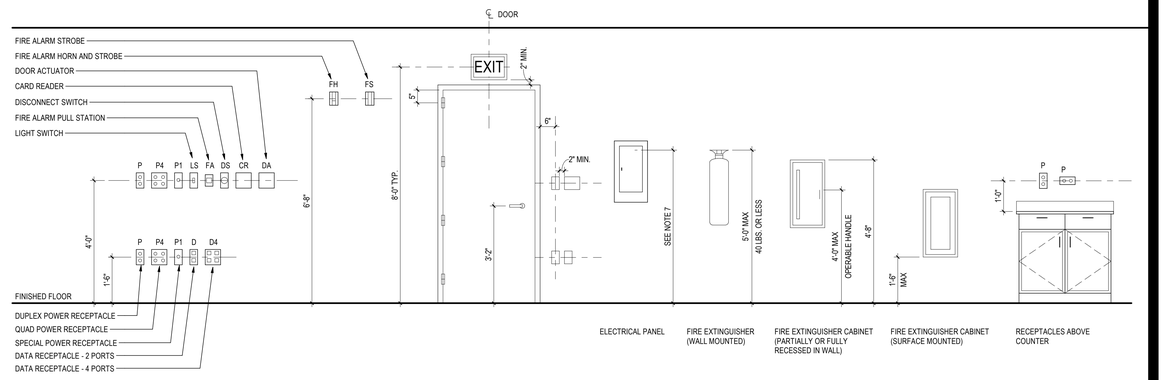


ACCESSIBLE LAVATORY
FRONT VIEW



WC WATER CLOSET
UR URINAL
LV LAVATORY
TA-3 TOILET PAPER DISPENSER
TA-4 DOOR / PARTITION MOUNTED COAT HOOK
TA-2 PAPER TOWEL DISPENSER
TA-8 SOAP DISPENSER
TA-14 SANITARY NAPKIN DISPENSER
TA-7 TOILET SEAT COVER DISPENSER
TA-12 HORIZONTAL GRAB BARS
TA-12C VERTICAL GRAB BARS
TA-10 MIRROR AT LAVATORY
TA-11 FULL-LENGTH MIRROR
TA-6 SANITARY NAPKIN RECEPTACLE
TA-13 SHELF
CS CHANGING STATION

TYPICAL EQUIPMENT AND DEVICE MOUNTING HEIGHT DIAGRAM



ELECTRICAL PANEL
FIRE EXTINGUISHER (WALL MOUNTED)
FIRE EXTINGUISHER CABINET (PARTIALLY OR FULLY RECESSED IN WALL)
FIRE EXTINGUISHER CABINET (SURFACE MOUNTED)
RECEPTACLES ABOVE COUNTER

MOUNTING HEIGHT DIAGRAM - GENERAL NOTES

1. SEE TYPICAL EQUIPMENT AND DEVICE MOUNTING HEIGHT DIAGRAM TO REFERENCE DEVICE MOUNTING HEIGHTS, TYPICAL UNLESS OTHERWISE NOTED.
2. THE CONVENIENT LOCATION OF JUNCTION BOXES AT RANDOM STUD LOCATIONS SHALL NOT NECESSARILY BE ACCEPTABLE UNLESS APPROVED BY THE ARCHITECT. DEVICES THAT REQUIRE RELOCATION SHALL BE RE-INSTALLED AS DIRECTED BY THE ARCHITECT AT NO COST TO THE OWNER.
3. ALL ELECTRICAL ROUGH-IN LOCATIONS IN OCCUPIED SPACES SHALL BE REVIEWED IN THE FIELD BY THE ARCHITECT PRIOR TO WIRING.
4. WHERE EXISTING OR SPECIAL CONDITIONS PREVENT THE INSTALLATION OF DEVICES AT THE ABOVE HEIGHTS, THE CONTRACTOR SHALL VERIFY HEIGHTS WITH THE ARCHITECT ON SITE.
5. THE CONTRACTOR SHALL VERIFY EXISTING AND FIELD CONDITIONS, INCLUDING BUT NOT LIMITED TO WORKBENCH, COUNTER, CABINET OR VANITY HEIGHTS, INCLUDING BACK AND SIDE SPLASHES, PRIOR TO INSTALLATION OF ELECTRICAL PANELS, CONTROL PANELS, OR DEVICE BOXES. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR REQUIRED MODIFICATIONS PRIOR TO COMMENCING INSTALLATION OF EQUIPMENT AND ASSOCIATED WORK.
6. PROVIDE CONTINUOUS BLOCKING CONCEALED WITHIN PARTITION AND WALL CONSTRUCTION AS REQUIRED TO PROPERLY SECURE AND ANCHOR ANY AND ALL WALL MOUNTED EQUIPMENT, FURNISHINGS, DEVICES, ETC.
7. INSTALL PANEL BOARDS SUCH THAT HIGHEST CIRCUIT BREAKER IS NO HIGHER THAN 6'-0" AFF.
8. WHERE SWITCHES, RECEPTACLES, THERMOSTATS, ETC. ARE INDICATED ON WALLS IN PROXIMITY TO ONE ANOTHER, ALIGN VERTICALLY UNLESS NOTED OTHERWISE.
9. WHERE SWITCHES, RECEPTACLES, THERMOSTATS, ETC. ARE LOCATED ADJACENT TO DOOR FRAMES, LOCATE THE NEAR FACE OF THE DEVICE BOX 6" FROM FINISH CASING OF DOOR FRAME, UNLESS OTHERWISE NOTED.
10. WHERE RECEPTACLES AND TELECOMMUNICATION DEVICE BOXES ARE SHOWN TOGETHER, SET DEVICE BOXES ALIGNED HORIZONTALLY AND A MINIMUM OF 6" APART.
11. WHERE RECEPTACLES ARE SHOWN ADJACENT TO ROOM CORNERS, LOCATE HORIZONTALLY 2'-0" FROM CORNER TO CENTER OF DEVICE BOX.
12. WHERE RECEPTACLES ARE SHOWN NEAR WALL CENTER, CENTER ON WALL.
13. SEE ENLARGED LAB PLANS AND INTERIOR ELEVATIONS FOR ADDITIONAL NOTES, INFORMATION AND REQUIREMENTS.
14. AT CASEWORK AND TABLES INIDCATED AS ACCESSIBLE, ENSURE MAX REACH RANGES IN COMPLIANCE WITH 2017 ACCESSIBILITY CODE OF NEW YORK STATE ARE MAINTAINED.

OWNER'S REQUIREMENTS - ADDITIONAL NOTES

1. MOUNTING HEIGHTS FOR SOME FIXTURES MAY CHANGE DEPENDING ON THE SPECIFIC FIXTURE SELECTED. ALL PROPOSED FIXTURES MUST BE REVIEWED AND APPROVED BY A CORNELL UNIVERSITY REPRESENTATIVE.
2. THESE ARE SPECIFIC HEIGHTS SELECTED WITHIN THE RANGES ALLOWED BY THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND ICC A117.1-2017.
3. COMPLETE COMPLIANCE WITH ALL ASPECTS OF 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND ICC A117.1-2017 IS REQUIRED OF ALL PROJECTS AND ACTIVITIES.
4. ALL OPERABLE HARDWARE, INCLUDING DOOR HARDWARE AND TOILET PARTITION HARDWARE, TO BE LEVER TYPE.
5. AVOID MOUNTING GRAB BARS ON TOILET PARTITIONS WHEREVER POSSIBLE.
6. WHERE A LOOSE TRASH RECEPTACLE IS PROVIDED, ENSURE THAT RECEPTACLE LOCATION DOES NOT INTERFERE WITH ANY REQUIRED MANEUVERING CLEARANCES.
7. DOOR THRESHOLDS SHALL BE FLUSH WHEREVER POSSIBLE. THRESHOLD HEIGHT SHALL NOT EXCEED 1/8".

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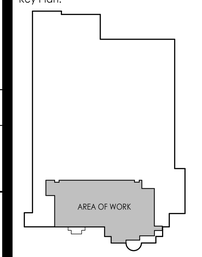
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Issued/Revision		YYYY.MM.DD

Permit/Seal



Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

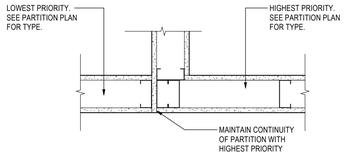
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GENERAL INFORMATION

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Revision:**0**
Drawing No. **A001**

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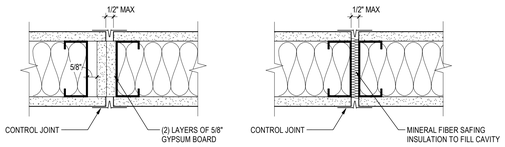
ORIGINAL SHEET - ARCH E1



WALL PRIORITY LEGEND	
TWO HOUR FIRE & SMOKE PARTITION	PRIORITY 1 - HIGHEST
TWO HOUR FIRE PARTITION	PRIORITY 2
TWO HOUR SHAFT WALL	
ONE HOUR FIRE & SMOKE PARTITION	PRIORITY 3
ONE HOUR FIRE PARTITION	PRIORITY 4
ACOUSTICAL, NON-RATED PARTITION	PRIORITY 5
NON-RATED PARTITION	PRIORITY 6 - LOWEST

D2 / A002 PARTITION - PRIORITY KEY

1 1/2" = 1'-0"

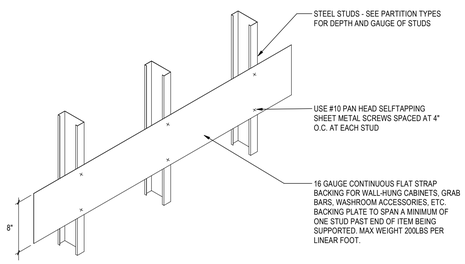


OPTION 1 **OPTION 2**

ONE-HOUR RATED PARTITION

C2 / A002 CONTROL JOINT AT RATED PARTITION

3" = 1'-0"



B2 / A002 DETAIL AT FLAT STRAP REINFORCING

1/4" = 1'-0"

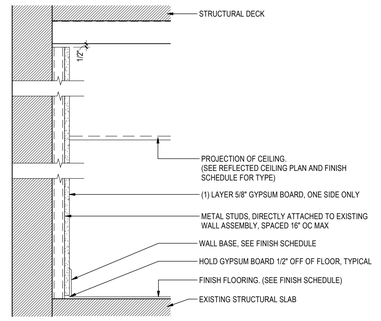
INTERIOR PARTITION SCHEDULE

TYPE	CONSTRUCTION DATA: OVERALL PARTITION DEPTH	CONSTRUCTION DATA: GWB THICKNESS	CONSTRUCTION DATA: FRAMING SIZE	TOP TERMINATION: STUDS TO STRUCTURE	TOP TERMINATION: GWB TO STRUCTURE	TOP TERMINATION: INSULATION TO STRUCTURE	TOP TERMINATION: MASONRY TO STRUCTURE	RATED PARTITIONS: SMOKE PARTITION	RATED PARTITIONS: FIRE RATING (HRS)	RATED PARTITIONS: FIRE TEST	ACOUSTICAL PERFORMANCE: SOUND INSULATION	ACOUSTICAL PERFORMANCE: STC RATING	ACOUSTICAL PERFORMANCE: STC TEST	NOTES
Group A - Material, Furring, Substrate														
A04	2 1/8"	5/8"	1 1/2"	●	●	-	-	-	0		-	0		
Group B - Material, Stud														
B08	3 1/8"	5/8"	2 1/2"	●	●	●	-	-	0		●	0		
B09	3 1/8"	5/8"	2 1/2"	●	●	-	-	-	0		-	0		
B13	4 1/4"	5/8"	3 5/8"	●	●	-	-	-	0		-	0		
B14	4 1/4"	5/8"	3 5/8"	●	●	●	-	-	0		●	0		
B20	6 5/8"	5/8"	6"	●	●	●	-	-	0		●	0		
Group C - Material, Stud, Material														
C04	4 7/8"	5/8"	3 5/8"	●	●	●	-		0		●	44	SA-870717	
C10	4 7/8"	5/8"	3 5/8"	●	●	-	-	-	0		-	40	RAL-TL11-125	
C15	4 7/8"	5/8"	3 5/8"	●	●	●	-	-	1	UL U419	●	44	SA-870717	FIRE STOP
C20	7 1/4"	5/8"	6"	●	●	●	-	-	0		●	46	RAL-TL11-125	
C25	7 1/4"	5/8"	6"	●	●	●	-	-	1	UL U419	●	46	SA-870717	FIRE STOP

GENERAL PARTITION NOTES

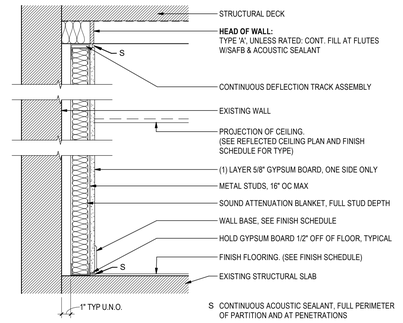
1. ALL PARTITIONS TO RUN FULL HEIGHT FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE UNLESS NOTED OTHERWISE. AT THE TOP OF THE PARTITIONS PROVIDE SLIP TRACK OR OTHER DEFLECTION ASSEMBLY AS REQUIRED TO ACCOUNT FOR DIFFERENTIAL MOVEMENT OF STRUCTURE AND PARTITION ASSEMBLY.
2. PROVIDE CONCEALED DIAGONAL BRACING AT PARTITIONS AND ABOVE DOORS AS REQUIRED TO PREVENT LATERAL MOTION OF PARTITION ASSEMBLIES.
3. AT ALL PARTITIONS WITH SOUND ATTENUATION BLANKETS PROVIDE ACOUSTICAL SEALANT AT ALL PENETRATIONS AND FULL PERIMETER BOTH SIDES OF PARTITION.
4. PROVIDE MIN. 8" HIGH 16 GAUGE SHEET METAL BLOCKING BEHIND ANY AND ALL MOUNTED EQUIPMENT, CABINETRY AND FURNISHINGS AS REQUIRED FOR PROPER AND SECURE ANCHORAGE OF WALL MOUNTED ITEMS. BLOCKING TO SPAN CONTINUOUSLY FROM STUD TO STUD BEHIND WALL MOUNTED ITEMS AND BE PROVIDED AT ALL ANCHORAGE LOCATIONS.
5. PROVIDE DOUBLE STUDS AT JAMBS OF ALL DOORS, WINDOWS AND SIMILAR OPENINGS.
6. AT DRYWALL PARTITIONS ASSMEBLIES PROVIDE CONTROL JOINTS WITH GYPSUM BOARD MANUFACTURER'S RECOMMENDED TAPABLE JOINT TRIM 30'-0" ON CENTER. WHERE JOINTS ARE VISIBLE COORDINATE EXACT LOCATION WITH ARCHITECT.
7. PROVIDE FIREBLOCKING IN CONCEALED SPACES OF STUD WALL AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS VERTICALLY AT CEILING AND FLOOR LEVELS AND HORIZONTALLY AT INTERVALS NOT EXCEEDING 10'-0".
8. SEE PARTITION LAYOUT DIAGRAMS, FLOOR PLANS AND DETAILS FOR ADDITIONAL WALL TYPE AND WALL LAYOUT GUIDELINES.

GROUP A - FULL HEIGHT, DIRECT FURRING WALL



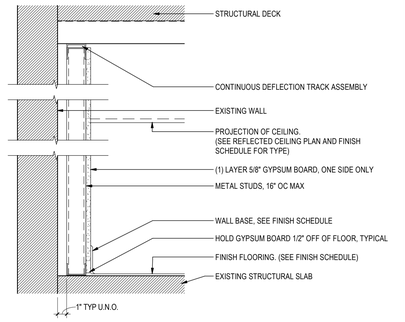
A04	1 1/2" FURRING WALL

GROUP B - FULL HEIGHT ACOUSTIC FURRING WALL



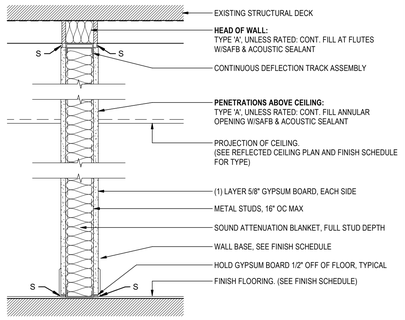
B08	2 1/2" STUD W/ ACOUSTICAL INSULATION
B14	3 5/8" STUD W/ ACOUSTICAL INSULATION
B20	6" STUD W/ ACOUSTICAL INSULATION

GROUP B - FULL HEIGHT FREESTANDING FURRING WALL



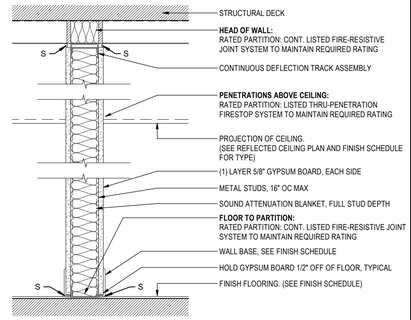
B09	2 1/2" STUD
B13	3 5/8" STUD

GROUP C - FULL HEIGHT ACOUSTIC STUD WALL



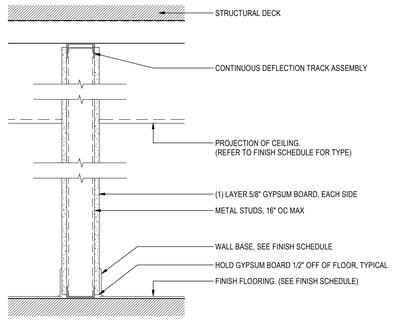
C04	3 5/8" STUD W/ ACOUSTICAL INSULATION	44 STC
C20	6" STUD W/ ACOUSTICAL INSULATION	46 STC

GROUP C - FULL HEIGHT FIRE-RATED STUD WALL



C15	3 5/8" STUD, 1-HOUR FIRE RATED, UL DESIGN U419	44 STC
C25	6" STUD, 1-HOUR FIRE RATED, UL DESIGN U419	46 STC

GROUP C - FULL HEIGHT STUD WALL



C10	3-5/8" STUD

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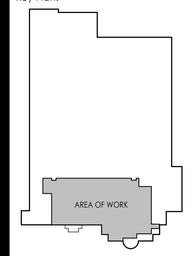
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Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

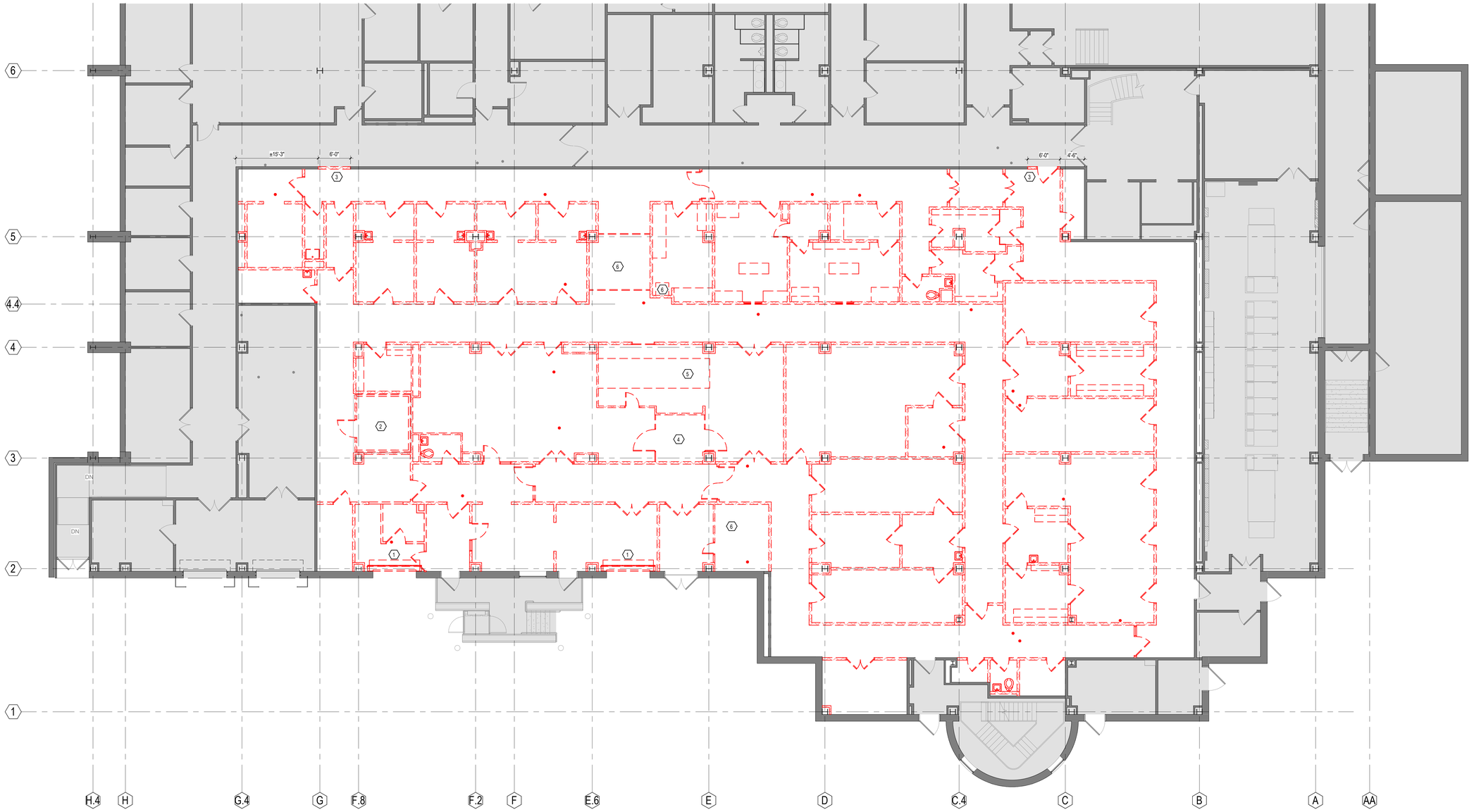
Project No.:225306010

INTERIOR PARTITION TYPES

Scale: As indicated
Revision: **0**
Drawing No. **A002**

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ORIGINAL SHEET - ARCH E1



B1 AD101 FIRST FLOOR REMOVALS PLAN

1/8" = 1'-0"

REMOVAL PLAN LEGEND

- AREA NOT IN SCOPE
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED

(#) REMOVAL PLAN KEYED NOTES

1. REMOVE EXISTING OVERHEAD DOOR ASSEMBLY, INCLUDING BUT NOT LIMITED TO COILING DOOR, SHROUD, GUIDE RAILS, MOTOR, ELECTRICAL COMPONENTS, AND DOCK SEAL.
2. REMOVE EXISTING COLD ROOM ASSEMBLY COMPLETE AND PROPERLY DISPOSE OF REGRIGERANT. COORDINATE REMOVALS WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. DOCUMENT TYPE AND QUANTITY OF REFRIGERANT RECOVERED AND DISPOSED OF. SUBMIT DOCUMENTATION OF TYPE AND QUANTITY OF REFRIGERANT REMOVED TO CORNELL ENVIRONMENTAL HEALTH AND SAFETY.
3. REMOVE PORTION OF THE EXISTING WALL ASSEMBLY TO THE MINIMUM EXTENT REQUIRED FOR NEW OPENING, SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
4. REMOVE EXISTING CAGE AND RACK WASHER ASSEMBLY COMPLETE. COORDINATE REMOVALS WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
5. REMOVE EXISTING CAGE AND BOTTLE WASHER ASSEMBLY COMPLETE. COORDINATE REMOVALS WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
6. REMOVE EXISTING STEAM STERLIZER ASSEMBLY COMPLETE. COORDINATE REMOVALS WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.

REMOVAL PLAN GENERAL NOTES

A. COORDINATE EXACT EXTENT OF ALL REMOVALS AND MODIFICATIONS WITH REQUIREMENTS OF NEW CONSTRUCTION. DIMENSIONED REMOVALS ARE FOR GENERAL INFORMATION PURPOSES ONLY. REFER TO PLANS AND DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

B. ALL REMAINING WALL, FLOOR AND CEILING SURFACES DAMAGED DURING REMOVALS ARE TO BE REPAIRED SUCH THAT REMAINING SURFACES ARE SMOOTH AND FLUSH WITH SURROUNDING MATERIALS AND READY FOR APPLICATION OF REQUIRED FINISHES. PROVIDE NEW MATERIALS TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES AS REQUIRED TO MATCH EXISTING CONSTRUCTION.

C. IN ALL SPACES DESIGNATED FOR WORK REMOVE ANY AND ALL FINISH FLOORING SYSTEMS BACK TO ORIGINAL SUBSTRATES UNLESS OTHERWISE NOTED. PROVIDE FLOORING FILL MATERIAL COMPATIBLE WITH SUBSTRATES AND FINISHES AS REQUIRED TO FILL AND LEVEL ALL VOIDS AND/OR DEPRESSIONS THAT OCCUR AT SUBSTRATES AND AT REMOVALS OF WALLS, MILLWORK, PARTITIONS AND ANY AND ALL OTHER CONSTRUCTION AS REQUIRED TO PROPERLY PREPARE SUBSTRATES AND SURFACES TO RECEIVE NEW FLOORING FINISH SYSTEMS.

D. IN ALL SPACES DESIGNATED FOR WORK REMOVE ANY AND ALL CASWORK, FURNITURE. FURNISHINGS, AND OTHER WALL MOUNTED ACCESSORIES INCLUDED ASSOCIATED PLUMBING, MECHANICAL, AND ELECTRICAL COMPONENTS. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

E. CONTRACTOR IS RESPONSIBLE TO MEET ALL OSHA REGULATIONS AND BUILDING CODE REQUIREMENTS FOR THE REMOVAL OF EXISTING BUILDINGS, SELECTIVE DEMOLITION OF BUILDING COMPONENTS, AND CONSTRUCTION WORK.

F. SEE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL REMOVALS AND MODIFICATIONS TO EXISTING CONSTRUCTION AND SYSTEMS.

G. SEE HAZARDOUS MATERIALS DRAWINGS FOR ANY REQUIRED HAZARDOUS MATERIALS ABATEMENT.

H. PROVIDE TEMPORARY PROTECTION AT ALL OPENINGS TO EXISTING BUILDING AND ADJACENT SPACES. THIS INCLUDES BUT IS NOT LIMITED TO: FIRE SEPARATIONS, SOUND ATTENUATION, DUST AND DEBRIS BARRIERS. ALL WORK CREATING DUST AND/OR DEBRIS SHALL BE CONTAINED AND SEPARATED FROM EXISTING SPACES, SYSTEMS, AND OPERATIONS.

I. PROTECT EXISTING FINSHES, BASE, TRIM, AND EQUIPMENT TO REMAIN.

J. COORDINATE ANY SALVAGE WITH OWNER.

K. AFTER REMOVAL OF CEILING IS COMPLETE, REVIEW AND VERIFY ANY AND ALL PENTRATIONS THROUGH SECOND FLOOR SLAB, IN WORK AREA, ARE SEALED WITH PROPER FIRE-RATED ASSEMBLY. ANY UNSEALED PENETRATATIONS SHALL BE BROUGHT UP TO OWNER'S ATTENTION IMMEDIATELY. PROVIDE UL RATED ASSEMBLY AS REQUIRED TO BRING FLOOR ASSEMBLY INTO CODE COMPLIANCE.

L. PROTECT EXISTING BUILDING FROM DAMAGE DUE TO CONSTRUCTION ACTIVITIES. ANY AREAS AND OR BUILDING COMPONENTS DAMAGED SHALL BE REPORTED TO OWNER AND RESTORED TO LIKE NEW CONDITION.

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REGISTERED ARCHITECT MICHAEL STEVEN [illegible] 041042 STATE OF NEW YORK

Key Plan:

Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

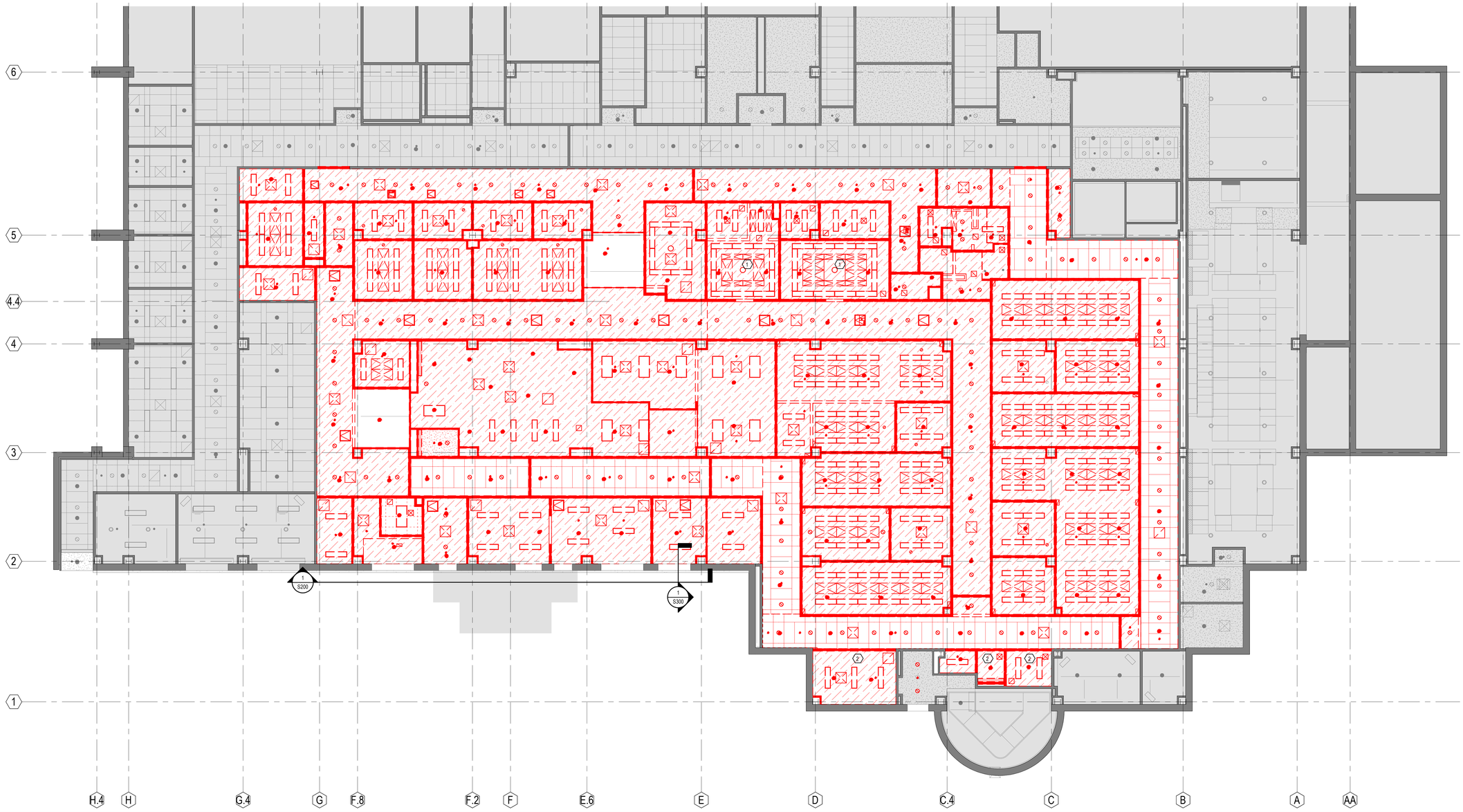
Project No.:225306010

FIRST FLOOR REMOVALS PLAN

Scale: As indicated
Revision: 0
Drawing No. **AD101**

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ORIGINAL SHEET - ARCH E1



B1 AD121 FIRST FLOOR REFLECTED CEILING PLAN REMOVALS

1/8" = 1'-0"

CEILING REMOVAL PLAN LEGEND

- AREA NOT IN SCOPE
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED
- EXISTING SUSPENDED ACOUSTICAL CEILING SYSTEM TO BE REMOVED
- EXISTING GYPSUM BOARD CEILING SYSTEM TO BE REMOVED

(Z) CEILING REMOVAL PLAN KEYED NOTES

1. REMOVE EXISTING ABOVE CEILING STRUCTURAL SUPPORTS FOR SURGICAL LIGHT / CEILING MOUNTED EQUIPMENT.
2. AFTER REMOVAL WORK IN THIS AREA IS COMPLETE, REVIEW CONDITION OF BOTTOM OF SHAFTWAY WITH OWNER, AHJ, ENGINEER, AND ARCHITECT IN THE FIELD TO CONFIRM COMPLIANCE WITH CODE REQUIREMENTS.

CEILING REMOVAL PLAN GENERAL NOTES

A. COORDINATE EXACT EXTENT OF ALL REMOVALS AND MODIFICATIONS WITH REQUIREMENTS OF NEW CONSTRUCTION. DIMENSIONED REMOVALS ARE FOR GENERAL INFORMATION PURPOSES ONLY. REFER TO PLANS AND DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

B. ALL REMAINING WALL, FLOOR AND CEILING SURFACES DAMAGED DURING REMOVALS ARE TO BE REPAIRED SUCH THAT REMAINING SURFACES ARE SMOOTH AND FLUSH WITH SURROUNDING MATERIALS AND READY FOR APPLICATION OF REQUIRED FINISHES. PROVIDE NEW MATERIALS TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES AS REQUIRED TO MATCH EXISTING CONSTRUCTION.

C. IN ALL SPACES DESIGNATED FOR WORK REMOVE ANY AND ALL CEILING AND SOFFIT SYSTEMS COMPLETELY, UNLESS OTHERWISE NOTED.

D. IN ALL SPACES DESIGNATED FOR WORK REMOVE ANY AND ALL CEILING MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO LIGHTING, LIGHTING DEVICES, SPRINKLERS, DIFFUSERS, ACCESS PANELS, AND FIRE ALARM DEVICES. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL REMOVALS AND MODIFICATIONS TO EXISTING CONSTRUCTION AND SYSTEMS.

E. CONTRACTOR IS RESPONSIBLE TO MEET ALL OSHA REGULATIONS AND BUILDING CODE REQUIREMENTS FOR THE REMOVAL OF EXISTING BUILDINGS, SELECTIVE DEMOLITION OF BUILDING COMPONENTS, AND CONSTRUCTION WORK.

F. SEE HAZARDOUS MATERIALS DRAWINGS FOR ANY REQUIRED HAZARDOUS MATERIALS ABATEMENT.

G. PROVIDE TEMPORARY PROTECTION AT ALL OPENINGS TO EXISTING BUILDING AND ADJACENT SPACES. THIS INCLUDES BUT IS NOT LIMITED TO: FIRE SEPARATIONS, SOUND ATTENUATION, DUST AND DEBRIS BARRIERS. ALL WORK CREATING DUST AND/OR DEBRIS SHALL BE CONTAINED AND SEPARATED FROM EXISTING SPACES, SYSTEMS, AND OPERATIONS.

H. PROTECT EXISTING FINSHES TO REMAIN.

I. PROTECT EXISTING BUILDING FROM DAMAGE DUE TO CONSTRUCTION ACTIVITIES. ANY AREAS AND OR BUILDING COMPONENTS DAMAGED SHALL BE REPORTED TO OWNER AND RESTORED TO 'LIKE NEW' CONDITION.

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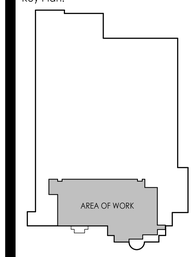
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Issued/Revision		YYYY.MM.DD

Permit/Seal



Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

FIRST FLOOR REFLECTED CEILING REMOVALS PLAN

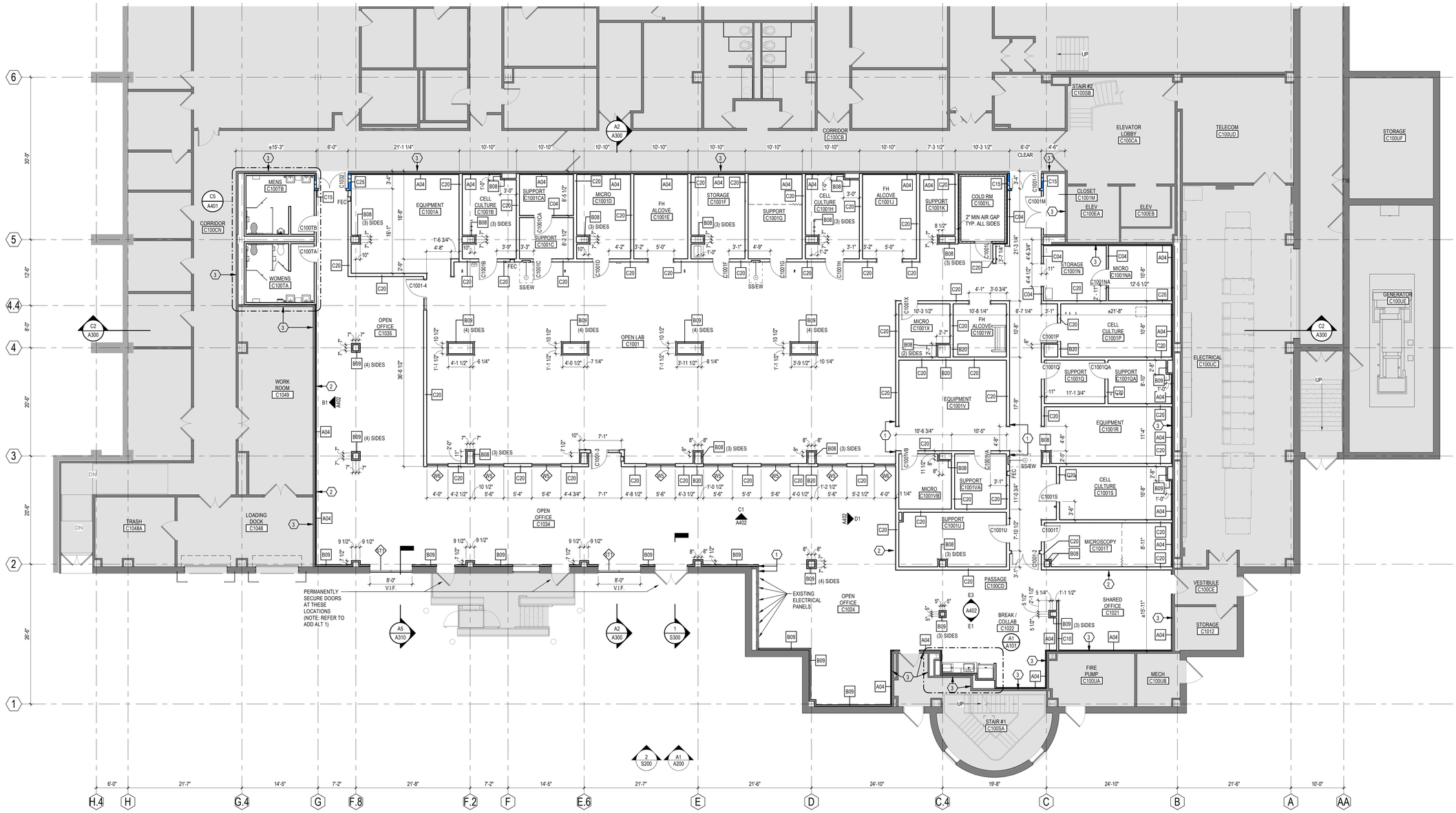
Scale: As indicated

Revision: **0**

Drawing No. **AD121**

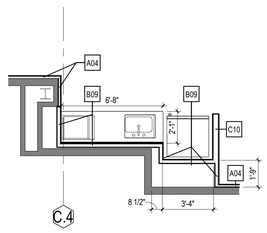
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ORIGINAL SHEET - ARCH E1



B1 A101 FIRST FLOOR PLAN

1/8" = 1'-0"



A1 A101 PLAN DETAIL

1/4" = 1'-0"

PLAN LEGEND

- NEW PARTITION
- EXISTING PARTITION TO REMAIN
- WINDOW OR LOUVER
- WINDOW WALL
- PARTIAL HEIGHT PARTITION
- RECESSED ITEM
- 1 HOUR RESISTIVE RATED CONSTRUCTION
- CORNER GUARD (CG)
- EXISTING DOOR TO REMAIN
- NEW DOUBLE DOOR
- NEW DOOR
- INDICATES ACCESSIBLE TOILET FIXTURE

FLOOR PLAN KEYNOTES

1. ALIGN FINISHED FACES
2. PROVIDE IN-WALL BLOCKING STARTING AT 3'-0" AFF, FULL EXTENTS OF WALL AT MB-1 LOCATIONS; REFER TO FINISH PLAN & FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
3. INFILL FLUTES ABOVE EXISTING MASONRY WALL, FULL EXTENT OF INDICATED WALLS, WITH UL LISTED FIRESTOPPING ASSEMBLY AS REQUIRED TO BRING WALL INTO FIRE-RATING COMPLIANCE. PROVIDE PENETRATION FIRESTOPPING AT ALL EXISTING NONCOMPLIANT CONDITIONS.

FLOOR PLAN GENERAL NOTES

A. EACH BIDDER SHALL VISIT THE SITE AND EXAMINE THE SITE TO ENSURE THEIR KNOWLEDGE OF THE CONDITIONS AFFECTING THE WORK.

B. DETAILS AND SECTIONS ON THE DRAWINGS ARE SHOWN AT SPECIFIC LOCATIONS. DETAILS NOTED "TYPICAL" OR "TYP" IMPLY THE SAME CONDITION IS REPEATED AT OTHER LOCATIONS. DETAILS NOTED "SIMILAR" OR "SIM" IMPLY THE CONDITION IS TREATED SIMILARLY IN OTHER LOCATIONS BUT WITH SLIGHT MODIFICATIONS TO BE MADE BY CONTRACTOR TO ACCOMMODATE MINOR VARIATIONS.

C. SIDES OF DOOR OPENINGS TO BE A MINIMUM OF 6" FROM NEAREST PERPENDICULAR PARTITION, UON.

D. REVIEW LAYOUTS FOR PARTITIONS IN FIELD WITH THE ARCHITECT/DESIGNER PRIOR TO START OF CONSTRUCTION.

E. ALIGN CENTERLINES OF FIRE EXTINGUISHER CABINETS AND MEP/FP DEVICES ON WALLS IN THE SAME LOCATION.

F. WHERE NEW PARTITIONS ABUT THE END SURFACE OF EXISTING PARTITIONS, REMOVE EXISTING CORNER BEAD AND PROVIDE SMOOTH FINISH AT INTERSECTION.

G. PATCH PARTITIONS TO REMAIN WHERE WALL RECEPTACLES, FACE PLATES, WALL BASE, ETC. ARE REMOVED.

H. EXISTING FLOORS, PARTITIONS, CEILINGS, INTERIOR COLUMNS, AND CORRIDOR WALLS TO BE PATCHED AND REPAIRED AS NEEDED TO MAINTAIN ORIGINAL ACOUSTICAL AND RATED FIRE/SMOKE DESIGN INTENT. PENETRATIONS AND JOINTS ARE TO BE SEALED TO MAINTAIN FIRE/SMOKE RATING AND ACOUSTICAL RATING.

I. EXISTING WALLS, COLUMN ENCLOSURES, SOFFITS ETC. TO REMAIN ARE TO BE PATCHED AND REPAIRED TO MEET REQUIREMENTS OF NEW SURFACES UON.

J. DOOR NUMBERS TO CORRESPOND TO ROOM NUMBERS, UON.

K. DIMENSIONS:
1. ALL DIMENSIONS ARE TO FINISH FACE AT EXISTING CONSTRUCTION, TO FINISH FACE OF MASONRY CONSTRUCTION AND TO FACE OF FRAMING AT NEW STUD FRAMED GYPSUM WALL BOARD PARTITIONS, UNLESS OTHERWISE NOTED.
2. DRAWINGS ARE NOT TO BE SCALED; VERIFY ANY MISSING OR CONFLICTING WRITTEN DIMENSIONS WITH THE ARCHITECT/DESIGNER PRIOR TO CONSTRUCTION.
3. NOTIFY ARCHITECT/DESIGNER OF CONDITIONS WHERE CLEAR OR CRITICAL DIMENSIONS ARE DESIGNATED BUT CANNOT BE MET OR WHERE CORRIDOR/AISLE WIDTH CANNOT MEET THE MINIMUM REQUIREMENTS (3'-8" UON).
4. MAINTAIN FINISH FLOOR BASE ELEVATION THROUGHOUT THE CONTRACT AREA SUCH THAT DIMENSIONS INDICATED AS ABOVE FINISH FLOOR ARE AT THE SAME ELEVATION.

L. PROVIDE FIRE EXTINGUISHERS (WITH CABINETS) IN QUANTITIES AND LOCATIONS ON DWGS, BUT IN NO CASE LESS THAN AMOUNT REQUIRED BY CODE. REVIEW FINAL LOCATIONS WITH THE ARCHITECT/DESIGNER PRIOR TO START OF CONSTRUCTION. PARTITION DEPTH AT FIRE EXTINGUISHER CABINET LOCATIONS TO ACCOMMODATE FULL CONCEALMENT OF RECESSED CABINETS; COORDINATE WITH FEC SPEC.

M. SEE SHEET A-002 FOR PARTITION TYPES.

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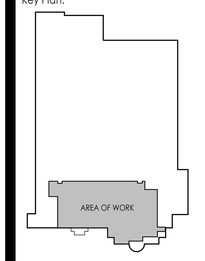
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Key Plan:



Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

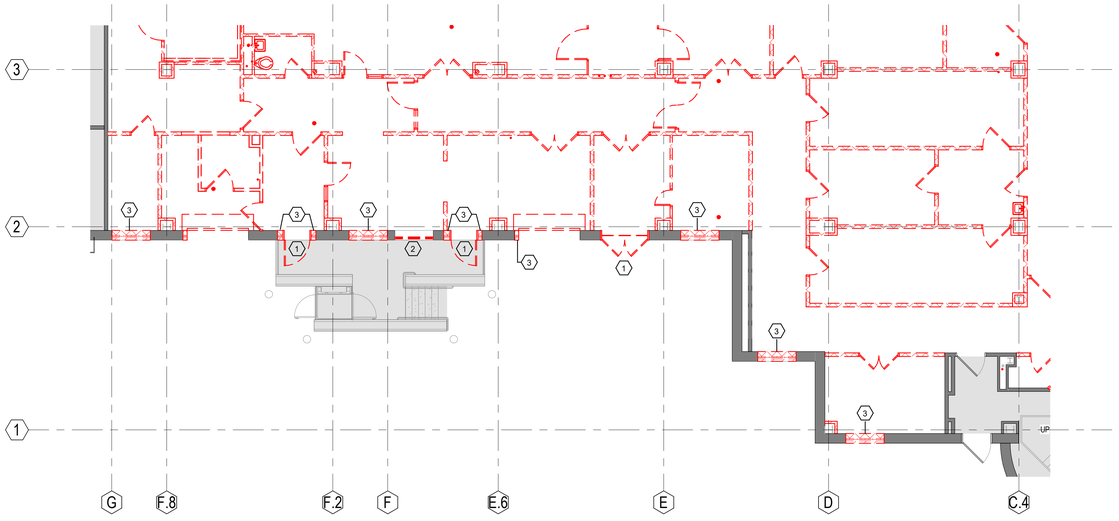
SUCF#: 191030

Project No.:225306010

FIRST FLOOR PLAN

Scale: As indicated
Revision: 0
Drawing No. **A101**

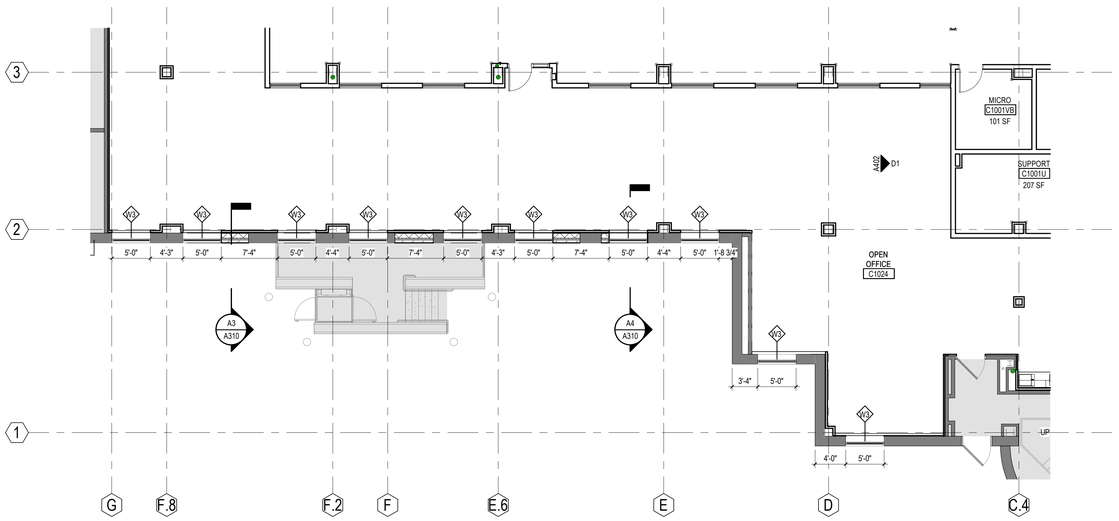
ORIGINAL SHEET - ARCH E1



D1 A101A

FIRST FLOOR REMOVALS PLAN - ADD ALTERNATE #1

1/8" = 1'-0"



B1 A101A

FIRST FLOOR PLAN - ADD ALTERNATE #1

1/8" = 1'-0"

REMOVAL PLAN LEGEND

- AREA NOT IN SCOPE
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED

REMOVAL PLAN KEYED NOTES

1. REMOVE EXISTING EXTERIOR DOOR, HARDWARE, AND FRAME ASSEMBLY.
2. REMOVE EXISTING WINDOW ASSEMBLY.
3. REMOVE PORTION OF EXISTING EXTERIOR WALL ASSEMBLY AS REQUIRED FOR NEW WINDOW, SEE FLOOR PLAN AND EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
4. REMOVE PORTION OF THE EXISTING WALL ASSEMBLY TO THE MINIMUM EXTENT REQUIRED FOR NEW OPENING, SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.

REMOVAL PLAN GENERAL NOTES

A. COORDINATE EXACT EXTENT OF ALL REMOVALS AND MODIFICATIONS WITH REQUIREMENTS OF NEW CONSTRUCTION. DIMENSIONED REMOVALS ARE FOR GENERAL INFORMATION PURPOSES ONLY. REFER TO PLANS AND DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

B. ALL REMAINING WALL, FLOOR AND CEILING SURFACES DAMAGED DURING REMOVALS ARE TO BE REPAIRED SUCH THAT REMAINING SURFACES ARE SMOOTH AND FLUSH WITH SURROUNDING MATERIALS AND READY FOR APPLICATION OF REQUIRED FINISHES. PROVIDE NEW MATERIALS TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES AS REQUIRED TO MATCH EXISTING CONSTRUCTION.

C. IN ALL SPACES DESIGNATED FOR WORK REMOVE ANY AND ALL FINISH FLOORING SYSTEMS BACK TO ORIGINAL SUBSTRATES UNLESS OTHERWISE NOTED. PROVIDE FLOORING FILL MATERIAL COMPATIBLE WITH SUBSTRATES AND FINISHES AS REQUIRED TO FILL AND LEVEL ALL VOIDS AND/OR DEPRESSIONS THAT OCCUR AT SUBSTRATES AND AT REMOVALS OF WALLS, MILLWORK, PARTITIONS AND ANY AND ALL OTHER CONSTRUCTION AS REQUIRED TO PROPERLY PREPARE SUBSTRATES AND SURFACES TO RECEIVE NEW FLOORING FINISH SYSTEMS.

D. IN ALL SPACES DESIGNATED FOR WORK REMOVE ANY AND ALL CASWORK, FURNITURE, FURNISHINGS, AND OTHER WALL MOUNTED ACCESSORIES INCLUDED ASSOCIATED PLUMBING, MECHANICAL, AND ELECTRICAL COMPONENTS. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

E. CONTRACTOR IS RESPONSIBLE TO MEET ALL OSHA REGULATIONS AND BUILDING CODE REQUIREMENTS FOR THE REMOVAL OF EXISTING BUILDINGS, SELECTIVE DEMOLITION OF BUILDING COMPONENTS, AND CONSTRUCTION WORK.

F. SEE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL REMOVALS AND MODIFICATIONS TO EXISTING CONSTRUCTION AND SYSTEMS.

G. SEE HAZARDOUS MATERIALS DRAWINGS FOR ANY REQUIRED HAZARDOUS MATERIALS ABATEMENT.

H. PROVIDE TEMPORARY PROTECTION AT ALL OPENINGS TO EXISTING BUILDING AND ADJACENT SPACES. THIS INCLUDES BUT IS NOT LIMITED TO: FIRE SEPARATIONS, SOUND ATTENUATION, DUST AND DEBRIS BARRIERS. ALL WORK CREATING DUST AND/OR DEBRIS SHALL BE CONTAINED AND SEPARATED FROM EXISTING SPACES, SYSTEMS, AND OPERATIONS.

I. PROTECT EXISTING FINSHES, BASE, TRIM, AND EQUIPMENT TO REMAIN.

PLAN LEGEND

- NEW PARTITION
- EXISTING PARTITION TO REMAIN
- WINDOW OR LOUVER
- EXISTING DOOR TO REMAIN
- NEW DOOR

FLOOR PLAN KEYNOTES

1. ALIGN FINISHED FACES
2. PROVIDE IN-WALL BLOCKING STARTING AT 3'-0" AFF, FULL EXTENTS OF WALL AT MB-1 LOCATIONS; REFER TO FINISH PLAN & FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
3. INFILL PORTIONS OF EXISTING EXTERIOR WALL ASSEMBLY WHERE WINDOW, DOOR, OR OVERHEAD DOOR ASSEMBLY WAS REMOVED. MATCH EXISTING ADJACENT WALL ASSEMBLY, SEE EXTERIOR ELEVATION AND WALL SECTIONS FOR ADDITIONAL INFORMATION.
4. INFILL FLUTES ABOVE EXISTING MASONRY WALL, FULL EXTENT OF INDICATED WALLS, WITH UL LISTED FIRESTOPPING ASSEMBLY AS REQUIRED TO BRING WALL INTO FIRE-RATING COMPLIANCE. PROVIDE PENETRATION FIRESTOPPING AT ALL EXISTING NONCOMPLIANT CONDITIONS.

FLOOR PLAN GENERAL NOTES

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2. DRAWINGS ARE NOT TO BE SCALED; VERIFY ANY MISSING OR CONFLICTING WRITTEN DIMENSIONS WITH THE ARCHITECT/DESIGNER PRIOR TO CONSTRUCTION.
3. NOTIFY ARCHITECT/DESIGNER OF CONDITIONS WHERE CLEAR OR CRITICAL DIMENSIONS ARE DESIGNATED BUT CANNOT BE MET.

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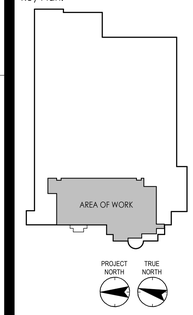
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Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

FIRST FLOOR PLAN - ADD ALTERNATE #1

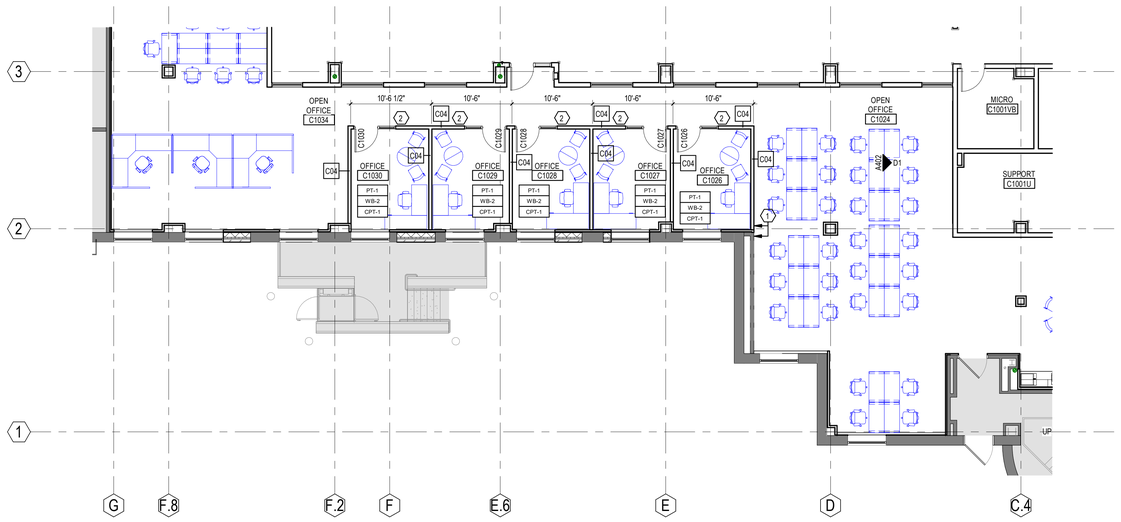
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Revision: **0**

Drawing No. **A101A**

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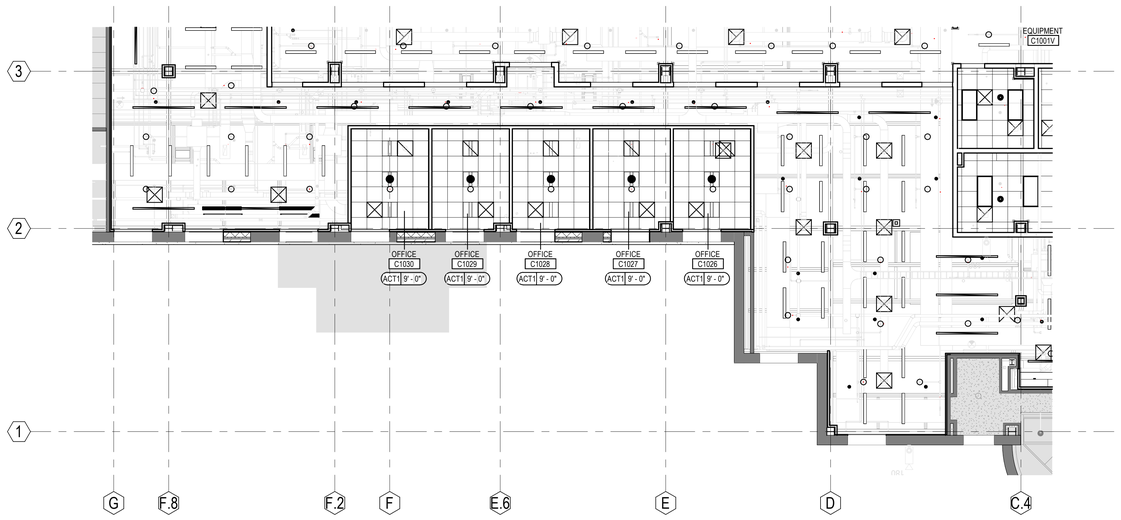
ORIGINAL SHEET - ARCH E1



D1 A101B

FIRST FLOOR PLAN - ADD ALTERNATE #2

1/8" = 1'-0"



B1 A101B

FIRST FLOOR RCP - ADD ALTERNATE #2

1/8" = 1'-0"

DOOR SCHEDULE - ADD ALTERNATE #2

NO.	ROOM NAME	ROOM NO.	DOOR WIDTH	DOOR HEIGHT	DOOR THICK	DOOR NO. OF PANELS	DOOR PANEL 1 WIDTH	DOOR PANEL 2 WIDTH	DOOR TYPE	DOOR MAT'L	DOOR FIN	DOOR GLAZ	FRAME TYPE	FRAME MAT'L	FRAME FIN	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	FIRE LABEL	HDWR SET	NO.	DOOR COMMENTS
FIRST FLOOR																						
C1026	OPEN OFFICE	C1034	3'-0"	7'-0"	1 3/4"	1	3'-0"	0"	HG	HM	PNT	1/4" TG	3	HM	PNT	A4.B3/A600	A6.B2/A600		-		C1026	
C1027	OPEN OFFICE	C1034	3'-0"	7'-0"	1 3/4"	1	3'-0"	0"	HG	HM	PNT	1/4" TG	3	HM	PNT	A4.B3/A600	A6.B2/A600		-		C1027	
C1028	OPEN OFFICE	C1034	3'-0"	7'-0"	1 3/4"	1	3'-0"	0"	HG	HM	PNT	1/4" TG	3	HM	PNT	A4.B3/A600	A6.B2/A600		-		C1028	
C1029	OPEN OFFICE	C1034	3'-0"	7'-0"	1 3/4"	1	3'-0"	0"	HG	HM	PNT	1/4" TG	3	HM	PNT	A4.B3/A600	A6.B2/A600		-		C1029	
C1030	OPEN OFFICE	C1034	3'-0"	7'-0"	1 3/4"	1	3'-0"	0"	HG	HM	PNT	1/4" TG	3	HM	PNT	A4.B3/A600	A6.B2/A600		-		C1030	

PLAN LEGEND

- NEW PARTITION
- EXISTING PARTITION TO REMAIN
- WINDOW OR LOUVER
- EXISTING DOOR TO REMAIN
- NEW DOOR

FLOOR PLAN KEYNOTES

1. ALIGN FINISHED FACES.
2. ROOM SIGN, TYPE S1, SEE A181 FOR ADDITIONAL INFORMATION.

FLOOR PLAN GENERAL NOTES

A. EACH BIDDER SHALL VISIT THE SITE AND EXAMINE THE SITE TO ENSURE THEIR KNOWLEDGE OF THE CONDITIONS AFFECTING THE WORK.

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3. NOTIFY ARCHITECT/DESIGNER OF CONDITIONS WHERE CLEAR OR CRITICAL DIMENSIONS ARE DESIGNATED BUT CANNOT BE MET.

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REGISTERED ARCHITECT MICHAEL STEVEN [illegible] 041042 STATE OF NEW YORK

Key Plan:

Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

FIRST FLOOR PLAN - ADD ALTERNATE #2

Scale: As indicated
Revision:**0**
Drawing No. **A101B**

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ORIGINAL SHEET - ARCH E1



B1 / A121 FIRST FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

- 1 x 4 SUSPENDED CEILING GRID SYSTEM
- 2 x 2 SUSPENDED CEILING GRID SYSTEM
- 2 x 4 SUSPENDED CEILING GRID SYSTEM
- GYPSUM BOARD CEILING/SOFFIT
- CEILING TYPE KEY (ACT1 10' - 0"): CEILING TYPE / CEILING HEIGHT AFF
- 4' LED STRIP
- 1' x 4' LED
- 2' x 2' LED
- 2' x 4' LED
- EXIT SIGN - CEILING MOUNTED ARROWS INDICATE DIRECTION
- EXIT SIGN - END MOUNTED ARROWS INDICATE DIRECTION
- EXIT SIGN - FACE MOUNTED ARROWS INDICATE DIRECTION
- UPRIGHT SPRINKLER HEAD
- CONCEALED SPRINKLER HEAD
- OCCUPANCY SENSOR CEILING MOUNTED
- SPEAKER
- SMOKE DETECTOR
- HEAT DETECTOR
- DOWNLIGHT
- DOWNLIGHT, WALL WASHER
- EMERGENCY LIGHT
- SUPPLY DIFFUSER, LINEAR
- WINDOW TREATMENT CEILING MOUNTED
- WIRE TRAY
- SUPPLY DIFFUSER
- RETURN GRILLE
- EXHAUST GRILLE
- JUNCTION BOX
- OUTLET - DUPLEX CEILING MOUNTED
- OUTLET - TELDATA FLOOR OR CEILING MOUNTED
- POWER POLE # INDICATES QTY OF POWERED WORKSTATION (PP1)

REFLECTED CEILING KEYNOTES (#)

1. BOTTOM OF MECHANICAL SHAFTWAY SHALL BE UPGRADED TO 2-HOUR FIRE-RESISTANCE RATING IN COMPLIANCE WITH SECTION 713.11 OF THE 2025 BUILDING CODE OF NEW YORK STATE. ALL PENETRATIONS AT THE BOTTOM OF SHAFTWAY SHALL BE SEALED WITH UL RATED FIRESTOP ASSEMBLY COMPLYING WITH ASTM E814 AND UL 1479 REQUIREMENTS PER SECTION 714.5.1 OF THE 2025 BUILDING CODE OF NEW YORK STATE.

REFLECTED CEILING PLAN NOTES

A. MATERIALS AND PRODUCTS, CALLED OUT TO BE INSTALLED ON THE DRAWINGS ARE TO BE NEW.

B. DOWN LIGHTS, WALL WASHERS, SMOKE DETECTORS, EXIT SIGNS, AND OTHER CEILING MOUNTED DEVICES TO BE CENTERED IN CEILING TILES AND GWB SOFFITS, UON.

C. SPRINKLER HEADS TO BE CENTERED IN CEILING TILES AND GWB SOFFITS IN BOTH DIRECTIONS UON.

D. DIMENSIONS OF FIXTURES, DEVICES, ETC. ARE TO CENTERLINE OF FIXTURE, UON WHERE ITEMS ARE IN LINE, CENTERLINE OF ITEMS OR GROUP OF ITEMS TO ALIGN, UON.

E. ACT CEILING TO BE CENTERED IN ROOMS, UON REFER TO CEILING LAYOUT FOR GRID LINE OR TILE TO BE CENTERED.

F. SPRINKLER HEADS SHOWN FOR ARCHITECTURAL DESIGN INTENT ONLY, NOT FOR CODE DISTRIBUTION. SEE FIRE PROTECTION CONTRACT DRAWINGS AND APPROVED SHOP DRAWINGS FOR DISTRIBUTION AND HYDRAULIC CALCULATIONS.

G. ACT & INTERIOR DROPPED GWB CEILINGS TO BE @ 9'-0", AFF UON. NEW GWB CEILINGS TO BE PAINTED PT-1. VERIFY THIS DIMENSION WITH THE PERIMETER WINDOW HEADER CONDITION AND REVIEW WITH THE ARCHITECT/DESIGNER PRIOR TO START OF CONSTRUCTION.

H. CEILINGS TO BE ACT- 1, UON.

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SUCF#: 191030

Project No.:225306010

FIRST FLOOR REFLECTED CEILING PLAN

Scale: As indicated

Revision: **0**

Drawing No. **A121**

xRef location in Project Information
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ORIGINAL SHEET - ARCH E1



B1 / A141 FIRST FLOOR FINISH PLAN

1/8" = 1'-0"

FINISH SCHEDULE

TYPE MARK	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR	COMMENTS	REP CONTACT INFO
CEILING						
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	CALLA STANDARD #2825, 9/16" SQUARE TEGULAR GRID 24"x24"x3/4"	WHITE		Gigi Fontaine <BFontaine@armstrongceilings.com>
CORNER GUARDS & EDGE PROFILES						
CG-1	CORNER GUARDS	CONSTRUCTION SPECIALTIES	ACROVYN CORNER GUARD, FSC-25 WITH INTEGRAL BASE, FROM FLOOR UP TO 8'-0" AFF	WHITE		N/A
CG-2	CORNER GUARDS	CONSTRUCTION SPECIALTIES	ACROVYN CORNER GUARD SFS SERIES, 2" LEGS; EXTENDING FROM TOP TO WALL BASE UP TO 8'-0" AFF	TO MATCH WALL COLOR		N/A
FLOORS						
CPT-1	CARPET	J&J FLOORING	KINETEX DIGITAL	TURNING		Michelena Clarke <Michelena.Clarke@interface.com>
PFT-1	PORCELAIN FLOOR TILE	TRINITY SURFACES	CORDUROY, 12" X 24"	ROPE, RECTIFIED MATTE	RESTROOM FLOORING	Dave Milanowycz <dave.milanowycz@floridatile.com>
RF-1	RESILIENT FLOOR	GERFLOR	MIPOLAM BIOCONTROL CLEAN	5408 CHALK DUSK	LAB & LAB SUPPORT AREAS	N/A
RF-2	RESILIENT FLOOR	GERFLOR	MIPOLAM PLANET	5412 MOON STONE	BREAKROOM AREA	N/A
MILLWORK						
EP-1	1" EPOXY RESIN COUNTERTOP	KEWAUNEE	KEMRESIN WORKTOP	BLACK		Rich Murphy <rmurphy@lab-furniture.com
PL-1	PLASTIC LAMINATE	NEVAMAR	AURORA OAK	W02699 NATURAL WOOD		Cheryl A Anderson; cheryl.anderson@wilsonart.com, 339-927-6074
SS-1	SOLID SURFACE	HANEX	SOLID SURFACE	VM-004 VENATO CHAMPAGNE		Lisa Carrescia <lcarrescia@parksite.com
WALL BASE						
WB-1	RUBBER WALL BASE	ROPPE	4" HIGH, STRAIGHT PROFILE (AT RF-1 AND RF-2)	BLACK	TOELESS AT CARPET ,TOE AT RESILIENT FLOORING	Frank Wiseman - Frank.Wiseman@tarkett.com - 704.728.9552
WB-2	RUBBER WALL BASE	ROPPE	4" HIGH, COVED PROFILE (AT CPT-1)	BLACK	AT WF-1	
WB-3	TILE WALL BASE	TRINITY SURFACES	CORDUROY, 3" X 12" BULLNOSE	ROPE, RECTIFIED MATTE	RESTROOMS	
WALLS						
MB-1	MARKERBOARD	CLARIDGE	SERIES 2 MARKERBOARD, FLAT TRAY	WHITE	*CONTRACTOR FURNISHED, CONTRACTOR INSTALLED*; PROVIDE IN-WALL BLOCKING AS REQUIRED	Wendy Tabor <matt@kanecontractgroup.com>
PT-1	PAINT	BENJAMIN MOORE	OC-17, FINISH: EGGSHELL AT WALLS, FLAT FINISH AT GWB CEILINGS	WHITE DOVE	GENERAL WALL AND GWB CEILINGS	Smith, Allyson <Allyson.Smith@Benjaminmoore.com>
PT-1A	EPOXY PAINT	BENJAMIN MOORE	EPOXY PAINT	COLOR TO MATCH PT-1 SPEC	LAB AND LAB SUPPORT SPACES	Smith, Allyson <Allyson.Smith@Benjaminmoore.com>
PT-2	ACCENT PAINT	BENJAMIN MOORE	EPOXY PAINT FINISH: EGGSHELL; DOORS AND FRAMES FINISH: SEMI-GLOSS	COLOR TO MATCH HC-181 HERITAGE RED	ACCENT WALL PAINT AND DOORS/FRAMES AT CORRESPONDING LOCATIONS. PROVIDE LEVEL 4 GWB FINISH	Smith, Allyson <Allyson.Smith@Benjaminmoore.com>
PT-3	ACCENT PAINT	BENJAMIN MOORE	2108-10; WALL FINISH: EGGSHELL; DOORS AND FRAMES FINISH: SEMI-GLOSS	BURNT EMBER	LAB & LAB SUPPORT AREAS ACCENT WALL PAINT AND DOORS/FRAMES, PROVIDE LEVEL 4 GWB FINISH	Smith, Allyson <Allyson.Smith@Benjaminmoore.com>
PT-3A	ACCENT PAINT	BENJAMIN MOORE	EPOXY PAINT	COLOR TO MATCH PT-3 SPEC	LAB AND LAB SUPPORT SPACES	Smith, Allyson <Allyson.Smith@Benjaminmoore.com>
PT-4	PAINT	SHERWIN WILLIAMS	INTERIOR LATEX PAINT	COLOR TO MATCH PT-1 SPEC	RESTROOM WALLS	Smith, Allyson <Allyson.Smith@Benjaminmoore.com>
PT-X	PAINT	BENJAMIN MOORE	OC-17, FINISH: EGGSHELL AT WALLS, FLAT FINISH AT GWB CEILINGS	WHITE DOVE	GENERAL WALL AND GWB CEILINGS	Smith, Allyson <Allyson.Smith@Benjaminmoore.com>
WT-1	WALL TILE	B&F CERAMICS	PORTOFINO, SIZE: 2.5" x 10", REFER TO ELEVATIONS FOR INSTALL PATTERN	GLOSSY OCRA	KITCHENETTE	
WT-2	WALL TILE	BEAVER TILE & STONE	VETRI, SIZE: 12" X 24", STACKED BOND INSTALLATION PATTERN	FUME	RESTROOM SINK WALL, FULL HEIGHT EXTENTS	

FINISH PLAN - FINISHED FLOOR MATERIAL LEGEND

CARPET 1, CPT-1

RESILIENT FLOOR, RF-1

PORCELAIN FLOOR TILE FT-1

RESILIENT FLOOR, RF-2

RB 2 — FINISH ACCENT TAG

WALL FINISH / BASE FINISH / FLOOR FINISH — ROOM FINISH TAG

FINISH PLAN - GENERAL NOTES

A. REFER TO DRAWING A-141 FOR FINISH SCHEDULE.

B. ALL WALLS TO BE PAINTED PT-1, UON. SEE FINISH PLANS FOR ACCENT PAINT AND WALL FINISH LOCATIONS.

C. FLOORING AND WALL BASE TO EXTEND BEHIND CASEWORK/ MILLWORK, AND EQUIPMENT, UON.

D. REFER TO INTERIOR ELEVATIONS FOR EXACT FINISH LOCATIONS.

E. ROOM FINISHES ARE FOR GENERAL INFORMATION. REFER TO FINISH SCHEDULE, FINISH PLANS AND ELEVATIONS FOR EXACT FINISHES AND LOCATIONS.

F. TRIM PAINT TO MATCH ADJACENT WALLS / FINISHES UON.

G. PREPARE EXISTING FLOOR SLAB TO RECEIVE NEW FLOORING PER MANUFACTURERS RECOMMENDATIONS AND STANDARD INSTALLATION INSTRUCTIONS.

H. CONTRACTOR SHALL BE RESPONSIBLE FOR LEVELING FLOOR TO COVER MILLWORK TOLERANCES AND FLOOR FINISHES.

I. PROVIDE ADA COMPLIANT TRANSITION STRIPS BETWEEN FLOORING MATERIALS.

J. SEE FINISH PLANS FOR FLOORING MATERIAL LAYOUT.

K. FILLER AND END PANELS TO MATCH ADJACENT CASEWORK MATERIAL, UON.

L. SEE ELEVATIONS AND DETAILS FOR CASEWORK MATERIALS.

M. CAULKING AROUND CASEWORK SHALL MATCH THE ADJACENT WALL COLOR.

N. CASEWORK WITH WOOD GRAIN TO RUN VERTICALLY AT SURFACES INCLUDING DRAWER FRONTS.

O. REFER TO SHEET A600 FOR MORE INFORMATION ON DOOR/FRAME FINISHES.

P. ACCESSIBLE FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT PER 2010 ADA SECTION 302.1.

Q. DIMENSIONS ARE FROM THE FACE OF FRAMING. REFER TO G002 FOR PARTITION TYPES.

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Permit/Seal

REGISTERED ARCHITECT MICHAEL STEVEN [illegible] 041042 STATE OF NEW YORK

Key Plan:

AREA OF WORK

Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

FIRST FLOOR FINISH PLAN

Scale: As indicated

Revision: 0

Drawing No. **A141**

<Pick location in Project Information>
7/1/2024 3:52:23 PM

ORIGINAL SHEET - ARCH E1



B1 FIRST FLOOR FURNITURE PLAN

A161 1/8" = 1'-0"

FURNITURE PLAN LEGEND

	OWNER PROVIDED FURNITURE, FURNITURE SYSTEMS, AND EQUIPMENT
MB-1	4'H x 16'W MARKERBOARD
MB-2	4'H x 12'W MARKERBOARD
PR-1	PRINTER / COPIER
REF	BREAKROOM REFRIGERATOR

① FURNITURE PLAN KEYNOTES

1. PROVIDE POWER POLE FOR FURNITURE POWER AND DATA CONNECTIONS, SEE ELECTRICAL AND TELECOM DRAWINGS FOR ADDITIONAL INFORMATION.

FURNITURE PLAN GENERAL NOTES

A. SEE A700 SERIES DRAWINGS FOR LAB FURNITURE AND SPECIALTY EQUIPMENT INFORMATION.

B. OFFICE, OPEN OFFICE, CONFERENCE ROOM, AND BREAK ROOM FURNITURE TO BE PROVIDED BY OWNER, SHOWN (IN BLUE) FOR REFERENCE ONLY.

C. SEE PLUMBING AND ELECTRICAL DRAWINGS FOR LOCATION OF PROCESS UTILITIES, OUTLETS, WIREMOLD, AND DATA RECEPTACLES.

D. PROVIDE MIN. 12" HIGH, 16 GAUGE SHEET METAL BLOCKING BEHIND ANY AND ALL WALL MOUNTED CABINETRY AND FURNISHINGS AS REQUIRED FOR PROPER AND SECURE ANCHORAGE OF WALL MOUNTED ITEMS. BLOCKING TO SPAN CONTINUOUSLY FROM STUD TO STUD BEHIND WALL MOUNTED ITEMS AND BE PROVIDED AT ALL ANCHORAGE LOCATIONS. COORDINATE WITH OWNER FOR BLOCKING AT OWNER PROVIDED FURNITURE, EQUIPMENT, AND ACCESSORIES.

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REGISTERED ARCHITECT MICHAEL STEVEN MILLER 041042 STATE OF NEW YORK

Key Plan:

Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

FIRST FLOOR FURNITURE PLAN

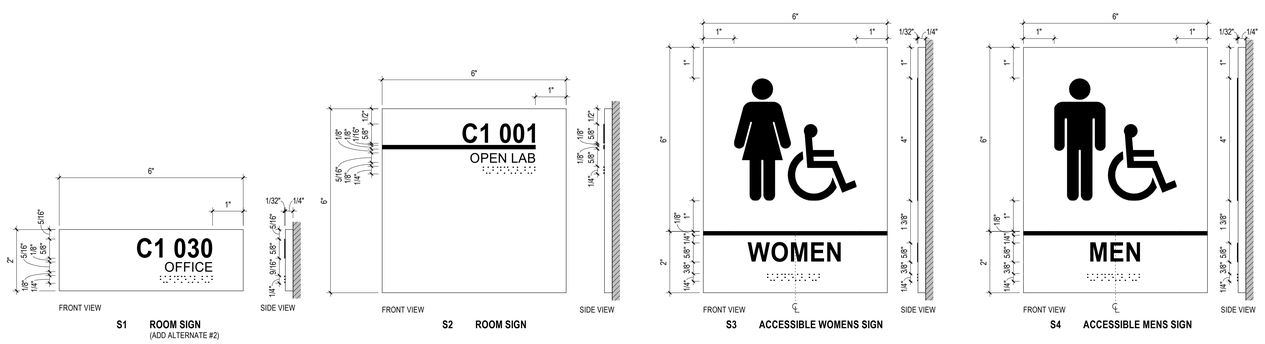
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Drawing No. **A161**

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ORIGINAL SHEET - ARCH E1

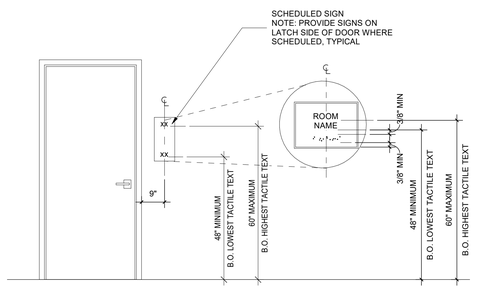


B1 FIRST FLOOR SIGNAGE PLAN
A181 1/8" = 1'-0"



S1 ROOM SIGN (ADD ALTERNATE #2)
S2 ROOM SIGN
S3 ACCESSIBLE WOMENS SIGN
S4 ACCESSIBLE MENS SIGN

SIGNAGE DETAILS
6" = 1'-0"



SIGNAGE MOUNTING HEIGHT DIAGRAM
1/2" = 1'-0"

SIGN TYPE NO.	DESCRIPTION	PICTOGRAM (IF APPLICABLE)	BASIS-OF-DESIGN	BRAILLE
S1	ROOM SIGN			YES
S2	ROOM SIGN			YES
S3	ACCESSIBLE WOMENS	P1		YES
S4	ACCESSIBLE MENS	P3		YES
S5				
S6				
S7				
S8				

1. ACCESSIBILITY STANDARD: COMPLY WITH APPLICABLE PROVISIONS IN THE USDOJ'S "2010 ADA STANDARDS FOR ACCESSIBLE DESIGN" AND 2017 NEW YORK STATE ACCESSIBILITY CODE.
2. UTILIZE OWNER STANDARD FOR SIGNAGE PACKAGE TO MATCH LANGUAGE OF EXISTING BUILDING.
3. BRAILLE TEXT TO FOLLOW NYS ACCESSIBILITY CODE 703.4.3 GUIDELINES. NOTIFY ARCHITECT OF DISRECPANCY.

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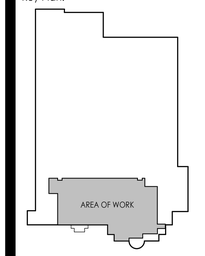
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Key Plan:



Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

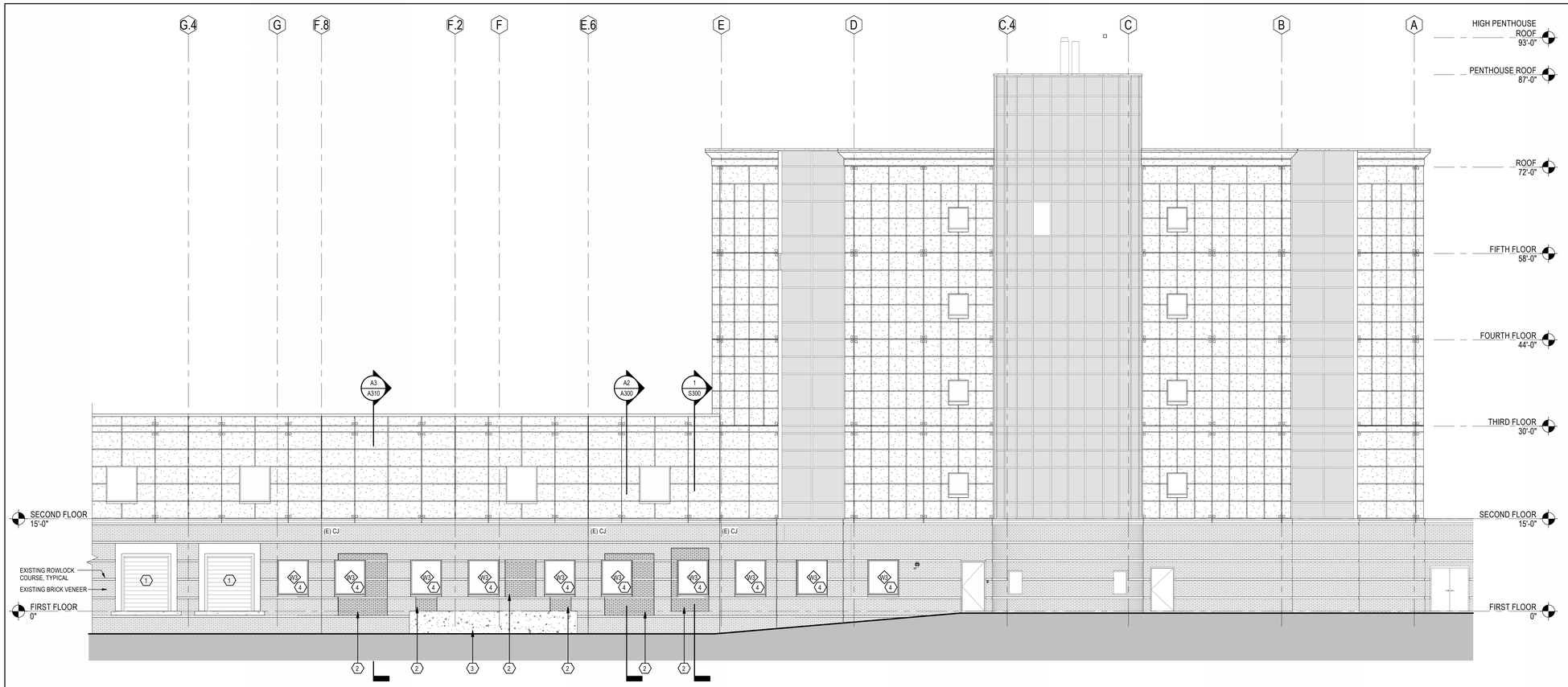
SUCF#: 191030

Project No.:225306010

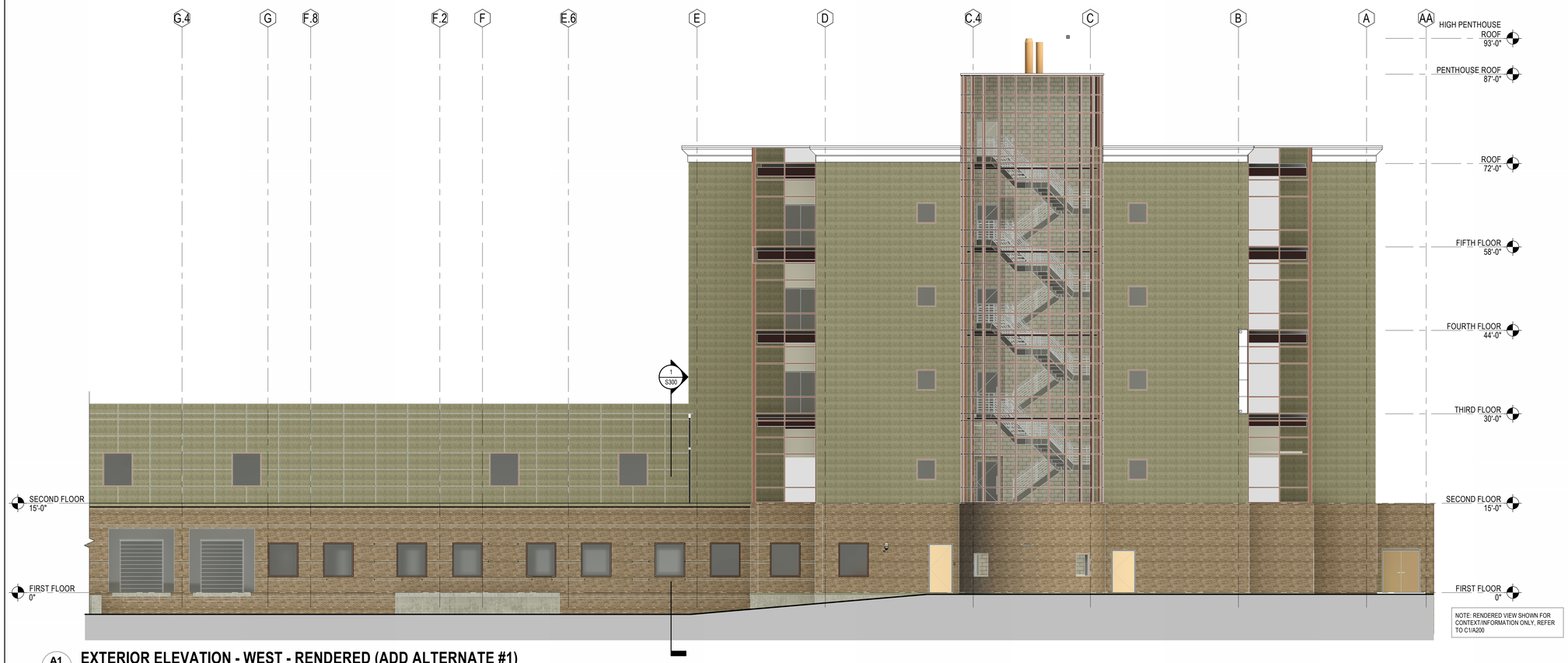
FIRST FLOOR SIGNAGE PLAN

Scale: As indicated
Revision: **0**
Drawing No. **A181**

eRick Soutton in Project Information
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ORIGINAL SHEET - ARCH E1



C1 / A200 **EXTERIOR ELEVATION - WEST (ADD ALTERNATE #1)**
1/8" = 1'-0"



A1 / A200 **EXTERIOR ELEVATION - WEST - RENDERED (ADD ALTERNATE #1)**
1/8" = 1'-0"

EXT ELEVATION GENERAL NOTES

A. UTILIZE MASONRY COURSING WHEN LOCATING WINDOWS TO THE MAXIMUM EXTENTS POSSIBLE, COORDINATE WITH ARCHITECT ON DISCREPANCIES FROM DIMENSIONS INDICATED ON DRAWINGS.

EXT ELEVATION KEYNOTES

1. EXISTING OVERHEAD DOOR ASSEMBLY TO REMAIN.
2. INFILL OPENING TO MATCH EXISTING EXTERIOR WALL ASSEMBLY, SEE DETAIL A3/A310 FOR ADDITIONAL INFORMATION.
3. EXISTING STAIRS AND LANDING TO REMAIN.
4. NEW WINDOW OPENING AND GLAZING (W3)

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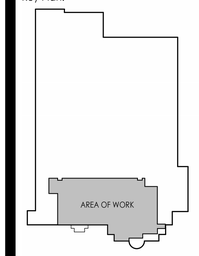
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Key Plan:



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Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

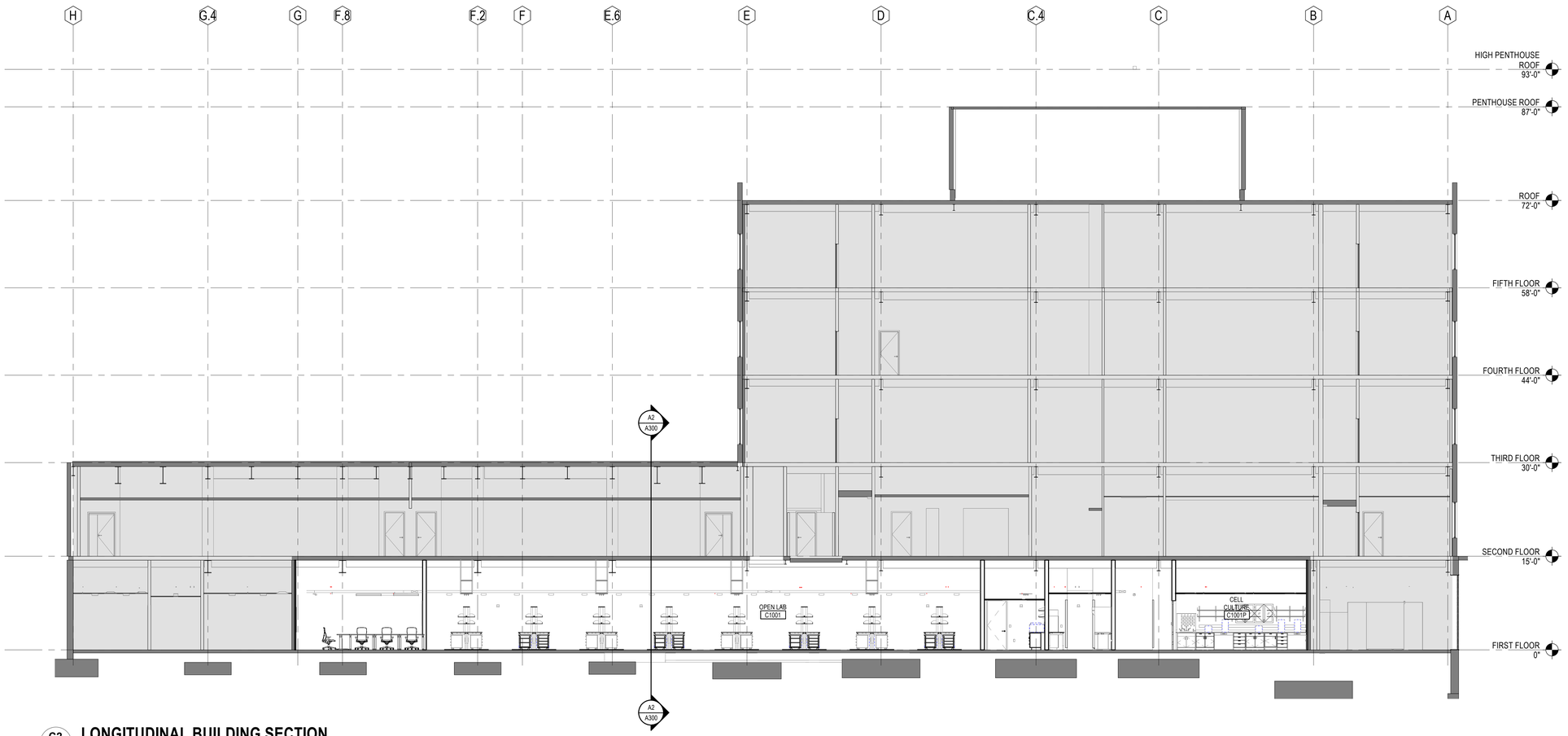
Project No.:225306010

EXTERIOR ELEVATIONS

Scale: As indicated
Revision: **0**
Drawing No. **A200**

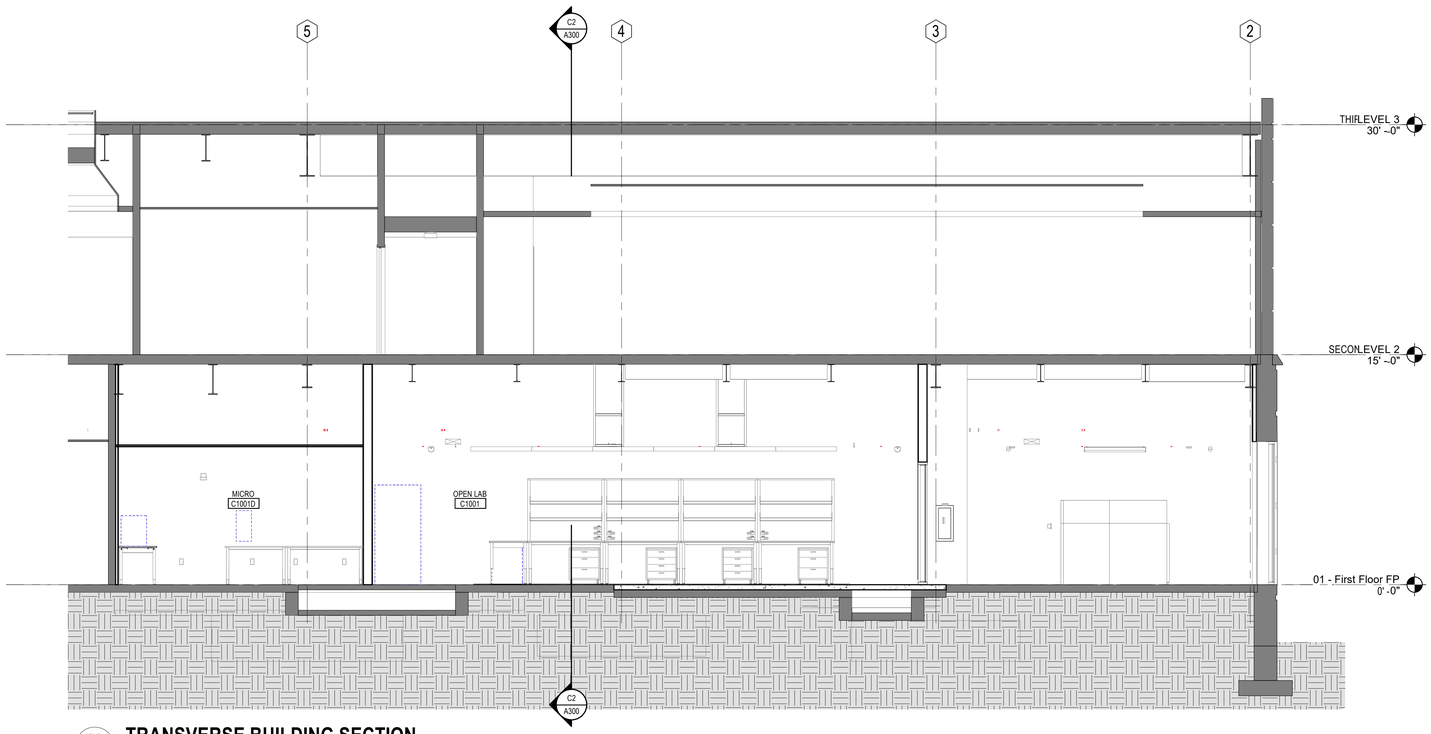
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ORIGINAL SHEET - ARCH E1



C2 / A300 LONGITUDINAL BUILDING SECTION

1/8" = 1'-0"



A2 / A300 TRANSVERSE BUILDING SECTION

1/4" = 1'-0"

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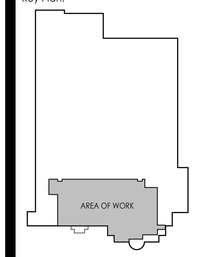
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Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

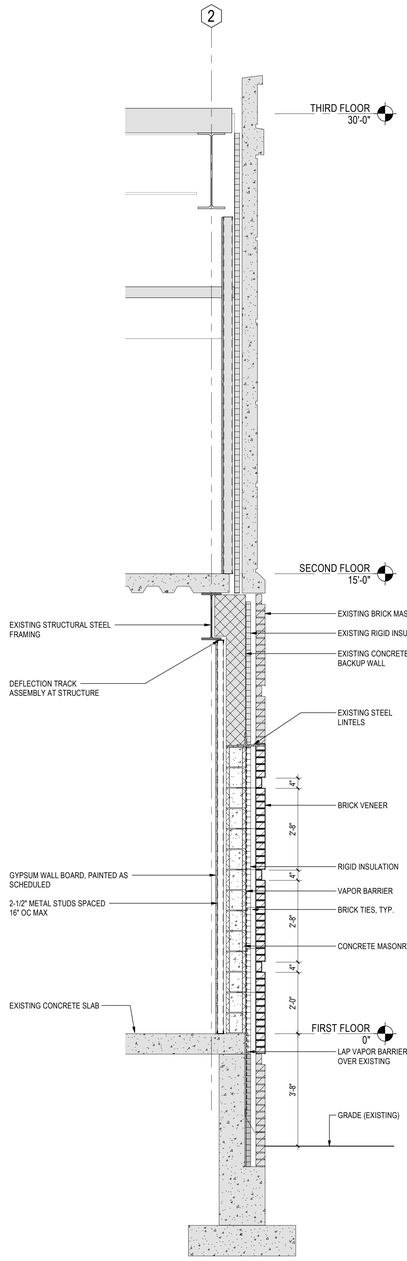
SUCF#: 191030

Project No.:225306010

BUILDING SECTIONS

Scale: As indicated
Revision: **0**
Drawing No. **A300**

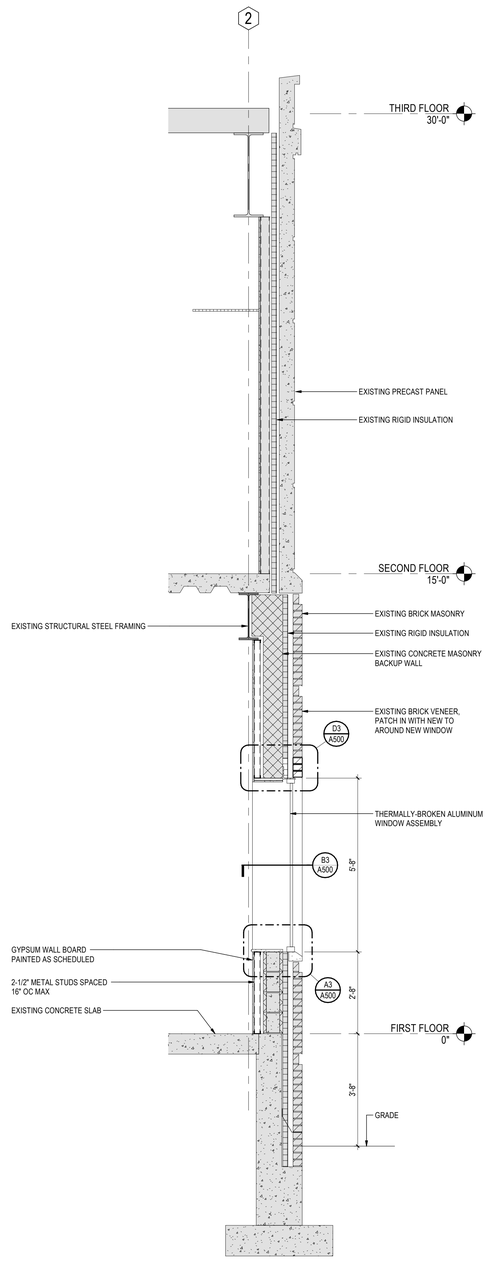
ORIGINAL SHEET - ARCH E1



A3 / A310 **WALL SECTION AT LOADING DOCK DOOR INFILL**

1/2" = 1'-0"

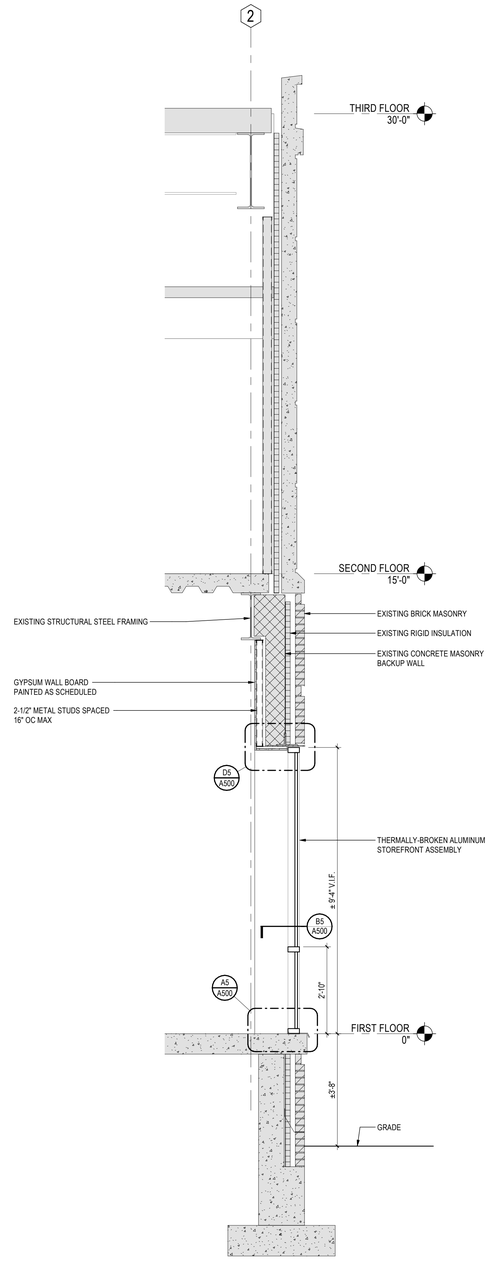
ADD ALTERNATE #1



A4 / A310 **WALL SECTION AT OFFICE WINDOW**

1/2" = 1'-0"

ADD ALTERNATE #1



A5 / A310 **WALL SECTION AT STOREFRONT**

1/2" = 1'-0"

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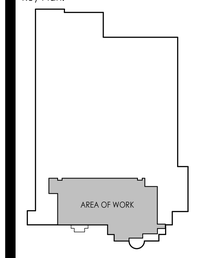
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Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

WALL SECTIONS

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

Revision:**0**

Drawing No. **A310**

*Pick location in Project Information
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ORIGINAL SHEET - ARCH E1

TOILET ACCESSORIES SCHEDULE

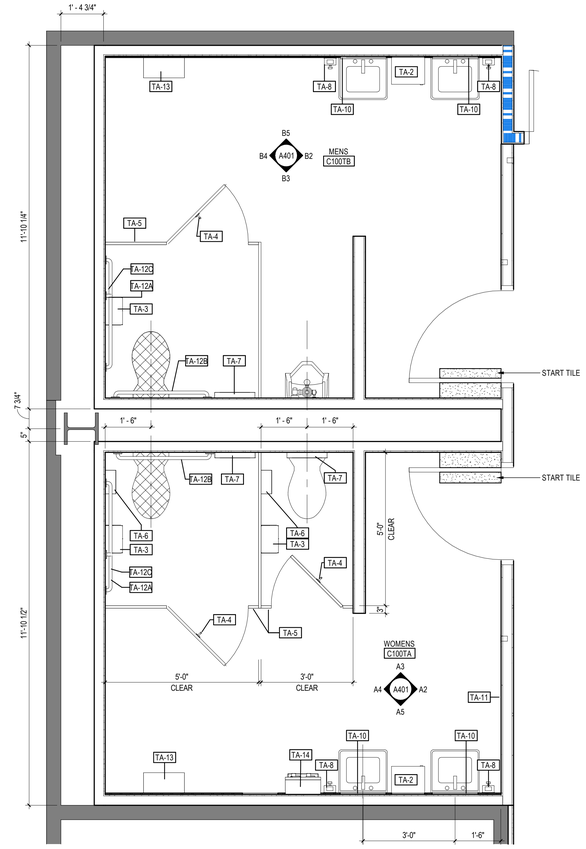
MARK	NAME	MANUFACTURER	MODEL DESCRIPTION	MODEL NUMBER	NOTES
TA-1	TRASH CONTAINERS	SLIM WASTE CONTAINER	--	RMD2632	PROVIDE 1 PER RR
TA-2	SURFACE MOUNTED PAPER TOWEL DISPENSER	GEORGIA PACIFIC	--	#54338A	PROVIDE 1 PER RR
TA-3	SURFACE MOUNTED DOUBLE TOILET TISSUE	GEORGIA PACIFIC	COMPACT CORELESS	-"	WOMENS: PROVIDE 2 MENS: PROVIDE 1
TA-4	PARTITION/WALL MOUNTED COAT HOOK	BOBRICK	--	#B-542	WOMENS: PROVIDE 2 MENS: PROVIDE 1
TA-5	TOILET COMPARTMENT PARTITIONS	ASI, AMERICAN SPECIALTIES INC	SOLID PLASTIC HDPE		SEE PLAN
TA-6	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL	BOBRICK	--	#B-25125200	WOMENS: PROVIDE 1
TA-7	SURFACE MOUNTED TOILET SEAT COVER DISPENSER	BOBRICK	--	#B-4221	WOMENS: PROVIDE 2 MENS: PROVIDE 1
TA-8	SURFACE MOUNTED VERTICAL SOAP DISPENSER	DEB SOAP	PROLINE CURVED WHITE		OWNER FURNISHED GC INSTALLED
TA-9	CONVEX WALL STOP	BURNS MANUFACTURING		#560	PROVIDE 1 PER RR
TA-10	WELDED FRAMED MIRROR	BOBRICK	--	#B-290 SERIES	PROVIDE 2 PER RR
TA-11	FULL LENGTH FRAMED MIRROR				PROVIDE 1 PER RR
TA-12A	42" WALL MOUNTED GRAB BARS	BOBRICK	--	#B-5806 SERIES	PROVIDE 1 PER RR
TA-12B	36" WALL MOUNTED GRAB BARS	BOBRICK	--	#B-5806 SERIES	PROVIDE 1 PER RR
TA-12C	18" WALL MOUNTED GRAB BARS (VERTICAL)	BOBRICK	--	#B-5806 SERIES	PROVIDE 1 PER RR
TA-13	SHELF	BOBRICK	STAINLESS STEEL	#B-295 x16	WOMENS: PROVIDE 2 MENS: PROVIDE 1
TA-14	SANITARY NAPKIN DISPENSER	BOBRICK	STAINLESS STEEL	#B370639	WOMENS: PROVIDE 2

GENERAL NOTES

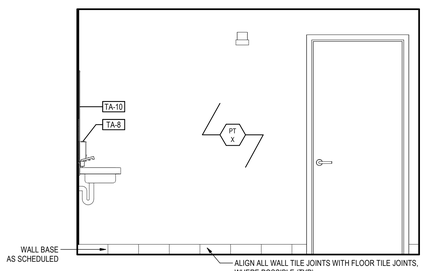
1. DIMENSIONS ARE TO FACE OF FINISH.
2. REFER TO ELECTRICAL, MECHANICAL, FIRE PROTECTION, FIRE ALARM DOCUMENTS FOR ALL CEILING MOUNTED DEVICES.
3. REFER TO SHEET A001 FOR TYPICAL MOUNTING INFORMATION.
4. REFER TO ELEC AND PLUMBING DWGS FOR MORE INFORMATION.
5. ALL NON ADA TOILETS ARE CENTERED BETWEEN TOILET PARTITIONS.

LEGEND

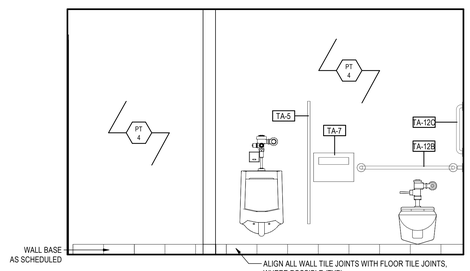
ACCESSIBLE TOILET, REFER TO A001 FOR TYPICAL ADA CLEARANCES



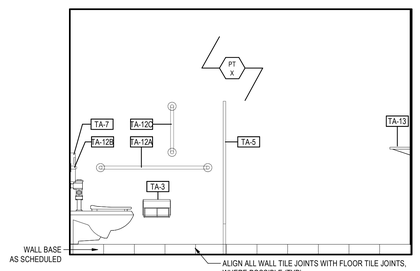
C5 A401 **ENLARGED FIRST FLOOR PLAN AT C100TA WOMENS AND C100TB MENS**
1/2" = 1'-0"



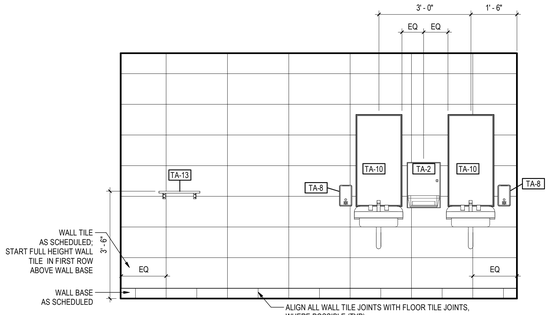
B2 A401 **MEN'S RESTROOM EAST ELEVATION**
1/2" = 1'-0"



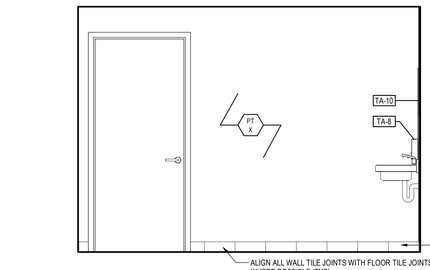
B3 A401 **MEN'S RESTROOM SOUTH ELEVATION**
1/2" = 1'-0"



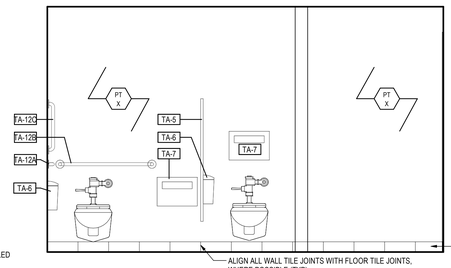
B4 A401 **MEN'S RESTROOM WEST ELEVATION**
1/2" = 1'-0"



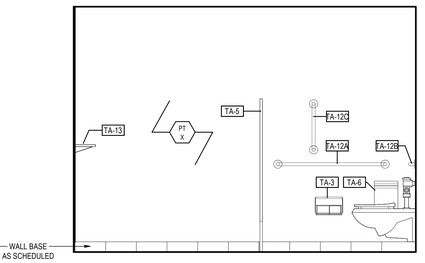
B5 A401 **MEN'S RESTROOM NORTH ELEVATION**
1/2" = 1'-0"



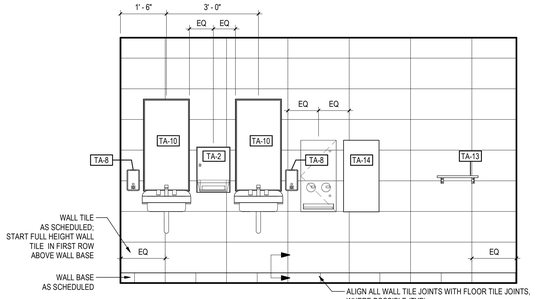
A2 A401 **WOMEN'S RESTROOM EAST ELEVATION**
1/2" = 1'-0"



A3 A401 **WOMEN'S RESTROOM NORTH ELEVATION**
1/2" = 1'-0"



A4 A401 **WOMEN'S RESTROOM WEST ELEVATION**
1/2" = 1'-0"



A5 A401 **WOMEN'S RESTROOM SOUTH ELEVATION**
1/2" = 1'-0"

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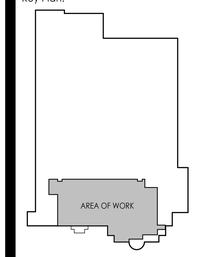
Consultant

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Issued/Revision		YYYY.MM.DD

Permit/Seal



Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

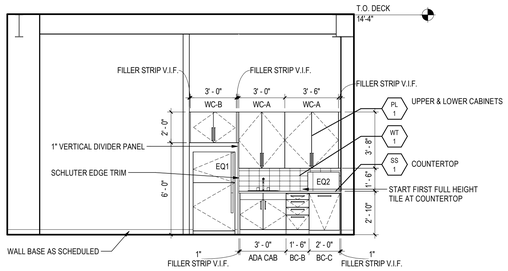
Project No.:225306010

ENLARGED RESTROOMS AND ELEVATIONS

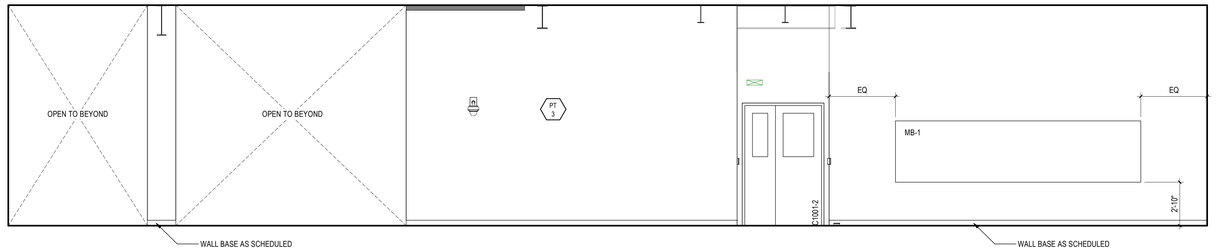
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Revision:**0**
Drawing No. **A401**

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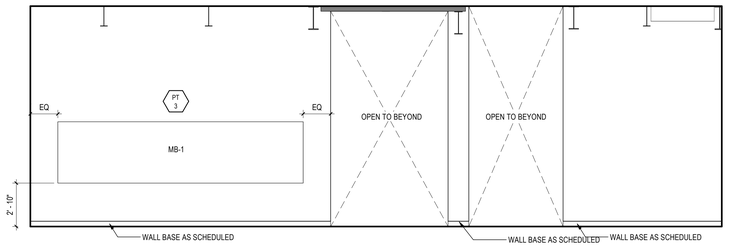
ORIGINAL SHEET - ARCH E1



E1 / A402 **C1022 - WEST ELEVATION**
1/4" = 1'-0"



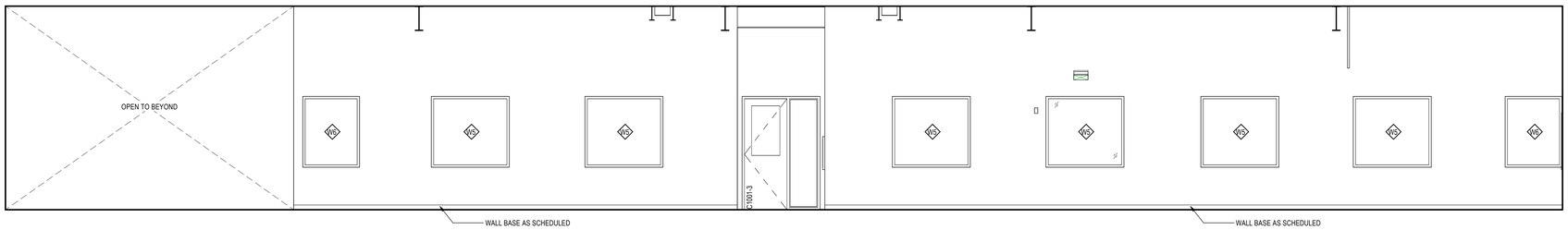
E3 / A402 **C1022 - EAST ELEVATION**
1/4" = 1'-0"



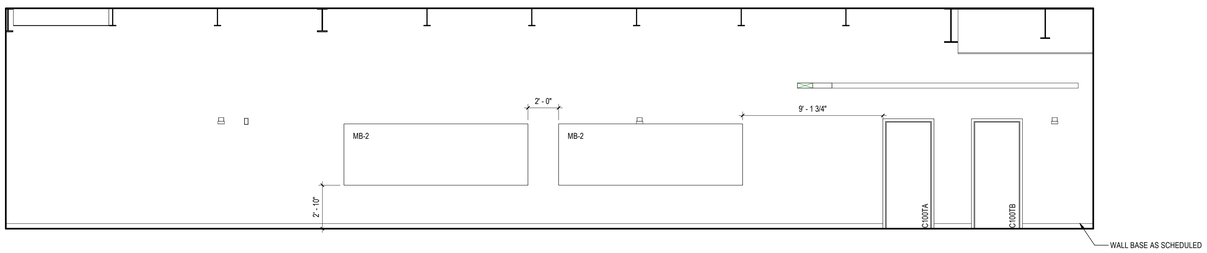
D1 / A402 **C1024 - SOUTH ELEVATION**
1/4" = 1'-0"

EQUIPMENT & ACCESSORY SCHEDULE

TAG	DESCRIPTION	MANUF.	MODEL	COLOR	COMMENTS
EQ1	FULL SIZE REFRIGERATOR	WHIRLPOOL	WRT108FFDB; 65-7/8"H X 28-7/8" X 29-3/4"W ; 18 CUBIC FEET	STAINLESS STEEL	ADA COMPLIANT; ARCHITECT TO VERIFY HINGE LOCATION; CONTRACTOR PROVIDED CONTRACTOR INSTALLED
EQ2	COUNTER TOP MICROWAVE	SUMMIT	SCM1000SS; 12.63" H x 20.5" W x 15.88" D	STAINLESS STEEL	ADA COMPLIANT; CONTRACTOR PROVIDED, CONTRACTOR INSTALLED



C1 / A402 **C1021 CORRIDOR FACING EAST**
1/4" = 1'-0"



B1 / A402 **C1035 - NORTH ELEVATION**
1/4" = 1'-0"

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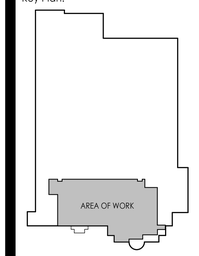
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Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

INTERIOR ELEVATIONS

Scale: 1/4" = 1'-0"
Revision:**0**
Drawing No. **A402**

ORIGINAL SHEET - ARCH E1

<Office location> Project Information>
7/1/2026 3:53:32 PM

ARCHITECTURAL CASEWORK GENERAL NOTES:

1. HORIZONTAL AND VERTICAL DIMENSIONS ON ARCHITECTURAL WOODWORK AND CASEWORK PLANS, SECTIONS, ELEVATIONS AND DETAILS ARE FROM FINISH FACE OF EXISTING AND NEW CONSTRUCTION UNLESS OTHERWISE NOTED. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO SHOP DRAWINGS, ORDER AND FABRICATION OF ALL CASEWORK.

2. AT ALL ARCHITECTURAL WOODWORK AND CASEWORK COORDINATE AND PROVIDE FOR ALL COMPONENTS AND WORK AS REQUIRED FOR A COMPLETE AND FINISHED INSTALLATION, INCLUDING BUT NOT LIMITED TO BLOCKING, ANCHORAGES, FILLER AND CLOSURE PANELS AND ACCOMODATIONS FOR THE PROPER INSTALLATION OF EQUIPMENT, HARDWARE, WORK OF OTHER TRADES AND ITEMS FURNISHED BY THE OWNER.

3. PROVIDE A CONTINUOUS 1 1/2" X 2" X 1/8" LLV THICK ALUMINUM ANGLE SUPPORT SECURELY ANCHORED TO WALLS AT ALL LOCATIONS WHERE COUNTERTOPS MEET SIDE AND REAR WALLS, HOLD ANGLE 3" BACK FROM LEADING EDGE OF COUNTER AND MITER VERTICAL LEG OF ANGLE AT 45 DEGREES. SCREW ATTACH TO WALL AND COUNTER, MAXIMUM SPACING 1'-0" ON CENTER WITH FASTENERS WITHIN 3" OF EACH END OF ANGLE. PROVIDE MINIMUM 3 FASTENERS PER ANGLE LENGTH. GRIND AND POLISH EDGES OF BRACKET SMOOTH PRIOR TO PRIMING AND PAINTING. PRIME AND PAINT. AT LOCATIONS WITH WIRE MANAGEMENT SUPPORT BRACKET, PROPERLY ANCHOR WIRE MANAGEMENT SUPPORT BRACKET TO WALL AND WORK SURFACE IN LIEU OF ALUMINUM ANGLE.

4. SCRIBE ALL COUNTERTOPS, BACKSPLASHES AND FILLER PANELS TO FIT TIGHT AGAINST NEW AND EXISTING CONSTRUCTION.

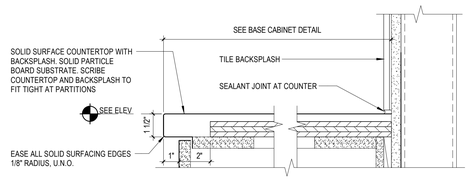
5. AT ALL EXPOSED AND SEMI-EXPOSED SIDES OF BASE, WALL AND TALL CABINETRY RUNS PROVIDE FULL DEPTH FINISHED END PANEL. SCRIBE TO FIT TIGHT AT PARTITION CONSTRUCTION. END PANEL FABRICATION THAT UTILIZES A FILLER PANEL OR OTHERWISE CREATES A VISIBLE JOINT LINE AT THE EXPOSED SIDE OF CABINET WILL NOT BE ACCEPTED.

6. ALL CABINETRY BENEATH COUNTERTOPS, INCLUDING BUT NOT LIMITED TO BASE CABINETS, APRONS, END PANELS AND FILLER PANELS, SHALL BE RECESSED 1-INCH FROM THE LEADING EDGE OF COUNTERTOP ABOVE, UNLESS OTHERWISE NOTED.

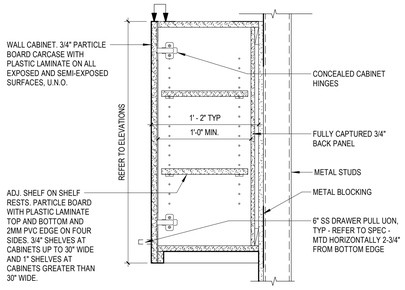
7. PROVIDE LOCKS AT ALL ALL CABINETRY DOORS AND DRAWER FRONTS, UNLESS NOTED OTHERWISE, CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING KEYING REQUIREMENTS WITH OWNER, INCLUDING BUT NOT LIMITED TO KEYING SYSTEM ORGANIZATION, MASTER OR GRANDMASTERED KEYING CAPABILITIES AND QUANTITIES OF KEYS REQUIRED.

8. PROVIDE WALL BASE AT THE BASE OF ALL EXPOSED OR SEMI-EXPOSED CABINETRY FRONTS, SIDES, KICKSPACES AND RECESSES, INCLUDING BUT NOT LIMITED TO END PANELS, FILLER PANELS, ETC. BASE TO RUN FULL HEIGHT OF KICKSPACE; PROVIDE OVERSIZED BASE AND TRIM AS REQUIRED WHERE FLOOR IS NOT LEVEL AND/OR STRAIGHT.

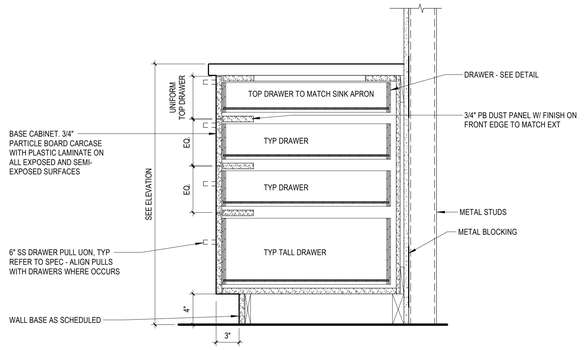
9. PROVIDE CONCEALED FASTENERS AND ANCHORAGES AT ALL CABINETRY UNLESS OTHERWISE NOTED OR APPROVED IN WRITING BY THE ARCHITECT.



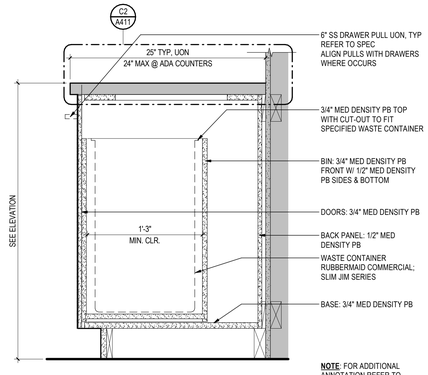
C2 A411 **MLWK - COUNTER - SSF**
3" = 1'-0"



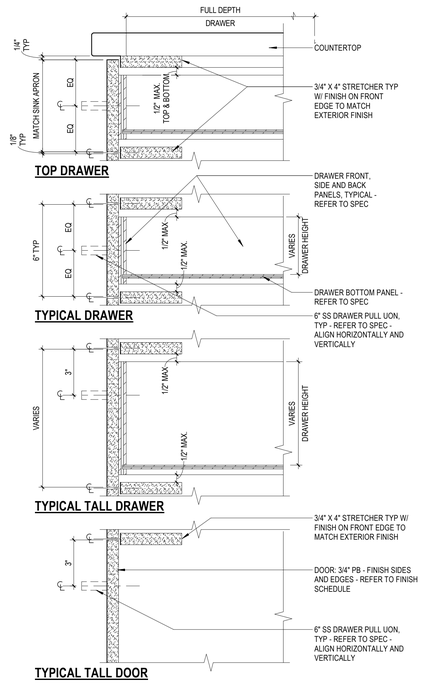
C4 A411 **MLWK - WALL CAB W/ DOOR (WC-A)**
1 1/2" = 1'-0"



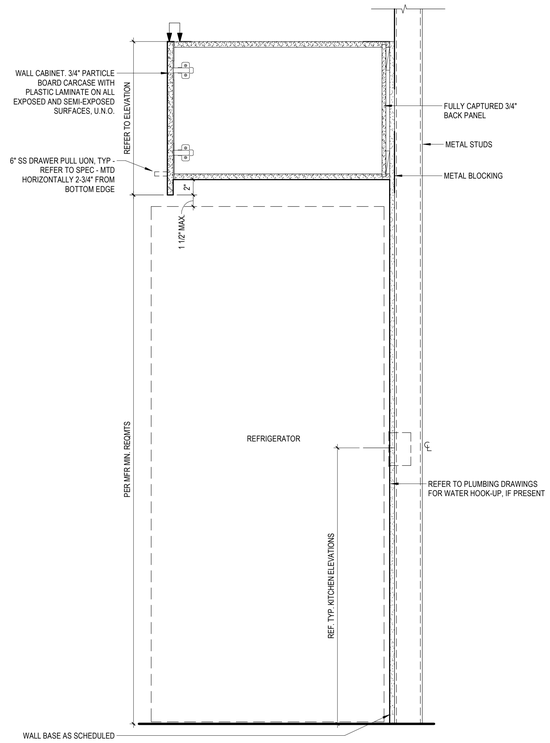
C5 A411 **MLWK - BASE CAB W/ 4 DWR (BC-B)**
1 1/2" = 1'-0"



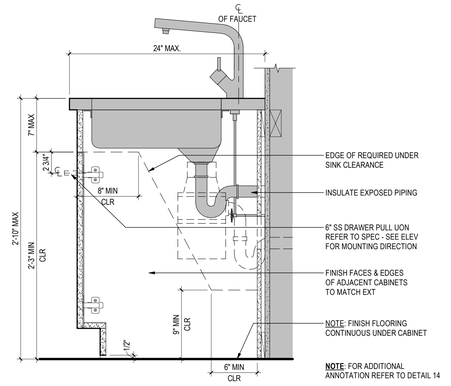
A1 A411 **MLWK - BASE CAB W/ TRASH DWR (BC-C)**
1 1/2" = 1'-0"



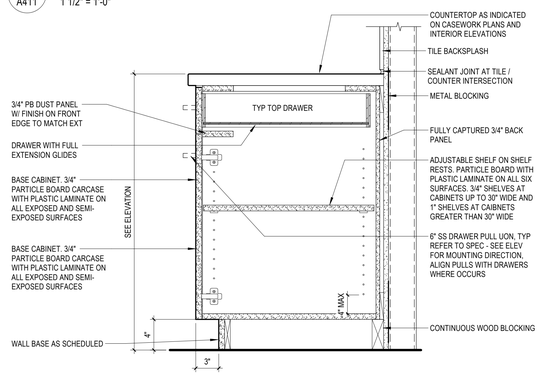
A2 A411 **MLWK - BASE CAB TYP DRAWER**
3" = 1'-0"



A4 A411 **MLWK - WALL CAB @ REF (WC-B)**
1 1/2" = 1'-0"



B5 A411 **MLWK - BASE CAB W/ SINK & DR - (SB-A)**
1 1/2" = 1'-0"



A5 A411 **MLWK - BASE CAB W/ DWR & DOOR (BC-A)**
1 1/2" = 1'-0"

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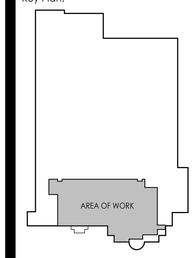
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Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

MILLWORK DETAILS

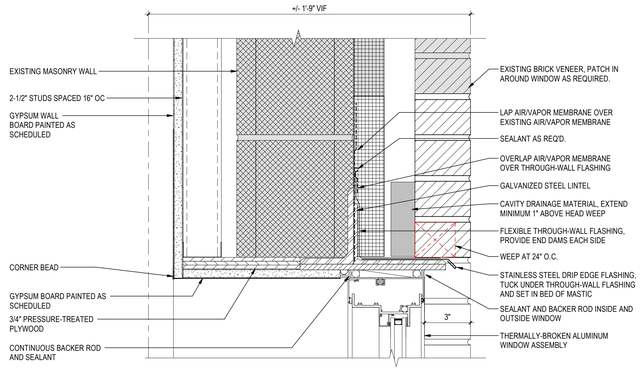
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Revision: **0**
Drawing No. **A411**

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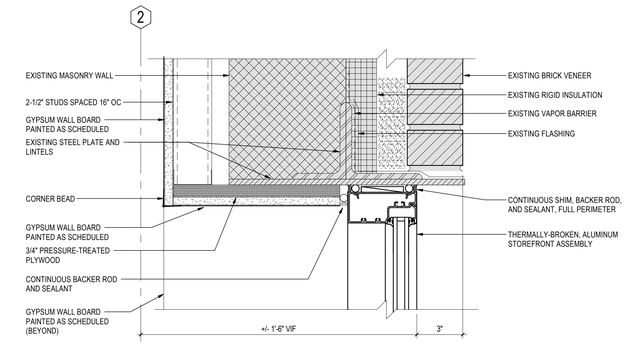
ORIGINAL SHEET - ARCH E1

NOTES:

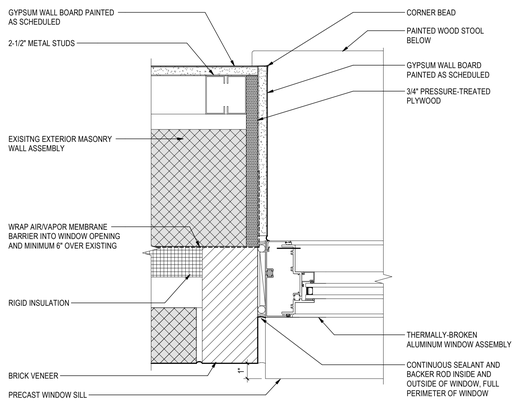
1. TYPICAL ALL DETAILS: GRAY SHADE REPRESENTED EXISTING ASSEMBLY ELEMENTS, NO SHADE REPRESENTS NEW. REFER TO DEMO PLANS, NEW PLANS, AND EXTERIOR ELEVATIONS TO DISCENERN THE EXTENTS OF NEW VERSUS EXISTING CONSTRUCTION AT THESE DETAILS.



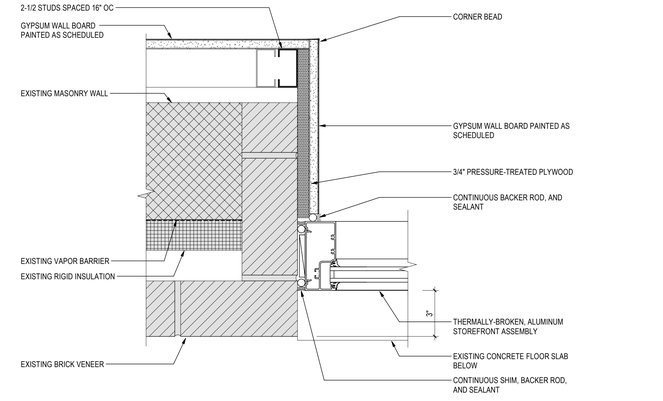
D3 / A500 — **HEAD DETAIL AT ALUMINUM WINDOW**
3" = 1'-0"



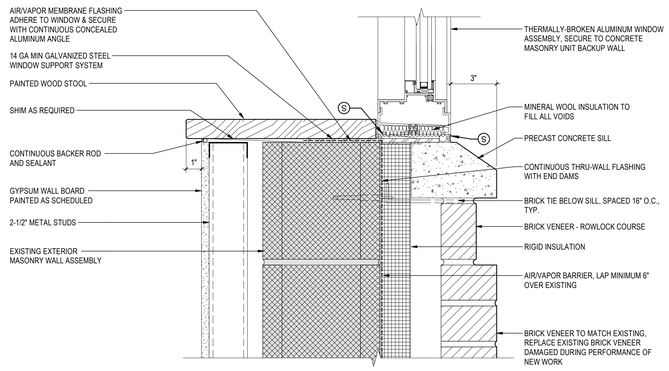
D5 / A500 — **HEAD DETAIL AT ALUMINUM STOREFRONT**
3" = 1'-0"



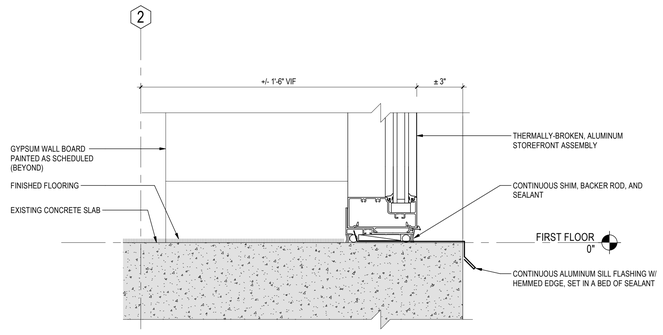
B3 / A500 — **JAMB DETAIL AT ALUMINUM WINDOW (ADD ALTERNATE #1)**
3" = 1'-0"



B5 / A500 — **JAMB DETAIL AT ALUMINUM STOREFRONT**
3" = 1'-0"



A3 / A500 — **SILL DETAIL AT ALUMINUM WINDOW (ADD ALTERNATE #1)**
3" = 1'-0"



A5 / A500 — **SILL DETAIL AT ALUMINUM STOREFRONT**
3" = 1'-0"

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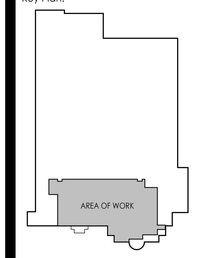
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Key Plan:



Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

EXTERIOR DETAILS

Scale: 3" = 1'-0"
Revision:**0**
Drawing No. **A500**

<<Pick location in Project Information>>
7/1/2024 3:53:53 PM

ORIGINAL SHEET - ARCH E1

DOOR SCHEDULE - INTERIOR

NO.	ROOM NAME	ROOM NO.	DOOR										FRAME						FIRE LABEL	HDWR SET	NO.	DOOR COMMENTS
			WIDTH	HEIGHT	THICK	NO. OF PANELS	PANEL WIDTHS: PANEL 1 WIDTH	PANEL WIDTHS: PANEL 2 WIDTH	TYPE	MAT'L	FIN	GLAZ	TYPE	MAT'L	FIN	DETAILS: HEAD	DETAILS: JAMB	DETAILS: SILL				
FIRST FLOOR																						
C100TA	WOMENS	C100TA	3'-0"	7'-0"	1 3/4"	1	3'-0"	0"	F	HM	PNT	-	1	HM	PNT	B3/A600	B2/A600		-	1	C100TA	
C100TB	MENS	C100TB	3'-0"	7'-0"	1 3/4"	1	3'-0"	0"	F	HM	PNT	-	1	HM	PNT	B3/A600	B2/A600		-	1	C100TB	
C1001-1	CORRIDOR	C100CB	5'-0"	7'-10"	1 3/4"	2	3'-0"	2'-0"	NLFR / NLFR	HM	PNT	1/4" TG	1	HM	PNT	B3/A600	B2/A600		45 MIN.	4	C1001-1	
C1001-2	PASSAGE	C100CD	5'-0"	7'-10"	1 3/4"	2	3'-0"	2'-0"	HG / HG	HM	PNT	1/4" TG	1	HM	PNT	B3/A600	B2/A600		-	4	C1001-2	
C1001-3	OPEN OFFICE	C1034	3'-0"	7'-10"	1 3/4"	1	3'-0"	0"	HG	HM	PNT	1/4" TG	3	HM	PNT	A4.B3/A600	A6.B2/A600		-	3	C1001-3	
C1001-4	OPEN OFFICE	C1035	3'-4"	7'-10"	1 3/4"	1	3'-4"	0"	HG	HM	PNT	1/4" TG	3	HM	PNT	A4.B3/A600	A6.B2/A600			3	C1001-4	
C1001B	OPEN LAB	C1001	3'-4"	7'-10"	1 3/4"	1	3'-4"	0"	HG	HM	PNT	1/4" TG	1	HM	PNT	B3/A600	B2/A600		-	2	C1001B	
C1001C	OPEN LAB	C1001	3'-4"	7'-10"	1 3/4"	1	3'-4"	0"	HG	HM	PNT	1/4" TG	1	HM	PNT	B3/A600	B2/A600		-	2	C1001C	
C1001CA	SUPPORT	C1001C	3'-4"	7'-10"	1 3/4"	1	3'-4"	0"	HG	HM	PNT	1/4" TG	1	HM	PNT	B3/A600	B2/A600		-	2	C1001CA	
C1001D	MICRO	C1001D	3'-0"	7'-10"	1 3/4"	1	3'-0"	0"	F	HM	PNT	-	1	HM	PNT	B3/A600	B2/A600		-	2A	C1001D	
C1001F	OPEN LAB	C1001	3'-0"	7'-10"	1 3/4"	1	3'-0"	0"	F	HM	PNT	-	1	HM	PNT	B3/A600	B2/A600		-	2A	C1001F	
C1001G	SUPPORT	C1001G	3'-0"	7'-10"	1 3/4"	1	3'-0"	0"	HG	HM	PNT	1/4" TG	1	HM	PNT	B3/A600	B2/A600		-	2A	C1001G	
C1001H	CELL CULTURE	C1001H	3'-4"	7'-10"	1 3/4"	1	3'-4"	0"	HG	HM	PNT	1/4" TG	1	HM	PNT	B3/A600	B2/A600		-	2	C1001H	
C1001L	COLD RM	C1001L	3'-0"	7'-0"	1 3/4"	1	3'-0"	0"	CR	MFR	MFR			HM	PNT	-	-		-	6	C1001L	COLD ROOM DOOR BY COLD ROOM VENDOR
C1001M	OPEN LAB	C1001	6'-0"	7'-10"	1 3/4"	2	3'-0"	3'-0"	F / F	HM	PNT	-	1	HM	PNT	B3/A600	B2/A600		-	5	C1001M	
C1001NA	STORAGE	C1001N	3'-0"	7'-10"	1 3/4"	1	3'-0"	0"	F	HM	PNT	-	1	HM	PNT	B3/A600	B2/A600		-	2A	C1001NA	
C1001P	CELL CULTURE	C1001P	3'-4"	7'-10"	1 3/4"	1	3'-4"	0"	HG	HM	PNT	1/4" TG	1	HM	PNT	B3/A600	B2/A600		-	2	C1001P	
C1001Q	SUPPORT	C1001Q	3'-0"	7'-10"	1 3/4"	1	3'-0"	0"	HG	HM	PNT	1/4" TG	1	HM	PNT	B3/A600	B2/A600		-	2	C1001Q	
C1001QA	SUPPORT	C1001QA	3'-0"	7'-10"	1 3/4"	1	3'-0"	0"	HG	HM	PNT	1/4" TG	1	HM	PNT	B3/A600	B2/A600		-	2	C1001QA	
C1001S	OPEN LAB	C1001	3'-4"	7'-10"	1 3/4"	1	3'-4"	0"	HG	HM	PNT	1/4" TG	1	HM	PNT	B3/A600	B2/A600		-	2	C1001S	
C1001T	MICROSCOPY	C1001T	3'-0"	7'-10"	1 3/4"	1	3'-0"	0"	HG	HM	PNT	1/4" TG	1	HM	PNT	B3/A600	B2/A600		-	2A	C1001T	
C1001U	SUPPORT	C1001U	3'-4"	7'-10"	1 3/4"	1	3'-4"	0"	HG	HM	PNT	1/4" TG	1	HM	PNT	B3/A600	B2/A600		-	2	C1001U	
C1001VA	SUPPORT	C1001VA	3'-0"	7'-10"	1 3/4"	1	3'-0"	0"	HG	HM	PNT	1/4" TG	1	HM	PNT	B3/A600	B2/A600		-	2A	C1001VA	
C1001VB	MICRO	C1001VB	3'-0"	7'-10"	1 3/4"	1	3'-0"	0"	F	HM	PNT	-	1	HM	PNT	B3/A600	B2/A600		-	2A	C1001VB	
C1001X	MICRO	C1001X	3'-0"	7'-10"	1 3/4"	1	3'-0"	0"	F	HM	PNT	-	1	HM	PNT	B3/A600	B2/A600		-	2A	C1001X	
C1032	CORRIDOR	C1000N	5'-0"	7'-10"	1 3/4"	2	3'-0"	2'-0"	NLFR / NLFR	HM	PNT	1/4" TG	1	HM	PNT	B3/A600	B2/A600		45 MIN.	4	C1032	

GENERAL NOTES - DOORS:

1. ALL DOORS TO BE 1 3/4" THICK (UON)
2. ALL STL FRAMES TO HAVE A 2" FACE DIMENSION UON. W/ 5/8" STOP. 3/4" STOP REQUIRED FOR FIRE RATED FRAMES.
3. STEEL FRAME DEPTHS INDICATED IN THE DETAILS ARE NOMINAL. PROVIDE STANDARD WIDTH FRAME WITH THROAT OPENING APPROPRIATE TO PARTITION TYPE.
4. COORDINATE WITH MECH DOCUMENTS FOR DOOR UNDERCUTS.
5. ALL LIGHTS IN DOORS TO HAVE SAFETY GLAZING (UON).
6. EXTERIOR DOORS TO HAVE TINTED GLAZING (UON) AND INTERIOR DOORS TO HAVE CLEAR GLAZING.
7. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATING FRAMES.
8. FLOOR MATERIAL CHANGES BETWEEN ROOMS TO OCCUR UNDER DOOR.
9. FIELD VERIFY DIMENSIONS OF EXISTING FRAMES TO REMAIN.
10. DOOR HARDWARE (CLOSERS, LEVERS, PANIC HARDWARE, ETC.) SHALL NOT CONFLICT WITH THE GLASS OR TRIM FOR THE LITE.
11. PAINTED DOORS/FRAMES ARE TO BE PT-3, EXCEPT WHERE DOOR/FRAME IS LOCATED ON PT-2 ACCENT WALL. IN THOSE LOCATIONS, DOOR/FRAME TO BE PAINTED PT-2.
12. REFER TO SPECIFICATIONS FOR DOOR HARDWARE SET INFORMATION.

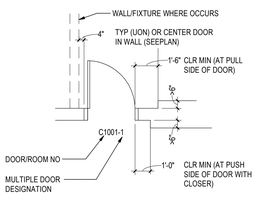
DOOR SCHEDULE ABBREVIATIONS:

HM: HOLLOW METAL
MFR: MANUFACTURER
PNT: PAINTED (REFER TO FINISH SCHEDULE)
TG: TEMPERED GLASS

DOOR SCHEDULE REMARKS:

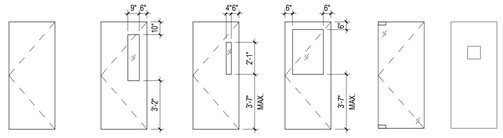
1. REFER TO ELECTRICAL DOCUMENTS FOR POWER FOR CARD KEY ACCESS, AUTOMATIC PUSH BUTTON DOORS AND ELEVATORS..
2. (NOT USED)
3. PROVIDE NEW HARDWARE FOR NEW DOOR (REFER HARDWARE SCHEDULE)
4. (NOT USED)

DOOR MARK KEY



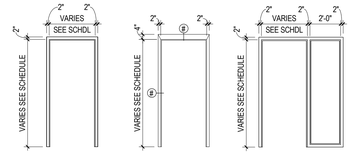
DOOR PANEL TYPES

NOTE: REFER TO DOOR SCHEDULES FOR DOOR HEIGHTS AND WIDTHS

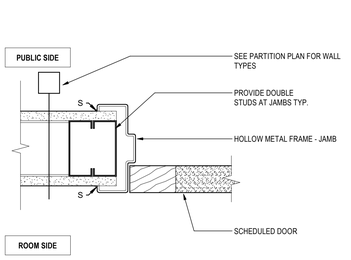


F FLUSH
NL NARROW LITE
NLFR NARROW LITE - FIRE RATED
HG HALF GLASS
GP FULL GLASS
CR COLD ROOM

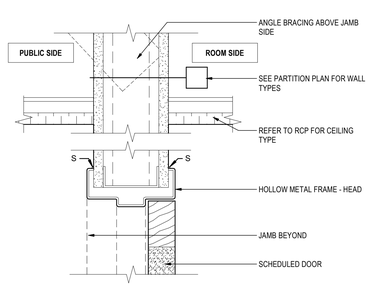
DOOR FRAME TYPES



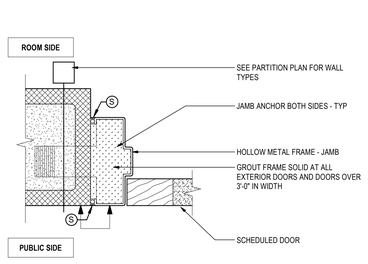
1 **2** **3**



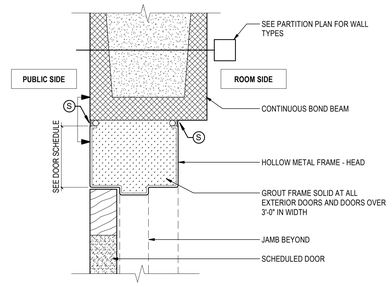
B2 A600 — **HM FRAME - DR JAMB @ GWB**
3" = 1'-0"



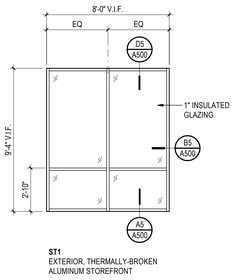
B3 A600 — **HM FRAME - DR HEAD @ GWB**
3" = 1'-0"



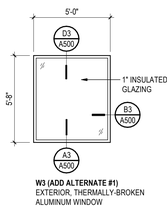
B4 A600 — **HM FRAME - DR JAMB @ CMU**
3" = 1'-0"



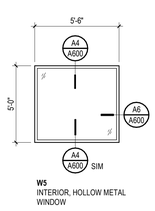
B6 A600 — **HM FRAME - DR HEAD @ CMU**
3" = 1'-0"



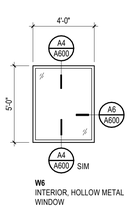
ST1
EXTERIOR, THERMALLY-BROKEN ALUMINUM STOREFRONT



W3 (ADD ALTERNATE #1)
EXTERIOR, THERMALLY-BROKEN ALUMINUM WINDOW

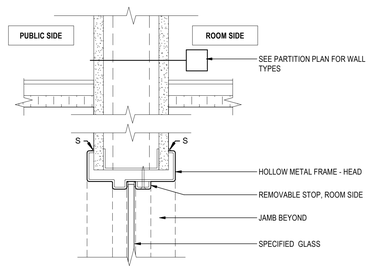


W5
INTERIOR, HOLLOW METAL WINDOW

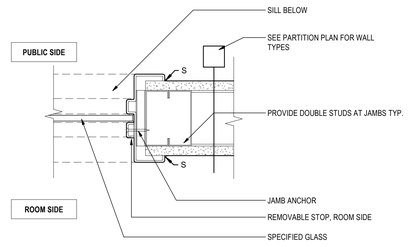


W6
INTERIOR, HOLLOW METAL WINDOW

A2 A600 — **WINDOW / STOREFRONT SCHEDULE**
1/4" = 1'-0"



A4 A600 — **HEAD DETAIL - INT HM FRAME WINDOW**
3" = 1'-0"



A6 A600 — **JAMB DETAIL - INT HM FRAME WINDOW**
3" = 1'-0"

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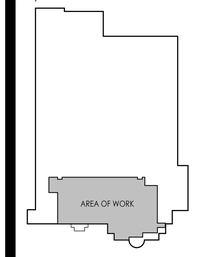
Consultant

0	ISSUED FOR PERMIT	2026.04.25
Issued/Revision		YYYY.MM.DD

Permit/Seal



Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

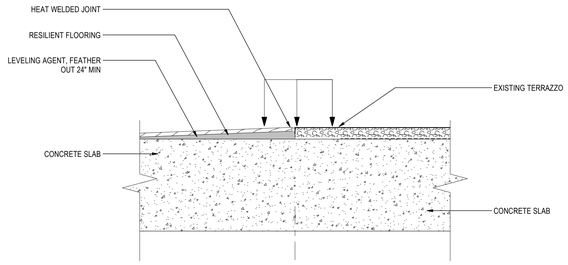
Project No.:225306010

DOOR SCHEDULE, DOOR AND FRAME AND DETAILS

Scale: As indicated
Revision:**0**
Drawing No. **A600**

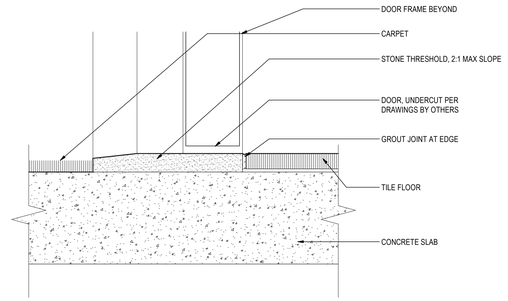
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ORIGINAL SHEET - ARCH E1



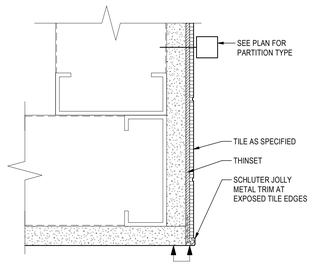
4 A641 FIN - TRANSITION - RESIL TO TERR.

6" = 1'-0"



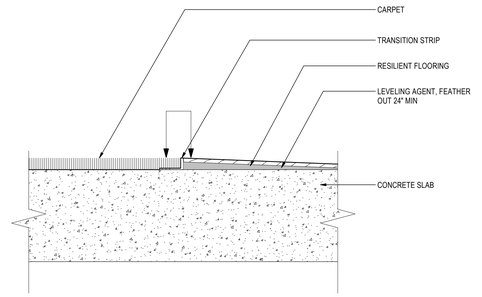
3 A641 FIN - TRANSITION - CPT TO TILE W/ MARBLE THRES

6" = 1'-0"



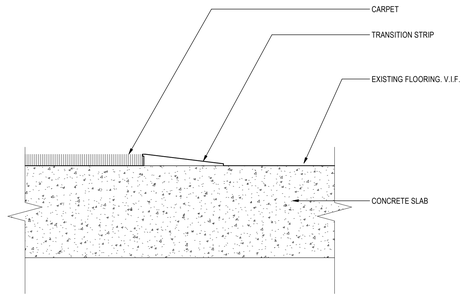
6 A641 FIN - TRANSITION - TILE CORNER

6" = 1'-0"



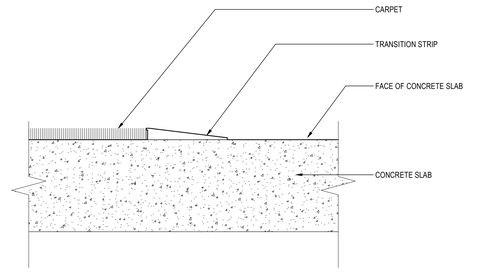
2 A641 FIN - TRANSITION - CPT TO RESIL

6" = 1'-0"



5 A641 FIN - TRANSITION - CPT TO EXISTING FLOOR

6" = 1'-0"



1 A641 FIN - TRANSITION - CPT TO CONC

6" = 1'-0"

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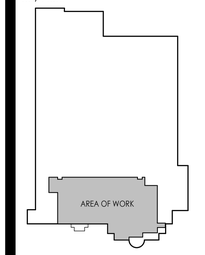
0	ISSUED FOR PERMIT	2026.04.25

Issued/Revision YYYY.MM.DD

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Key Plan:



Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

INTERIOR FINISH TRANSITIONS

Scale: 6" = 1'-0"

Revision: **0**

Drawing No. **A641**

ORIGINAL SHEET - ARCH E1

D1 LAB SYMBOLS
A700 — 1/4" = 1'-0"

PLAN / ELEV — PANEL MOUNT HW/CW SWING SPOUT MIXING FAUCET

PANEL MOUNT HIGH PURITY WATER SWING SPOUT FAUCET

PANEL MOUNT HW/CW SWING MIXING SPRAYER FAUCET

PLAN / ELEV — PANEL MOUNTED GAS KEYCOCK

TYPE A LAB EXHAUST

BSC TYPES

CHEMICAL FUME HOOD REFER TO ENLARGED LAB PLANS FOR SERVICES AND LAB DETAIL SHEETS FOR REQUIREMENTS (CFH, A OR B)

FD — FLOOR DRAIN

TALL STORAGE CABINET (TC) REFER TO LAB DETAIL SHEETS

FLAMMABLE STORAGE CABINET (FC)

SINK TYPE - REFER TO SINK DETAIL SHEETS

WIRE RACK SHELVING (WR)

WALL CABINET REFER TO LAB DETAIL SHEETS

MOVABLE ADJUSTABLE TABLE REFER TO TYP. OPEN LAB CASEWORK

TABLE - REFER TO LAB SHEET DETAIL

PEGBOARD WITH DRAIN THROUGH

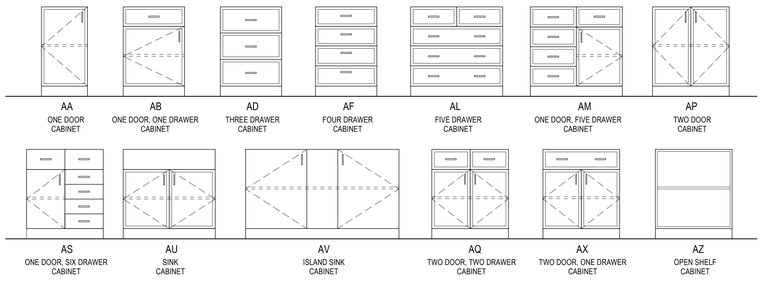
OVERHEAD SERVICE PANEL (OSP)

FIXED CASEWORK DESIGNATION REFER TO LAB DETAIL SHEETS

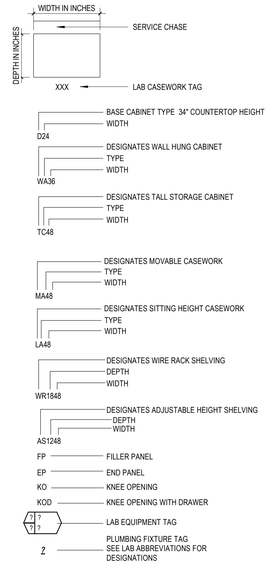
MOBILE CASEWORK REFER TO LAB DETAIL SHEETS

OWNER PROVIDED LAB EQUIPMENT SEE OWNER PROVIDED EQUIPMENT SCHEDULE

D3 STANDING/ADA HEIGHT CASEWORK
A700 — 1/2" = 1'-0"

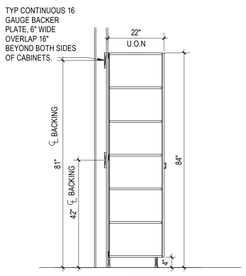


LAB KEY LEGEND:

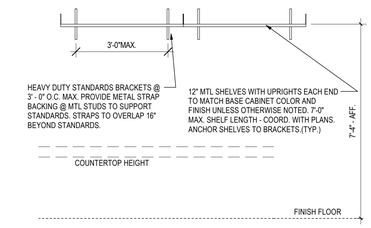


LAB CASEWORK GENERAL NOTES:

1. LAB CASEWORK TO BE PAINTED METAL, UNLESS OTHERWISE NOTED. CASEWORK IN COLD ROOM TO BE STAINLESS STEEL SEE A700 SERIES PLANS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
2. BENCHES AND TABLES SHALL BE 36" HIGH, UNLESS OTHERWISE NOTED. BENCHES AND TABLES NOTED TO BE ACCESSIBLE SHALL BE 34" HIGH.
3. BENCH / TABLE TOPS TO BE 1" THICK EPOXY RESIN, COLOR: DARK GRAY (UNLESS OTHERWISE NOTED).
4. WALL BENCH TOPS SHALL BE 30" DEEP INCLUDING BACKSPLASH, UNLESS OTHERWISE NOTED.
5. FUME HOOD TOP AND SINK COLOR TO MATCH CASEWORK COUNTERTOP COLOR.
6. BACK AND SIDE SPLASHES AND PIPE DROP CURBS TO BE 1" THICK AND 4" HIGH. MATERIAL TO MATCH COUNTERTOPS.
7. PROVIDE SIDESPLASH AT BENCH TOPS AGAINST FUME HOODS AND / OR ADJACENT WALLS.
8. OVERALL LENGTH OF BENCH TOPS SHALL BE DETERMINED BY CASEWORK SIZES AND DIMENSIONS AS INDICATED ON PLANS. TOPS SHALL OVERHANG 1/2" AT EACH END AND 1" FROM FRONT OF BASE CABINETS AND TABLES. WHEN OVERALL DIMENSIONS ARE GIVEN, 1/2" OVERHANG IS NOT INCLUDED.
9. CASEWORK, FUME HOODS AND ANY OTHER FURNISHINGS WITH EXPOSED-TO-VIEW BACKS AND SIDES SHALL BE FINISHED.
10. INSTALL CLOSURE PANELS BETWEEN BACK OF CABINETS OR HOODS AND WALLS AT EXPOSED ENDS AND BETWEEN BASE CABINETS AND / OR HOODS THAT ARE SET BACK TO BACK.
11. PENETRATIONS THROUGH BENCH TOP SHALL BE SEALED WITH 100% SILICONE BASE SEALANT.
12. BACKS OF COUNTERTOPS AND SPLASHES AGAINST WALLS SHALL BE SEALED TO THE WALL WITH 100% SILICONE BASE SEALANT. SEALANT COLOR TO MATCH COUNTER TOP OR BACKSPLASH COLOR.
13. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS BEFORE BEGINNING FABRICATION OF LAB EQUIPMENT OR FURNISHINGS / CASEWORK.
14. ARCHITECT WILL SELECT COLORS FOR COMPONENTS OF PROJECT INDICATED ON THESE DRAWINGS. COLOR SELECTION WILL BE FROM THE CASEWORK MANUFACTURER'S STANDARD COLOR LINE.
15. SAFETY SHOWER / EYEWASH UNITS SHALL COMPLY WITH ANSI AND ADA STANDARDS.
16. FOR LABORATORY SERVICE FITTING TYPES, LOCATIONS AND ORDER, SEE LABORATORY FURNISHINGS PLANS. THESE FITTINGS SHALL BE PROVIDED UNDER DIVISION 12.
17. WHERE FUME HOOD OCCURS ADJACENT TO VACUUM PUMP OR CORROSIVE STORAGE CABINETS, RUN VENT PIPE (IN PIPE CHASE) TO FUME HOOD AND EXTEND 4" ABOVE FUME HOOD WORK SURFACE BEHIND BAFFLE.
18. LOCATION OF EQUIPMENT, SUCH AS FUME HOODS, PROJECTORS, BRACES OR ANY OTHER ITEMS THAT MAY INTERFERE WITH LIGHTING, STRUCTURAL OR MECHANICAL SYSTEMS, SHALL BE CAREFULLY COORDINATED. NOTIFY OWNER'S REPRESENTATIVE OF DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.
19. UNLESS OTHERWISE NOTED, MISCELLANEOUS CHANNELS, BRACKETS AND FITTINGS INDICATED ON LABORATORY FURNISHINGS DRAWINGS SHALL BE SUPPLIED, INSTALLED AND PAINTED TO MATCH CASEWORK.
20. CONTRACTOR SHALL EXAMINE LABORATORY FURNISHINGS PLANS AND COORDINATE WITH REFLECTED CEILING PLANS FOR PROPER PIPE DROP ENCLOSURE HEIGHTS AND LOCATIONS.
21. CABINET TYPES, CONFIGURATIONS, AND DIMENSIONS SHALL BE AS DETAILED ON CASEWORK ELEVATIONS. CASEWORK CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS.
22. REFER TO ENLARGED PLANS FOR SINKS, SERVICE FIXTURES AND ACCESSORIES PROVIDED IN COUNTERTOPS.
23. SINKS SHALL BE MODIFIED EPOXY RESIN TO MATCH COUNTERTOPS WITH SIZE AS INDICATED IN THE LEGEND, UNLESS OTHERWISE NOTED. SINKS SHALL BE IN SINK BASE UNITS.
24. PROVIDE RESILIENT BASE AT CASEWORK.
25. INSTALL CLOSURE PANELS BETWEEN BACK OF SINK CABINETS AND BASE CABINETS AT ISLANDS.
26. COORDINATE WITH OWNER TO ESTABLISH LOCATION FOR STORAGE OF REMOVABLE SHELVES, OWNER SALVAGED ITEMS OR EQUIPMENT.
27. CONTRACTOR TO COORDINATE MEP SERVICES WITH SERVICE UMBILICALS AND COLUMN ENCLOSURES, SEE MEP DOCUMENTS FOR ADDITIONAL INFORMATION.
28. REFER TO A700 SERIES DRAWINGS FOR TYPICAL LAB CASEWORK TYPES, PLANS, AND ELEVATIONS.



TALL STORAGE

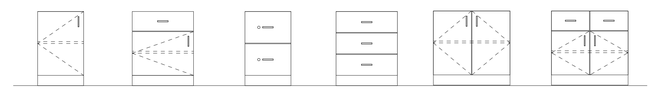


D4 SITTING HEIGHT CASEWORK
A700 — 1/2" = 1'-0"

NOTE: MOBILE CASEWORK TO HAVE 1" THICK EPOXY RESIN TOPS TO MATCH BENCH / TABLE TOPS (UNLESS OTHERWISE NOTED)

NOTE: LMXX DESIGNATES SITTING HEIGHT MOBILE CASEWORK. (HEIGHT TO BE COORDINATED WITH ADJUSTABLE TABLE MANUFACTURER)





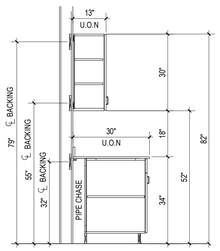
LAB ABBREVIATIONS:

XX	FUTURE GAS
AS	ADJUSTABLE SHELVES
CA	COMPRESSED AIR
CG	CORNER GUARD
CLG	CEILING
CO2	CARBON DIOXIDE
CR	CARD READER
CW	COLD WATER
DI	DEIONIZED WATER
EW	EYE WASH
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
HB	HOSE BIBB
H/C	HOT WATER / COLD WATER
HW	HOT WATER
NG	METHANE
N2	GASEOUS NITROGEN
PCW	PROCESS CHILLED WATER
OSP	OVERHEAD SERVICE PANEL
SH	SPRAY HOSE
SEW	SAFETY EYEWASH
SS	SAFETY SHOWER
SS/EW	SAFETY SHOWER AND EYEWASH COMBINATION UNIT
SIM	SIMILAR
SMR	SURFACE MOUNTED RACEWAY
VAC	VACUUM
WP	WATER PROOF

THE PROCEEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS.

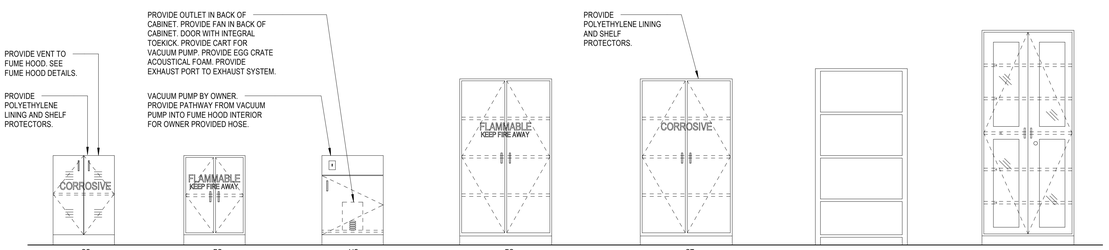
C2 HIGH WALL MOUNTED ADJ SHELVES
A700 — 1/2" = 1'-0"

C4 MOBILE CASEWORK
A700 — 1/2" = 1'-0"



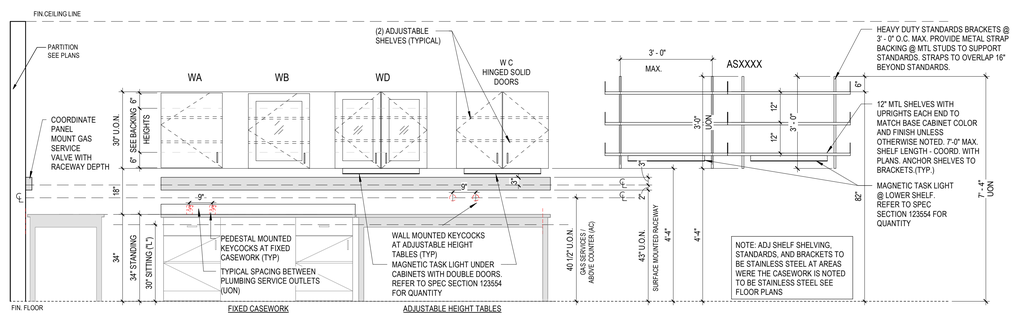
STANDING HEIGHT

PROVIDE SIMILIAR BACKING AT SITTING HEIGHT BENCHES REVISE BASED ON 30" COUNTERTOP HEIGHT INSTEAD OF 34" SHOWN

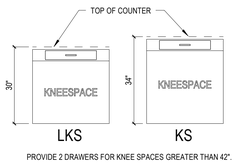


B1 BACKING HEIGHTS
A700 — 1/2" = 1'-0"

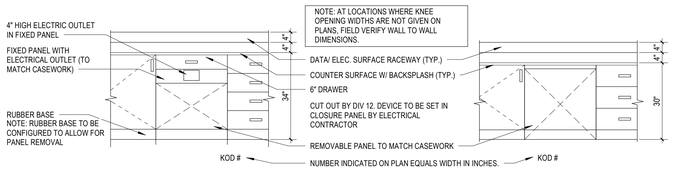
B2 SPECIALTY CASEWORK
A700 — 1/2" = 1'-0"



A1 CASEWORK - WALL MOUNTED HEIGHTS
A700 — 1/2" = 1'-0"



PROVIDE 2 DRAWERS FOR KNEE SPACES GREATER THAN 42".



A4 KNEESPACE
A700 — 1/2" = 1'-0"

LAB COLOR LEGEND

GC PROVIDED (BLACK LINES)

OWNER FURNISHED, OWNER INSTALLED (BLUE LINES)

EXISTING

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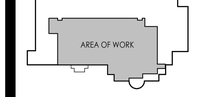
Consultant

0	ISSUED FOR PERMIT	2026.04.25
Issued/Revision		YYYY.MM.DD

Permit/Seal

REGISTERED ARCHITECT MICHAEL STEVEN MARTIN 041042 STATE OF NEW YORK

Key Plan:



Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

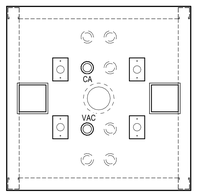
Project No.:225306010

LAB CASEWORK, GENERAL NOTES

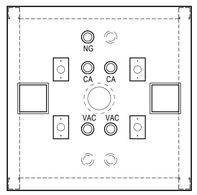
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Revision: 0
Drawing No. **A700**

•Plot location in Project Information•
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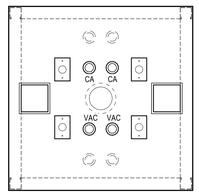
ORIGINAL SHEET - ARCH E1



[OUP1]
OVERHEAD UTILITY PANEL
PLAN VIEW

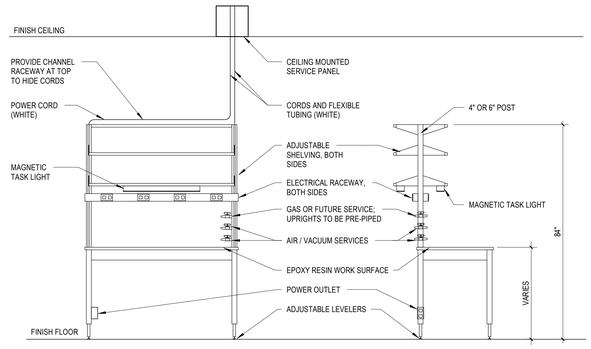


[OUP2]
OVERHEAD UTILITY PANEL
PLAN VIEW



[OUP3]
OVERHEAD UTILITY PANEL
PLAN VIEW

D1 OVERHEAD UTILITY PANELS TYPES (OUP#)
A701 — 1 1/2" = 1'-0"

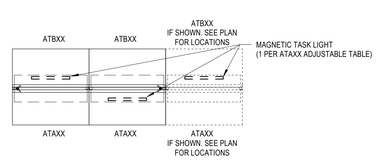


MOVABLE ADAPTABLE TABLE W/ UPRIGHTS (ATA) - FRONT ELEVATION

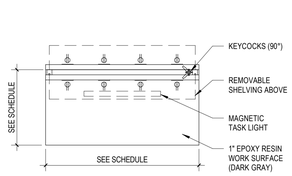
MOVABLE ADAPTABLE TABLE W/ UPRIGHTS (ATA) - SIDE ELEVATION

NOTES:

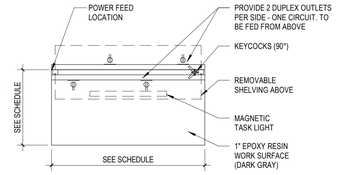
1. SEE TABLE KEY LEGEND AND MOVABLE TABLE TYPE SCHEDULE FOR REQUIREMENTS OF THE TABLE AND TYPES
2. DRAWINGS SHOWN FOR REFERENCE, ACTUAL DESIGN BASED ON PERFORMANCE SPECIFICATION DRAWINGS INDICATE CRITERIA, ACCESSORIES AND GENERAL LOCATIONS



TYPICAL BENCH LAYOUT (NOT TO SCALE)

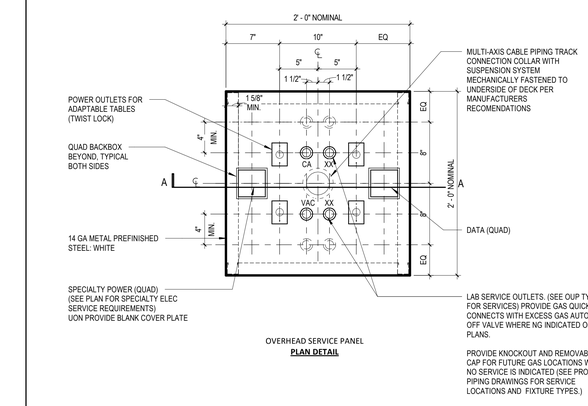


MOVABLE ADAPTABLE TABLE W/ UPRIGHTS (ATA72) - PLAN



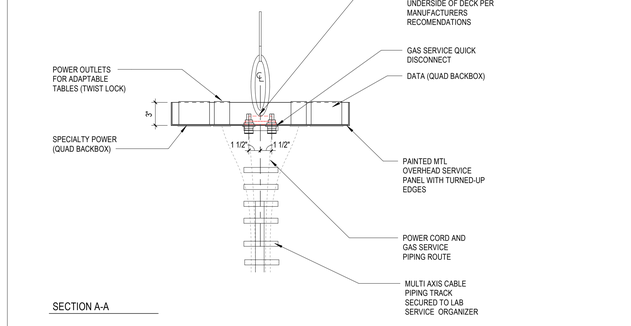
MOVABLE ADAPTABLE TABLE W/ UPRIGHTS (ATA60, ATA54) - PLAN

D3 MOVABLE ADAPTABLE TABLE W/ UPRIGHTS- PLAN, ELEVATION AND SECTION - TYP. (ATA)
A701 — 1/2" = 1'-0"



OVERHEAD SERVICE PANEL
PLAN DETAIL

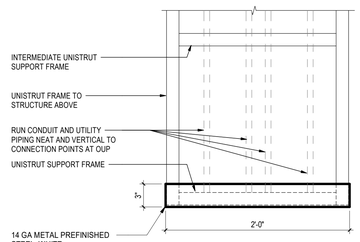
B1 TYPICAL OUP PLAN DETAIL
A701 — 1 1/2" = 1'-0"



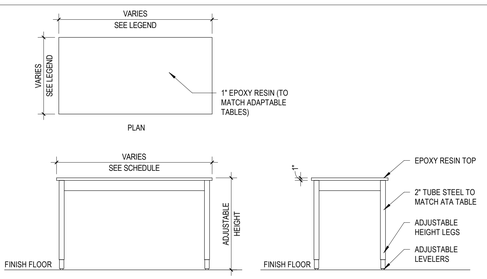
SECTION A-A

NOTE:
1. VACUUM CEILING PANEL CONNECTIONS TO BE SUPPLIED BY VACUUM SYSTEM MANUFACTURER (VACUU-LAN OR EQUAL). COORDINATE INSTALLATION.
2. PROVIDE BLANK COVER PLATES FOR UNUSED POWER / DATA LOCATIONS (SEE ELECTRICAL AND DATA DRAWINGS).
3. SEE OUP SUPPORT DETAIL FOR UNISTRUT FRAME

B2 TYPICAL OUP SECTION DETAIL
A701 — 1 1/2" = 1'-0"

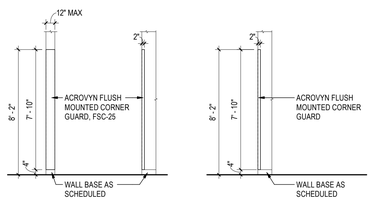


[OUP#]
OVERHEAD UTILITY PANEL
ELEVATION VIEW



ATB TABLE FRAME TO MATCH ATA TABLE CONSTRUCTION

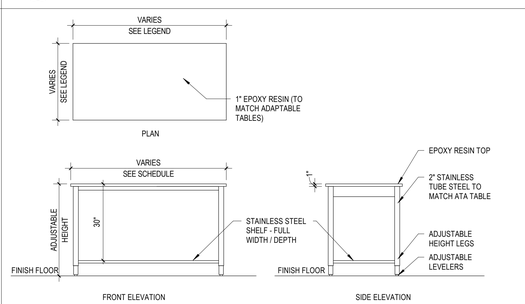
C4 TYPICAL OUP SUPPORT DETAIL
A701 — 1 1/2" = 1'-0"



CG-1
END CAP CORNER GUARD

CG-2
TYPICAL CORNER GUARD

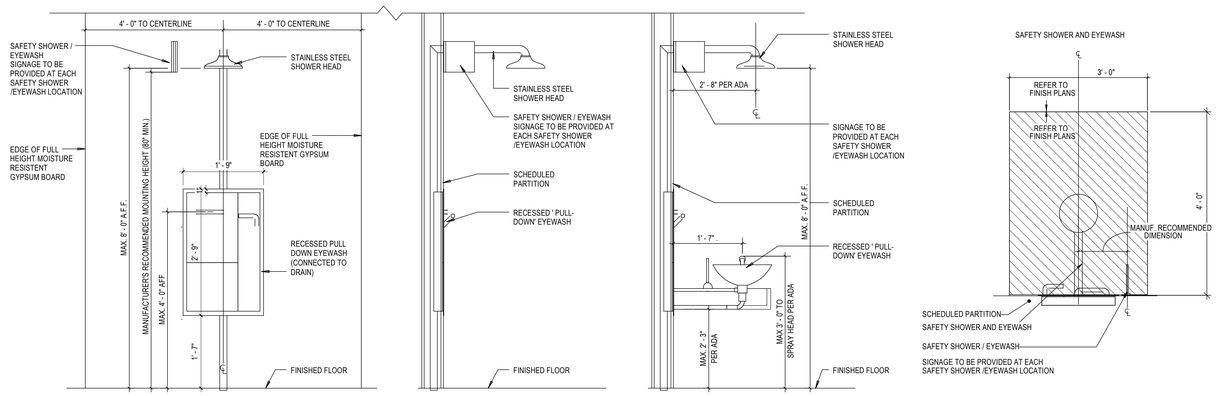
B4 CORNER GUARD (CG-1 AND CG-2)
A701 — 1/4" = 1'-0"



STAINLESS STEEL SHELF - FULL WIDTH / DEPTH

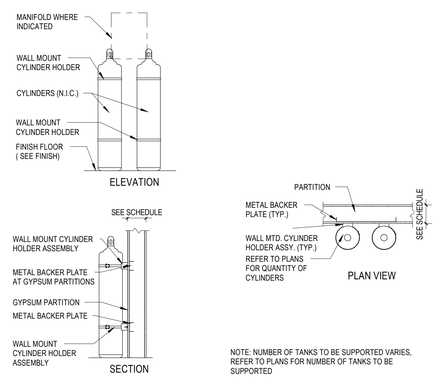
ATC TABLE FRAME, SURFACES AND COMPONENTS TO BE STAINLESS STEEL

B5 MOVABLE ADAPTABLE HEIGHT TABLE (ATC)
A701 — 1/2" = 1'-0"



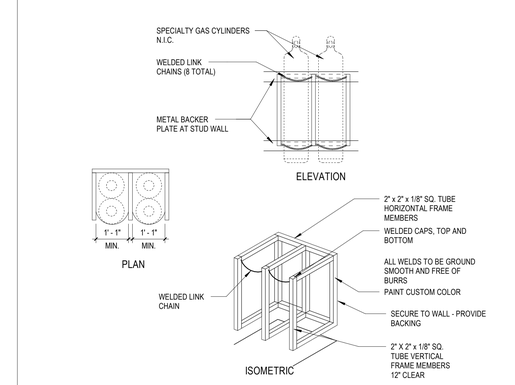
NOTE: REFER TO A400 SHEETS FOR FINISH LEGEND AND FINISH NOTES.

A1 SAFETY SHOWER/EYEWASH - TYPE1 (RECESSED) - TYPICAL U.O.N.
A701 — 3/4" = 1'-0"



NOTE: NUMBER OF TANKS TO BE SUPPORTED VARIES, REFER TO PLANS FOR NUMBER OF TANKS TO BE SUPPORTED

A4 WALL MOUNTED CYLINDER DETAIL
A701 — 1/2" = 1'-0"



A5 GAS CYLINDER STORAGE RACK
A701 — 1/2" = 1'-0"

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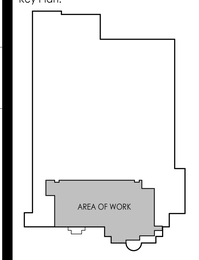
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0	ISSUED FOR PERMIT	2024.04.25
Issued/Revision		YYYY.MM.DD

Permit/Seal



Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

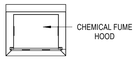
Project No.:225306010

LAB DETAILS

Scale: As indicated
Revision: **0**
Drawing No. **A701**

xRef location in Project Information
7/1/2024 3:53:38 PM

ORIGINAL SHEET - ARCH E1



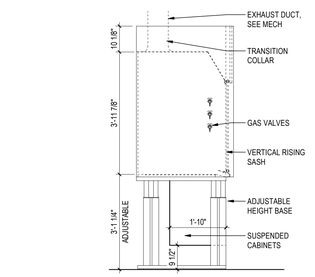
SEE SCHEDULE AND ENLARGED PLANS FOR SERVICE REQUIEMENTS

FUME HOOD NOTES

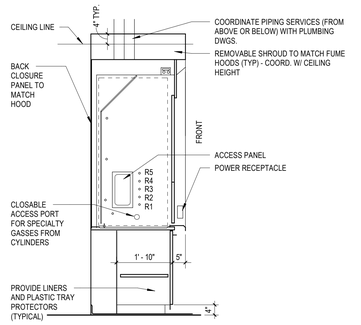
1. PROVIDE S.S LATTICE BARS IN HOOD
2. SEE ENLARGED LAB PLANS FOR CASEWORK LOCATED UNDER HOODS. REFER TO HOOD ELEVATIONS IF NOT INDICATED ON PLANS.

LAB FUME HOOD SCHEDULE

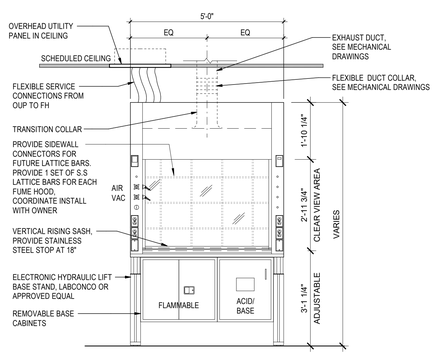
REV. #	RM #	RM. NAME	TYPE MARK	L1	L2	L3	L4	L5	LEFT CUPSINK	R1	R2	R3	R4	R5	RIGHT CUPSINK	COMMENTS
FIRST FLOOR																
	C1001E	FH ALCOVE	FH-1	¤ : CA	¤ : VAC	¤ : None	¤ : None	¤ : None	No	¤ : CW	¤ : None	¤ : None	¤ : None	¤ : None	Yes	
	C1001J	FH ALCOVE	FH-1	¤ : CA	¤ : VAC	· : None	· : None	· : None	No	¤ : CW	· : None	· : None	· : None	· : None	Yes	
	C1001J	FH ALCOVE	FH-2	¤ : CA	¤ : VAC	· : None	· : None	· : None	No	¤ : CW	· : None	· : None	· : None	· : None	Yes	
	C1001W	FH ALCOVE	FH-2	¤ : CA	¤ : VAC	· : None	· : None	· : None	No	¤ : CW	· : None	· : None	· : None	· : None	Yes	



SIDE ELEVATION



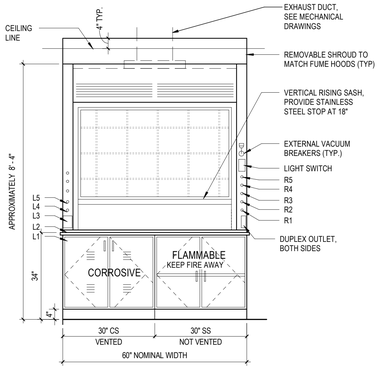
SIDE ELEVATION



NOTES:

- CORROSIVE CABINETS BELOW FH'S TO BE VENTED - PROVIDE VENT PIPE INSIDE FUME HOOD STRUCTURE (HIDDEN) AND VENT BEHIND THE TOP BAFFLE PER CORNELL STANDARD (TYP)
- ADA HOOD LOCATIONS SERVICES AND CONTROLS LOCATED IN ADA HOODS SHALL BE LOCATED TO ACCOMMODATE THE BUILDING CODE SIDE AND FRONT REACH ACCESSIBILITY REQUIREMENTS.
- NOTE: ALL CONTROLS ON ADA HOODS SHALL COMPLY WITH ACCESSIBILITY CODE SECTIONS.

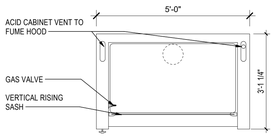
FRONT ELEVATION



NOTES:

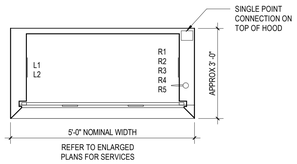
- CORROSIVE CABINETS BELOW FH'S TO BE VENTED - PROVIDE VENT PIPE INSIDE FUME HOOD STRUCTURE (HIDDEN) AND VENT BEHIND THE TOP BAFFLE PER CORNELL STANDARD (TYP)
- ADA HOOD LOCATIONS SERVICES AND CONTROLS LOCATED IN ADA HOODS SHALL BE LOCATED TO ACCOMMODATE THE BUILDING CODE SIDE AND FRONT REACH ACCESSIBILITY REQUIREMENTS.
- NOTE: ALL CONTROLS ON ADA HOODS SHALL COMPLY WITH ACCESSIBILITY CODE SECTIONS.

FRONT ELEVATION



PLAN VIEW

BASIS-OF-DESIGN: MOTT SAFEGUARD FUME HOOD



PLAN VIEW

BASIS-OF-DESIGN: MOTT SAFEGUARD FUME HOOD

A5 A702 **(FH-2) 5' FUME HOOD W/ ADJ BASE** 1/2" = 1'-0"

A6 A702 **(FH-1) 5' FUME HOOD** 1/2" = 1'-0"

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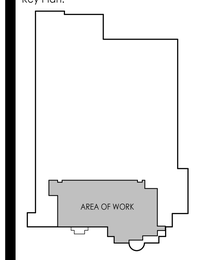
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Issued/Revision		YYYY.MM.DD

Permit/Seal



Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

FUME HOOD SCHEDULE AND DETAILS

Scale: 1/2" = 1'-0"
Revision: **0**
Drawing No. **A702**

•file location in Project Information
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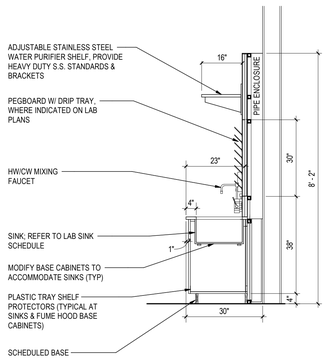
ORIGINAL SHEET - ARCH E1

LAB SINK NOTES

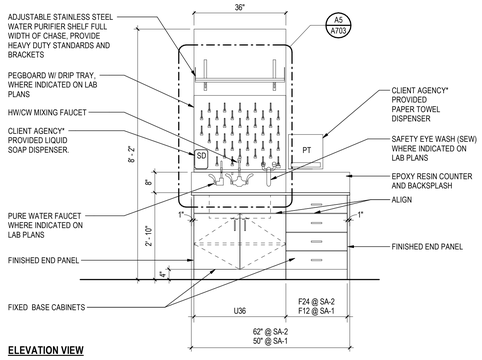
*CONTRACTOR TO COORDINATE THE PURCHASING OF PAPER TOWEL DISPENSERS AND SOAP DISPENSERS THROUGH CORNELL BUILDING CARE. CONTRACTOR TO INSTALL.

LAB SINK SCHEDULE

TYPE	SIZE (LxWxD)	MATERIAL	LOCATION
SK-1	25x15x10	EPOXY	NON-ACCESSIBLE SINKS
SK-2	25x15x5	EPOXY	ACCESSIBLE SINKS



SECTION VIEW



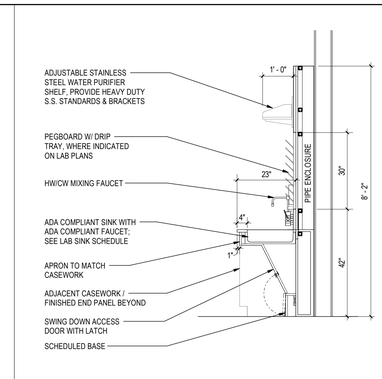
ELEVATION VIEW

PLAN VIEW

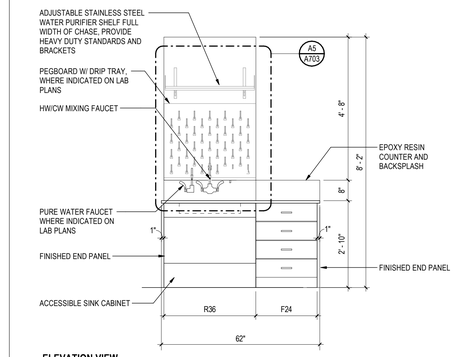
NOTE: SEE LAB SINK SCHEDULE FOR SINK SIZE AND TYPE

B2 A703 SA-1 AND SA-2 SINK ASSEMBLIES

1/2" = 1'-0"



SECTION VIEW



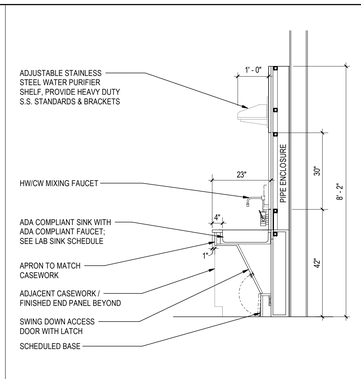
ELEVATION VIEW

PLAN VIEW

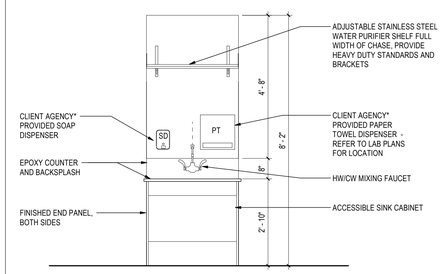
NOTE: SEE LAB SINK SCHEDULE FOR SINK SIZE AND TYPE

B3 A703 SA-3 ADA SINK ASSEMBLY

1/2" = 1'-0"



SECTION VIEW



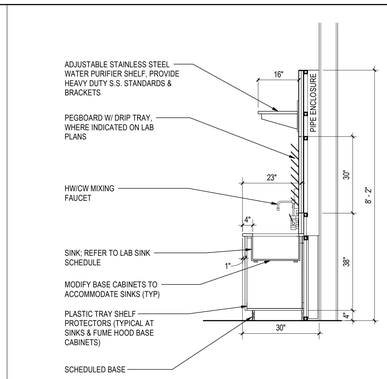
ELEVATION VIEW

PLAN VIEW

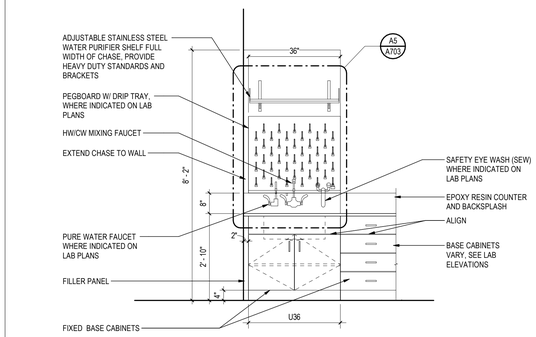
NOTE: SEE LAB PLANS FOR SOAP AND PAPER TOWEL LOCATIONS

B4 A703 SA-4 SINK ASSEMBLY

1/2" = 1'-0"



SECTION VIEW



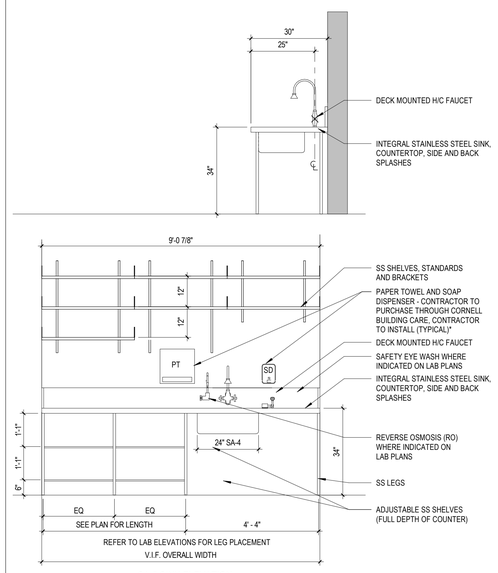
ELEVATION VIEW

PLAN VIEW

NOTE: SEE LAB SINK SCHEDULE FOR SINK SIZE AND TYPE

B5 A703 SA-5 SINK ASSEMBLY

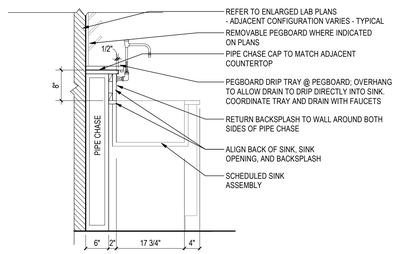
1/2" = 1'-0"



SA-5 SINK ELEVATION
SINK INTEGRAL STAINLESS STEEL 24"W x 18"L x 10"D

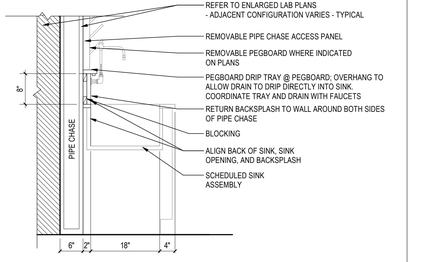
A2 A703 COLD ROOM SINK (SA-6)

1/2" = 1'-0"



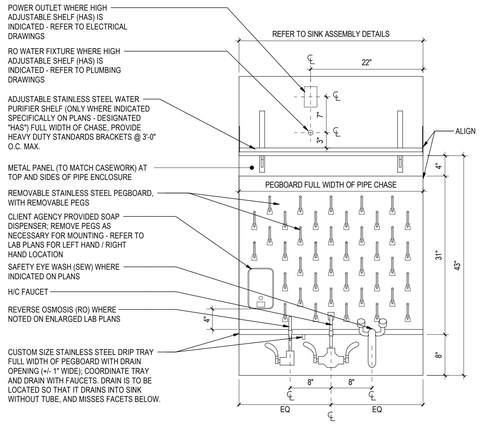
A3 A703 SHORT CHASE - TYPE .1

3/4" = 1'-0"



A4 A703 FULL HEIGHT CHASE - TYPE .2

3/4" = 1'-0"



A5 A703 PIPE ENCLOSURE DETAIL

1" = 1'-0"

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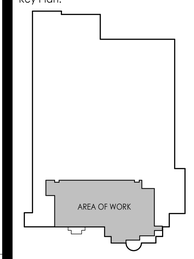
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Issued/Revision		YYYY.MM.DD

Permit/Seal



Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

LAB SINK DETAILS

Scale: As indicated
Revision: **0**
Drawing No. **A703**

<Pick location in Project Information>
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ORIGINAL SHEET - ARCH E1



1 A710 FIRST FLOOR LAB PLAN

1/8" = 1'-0"

LEGEND

- GC PROVIDED (BLACK LINES)
- OWNER FURNISHED, OWNER INSTALLED (BLUE LINES)
- EXISTING

LAB PLAN GENERAL NOTES

A. HORIZONTAL AND VERTICAL DIMENSIONS ON LAB CASEWORK PLANS, SECTIONS, ELEVATIONS AND DETAILS ARE FROM FINISH FACE OF EXISTING AND NEW CONSTRUCTION UNLESS OTHERWISE NOTED. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO SHOP DRAWINGS, ORDER AND FABRICATION OF ALL CASEWORK.

B. AT ALL LAB CASEWORK COORDINATE AND PROVIDE FOR ALL COMPONENTS AND WORK AS REQUIRED FOR A COMPLETE AND FINISHED INSTALLATION, INCLUDING BUT NOT LIMITED TO BLOCKING, ANCHORAGES, FILLER AND CLOSURE PANELS AND ACCOMODATIONS FOR THE PROPER INSTALLATION OF EQUIPMENT, HARDWARE, WORK OF OTHER TRADES AND ITEMS FURNISHED BY THE OWNER.

C. SCRIBE ALL COUNTERTOPS, BACKSPLASHES AND FILLER PANELS TO FIT TIGHT AGAINST NEW AND EXISTING CONSTRUCTION.

D. ALL CABINETRY BENEATH COUNTERTOPS, INCLUDING BUT NOT LIMITED TO BASE CABINETS, APRONS, END PANELS AND FILLER PANELS, SHALL BE RECESSED 1-INCH FROM THE LEADING EDGE OF COUNTERTOP ABOVE, UNLESS OTHERWISE NOTED.

E. PROVIDE LOCKS AT ALL ALL CABINETRY DOORS AND DRAWER FRONTS AS DIRECTED BY OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING KEYING REQUIREMENTS WITH OWNER, INCLUDING BUT NOT LIMITED TO KEYING SYSTEM ORGANIZATION, MASTER OR GRANDMASTERED KEYING CAPABILITIES AND QUANTITIES OF KEYS REQUIRED.

F. PROVIDE WALL BASE AT THE BASE OF ALL EXPOSED OR SEMI-EXPOSED CABINETRY FRONTS, SIDES, KICKSPACES AND RECESSES, INCLUDING BUT NOT LIMITED TO END PANELS, FILLER PANELS, ETC. BASE TO RUN FULL HEIGHT OF KICKSPACE; PROVIDE OVERSIZED BASE AND TRIM AS REQUIRED WHERE FLOOR IS NOT LEVEL AND/OR STRAIGHT.

G. PROVIDE CONCEALED FASTENERS AND ANCHORAGES AT ALL CABINETRY UNLESS OTHERWISE NOTED OR APPROVED IN WRITING BY THE ARCHITECT.

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Permit/Seal

REGISTERED ARCHITECT MICHAEL STEVEN [illegible] 041042 STATE OF NEW YORK

Key Plan:

Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

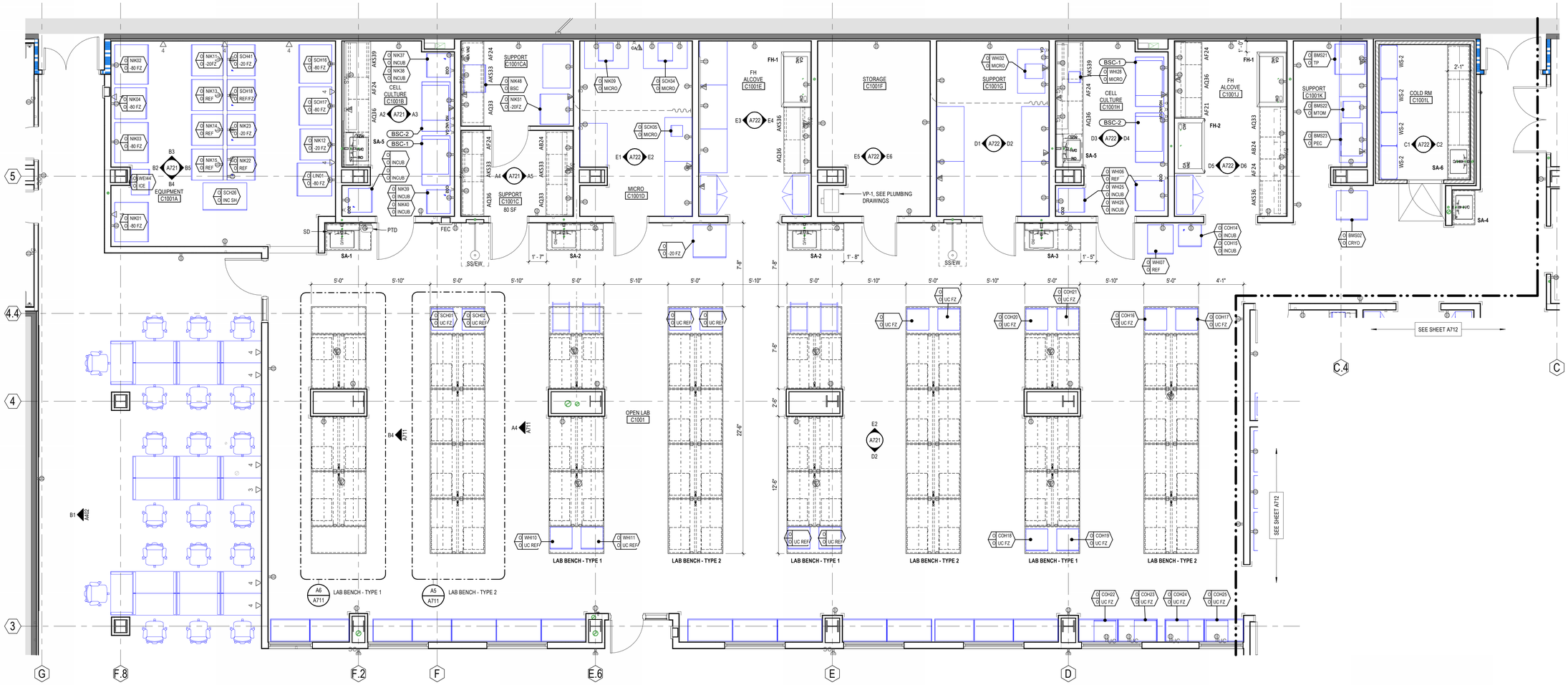
FIRST FLOOR LAB PLAN

Scale: As indicated

Revision: **0**

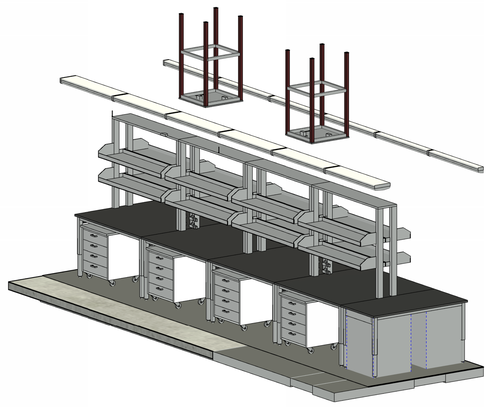
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ORIGINAL SHEET - ARCH E1

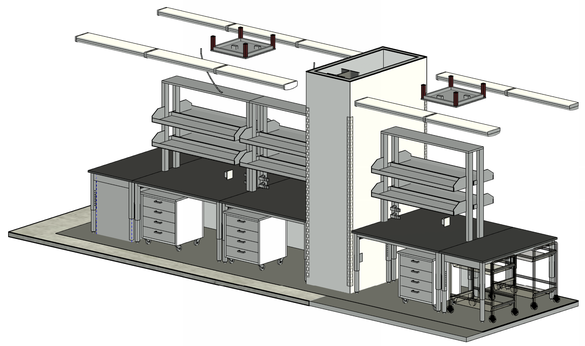


C1 A711 ENLARGED LABORATORY PLAN

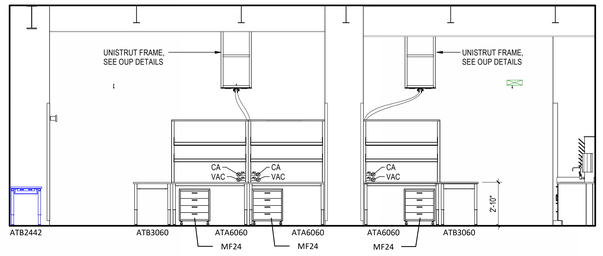
1/4" = 1'-0"



A1 A711 AXON - OPEN LAB - BENCH TYPE 2

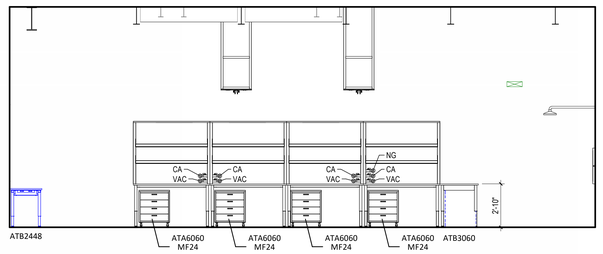


A2 A711 AXON - OPEN LAB - BENCH TYPE 1



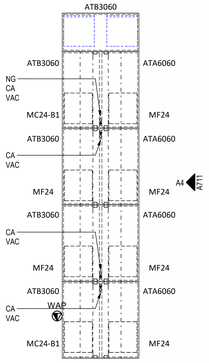
B4 A711 ELEVATION AT OPEN LAB - BENCH TYPE 1

1/4" = 1'-0"



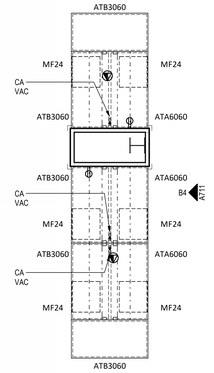
A4 A711 ELEVATION AT OPEN LAB - BENCH TYPE 2

1/4" = 1'-0"



A5 A711 PLAN AT OPEN LAB - BENCH TYPE 2

1/4" = 1'-0"



A6 A711 PLAN AT OPEN LAB - BENCH TYPE 1

1/4" = 1'-0"

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REGISTERED ARCHITECT MICHAEL STEVEN [illegible] 041042 STATE OF NEW YORK

Key Plan:

Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

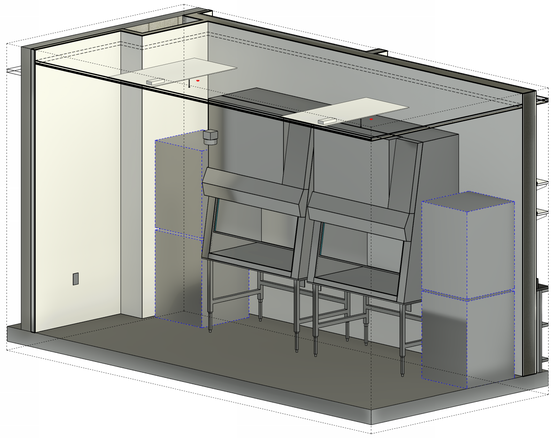
Project No.:225306010

ENLARGED LABORATORY PLANS

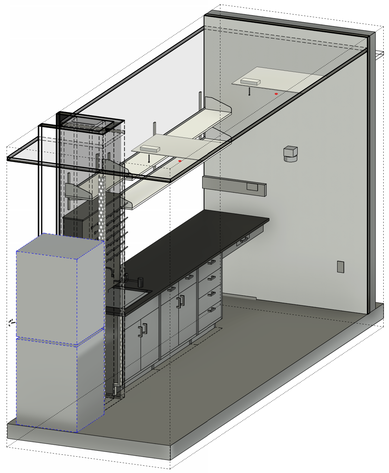
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Revision: **0**
Drawing No. **A711**

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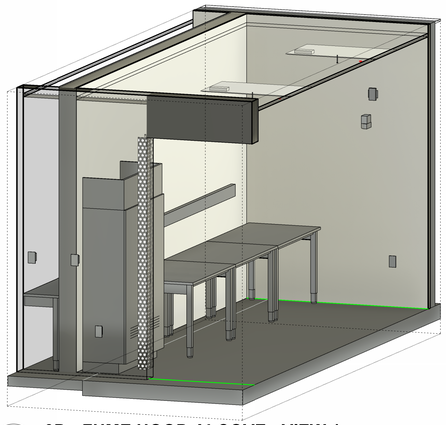
ORIGINAL SHEET - ARCH E1



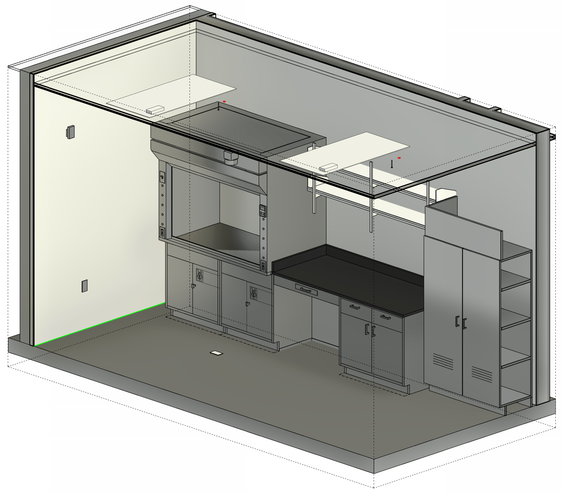
7 A712 **3D - CELL CULTURE - VIEW 1**



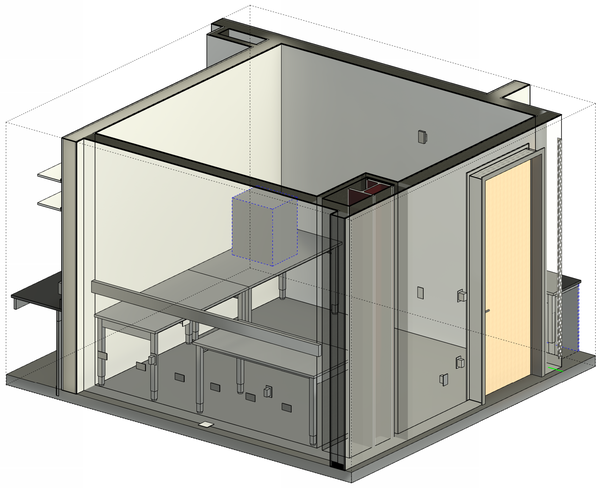
6 A712 **3D - CELL CULTURE - VIEW 2**



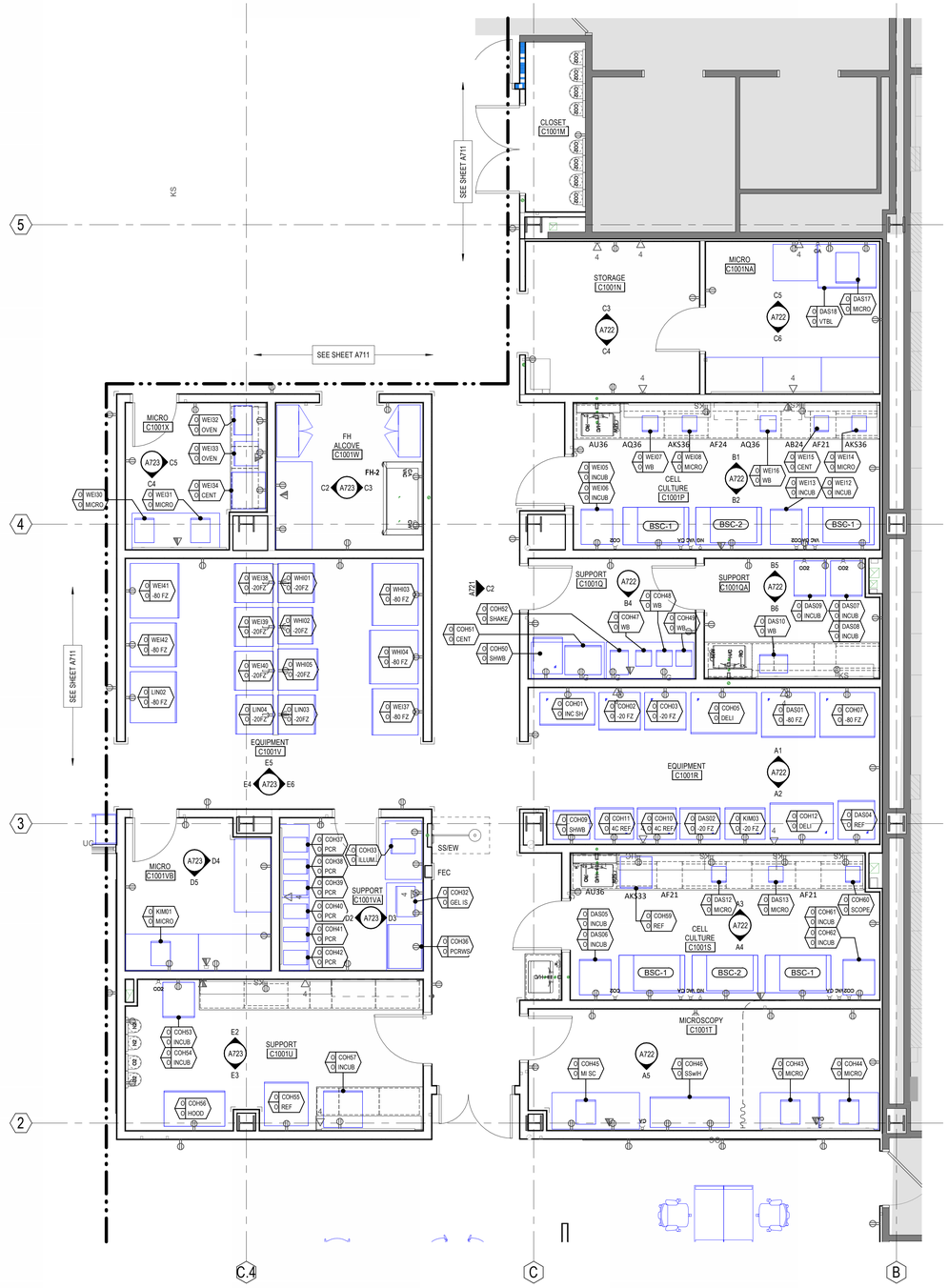
5 A712 **3D - FUME HOOD ALCOVE - VIEW 1**



4 A712 **3D - FUME HOOD ALCOVE - VIEW 2**



3 A712 **3D - MICROSCOPY - VIEW 1**



1 A712 **ENLARGED LABORATORY PLAN**
1/4" = 1'-0"

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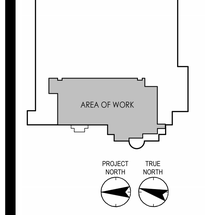
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Key Plan:



Cornell University.

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SUCF#: 191030

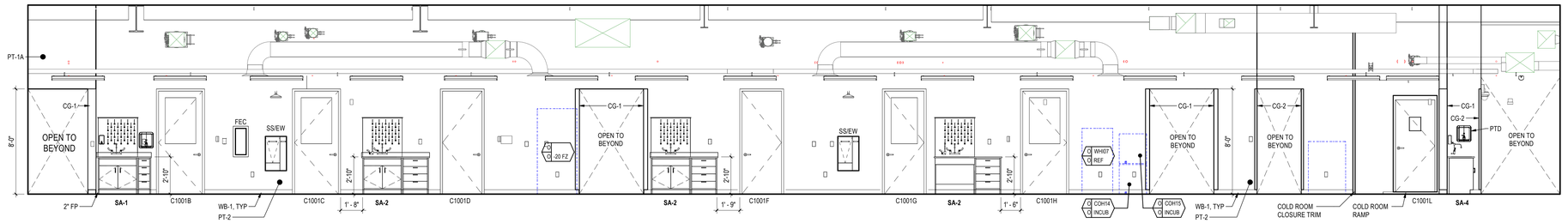
Project No.:225306010

ENLARGED LABORATORY PLANS

Scale: 1/4" = 1'-0"
Revision:**0**
Drawing No. **A712**

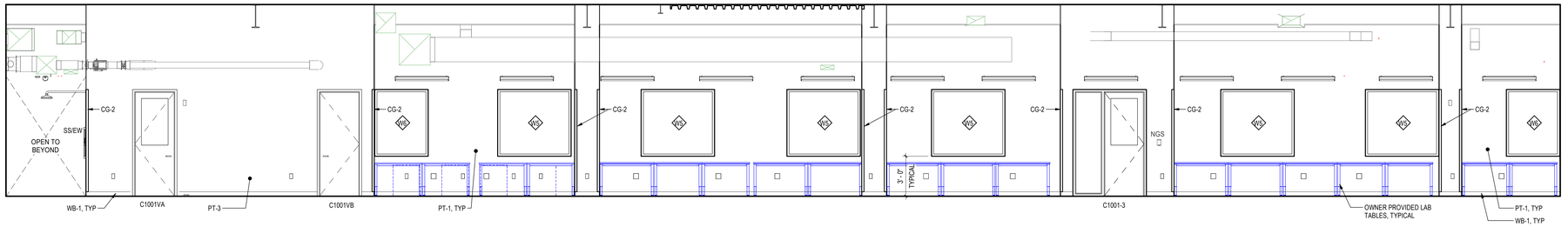
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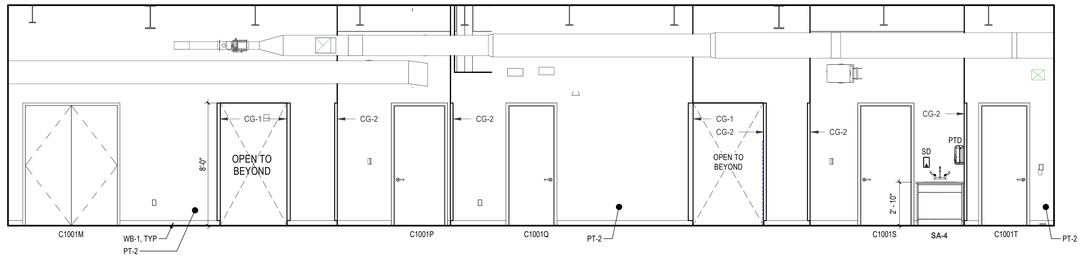
E2 / A721 C1001 - EAST ELEVATION

1/4" = 1'-0"



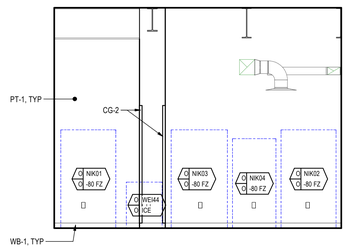
D2 / A721 C1001 - WEST ELEVATION

1/4" = 1'-0"



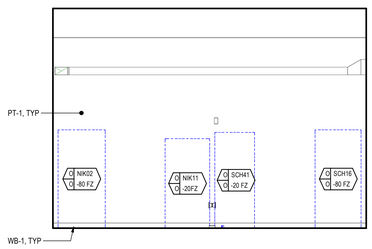
C2 / A721 C1001 - SOUTH

1/4" = 1'-0"



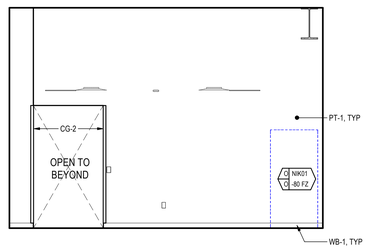
B2 / A721 C1001A - NORTH

1/4" = 1'-0"



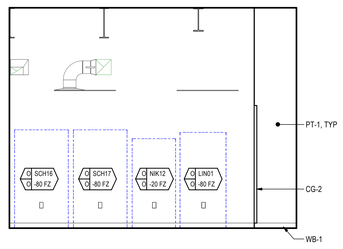
B3 / A721 C1001A - EAST

1/4" = 1'-0"



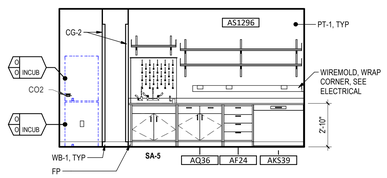
B4 / A721 C1001A - SOUTH

1/4" = 1'-0"



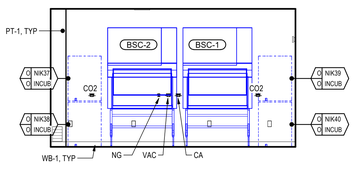
B5 / A721 C1001A - WEST

1/4" = 1'-0"



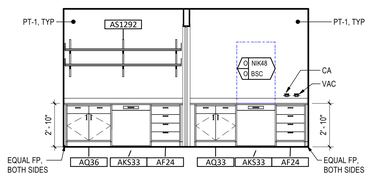
A2 / A721 C1001B - NORTH

1/4" = 1'-0"



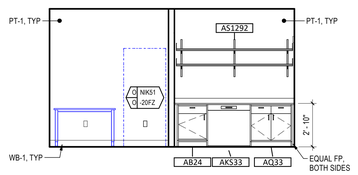
A3 / A721 C1001B - SOUTH

1/4" = 1'-0"



A4 / A721 C1001C AND C100CA - NORTH

1/4" = 1'-0"



A5 / A721 C1001C AND C100CA - SOUTH

1/4" = 1'-0"

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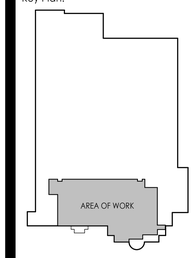
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Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

ENLARGED LABORATORY ELEVATIONS

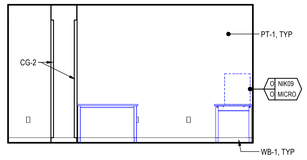
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Revision:**0**

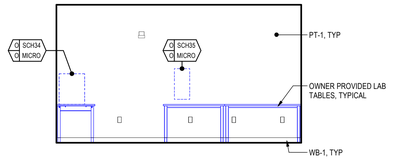
Drawing No. **A721**

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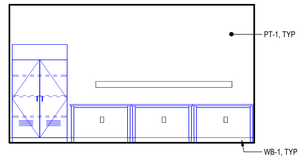
ORIGINAL SHEET - ARCH E1



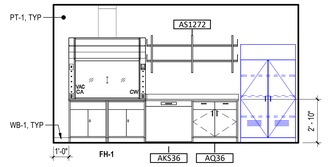
E1 A722 **C1001D - NORTH**
1/4" = 1'-0"



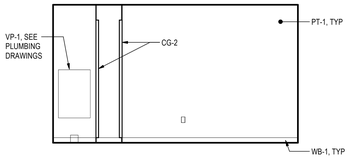
E2 A722 **C1001D - SOUTH**
1/4" = 1'-0"



E3 A722 **C1001E - NORTH**
1/4" = 1'-0"



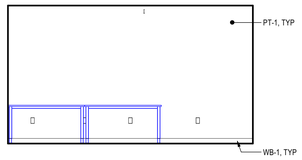
E4 A722 **C1001E - SOUTH**
1/4" = 1'-0"



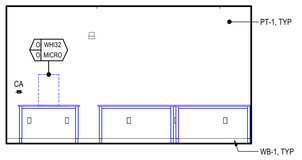
E5 A722 **C1001F - NORTH**
1/4" = 1'-0"



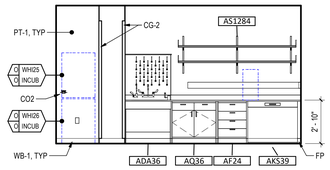
E6 A722 **C1001F - SOUTH**
1/4" = 1'-0"



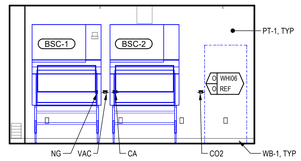
D1 A722 **C1001G - NORTH**
1/4" = 1'-0"



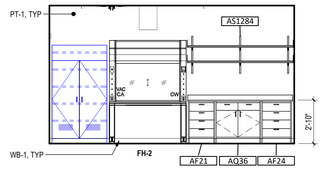
D2 A722 **C1001G - SOUTH**
1/4" = 1'-0"



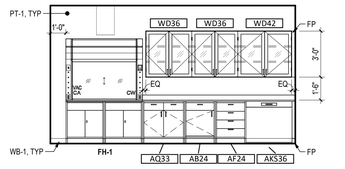
D3 A722 **C1001H - NORTH**
1/4" = 1'-0"



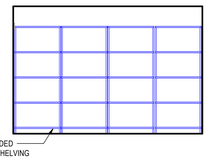
D4 A722 **C1001H - SOUTH**
1/4" = 1'-0"



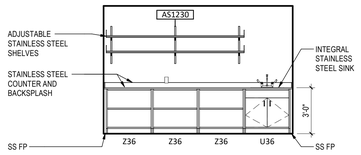
D5 A722 **C1001J - NORTH**
1/4" = 1'-0"



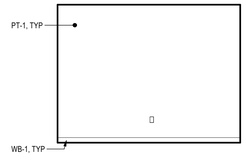
D6 A722 **C1001J - SOUTH**
1/4" = 1'-0"



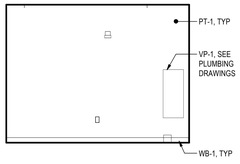
C1 A722 **C1010 - NORTH**
1/4" = 1'-0"



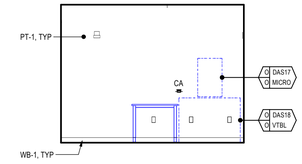
C2 A722 **C1010 - SOUTH**
1/4" = 1'-0"



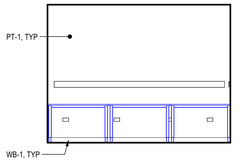
C3 A722 **C1001N - EAST**
1/4" = 1'-0"



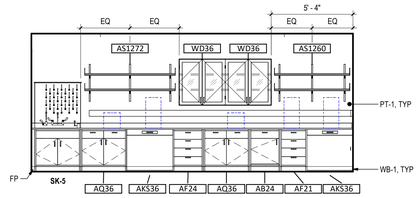
C4 A722 **C1001N - WEST**
1/4" = 1'-0"



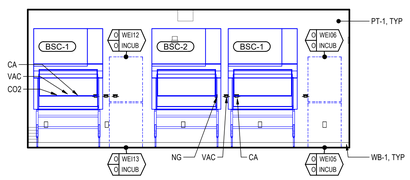
C5 A722 **C1001NA - EAST**
1/4" = 1'-0"



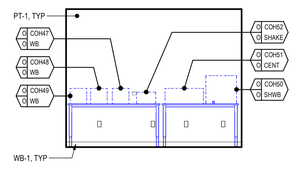
C6 A722 **C1001NA - WEST**
1/4" = 1'-0"



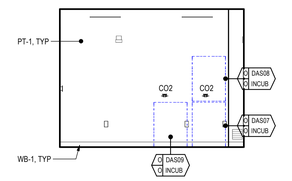
B1 A722 **C1001P - EAST**
1/4" = 1'-0"



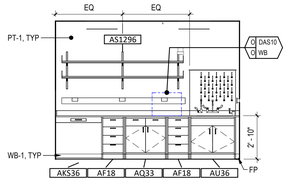
B2 A722 **C1001P - WEST**
1/4" = 1'-0"



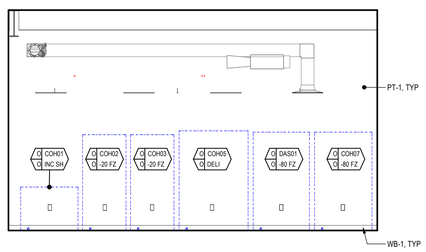
B4 A722 **C1001Q - WEST**
1/4" = 1'-0"



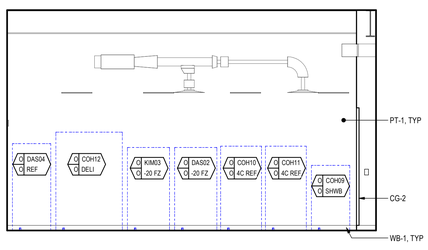
B5 A722 **C1001QA - EAST**
1/4" = 1'-0"



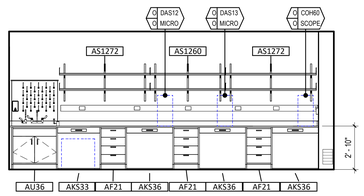
B6 A722 **C1001QA - WEST**
1/4" = 1'-0"



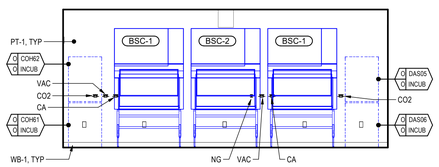
A1 A722 **C1001R - EAST**
1/4" = 1'-0"



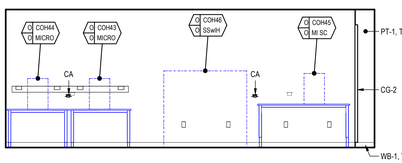
A2 A722 **C1001R - WEST**
1/4" = 1'-0"



A3 A722 **C1001S - EAST**
1/4" = 1'-0"



A4 A722 **C1001S - WEST**
1/4" = 1'-0"



A5 A722 **C1001T - WEST**
1/4" = 1'-0"



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Issued/Revision		YYYY.MM.DD

Permit/Seal



Key Plan:

Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

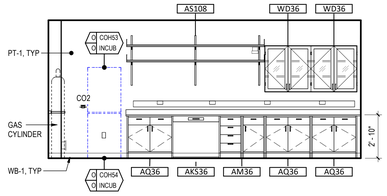
Project No.:225306010

ENLARGED LABORATORY ELEVATIONS

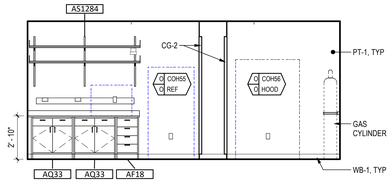
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Revision: **0**
Drawing No. **A722**

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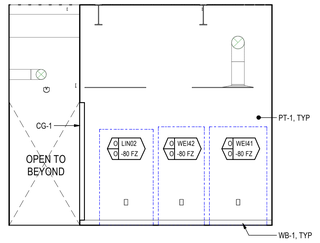
ORIGINAL SHEET - ARCH E1



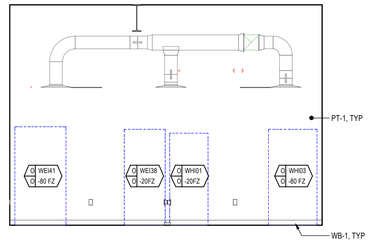
E2 A723 **C1001U - EAST**
1/4" = 1'-0"



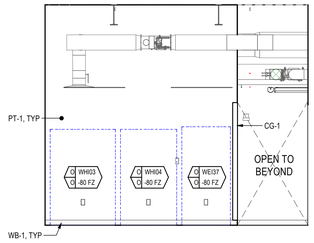
E3 A723 **C1001U - WEST**
1/4" = 1'-0"



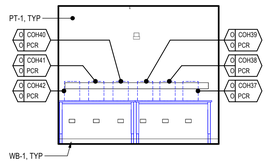
E4 A723 **C1001V - NORTH**
1/4" = 1'-0"



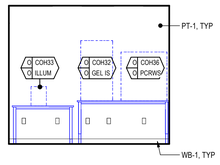
E5 A723 **C1001V - EAST**
1/4" = 1'-0"



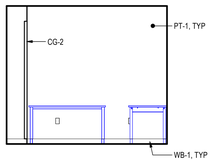
E6 A723 **C1001V - WEST**
1/4" = 1'-0"



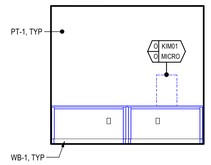
D2 A723 **C1001VA - NORTH**
1/4" = 1'-0"



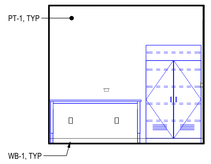
D3 A723 **C1001VA - SOUTH**
1/4" = 1'-0"



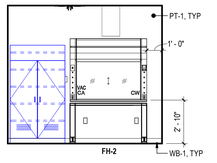
D4 A723 **C1001VB - WEST**
1/4" = 1'-0"



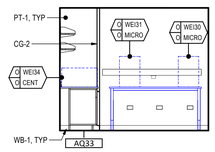
D5 A723 **C1001VB - SOUTH**
1/4" = 1'-0"



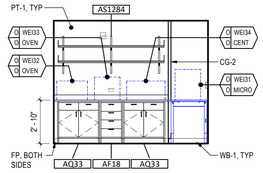
C2 A723 **C1001W - NORTH**
1/4" = 1'-0"



C3 A723 **C1001W - SOUTH**
1/4" = 1'-0"



C4 A723 **C1001X - WEST**
1/4" = 1'-0"



C5 A723 **C1001X - SOUTH**
1/4" = 1'-0"

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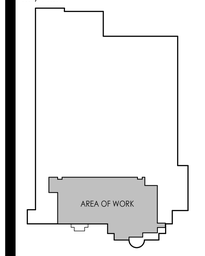
0	ISSUED FOR PERMIT	2026.04.25

Issued/Revision YYYY.MM.DD

Permit/Seal



Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

ENLARGED LABORATORY ELEVATIONS

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

Revision:**0**

Drawing No. **A723**

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7/7/2026 3:23:23 PM

ORIGINAL SHEET - ARCH E1

Lab Equipment List - PI Name: SHARED DEPT EQUIPMENT

Date: 06/18/24

Equip Number by PI	Swing Space Room	Existing Room Number or "New"	Equip Name	Manufacturer	Model Number	Width (inches)	Depth (inches)	Height (inches)	Weight (pounds)	Mounting	Comments	P - Domestic Cold Water	P - Domestic Hot Water	P - Floor Drain	P - RO Water (PVDF pipe)	P - Gaseous Nitrogen	P - Vacuum	P - Compressed Air	P - CO2	P - O2 Oxygen	P - Lab Natural Gas	PP - Comments	HEAT	HVAC - Supply Air	HVAC - Exhaust Air	HVAC - Exhaust Point (hard duct, snorkle, canopy)	HVAC - Hard Connection	HVAC - Flex Connection	HVAC - Comments	HVAC - Chilled water CHWS & R	HVAC - Condenser CWS & R	HVAC - Piping Comments	POWER	VOLTAGE	AMPERAGE (NAME PLATE)	PHASE/WIRE	CORD AND PLUG ATTACHMENT	EMERGECY POWER REQ'D	UPS REQUIRED (User Provided)	Electric - Comments	HAZARDOUS GAS (MONITORING...	TELE / DATA REQUIREMENTS	General Equipment Comments (shielding, vibration sensitive, noise concern, light sensitive, adjacent to, clearances, tct)
BMS01	Not included	E9007N	Cryostat (Floor)	Microm	HM 525	28	36	45		Floor	Schimenti Data Sheet																																	
BMS02	C1001	T3-010	Cryostat (Floor)	Leica	CM1950	34	32	48		Floor	White Data Sheet																																	
BMS03	Not included	T3-010C	ScanScope CS2	Leica Biosystems	Aperio CS2	13	21	19		Bench	Common Equip Excel																																	
BMS04	Not included	T3-010C	ScanScope FL	Leica Biosystems		13	21	19																																		
BMS05	Not included	T3-010C	ScanScope CS0	Leica Biosystems		13	21	19																																		
BMS06	Not included	T3-010C	Slide Image Analyses Workstation																																							
BMS07	Not included	T3-012	Gel Imager + CPU	Biorad	ChemiDoc XR5						White Data Sheet																																	
BMS08	Not included	T3-012	Real-Time PCR	Biorad	CFX96						Common Equip Excel																																	
BMS09	Not included	T3-012	Fluorescent Cell Imager	Biorad	ZOE Fluorescent Cell Imager						White Data Sheet																																	
BMS10	Not included	T3-012	Invitrogen Qubit 4 Fluorometer	Thermo Fisher	Qubit 4 Fluorometer						Common Equip Excel																																	
BMS11	Not included	T3-012	Nanodrop Spectrophotmeter + CPU			6	10	4			White Data Sheet																																	
BMS12	Not included	T2-000	Spektrophotometer UV-Vis	Beckman	DU530	16	17	9			Common Equip Excel																									120V									
BMS13	Not included	T2-000	Shaker	Lab Line							Common Equip Excel																																	
BMS14	Not included	T2-010	Real Time PCR		AB 7500						Common Equip Excel																																	
BMS15	Not included	T2-010	Molecular Imager	Bio-Rad	VersaDoc Molecular Imager						Common Equip Excel																																	
BMS16	Not included	T2-010	Dyad Chassis PCR w/2 Alpha Units								Common Equip Excel																																	
BMS17	Not included	T4-011	Scintillation Counter	Beckmann	LS 6500						Need at both locations																																	
BMS18	Not included	T4-011	Ultra Centrifuge	Beckmann	L-90K						Need at both locations																																	
BMS19	Not included	T4-011	Microplate Reader	BioTek	Synergy2						Need at both locations																																	
BMS20	Not included	T4-011	Plate Spinner	Hermle							Need at both locations																																	
BMS21	C1001K	T5-007	Tissue Processor	Leica TP1020	Leica TP1020	33	33	30			Common Equip Excel																																	
BMS22	C1001K	T5-007	Rotary Microtome	Leica RM2125	Leica RM2125	18	19	11			Common Equip Excel																																	
BMS23	C1001K	T5-007	Paraffin Embedding Center	Leica EG1160	Leica EG1160	36	23	13			Common Equip Excel																																	
BMS24	C1001N	T5-007	Cryostat	Micron	HM525	25	30	47			Common Equip Excel																																	
BMS25	Not included	T5-007	In-Vivo Macro Imaging	Olympus	OV100						Common Equip Excel																																	
BMS26	Not included	T5-007	Fluorescence Steroscope	Leica	MZ FLIII						Common Equip Excel																																	
BMS27	Not included	T600CA	Emergency -80C Freezer								Common Equip Excel																																	
BMS28	Not included	T600CA	Emergency -80C Freezer								Common Equip Excel																																	
BMS29	Not included	T600CA	Emergency -20C Freezer								Common Equip Excel																																	

Lab Equipment List - PI Name: Cohen, Paula

Date: 06/18/2024

Equip Number by PI	Swing Space Room	Existing Room Number or "New"	Equip Name	Manufacturer	Model Number	Width (inches)	Depth (inches)	Height (inches)	Weight (pounds)	Mounting	Comments	P - Domestic Cold Water	P - Domestic Hot Water	P - Drain / Floor Drain	P - RO Water	P - N2 Gaseous Nitrogen	P - Vacuum	P - Compressed Air	P - CO2 Carbon Dioxide	P - O2 Oxygen	P - Lab Natural Gas	PP - Comments	HEAT	HVAC - Supply Air	HVAC - Exhaust Air	HVAC - Exhaust Point (hard duct,...	HVAC - Hard Connection	HVAC - Flex Connection	HVAC - Comments	HVAC - Chilled water CHWS & R	HVAC - Condenser CWS & R	HVAC - Piping Comments	POWER	VOLTAGE	AMPERAGE (NAME PLATE)	PHASE/WIRE	CORD AND PLUG ATTACHMENT (Y/N) (Provide plug configuration in comments column)	EMERGECY POWER REQ'D (Limited Availability)	UPS REQUIRED (User Provided, No Central System)	Electric - Comments	HAZARDOUS GAS MONITORING...	TELE / DATA REQUIREMENTS	General Equipment Comments (shielding, vibration sensitive, noise concern, light sensitive, adjacent to, clearances, etc)
COH01	C1001R	Corridor	Incubator Shaker	Brunswick Scientific	Shaker	45	27	34		Floor																								120V									
COH02	C1001R	Corridor	-20C Freezer			34	31	75		Floor																																	
COH03	C1001R	Corridor	-20C Freezer			34	31	75		Floor																																	
COH04	Not included	Corridor	-20C Freezer			34	31	75		Floor	can be stored offsite																																	
COH05	C1001R	Corridor	2-door Deli Cooler	VWR		54	34	78		Floor																																	
COH06	Not included	Corridor	2-door Deli Cooler	VWR		54	34	78		Floor																																	
COH07	C1001R	Corridor	-80C Freezer	Fisher Scientific	IsoTemp IU2386A	45	37	77		Floor																								120V	16A			YES					
COH08	Not included	Corridor	-80C Freezer	Forma	900 Series #989	45	37	77		Floor	Archival																								208V	12A			YES					
COH09	C1001R	Corridor	Shaking Water Bath	New Brunswick	C76	30	24	51		Floor	Includes Table																																	
COH10	C1001R	T9007	+4C Fridge			32	26	66		Floor																								120V				YES					
COH11	C1001R	T9007	+4C Fridge			32	26	66		Floor																								120V									
COH12	C1001R	T9007	2-door Deli Fridge			52	30	77		Floor																								120V									
COH13	Not included	T9007	2-door Deli Fridge			52	30	77		Floor																								120V									
COH14	C1001	T9007	Incubator (no CO2)			25	24	27		Floor																																	
COH15	C1001	T9007	Incubator (no CO2)			25	24	27		COH14	Stacked on COH14																																	
COH16	C1001	T9007	Undercounter Freezer							Floor																																	
COH17	C1001	T9007	Undercounter Freezer							Floor																																	
COH18	C1001	T9007	Undercounter Freezer							Floor																																	
COH19	C1001	T9007	Undercounter Freezer							Floor																																	
COH20	C1001	T9007	Undercounter Freezer							Floor																																	
COH21	C1001	T9007	Undercounter Freezer							Floor																																	
COH22	C1001	T9007	Undercounter Freezer							Floor																																	
COH23	C1001	T9007	Undercounter Freezer							Floor																																	
COH24	C1001	T9007	Undercounter Freezer							Floor																																	
COH25	C1001	T9007	Undercounter Freezer							Floor																																	
COH26	Not included	T9007	Undercounter Freezer							Floor																																	
COH27	Not included	T9007	Undercounter Freezer							Floor																																	
COH28	Not included	T9007	Undercounter Freezer							Floor																																	
COH29	Not included	T9007	Undercounter Freezer							Floor																																	
COH30	Not included	T9007	Undercounter Fridge							Floor																																	
COH31	Not included	T9007	Undercounter Fridge							Floor																																	
COH32	C1001VA	T9007B	Gel Imaging System + CPU + (2) printers	Bio Rad	ChemiDoc XRS+	25	16	47		Bench	w/ CPU + (2) printers																																	
COH33	C1001VA	T9007B	Illuminator	Fisher Scientific						Bench	Needs space around (dirty)																																	
COH34	Not included	T9007B	Realtime PCR System			16	24	24		Bench	May get rid of if not using																																	
COH35	Not included	T9007B	Half-height fridge							Floor																																	
COH36	C1001VA	T9007B	PCR Workstation	Fisher Scientific		36	28	38		Bench																																	
COH37	C1001VA	T9007B	PCR Thermalcycler	Eppendorf		12	20	15		Bench																																	
COH38	C1001VA	T9007B	PCR Thermalcycler	Eppendorf		12	20	15		Bench																																	
COH39	C1001VA	T9007B	PCR Thermalcycler	Eppendorf		12	20	15		Bench																																	
COH40	C1001VA	T9007B	PCR Thermalcycler	Eppendorf		12	20	15		Bench																																	
COH41	C1001VA	T9007B	PCR Thermalcycler	Eppendorf		12	20	15		Bench																																	
COH42	C1001VA	T9007B	PCR Thermalcycler	Eppendorf		12	20	15		Bench																																	
COH43	C1001T	T9007D	Fluorescent Microscope w/ 4' table							Bench																																	
COH44	C1001T	T9007D	Fluorescent Microscope w/ 4' table							Bench																																	
COH45	C1001T	T9007D	Microinjection Scope w/ 72x30 table							Bench																																	
COH46	C1001T	T9007D	Specialty Scope w/ Incubator Hood							Floor	3' vibration table w/ 24"...																																	
COH47	C1001Q	T9007E	Water Bath							Bench																																	
COH48	C1001Q	T9007E	Water Bath							Bench																																	
COH49	C1001Q	T9007E	Water Bath							Bench																																	
COH50	C1001Q	T9007E	Shaking Incubator	New Brunswick	C24	24	30	22		Floor																																	
COH51	C1001Q	T9007E	Counter Centrifuge	Eppendorf	5810R	30	24	12		Bench																																	
COH52	C1001Q	T9007E	Counter Platform Shaker	New Brunswick	C2	15	20	9		Bench																																	
COH53	C1001U	Embryo	CO2 Incubator							Floor																	YES																
COH54	C1001U	Embryo	CO2 Incubator							COH52	Stacked on COH52																YES																
COH55	C1001U	Embryo	Standard Fridge / Freezer							Floor																																	
COH56	C1001U	Embryo	4' Special IVF Hood	IVF Workstation	L24	50	29	78		Floor																																	
COH57	C1001U	Embryo	Countertop Incubator	ESCO Medical Miri		30	32	7		Bench																																	
COH58	C1001S	T9007G	4' Biosafety Cabinet, Class II, Type A2							Floor							YES	YES																120V									
COH58	C1001S	T9007G	4' Biosafety Cabinet, Class II, Type A2							Floor							YES	YES																120V									
COH59	C1001S	T9007G	Half-height fridge							Floor																																	
COH60	C1001S	T9007G	Dissecting Scope							Bench																																	
COH61	C1001S	T9007G	CO2 Incubator							Floor																	YES																
COH62	C1001S	T9007G	CO2 Incubator							COH61	Stacked on COH61																YES																

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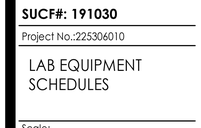
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Key Plan:

Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

LAB EQUIPMENT SCHEDULES

Scale:

Revision: **0**

Drawing No. **A731**

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7/7/2024 3:55:54 PM

ORIGINAL SHEET - ARCH E1

Lab Equipment List - PI Name: Das, Runi

Date: 06/11/2024

Equip Number by PI	Swing Space Room	Existing Room Number or "New"	Equip Name	Manufacturer	Model Number	Width (inches)	Depth (inches)	Height (inches)	Weight (pounds)	Mounting	Comments	P - Domestic Cold Water	P - Domestic Hot Water	P - Drain / Floor Drain	P - RO Water	P - N2 Gaseous Nitrogen	P - Vacuum	P - Compressed Air	P - CO2 Carbon Dioxide	P - O2 Oxygen	P - Lab Natural Gas	PP - Comments	HEAT	HVAC - Supply Air	HVAC - Exhaust Air	HVAC - Exhaust Point (hard duct,...	HVAC - Hard Connection	HVAC - Flex Connection	HVAC - Comments	HVAC - Chilled water CHWS & R	HVAC - Condenser CWS & R	HVAC - Piping Comments	POWER	VOLTAGE	AMPERAGE (NAME PLATE)	PHASE/WIRE	CORD AND PLUG ATTACHMENT (Y/N)	EMERGECY POWER REQ'D (Limited Availability)	UPS REQUIRED (User Provided, No Central System)	Electric - Comments	HAZARDOUS GAS MONITORING...	TELE / DATA REQUIREMENTS	General Equipment Comments (shielding, vibration sensitive, noise concern, light sensitive, adjacent to, clearances, etc)
DAS01	C1001R	E	-80C Freexer			44	37	77																											YES							
DAS02	C1001R	E	-20C Freezer			33	26	65																											YES							
DAS03	Not included	N	-20C Freezer			TBD	TBD	TBD			Does not have yet																																	
DAS04	C1001R	E	Fridge	Frigidaire		30	32	68																																				
DAS05	C1001S	E	Cell Culture Incubator			26	26	32											YES															120V									
DAS06	C1001S	E	Cell Culture Incubator			26	26	32			Stack on DAS05								YES															120V									
DAS07	C1001QA	E	Fly Room Incubator			26	26	32											YES															120V									
DAS08	C1001QA	E	Fly Room Incubator			26	26	32			Stack on DAS07								YES															120V									
DAS09	C1001QA	E	Fly Room Incubator			26	26	32											YES															120V									
DAS10	C1001QA	E	Water Bath			23	15	18																																			
DAS11	C1001S	E	6' Biosafety Cabinet, Class II, Type A2								4' BSC in Swing Space						YES	YES																									
DAS12	C1001S	E	Optical Microscope																																								
DAS13	C1001S	E	Optical Microscope																																								
DAS14	C1001	N	Optical Microscope																																								
DAS15	C1001	E	Optical Microscope																																								
DAS16	C1001	N	Optical Microscope																																								
DAS17	C1001NA	N	Inverted Research Microscope	Nikon	Eclipse Ti2-E	19	25	30																																			
DAS18	C1001NA	N	Vibration Isolation Table			36	48																																				

Lab Equipment List - PI Name: Kim, Jongmin

Date: 06/11/2024

Equip Number by PI	Swing Space Room	Existing Room Number or "New"	Equip Name	Manufacturer	Model Number	Width (inches)	Depth (inches)	Height (inches)	Weight (pounds)	Mounting	Comments	P - Domestic Cold Water	P - Domestic Hot Water	P - Drain / Floor Drain	P - RO Water	P - N2 Gaseous Nitrogen	P - Vacuum	P - Compressed Air	P - CO2 Carbon Dioxide	P - O2 Oxygen	P - Lab Natural Gas	PP - Comments	HEAT	HVAC - Supply Air	HVAC - Exhaust Air	HVAC - Exhaust Point (hard duct,...	HVAC - Hard Connection	HVAC - Flex Connection	HVAC - Comments	HVAC - Chilled water CHWS & R	HVAC - Condenser CWS & R	HVAC - Piping Comments	POWER	VOLTAGE	AMPERAGE (NAME PLATE)	PHASE/WIRE	CORD AND PLUG ATTACHMENT (Y/N) (Provide plug configuration in comments column)	EMERGECY POWER REQ'D (Limited Availability)	UPS REQUIRED (User Provided, No Central System)	Electric - Comments	HAZARDOUS GAS MONITORING...	TELE / DATA REQUIREMENTS	General Equipment Comments (shielding, vibration sensitive, noise concern, light sensitive, adjacent to, clearances, etc)
KIM01	C1001VB		Fluorescent Microscope			25	25	12																																			
KIM02	Not included		-80C Freexer								Can share w/ Das																																		
KIM03	C1001R		-20C Freexer																																									
KIM04	Not included		+4C Fridge																																									
KIM05	Not included		Large Counter Centrifuge																																									
KIM06	Not included		Oven																																									
**NOTE: SEE DAS FOR SHARED EQUIPMENT																																											

Lab Equipment List - PI Name: Weiss, Robert

Date: 06/11/2024

Equip Number by PI	Swing Space Room	Existing Room Number or "New"	Equip Name	Manufacturer	Model Number	Width (inches)	Depth (inches)	Height (inches)	Weight (pounds)	Mounting	Comments	P - Domestic Cold Water	P - Domestic Hot Water	P - Drain / Floor Drain	P - RO Water	P - N2 Gaseous Nitrogen	P - Vacuum	P - Compressed Air	P - CO2 Carbon Dioxide	P - O2 Oxygen	P - Lab Natural Gas	PP - Comments	HEAT	HVAC - Supply Air	HVAC - Exhaust Air	HVAC - Exhaust Point (hard duct,...	HVAC - Hard Connection	HVAC - Flex Connection	HVAC - Comments	HVAC - Chilled water CHWS & R	HVAC - Condenser CWS & R	HVAC - Piping Comments	POWER	VOLTAGE	AMPERAGE (NAME PLATE)	PHASE/WIRE	CORD AND PLUG ATTACHMENT (Y/N) (Provide plug configuration in comments column)	EMERGECY POWER REQ'D (Limited Availability)	UPS REQUIRED (User Provided, No Central System)	Electric - Comments	HAZARDOUS GAS MONITORING...	TELE / DATA REQUIREMENTS	General Equipment Comments (shielding, vibration sensitive, noise concern, light sensitive, adjacent to, clearances, etc)
WEI01	C1001P	TC 1	4' Biosfaety Cabinet, Class II, Type A2							Floor																																	
WEI02	C1001P	TC 1	4' Biosfaety Cabinet, Class II, Type A2							Floor																																	
WEI03	C1001P	TC 1	4' Biosfaety Cabinet, Class II, Type A2							Floor																																	
WEI04	Not included	TC 1	4' Biosfaety Cabinet, Class II, Type A2							Floor	Only (3)																																	
WEI05	C1001P	TC 1	CO2 Incubator							Floor									YES																									
WEI06	C1001P	TC 1	CO2 Incubator							WEI05	Stacked on WEI05								YES																									
WEI07	C1001P	TC 1	Water Bath							Bench																																	
WEI08	C1001P	TC 1	Optical Microscope							Bench																																	
WEI09	Not included	Alcove 1	Microwave							Bench																																	
WEI10	Not included	Alcove 1	Deli Cooler			54	30	79		Floor	Not needed if Cold Room																																	
WEI11	Not included	TC 2	6' Biosafety Cabinet, Class II, Type A2							Floor																																	
WEI12	C1001P	TC 2	CO2 Incubator							Floor									YES																									
WEI13	C1001P	TC 2	CO2 Incubator							WEI12	Stacked on WEI12								YES																									
WEI14	C1001P	TC 2	Optical Microscope							Bench																																	
WEI15	C1001P	TC 2	Centrifuge							Bench																																	
WEI16	C1001P	TC 2	Water Bath							Bench																																	
WEI17	C1001	Open Lab	Centrifuge							Bench																																	
WEI18	C1001	Open Lab	Centrifuge							Bench																																	
WEI19	C1001	Open Lab	Centrifuge							Bench																																	
WEI20	C1001	Open Lab	PCR							Bench																																	
WEI21	C1001	Open Lab	PCR							Bench																																	
WEI22	C1001	Open Lab	PCR							Bench																																	
WEI23	C1001	Open Lab	PCR							Bench																																	
WEI24	C1001	Open Lab	PCR							Bench																																	
WEI25	C1001	Open Lab	PCR							Bench																																	
WEI26	C1001	Open Lab	Microscope + Monitor							Bench																																	
WEI27	Not included	Open Lab	Standard Fridge							Floor																																	
WEI28	Not included	Open Lab	+4C Full Size Fridge			28	33	82		Floor																																	
WEI29	Not included	Open Lab	+4C Full Size Fridge	VWR		27	30	76		Floor																																	
WEI30	C1001X	Microscopy	Medium Sized Microscope							Bench																																	
WEI31	C1001X	Microscopy	Medium Sized Microscope							Bench																																	
WEI32	C1001X	Microscopy	Warming Oven			24	15	15		Bench																																	
WEI33	C1001X	Microscopy	Warming Oven			20	20	18		Bench																																	
WEI34	C1001X	Microscopy	Large Centrifuge	Thermo Scientific	Multifuge X Pro Series					Bench																																	
WEI35	Not included	Microscopy	Large PCR			15	18	16		Bench																																	
WEI36	Not included	Corridor	Metal Cabinet - Dirty Cage Holding			36	18			Floor																																	
WEI37	C1001V	Corridor	-80C Freezer	Thermo Scientific	TSX50086D	38	38	77		Floor																											208V	5A						
WEI38	C1001V	Corridor	-20C Freezer			32	31	75		Floor																																	
WEI39	C1001V	Corridor	-20C Freezer			32	31	75		Floor																																	
WEI40	C1001V	Corridor	-20C Freezer			32	31	75		Floor																																	
WEI41	C1001V	Corridor	-80C Freezer	Fisher Scientific	#8964	45	40	77		Floor																											120V	16A						
WEI42	C1001V	Corridor	-80C Freezer	Thermo Scientific	#988	36	38	77		Floor																											208V	12A						
WEI43	Not included	Corridor	Standard Fridge / Freezer			30				Floor																																	
WEI44	C1001A		Ice Machine							Floor																																	

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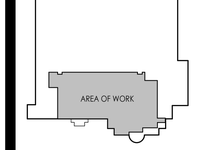
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REGISTERED ARCHITECT MICHAEL STEVEN [illegible] 041042 STATE OF NEW YORK

Key Plan:



Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

LAB EQUIPMENT SCHEDULES

Scale:
Revision: **0**
Drawing No. **A732**

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ORIGINAL SHEET - ARCH E1

Lab Equipment List - PI Name: Lin, Dave

Date: 06/11/2024

Equip Number by PI	Swing Space Room	Existing Room Number or "New"	Equip Name	Manufacturer	Model Number	Width (inches)	Depth (inches)	Height (inches)	Weight (pounds)	Mounting	Comments	P - Domestic Cold Water	P - Domestic Hot Water	P - Drain / Floor Drain	P - RO Water	P - N2 Gaseous Nitrogen	P - Vacuum	P - Compressed Air	P - CO2 Carbon Dioxide	P - O2	P - Lab Natural Gas	PP - Comments	HEAT	HVAC - Supply Air	HVAC - Exhaust Air	HVAC - Exhaust Point (hard duct,...	HVAC - Hard Connection	HVAC - Flex Connection	HVAC - Comments	HVAC - Chilled water CHWS & R	HVAC - Condenser CWS & R	HVAC - Piping Comments	POWER	VOLTAGE	AMPERAGE (NAME PLATE)	PHASE/WIRE	CORD AND PLUG ATTACHMENT (Y/N) (Provide plug configuration in comments column)	EMERGECY POWER REQ'D (Limited Availability)	UPS REQUIRED (User Provided, No Central System)	Electric - Comments	HAZARDOUS GAS MONITORING...	TELE / DATA REQUIREMENTS	General Equipment Comments (shielding, vibration sensitive, noise concern, light sensitive, adjacent to, clearances, etc)
LIN01	C1001A	Corridor	-80 Freezer	REVCO		36	38	75		Floor																								120V	16.6A								
LIN02	C1001V	Corridor	-80 Freezer	HARRIS		42	38	75		Floor																								120V	16A								
LIN03	C1001V	Corridor	-20 Freezer			34	31	72		Floor																																			
LIN04	C1001V	Corridor	-20 Freezer			34	31	72		Floor																																			
**NOTE: SEE WEISS FOR SHARED EQUIPMENT																																											

Lab Equipment List - PI Name: White, Andrew

Date: 06/11/2024

Equip Number by PI	Swing Space Room	Existing Room Number or "New"	Equip Name	Manufacturer	Model Number	Width (inches)	Depth (inches)	Height (inches)	Weight (pounds)	Mounting	Comments	P - Domestic Cold Water	P - Domestic Hot Water	P - Drain / Floor Drain	P - RO Water	P - N2 Gaseous Nitrogen	P - Vacuum	P - Compressed Air	P - CO2 Carbon Dioxide	P - O2	P - Lab Natural Gas	PP - Comments	HEAT	HVAC - Supply Air	HVAC - Exhaust Air	HVAC - Exhaust Point (hard duct,...	HVAC - Hard Connection	HVAC - Flex Connection	HVAC - Comments	HVAC - Chilled water CHWS & R	HVAC - Condenser CWS & R	HVAC - Piping Comments	POWER	VOLTAGE	AMPERAGE (NAME PLATE)	PHASE/WIRE	CORD AND PLUG ATTACHMENT (Y/N) (Provide plug configuration in comments column)	EMERGECY POWER REQ'D (Limited Availability)	UPS REQUIRED (User Provided, No Central System)	Electric - Comments	HAZARDOUS GAS MONITORING...	TELE / DATA REQUIREMENTS	General Equipment Comments (shielding, vibration sensitive, noise concern, light sensitive, adjacent to, clearances, etc)
WHI01	C1001V	Corridor	-20 Freezer	VWR		32	30	72		Floor																																			
WHI02	C1001V	Corridor	-20 Freezer			30	29	74		Floor																																			
WHI03	C1001V	Corridor	-80 Freezer	Fisher Scientific	#8974	51	38	75		Floor																								208V	12A				YES					
WHI04	C1001V	Corridor	-80 Freezer	VWR	5606	44	40	75		Floor																								208V	12A				YES					
WHI05	C1001V	Corridor	-20 Freezer	VWR		34	33	72		Floor																																			
WHI06	C1001H	Corridor	+4C Fridge	VWR		33	32	77		Floor																																			
WHI07	C1001H	Corridor	+4C Fridge			28	32	60		Floor																																			
WHI08	C1001	Open Lab	DI Still	Barnstead	Megapure MP-6A	18	12	45																										240V	21A									
WHI09	C1001	Open Lab	Ultrapure Water System	Barnstead	Nanopure Diamond	18	14	20																																					
WHI10	C1001	Open Lab	+4C Undercounter Fridge							Floor																																			
WHI11	C1001	Open Lab	+4C Undercounter Fridge							Floor																																			
WHI12	Not included	Open Lab	+4C Undercounter Fridge							Floor																																			
WHI13	Not included	Open Lab	+4C Fridge			30	32	68		Floor																																			
WHI14	Not included	Open Lab	Fume Hood							Bench	w/ Histology Material																																			
WHI15	C1001	Open Lab	Oven			20	22	30		Bench																																			
WHI16	C1001	Open Lab	Oven			20	22	30		Bench																																			
WHI17	C1000	Open Lab	PCR Machine	Biorad	T100 Thermal Cycler	10	18	9		Bench																																			
WHI18	C1000	Open Lab	PCR Machine	Biorad	T100 Thermal Cycler	10	18	9		Bench																																			
WHI19	C1000	Open Lab	PCR Machine	Biorad	T100 Thermal Cycler	10	18	9		Bench																																			
WHI20	C1000	Open Lab	PCR Machine	Biorad	T100 Thermal Cycler	10	18	9		Bench																																			
WHI21	C1000	Open Lab	PCR Machine	Biorad	T100 Thermal Cycler	10	18	9		Bench																																			
WHI22	C1000	Open Lab	Large Water Bath			22	22	12		Bench																																			
WHI23	C1001H	TC1	6' Biosafety Cabinet, Class II, Type A2							Floor	4' in Swing Space																																			
WHI24	C1001H	TC1	4' Biosafety Cabinet, Class II, Type A2							Floor																																			
WHI25	C1001H	TC1	CO2 Incubator							Floor									YES																										
WHI26	C1001H	TC1	CO2 Incubator							WHI25	Stacked on WHI25								YES																										
WHI27	C1001H	TC1	Centrifuge	Sorval	Legend X1R	30	28	15		Bench																																			
WHI28	C1001H	TC1	Optical Microscope																																									
WHI29	C1001G	Prep	Optical Scope																																									
WHI30	C1001G	Prep	Microtome																																									
WHI31	C1001G	Prep	Optical Scope																																									
WHI32	C1001G	Micro	Fluorescent Scope + CPU																																										
WHI33	C1001G	Micro	Real-Time qPCR Machine																																										
WHI34	C1001G	Micro	Large Centrifuge	Beckman	Allegra 6R																																							

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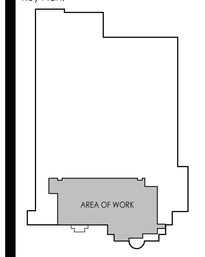
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Issued/Revision		YYYY.MM.DD

Permit/Seal



Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

LAB EQUIPMENT SCHEDULES

Scale:

Revision:**0**

Drawing No. **A733**

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ORIGINAL SHEET - ARCH E1

Lab Equipment List - PI Name: Schimenti, John

Date: 06/11/2024

Equip Number by PI	Swing Space Room	Existing Room Number or "New"	Equip Name	Manufacturer	Model Number	Width (inches)	Depth (inches)	Height (inches)	Weight (pounds)	Mounting	Comments	P - Domestic Cold Water	P - Domestic Hot Water	P - Drain / Floor Drain	P - RO Water	P - N2 Gaseous Nitrogen	P - Vacuum	P - Compressed Air	P - CO2 Carbon Dioxide	P - O2	P - Lab Natural Gas	PP - Comments	HEAT	HVAC - Supply Air	HVAC - Exhaust Air	HVAC - Exhaust Point (hard duct, snorkle, canopy)	HVAC - Hard Connection	HVAC - Flex Connection	HVAC - Comments	HVAC - Chilled water CHWS & R	HVAC - Condenser CWS & R	HVAC - Piping Comments	POWER	VOLTAGE	AMPERAGE (NAME PLATE)	PHASE/WIRE	CORD AND PLUG ATTACHMENT	EMERGECY POWER REQ'D	UPS REQUIRED (User Provided)	Electric - Comments	HAZARDOUS GAS MONITORING	TELE / DATA REQUIREMENTS	General Equipment Comments (shielding, vibration sensitive, noise concerns, light sensitive, adjacent to, clearances, etc)
SCH01	C1001	E9007	Undercounter Fridge																																							
SCH02	C1001	E9007	Undercounter Freezer																																							
SCH03	Not included	E9007	Undercounter Fridge																																							
SCH04	Not included	E9007	Undercounter Freezer																																							
SCH05	Not included	E9007	Undercounter Fridge																																							
SCH06	Not included	E9007	Undercounter Freezer																																							
SCH07	Not included	E9007	Undercounter Fridge																																							
SCH08	Not included	E9007	Undercounter Freezer																																							
SCH09	Not included	E9007	Undercounter Fridge																																							
SCH10	Not included	E9007	Undercounter Freezer																																							
SCH11	Not included	E9007	Undercounter Fridge																																							
SCH12	Not included	E9007	Undercounter Freezer																																							
SCH13	Not included	E9007	Undercounter Fridge																																							
SCH14	Not included	E9007	Undercounter Freezer																																							
SCH15	C1001	E9007	Countertop Autoclave	Market Forge	Sterilmatic	20	30	36																																		
SCH16	C1001A	Corridor	-80C Freezer	Thermo Electron Corp		42	36	77																																		
SCH17	C1001A	Corridor	-80C Freezer	VWR	VWR60086FA	42	36	77																																		
SCH18	C1001A	Corridor	Standard Fridge / Freezer																																							
SCH19	Not included	T9007H	Countertop Oven	Fisher Scientific	IsoTemp Oven	30	24	22																																		
SCH20	Not included	T9007H	UV Transilluminator	UVP	BioDoc-It System	15	9	18																																		
SCH21	Not included	T9007H	Microtome	Leica	RM2145	12	24	12																																		
SCH22	Not included	T9007N	Centrifuge	Beckman Coulter	Microfuge 22R	17	28	12		Bench																																
SCH23	Not included	T9007N	Centrifuge	Beckman Coulter	Allegra 25R	30	30	16		Bench																																
SCH24	Not included	T9007N	Centrifuge	Beckman Coulter	Allegra 6R	36	30	16		Bench	Only need 1																															
SCH25	Not included	T9007N	Refrigerated Centrifuge	Sorvall	RC-5B	36	36	52		Floor																										208V or 240V								
SCH26	C1001A	T9007N	Incubator Shaker	New Brunswick	I2500 Series	48	30	44		Floor																																
SCH27	Not included	T9007M	4' Biosafety Cabinet, Class II, Type A2																																							
SCH28	Not included	T9007M	CO2 Incubator																YES																					YES			
SCH29	Not included	T9007M	CO2 Incubator																YES																					YES			
SCH30	Not included	T9007M	48" Vibration Table w/ Microscope and Equipment								Can go in storage for reno																															
SCH31	Not included	T9007M	Optical Microscope																																							
SCH32	Not included	T9007M	Small Centrifuge																																							
SCH33	Not included	T9007M	Laminar Flow Hood			36	36	48																																		
SCH34	C1001D	T9007L	Fluorescent Microscope + CPU Workstation																																							
SCH35	C1001D	T9007L	Optical Microscope + Laptop Workstation																																							
SCH36	Not included	T9007K	4' Biosafety Cabinet, Class II, Type A2																																							
SCH37	Not included	T9007K	CO2 Incubator																YES																					YES			
SCH38	Not included	T9007K	CO2 Incubator																YES																					YES			
SCH39	Not included	T9007K	Optical Microscope																																							
SCH40	Not included	T9007K	Small Centrifuge																																							
SCH41	C1001A	T9007J	-20C Freezer																																					YES			
SCH42	C1001	T9007J	Optical Microscope																																							
SCH43	C1001	T9007J	Optical Microscope																																							
SCH44	Not included	T9007J	Laminar Flow Hood																																							
SCH45	Not included		Liquid Nitrogen Storage Tanks																																							

Lab Equipment List - PI Name: Nikitin, Alexander

Date: 06/11/2024

Equip Number by PI	Swing Space Room	Existing Room Number or "New"	Equip Name	Manufacturer	Model Number	Width (inches)	Depth (inches)	Height (inches)	Weight (pounds)	Mounting	Comments	P - Domestic Cold Water	P - Domestic Hot Water	P - Drain / Floor Drain	P - RO Water	P - N2 Gaseous Nitrogen	P - Vacuum	P - Compressed Air	P - CO2 Carbon Dioxide	P - O2	P - Lab Natural Gas	PP - Comments	HEAT	HVAC - Supply Air	HVAC - Exhaust Air	HVAC - Exhaust Point (hard duct, snorkle, canopy)	HVAC - Hard Connection	HVAC - Flex Connection	HVAC - Comments	HVAC - Chilled water CHWS & R	HVAC - Condenser CWS & R	HVAC - Piping Comments	POWER	VOLTAGE	AMPERAGE (NAME PLATE)	PHASE/WIRE	CORD AND PLUG ATTACHMENT	EMERGECY POWER REQ'D	UPS REQUIRED (User Provided)	Electric - Comments	HAZARDOUS GAS MONITORING	TELE / DATA REQUIREMENTS	General Equipment Comments (shielding, vibration sensitive, noise concerns, light sensitive, adjacent to, clearances, etc)
NIK01	C1001A	Corridor	-80C Freezer	Thermo Scientific	989	43	37	77																										208V	12A								
NIK02	C1001A	Corridor	-80C Freezer	Thermo Scientific	989	43	37	77																										208V	12A								
NIK03	C1001A	Corridor	-80C Freezer	Forma Scientific	8684	44	37	77																																				
NIK04	C1001A	Corridor	-20C Freezer			34	35	70																																				
NIK05	C1001C	Prep Room	Microtome								DO NOT want to share																																		
NIK06	C1001C	Prep Room	Fluorescent Microscope																																									
NIK07	C1001C	Prep Room	Optical Microscope																																									
NIK08	Not included	Prep Room	+4C Full Height Fridge																																									
NIK09	C1001D	Microscopy	Fluorescent Microscope																																									
NIK10	C1001D	Microscopy	20"w x 30"d x 84" slide shelving			20	30	84																																				
NIK11	C1001A	Open Lab	-20C Full size freezer																																									
NIK12	C1001A	Open Lab	-20C Full size freezer																																									
NIK13	C1001A	Open Lab	+4C Full Height Fridge																																									
NIK14	C1001A	Open Lab	+4C Full Height Fridge																																									
NIK15	C1001A	Open Lab	+4C Full Height Fridge																																									
NIK16	C1001E	Alcove	Fume Hood - Chemical																																									
NIK17	C1001E	Alcove	Fume Hood - Histology																																									
NIK18	C1001E	Alcove	Flammable Cabinet																																									
NIK19	C1001E	Alcove	Warming Oven			24	24	24																																				
NIK20	C1001E	Alcove	Special Microwave			30	22	24																																				
NIK21	Not included		+4C Full Height Fridge																																									
NIK22	C1001A		+4C Full Height Fridge																																									
NIK23	C1001A		-20C Full size freezer																																									
NIK24	C1001		PCR Machine (small)																																									
NIK25	C1001		PCR Machine (small)																																									
NIK26	C1001		PCR Machine (small)																																									
NIK27	Not included		Gel Imager			24	18	28																																				
NIK28	Not included		UV Viewing System			30	16	14																																				
NIK29	Not included		Microwave																																									
NIK30	C1001		RO/DI System																																									
NIK31	Not included	Support 1	Benchtop Centrifuge																																									
NIK32	Not included	Support 1	Countertop Incubator / Warming Oven																																									
NIK33	C1001B	Support 2	4' Biosafety Cabinet, Class II, Type A2																																									
NIK34	C1001B	Support 2	4' Biosafety Cabinet, Class II, Type A2																																									
NIK35	Not included	Support 2	4' Biosafety Cabinet, Class II, Type A2								Only 2 for Swing Space																																	
NIK36	Not included	Support 2	4' Biosafety Cabinet, Class II, Type A2								Only 2 for Swing Space																																	
NIK37	C1001B	Support 2	Incubator													Yes			Yes	Yes																								
NIK38	C1001B	Support 2	Incubator													Yes			Yes	Yes																								
NIK39	C1001B	Support 2	Incubator													Yes			Yes	Yes																								
NIK40	C1001B	Support 2	Incubator													Yes			Yes	Yes																								
NIK41	C1001B	Support 2	Full-size fridge / freezer																																									
NIK42	Not included	Support 2	Full-size fridge / freezer																																									
NIK43	C1001B	Support 2	Microscope																																								
NIK44	C1001B	Support 2	Microscope																																								
NIK45	Not included	Support 2	Centrifuge																																								
NIK46	C1001B	Support 2	Refrigerated Centrifuge																																								
NIK47	C1001B	Support 2	Water Bath																																								
NIK48	C1001CA	T4011A	Biosafety Cabinet, Class II, Type A2			30	24	48																																				
NIK49	C1001CA	T4011A	Water Bath																																								
NIK50	C1001CA	T4011A	Water Bath																																								
NIK51	C1001CA	T4011A	-20C Full size freezer																																								
NIK52	C1001CA	T4011A	+4C Undercounter Fridge																																								
NIK53	C1001CA	T4011A	Centrifuge																																								
NIK54	C1001CA	T4011A	Centrifuge																																								

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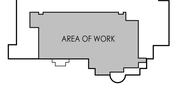
Consultant

0	ISSUED FOR PERMIT	2024.06.25
Issued/Revision		YYYY.MM.DD

Permit/Seal



Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

LAB EQUIPMENT SCHEDULES

Scale:

Revision:**0**

Drawing No. **A734**

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7/1/2024 3:53:29 PM

ORIGINAL SHEET - ARCH E1

ABBREVIATIONS

ABD	AUTOMATIC BALL DRIP
ACV	ALARM CHECK VALVE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AUX	AUXILIARY
BFP	BACKFLOW PREVENTER
BOP	BOTTOM OF PIPE
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DCV	DOUBLE CHECK VALVE
DN	DOWN
DPS	DRY PIPE SPRINKLER
DPV	DRY PIPE VALVE
DR	DRAIN
DWG	DRAWING
EH1	EXTRA HAZARD, GROUP 1
EH2	EXTRA HAZARD, GROUP 2
EL	ELEVATION
F	FIRE SERVICE
FCA	FLOOR CONTROL VALVE ASSEMBLY
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FM	FM GLOBAL, FACTORY MUTUAL
FP	FIRE PROTECTION
FS	FLOW SWITCH
FT	FOOT, FEET
JP	JOCKEY PUMP
LH	LIGHT HAZARD
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
OH1	ORDINARY HAZARD, GROUP 1
OH2	ORDINARY HAZARD, GROUP 2
OS&Y	OUTSIDE SCREW & YOKE
PG	PRESSURE GAUGE
PRV	PRESSURE REDUCING VALVE
RPZ	REDUCED PRESSURE ZONE BFP ASSEMBLY
SQ.FT.	SQUARE FOOT (FEET)
SPECS	SPECIFICATIONS
SPR	SPRINKLER
TS	TAMPER SWITCH
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES

FIRE PROTECTION LEGEND

- PIPE DROP/DOWN
- PIPE UP
- TEE OUTLET DOWN
- TEE OUTLET UP
- CAPPED PIPE
- PIPE BREAK
- GATE VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- DOUBLE CHECK VALVE ASSEMBLY
- OS&Y WITH TAMPER SWITCH
- ALARM CHECK VALVE
- DRY PIPE VALVE
- FIRE DEPARTMENT CONNECTION
- S — SOLENOID VALVE
- TS — TAMPER SWITCH
- WFS — WATER FLOW SWITCH
- PS — PRESSURE SWITCH
- BFP — BACKFLOW PREVENTER
- FCVA — FLOOR CONTROL VALVE ASSEMBLY
- UPRIGHT SPRINKLER HEAD
- CONCEALED PENDENT SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD

SPRINKLER DESIGN CRITERIA

1. ALL PROPOSED SPRINKLER WORK IN THIS BUILDING SHALL BE IN ACCORDANCE WITH THE 2025 NEW YORK STATE BUILDING CODE & FIRE CODE, NFPA 13-2022, AND FM GLOBAL DATA SHEETS.
2. OCCUPANCY CRITERIA:
   A. GENERAL NOTES:
      a. REFER TO NFPA 13 FOR OCCUPANCY HAZARD CLASSIFICATION.
      b. REFER TO FM DATA SHEET 3-26 FOR HAZARD CATEGORY CRITERIA.
      c. FOR DRY PIPE SYSTEMS, INCREASE DESIGN AREA BY 30 PERCENT.
      d. DESIGN AREA MAY BE REDUCED TO LIMITS DESCRIBED IN NFPA 13, WITH APPROVAL FROM THE FIRE CODE OFFICIAL.
   B. HAZARD CATEGORY 1 - DENSITY 0.1 GPM PER SQ. FT. OVER MOST HYDRAULICALLY DEMANDING 1,500 SQ. FT. 250 GPM HOSE ALLOWANCE. DURATION OF SUPPLY 60 MINUTES.
   C. HAZARD CATEGORY 2 - DENSITY 0.20 GPM PER SQ. FT. OVER MOST HYDRAULICALLY DEMANDING 2,500 SQ. FT. 250 GPM HOSE ALLOWANCE. DURATION OF SUPPLY 60 MINUTES.
3. MINIMUM PRESSURE AND WATER DISCHARGE:
   A. THE MINIMUM PRESSURE AT ANY SPRINKLER HEAD SHALL BE 7 PSI AND ADJUSTED UPWARDS BASED UPON OCCUPANCY HAZARD REQUIRED FLOW.
   B. SEE SPRINKLER HEAD MANUFACTURER DATA FOR MORE INFORMATION.
4. HYDRAULICALLY CALCULATED SYSTEMS SHALL MEET THE FOLLOWING CRITERIA:
   A. EXACT LOCATION OF SPRINKLER HEADS IN FINISHED AREAS WITH SUSPENDED CEILINGS SHALL BE AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLANS WITH HEADS IN CENTER OF TILES AND/OR ALIGNED WITH LIGHTS.
   B. EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA STANDARD NO. 13, 2016. WHEREVER FITTINGS ARE USED IN CONJUNCTION WITH SCHEDULE 40 PIPE, EQUIVALENT FITTING LENGTHS INDICATED IN NFPA 13 SHALL BE INCREASED BY 30%.
   C. DISCHARGE FROM EACH SPRINKLER HEAD SHALL NOT BE LESS THAN REQUIRED FOR AREA COVERED BY THE HEAD. AREA COVERAGE PER HEAD SHALL BE DETERMINED IN ACCORDANCE WITH NFPA STANDARD NO. 13, 2016, PARAGRAPH 23.4.4.6.1.
   D. HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO CONNECTION TO WATER SUPPLY.
1. FLOW TEST DATA:
   A. CONTRACTOR SHALL OBTAIN FLOW DATA INDICATING RESIDUAL PRESSURES ASSOCIATED WITH BUILDING SYSTEM AND SUBMIT DATA WITH HYDRAULIC CALCULATIONS.
   B. THESE HYDRAULIC CALCULATIONS ALONG WITH PUMP OR WATER FLOW TEST ARE TO BE SUBMITTED FOR APPROVAL TO THE ENGINEER AND TO THE INSURANCE UNDERWRITER. HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO THE LOCATION OF THE PUMP OR WATER FLOW TEST.
   C. CONSTRUCTION MAY ONLY BEGIN WHEN APPROVALS ARE GRANTED.
   D. RESULT OF HYDRAULIC CALCULATIONS SHALL INDICATE MINIMUM 10% PRESSURE SAFETY MARGIN, I.E., EXCESS OF PRESSURE AVAILABLE OVER PRESSURE REQUIRED.

SCOPE OF WORK NOTES

1. THE DESIGN AND INSTALLATION SHALL CONFORM TO CORNELL AND SUCF CONSTRUCTION STANDARDS AND FOLLOW THEIR SUBMITTAL PROCEDURE FOR SHOP DRAWING APPROVAL.
2. CORNELL USES FM GLOBAL DESIGN AND INSTALL SHALL COMPLY WITH FM DATA SHEETS. PRODUCTS INSTALLED SHALL BE FM GLOBAL APPROVED.
3. THE SCOPE OF WORK OF THIS PROJECT IS TO REMOVE THE EXISTING BRANCH PIPING, SPRINKLER HEADS AND APPURTENCES IN THE SCOPE AREA. PROPOSEDBRANCHLINES AND SPRINKLER HEADS SHALL BE PROVIDED IN COORDINATION WITH THE PROPOSEDLAB LAYOUT AND ASSOCIATED PROPOSEDMEP SYSTEMS.
4. THE EXISTING SPRINKLER AND PIPING LAYOUT SHOWN IS BASED ON ORIGINAL DESIGN DRAWINGS. EXISTING SPRINKLER SHOP DRAWINGS DO NOT EXIST FOR THIS AREA OF THE BUILDING. BECAUSE OF THE EXISTING USE OF THE SPACE, EXACT PIPE ROUTING AND ELEVATION COULD NOT BE VERIFIED. SPRINKLER CONTRACTOR TO FIELD DOCUMENT THE ACTUAL SYSTEM LAYOUT DURING THE DEMOLITION PHASE, AND REPORT AND SERIOUS DISCREPANCIES TO THE ENGINEER.

SPRINKLER GENERAL NOTES

1. CONTRACTOR SHALL VERIFY DIMENSIONS AND JOB CONDITIONS AND SHALL REPORT TO ENGINEER ANY DISCREPANCIES OR OMISSIONS THAT WOULD INTERFERE WITH SATISFACTORY COMPLETION OF THE WORK.
2. COORDINATE THE FIRE PROTECTION SYSTEM WITH WORK OF OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING A FULL SET OF BID DOCUMENTS AND VISIT THE SITE TO MAKE THEMSELF AWARE OF THE TOTAL JOB BEFORE SUBMITTING HIS PRICE. FAILURE TO COMPLY SHALL NOT HOLD THE OWNER RESPONSIBLE FOR ANY ADDITIONAL COST. CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING WITH FACILITY'S BUILDING MANAGEMENT FOR HANDLING MATERIALS, AS WELL AS FOR ALLOWABLE WORKING HOURS AND DELIVERIES.
4. NOTIFY OWNER AT LEAST 7 DAYS BEFORE PROPOSEDWORK OR BEFORE SHUT DOWN OF EXISTING SERVICES.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND MANUFACTURERS' CUTS AND SAMPLES TO ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF SUCH WORK.
6. THE CONTRACTOR SHALL INDICATE ON THEIR SHOP DRAWING THAT PIPING LAYOUTS ARE COORDINATED WITH THE MEP AND STRUCTURAL CONDITIONS. INCLUDE ON EACH WORKING DRAWING LAYOUT CERTIFICATE, THAT RELATED CONDITIONS HAVE BEEN CHECKED, AND THAT NO CONFLICT EXISTS. SUBMISSION WILL NOT BE APPROVED WITHOUT SUCH CERTIFICATION.
7. CONTRACTOR SHALL SUBMIT SPRINKLER HYDRAULIC CALCULATIONS FOR THE ENGINEER'S REVIEW TO VERIFY THE ADEQUACY OF THE INDICATED PIPE SIZES.
8. SPRINKLER CONTRACTOR SHALL CONDUCT A HYDRANT FLOW TEST OR OBTAIN FLOW TEST DATA TO VERIFY THE AVAILABLE WATER SUPPLY PRESSURE AND FLOW RATE ON THE INCOMING FIRE SERVICE. CONTRACTOR SHALL BASE HYDRAULIC CALCULATIONS ON THIS DATA.
9. DRAWINGS ARE NOT TO BE SCALED.
10. CONTRACTOR SHALL CARRY AND DOCUMENT LIABILITY, ACCIDENT AND PROPERTY DAMAGE INSURANCE AS REQUIRED BY COOPERATIVE CORPORATION AND OBSERVE THEIR PERMITTED HOURS FOR WORK.
11. CONTRACTOR SHALL EXERCISE EXTREME CARE IN PROTECTING AREAS ADJACENT TO CONSTRUCTION AREAS AND SHALL FULLY PROTECT THE ADJACENT AREAS FROM ANY DAMAGE RESULTING FROM CONTRACTOR'S WORKMEN, SUBCONTRACTORS OR AGENTS, AND SHALL BE RESPONSIBLE FOR REPAIRING, CLEANING OR REPLACING ANY SUCH DAMAGE.
12. DIMENSIONS GIVEN ARE FINISH DIMENSIONS UNLESS OTHERWISE STATED.
13. UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FURNISH LABOR, MATERIALS, APPURTENANCES, EQUIPMENT AND SERVICES TO COMPLETE WORK AS INDICATED ON DRAWINGS AND/OR SPECIFIED ON NOTES.
14. UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FOLLOW MANUFACTURER'S DIRECTIONS, INSTRUCTIONS AND RECOMMENDATIONS FOR MATERIALS AND PROCESSES USED IN THIS CONTRACT.
15. SPRINKLER HEADS SHALL NOT BE LOCATED DIRECTLY OVER ANY ELECTRICAL AND TELEPHONE EQUIPMENT.
16. SPRINKLER HEADS IN MECHANICAL ROOMS SHALL HAVE AN INTERMEDIATE TEMPERATURE RATING (155°F).
17. SPRINKLER PIPING SHALL BE INSTALLED AS PER APPROVED SHOP DRAWINGS.
18. EACH CONTRACTOR IS RESPONSIBLE TO PROVIDE PENETRATIONS, CUTTING, PATCHING, SLEEVES, AND FIRESTOPPING REQUIRED TO COMPLETE THE INSTALLATION OF WORK INCLUDED UNDER THEIR CONTRACT IN ACCORDANCE WITH THE FIRE EGRESS AND SECURITY PLAN DRAWINGS.
19. ANY DAMAGE TO THE FIRE PROOFING OR BUILDING PROPER SHALL BE REPAIRED TO ENSURE INTEGRITY.
20. UPRIGHT SPRINKLER HEADS IN MECHANICAL AND STORAGE ROOMS SHALL HAVE LISTED HEAD GUARDS.
21. LOCATE HORIZONTAL PIPING ABOVE SUSPENDED CEILING, UNLESS THERE IS NO CEILING.
22. PROVIDE SPRINKLER HEADS UNDER DUCTS OVER 4'-0" IN WIDTH IN AREAS WITHOUT HUNG CEILING.
23. UPON COMPLETION OF THE WORK, CONTRACTOR SHALL COMPLETELY CLEAN THE CONSTRUCTION AREA SUITABLE FOR THE OWNER'S USE, INCLUDING REMOVAL OF LABELS (AFTER ARCHITECT'S INSPECTION), CLEANING OF THE EQUIPMENT, CONSTRUCTION WORK, WINDOWS AND OTHER WORK, NEW AND OLD, IN THAT CONSTRUCTION AREA.
24. AS-BUILT DRAWINGS SHALL BE TURNED OVER TO OWNER AT THE COMPLETION OF THE JOB.
25. CONTRACTOR SHALL GUARANTEE WORK PERFORMED UNDER THIS CONTRACT FOR ONE YEAR, STARTING FROM DATE OF FINAL ACCEPTANCE OF THE WORK.
26. THE MINIMUM SPRINKLER BRANCH PIPE SIZE SHALL BE 1".
27. SPRINKLERS SHALL BEAR APPROVAL BY FM GLOBAL AND BE UL LISTED FOR THE APPLICATION
28. REGARDLESS OF WHETHER OR NOT ANY PORTION OF THE SPRINKLER SYSTEM IS OUT OF SERVICE FOR MORE THAN ONE WORK DAY, REMOVAL OF THE CEILINGS FOR MORE THAN ONE WORK DAY WILL REQUIRE THE CONTRACTOR TO PROVIDE TEMPORARY HEAT DETECTORS AT DECK LEVEL IN THE AFFECTED ROOMS. THIS IS BECASUE THE ACTIVE CEILING-LESS SPRINKLERS WILL BE TOO FAR BELOW DECK TO ACTIVATE QUICKLY IN AN INCIDENT. AFTER INSTALLATION AND INTEGRATION INTO EXISTING FIRE ALARM SYSTEM, DETECTORS WILL NEED TO BE TESTED AND WITNESSED BY CORNELL EH&S BEOFRE CONSTRUCTION CAN COMMENCE. THIS DIRECTIVE IS BEING MADE BASED ON THE UNDERSTANDING THAT THE SPRINKLER SYSTEM SERVING THE REST OF THE ZONE (FLOOR) WILL BE PUT BACK INTO SERVICE AT THE END OF EACH WORK DAY.

DELEGATED DESIGN AND DEFERRED SUBMITTAL NOTES

1. THE FIRE SUPPRESSION SYSTEM, AS REQUIRED BY THE LOCALLY ADOPTED CODES AND STANDARDS, SHALL BE A DELEGATED DESIGN PERFORMED BY THE LICENSED FIRE SUPPRESSION CONTRACTOR. THIS DELEGATED DESIGN SHALL CONSIST OF A DEFERRED SUBMITTAL TO THE BUILDING OFFICIAL. CONTRACTOR SHALL PROVIDE PE-STAMPED COPIES OF SHOP DRAWINGS AND HYDRAULIC CALCULATIONS TO THE FOLLOWING FOR APPROVAL:
   A. ITHACA FIRE DEPARTMENT
   B. CORNELL ENVIRONMENT, HEALTH AND SAFETY
   C. CORNELL FIRE PROTECTION ENGINEER
   D. FM GLOBAL
2. THE INTENT OF THESE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS ARE TO PROVIDE A COMPLETE FIRE PROTECTION SYSTEM FOR THE PROPOSED PROJECT. THE FIRE PROTECTION SYSTEM SHALL CONFORM TO THE DETAILS STATED IN THE SPECIFICATIONS AS SHOWN ON THE FIRE PROTECTION DRAWINGS. ITEMS OR WORK NOT SHOWN OR SPECIFIED BUT REQUIRED FOR A COMPLETE FIRE PROTECTION SYSTEM SHALL BE PROVIDED AND SHALL CONFORM WITH ACCEPTED TRADE PRACTICES, LOCAL CODES, AND GOVERNING AUTHORITIES.
3. THESE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS REFLECT THE OWNER'S MINIMUM REQUIREMENTS, WITH WHICH THE CONTRACTOR MUST COMPLY. THESE DOCUMENTS SHALL NOT BE CONSTRUED AS FIRE PROTECTION SYSTEMS SHOP DRAWINGS, AS REQUIRED FOR PERMIT CHAPTER ONE OF THE INTERNATIONAL BUILDING CODE AND LOCAL AUTHORITIES.
4. THE CONTRACTOR SHALL SUBMIT A COMPLETE DESIGN PACKAGE FOR PROFESSIONAL ENGINEER AND LOCAL AUTHORITY REVIEW, AND SHALL WAIT FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. SUBMITTAL DOCUMENTS INCLUDE BUT ARE NOT LIMITED TO SHOP DRAWINGS, HYDRAULIC CALCULATIONS, HANGER SLASH SUPPORT ANALYSIS DATA INCLUDING SEISMIC CALCULATIONS, AND ALL OTHER DESIGN COMPONENTS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION, INTERNATIONAL BUILDING CODE, INTERNATIONAL FIRE CODE, NFPA STANDARDS, CLIENT DESIGN STANDARDS, AND CLIENT'S INSURANCE CARRIER REQUIREMENTS. THESE DOCUMENTS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION, OR PREPARED BY A NICET TECHNICIAN CERTIFIED IN THE APPROPRIATE SPECIALTY AREA AND CERTIFICATION LEVEL AS REQUIRED BY LOCAL AUTHORITIES.

SPRINKLER CODE NOTES

1. AUTOMATIC SPRINKLER SYSTEM SHALL COMPLY WITH SECTION 903 OF THE 2025 NEW YORK STATE BUILDING CODE (NYSBC), THE 2025 NEW YORK STATE FIRE CODE (NYSFC), AND NFPA 13-2022., AND APPLICABLE FM GLOBAL DATA SHEETS.
2. APPROVED AUTOMATIC SPRINKLER SYSTEM IN NEW BUILDINGS AND STRUCTURES SHALL BE PROVIDED IN THE LOCATIONS DESCRIBED IN SEC. 903.2 OF THE NYSBC.
3. AUTOMATIC SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH SEC. 903.3.1 THROUGH 903.3.5 OF THE NYSBC.
4. AUTOMATIC SPRINKLERS SHALL NOT BE REQUIRED IN THE ROOMS OR AREAS WHICH ARE LISTED IN 903.3.1.1.1 OF THE NYSBC AS LONG AS AN APPROVED AUTOMATIC FIRE DETECTION SYSTEM IN ACCORDANCE WITH SEC. 907.2 AND AN ALTERNATIVE EXTINGUISHING SYSTEM IN ACCORDANCE WITH SEC. 904.
5. SPRINKLERS SHALL NOT BE OMITTED FROM ANY ROOM MERELY BECAUSE IT IS DAMP, OF FIRE-RESISTANCE-RATED CONSTRUCTION OR CONTAINS ELECTRICAL EQUIPMENT AS PER SEC. 903.3.1.1.1 OF THE NYSFC.
6. WHERE AN AUTOMATIC SPRINKLER SYSTEM IS TO BE INSTALLED, QUICK-RESPONSE AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN THE AREAS LISTED IN SEC. 903.3.2 OF THE NYSBC.
7. AUTOMATIC SPRINKLERS SHALL BE INSTALLED WITH DUE REGARD TO OBSTRUCTIONS THAT WILL DELAY ACTIVATION OR OBSTRUCT THE WATER DISTRIBUTION PATTERN. AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN OR UNDER COVERED KIOSKS, DISPLAYS, BOOTH, CONCESSION STANDS, OR EQUIPMENT THAT EXCEEDS 4 FEET IN WIDTH. NOT LESS THAN 3 FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN AUTOMATIC SPRINKLERS AND TOP OF PILES OF COMBUSTIBLE FIBERS SEC. 903.3.3 OF THE NYSBC.
8. WATER SUPPLIES FOR AUTOMATIC SPRINKLER SYSTEM SHALL COMPLY WITH SEC. 903.3.5 OF THE NYSBC. THE POTABLE WATER SUPPLY SHALL BE PROTECTED AGAINST BACK FLOW IN ACCORDANCE WITH THE REQUIREMENTS OF SEC. 903.3.5 OF THE NYSBC AND THE INTERNATIONAL PLUMBING CODE.
9. THE DOCUMENTS OR PORTIONS THERE OF LISTED IN CHAPTER 2 OF NFPA 13-2022 ARE REFERENCED WITHIN NFPA 13 AND SHALL BE CONSIDERED PART OF THE REQUIREMENTS OF THIS DOCUMENT.
10. OCCUPANCY CLASSIFICATION SHALL COMPLY WITH CHAPTER 19 OF NFPA 13-2022.
11. REQUIREMENTS FOR CORRECT USE OF SPRINKLER SYSTEM COMPONENTS SHALL COMPLY WITH CHAPTER 7 OF NFPA 13-2022.
12. THE K-FACTOR, RELATIVE DISCHARGE, AND MARKING IDENTIFICATION FOR SPRINKLERS HAVING DIFFERENT ORIFICE SIZES SHALL BE IN ACCORDANCE WITH TABLE 7.2.2.1 OF NFPA 13-2022.
13. AUTOMATIC SPRINKLERS SHALL HAVE THEIR FRAME ARMS, DEFLECTOR, COATING MATERIAL, OR LIQUID BULB COLORED IN ACCORDANCE WITH THE REQUIREMENTS OF TABLE 7.2.4.1 OF NFPA 13-2022.
14. ALL CONTROL, DRAIN, AND TEST CONNECTION VALVES SHALL BE PROVIDED WITH PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC IDENTIFICATION SIGNS AS PER SECTION SEC. 16.9.12.1 OF NFPA 13-2022.
15. THE MAXIMUM FLOOR AREA OR ANY ONE FLOOR TO BE PROTECTED BY A SINGLE RISER FROM A CONTROL VALVE AND ALARM DEVICE SHALL COMPLY WITH SEC. 4.4.1 OF NFPA 13-2022.
16. WHERE CIRCUMSTANCES REQUIRE THE USE OF OTHER THAN ORDINARY TEMPERATURE-RATED SPRINKLERS, STANDARD RESPONSE SPRINKLERS SHALL BE PERMITTED TO BE USED SEC. 9.4.3.1 OF NFPA 13-2022.
17. SPRINKLERS OF INTERMEDIATE AND HIGH TEMPERATURE RATINGS SHALL BE INSTALLED IN SPECIFIC LOCATIONS AS REQUIRED BY SEC. 9.4.2 OF NFPA 13-2022.
18. SPRINKLERS SHALL BE LOCATED, SPACED AND POSITIONED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 9.5 OF NFPA 13-2022.
19. PROTECTION AREAS AND MAXIMUM SPACING FOR EACH HAZARD SHALL COMPLY WITH TABLE 10.2.4.2.1(a), (b), (c), AND (d) OF NFPA 13-2022.
20. DRAIN CONNECTIONS FOR SYSTEMS SUPPLY RISERS AND MAINS SHALL BE SIZED AS SHOWN IN TABLE 16.10.4.2 OF NFPA 13-2022.
21. TYPES OF HANGERS SHALL BE ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF NFPA 13-2022.
22. MAXIMUM DISTANCE BETWEEN HANGERS SHALL BE COMPLY WITH TABLE 17.4.2.1(a) OF NFPA 13-2022.
23. HOSE STREAM DEMAND AND WATER SUPPLY DURATION REQUIREMENT SHALL COMPLY WITH TABLE 19.3.3.1.2 OF NFPA 13-2022.
24. THE WATER SUPPLY FOR SPRINKLERS SHALL BE DETERMINED BY DENSITY/AREA CURVE, FIGURE 19.3.3.1.1 OF NFPA 13-2022.
25. HYDRAULIC DESIGN AREA REDUCTION FOR QUICK RESPONSE SPRINKLERS SHALL COMPLY WITH FIGURE 19.2.3.2.3.1 OF NFPA 13-2022.
26. DESIGN CRITERIA OF WATER CURTAIN SHALL COMPLY WITH SEC. 19.4.3 OF NFPA 13-2022.
27. THE SPRINKLER SYSTEM SHALL BE HYDROSTATICALLY TESTED AT 200 PSI AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS AS PER SECTION 28.2.1.1 OF NFPA 13-2022. PORTIONS OF SYSTEMS NORMALLY SUBJECTED TO SYSTEM WORKING PRESSURE IN EXCESS OF 150 PSI SHALL BE TESTED AT 50 PSI IN EXCESS OF SYSTEM WORKING PRESSURE AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS, PER NFPA 13-2022 SEC. 28.2.1.2.
28. MODIFICATIONS AFFECTING 20 OR FEWER SPRINKLERS SHALL NOT REQUIRE TESTING IN EXCESS OF SYSTEM WORKING PRESSURE IN ACCORDANCE WITH SECTION 28.2.1.4.1 OF NFPA 13-2022.
29. A SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH NFPA 13 SHALL BE PROPERLY INSPECTED, TESTED, AND MAINTAINED IN ACCORDANCE WITH NFPA 25, STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS AND THE INTERNATIONAL FIRE CODE, TO PROVIDE AT LEAST THE SAME LEVEL OF PERFORMANCE AND PROTECTION AS DESIGNED.
30. PAINTING OF DEDICATED SPRINKLER PIPING AND VALVE HANDLES SHALL BE PERFORMED AS REQUIRED BY THE NYSBC, NYSFC, AND LOCAL AHJ.
31. A MANUAL OR AUTOMATIC AIR VENT SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13-2022 SECTIONS 8.1.5 AND 16.7.
32. THE CONTRACTOR SHALL ARRANGE SPRINKLER SYSTEMS FOR FLUSHING AS PER NFPA 13.2022 SECTION 16.6.

DRAWING NOTATIONS

- (#) — PROPOSED WORK KEYED NOTE TAG
- (#) — DEMOLITION KEYED NOTE TAG
- POINT OF CONNECTION
- POINT OF DISCONNECTION
- (?) — REVISION SYMBOL
- PROPOSED WORK
- DEMOLITION
- EXISTING
- NOT IN SCOPE

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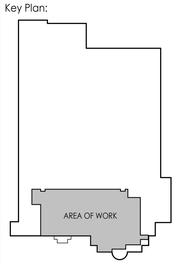
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Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

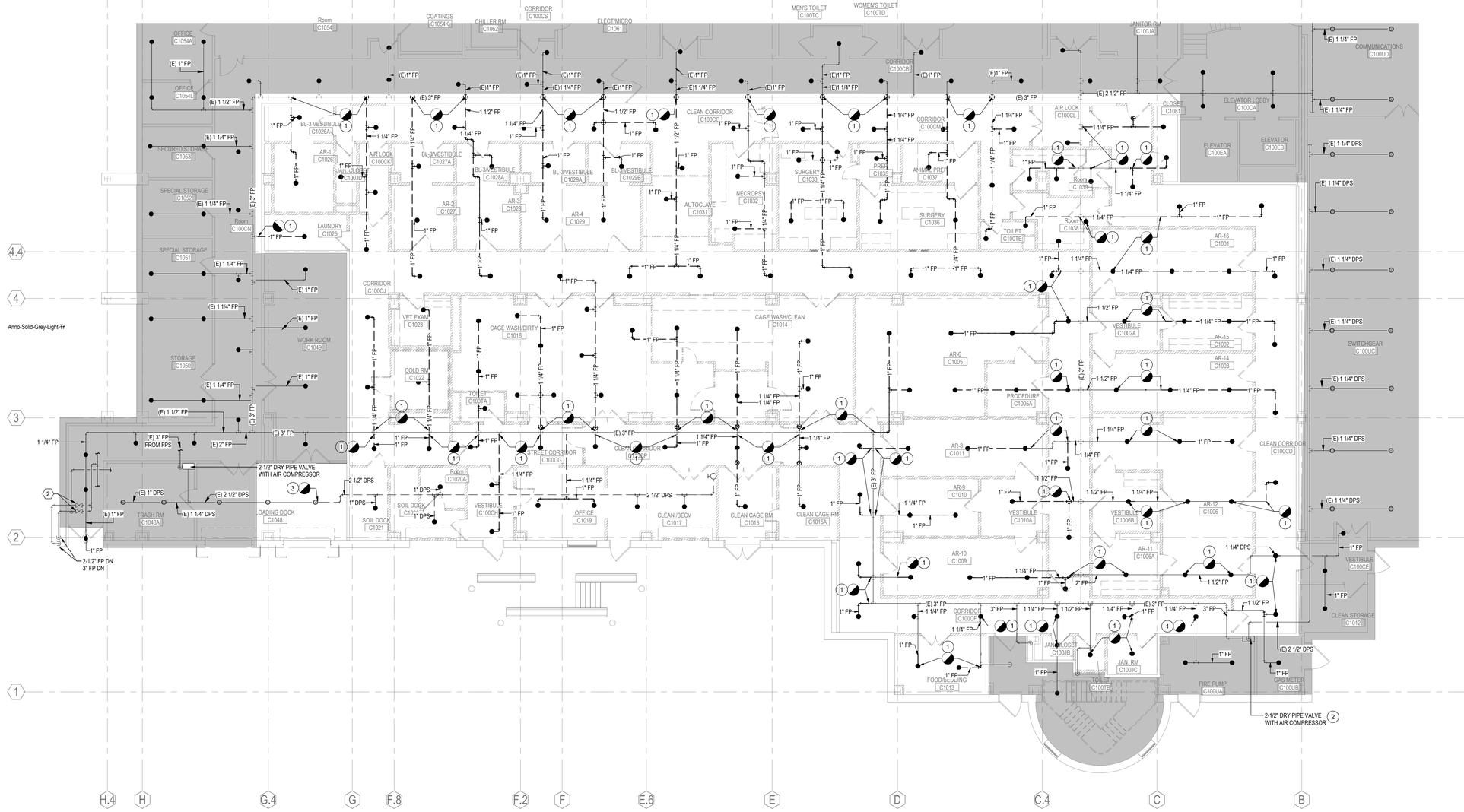
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FIRE PROTECTION LEAD SHEET

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Revision: **0**
Drawing No. **F000**

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ORIGINAL SHEET - ARCH E1



1 FD100 **FIRE PROTECTION - FIRST FLOOR DEMOLITION AND REMOVAL PLAN**

1/8" = 1'-0"

KEY NOTES

1. REMOVE EXISTING SPRINKLER AND ASSOCIATED FIRE PROTECTION PIPING TO LIMIT OF REMOVAL SHOWN ON PLANS. EXISTING FIRE PROTECTION PIPE SHALL BE CAPPED FOR RECONNECTION.
2. UTILIZE EXISTING VALVE AT RISER TO ISOLATE SPRINKLER PIPE FEED SERVING THE AREA OF WORK.
3. POINT OF DISCONNECTION OF EXISTING DRY PIPE SYSTEM.

GENERAL NOTES

A. ALL UTILITY SHUTDOWNS REQUIRED TO CONDUCT CONSTRUCTION WORK WHICH IMPACTS LOCATIONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS. COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 10 DAYS IN ADVANCE.

B. PATCH, PAINT, AND REPAIR ALL OPENINGS REMAINING AFTER DEMOLITION OF MATERIALS.

C. THE EXISTING SPRINKLER AND PIPING LAYOUT SHOWN IS BASED ON ORIGINAL DESIGN DRAWINGS FROM 1991. EXISTING SPRINKLER SHOP DRAWINGS DO NOT EXIST FOR THIS AREA OF THE BUILDING. BECAUSE OF THE EXISTING USE OF THE SPACE, EXACT PIPE ROUTING AND ELEVATION COULD NOT BE VERIFIED. SPRINKLER CONTRACTOR TO FIELD DOCUMENT THE ACTUAL SYSTEM LAYOUT DURING THE DEMOLITION PHASE, AND REPORT SERIOUS DISCREPANCIES TO THE ENGINEER.

D. VERIFY EXISTING TO REMAIN SPRINKLER MAIN AND MODIFY AS REQUIRED TO COORDINATE WITH PROPOSED MODIFICATIONS.

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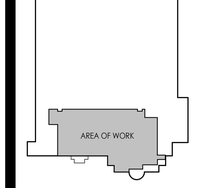
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Key Plan:



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SUCF#: 191030

Project No.:225306010

FIRE PROTECTION DEMOLITION PLAN

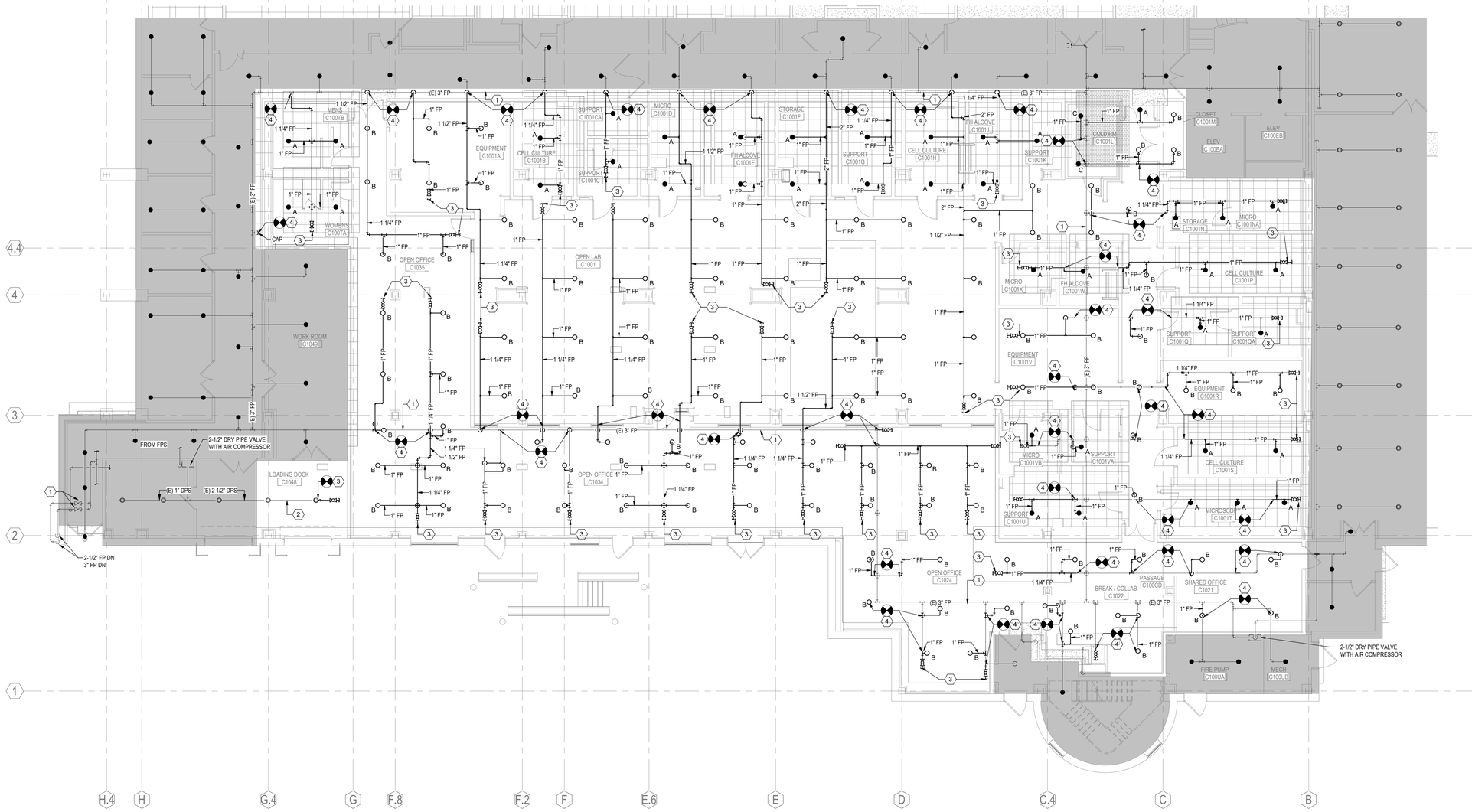
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Drawing No. **FD100**

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ORIGINAL SHEET - ARCH E1



1 FIRE PROTECTION - FIRST FLOOR PLAN

F100 — 1/8" = 1'-0"

KEY NOTES

1. EXISTING 3"MAIN TO REMAIN.
2. EXISTING DRY PIPE SYSTEMS TO REMAIN.
3. CAP OPEN ENDED PIPE AFTER FLUSH VALVE. REFER TO SHEET F500 DETAIL 7.
4. CONNECT TO EXISTING SPRINKLER LINE AND ROUTE AS INDICATED TO PROVIDE NEW SPRINKLER COVERAGE.

GENERAL NOTES

A. ALL UTILITY SHUTDOWNS REQUIRED TO CONDUCT CONSTRUCTION WORK WHICH IMPACTS LOCATIONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS. COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 10 DAYS IN ADVANCE.

B. THE EXISTING SPRINKLER AND PIPING LAYOUT SHOWN IS BASED ON ORIGINAL DESIGN DRAWINGS FROM 1991. EXISTING SPRINKLER SHOP DRAWINGS DO NOT EXIST FOR THIS AREA OF THE BUILDING. BECAUSE OF THE EXISTING USE OF THE SPACE, EXACT PIPE ROUTING AND ELEVATION COULD NOT BE VERIFIED. SPRINKLER CONTRACTOR TO FIELD DOCUMENT THE ACTUAL SYSTEM LAYOUT DURING THE DEMOLITION PHASE, AND REPORT AND SERIOUS DISCREPANCIES TO THE ENGINEER.

C. SPRINKLER SYSTEMS SHALL BE HYDRAULICALLY CALCULATED PER NFPA 13-2016 BY THE INSTALLATION CONTRACTOR. THE FIRE PROTECTION WORK SHALL COMPLY WITH THE FIRE CODE OF NEW YORK STATE, NFPA-101 AND APPLICABLE FM GLOBAL DATA SHEETS.

D. PROVIDE FLUSHING CONNECTIONS WITH VALVE FOR EACH BRANCH LINE PER CORNELL DESIGN AND CONSTRUCTION STANDARDS.

E. PROVIDE AUTOMATIC AIR VENT WITHIN SPACE PER NFPA 13.

F. PROVIDE PROVISIONS FOR TRAPPED PIPING DRAINAGE PER NFPA 13.

G. VERIFY EXISTING TO REMAIN SPRINKLER MAIN AND MODIFY AS REQUIRED TO COORDINATE WITH PROPOSED MODIFICATIONS.

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Key Plan:

Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

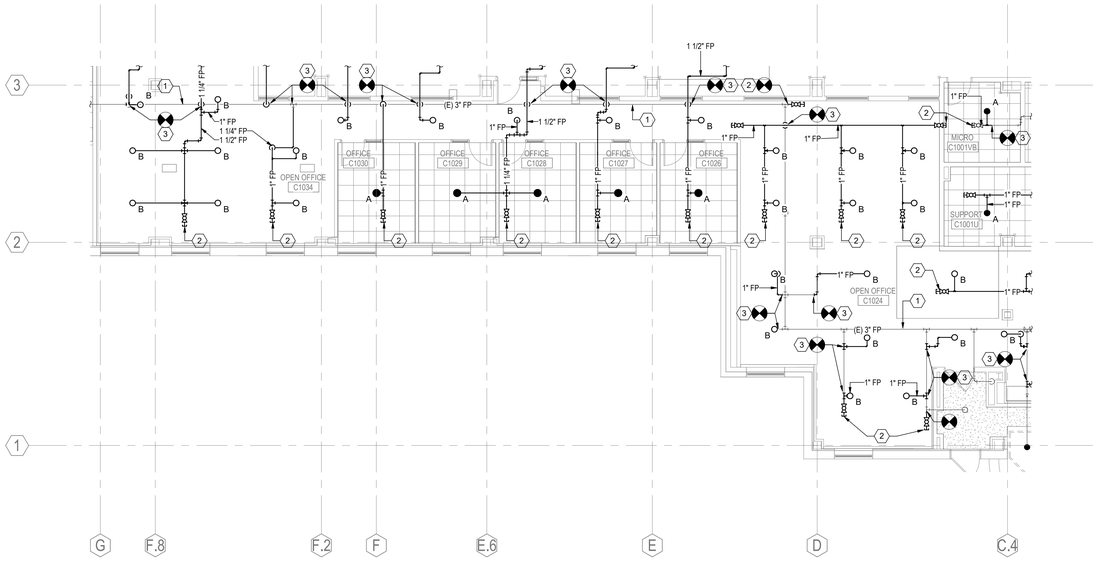
Project No.:225306010

FIRE PROTECTION FLOOR PLAN

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Revision:**0**
Drawing No. **F100**

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ORIGINAL SHEET - ARCH E1



1 FIRE PROTECTION - FIRST FLOOR PLAN - ADD ALTERNATE #2

F101 1/8" = 1'-0"

KEY NOTES

#	
1	EXISTING 3"MAIN TO REMAIN.
2	CAP OPEN ENDED PIPE AFTER FLUSH VALVE. REFER TO SHEET F500 DETAIL 7.
3	CONNECT TO EXISTING SPRINKLER LINE AND ROUTE AS INDICATED TO PROVIDE SPRINKLER COVERAGE.

GENERAL NOTES

A. ALL UTILITY SHUTDOWNS REQUIRED TO CONDUCT CONSTRUCTION WORK WHICH IMPACTS LOCATIONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS. COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 10 DAYS IN ADVANCE.

B. THE EXISTING SPRINKLER AND PIPING LAYOUT SHOWN IS BASED ON ORIGINAL DESIGN DRAWINGS FROM 1991. EXISTING SPRINKLER SHOP DRAWINGS DO NOT EXIST FOR THIS AREA OF THE BUILDING. BECAUSE OF THE EXISTING USE OF THE SPACE, EXACT PIPE ROUTING AND ELEVATION COULD NOT BE VERIFIED. SPRINKLER CONTRACTOR TO FIELD DOCUMENT THE ACTUAL SYSTEM LAYOUT DURING THE DEMOLITION PHASE, AND REPORT AND SERIOUS DISCREPANCIES TO THE ENGINEER.

C. SPRINKLER SYSTEMS SHALL BE HYDRAULICALLY CALCULATED PER NFPA 13-2016 BY THE INSTALLATION CONTRACTOR. THE FIRE PROTECTION WORK SHALL COMPLY WITH THE FIRE CODE OF NEW YORK STATE, NFPA-101 AND APPLICABLE FM GLOBAL DATA SHEETS.

D. PROVIDE FLUSHING CONNECTIONS WITH VALVE FOR EACH BRANCH LINE PER CORNELL DESIGN AND CONSTRUCTION STANDARDS.

E. PROVIDE AUTOMATIC AIR VENT WITHIN SPACE PER NFPA 13.

F. PROVIDE PROVISIONS FOR TRAPPED PIPING DRAINAGE PER NFPA 13.

G. VERIFY EXISTING TO REMAIN SPRINKLER MAIN AND MODIFY AS REQUIRED TO COORDINATE WITH PROPOSED MODIFICATIONS.

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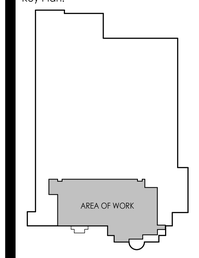
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Key Plan:



Cornell University

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SUCF#: 191030

Project No.:225306010

FIRE PROTECTION FLOOR PLAN ADD ALTERNATE #2

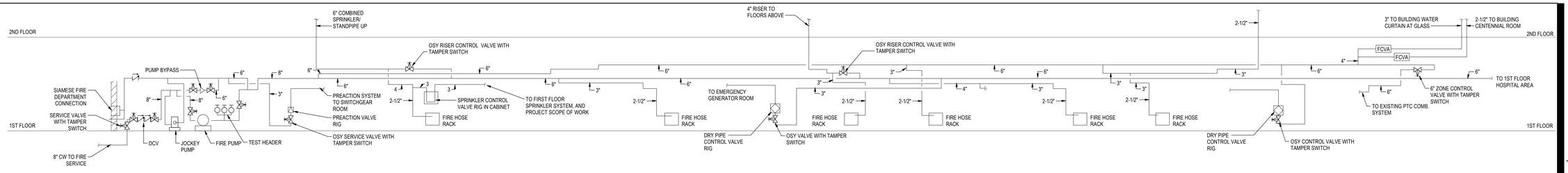
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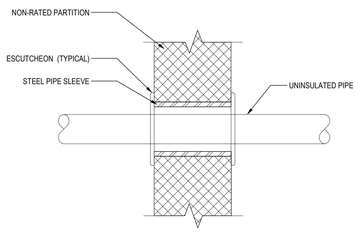
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ORIGINAL SHEET - ARCH E1



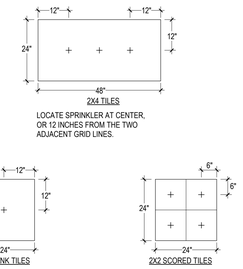
1 F500 FIRST FLOOR FIRE PROTECTION RISER DIAGRAM - FOR REFERENCE

N.T.S.



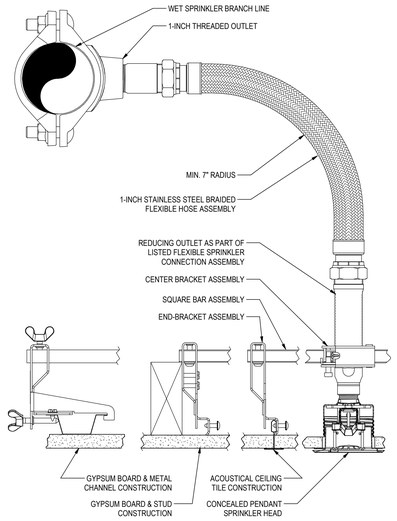
2 F500 UNINSULATED PIPE PENETRATIONS OF NON-RATED PARTITIONS

N.T.S.



3 F500 SPRINKLER PLACEMENT DETAIL

N.T.S.



NOTES

1. LISTED FLEXIBLE SPRINKLER HOSE FITTINGS AND THEIR ANCHORING COMPONENTS INTENDED FOR USE IN INSTALLATIONS CONNECTING THE SPRINKLER SYSTEM PIPING TO SPRINKLERS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LISTING, INCLUDING ANY INSTALLATION INSTRUCTIONS.
2. WHEN INSTALLED AND SUPPORTED BY SUSPENDED CEILINGS, THE CEILING SHALL MEET ASTM C 635 AND ASTM C 636.
3. THE FLEXIBLE SPRINKLER HOSE SHALL NOT EXCEED 3 FEET IN LENGTH.
4. ONLY ONE SIDE OF THE MOUNTING BRACKETS HAVE BEEN SHOWN.
5. DETAIL IS BASED ON VICTAULIC VIC-FLEX.

6 F500 FLEXIBLE SPRINKLER HEAD CONNECTION DETAIL

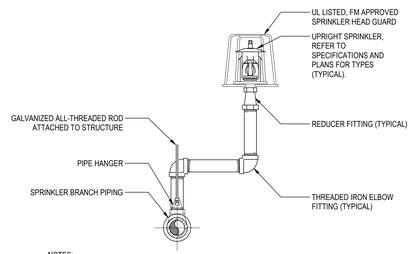
N.T.S.

NOTES:

1. CLEVIS HANGERS REQUIRED ON ALL PIPING 4" AND LARGER.
2. SWIVEL HANGERS ARE AN ACCEPTABLE ALTERNATE TO CLEVIS HANGERS ON PIPING 3" AND SMALLER.
3. HANGERS AND RODS SHALL BE HOT-DIPPED GALVANIZED IN AREAS NOT SUBJECT TO CORROSION.
4. IN CORROSIVE ENVIRONMENTS, HANGERS AND RODS SHALL BE STAINLESS STEEL.

4 F500 TYPICAL FIRE PROTECTION PIPE HANGER DETAILS

N.T.S.

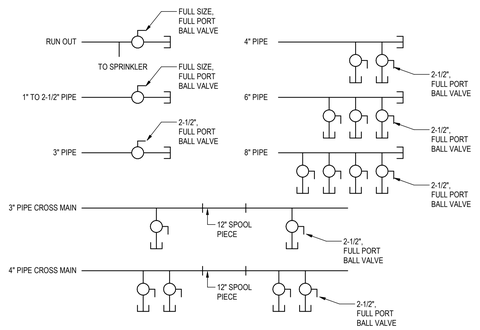


NOTES:

1. SPRINKLER HEAD GUARD ONLY REQUIRED WHERE SPRINKLER HEADS ARE INSTALLED BELOW 8FT A.F.F., IN MECHANICAL ROOMS, AND ANY OTHER LOCATION WHERE SPRINKLER HEAD MAY BE IMPACTED.
2. UPRIGHT SPRINKLER SHALL BE INSTALLED WITH DEFLECTOR 1" TO 12" FROM UNDERSIDE OF DECK ABOVE PER NFPA 13 REQUIREMENTS. WHERE OBSTRUCTED CONSTRUCTION AS DEFINED BY NFPA 13, SPRINKLER HEAD DEFLECTOR MAY BE INSTALLED UP TO 22" FROM THE UNDERSIDE OF DECK.

5 F500 UPRIGHT SPRINKLER HEAD WITH GUARD DETAIL

N.T.S.



FLUSHING FULL PORT BALL VALVES SHALL BE PROVIDED ON UNDERGROUND MAINS (INSIDE THE BUILDING) AND ON ABOVE-GROUND MAINS, CROSS-MAINS, BRANCH LINES AND RUN OUTS ON PROPOSED AND EXISTING WITHIN THE AREA OF WORK SPRINKLER SYSTEMS (WET AND DRY), TO FACILITATE AND FUTURE PERIODIC INTERNAL INSPECTIONS, OBSTRUCTION INVESTIGATIONS AND AS-NEEDED FLUSHING WORK. VALVES SHALL BE INSTALLED TO BE OBTAIN THE NFPA 25 REQUIRED MINIMUM VELOCITY OF 10 FT/SEC FOR ANY GIVEN PIPE SIZE.

IN A LOOPED SYSTEM, PROVIDE A 12" SPOOL PIECE WITH THE REQUIRED QUANTITY OF 2-1/2" BALL VALVES ON EITHER SIDE.

7 F500 FLUSHING VALVE DETAIL

N.T.S.

SPRINKLER CRITERIA SCHEDULE

SPACE/ROOM	HAZARD CLASSIFICATION	HYDRAULIC CRITERIA
OFFICE SPACE, CONFERENCE ROOMS, RESTROOMS	FM HAZARD CATEGORY 1	SPRINKLER DENSITY: 0.10 GPM/SQ.FT. SPRINKLER AREA: 1,500 SQ.FT. SPRINKLER COVERAGE AREA: 225 SQ.FT. PER HEAD MAX. HOSE ALLOWANCE: 250 GPM SUPPLY DURATION: 60 MINUTES
LAB SPACES, MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS	FM HAZARD CATEGORY 2	SPRINKLER DENSITY: 0.20 GPM/SQ.FT. SPRINKLER AREA: 2,500 SQ.FT. SPRINKLER COVERAGE AREA: 130 SQ.FT. PER HEAD MAX. HOSE ALLOWANCE: 250 GPM SUPPLY DURATION: 60 MINUTES

VMC FIRE PUMP FLOW TEST DATA

PERCENT LOAD	PUMP SUCTION PRESSURE (PSI)	DISCHARGE PRESSURE (PSI)	NET PRESSURE (PSI)	PUMP FLOW (GPM)	RPM
CHURN	64	175	111	N/A	1795
50%	50	154	104	750	1789
100%	40	130	90	1,500	1781
150%	25	90	65	2,248	1778

NOTES:
1. TEST DATA IS FROM 5/11/23, MORE THAN ONE YEAR OLD. THE FIRE PROTECTION CONTRACTOR SHALL PERFORM A FIRE PUMP FLOW TEST AS PART OF THIS SCOPE OF WORK FOR THE PURPOSES OF PERFOMING HYDRAULIC CALCULATIONS.

FIRE PROTECTION VALVE SCHEDULE

VALVE TYPE	1/2" TO 2"	2-1/2" TO 12"
OS&Y GATE	NIBCO T-104-0 (2" ONLY; 175 WWP)	NIBCO F-607-RWS (175 WWP) NIBCO F-697-0 (350 WWP) NIBCO F-667-0 (500 WWP)
BUTTERFLY	NIBCO LD-3510-8 (2" ONLY; 300 WWP)	NIBCO GD-6765-8N (350 WWP)
BALL	MILWAUKEE BUTTERBALL BB-SCS02 (350 WWP)	
CHECK	NIBCO F-908-W (175 WWP) NIBCO F-968-B (500 WWP)	
GATE	NIBCO F-607-RW (175 WWP) NIBCO F-967-0 (350 WWP) NIBCO F-667-0 (500 WWP)	

FIRE PROTECTION PIPING SYSTEM APPLICATION SCHEDULE

PIPING SYSTEM	PIPING SERVICE DESIGNATION	PIPING LOCATION	PIPE SIZE	PIPING MATERIAL: DUCTILE IRON - CLASS 52	PIPING MATERIAL: BLACK STEEL - SCH. 40	PIPING MATERIAL: GALVANIZED STEEL - SCH. 40	FITTINGS/JOINTS: MECHANICAL JOINT - CLASS 350	FITTINGS/JOINTS: CUT GROOVED - 300 PSI FITTINGS	FITTINGS/JOINTS: ROLL GROOVED - 300 PSI FITTINGS	FITTINGS/JOINTS: SCREWED - CLASS 150 FITTINGS	FITTINGS/JOINTS: WELDED - ASME B16.9	CONSTRUCTION: OPERATING TEMPERATURE (°F)	CONSTRUCTION: MINIMUM WORKING PRESSURE (PSI)	CONSTRUCTION: TEST PRESSURE (PSI)	CONSTRUCTION: TEST DURATION (HRS)	CONSTRUCTION: ACCEPTANCE LEVEL	NOTES
WET-PIPE SPRINKLER SYSTEM, STANDARD PRESSURE	FP	ABOVEGROUND	NPS 2 AND SMALLER		X					X		40 - 100	175	225	2	ZERO LOSS/LEAKS	
			NPS 2 1/2 AND LARGER		X				X								

SPRINKLER HEAD SCHEDULE

DESIGNATION	TYPE	NOMINAL TEMPERATURE RATING (°F)	MAXIMUM AMBIENT CEILING TEMPERATURE (°F)	COVER ASSEMBLY TEMPERATURE RATING (°F)	NOMINAL K-FACTOR	MAXIMUM COVERAGE AREA (SQ.FT.)	RESPONSE	THERMAL ELEMENT	HEAD	BASIS OF DESIGN	SPRINKLER IDENTIFICATION NUMBER (SIN)	REMARKS
A	CONCEALED PENDANT	155	100	135	5.6	225/130	STANDARD	GLASS BULB	BRASS	VIKING	VK4621	SEE NOTE 1
B	UPRIGHT	155	100	-	5.6	130	STANDARD	GLASS BULB	BRASS	VIKING	VK3001	SEE NOTES 1,2,3
C	DRY BARREL PENDANT	155	100	-	5.6	130	STANDARD	GLASS BULB	BRASS	VIKING	VK154	SEE NOTE 1, 2, 4

NOTES:
1. INSTALL ALL SPRINKLER HEADS PER THE MANUFACTURER'S RECOMMENDATIONS AND UL/FM APPROVAL CONDITIONS.
2. SPRINKLERS IN AREAS WITH LOW CLEARANCE, UNDER 8'-0", SHALL BE PROTECTED WITH LISTED GUARDS.
3. USE INTERMEDIATE TEMPERATURE RATING FOR MECHANICAL ROOMS AND WHERE REQUIRED PER NFPA 13.
4. PROVIDE MINIMUM EXPOSED BARREL LENGTH OF DRY SPRINKLER AS PER SPRINKLER LISTING AND NFPA 13 FOR THE TEMPERATURE APPLICATION.

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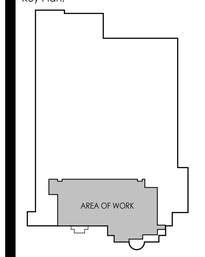
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SUCF#: 191030

Project No.:225306010

FIRE PROTECTION DETAILS AND SCHEDULES

Scale: As indicated

Revision: **0**

Drawing No. **F500**

*Pick location in Project Information
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ORIGINAL SHEET - ARCH E1

BRANCH CIRCUITING

##.## XXX###	CIRCUIT NUMBER(S) SOURCE PANELBOARD — CIRCUIT NUMBER(S) INDICATED ABOVE LINE, LETTERED & NUMBERED PANEL NAME BELOW (UNLESS INDICATED OTHERWISE)
	HOME RUN/BRANCH CIRCUIT TO CKT/PANELBOARD INDICATED USING 2#12, 1#12EG IN 3/4"C, 20A/1P CB, 120V, UNLESS NOTED OTHERWISE. PROVIDE DEDICATED NEUTRALS FOR COMPUTER CIRCUITS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

GENERAL LINEWORK DESCRIPTIONS & DRAWINGS NOTES

FOR ALL ELECTRICAL DEVICES & SYMBOLS

PROPOSED WORK

EXISTING WORK (E) - TO REMAIN UNLESS NOTED OTHERWISE

WORK TO BE REMOVED - DEVICE AND ALL ASSOCIATED ELECTRICAL WORK SHALL BE REMOVED BACK TO THE SOURCE UNLESS NOTED OTHERWISE

SYMBOL WITH TAIL INDICATES WALL INSTALLATION *(DEVICES SHOWN ON WALL WITH OR WITHOUT TAIL ARE TO BE WALL MOUNTED, TAIL ADDED TO DEVICES WHICH ARE TYPICALLY CEILING MOUNTED FOR CLARITY)*

(#) DRAWING KEYED NOTES

[#] DEMOLITION KEYED NOTES

FIRE ALARM, GAS DETECTION, & MASS NOTIFICATION DEVICES

S	SMOKE DETECTOR
H	HEAT DETECTOR
CO	CARBON MONOXIDE DETECTOR
CO2	CARBON DIOXIDE DETECTOR WITH DISPLAY MONITOR
F	FIRE ALARM MANUAL PULL STATION
F	FIRE ALARM SPEAKER/HORN WITH STROBE
F	FIRE ALARM STROBE LIGHT
F	FIRE ALARM EMERGENCY SPEAKER
CO	CARBON MONOXIDE SPEAKER/HORN WITH STROBE
CO	CARBON MONOXIDE STROBE LIGHT
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
DH	FIRE ALARM CONNECTION TO ELECTRO-MAGNETIC DOOR HOLDER
SD	FIRE ALARM CONNECTION TO SMOKE DAMPER
DSD	DUCT SMOKE DETECTOR REMOTE TEST STATION WITH INDICATOR LIGHT
FSD	FAN SHUT DOWN RELAY
SRX	BEAM TYPE SMOKE DETECTOR - RECEIVER
STX	BEAM TYPE SMOKE DETECTOR - TRANSMITTER
TS	SUPERVISORY TAMPER SWITCH
FS	WATER FLOW SWITCH
PS	PRESSURE SWITCH
SH	SMOKE HATCH
ECCP	EMERGENCY VOICE EVACUATION SYSTEM; EMERGENCY COMMUNICATION CONTROL PANEL
CM	CONTROL MODULE
MM	MONITORING MODULE
FBC	FIRE BARRIER CONTROL PANEL

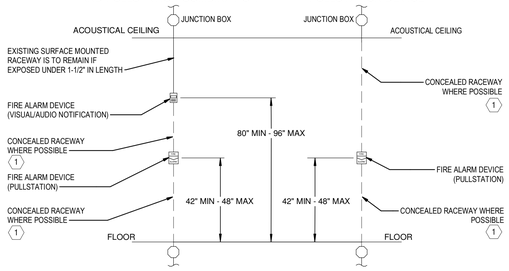
FIRE ALARM DEMOLITION GENERAL NOTES

1. DISCONNECT AND REMOVE EXISTING EQUIPMENT, DEVICES, SYSTEMS, RACEWAYS, FEEDERS, BRANCH CIRCUITING, CABLING, ETC IN DEFINED "AREAS OF REMOVALS" UNLESS NOTED OTHERWISE, ALSO IN SPECIFIC LOCATIONS AS CALLED FOR, AND WHERE CONFLICTS FROM NEW CONSTRUCTION REQUIRE THE WORK. TAG ALL CIRCUITS THAT ARE TO BE REUSED. AREAS OF REMOVALS SHALL ALSO INCLUDE ELECTRICAL REMOVALS FOR SELECTIVE WALLS AND/OR CEILINGS FOR MINOR ALTERATIONS. PROVIDE CUTTING, PATCHING AND PAINTING TO MATCH SURROUNDING SURFACE UNLESS NOTED OTHERWISE.
2. WHERE EXISTING WALLS ARE TO REMAIN, REMOVE ALL EXPOSED RACEWAYS, SURFACE AND RECESSED OUTLET BOXES, ETC. SERVING THE FIRE ALARM SYSTEM WHICH ARE NOT TO BE REUSED. WHERE PROPOSED CONDUITS AND DEVICES ARE TO BE ADDED TO EXISTING WALLS IN FINISHED ROOMS, THEY SHALL BE CONCEALED BY CUTTING AND PATCHING THE WALLS UNLESS OTHERWISE NOTED.
3. REARRANGE EXISTING CONDUITS AND WIRING TO ACCOMMODATE PROPOSED CIRCUIT ARRANGEMENTS INDICATED AND TO MAINTAIN CONTINUITY OF EXISTING CIRCUITS FEEDING DEVICES THAT ARE TO REMAIN.
4. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND REINSTALL EXISTING ELECTRICAL EQUIPMENT TO ACCOMMODATE THE WORK OF OR DISTURBED BY ALL TRADES.
5. STORE REMOVED FIRE ALARM DEVICES AND EQUIPMENT, ETC. ON JOB SITE FOR REUSE UNTIL SUBSTANTIAL COMPLETION OR PROJECT CLOSEOUT. PROVIDE OWNER RIGHT OF FIRST REFUSAL OF ELECTRICAL EQUIPMENT OTHERWISE REMOVE THOSE FROM SITE AT CONTRACTORS EXPENSE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS THAT THE OWNER DOES NOT WISH TO SALVAGE.
6. EXISTING DEVICE LOCATIONS WERE IDENTIFIED AS COMPLETELY AS POSSIBLE BY A SITE SURVEY AND BY RECORD DOCUMENTS AS AVAILABLE. BE RESPONSIBLE FOR PROPER DEMOLITION AND REWORK OF DEVICES NOT SHOWN ON DRAWINGS BUT NECESSARY FOR PROJECT RENOVATIONS TO CONFORM WITH INTENT OF DOCUMENTS. VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL DEMOLITION WORK REQUIRED TO COMPLETE THE NEW CONSTRUCTION. CONTRACTOR SHALL PROVIDE IN BASE BID A NOMINAL AMOUNT OF UNKNOWN BRANCH CIRCUITS, DEVICES, AND SYSTEMS WIRING BEING REMOVED OR RELOCATED FOR PROPOSED WORK.
7. WHERE DEMOLITION OF DEVICE OR EQUIPMENT AND REMOVAL OF CONDUIT OR OTHER ACCESSORY LEAVES OPENINGS IN THE FLOORS, WALLS, OR CEILINGS, SAME SHALL BE PATCHED AND PAINTED TO MATCH EXISTING ADJACENT FINISH. ALL OPENINGS IN FLOORS SHALL BE PINNED WITH REBAR.
8. IN AREAS OF DEMOLITION WHERE THE REMOVAL OF FIRE ALARM EQUIPMENT INTERFERES WITH THE NORMAL BUILDING OPERATIONS AND SYSTEMS, CONSULT WITH THE OWNER PRIOR TO PERFORMING ANY DEMOLITION.
9. WHERE UNFORESEEN CONDITIONS CONFLICT WITH CONTRACT DOCUMENTS, SUBMIT AN RFI PRIOR TO PROCEEDING WITH ANY WORK.
10. WHERE DEVICES ARE SCHEDULED FOR RELOCATION, DISCONNECT AND REMOVE EXISTING DEVICE AND REMOVE ASSOCIATED WIRING. RELOCATE DEVICE AS SHOWN, PROVIDE AND EXTEND WIRING AS REQUIRED, AND MATCH EXISTING.
11. WHERE REMOVALS AFFECT EXISTING CIRCUITS SCHEDULED TO REMAIN, MAINTAIN CONTINUITY OF POWER TO THESE CIRCUITS AND EXTEND WIRING AS NEEDED.
12. WHERE ANY EMPTY BACKBOXES OR EMPTY JUNCTION BOXES REMAIN DUE TO ELECTRICAL DEMOLITION, PROVIDE COVERPLATE(S) OVER EXISTING BOX(ES).
13. WHERE DEMOLITION NOTES SCHEDULE EXISTING FIRE ALARM DEVICES, SYSTEMS DEVICES, EQUIPMENT CONNECTIONS, ETC. TO BE "DISCONNECTED AND REMOVED IN THE ENTIRETY", THE CONTRACTOR SHALL DISCONNECT AND REMOVE THE EXISTING DEVICES, COVERPLATES, BRANCH CIRCUIT WIRING, CONDUIT OR RACEWAY, OUTLET AND/OR SPLICE BOX(ES) ETC. BACK TO EITHER LAST DEVICE SCHEDULED TO REMAIN, OR BACK TO POWER SOURCE.

FIRE ALARM GENERAL NOTES

1. FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL FIRE MARSHAL REQUIREMENTS, MANUFACTURER'S WRITTEN INSTRUCTIONS, UL REQUIREMENTS, FACTORY MUTUAL REQUIREMENTS, RECOGNIZED BEST INDUSTRY PRACTICES, AND THE LATEST ADOPTED APPLICABLE CODES AND REGULATIONS INCLUDING: NFPA 70, NFPA 72, NFPA 101, STATE OF NEW YORK UNIFORM FIRE PREVENTION AND BUILDING CODES. FURNISH AND INSTALL ALL FIRE ALARM EQUIPMENT, RACEWAY SYSTEM CONDUCTORS, DEVICES, AND ALL OTHER ACCESSORIES AS REQUIRED TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL FIRE ALARM SYSTEM. SYSTEMS AND COMPONENTS SHALL BE LISTED AND APPROVED FOR THE PURPOSE FOR WHICH THEY ARE INSTALLED AND INTENDED. FOLLOW MANUFACTURER'S CUT SHEET AS APPROPRIATE.
2. FOR EXACT LOCATIONS AND SURFACE FINISH CONDITIONS OF CEILINGS, WALLS, OR FLOORS, REFER TO ARCHITECTURAL DRAWINGS.
3. FOR EXACT LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS, WATER FLOW SWITCHES, AND TAMPER SWITCHES REFER TO HVAC / FP DRAWINGS.
4. ALL FIRE ALARM SYSTEM COMPONENTS SHALL BE UL LISTED OR FACTORY MUTUAL LISTED.
5. SINGLE MANUFACTURER. ALL FIRE ALARM SYSTEM COMPONENTS SHALL BE BY A SINGLE MANUFACTURER AND MATCH EXISTING SYSTEM.
6. MOUNTING HEIGHTS ARE TO CENTER OF DEVICE OR EQUIPMENT UNLESS NOTED OTHERWISE, EXCEPT FOR PENDANT LIGHTING WHICH ARE TO THE BOTTOM OF THE LUMINAIRE. FOR AREAS WITH DIFFERENT FLOOR LEVELS, HEIGHT IS BASED UPON CLOSEST FLOOR OR LANDING TO DEVICE, EQUIPMENT, OR LUMINAIRE. ELEVATIONS GIVEN ON LEGEND SHEET ARE UNLESS NOTED OTHERWISE ON DRAWINGS.
7. PROVIDE RACEWAY, WIRE AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED BRANCH CIRCUITS FROM DEVICE(S) TO FINAL OVERCURRENT DEVICE AND TO LOCAL CONTROL DEVICE(S) PER SPECIFICATIONS.
8. CIRCUITNG TO DEVICES/EQUIPMENT SHALL BE 2 #12, 1#12 EG (MULTIPLE HOMERUNS IN SAME CONDUIT MAY SHARE SAME EQUIPMENT GROUND.) FOR EACH 20 AMP CIRCUIT UNLESS OTHERWISE NOTED. CIRCUITS FOR ISOLATED GROUND RECEPTACLES SHALL BE 2 # 12 WITH 1 #12 SEPERATE ISOLATED EQUIPMENT GROUND FOR EACH 20 AMP CIRCUIT. ALL CIRCUITS SHALL HAVE SEPERATE NEUTRALS (CIRCUITS SHALL NOT SHARE NEUTRALS).
9. PROVIDE GROUNDING PER NEC. PROVIDE GREEN GROUND CONDUCTOR IN ALL BRANCH AND FEEDER CIRCUITS.
10. DO NOT INSTALL ANY PROPOSED WORK DIRECTLY ABOVE ANY ELECTRICAL PANELS, SWITCHBOARDS, SWITCHGEAR, OR TRANSFORMERS.
11. CIRCUIT NUMBERS SHOWN FOR EQUIPMENT TO BE CONNECTED TO EXISTING PANELBOARD(S) IS SHOWN FOR DESIGN INTENT ONLY AND MAY NOT CORRESPOND TO ACTUAL CIRCUIT BREAKER MOUNTING POSITION IN THE PANEL. UPDATE THE RECORD DRAWINGS & PANELBOARD DIRECTORY WITH THE ACTUAL CIRCUIT NUMBERS USED TO CORRESPOND TO THE PANEL DIRECTORY.
12. CONFIRM ALL LABELS AND ROOM NUMBERS WITH OWNER PRIOR TO FINALIZING LABELING AND PROGRAMMING.
13. COORDINATE FINAL DEVICE LOCATION WITH ALL TRADES AND FURNITURE/MILLWORK PLACEMENT PRIOR TO ROUGH-IN. GENERAL CONTRACTOR SHALL PROVIDE ALL DRILLING AND GROMMETING IN FURNITURE/CASEWORK FOR CORD ACCESS IF REQUIRED.
14. PROVIDE FIRESTOPPING AT ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, CEILINGS, & ROOFS AS CALLED OUT ON ARCHITECTURAL PLANS. PROVIDE ACOUSTICAL SEALANT AT PENETRATIONS THROUGH ALL NON-FIRE RATED WALLS, FLOORS, & CEILINGS.
15. PROVIDE CONDUIT EXPANSION JOINTS AT ALL EXPANSION JOINTS AS CALLED OUT ON ARCHITECTURAL PLANS.

TYPICAL FIRE ALARM AUDIO, VISUAL, AND PULLSTATION COMBINATION.



TYPICAL FIRE ALARM PULLSTATION DEVICE

DETAIL NOTES:

(1) PROVIDE ALL WORK TO FISH AND CONCEAL ALL RACEWAY WHERE POSSIBLE.

TYPICAL LOCATIONS OF FIRE ALARM DEVICES

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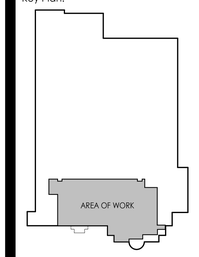
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07/02/2026

Key Plan:



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Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

FIRE ALARM LEGEND SHEET

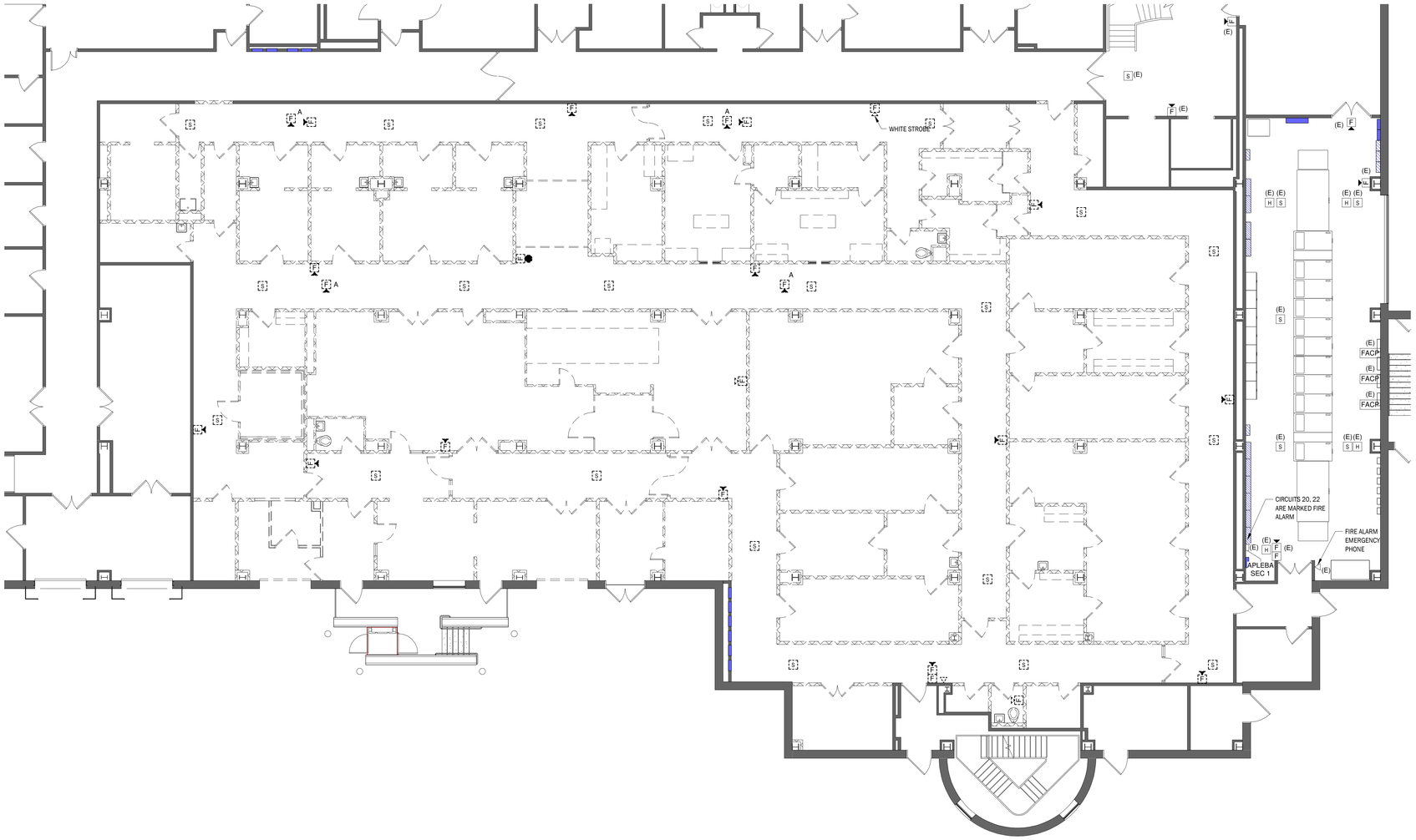
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Revision: **A**

Drawing No. **FA-001**

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ORIGINAL SHEET - ARCH E1



1 FAD-101 **01 - First Floor FA Demolition**
1/8" = 1'-0"

GENERAL NOTES - FIRE ALARM DEMOLITION

1. REMOVE ALL DEVICES FROM INITITAION CIRCUITS AND SIGNALLING CIRCUITS. CIRCUITS ARE CONNECTED TO DEVICES OUTSIDE THE AREA OF WORK. COORDINATE SHUTDOWNS REQUIRED FOR ALL FIRE ALARM WORK. RETURN ADJACENT AREAS TO FUNCTIONALITY BR TESTING ALL DEVICES LEFT ON SIGNALLING AND INITIATION CIRCUITS.

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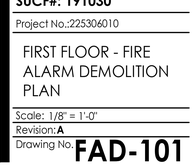
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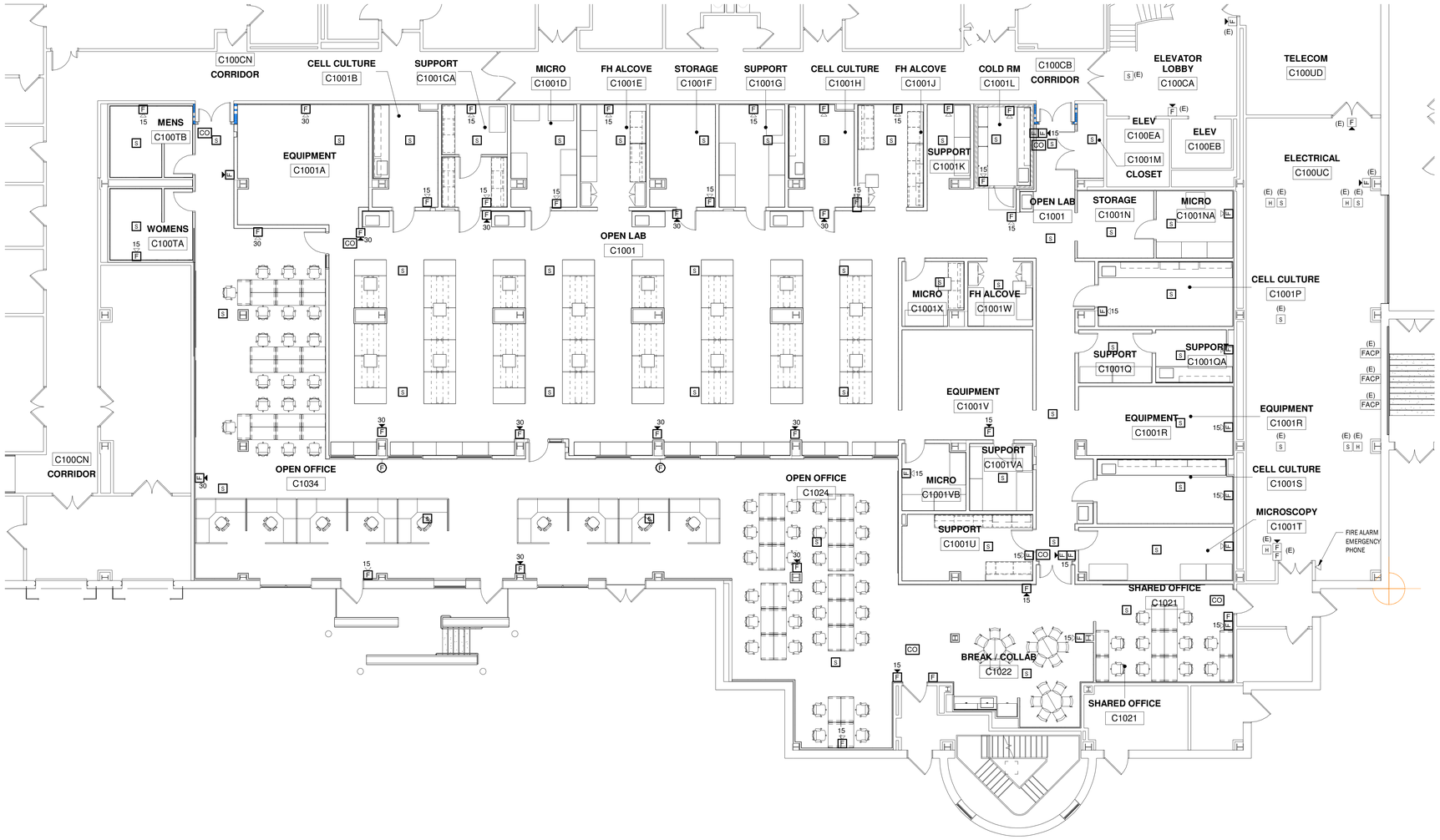
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FIRST FLOOR - FIRE ALARM DEMOLITION PLAN

Scale: 1/8" = 1'-0"
Revision: **A**
Drawing No. **FAD-101**

ORIGINAL SHEET - ARCH E1

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1 FA-101 **01 - First Floor FA New**

1/8" = 1'-0"

GENERAL NOTES - FIRE ALARM

1. REFER TO DRAWING FA-001 FOR SYMBOLS AND GENERAL PROJECT NOTES.
2. SMOKE DETECTORS SHALL BE INSTALLED NO CLOSER THAN 3'-0" FROM THE NEAREST HVAC DIFFUSER.
3. COORDINATE ALL INSTALLATIONS WITH EXISTING FIRE ALARM SYSTEM.

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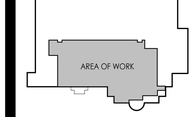
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Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

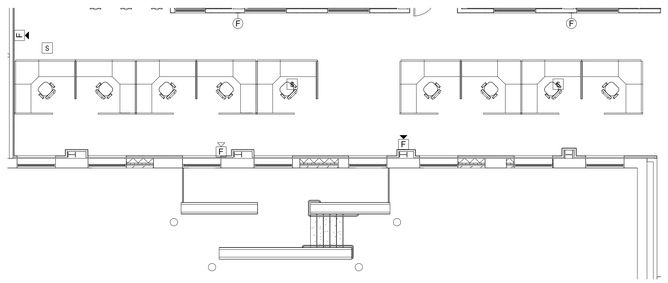
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FIRST FLOOR - FIRE ALARM PLAN

Scale: As indicated
Revision: **A**
Drawing No. **FA-101**

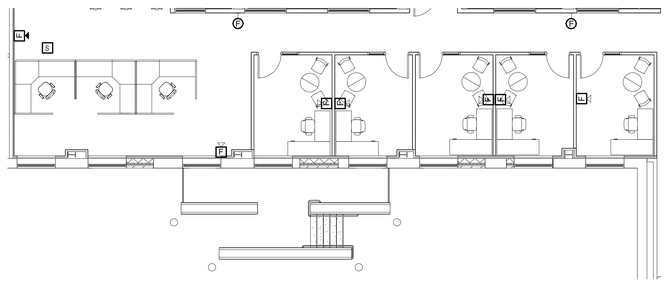
ORIGINAL SHEET - ARCH E1



1 FA-102 **1ST FLOOR - FIRE ALARM PLAN - ADD ALTERNATE #1**

1/8" = 1'-0"

NOTE: NO FIRE ALARM CHANGES APPLY TO ADD ALTERNATE #1.
ARCHITECTURAL ADD ALTERNATE INCLUDED FOR REFERENCE ONLY.



2 FA-102 **1ST FLOOR - FIRE ALARM PLAN - ADD ALTERNATE #2**

1/8" = 1'-0"

GENERAL NOTES - FIRE ALARM

1. REFER TO DRAWING FA-001 FOR SYMBOLS AND GENERAL PROJECT NOTES.
2. SMOKE DETECTORS SHALL BE INSTALLED NO CLOSER THAN 3'-0" FROM THE NEAREST HVAC DIFFUSER.
3. COORDINATE ALL INSTALLATIONS WITH EXISTING FIRE ALARM SYSTEM.

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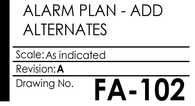
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FIRST FLOOR - FIRE ALARM PLAN - ADD ALTERNATES

Scale: As indicated
Revision: **A**
Drawing No. **FA-102**

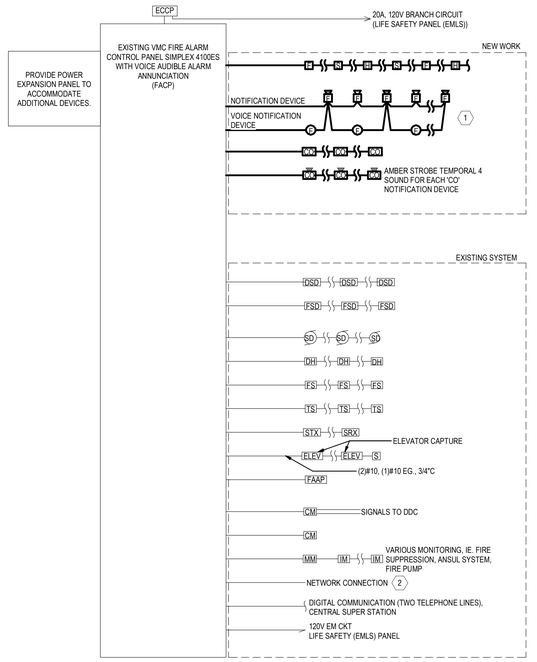
ORIGINAL SHEET - ARCH E1

FIRE ALARM SEQUENCE OF OPERATIONS MATRIX

	AUDIO / VISUAL ALARM INDICATION	AUDIO / VISUAL SUPERVISORY INDICATION	AUDIO / VISUAL TROUBLE INDICATION	SHUTDOWN AFFECTED AIR HANDLER	XMIT ALARM SIGNAL	XMIT ALARM SIGNAL - WATER FLOW	XMIT ALARM SIGNAL - SMOKE DETECTOR	XMIT ALARM SIGNAL - CLEAN AGENT SYSTEM ACTIVATION	XMIT SUPERVISORY SIGNAL - CLEAN AGENT SYSTEM	XMIT SUPERVISORY SIGNAL - DUCT DETECTOR	XMIT TROUBLE SIGNAL	FIRE ALARM STROBES THROUGHOUT	FIRE ALARM AUDIBLES THROUGHOUT	RECALL MRS	CLOSE FIRE SHUTTERS
	FACP DISPLAY				TRANSMIT TO MONITORING SERVICE										
ALARM SIGNALS															
MANUAL PULL STATION	•				•							•	•	•	•
WATERFLOW SWITCHES	•					•						•	•	•	•
SMOKE DETECTOR - AREA	•						•					•	•	•	•
CLEAN AGENT SYSTEM ACTIVATION	•							•				•	•	•	•
SUPERVISORY SIGNALS															
TAMPER SWITCHES		•								•					
LOW AIR PRESSURE		•								•					
SMOKE DETECTOR - DUCT*		•		•					•						
TROUBLE SIGNALS															
FIRE ALARM POWER FAILURE			•								•				
FIRE ALARM SYSTEM LOW/MISSING BATTERY			•								•				
SHORT CIRCUIT			•								•				
OPEN CIRCUIT			•								•				
GROUND FAULT			•								•				

* - PROGRAM AS SUPERVISORY UNLESS OTHERWISE REQUIRED BY LOCAL AHJ TO BE A GENERAL ALARM

3 FA-500 **FIRE ALARM SEQUENCE OF OPERATIONS MATRIX**
NOT TO SCALE



FIRE ALARM RISER DIAGRAM GENERAL NOTES:

A. WIRING INDICATED ON THE RISER IS DIAGRAMMATIC ONLY AND IS NOT INTENDED TO INDICATE ROUTING OR QUANTITIES OF WIRES REQUIRED. PROVIDE WIRING FOR A COMPLETE SYSTEM AS REQUIRED BY SYSTEM MANUFACTURER. NOT ALL DEVICES ARE INDICATED ON THE RISER DIAGRAM; REFER TO FLOOR PLANS FOR QUANTITIES AND LOCATIONS OF DEVICES.

B. STROBE UNITS ARE ADJUSTABLE TO 15, 30, 75 OR 110 CANDELA [cd]. ALL FIRE ALARM NOTIFICATION STROBES IN CORRIDORS, SINGLE GANG TOILET ROOMS, AND OFFICES UNDER 100 sq-ft SHALL BE 15cd.

C. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

D. PROVIDE SEPERATE, SEGREGATED CONDUIT SYSTEM FOR ALL FIRE ALARM WIRING.

FIRE ALARM RISER DIAGRAM KEYED NOTES: (#)

1. PROVIDE SYNCHRONIZATION OF STROBES IN HALLWAYS AND LARGER ROOMS/AREAS PER NFPA.
2. CONNECT TO EXISTING SIMPLEX 4100ES FIRE ALARM SYSTEM VIA INITIATION AND SIGNALING CIRCUITS OR A NETWORKED SUB-PANEL
3. PROVIDE ALL WORK AND MATERIAL TO CONNECT THE FIRE ALARM DEVICES IN THE AREA OF WORK TO THE VMC FACP

1 FA-500 **FIRE ALARM RISER DIAGRAM - EXISTING W/VOICE**
NOT TO SCALE

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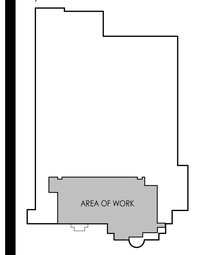
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STATE OF NEW YORK
WILLIAM T MONAHAN
PE 070172
LICENSED PROFESSIONAL ENGINEER
07/02/2026

Key Plan:



Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

FIRE ALARM RISERS

Scale: 12" = 1'-0"
Revision: **A**
Drawing No. **FA-500**

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ORIGINAL SHEET - ARCH E1

PLUMBING DEMOLITION NOTES

1. EACH BIDDER SHALL VISIT THE SITE AND BECOME INFORMED AS TO THE CONDITION OF THE PREMISES AND THE EXTENT AND CHARACTER OF WORK REQUIRED. NO ADDITIONAL COMPENSATION WILL BE APPROVED DUE TO FIELD CONDITIONS.
2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT.
3. VERIFY GOVERNING DIMENSIONS, PIPE SIZES AND LOCATION OF THE PIPING AND EQUIPMENT TO BE REMOVED.
4. NOTIFY BUILDING MANAGER AT LEAST 10 DAYS BEFORE DEMOLITION WORK OR BEFORE SHUT DOWN OF EXISTING SERVICES. RISER SHUT DOWNS SHALL BE PERFORMED DURING DESIGNATED TIMES UNDER BUILDING MANAGER'S SUPERVISION AND ONLY WITH HIS APPROVAL.
5. FIXTURES, EQUIPMENT, PIPING, ETC. TO BE REMOVED, SHALL BE DISPOSED OF, RELOCATED, TURNED OVER TO THE TENANT OR SALVAGED AS DIRECTED BY THE ARCHITECT.
6. UPON COMPLETION OF PROPOSED WORK NO ABANDONED PIPING SHALL REMAIN.
7. THE EXISTING SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF PROPOSED WORK.
8. LOCATIONS AND SIZES OF EXISTING PIPING ARE APPROXIMATE. EXACT SIZES AND LOCATIONS OF EXISTING PIPING SHALL BE VERIFIED AT THE SITE.
9. NO REMOVED EXISTING PIPING FITTINGS, VALVES, FIXTURES, ETC. SHALL BE REUSED UNLESS OTHERWISE APPROVED BY THE ENGINEER.
10. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS.
11. UNDER NO CIRCUMSTANCES WILL THIS CONTRACTOR OR HIS WORKMEN BE PERMITTED TO USE ANY PART OF THE BUILDING AS A SHOP, EXCEPT PARTS DESIGNATED BY THE OWNER FOR SUCH PURPOSES.
12. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL FROM THE PREMISES DEBRIS RESULTING FROM PLUMBING WORK. UNNECESSARY NOISE SHALL BE AVOIDED AND NECESSARY NOISE SHALL BE REDUCED TO A MINIMUM.
13. WHERE THE WORK MAKES TEMPORARY SHUTDOWNS OF SERVICES UNAVOIDABLE, THEY SHALL BE MADE AT NIGHT OR AT TIMES AS WILL CAUSE THE LEAST INTERFERENCE WITH THE ESTABLISHED OPERATING ROUTINE OF THE BUILDING.
14. THIS CONTRACTOR SHALL ARRANGE THE WORK CONTINUOUSLY, INCLUDING APPROVED BY ARCHITECT OVERTIME IF REQUIRED, TO ASSURE THAT SERVICES WILL BE SHUTDOWN AND CUT-INS ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO EXISTING WORK.
15. REQUIRED DEMOLITION WORK TO BE PERFORMED ABOVE EXISTING SUSPENDED CEILINGS AND FURRED OUT WALLS SHALL BE DONE AT THE TIME WHEN THE EXISTING CEILINGS AND FURRED OUT WALLS ARE REMOVED BY THE GENERAL CONTRACTOR.
16. EQUIPMENT AND INSTALLATIONS MUST BE EQUAL TO THE STANDARDS OF THE BASE BUILDING. DEVIATION FROM BUILDING STANDARDS WILL BE PERMITTED ONLY IF INDICATED OR SPECIFIED ON THESE PLANS AND SPECIFICATIONS, AND APPROVED.
17. TO INSURE CONTINUOUS OPERATIONS, MAKE NECESSARY TEMPORARY CONNECTIONS BETWEEN PROPOSED AND EXISTING WORK. COSTS RESULTING FROM TEMPORARY SHUTDOWNS SHALL BE BORNE BY THE CONTRACTOR.

GENERAL NOTES - INSTALLATION

1. DO NOT SCALE DRAWINGS FOR DIMENSIONS AND CLEARANCES. USE WRITTEN DIMENSIONS AND MEASURE SITE CONDITIONS. COORDINATE WITH THE ENGINEER AND DISCREPANCIES ENCOUNTERED OR NECESSARY MODIFICATIONS BEFORE PROCEEDING WITH CONSTRUCTION.
2. CONTRACTORS ARE TO COORDINATE THE WORK OF EACH OTHER, SO THAT THE WORK AND SCHEDULE ARE NOT IMPEDED. SCHEDULE WORK PROGRESS THROUGH THE ENTIRE PROJECT TO PREVENT CONFLICTS AND INTERFERENCES. OBTAIN NECESSARY INFORMATION SUCH AS SIZES, LOCATIONS, TEMPLATES, LAYOUT, DIMENSIONS AND OTHER INFORMATION NECESSARY FOR A COORDINATED INSTALLATION. PRIOR TO INSTALLATION OF ITEMS, VERIFY AND CONFIRM WITH EACH CONTRACTOR EXACT LOCATION OF ITEMS.
3. FORECAST SHUTDOWNS AT BEGINNING OF PROJECT. NOTE PROPOSED SHUTDOWN DATES AND LOCATION ON CONSTRUCTION SCHEDULE PROVIDED AT PROJECT COMMENCEMENT. ALL SHUTDOWNS TO BE SCHEDULED A MINIMUM OF SEVEN (7) CALENDAR DAYS IN ADVANCE AND REQUESTS SHALL BE SUBMITTED VIA EPM SYSTEM TO THE OWNER'S REPRESENTATIVE.
4. CONTRACTOR TO VERIFY AND CONFIRM EXISTING CONDITIONS IN THE FIELD. DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER OF RECORD IN A TIMELY FASHION.
5. FIELD COORDINATE THE LOCATIONS OF PIPING WITH THE WORK OF OTHER TRADES AND THE BUILDING STRUCTURE.
6. COORDINATE FLOOR PENETRATIONS WITH STRUCTURAL.
7. PROVIDE BALL VALVE ISOLATION VALVES AT TAKE-OFFS AND AT DROPS TO EQUIPMENT AND/OR CASEWORK. MATCH VALVE MATERIAL TO PIPING MATERIAL.
8. DOMESTIC COLD WATER (DCW) AND DOMESTIC HOT WATER (DHW) SUPPLY TO SINKS SHALL BE 1/2" UNLESS NOTED OTHERWISE. PROVIDE FLEXIBLE FINAL CONNECTION TO FAUCET.
9. EXISTING PIPING LOCATIONS SHALL BE VERIFIED BEFORE INSTALLATION OF PROPOSED WORK.
10. SANITARY PIPING 2-1/2" AND SMALLER SHALL PITCH 1/4"/FT. SANITARY PIPING LARGER THAN 2-1/2" SHALL PITCH 1/8"/FT. VENT PIPING SHALL PITCH 1/8"/FT.

ENERGY CONSERVATION CODE NOTES

1. PLUMBING SYSTEMS AND EQUIPMENT SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FULL REQUIREMENTS OF THE 2025 NEW YORK STATE BUILDING CODE (NYSBC), 2025 NEW YORK STATE PLUMBING CODE (NYSPC), 2025 NEW YORK STATE FUEL GAS CODE (NYSFGC), AND 2025 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (NYSECC). SYSTEMS AND EQUIPMENT SHALL ALSO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH RELEVENT CORNELL DESIGN STANDARDS, AND REQUIREMENTS OF THE STATE UNIVERSITY CONSTRUCTION FUND.
2. DOMESTIC HOT WATER PIPING SHALL BE INSULATED WITH NOT LESS THAN THE THICKNESS AND CONDUCTIVITY SHOWN IN NYSECC TABLE C403.2.10 AS REQUIRED BY NYSECC SECTION C404.4.
3. HEATED-WATER SUPPLY PIPING SHALL BE INSTALLED EFFICIENTLY IN ACCORDANCE WITH NYSECC SECTION 404.5.
4. HEATED-WATER CIRCULATING AND TEMPERATURE MAINTENANCE SYSTEMS AND CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH NYSECC SECTION 404.6.

PLUMBING NOTES

1. CONTRACTOR SHALL VERIFY DIMENSIONS AND JOB CONDITIONS AND SHALL REPORT TO ENGINEER ANY DISCREPANCIES OR OMISSIONS THAT WOULD INTERFERE WITH SATISFACTORY COMPLETION OF THE WORK.
2. CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE THEMSELF WITH EXISTING CONDITIONS PRIOR TO THE BEGINNING OF CONSTRUCTION.
3. WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS PROFESSIONAL MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND FUNCTIONAL.
4. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING WITH GENERAL CONTRACTOR FOR HANDLING MATERIALS, AS WELL AS FOR ALLOWABLE WORKING HOURS AND DELIVERIES.
5. PLUMBING CONTRACTOR SHALL COORDINATE WORK WITH RESPECT TO OTHER TRADES, INCLUDING STRUCTURE AND CEILING HEIGHTS. CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECTURAL LAYOUTS, INCLUDING CEILING HEIGHTS.
6. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND MANUFACTURERS' CUTS AND SAMPLES TO ENGINEER AND ARCHITECT PRIOR TO COMMENCEMENT OF SUCH WORK.
7. DRAWINGS ARE NOT TO BE SCALED.
8. CONTRACTOR SHALL COMPLY WITH BUILDING DEPARTMENT AND REGULATORY AGENCIES AND CODE REQUIREMENTS. BE RESPONSIBLE FOR SECURING NECESSARY PERMITS AND APPROVALS OF TRADES.
9. CONTRACTOR SHALL CARRY AND DOCUMENT LIABILITY, ACCIDENT AND PROPERTY DAMAGE INSURANCE AS REQUIRED BY OWNER AND GENERAL CONTRACTOR AND OBSERVE THEIR PERMITTED HOURS FOR WORK.
10. CONTRACTOR SHALL EXERCISE EXTREME CARE IN PROTECTING AREAS ADJACENT TO CONSTRUCTION AREAS, SHALL FULLY PROTECT THEM FROM ANY DAMAGE RESULTING FROM CONTRACTOR'S WORKMEN, SUBCONTRACTORS OR AGENTS, AND SHALL BE RESPONSIBLE FOR REPAIRING, CLEANING OR REPLACING ANY SUCH DAMAGE.
11. DIMENSIONS GIVEN ARE FINISH DIMENSIONS UNLESS OTHERWISE STATED.
12. UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FURNISH LABOR, MATERIALS, APPURTENANCES, EQUIPMENT AND SERVICES TO COMPLETE WORK AS INDICATED ON DRAWINGS AND/OR SPECIFIED ON NOTES.
13. UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FOLLOW MANUFACTURERS' DIRECTIONS WITH APPLICABLE CODES, INSTRUCTIONS AND RECOMMENDATIONS FOR MATERIALS AND PROCESSES USED IN THIS CONTRACT. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
14. UPON COMPLETION OF THE WORK, COMPLETELY CLEAN THE CONSTRUCTION AREA SUITABLE FOR THE OWNER'S USE, INCLUDING REMOVAL OF LABELS (AFTER ARCHITECTS AND ENGINEER'S INSPECTION), CLEANING OF THE EQUIPMENT, CONSTRUCTION WORK, WINDOWS AND OTHER WORK, PROPOSED AND EXISTING, IN THAT CONSTRUCTION AREA. MAINTENANCE MANUALS SHALL BE PROVIDED TO THE OWNER.
15. VACUUM BREAKER AND RELATED PIPING SHALL BE INSTALLED BEHIND WALLS. PROVIDE AN ACCESS PANEL TO THE VACUUM BREAKER. ALL EXPOSED PIPING IN FINISHED SPACES SHALL BE STEEL WITH CHROME PLATED FINISH.
16. PROVIDE CLEANOUTS FOR CHANGES IN DIRECTION FOR SANITARY, LABORATORY WASTE, CONTAMINATED WASTE, AND STORM PIPING.
17. EXPOSED PIPING PENETRATIONS THROUGH WALLS OR CEILINGS SHALL BE PROVIDED WITH APPROPRIATE SEALANT AND ESCUTCHEONS.
18. FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
19. 3D REVIT FILES WILL NOT BE PROVIDED.
20. CONTRACTOR SHALL REFER TO ARCHITECT'S LIFE SAFETY PLAN FOR LOCATIONS OF ANY FIRE RATED WALLS. PROVIDE FIRE-STOPPING WHERE PIPING PENETRATES FIRE RATED WALLS.

PLUMBING CODE NOTES

1. THE PLUMBING SYSTEMS (SANITARY, WASTE, VENT, STORM, DOMESTIC WATER DISTRIBUTION, ETC.) AND ASSOCIATED EQUIPMENT SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FULL REQUIREMENTS OF THE 2025 NEW YORK STATE BUILDING CODE (NYSBC),AND 2025 NEW YORK STATE PLUMBING CODE (NYSPC).
2. PLUMBING WORK SHALL COMPLY WITH CHAPTER 4 OF THE 2025 NEW YORK STATE BUILDING CODE AND CHAPTERS 1 THROUGH 13 AND APPENDICES A THROUGH G OF THE 2025 NEW YORK STATE PLUMBING CODE.
3. PLUMBING WORK SHALL COMPLY WITH THE GENERAL REGULATIONS SET FORTH IN CHAPTER 3 OF THE 2025 NEW YORK STATE PLUMBING CODE.
4. PLUMBING SYSTEMS SHALL BE INSTALLED TO PREVENT RODENTS FROM ENTERING STRUCTURES AS PER NYSPC SECTION 304.
5. PLUMBING PIPING AND PLUMBING SYSTEM COMPONENTS SHALL BE PROTECTED AS OUTLINED IN NYSPC SECTION 305.
6. VERTICAL AND HORIZONTAL PLUMBING PIPING SHALL BE SUPPORTED AS DIRECTION IN THE PROJECT SPECIFICATIONS AND IN COMPLIANCE WITH THE REQUIREMENTS OF NYSPC SECTION 308.
7. THE INSTALLATION OF PLUMBING FIXTURES, FAUCETS AND FIXTURE FITTINGS SHALL BE IN ACCORDANCE WITH NYSPC SECTIONS 401 THROUGH 427.
8. CONNECTIONS BETWEEN DRAINAGE PIPING AND PLUMBING FIXTURES SHALL CONFORM TO NYSPC SECTION 405.
9. THE WATER SUPPLY AND DISTRIBUTION SYSTEM SHALL BE INSTALLED AND MAINTAINED IN FULL COMPLIANCE WITH NYSPC SECTIONS 601 THROUGH 613.
10. VALVES SHALL BE PROVIDED AS PER NYSPC SECTION 606.
11. BACKFLOW PROTECTION OF THE POTABLE WATER SUPPLY SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NYSPC SECTIONS 608.13 THROUGH 608.16, AND SECTION 301.4.
12. PROPOSED POTABLE WATER SYSTEMS SHALL BE PURGED AND DISINFECTED PRIOR TO UTILIZATION IN ACCORDANCE WITH NYSPC SECTION 610 AS AMMENDED BY NYS.
13. THE SANITARY DRAINAGE SYSTEM SHALL BE SIZED AND INSTALLED IN FULL COMPLIANCE WITH SECTIONS NYSPC701 THROUGH NYSPC717.
14. THE MATERIALS USED IN THE PLUMBING SYSTEM SHALL BE PROVIDED IN FULL ACCORDANCE WITH NYSPC SECTION 605 AND NYSPC SECTION 702.
15. JOINTS IN SANITARY/WASTE, VENT, & STORM WATER DRAINAGE PIPING SYSTEMS SHALL CONFORM TO NYSPC SECTION 705.
16. CONNECTIONS AND CHANGES IN DIRECTION BETWEEN DRAINAGE PIPING AND FITTINGS SHALL CONFORM TO NYSPC SECTION 706.
17. CLEANOUTS SHALL BE INSTALLED IN SANITARY/WASTE AND STORM DRAINAGE PIPING AS PER SECTION NYSPC708 AND NYSPC1101.8.
18. INDIRECT, SPECIAL AND MISCELLANEOUS PIPING SHALL BE INSTALLED AS DIRECTED AND IN FULL COMPLIANCE WITH NYSPC SECTIONS 801 THROUGH 804.
19. THE SANITARY VENTING SYSTEM SHALL BE SIZED AND INSTALLED IN FULL COMPLIANCE WITH NYSPC SECTIONS 901 THROUGH NYSPC920.
20. VENTS FOR SANITARY/WASTE STACK OFFSETS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION NYSPC907.
21. CIRCUIT VENTING SHALL BE PROVIDED IN ACCORDANCE WITH NYSPC SECTION 914.
22. TRAPS FOR FIXTURES SHALL BE INSTALLED IN FULL COMPLIANCE WITH NYSPC SECTION 1002.

ECC STATEMENT

2025 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE

* TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THE PLANS AND SPECIFICATIONS BEARING MY RESPECTIVE PROFESSIONAL SEAL AND SIGNATURE ARE IN COMPLIANCE WITH THE ENERGY CODE.*

COMPLIANCE NOTES

1. INSTALLATION SHALL COMPLY WITH CORNELL AND SUCF DESIGN AND CONSTRUCTION STANDARDS.

PLUMBING ABBREVIATIONS

AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BOP	BOTTOM OF PIPE
BWS	BUILDING WATER SERVICE
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CF	CUBIC FEET
CM	COFFEE MAKER
CO	CLEAN OUT
CO_2	CARBON DIOXIDE
CWMP	CLEAN OUT WALL PLATE
CP	CONTROL PANEL
CW	CONTAMINATED WASTE
CWM	CLOTHES WASHING MACHINE
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DCV	DOUBLE CHECK VALVE
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DI	DEIONIZED WATER
DN	DOWN
EL	ELEVATION
ET, DET	DOMESTIC WATER EXPANSION TANK
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
F	FIRE SERVICE
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FEP	FLUORINATED ETHYLENE PROPYLENE
FS	FLOOR SINK
FSP	FIRE STANDPIPE
FW	FILTERED WATER
HB	HOSE BIBB
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HPG	HIGH PRESSURE NATURAL GAS
HR	HOUR
HS	HAND SINK
HW	DOMESTIC HOT WATER
HWH	HOT WATER HEATER
HWR	DOMESTIC HOT WATER RETURN
HWT	HOT WATER STORAGE TANK
HVAC	HEATING, VENTILATION & AIR CONDITIONING
IBBM	IRON BODY, BRONZE MOUNTED
IM	ICE MAKER
IW	INDIRECT WASTE
LA	LABORATORY COMPRESSED AIR
LAI	LABORATORY AIR COMPRESSOR INTAKE
LAV	LAVATORY
LPG	PROPANE GAS
LW	LABORATORY WASTE
LWV	LABORATORY WASTE VENT
MICV	METER INLET CONTROL VALVE
MOCV	METER OUTLET CONTROL VALVE
MS, MSB	MOP SINK BASIN
N2	NITROGEN
NC	NORMALLY CLOSED
NFWH	NON-FREEZE WALL HYDRANT
NG	NATURAL GAS
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O2	OXYGEN
OS&Y	OUTSIDE SCREW & YOKE
PG	PRESSURE GAUGE
PLMB	PLUMBING
PP	POLYPROPYLENE
PS	PANTRY SINK
PW	PURE WATER
PWR	PURE WATER RETURN
REF	REFRIGERATOR
RO	REVERSE OSMOSIS
ROR	REVERSE OSMOSIS RETURN
RPZ, RPZA	REDUCED PRESSURE ZONE ASSEMBLY
RPZDA	REDUCED PRESSURE ZONE DETECTOR ASSEMBLY
SAN	SANITARY
SF	SQUARE FEET
SK	SINK
SS	SERVICE SINK
SST	STAINLESS STEEL
ST	STORM
STO	STORM OVERFLOW
ST(P)	STORM - PERFORATED
SW	SOFTENED WATER
TBR	TO BE REMOVED
TW	TEPID WATER
TWR	TEPID WATER RETURN
TYP	TYPICAL
UR	URINAL
V	VENT
VAC	VACUUM
VAC-V	VACUUM VENT
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WHA	WATER HAMMER ARRESTOR
WM	WATER METER

PLUMBING SYMBOLS

SAN	SANITARY OR WASTE PIPING (SAN)
	VENT PIPING (SV)
	COLD WATER PIPING (DCW)
	HOT WATER PIPING (DHW)
	HOT WATER RETURN PIPING (DHWR)
ST	STORM DRAINAGE PIPING (ST)
OD	STORM OVERFLOW DRAINAGE PIPING (OD)
NG	NATURAL GAS PIPING (NG)
XXX / P500	DETAIL REFERENCE IN 500 SERIES DRAWINGS
	PIPE UP
	PIPE DROP/DOWN
	BOTTOM CONNECTION DROP
	CIRCULATOR PUMP
	BREAK
	BREAK
	HOT WATER BALANCING VALVE RIG
	AREA, FLOOR, OR ROOF DRAIN
	GAS VALVE
	BALL VALVE
	CHECK VALVE
	OS&Y VALVE WITH TAMPER SWITCH
	OS&Y VALVE
	GATE VALVE
	VACUUM BREAKER
TP	TRAP PRIMER
F	WATER FILTER
S	SOLENOID VALVE
	HOSE BIBB
	PRESSURE REDUCING VALVE (PRV)
	WATER HAMMER ARRESTOR
EFV	EXCESS FLOW VALVE
	QUICK CONNECTION
	PRESSURE GAUGE
	UNION

DRAWING NOTATIONS

#	PROPOSED WORK KEYED NOTE TAG
#	DEMOLITION KEYED NOTE TAG
	POINT OF CONNECTION
	POINT OF DISCONNECTION
1	REVISION SYMBOL
	PROPOSED WORK
	DEMOLITION
	EXISTING
	NOT IN SCOPE

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Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

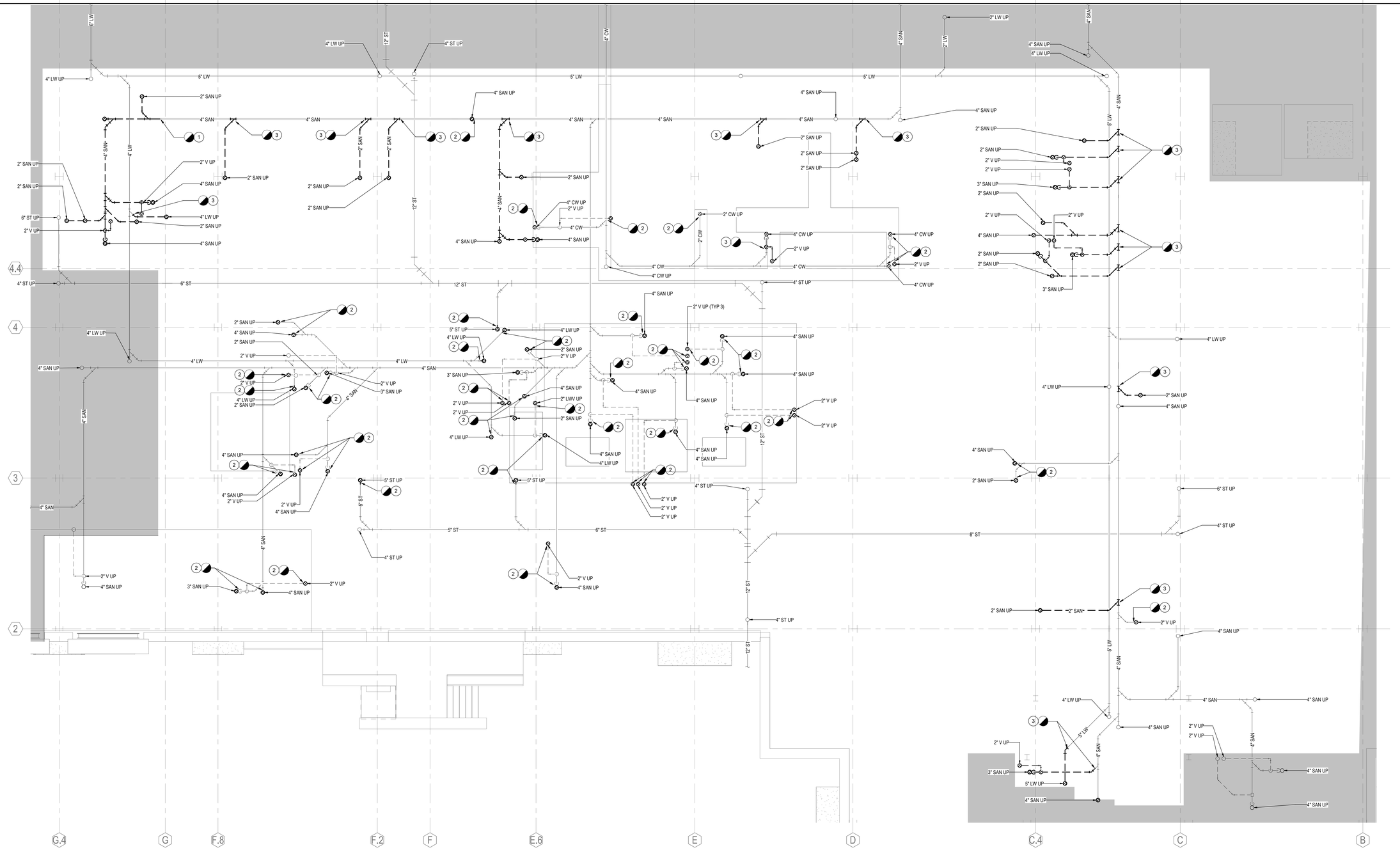
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PLUMBING LEAD SHEET

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Revision: **0**
Drawing No. **P000**

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ORIGINAL SHEET - ARCH E1



1 PLUMBING UNDERSLAB DEMOLITION AND REMOVAL PLAN

PD100 3/16" = 1'-0"

① KEY NOTES

1. REMOVE DRAINAGE PIPING BACK TO LIMIT OF REMOVAL. COORDINATE FLOOR SLAB REMOVAL WITH GENERAL CONTRACTOR. CAP PIPING WHERE SHOWN AND PREPARE FOR RECONNECTION IN NEW CONSTRUCTION PHASE.
2. REMOVE DRAINAGE PIPING PENETRATING FLOOR SLAB. CAP PIPING BELOW FLOOR LEVEL AND ABANDON IN PLACE. REPAIR IMPACTED FLOOR SLAB AND COVER ABANDONED PIPING BY REFINISHING THE FLOOR ACCORDING TO ARCHITECTURAL PLANS.
3. REMOVE DRAINAGE PIPING BACK TO LIMIT OF REMOVAL. COORDINATE FLOOR SLAB REMOVAL WITH GENERAL CONTRACTOR.

GENERAL NOTES

A. UTILITY SHUTDOWNS REQUIRED TO CONDUCT CONSTRUCTION WORK WHICH IMPACTS LOCATIONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS. COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 10 DAYS IN ADVANCE.

B. PATCH, PAINT, AND REPAIR OPENINGS REMAINING AFTER DEMOLITION OF MATERIALS.

C. WHERE SHOWN, DEMO RISERS THAT PASS THROUGH THE FIRST FLOOR SLAB AND CAP AT FLOOR LEVEL TO ABANDON IN PLACE. SEE SHEET PD101 TO SEE FURTHER EXTENT OF DEMOLITION ABOVE CEILING. TYPICAL.

D. COORDINATE FLOOR SLAB REMOVAL AND REPLACEMENT WITH GENERAL CONTRACTOR.

E. THE EXISTING PIPING LAYOUT SHOWN IS BASED ON ORIGINAL 1991 DESIGN DRAWINGS. EXISTING SHOP DRAWINGS DO NOT EXIST FOR THIS AREA OF THE BUILDING. BECAUSE OF THE EXISTING USE OF THE SPACE, EXACT PIPE ROUTING AND ELEVATION COULD NOT BE VERIFIED. CONTRACTORS TO FIELD DOCUMENT THE ACTUAL SYSTEM LAYOUT DURING THE DEMOLITION PHASE, AND REPORT SERIOUS DISCREPANCIES TO THE ENGINEER.

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STATE OF NEW YORK · TIMOTHY DANIEL CASEY · 102196 · LICENSED PROFESSIONAL ENGINEER

Key Plan:

Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

PLUMBING UNDERSLAB DEMOLITION PLAN

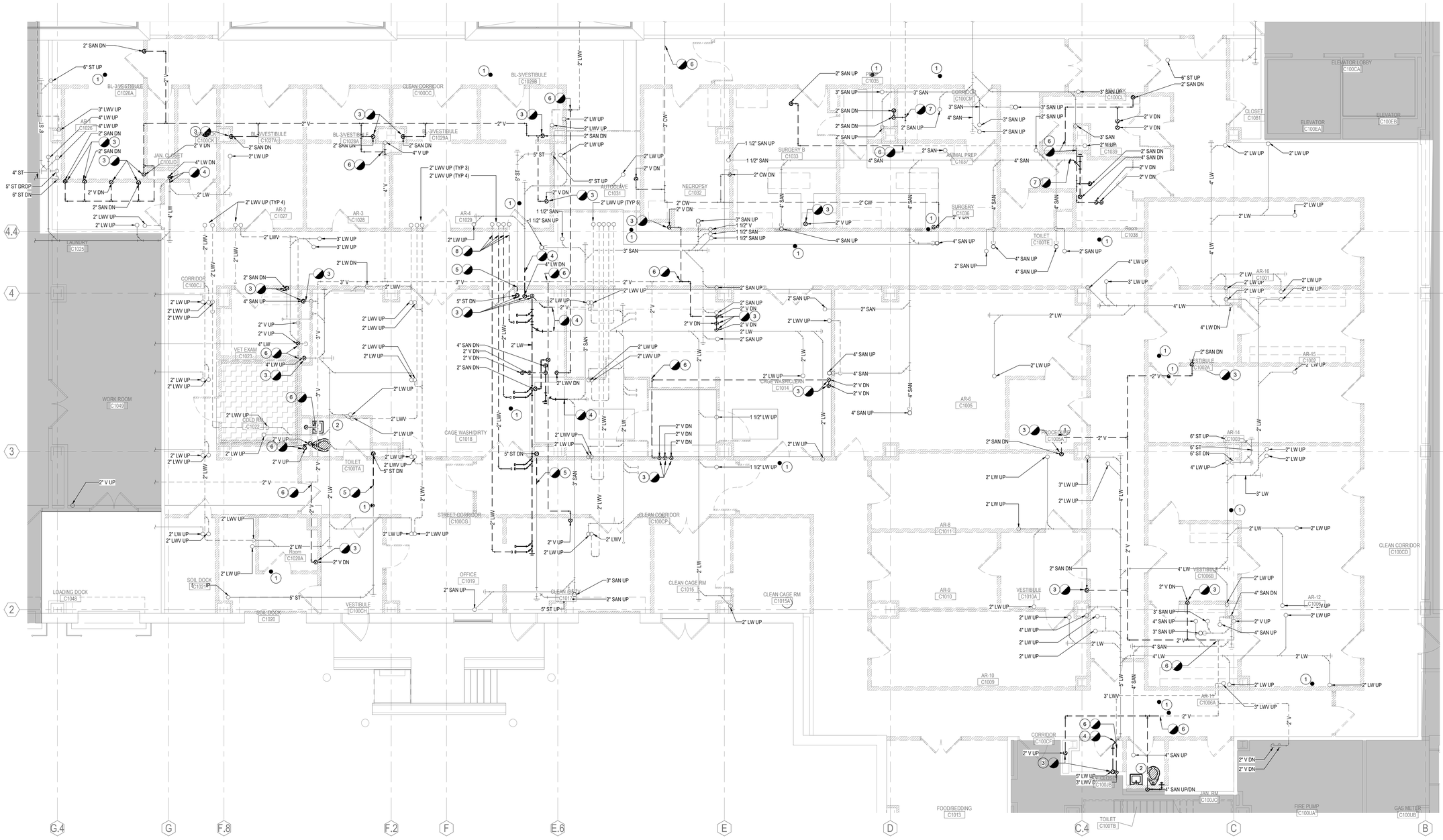
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Revision: 0

Drawing No. **PD100**

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ORIGINAL SHEET - ARCH E1



1 PLUMBING FIRST FLOOR SANITARY DEMOLITION AND REMOVAL PLAN

PD101 — 3/16" = 1'-0"

① KEY NOTES

1. REMOVE FLOOR DRAINS. CAP SANITARY PIPING AT FLOOR TO ABANDON IN PLACE.
2. REMOVE PLUMBING FIXTURES AND SANITARY PIPING BACK TO THE RISER IN THE CHASE. EXECUTE NECESSARY REPAIRS TO ALLOW RISER TO REMAIN FUNCTIONAL.
3. REMOVE DRAINAGE PIPING PENETRATING FLOOR SLAB BACK TO LIMIT OF REMOVAL. CAP PIPING AT FIRST FLOOR LEVEL AND ABANDON IN PLACE.
4. REMOVE WASTE PIPING BACK TO LIMIT OF REMOVAL AND PREPARE FOR RECONNECTION IN NEXT PHASE.
5. REMOVE STORM DRAINAGE PIPING BACK TO LIMIT OF REMOVAL AND PREPARE FOR RECONNECTION IN NEXT PHASE.
6. REMOVE VENT PIPING BACK TO LIMIT OF REMOVAL.
7. REMOVE SANITARY PIPING BACK TO LIMIT OF REMOVAL.
8. REMOVE LAB WASTE VENT PIPING ABOVE CEILING BACK TO LIMIT OF REMOVAL AND CAP.

GENERAL NOTES

A. UTILITY SHUTDOWNS REQUIRED TO CONDUCT CONSTRUCTION WORK WHICH IMPACTS LOCATIONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS. COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 10 DAYS IN ADVANCE.

B. PATCH, PAINT, AND REPAIR OPENINGS REMAINING AFTER DEMOLITION OF MATERIALS.

C. WHERE SHOWN, DEMO RISERS THAT PASS THROUGH THE FIRST FLOOR SLAB AND CAP AT FLOOR LEVEL TO ABANDON IN PLACE. SEE SHEET PD101 TO SEE FURTHER EXTENT OF DEMOLITION ABOVE CEILING. TYPICAL.

D. COORDINATE FLOOR SLAB REMOVAL AND REPLACEMENT WITH GENERAL CONTRACTOR.

E. THE EXISTING PIPING LAYOUT SHOWN IS BASED ON ORIGINAL 1991 DESIGN DRAWINGS. EXISTING SHOP DRAWINGS DO NOT EXIST FOR THIS AREA OF THE BUILDING. BECAUSE OF THE EXISTING USE OF THE SPACE, EXACT PIPE ROUTING AND ELEVATION COULD NOT BE VERIFIED. CONTRACTORS TO FIELD DOCUMENT THE ACTUAL SYSTEM LAYOUT DURING THE DEMOLITION PHASE, AND REPORT SERIOUS DISCREPANCIES TO THE ENGINEER.

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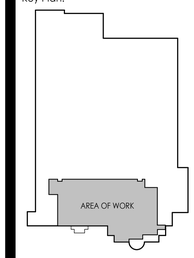
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Permit/Seal



Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

PLUMBING FIRST FLOOR SANITARY DEMOLITION PLAN

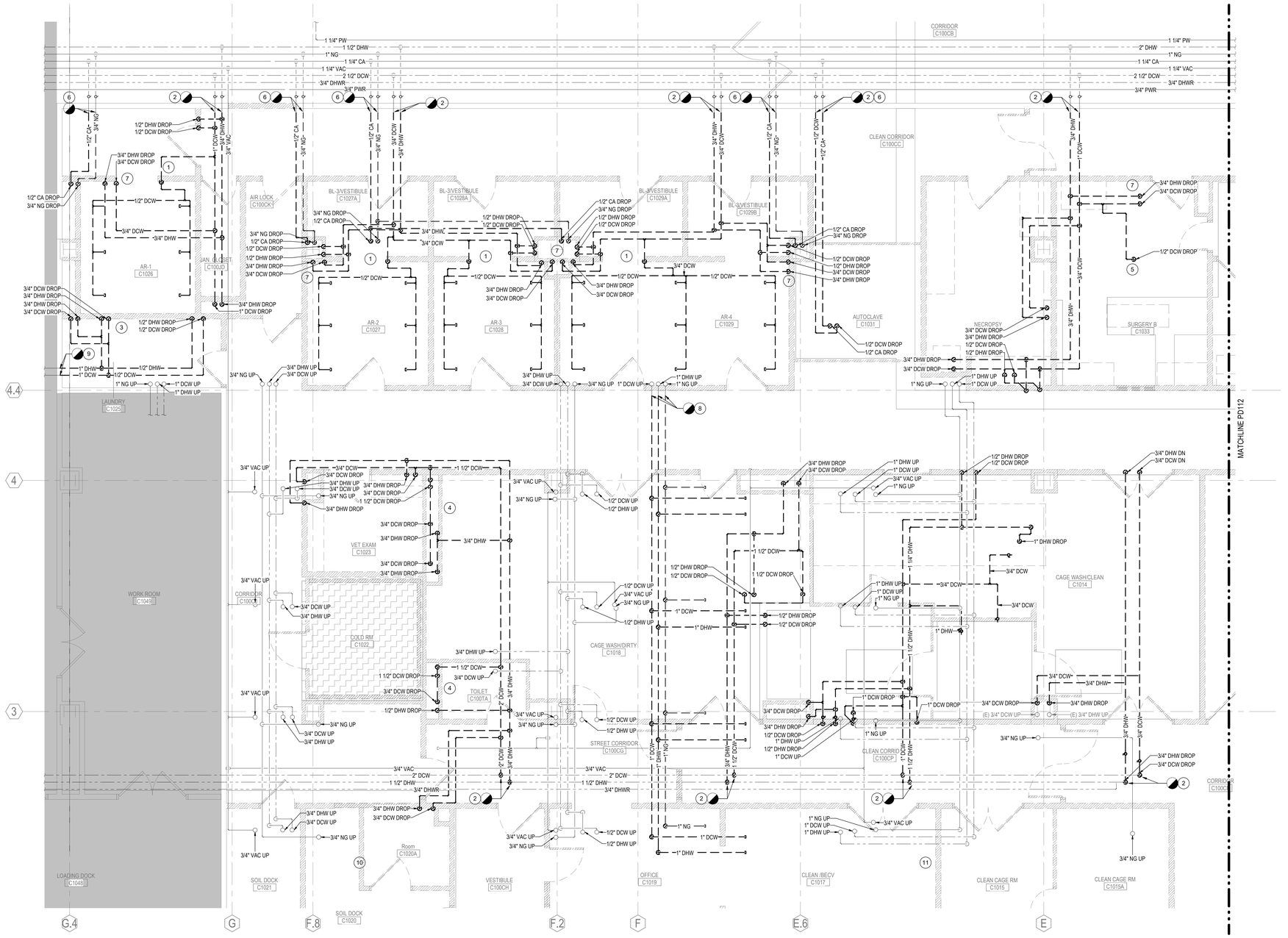
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Revision:**0**

Drawing No. **PD101**

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ORIGINAL SHEET - ARCH E1



1 PLUMBING FIRST FLOOR SUPPLY SYSTEMS DEMOLITION AND REMOVALS PLAN WEST

PD111 1/4" = 1'-0"

① KEY NOTES

1. REMOVE AUTO WATERING SYSTEM INCLUDING DCW PIPING, FITTINGS, VALVES, APPURTENANCES, BACKFLOW PREVENTERS, SHOCK ABSORBERS, CONTROL REGULATORS, AND FILTERS BACK TO LIMIT OF REMOVAL ABOVE CEILING.
2. REMOVE DOMESTIC WATER LINES, FITTINGS, VALVES, AND APPURTENANCES BACK TO LIMIT OF REMOVAL AND CAP.
3. REMOVE 3/4" DCW AND DHW PIPING DROPS TO WASHERS, FITTINGS, VALVES, APPURTENANCES AND MIXING VALVES BACK TO LIMIT OF REMOVAL ABOVE CEILING.
4. REMOVE DCW AND DHW PIPING DROPS IN THE CHASE, FITTINGS, VALVES, APPURTENANCES AND MIXING VALVES BACK TO LIMIT OF REMOVAL ABOVE CEILING.
5. REMOVE DCW AND PIPING DROPS, FITTINGS, VALVES, APPURTENANCES AND MIXING VALVES BACK TO LIMIT OF REMOVAL ABOVE CEILING. CAP AT FLOOR TO ABANDON IN PLACE.
6. REMOVE NATURAL GAS AND COMPRESSED AIR LINES BACK TO LIMIT OF REMOVAL AND CAP.
7. REMOVE MIXING VALVES AND 3/4" DCW AND DHW PIPING DROPS TO MIXING VALVES BACK TO LIMIT OF REMOVAL ABOVE CEILING.
8. REMOVE DCW, DHW, AND NG PIPING ABOVE CEILING BACK TO SUBFLOOR ABOVE AND CAP.
9. REMOVE DCW AND DHW PIPING BACK TO LIMIT OF REMOVAL AND CAP.
10. VERIFY SCOPE OF SERVICE OF WATERING SYSTEM AND REMOVE AND PROPERLY DISPOSE OF THE PORTION THAT SERVES AREA WITHIN SCOPE OF PROJECT, INCLUDING PIPING, FITTINGS, VALVES, APPURTENANCES, MANIFOLDS, PUMPS, AND TANKS. COORDINATE SCOPE AND SHUTDOWNS WITH OWNER'S REPRESENTATIVES.
11. VERIFY SCOPE OF SERVICE OF OXYGEN AND CO2 DISTRIBUTION SYSTEM AND REMOVE THE PORTION THAT SERVES AREA WITHIN SCOPE OF PROJECT, INCLUDING PIPING, FITTINGS, VALVES, APPURTENANCES, AND MANIFOLDS. COORDINATE SCOPE AND SHUTDOWNS WITH OWNER'S REPRESENTATIVES.

GENERAL NOTES

A. UTILITY SHUTDOWNS REQUIRED TO CONDUCT CONSTRUCTION WORK WHICH IMPACTS LOCATIONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS. COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 10 DAYS IN ADVANCE.

B. INSULATE PIPING, FITTINGS, VALVES AND SPECIALTIES.

C. PAINT EXPOSED EXISTING AND PROPOSED PIPING TO MATCH STRUCTURE COLOR FOLLOWING THE COMPLETION OF INSULATION ACTIVITIES. SEE DIVISION 9 PAINTING SPECIFICATION AND ARCHITECT'S PLANS.

D. THE EXISTING PIPING LAYOUT SHOWN IS BASED ON ORIGINAL 1991 DESIGN DRAWINGS. EXISTING SHOP DRAWINGS DO NOT EXIST FOR THIS AREA OF THE BUILDING. BECAUSE OF THE EXISTING USE OF THE SPACE, EXACT PIPE ROUTING AND ELEVATION COULD NOT BE VERIFIED. CONTRACTORS TO FIELD DOCUMENT THE ACTUAL SYSTEM LAYOUT DURING THE DEMOLITION PHASE, AND REPORT SERIOUS DISCREPANCIES TO THE ENGINEER.

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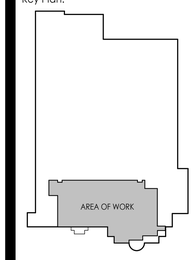
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Key Plan:



Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

PLUMBING FIRST FLOOR SUPPLY WEST DEMOLITION

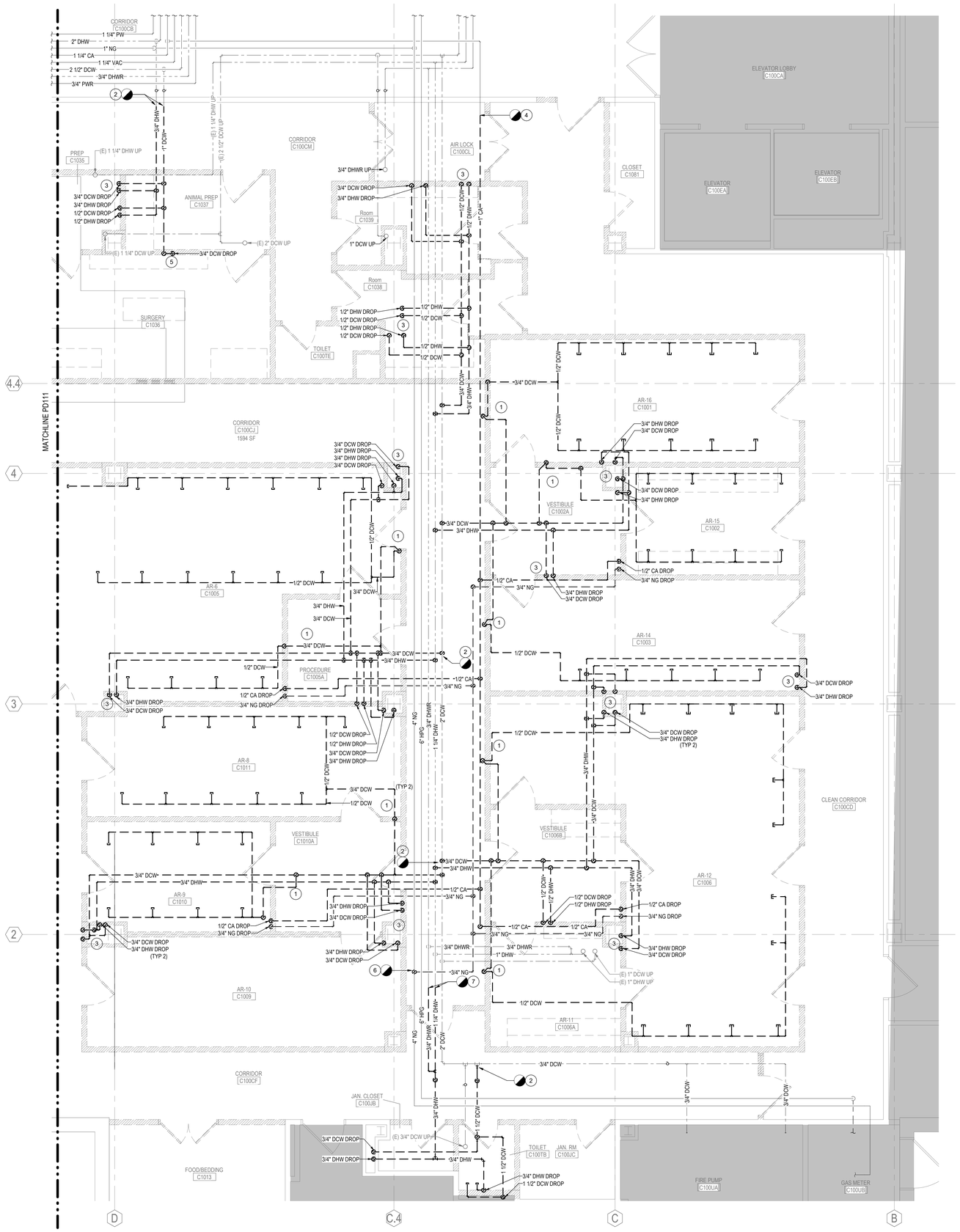
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Revision: **0**

Drawing No. **PD111**

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ORIGINAL SHEET - ARCH E1



1 PD112 **PLUMBING FIRST FLOOR SUPPLY SYSTEMS DEMOLITION AND REMOVALS PLAN EAST**

1/4" = 1'-0"

KEY NOTES

1. REMOVE AUTO WATERING SYSTEM INCLUDING DCW PIPING, FITTINGS, VALVES, APPURTENANCES, MANIFOLDS, BACKFLOW PREVENTERS, SHOCK ABSORBERS, CONTROL REGULATORS, AND FILTERS BACK TO LIMIT OF REMOVAL ABOVE CEILING.
2. REMOVE DOMESTIC WATER LINES, FITTINGS, VALVES, AND APPURTENANCES BACK TO LIMIT OF REMOVAL AND CAP.
3. REMOVE MIXING VALVES AND 3/4" DCW AND DHW PIPING DROPS TO MIXING VALVES BACK TO LIMIT OF REMOVAL ABOVE CEILING.
4. REMOVE CA MAIN PIPING BACK TO LIMIT OF REMOVAL ABOVE CEILING. CAP PIPE.
5. REMOVE DCW AND PIPING DROPS, FITTINGS, VALVES, APPURTENANCES AND MIXING VALVES BACK TO LIMIT OF REMOVAL ABOVE CEILING. CAP AT FLOOR TO ABANDON IN PLACE.
6. REMOVE NATURAL GAS AND COMPRESSED AIR LINES BACK TO LIMIT OF REMOVAL ON THE MAIN ABOVE CEILING. EXECUTE NECESSARY REPAIRS TO ALLOW MAINS TO REMAIN FUNCTIONAL.
7. REMOVE DOMESTIC WATER LINES, FITTINGS, AND APPURTENANCES BACK TO LIMIT OF REMOVAL AND SEAL OPEN ENDS IN PREPARATION FOR RECONNECTION IN CONSTRUCTION PHASE. COORDINATE SHUT DOWNS WITH OWNER'S REPRESENTATIVES.

GENERAL NOTES

A. UTILITY SHUTDOWNS REQUIRED TO CONDUCT CONSTRUCTION WORK WHICH IMPACTS LOCATIONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS. COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 10 DAYS IN ADVANCE.

B. PATCH, PAINT, AND REPAIR OPENINGS REMAINING AFTER DEMOLITION OF MATERIALS.

C. WHERE PIPING SHOWN TO BE REMOVED BACK TO CORRIDOR, MAINS IN CORRIDORS TO REMAIN FUNCTIONAL.

D. WHERE SHOWN, DEMO RISERS THAT PASS THROUGH THE FIRST FLOOR SLAB AND CAP AT FLOOR LEVEL TO ABANDON IN PLACE. SEE SHEET PD101 TO SEE FURTHER EXTENT OF DEMOLITION ABOVE CEILING. TYPICAL.

E. COORDINATE FLOOR SLAB REMOVAL AND REPLACEMENT WITH GENERAL CONTRACTOR.

F. THE EXISTING PIPING LAYOUT SHOWN IS BASED ON ORIGINAL 1991 DESIGN DRAWINGS. EXISTING SHOP DRAWINGS DO NOT EXIST FOR THIS AREA OF THE BUILDING. BECAUSE OF THE EXISTING USE OF THE SPACE, EXACT PIPE ROUTING AND ELEVATION COULD NOT BE VERIFIED. CONTRACTORS TO FIELD DOCUMENT THE ACTUAL SYSTEM LAYOUT DURING THE DEMOLITION PHASE, AND REPORT SERIOUS DISCREPANCIES TO THE ENGINEER.

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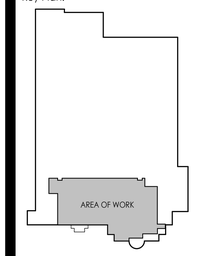
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Key Plan:



Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

PLUMBING FIRST FLOOR SUPPLY EAST DEMOLITION

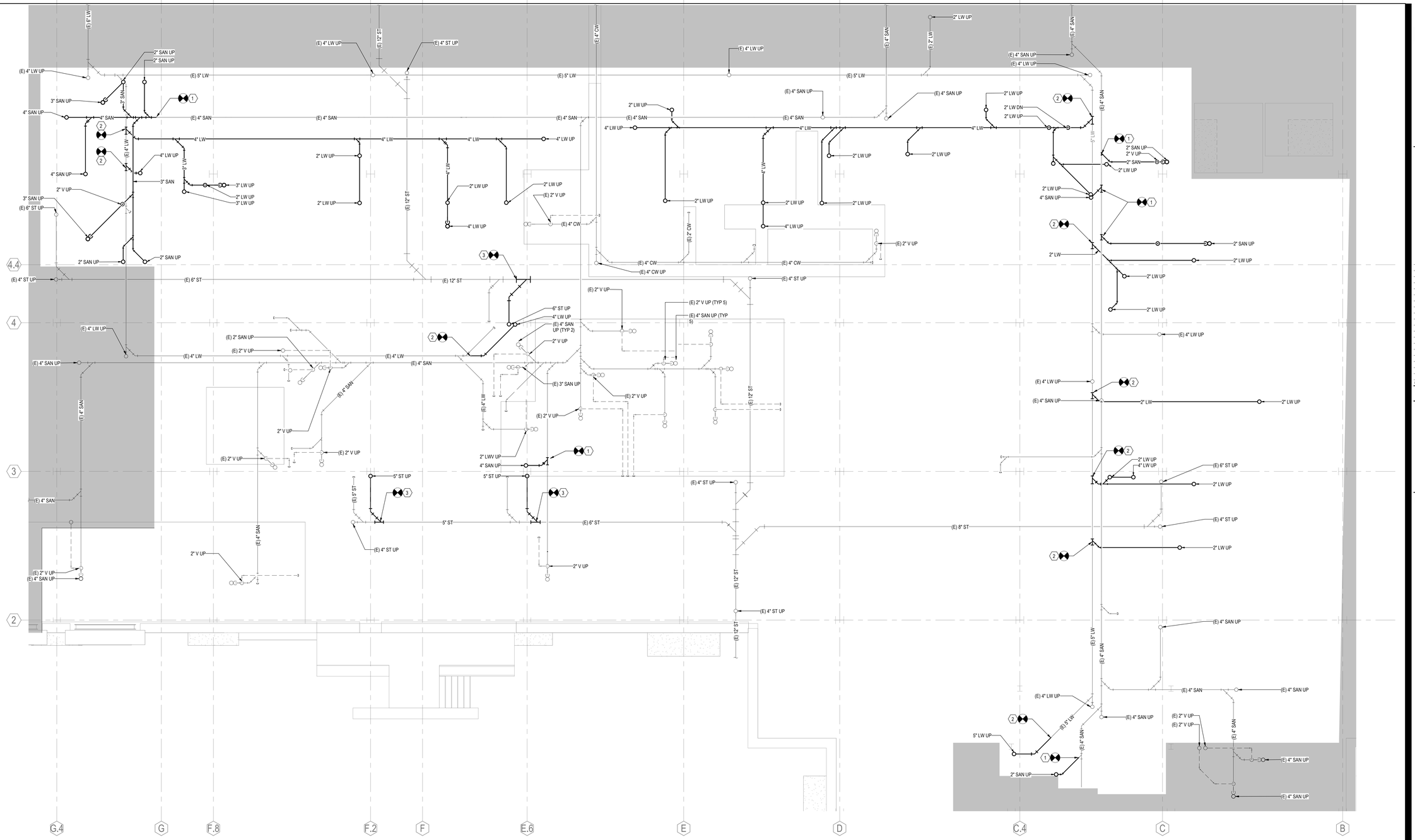
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Revision: **0**

Drawing No. **PD112**

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ORIGINAL SHEET - ARCH E1



1 PLUMBING UNDERSLAB PLAN

P100 — 3/16" = 1'-0"

KEY NOTES

1. CONNECT TO EXISTING SANITARY WASTE LINES. MATCH EXISTING PIPE SLOPE AND ELEVATION. VERIFY EXACT PIPE LOCATION IN FIELD.
2. CONNECT TO EXISTING LAB WASTE LINES. MATCH EXISTING PIPE SLOPE AND ELEVATION. VERIFY EXACT PIPE LOCATION IN FIELD.
3. CONNECT TO EXISTING STORM LINES. MATCH EXISTING PIPE SLOPE AND ELEVATION. VERIFY EXACT PIPE LOCATION IN FIELD.

GENERAL NOTES

A. UTILITY SHUTDOWNS REQUIRED TO CONDUCT CONSTRUCTION WORK WHICH IMPACTS LOCATIONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS. COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 10 DAYS IN ADVANCE.

B. COORDINATE FLOOR SLAB REMOVAL AND REPLACEMENT WITH GENERAL CONTRACTOR.

C. THE EXISTING PIPING LAYOUT SHOWN IS BASED ON ORIGINAL 1991 DESIGN DRAWINGS. EXISTING SHOP DRAWINGS DO NOT EXIST FOR THIS AREA OF THE BUILDING. BECAUSE OF THE EXISTING USE OF THE SPACE, EXACT PIPE ROUTING AND ELEVATION COULD NOT BE VERIFIED. CONTRACTORS TO FIELD DOCUMENT THE ACTUAL SYSTEM LAYOUT DURING THE DEMOLITION PHASE, AND REPORT SERIOUS DISCREPANCIES TO THE ENGINEER.

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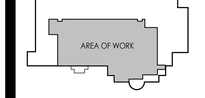
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Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

PLUMBING UNDERSLAB PLAN

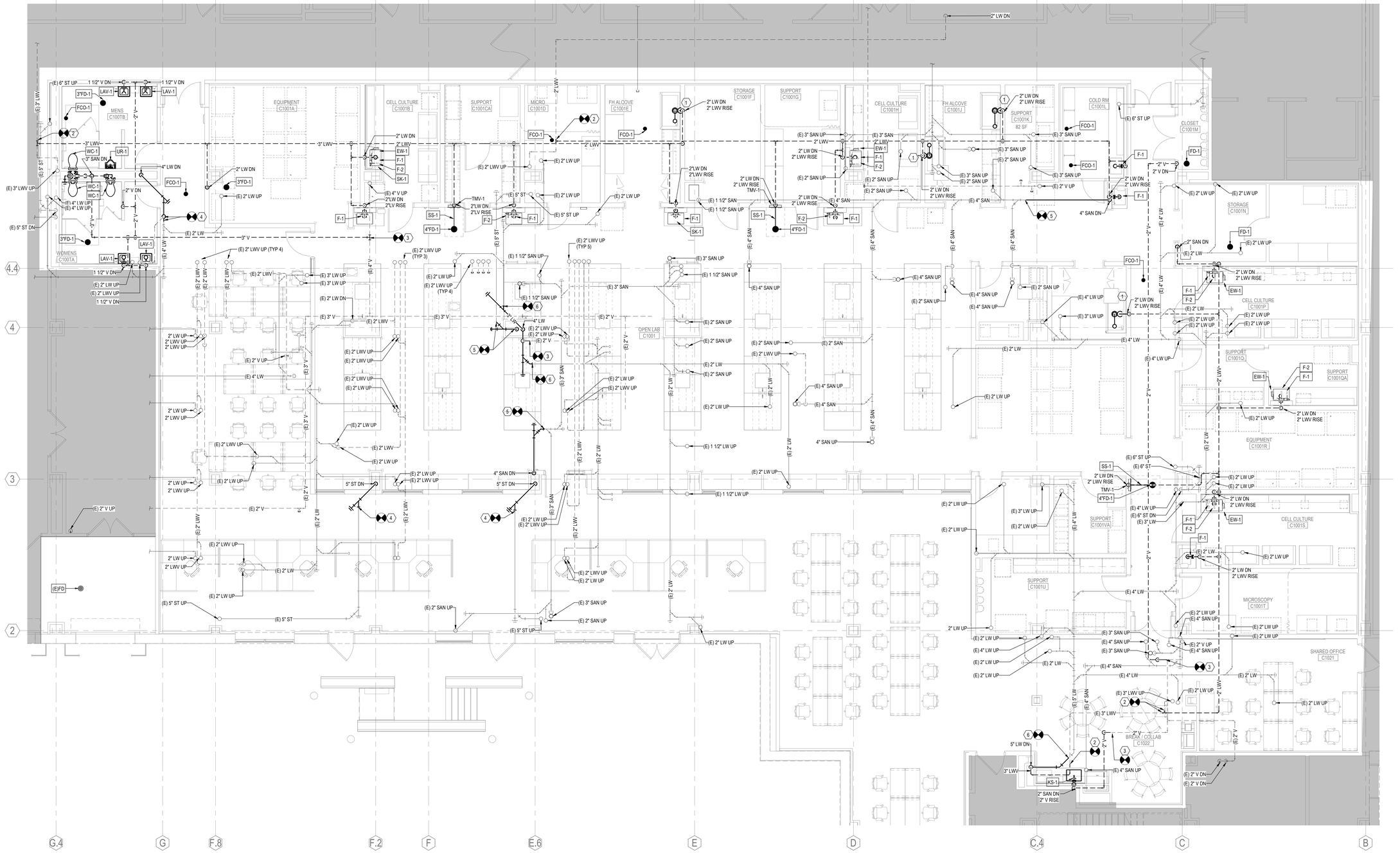
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Revision:**0**

Drawing No. **P100**

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ORIGINAL SHEET - ARCH E1



1 PLUMBING FIRST FLOOR SANITARY PLAN
P101 — 3/16" = 1'-0"

KEY NOTES

1. 1-1/2" LW CONNECTIONS TO FUMEHOOD CUP SINKS. SEE DETAIL 6/P700 FOR FITUP.
2. CONNECT PROPOSED LAB WASTE VENT MAIN INTO EXISTING MAIN ABOVE CEILING. MATCH EXISTING PIPE SLOPE AND ELEVATION. VERIFY EXACT PIPE LOCATION IN FIELD.
3. CONNECT PROPOSED SANITARY VENT MAIN INTO EXISTING MAIN ABOVE CEILING. MATCH EXISTING PIPE SLOPE AND ELEVATION. VERIFY EXACT PIPE LOCATION IN FIELD.
4. CONNECT TO EXISTING STORM IN CEILING AND REROUTE TO PROPOSED UNDERSLAB PIPING CONNECTION. VERIFY PIPE ELEVATION IN FIELD.
5. CONNECT TO EXISTING SANITARY IN CEILING AND REROUTE TO PROPOSED UNDERSLAB PIPING CONNECTION. VERIFY PIPE ELEVATION IN FIELD.
6. CONNECT TO EXISTING LAB WASTE IN CEILING AND REROUTE TO PROPOSED UNDERSLAB PIPING CONNECTION. VERIFY PIPE ELEVATION IN FIELD.

GENERAL NOTES

A. UTILITY SHUTDOWNS REQUIRED TO CONDUCT CONSTRUCTION WORK WHICH IMPACTS LOCATIONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS. COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 10 DAYS IN ADVANCE.

B. INSULATE PIPING, FITTINGS, VALVES AND SPECIALTIES.

C. PAINT EXPOSED EXISTING AND PROPOSED PIPING TO MATCH STRUCTURE COLOR FOLLOWING THE COMPLETION OF INSULATION ACTIVITIES. SEE DIVISION 9 PAINTING SPECIFICATION AND ARCHITECT'S PLANS.

D. COORDINATE FLOOR SLAB REMOVAL AND REPLACEMENT WITH GENERAL CONTRACTOR.

E. THE EXISTING PIPING LAYOUT SHOWN IS BASED ON ORIGINAL 1991 DESIGN DRAWINGS. EXISTING SHOP DRAWINGS DO NOT EXIST FOR THIS AREA OF THE BUILDING. BECAUSE OF THE EXISTING USE OF THE SPACE, EXACT PIPE ROUTING AND ELEVATION COULD NOT BE VERIFIED. CONTRACTORS TO FIELD DOCUMENT THE ACTUAL SYSTEM LAYOUT DURING THE DEMOLITION PHASE, AND REPORT SERIOUS DISCREPANCIES TO THE ENGINEER.

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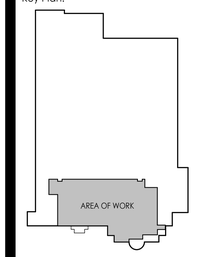
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Key Plan:



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SUCF#: 191030

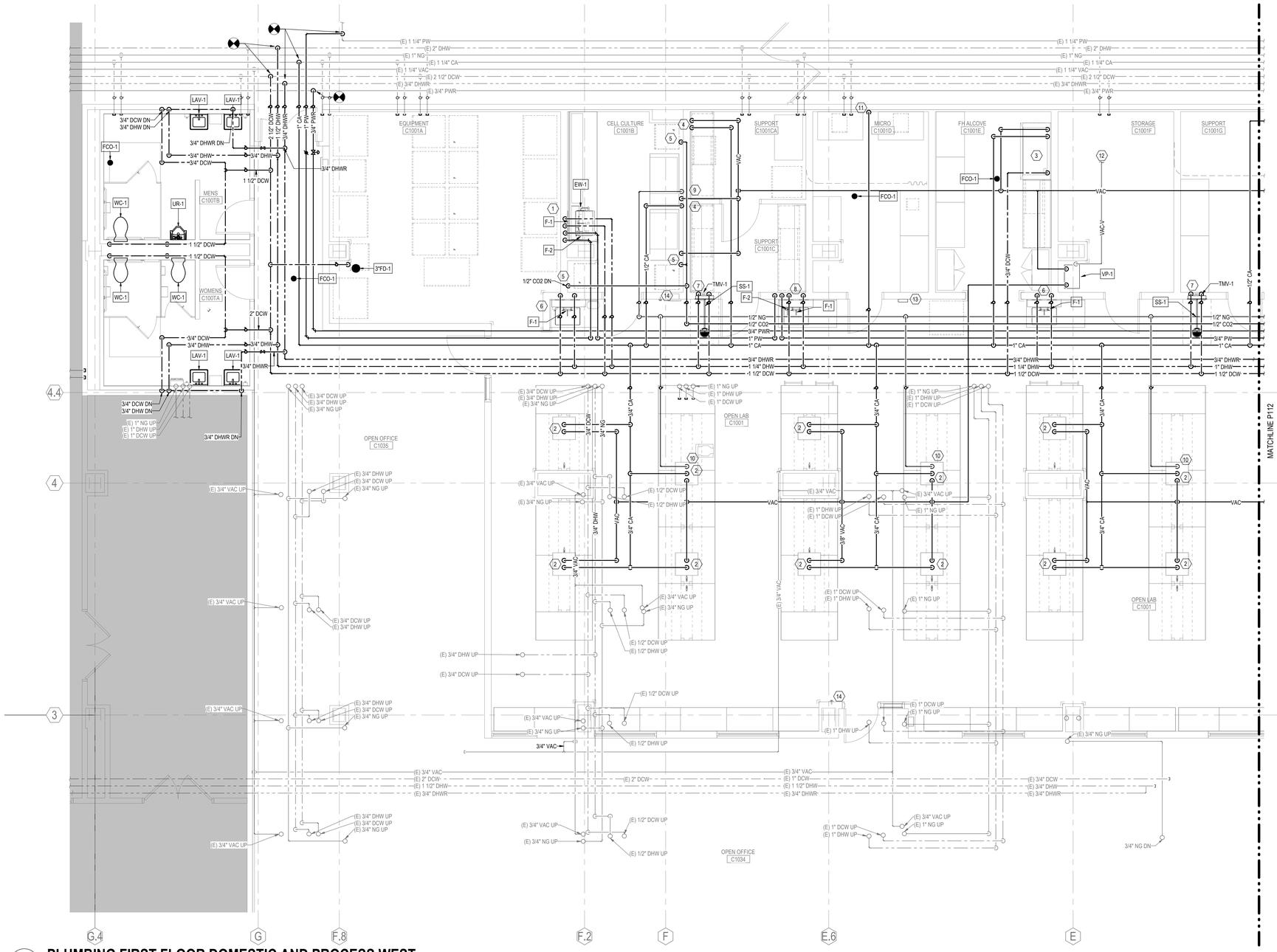
Project No.:225306010

PLUMBING FIRST FLOOR SANITARY PLAN

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Revision: **0**
Drawing No. **P101**

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ORIGINAL SHEET - ARCH E1



1 PLUMBING FIRST FLOOR DOMESTIC AND PROCESS WEST

P111 — 1/4" = 1'-0"

KEY NOTES

1. PROVIDE PW ZERO STATIC DIAPHRAM VALVE TO PROVIDE SERVICE TO PURE WATER FAUCET. 3/4" DCW AND DHW DROPS TO SINK. PROVIDE TMV-2 BELOW CASEWORK TO SERVE EYEWASH. SEE DETAIL 5/P700.
2. PROVIDED VAC TUBING AND 1/2" CA DROPS TO CEILING PANEL.
3. PROVIDED VAC TUBING, 1/2" CA, AND 3/4" DCW DROPS TO SERVICE FUME HOOD. SEE DETAIL 6/P700.
4. PROVIDED VAC TUBING AND 1/2" CA DROPS TO WALL MOUNTED TURRETS.
5. 1/2" CO2 DROP TO INCUBATOR.
6. 3/4" DCW AND DHW DROPS TO SINK. SEE DETAIL 5/P700.
7. ROUTE DCW AND DHW TO TMV-1 AND CONNECT OUTLET TEPID WATER TO EACH SAFETY STATION. SEE MANUFACTURERS INSTALLATION INSTRUCTIONS FOR ADDITIONAL DETAILS.
8. PROVIDE PW ZERO STATIC DIAPHRAM VALVE TO PROVIDE SERVICE TO PURE WATER FAUCET. 3/4" DCW AND DHW DROPS TO SINK. SEE DETAIL 5/P700.
9. 1/2" NG DROP TO WALL MOUNTED TURRET.
10. 1/2" NG DROP TO CEILING PANEL.
11. 1/2" CA DROP TO WALL MOUNTED TURRET.
12. CONNECT PROVIDED VACUUM VENT TUBING TO DEDICATED EXHAUST DUCT. SEE MANUFACTURERS INSTALLATION INSTRUCTIONS FOR DETAILS.
13. PROVIDE DEDICATED NATURAL GAS SHUTOFF VALVE STATION. VALVE STATION TO BE INTERCONNECTED WITH SOLEMOID VALVE AND SHUTOFF BUTTONS. SHUTOFF VALVE STATION BASIS OF DESIGN TO BE AMERICAN GAS SAFETY MERLIN 1000S. SEE DETAIL 8/P700.
14. PROVIDE SHUTOFF BUTTON LOCATED ADJACENT TO THE EGRESS DOOR AND SHALL BE IDENTIFIED BY APPROVED SIGNAGE STATING "GAS SHUTOFF".

GENERAL NOTES

A. UTILITY SHUTDOWNS REQUIRED TO CONDUCT CONSTRUCTION WORK WHICH IMPACTS LOCATIONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS. COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 10 DAYS IN ADVANCE.

B. INSULATE PIPING, FITTINGS, VALVES AND SPECIALTIES.

C. PAINT EXPOSED EXISTING AND PROPOSED PIPING TO MATCH STRUCTURE COLOR FOLLOWING THE COMPLETION OF INSULATION ACTIVITIES. SEE DIVISION 9 PAINTING SPECIFICATION AND ARCHITECT'S PLANS.

D. INSTALL SHUTOFF VALVES AND UNIONS AT EACH SERVICE CONNECTION TO FUME HOODS AND BIOSAFETY CABINETS.

E. THE EXISTING PIPING LAYOUT SHOWN IS BASED ON ORIGINAL 1991 DESIGN DRAWINGS. EXISTING SHOP DRAWINGS DO NOT EXIST FOR THIS AREA OF THE BUILDING. BECAUSE OF THE EXISTING USE OF THE SPACE, EXACT PIPE ROUTING AND ELEVATION COULD NOT BE VERIFIED. CONTRACTORS TO FIELD DOCUMENT THE ACTUAL SYSTEM LAYOUT DURING THE DEMOLITION PHASE, AND REPORT SERIOUS DISCREPANCIES TO THE ENGINEER.

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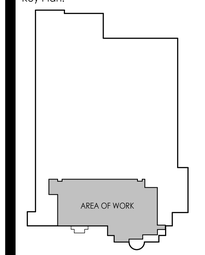
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Key Plan:



Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

PLUMBING FIRST FLOOR SUPPLY SYSTEMS WEST PLAN

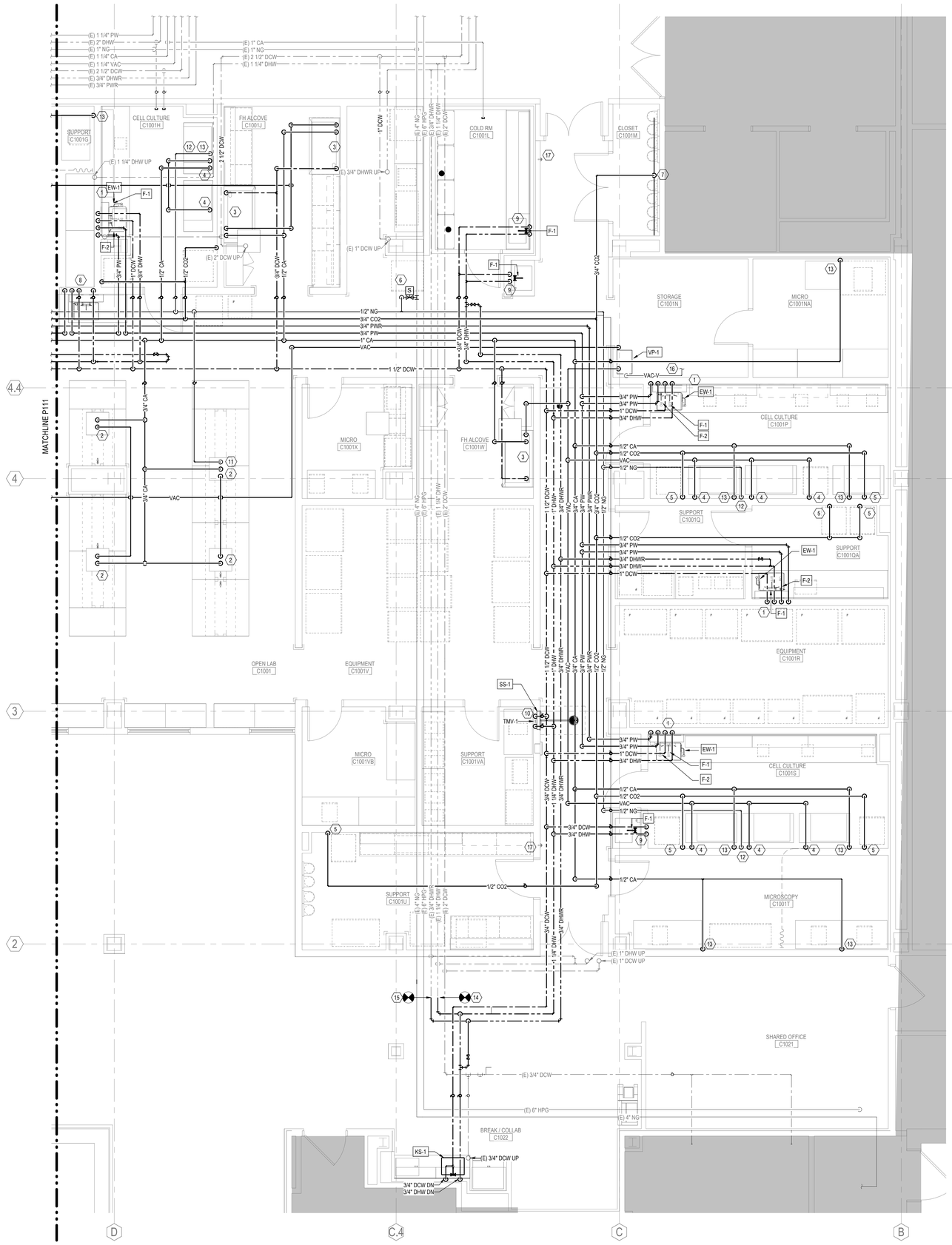
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Revision: 0

Drawing No. **P111**

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ORIGINAL SHEET - ARCH E1



1 PLUMBING FIRST FLOOR DOMESTIC AND PROCESS EAST

P112 1/4" = 1'-0"

KEY NOTES

1. PROVIDE PW ZERO STATIC DIAPHRAM VALVE TO PROVIDE SERVICE TO PURE WATER FAUCET. 3/4" DCW AND DHW DROPS TO SINK. PROVIDE TMV-2 BELOW CASEWORK TO SERVE EYEWASH. SEE DETAIL 5/P700.
2. VAC TUBING AND 1/2" CA DROPS TO CEILING PANELS.
3. VAC TUBING, 1/2" CA, AND 3/4" DCW DROPS TO FUME HOODS. SEE DETAIL 6/P700.
4. VAC TUBING DROP TO BIOSAFETY CABINETS.
5. 1/2" CO2 DROP TO INCUBATOR. PROVIDE SHUT OFF VALVE, REGULATOR, AND QUICK CONNECT FITTINGS FOR EACH INCUBATOR CONNECTION.
6. LOCATION OF NATURAL GAS SHUTOFF SOLENOID VALVE.
7. 1" CO2 SUPPLY FROM CYLINDER MANIFOLD. ROUTE VENT FROM MANIFOLD TO EXHAUST DUCT. REFER TO 7/P700 FOR FIT UP.
8. PROVIDE PW ZERO STATIC DIAPHRAM VALVE TO PROVIDE SERVICE TO PURE WATER FAUCET. 3/4" DCW AND DHW DROPS TO SINK. SEE DETAIL 5/P700.
9. 1/2" DCW AND DHW DROPS TO SINK. SEE DETAIL 5/P700.
10. ROUTE DCW AND DHW TO TMV-1 AND CONNECT OUTLET TEPID WATER TO EACH SAFETY STATION. SEE MANUFACTURERS INSTALLATION INSTRUCTIONS FOR ADDITIONAL DETAILS.
11. 1/2" NG DROP TO CEILING PANEL.
12. 1/2" NG DROP TO WALL MOUNTED TURRET.
13. 1/2" CA DROP TO WALL MOUNTED TURRET.
14. CONNECT 1-1/4" DHW TO EXISTING 1-1/4" DHW.
15. CONNECT 3/4" DHW TO EXISTING 3/4" DHW.
16. CONNECT PROVIDED VACUUM VENT TUBING TO DEDICATED EXHAUST DUCT. SEE MANUFACTURERS INSTALLATION INSTRUCTIONS FOR DETAILS.
17. PROVIDE SHUTOFF BUTTON LOCATED ADJACENT TO THE EGRESS DOOR AND SHALL BE IDENTIFIED BY APPROVED SIGNAGE STATING "GAS SHUTOFF".

GENERAL NOTES

A. UTILITY SHUTDOWNS REQUIRED TO CONDUCT CONSTRUCTION WORK WHICH IMPACTS LOCATIONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS. COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 10 DAYS IN ADVANCE.

B. INSULATE PIPING, FITTINGS, VALVES AND SPECIALTIES.

C. PAINT EXPOSED EXISTING AND PROPOSED PIPING TO MATCH STRUCTURE COLOR FOLLOWING THE COMPLETION OF INSULATION ACTIVITIES. SEE DIVISION 9 PAINTING SPECIFICATION AND ARCHITECT'S PLANS.

D. INSTALL SHUTOFF VALVES AND UNIONS AT EACH SERVICE CONNECTION TO FUME HOODS AND BIOSAFETY CABINETS.

E. THE EXISTING PIPING LAYOUT SHOWN IS BASED ON ORIGINAL 1991 DESIGN DRAWINGS. EXISTING SHOP DRAWINGS DO NOT EXIST FOR THIS AREA OF THE BUILDING. BECAUSE OF THE EXISTING USE OF THE SPACE, EXACT PIPE ROUTING AND ELEVATION COULD NOT BE VERIFIED. CONTRACTORS TO FIELD DOCUMENT THE ACTUAL SYSTEM LAYOUT DURING THE DEMOLITION PHASE, AND REPORT SERIOUS DISCREPANCIES TO THE ENGINEER.

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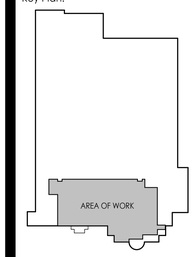
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Key Plan:



Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

PLUMBING FIRST FLOOR SUPPLY SYSTEMS EAST PLAN

Scale: As indicated

Revision: **0**

Drawing No. **P112**

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ORIGINAL SHEET - ARCH E1

PLUMBING PIPING SYSTEM APPLICATION SCHEDULE

SYSTEM	ABBREVIATION	AREA OR SYSTEM SERVED	PIPE LOCATION	PIPE SIZE (DN)	PIPING MATERIAL										JOINING METHOD						CONSTRUCTION					INSULATION				FACTORY...			FIELD JACKET					
					COPPER TYPE L - ASTM B 88	COPPER TYPE DWV - B306	SERVICE WEIGHT CAST IRON- ASTM A88	SCHEDULE 40 SOLID CORE PVC	COPPER TYPE L - ASTM B 819, MEDICAL GRADE	SCHEDULE 80 CPVC	SCHEDULE 40 POLYOLEFIN FRPP	POLYPROPYLENE - ASTM D4101 SDR. 11	POLYPROPYLENE - ASTM D4101 SDR 17.6	SOLDERED	PRESSURE-SEALED JOINT FITTINGS	HUBLESS FITTINGS	HUB AND SPIGOT FITTINGS	SOLVENT WELDED	BRAZED	HEAT FUSION	MECHANICAL FUSION	OPERATING TEMPERATURE (°F)	MINIMUM WORKING PRESSURE (PSI)	TEST PRESSURE (PSI)	TEST DURATION (HRS)	ACCEPTANCE LEVEL	MINERAL FIBER PREFORMED	FLEXIBLE ELASTOMERIC	THICKNESS (IN)	DENSITY (PCF)	ASJ	ASJ-SSL	FSK	PVC ALL	PVC FITTINGS	PVC TO 10 FEET	ALUMINUM	STAINLESS STEEL
COMPRESSED AIR	CA	LAB	ABOVEGROUND	1/2" AND SMALLER	X									X							VARIES	110	150	NOTES 3, 4	ZERO LOSS/LEAKS											
		LAB		3/4" AND LARGER	X									X							VARIES	110	150	NOTES 3, 4	ZERO LOSS/LEAKS											
CARBON DIOXIDE	CO2	LAB	ABOVEGROUND	ALL SIZES					X									X			40 - 140	125	200	2	ZERO LOSS/LEAKS											
DOMESTIC WATER	DCW / DHW / DHWR	ENTIRE PROJECT	ABOVEGROUND	ALL SIZES	X									X							40 - 140	100	150	1	ZERO LOSS/LEAKS	X		1	1		X			X		
				2" AND SMALLER	X										X																					
LAB WASTE & VENT	LWL/LWV	LAB	ABOVEGROUND	ALL SIZES							X									X	30 - 140	0.5	NOTE 1	0.5	ZERO LOSS/LEAKS											
NATURAL GAS	NG	LAB	ABOVEGROUND	2" AND SMALLER						X											0 - 140	14" W.C.	3 PSI	2	ZERO LOSS/LEAKS											
				2-1/2" AND LARGER						X																										
SANITARY WASTE & VENT	SAN/V	RESTROOMS	ABOVEGROUND	4" AND SMALLER		X								X							30 - 140	0.5	NOTE 1	0.5	ZERO LOSS/LEAKS											
				ALL SIZES			X								X																					
			UNDERGROUND	ALL SIZES			X									X					30 - 140	0.5	NOTE 1	0.5	ZERO LOSS/LEAKS											
				ALL SIZES				X									X																			
STORM	ST	ENTIRE PROJECT	ABOVEGROUND	4" AND SMALLER		X								X							30 - 140	0.5	NOTE 1	0.5	ZERO LOSS/LEAKS	X SEE NOTE 1		1	1							
				ALL SIZES			X								X																					
			UNDERGROUND	ALL SIZES			X									X					30 - 140	0.5	NOTE 1	0.5	ZERO LOSS/LEAKS											
				ALL SIZES				X									X																			
PURE WATER	PWS/PWS	LAB	ABOVEGROUND	ALL SIZES								X								X	40 - 140	50	100	12	ZERO LOSS/LEAKS											

NOTES:
1. CLOSE OPENING IN PIPING SYSTEM AND FILL TO POINT OF OVERFLOW BUT NOT LESS THAN 10 FOOT HEAD OF WATER.
2. ASTM B 819 - STANDARD SPECIFICATION FOR SEAMLESS COPPER TUBE FOR MEDICAL GAS SYSTEM. MEDICAL GAS TUBE SHALL BE IDENTIFIED BY THE MANUFACTURER'S MARKINGS "OXY," "MED," "OXY/MED," "OXY/ACR," OR "ACR/MED" IN BLUE (TYPE L) OR GREEN (TYPE K). VALVES AND FITTINGS FOR THESE SYSTEMS SHALL BE CLEANED AND BAGGED ACCORDINGLY .
3. INITIAL PRESSURE TEST - TEST PRESSURE SHALL BE MAINTAINED UNTIL EACH JOINT HAS BEEN EXAMINED FOR LEAKAGE BY MEANS OF A LEAK DETECTANT THAT IS SAFE TO USE WITH OXYGEN AND DOES NOT CONTAIN AMMONIA.
4. STANDING PRESSURE TEST - AFTER THE FINAL INSTALLATION OF STATION OUTLET VALVE BODIES, FACEPLATES, AND OTHER DISTRIBUTION SYSTEM COMPONENTS(I.E. PRESSURE ALARM DEVICES, PRESSURE INDICATORS, ETC.) SUBJECT PIPING SYSTEM TO 24 HOUR STANDING TEST WITH OIL-FREE, DRY NITROGEN NF. TEST PRESSURES SHALL BE 20% ABOVE THE NORMAL SYSTEM OPERATING PRESSURE.
5. THE USE OF THE FOLLOWING PIPING SPECALTIES ARE DISALLOWED DUE TO CORNELL'S EXPERIENCE WITH INCREASED FREQUENCY OF MAINTENANCE:
   A. DIELECTRIC UNIONS
   B.AUTOMATIC FLOW CONTROL VALVES
   C. COMBINATION DEVICES AND PRE-PIPED MANUFACTURER COIL FIT-OUT KITS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
      1. MANUAL BALANCE/CONTROL/BALL ISOLATION VALVES
      2. Y-STRAINER/BALL ISOLATION VALVES
      3. BALANCING/SHUTOFF VALVES
      4. BALL ISOLATION/DRAIN VALVES.
   D.TRIPLE DUTY VALVES
6. HORIZONTAL STORM PIPING REQUIRES INSULATION.

PLUMBING FIXTURES SCHEDULE

DESIGNATION	FIXTURE TYPE		MANUFACTURER	MODEL NUMBER	COLD WATER SUPPLY	HOT WATER SUPPLY	PURE WATER SUPPLY	VENT PIPE SIZE	WASTE PIPE SIZE	TRAP SIZE	ADA COMPLIANT	NOTES
F-1	LAB SINK	FAUCET	WATERSAVER	L1714VB-WSA	1/2"	1/2"	-	-	-	-	YES	PROVIDE WITH DEDICATED ASSE 1071 MIXING VALVE TMV-2, LOCATED UNDER CASEWORK.
F-2		PURE WATER FAUCET	WATERSAVER	L2794WSA-LH-BH	-	-	1/2"	-	-	-		
EW-1		EYEWASH	GUARDIAN	G1806	1/2"	1/2"	-	-	-	-		
SK-1		LAB SINK BASIN	BY CASEWORK VENDOR		-	-	-	1-1/2"	2"	1-1/2"		
SS-1	EMERGENCY SAFETY STATION		GUARDIAN	GBF2170	1-1/4"	1"	-	1-1/2"	2"	-	YES	RECESSED LABORATORY UNIT. PROVIDE WITH MIXING VALVE TMV-1.
KS-1	PANTRY SINK		CHICAGO FAUCETS	434-ABCP	1/2"	1/2"	-	1-1/2"	2"	1-1/2"	YES	COORDINATE COUNTER OPENINGS WITH CASEWORK VENDOR. PROVIDE OFFSET DRAIN TAILPIECE.
	PANTRY SINK BASIN		ELKAY	ECTSRAD252267BG								
LAV-1	WALL-HUNG, HANDICAPPED ACCESSIBLE LAVATORY SINK		SLOAN	ELC-81000	1/2"	1/2"	-	1-1/2"	1-1/2"	1-1/4"	YES	PROVIDE LAVATORY CARRIER FOR EACH SINK. PROVIDE TRAP AND SUPPLY GUARDS. HARD WIRED FAUCET AND MIXING VALVE. 0.35 GPM MAX.
	FAUCET		SLOAN	EBF-415-TUR-BOT-CP-0.35GPM-MLM-FCT								
UR-1	WALL MOUNTED URINAL		AMERICAN STANDARD	6590.001	3/4"	-	-	2"	2"	INTERNAL	YES	FLUSH VALVE TO BE 0.5 GPF. HARDWIRED FLUSH VALVE. PROVIDE TRANSFORMER WITH EACH...
	FLUSH VALVE		SLOAN	ROYAL 186 SFSM								
WC-1	WALL MOUNTED WATER CLOSET		AMERICAN STANDARD	2257.101	1"	-	-	2"	4"	INTERNAL	YES	FLUSH VALVE TO BE DUAL FLUSH 1.1/1.28 GPF. HARDWIRED FLUSH VALVE. PROVIDE TRANSFORMER WITH EACH FLUSH VALVE. PROVIDE BEMIS 2155SSCT SEAT OR APPROVED...
	FLUSH VALVE		SLOAN	ROYAL 111 SFSM								

NOTES:
1. ALL FIXTURES TO BE MOUNTED AT ELEVATIONS INDICATED ON THE ARCHITECTURAL DRAWINGS UNLESS OTHERWISE NOTED.

PLUMBING DRAIN SCHEDULE

UNIT IDENTIFICATION	DRAIN TYPE	MODEL NUMBER	BODY: CAST IRON	NICKEL BRONZE	POLYMER CONCRETE	BOTTOM OUTLET	SIDE OUTLET	CLAMPING DEVICE	HUBLESS OUTLET	INSIDE GASKET	THREADED	TRAP PRIMER CONNECTION	STRAINER/TOP: CAST IRON	DUCTILE IRON	PROCELAIN ENAMEL COATED	STAINLESS STEEL	FLAT TOP	FUNNEL TOP	VERTICAL ADJUSTMENT	VANDAL PROOF	STRAINER /COVER SIZE	REMARKS: LOCATION/ NOTES
FD-1	FLOOR DRAIN	ZURN ZS415-BS	X			X		X								X	X		X	X	6" DIA.	FINISHED AREAS
FCO-1	FLOOR CLEANOUT	ZURN ZS1400-5B-BP-VP	X			X		X								X	X		X	X	5" DIA.	FINISHED AREAS

NOTES:
1. PROVIDE ASSE 1072 CERTIFIED TRAP SEALING INSERT FOR ALL DRAINS WITH TRAPS SUBJECT TO EVAPORATION.

MIXING VALVE SCHEDULE

MARK	SYSTEM SERVED	DCW INLET (IN.)	DHW INLET (IN.)	DHW OUTLET (IN.)	MIN FLOW (GPM)	DESIGN FLOW (GPM)	MAX PRESSURE DROP AT DESIGN FLOW (PSI)	HOT WATER INLET TEMP (F)	HOT WATER OUTLET TEMP (F)	MANUFACTURER	MODEL NUMBER	STANDARD	NOTES
TMV-1	SAFETY SHOWERS (SS-1)	1	1	1-1/4	3	23	5	110	85	GUARDIAN	G6040	ASSE 1071	1
TMV-2	EYEWASHES (EW-1)	1/2	1/2	1/2	0.8	3	5	110	85	GUARDIAN	G6020	ASSE 1071	1

NOTES:
1. INSTALL IN ACCESSIBLE LOCATION.

VACUUM PUMP SCHEDULE

UNIT IDENTIFICATION: MARK	LOCATION	PUMP: NOISE LEVEL (DBA)	ULTIMATE VACUUM (torr)	MAX SYSTEM CAPACITY (ACFM)	ELECTRICAL: KW	VOLTS	PHASE	OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL NUMBER	NOTES
VP-1	STORAGE ROOMS	47	53	11.4	0.53	120	1	65	VACUUBRAND	PC3016 NT	1, 2, 3

NOTES:
1. PROVIDE WITH VARIO SELECT CONTROLLER.
2. PROVIDED AS PART OF A PACKAGED VACUUM SYSTEM THAT INCLUDES VACUUM AND VACUUM VENT TUBING, FITTINGS, VALVES, AND OUTLETS. CONTRACTOR SHALL ENGAGE WITH MANUFACTURER FOR TUBING ROUTING AND SIZING.
3. PROVIDE WITH DEDICATED SHELF.

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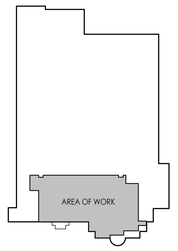
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Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

PLUMBING SCHEDULES

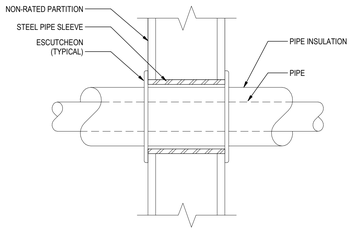
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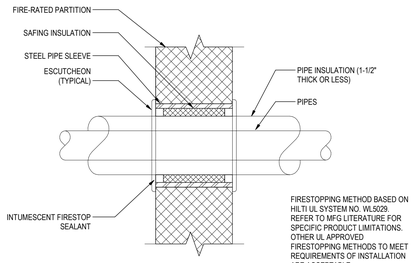
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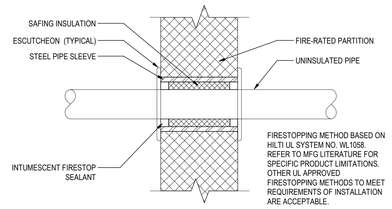
1 P700 INSULATED PIPE PENETRATIONS OF NON RATED PARTITIONS

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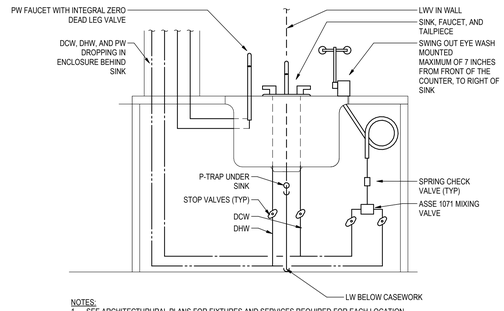
2 P700 FIRESTOPPED, INSULATED PIPE PENETRATION OF RATED PARTITIONS

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3 P700 FIRESTOPPED, UNINSULATED PIPE PENETRATION OF RATED PARTITIONS

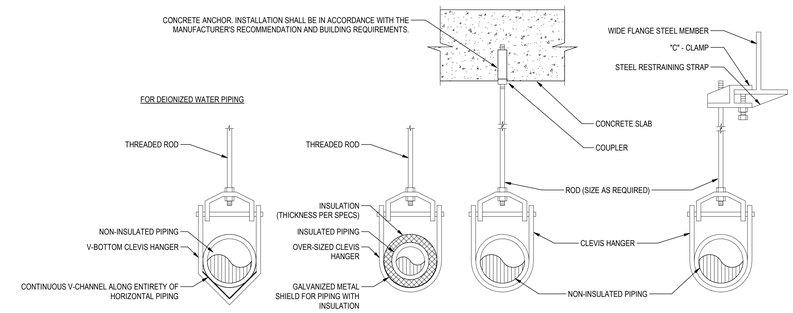
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NOTES:
1. SEE ARCHITECTURURAL PLANS FOR FIXTURES AND SERVICES REQUIRED FOR EACH LOCATION.
2. PROVIDE VACUUM BREAKER FOR SINK FAUCET.

4 P700 SINK FITUP DETAIL WITH EYEWASH AND PW FAUCET

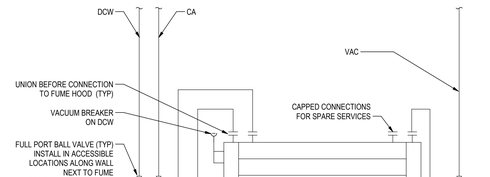
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NOTES:
1. HANGERS AND RODS SHALL BE HOT-DIPPED GALVANIZED IN AREAS NOT SUBJECT TO CORROSION.
2. IN CORROSIVE ENVIRONMENTS, HANGERS AND RODS SHALL BE STAINLESS STEEL.

5 P700 PLUMBING PIPE HANGER DETAILS

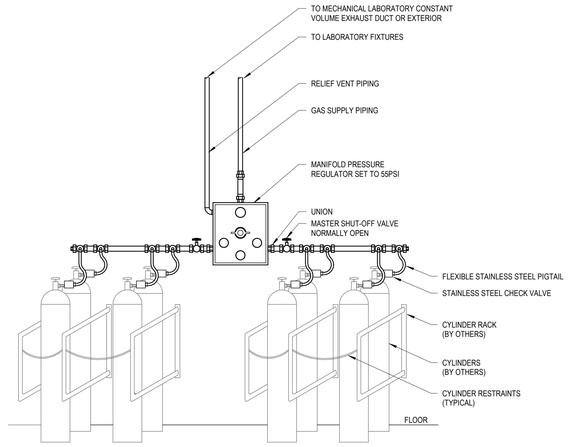
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NOTES:
1. VACUUM CONNECTION SYSTEM FOR HOODS FROM BRANDTECH.
2. SEE ARCHITECTURE LAB PLANS FOR SERVICES TO FUME HOODS/BIOSAFETY CABINETS. NOT ALL SERVICES SHOWN ARE NECESSARILY PROPOSED FOR INSTALLATION AT EACH LOCATION.

6 P700 FUME HOOD FITUP DETAIL

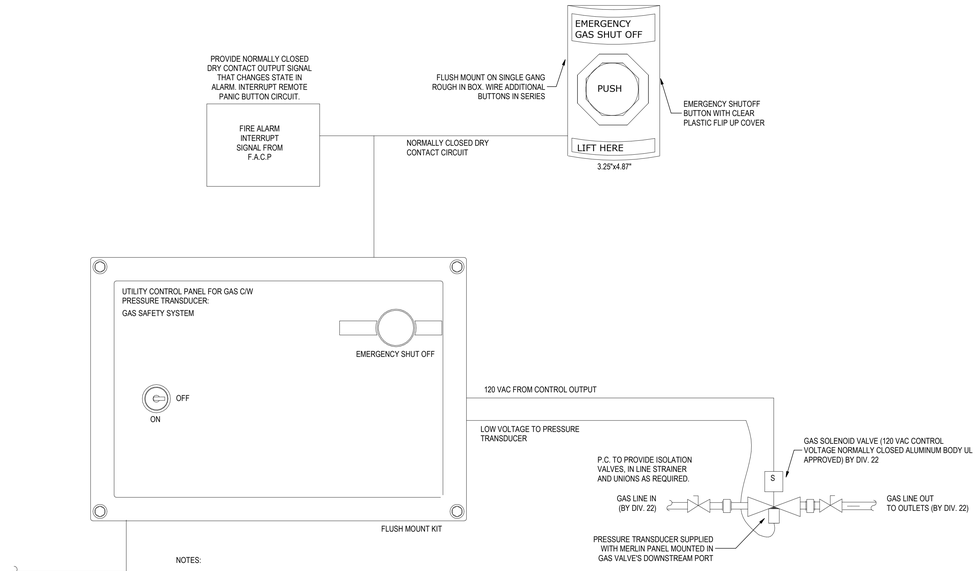
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NOTE:
1. BASIS OF DESIGN BEACON MEDEAS DFAM-S-320-8-10S-VV MANIFOLD.

7 P700 LABORATORY GAS MANIFOLD DETAIL

1/8" = 1'-0"



NOTES:
1. TYPICAL SEQUENCE OF OPERATION. KEY LOCK AUTHORITY REQUIRED TO OPEN GAS SOLENOID. CONTROL PANEL TO PERFORM PRESSURE DROP TEST BEFORE ALLOWINGGAS INTO CLASSROOM. IN EMERGENCY PANIC BUTTON WILL CLOSE ALL CIRCUITS.
2. VERIFY LOCATIONS OF CONTROLLER, REMOTE SHUT-OFF BUTTONS AND SOLENOID WITH DRAWINGS AND OWNER IN FIELD.
3. UNLESS NOTED OTHERWISE, P.C. TO SUPPLY CONTROLLER, REMOTE SHUT-OFF BUTTONS, GAS DETECTOR AND SOLENOID AS A WHOLE SYSTEM. P.C. TO COORDINATE WITH E.C.
4. UNLESS NOTED OTHERWISE, WIRING, ELECTRICAL CONNECTIONS AND TESTING BY DIV.26. COORDINATE GAS SOLENOID VALVE LOCATION AND FEILD WIRING WITH DIV. 22.
5. PRESSURE TRANSDUCER SUPPLIED WITH CONTROL PANEL, INSTALLED IN DOWNSTREAM PORT OF GAS SOLENOID SUPPLIED BY P.C. SEE MANUFACTURER'S DETAILS.
6. 120V AC SUPPLY TO CONTROLLER. 120V AC SUPPLY FROM CONTROLLER TO SOLENOID. LOW VOLTAGE SUPPLY SIGNAL TO PRESSURE TRANSDUCER. 12V DC SUPPLY FROM CONTROLLER TO GAS DETECTOR.
7. FIRE ALARM CONTROL MODULE OUTPUT INTERRUPTS EMERGENCY SHUTOFF (EPO) BUTTON CIRCUIT.
8. BASIS OF DESIGN AGS MERLIN 1000S UTILITY CONTROL SYSTEM.

8 P700 GAS CONTROL DIAGRAM

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SUCF#: 191030

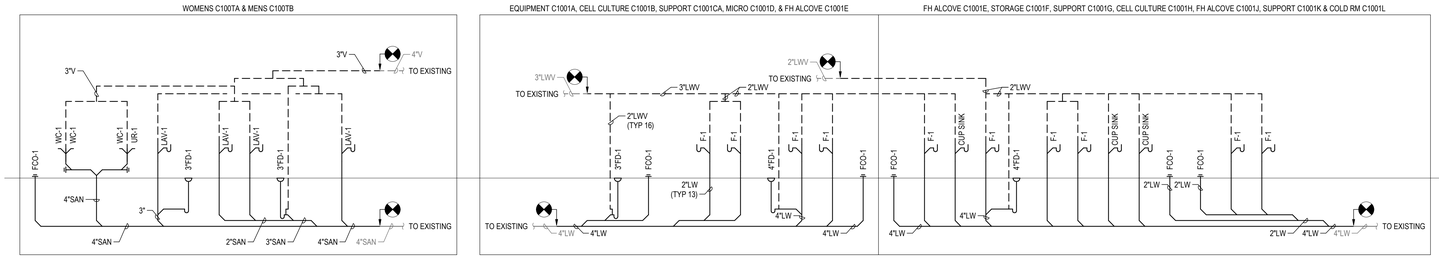
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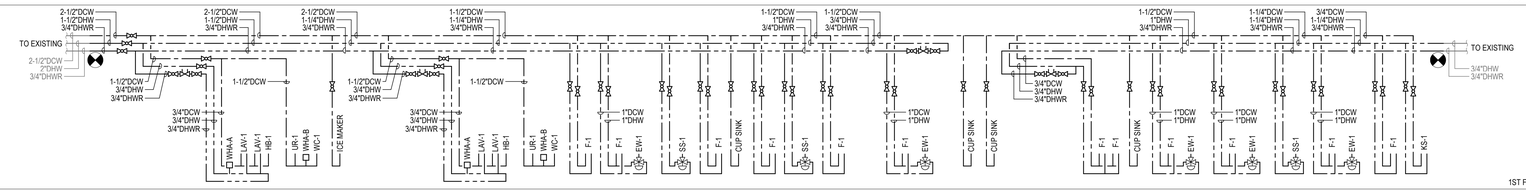
ORIGINAL SHEET - ARCH E1



NOTES
1. FOR FIXTURE CONNECTION SIZES, SEE PLUMBING FIXTURE SCHEDULE.
2. 3"V CONNECTION TO EXISTING VENT LINE.

1 P800 SANITARY AND LAB WASTE RISER DIAGRAMS

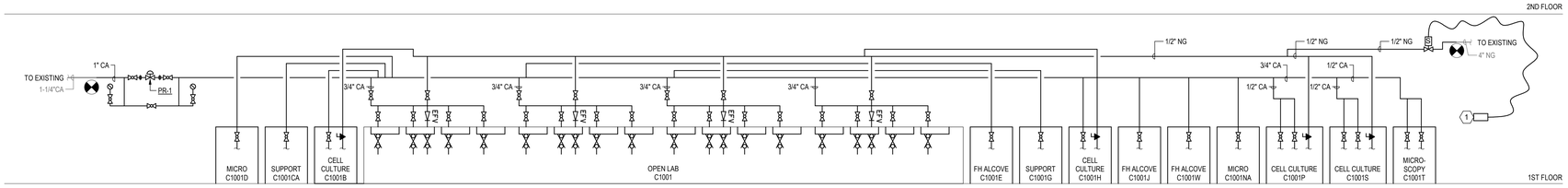
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NOTES
1. FOR FIXTURE CONNECTION SIZES, SEE PLUMBING FIXTURE SCHEDULE.
2. 3"V CONNECTION TO EXISTING VENT LINE.

2 P800 DOMESTIC WATER RISER DIAGRAM

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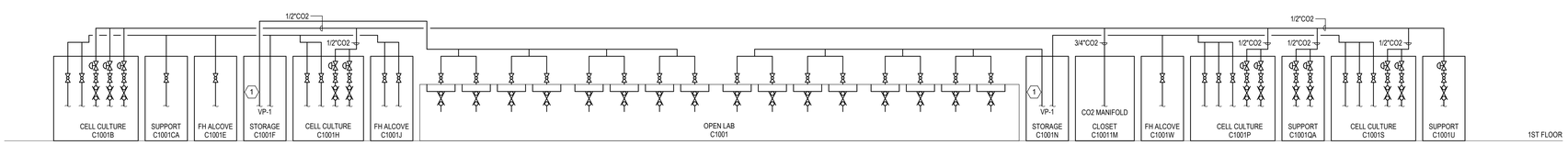


NOTES
1. FOR FIXTURE CONNECTION SIZES, SEE PLUMBING FIXTURE SCHEDULE.

KEYNOTES
1. LAB GAS CONTROL PANEL WITH EMERGENCY SHUT OFF AND KEYED TURN ON. WIRED TO NORMALLY CLOSED SOLENOID VALVE AT RISER. TYPICAL.

3 P800 LAB GAS RISER DIAGRAM

N.T.S.



NOTES
1. FOR FIXTURE CONNECTION SIZES, SEE PLUMBING FIXTURE SCHEDULE.

KEYNOTES
1. NEW VACUUM PUMP, PIPING, AND VALVES SUPPLIED BY VENDOR.

4 P800 VACUUM AND CO2 RISER DIAGRAM

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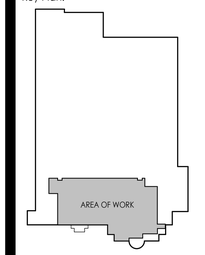
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PLUMBING RISER DIAGRAMS

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ORIGINAL SHEET - ARCH E1

PIPING SYMBOL LIST

- PIPE ANCHOR
- PIPE GUIDE
- EXPANSION JOINT (SEE SPECIFICATION FOR TYPE)
- UNION
- PIPE FLANGE
- CAPPED PIPE
- CAPPED AND VALVE CONNECTION
- STRAINER
- ELBOW TURNED UP
- ELBOW TURNED DOWN
- BOTTOM PIPE CONNECTION
- TOP PIPE CONNECTION
- FLEXIBLE CONNECTION
- ISOLATION VALVE NPS 2" AND SMALLER: BALL VALVE NPS 2-1/2" AND ABOVE: BUTTERFLY VALVE
- SHUT-OFF VALVE (BALL VALVE SEE SPECS)
- PRESSURE REDUCING VALVE
- PLUG VALVE
- VALVE IN VERTICAL PIPE
- HOSE BIBB
- PIPE SENSOR WELL
- PIPE SLEEVE
- FLOW METER (M / FLOW)
- BTU METER (M / BTU)
- FLOW SWITCH (F)
- PRESSURE CONTROL (P)
- PRESSURE RELIEF VALVE
- PUMP
- PITCH PIPE DOWN IN DIRECTION OF ARROW
- STRAINER WITH BLOWDOWN VALVE BRASS HOSE CONNECTION CAP AND CHAIN
- TWO-WAY CONTROL VALVE, DIGITAL
- THREE-WAY CONTROL VALVE, DIGITAL
- SINGLE CHECK VALVE
- DOUBLE CHECK VALVE
- TO PRESSURE GAUGE MANIFOLD
- BALANCING VALVE
- GLOBE VALVE
- MANUAL AIR VENT
- AUTOMATIC AIR VENT
- PRESSURE GAUGE WITH ISOLATION VALVE
- PIPE REDUCER, ECCENTRIC
- PIPE REDUCER, CONCENTRIC
- PRESSURE/TEMPERATURE TEST PORT
- THERMOMETER
- BACKFLOW PREVENTER
- SAFETY RELIEF VALVE
- STEAM TRAP
- TEMPERATURE WELL
- PRESSURE SUSTAINING VALVE

DUCTWORK SYMBOL LIST

- 18X12 — DUCT SIZE (FIRST FIGURE INDICATES HORIZONTAL SIZE)
- 18Ø — ROUND DUCT DIAMETER
- ACCESS DOOR IN DUCT
- R — GRADUAL RISE IN DUCT
- D — GRADUAL DRIP IN DUCT
- ELBOW WITH TURNING VANES
- RADIUS ELBOW
- DUCT SPLIT
- BRANCH TAKEOFF
- DOUBLE LINE DUCTWORK CONTINUATION
- EXISTING DUCTWORK TO REMAIN
- EXISTING DUCTWORK TO BE REMOVED
- NEW DUCT WORK
- REGISTER (SUPPLY)
- REGISTER RETURN OR EXHAUST
- VOLUME DAMPER
- FD — FIRE DAMPER W/DUCT ACCESS DOOR (FD/AD)
- M — MOTORIZED DAMPER W/DUCT ACCESS DOOR
- F.S.D. — COMBINATION FIRE/SMOKE DAMPER W/DUCT ACCESS DOOR
- S.D. — SMOKE DAMPER W/DUCT ACCESS DOOR
- FLEXIBLE CONNECTION
- SUPPLY DUCT UP
- SUPPLY DUCT DOWN
- RETURN OR EXHAUST DUCT UP
- RETURN OR EXHAUST DUCT DOWN
- ELBOW WITH TURNING VANES
- RADIUS ELBOW
- DUCT SPLIT OR BRANCH TAKEOFF
- DL — DOOR LOUVER

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
ABV	AUTOMATIC BALANCING VALVE
AD	ACCESS DOOR
ABD	AUTOMATIC BALANCING DAMPER
AFF	COMPRESSED AIR HIGH PRESSURE
AFS	AIR FLOW MEASURING STATION
AHU	AIR HANDLING UNIT
AMS	AIR MEASURING STATION
AP	ACCESS PANEL
ATC	AUTOMATIC TEMPERATURE CONTROL
AWT	AVERAGE WATER TEMPERATURE
BCU	BLOWER COIL UNIT
BD	BALANCE DAMPER
BDD	BACKDRAFT DAMPER
BI/BO	BAG IN / BAG OUT
BHP	BRAKE HORSEPOWER
BOI	BOTTOM OF INSULATION
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BSC	BIO-SAFETY CABINET
BSL	BIO-SAFETY LEVEL
BTD	BUBBLE TIGHT DAMPER
BTU	BRITISH THERMAL UNITS
BTUH	BTU'S PER HOUR
C	CONDENSATE
CC	COOLING COIL
CD	CEILING DIFFUSER
CDR	CEILING DIFFUSER, ROUND
CFM	CUBIC FEET PER MINUTE
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CO	CLEAN OUT
COD	CENTER OF DUCT
CUH	CABINET UNIT HEATER
CV	CONTROL VALVE
CVE	CONSTANT VOLUME EXHAUST
CVR	CONSTANT VOLUME RETURN
CVS	CONSTANT VOLUME SUPPLY
CWS	CONVECTOR WATER SUPPLY
CWR	CONVECTOR WATER RETURN
DB	DRY BULB
DCW	DOMESTIC COLD WATER
DIA	DIAMETER
DFD	DYNAMIC FIRE DAMPER WITH ACCESS DOOR
DN	DOWN
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
DV	DRAIN VALVE
EA	EXHAUST AIR
EAC	EXHAUST AIR CONTROLLER
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EJ	EXPANSION JOINT
EL	ELEVATION
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
ET	ELEPHANT TRUNK
EXF	EXFILTRATION
EWT	ENTERING WATER TEMPERATURE
ECHWS	EQUIPMENT CHILLED WATER SUPPLY
ECHWR	EQUIPMENT CHILLED WATER RETURN
EXH	EXHAUST
°F	DEGREE FAHRENHEIT
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FCU	FAN COIL UNIT
F.D.	FLOOR DRAIN
FD	FIRE DAMPER WITH ACCESS DOOR
FF	FINISHED FLOOR
FH	FUME HOOD
FHE	FUME HOOD EXHAUST
F&T	FLOAT & THERMOSTATIC TRAP
FPM	FEET PER MINUTE
FTR	FINNED TUBE RADIATION
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRILLE
GRV	GRAVITY ROOF VENT
GHWS	GLYCOL HOT WATER SUPPLY
GHWR	GLYCOL HOT WATER RETURN
HC	HEATING COIL
HDPE	HIGH DENSITY POLYETHYLENE
HEPA	HIGH EFFICIENCY PARTICULATE AIR
HP	HORSEPOWER
HPA	HIGH PRESSURE AIR
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
HRS	HEAT RECOVERY SUPPLY
HRR	HEAT RECOVERY RETURN
HV	HAND VALVE
HWC	HOT WATER CONVERTER
HWFI	HOT WATER FOR INJECTION
HWS	HEATING HOT WATER SUPPLY
HWR	HEATING HOT WATER RETURN
HWRR	HOT WATER REVERSE RETURN
HX	HEAT EXCHANGER
IA	INSTRUMENT AIR
INF	INFILTRATION
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LBD	LINEAR BAR DIFFUSER
LBG	LINEAR BAR GRILLE
LFCU	LAB FAN COIL UNIT
LFD	LAMINAR AIRFLOW DIFFUSER
LFM	LAMINAR FLOW MODULE
LLD	LINEAR LOUVER DIFFUSER
LLG	LINEAR LOUVER GRILLE
LLVD	LOW LEAKAGE VOLUME DAMPER
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LSD	LINEAR SLOT DIFFUSER
LSG	LINEAR SLOT GRILLE
LVD	LINEAR VARIABLE VOLUME DIFFUSER
LVG	LINEAR VARIABLE VOLUME GRILLE
LWE	LOW WALL EXHAUST
LWT	LEAVING WATER TEMPERATURE
LF	LINEAR FEET
MBH	THOUSAND BTU'S PER HOUR
MD	MOTORIZED DAMPER
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MTHWS	MEDIUM TEMPERATURE HOT WATER SUPPLY
MTHWR	MEDIUM TEMPERATURE HOT WATER RETURN
(N)	NEW
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OBD	OPPOSED BLADE DAMPER
OF	OVER FLOW
PCHWR	PRIMARY CHILLED WATER RETURN
PCHWS	PRIMARY CHILLED WATER SUPPLY
PCR	PUMPED CONDENSATE RETURN
PFD	PERFORATED FACE DIFFUSER
PFG	PERFORATED FACE GRILLE
PHC	PREHEAT COIL
PI	PRESSURE INDICATOR
PPH	POUNDS PER HOUR
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
R	REFRIGERANT
RA	RETURN AIR
RD	ROOF DRAIN
RG	RETURN GRILLE
RFG	RECTANGULAR FILTER GRILLE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
S	STEAM
SA	SUPPLY AIR
SAC	SUPPLY AIR CONTROLLER
SAT	SOUND ATTENUATOR
SCHWR	SECONDARY CHILLED WATER RETURN
SCHWS	SECONDARY CHILLED WATER SUPPLY
SD	SMOKE DAMPER WITH ACCESS DOOR
SD/FD	COMBINATION SMOKE/FIRE DAMPER WITH ACCESS DOOR
SG	SUPPLY GRILLE
SP	STATIC PRESSURE
SR	SUPPLY REGISTER
SS	STAINLESS STEEL
STM	STEAM
SV	STEAM VENT
TCV	TWO WAY CONTROL VALVE
TDV	THERMAL DISPLACEMENT VENTILATOR
TG	TRANSFER GRILLE
TT	THERMOSTATIC TRAP
TOD	TOP OF DUCT
TOP	TOP OF PIPE
TYP	TYPICAL
TSP	TOTAL STATIC PRESSURE
UH	UNIT HEATER
V	VENT
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVES
VI	VIBRATION ISOLATOR
VMA	VARIABLE AIR VOLUME MODULAR ASSEMBLY
VVE	VARIABLE VOLUME EXHAUST
VVR	VARIABLE VOLUME RETURN
VVS	VARIABLE VOLUME SUPPLY
WB	WET BULB
WG	WATER GAUGE

GENERAL NOTES

1. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS ARE TO PROVIDE A COMPLETE HEATING, VENTILATION AND AIR CONDITIONING SYSTEM FOR THE PROPOSED PROJECT. THE SYSTEMS PROVIDED SHALL CONFORM TO THE DETAILS STATED IN THE SPECIFICATIONS AND SHOWN ON THE DRAWINGS. ITEMS OR WORK NOT SHOWN OR SPECIFIED, BUT REQUIRED FOR A COMPLETE HEATING, VENTILATION AND AIR CONDITIONING SYSTEM, SHALL BE PROVIDED AND SHALL CONFORM WITH ACCEPTED TRADE PRACTICES. ALL WORK SHALL CONFORM TO THE APPLICABLE CODES
2. THE DRAWINGS AND SPECIFICATIONS ARE PRESENTED TO DEFINE SPECIFIC SYSTEM REQUIREMENTS AND SERVE TO EXPAND ON THE PRIMARY CONTRACT REQUIREMENTS OF PROVIDING COMPLETE SYSTEMS. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE GENERAL ARRANGEMENT OF THE ITEMS COMPRISING THE SEVERAL SYSTEMS INCLUDED IN THE HEATING, VENTILATION AND AIR CONDITIONING WORK.
3. DO NOT SCALE THE DRAWINGS. BECAUSE OF THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, VALVES, OR SIMILAR ITEMS WHICH MAY BE REQUIRED TO MAKE A COMPLETE OPERATING SYSTEM. CAREFULLY INVESTIGATE CONDITIONS AFFECTING WORK AND INSTALL WORK IN SUCH A MANNER THAT INTERFERENCES BETWEEN PIPES, CONDUIT, DUCTS, EQUIPMENT, ARCHITECTURAL AND STRUCTURAL FEATURES SHALL BE AVOIDED. PROVIDE ITEMS THAT MAY BE REQUIRED TO MEET THE CONDITIONS AT THE BUILDING.
4. COORDINATE ALL WORK WITH WORK SHOWN ON DRAWINGS FOR OTHER TRADES. COORDINATE EXACT LOCATION OF DIFFUSERS, REGISTERS AND GRILLES WITH THE ARCHITECT'S REFLECTED CEILING PLANS AND ROOF PLANS.
5. CONTRACTOR TO ENSURE THAT ALL EQUIPMENT CLEARANCES, INCLUDING FILTER REPLACEMENTS AND COIL PULLS ARE DOCUMENTED AND COORDINATED WITH THE WORK OF OTHER TRADES AND EXISTING CONDITIONS TO PROVIDE THE REQUIREMENTS INDICATED BY EQUIPMENT MANUFACTURERS.
6. INDICATED DUCT DIMENSIONS ARE INTERIOR CLEAR DUCT DIMENSIONS AND AIRFLOW OPENINGS.
7. INDICATED DUCT RUNS ARE DIAGRAMMATIC. HVAC CONTRACTOR SHALL DETERMINE ALL REQUIRED OFFSETS AND DIRECTION CHANGES BEFORE FABRICATION AND INSTALLATION TO AVOID INTERFERENCES WITH OTHER TRADES.
8. INSTALL DUCTWORK SO THAT ALL DUCT ACCESSORIES AND ADJACENT DEVICES AND EQUIPMENT ARE ACCESSIBLE.
9. LOCATE ALL ROOM THERMOSTATS 43" (CENTERLINE) ABOVE FINISHED FLOOR ON THE HORIZONTAL CENTERLINE OF THE ROOM LIGHT SWITCH.
10. COORDINATE ALL ELECTRICAL DEVICES AND CONNECTIONS PRIOR TO RELEASE OF ANY MECHANICAL EQUIPMENT.
11. VERIFY EXACT LOCATION OF ALL THERMOSTATS WITH THE ENGINEER IN THE FIELD BEFORE ROUGH-IN OF THERMOSTATS.
12. VERIFY ALL EXISTING CONDITIONS. RELOCATE ANY EXISTING CONDITIONS REQUIRED TO INSTALL NEW WORK.
13. WHERE DUCTWORK AND PIPING PASS THROUGH FIRE-RATED PARTITIONS, CONTRACTOR SHALL MAINTAIN INTEGRITY OF THE FIRE-RATED PARTITIONS USING U.L. APPROVED SEALING METHODS.
14. EVERY HVAC SYSTEM SHUT-DOWN OR INTERRUPTION OF SERVICE SHALL BE COORDINATED AND SCHEDULED WITH THE OWNER A MINIMUM OF 7 DAYS IN ADVANCE. SYSTEM SHUT DOWNS / INTERRUPTIONS SHALL GENERALLY OCCUR AS OVERNIGHT OR WEEKEND SHUTDOWNS. ANY LONGER-TERM SHUTDOWNS SHALL BE COORDINATED WITH THE OWNER IN ADVANCE AND SHALL BE IDENTIFIED ON THE PROJECT SCHEDULE. PERIODS OF VARIABILITY OF SYSTEM PRESSURE AND/ OR FLOW SHALL BE CONSIDERED AN INTERRUPTION OF SERVICE AND SHALL OCCUR DURING AN OVERNIGHT OR WEEKEND SHUTDOWN.
15. EXISTING HVAC SYSTEMS SERVING OTHER AREAS OF THE BUILDING AND LOCATED WITHIN OR PASSING THROUGH CONSTRUCTION AREAS SHALL REMAIN IN SERVICE UNLESS SPECIFIED, INDICATED, OR NOTED OTHERWISE. PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO MAINTAIN SYSTEM SERVICE.
16. PHASING AND SEQUENCING OF DEMOLITION, TEMPORARY AND/OR PERMANENT CONNECTIONS, AND NEW WORK SHALL BE AT THE DIRECTION OF THE OWNER.

NEW YORK STATE CODE NOTES

ALL SYSTEMS AND EQUIPMENT SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FULL REQUIREMENTS OF THE FOLLOWING AND ALL OTHER APPLICABLE LOCAL AND STATE CODES:

- 2025 NEW YORK STATE BUILDING CODE
- 2025 NEW YORK STATE PLUMBING CODE
- 2025 NEW YORK STATE MECHANICAL CODE
- 2025 NEW YORK STATE FUEL GAS CODE
- 2025 NEW YORK STATE FIRE CODE
- 2025 NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE

TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THE PLANS AND SPECIFICATIONS BEARING MY RESPECTIVE PROFESSIONAL SEAL AND SIGNATURE ARE IN COMPLIANCE WITH THE ENERGY CODE.

MISC SYMBOL LIST

- OC — OCCUPANCY SENSOR
- T — THERMOSTAT OR TEMPERATURE SENSOR
- H — HUMIDISTAT OR HUMIDITY SENSOR
- S — ELECTRIC ON/OFF THERMALLY PROTECTED SWITCH WITH PILOT LIGHT
- LD — SPOT TYPE LIQUID DETECTOR
- SD — DUCT MOUNTED SMOKE DETECTOR
- SO — EMERGENCY SHUTOFF BUTTON
- CO2 — CARBON DIOXIDE DETECTOR
- POINT OF DISCONNECTION
- POINT OF CONNECTION
- # — DEMOLITION KEYED NOTE
- # — NEW WORK KEYED NOTE
- THERMOSTAT / SENSOR WIRING FROM SENSING DEVICE TO CONTROLLED DEVICE

AIR DEVICE TAG

E: EXHAUST
R: RETURN
S: SUPPLY
G: GRILLE
D: DIFFUSER

X# — TAG NUMBER
— NECK OR GRILLE SIZE (INCHES)
— AIRFLOW (CFM)

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STATE OF NEW YORK · DAWN ALICE DINSAY · 104701 · LICENSED PROFESSIONAL ENGINEER

2026/10/19

Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

MECHANICAL LEAD SHEET

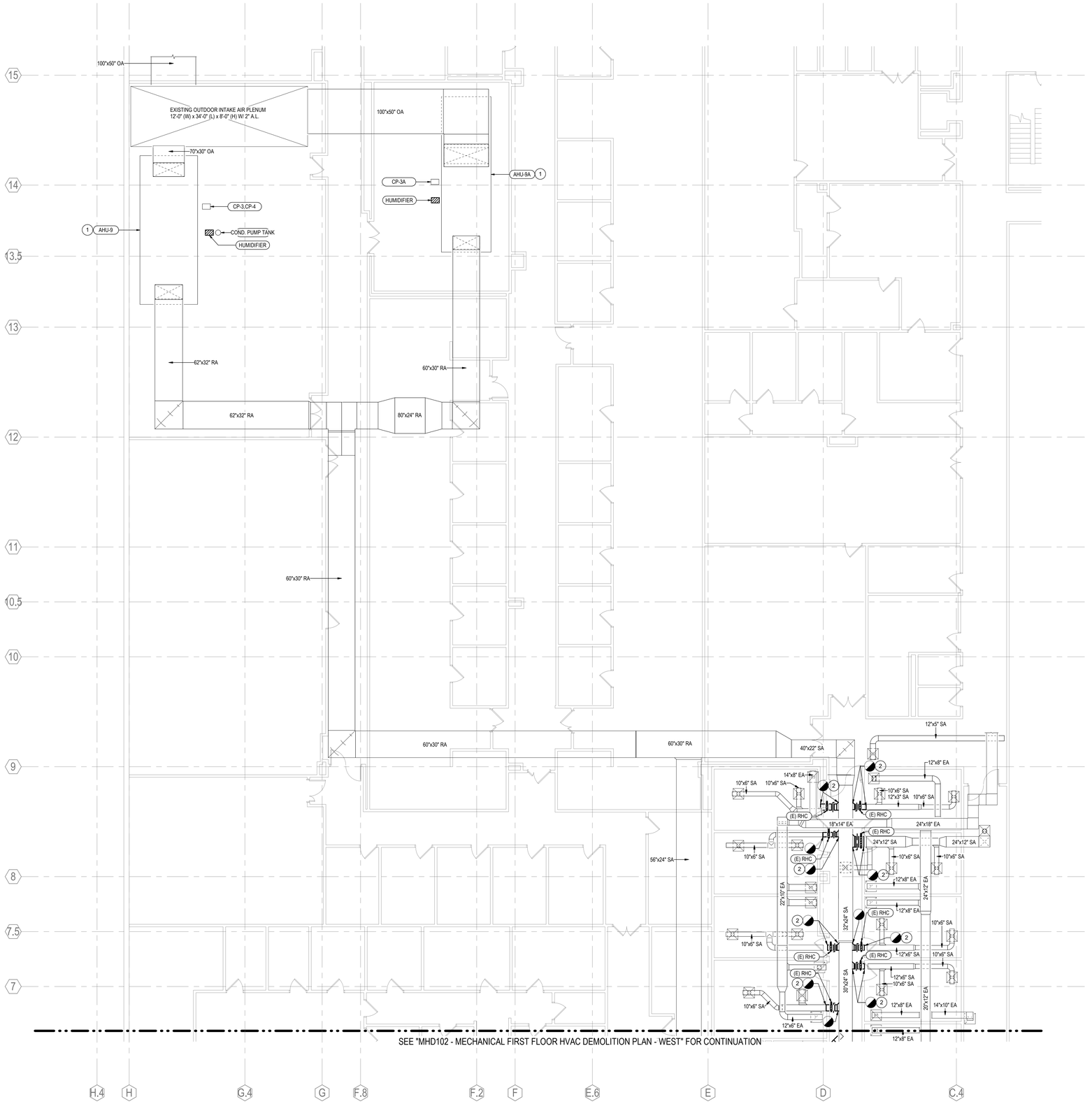
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Revision:**0**

Drawing No. **M000**

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ORIGINAL SHEET - ARCH E1



1 MHD101 **MECHANICAL FIRST FLOOR HVAC DEMOLITION PLAN - EAST**

1/8" = 1'-0"

GENERAL NOTES

A. ALL UTILITY SHUTDOWNS REQUIRED TO CONDUCT CONSTRUCTION WORK WHICH IMPACTS LOCATIONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS. COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 7 DAYS IN ADVANCE.

B. PROVIDE FIRESTOP SEALING AT ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. REFER TO LIFE SAFETY PLAN FOR FIRE RATED ASSEMBLY LOCATIONS.

C. CONTRACTOR SHALL BALANCE ALL BRANCH LINE CONNECTIONS AND TERMINAL UNITS ASSOCIATED WITH AIR HANDLING UNITS AND EXHAUST FANS TO MATCH PRECONSTRUCTION BALANCING VALUES.

D. REBALANCE WORK SHALL DOCUMENT SUPPLY AIR AND EXHAUST AIR FLOWS INTO AND OUT OF SPACES SERVED BY EXISTING AIR HANDLING UNITS AND EXHAUST FANS AFFECTED BY THIS SCOPE OF WORK. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEYNOTES

1. EXISTING AIR HANDLER TO BE REFURBISHED AND REMAIN IN PLACE FOR REUSE. AIR HANDLER REFURBISHMENT SCOPE INCLUDES:
   A. PRE-BALANCE OF EXISTING SYSTEMS
   B. REFURBISH AIR HANDLER INTERIOR – INSTALL EPOXY, FIRE BARRIER, AND WATER-PROOF POLYMERIC TOPCOAT (AQUIS OR SIMILAR).
   C. RESTORE INTERIOR STRUCTURE, SEAL AND PROTECT STEEL.
   D. COIL CLEANING – STEAM PREHEAT COIL AND CHILLED WATER COOLING COIL PLUS COIL TUBE INTERIORS – MECHANICAL CLEANING PLUS ENZYME-CONTAINING BIOSURFACTANTS COIL RESTORATION PROCESS (AQUIS OR SIMILAR).
   E. REPLACE AHU FILTERS.
   F. REPLACE CONDENSATE TRAPS AND PRIME.
   G. REPAIR OR REPLACE STEAM SYSTEM TRAPS, STRAINERS, MANUAL VALVES, CONTROL VALVES.
   H. REPAIR OR REPLACE CHILLED WATER SYSTEM STRAINERS, MANUAL VALVES, CONTROL VALVES.
   I. REPLACE FAN BELTS AND SHEAVES.
   J. CHECK VFD FOR PROPER OPERATION – CLEAN HOUSING AND TIGHTEN CONNECTIONS AS NEEDED. REPAIR OR REPLACE AS REQUIRED.
   K. CLEAN AND TIGHTEN ELECTRICAL CONNECTIONS.
   L. CLEAN FAN BLADES AND FAN HOUSING, REPAIR IF NEEDED.
   M. CHECK INTEGRITY OF PANELS ON EQUIPMENT – REPAIR OR REPLACE AS NEEDED.
   N. LUBRICATE ALL FIELD-SERVICEABLE BEARINGS.
   O. CHECK DAMPER CONDITION, SETTING AND OPERATION – LUBRICATE, REPAIR OR REPLACE AS NEEDED.
   P. TEMPORARY SYSTEM BALANCE TO ENABLE CONTINUOUS AIR SUPPLY TO AQUATICS WING DURING AHU RESTORATION AND CONSTRUCTION
   Q. RE-BALANCE SYSTEM FOLLOWING STARTUP TO ALIGN WITH NEW SYSTEM REQUIREMENTS.
   R. MODIFY AHU CONTROLS AS REQUIRED TO ACCOMMODATE NEEDS OF NEW AND EXISTING AREAS SERVED.
2. DISCONNECT DUCTWORK AT POINTS INDICATED TO ENABLE INSTALLATION OF VAVS. AQUATICS VIVARIUM TO REMAIN OPERATIONAL DURING RENOVATIONS. DEMOLITION AND CONSTRUCTION WORK TO BE COORDINATED WITH CORNELL FACILITIES AND LAB USERS. MEANS OF TEMPORARY VENTILATION TEMPERATURE CONTROL MAY BE REQUIRED DURING CONSTRUCTION WORK.

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2026/10/19

Key Plan:

Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

MECHANICAL FIRST FLOOR HVAC DEMOLITION PLAN - E

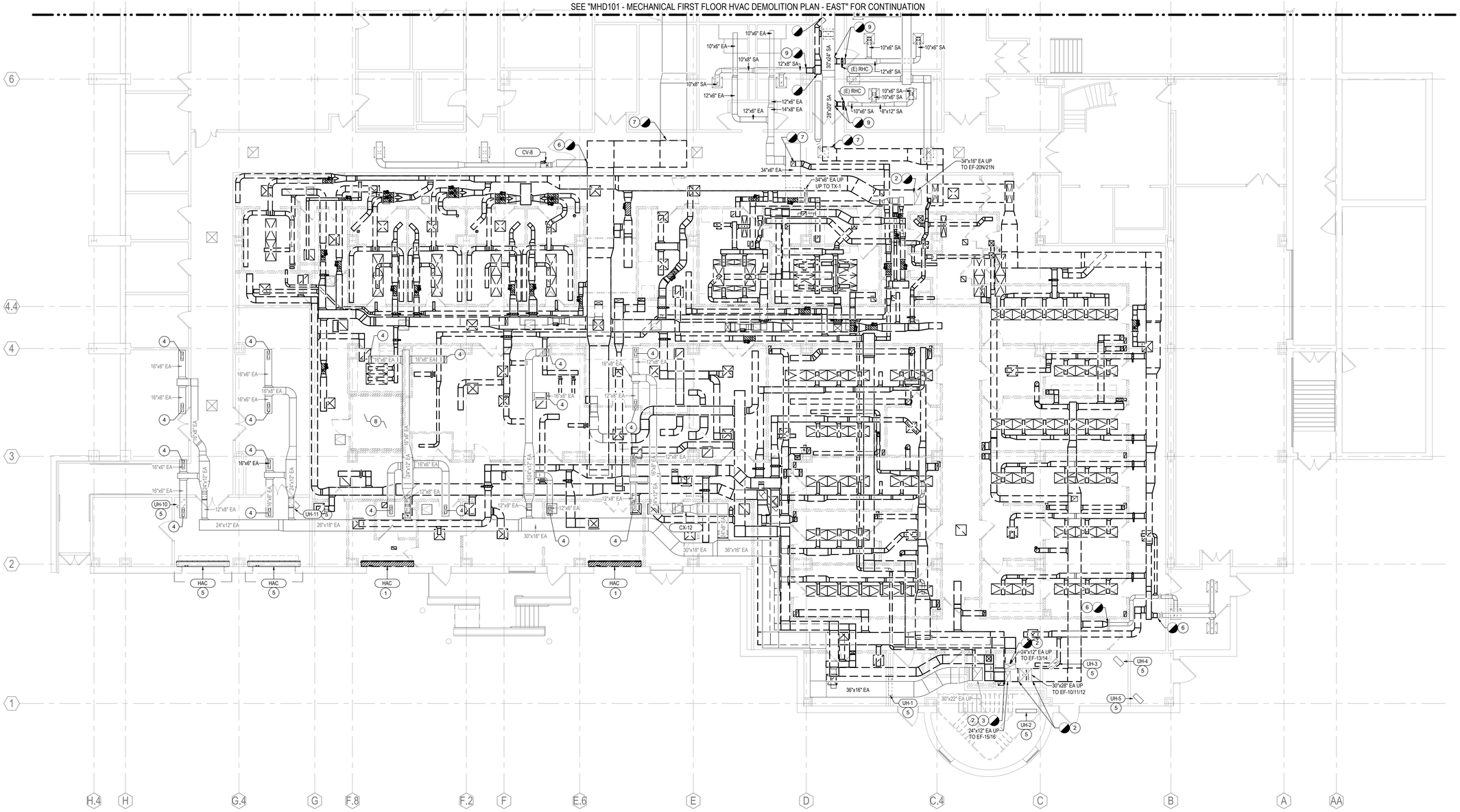
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Revision:**0**

Drawing No. **MHD101**

ORIGINAL SHEET - ARCH E1

SEE "MHD101 - MECHANICAL FIRST FLOOR HVAC DEMOLITION PLAN - EAST" FOR CONTINUATION



1 MHD102 MECHANICAL FIRST FLOOR HVAC DEMOLITION PLAN - WEST

1/8" = 1'-0"

KEYNOTES

1. REMOVE EXISTING AIR CURTAIN.
2. DISCONNECT EXHAUST DUCT WORK FROM EXISTING RISER. EXHAUST RISERS TO BE REUSED IN NEXT PHASE.
3. CLEAN AND STERILIZE EXHAUST RISER SERVING EXISTING CAGE WASH AREA. EXHAUST RISER TO BE REUSED IN NEXT PHASE.
4. EXHAUST DUCT UP TO SECOND FLOOR SPACE SEPARATE FROM SWING SPACE LAB SUITE. EXISTING TO REMAIN. DUCT SYSTEM RUNS THROUGH AREA OF WORK BUT DOES NOT EXHAUST ANY AIR FROM RENOVATED SPACES IN SCOPE OF WORK. DUCT SHOWN FOR COORDINATION PURPOSES ONLY.
5. EQUIPMENT EXISTING TO REMAIN.
6. DISCONNECT DUCTWORK TO POINT INDICATED AND TEMPORARILY CAP. DUCTWORK SERVING OUT OF SCOPE AREA TO BE RECONNECTED IN NEW CONSTRUCTION PHASE.
7. DISCONNECT DUCTWORK AT POINT INDICATED AND TEMPORARILY CAP. AQUATICS VIVARIUM MUST REMAIN OPERATIONAL DURING RENOVATIONS.
8. REMOVE EXISTING COLD ROOM. REFRIGERANT RECOVERY AND DISPOSAL TO COMPLY WITH CORNELL UNIVERSITY EHS GUIDELINES.
9. DISCONNECT DUCTWORK AT POINTS INDICATED TO ENABLE INSTALLATION OF VAVS. AQUATICS VIVARIUM TO REMAIN OPERATIONAL DURING RENNOVATIONS. DEMOLITION AND CONSTRUCTION WORK TO BE COORDINATED WITH CORNELL FACILITIES AND LAB USERS. MEANS OF TEMPORARY VENTILATION TEMPERATURE CONTROL MAY BE REQUIRED DURING CONSTRUCTION WORK.

GENERAL NOTES

A. REFER TO ABATEMENT PLAN AND COORDINATE SHUTDOWN OF SERVICES PRIOR TO ABATEMENT ACTIVITIES BEING CONDUCTED.

B. ALL UTILITY SHUTDOWNS REQUIRED TO CONDUCT DEMOLITION WORK WHICH IMPACTS LOCATIONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS. COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 7 DAYS IN ADVANCE.

C. COORDINATE WITH GC TO PATCH, PAINT, AND REPAIR ALL OPENINGS REMAINING AFTER DEMOLITION OF MATERIALS.

D. CAP DUCTWORK AND PIPING AT POINTS OF DISCONNECTION.

E. CONTRACTOR TO COORDINATE WITH CORNELL FACILITIES TO DECOMMISSION ALL CONTROLS ASSOCIATED WITH AREA OF WORK PRIOR DEMOLITION ACTIVITIES.

F. PREBALANCE WORK SHALL DOCUMENT SUPPLY AIR AND EXHAUST AIR FLOWS INTO AND OUT OF SPACES SERVED BY EXISTING AIR HANDLING UNITS AND EXHAUST FANS AFFECTED BY THIS SCOPE OF WORK. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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2026/10/19

Key Plan:

Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

MECHANICAL FIRST FLOOR HVAC DEMOLITION PLAN - W

Scale: As indicated

Revision: **0**

Drawing No. **MHD102**

•Pick location in Project Information
7/4/2026 4:30:07 PM

ORIGINAL SHEET - ARCH E1



1 MPD101 **MECHANICAL FIRST FLOOR PIPING DEMOLITION PLAN - EAST**

1/8" = 1'-0"

GENERAL NOTES

A. ALL UTILITY SHUTDOWNS REQUIRED TO CONDUCT CONSTRUCTION WORK WHICH IMPACTS LOCATIONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 10 DAYS IN ADVANCE.

B. PROVIDE FIRESTOP SEALING AT ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. REFER TO LIFE SAFETY PLAN FOR FIRE RATED ASSEMBLY LOCATIONS.

C. INSULATE ALL PIPING, FITTINGS, VALVES AND SPECIALTIES.

D. CONTRACTOR SHALL BALANCE ALL BRANCH AND TERMINAL UNIT VALVES ASSOCIATED WITH AIR HANDLING UNITS AND EXHAUST FANS TO MATCH PRECONSTRUCTION BALANCING VALUES.

E. ALL BRANCH PIPING CONNECTIONS SHALL BE MADE AT THE TOP OF THE MAIN.

F. THE FOLLOWING DEVICES OR COMPONENTS ARE NOT ALLOWED TO BE INSTALLED:
   a. DIELECTRIC UNIONS
   b. AUTOMATIC FLOW CONTROL VALVES
   c. COMBINATION DEVICES AND PREPIPED MANUFACTURER COIL FIT-UP KITS.
   d. TRIPLE DUTY VALVES

G. ALL FITTINGS WITH HOSE CONNECTIONS SHALL BE PROVIDED WITH VACUUM BREAKERS.

KEYNOTES

1. EXISTING AIR HANDLER TO BE REFURBISHED AND REMAIN IN PLACE FOR REUSE. AIR HANDLER REFURBISHMENT SCOPE INCLUDES:
   A. PRE-BALANCE OF EXISTING SYSTEMS
   B. REFURBISH AIR HANDLER INTERIOR – INSTALL EPOXY, FIRE BARRIER, AND WATER-PROOF POLYMERIC TOPCOAT (AQUIS OR SIMILAR).
   C. RESTORE INTERIOR STRUCTURE, SEAL AND PROTECT STEEL.
   D. COIL CLEANING – STEAM PREHEAT COIL AND CHILLED WATER COOLING COIL PLUS COIL TUBE INTERIORS – MECHANICAL CLEANING PLUS ENZYME-CONTAINING BIOSURFACTANTS COIL RESTORATION PROCESS (AQUIS OR SIMILAR).
   E. REPLACE AHU FILTERS.
   F. REPLACE CONDENSATE TRAPS AND PRIME.
   G. REPAIR OR REPLACE STEAM SYSTEM TRAPS, STRAINERS, MANUAL VALVES, CONTROL VALVES.
   H. REPAIR OR REPLACE CHILLED WATER SYSTEM STRAINERS, MANUAL VALVES, CONTROL VALVES.
   I. REPLACE FAN BELTS AND SHEAVES.
   J. CHECK VFD FOR PROPER OPERATION – CLEAN HOUSING AND TIGHTEN CONNECTIONS AS NEEDED. REPAIR OR REPLACE AS REQUIRED.
   K. CLEAN AND TIGHTEN ELECTRICAL CONNECTIONS.
   L. CLEAN FAN BLADES AND FAN HOUSING, REPAIR IF NEEDED.
   M. CHECK INTEGRITY OF PANELS ON EQUIPMENT – REPAIR OR REPLACE AS NEEDED.
   N. LUBRICATE ALL FIELD-SERVICEABLE BEARINGS.
   O. CHECK DAMPER CONDITION, SETTING AND OPERATION – LUBRICATE, REPAIR OR REPLACE AS NEEDED.
   P. TEMPORARY SYSTEM BALANCE TO ENABLE CONTINUOUS AIR SUPPLY TO AQUATICS WING DURING AHU RESTORATION AND CONSTRUCTION
   Q. RE-BALANCE SYSTEM FOLLOWING STARTUP TO ALIGN WITH NEW SYSTEM REQUIREMENTS.
   R. MODIFY AHU CONTROLS AS REQUIRED TO ACCOMMODATE NEEDS OF NEW AND EXISTING AREAS SERVED.
2. REMOVE HUMIDIFIER SERVING AIR HANDLING UNIT. DISCONNECT STEAM AND CONDENSATE PIPING BACK TO NEAREST MAIN, VALVE AND CAP. RETAIN STEAM AND CONDENSATE PIPING NOT SERVING AIR HANDLING UNITS. EXISTING CONDENSATE PUMPS AND CONDENSATE PUMP COLLECTION TANK TO REMAIN. CONTRACTOR TO VERIFY ROUTING IN FIELD PRIOR TO START OF WORK.
3. DISCONNECT HWS AND HWR PIPING AT POINTS INDICATED AND TEMPORARILY CAP. REMOVE EXISTING REHEAT COIL AND RETAIN FOR REINSTALLATION. AQUATICS VIVARIUM TO REMAIN OPERATIONAL DURING RENOVATIONS. DEMOLITION AND CONSTRUCTION WORK TO BE COORDINATED WITH CORNELL FACILITIES AND LAB USERS. MEANS OF TEMPORARY TEMPERATURE CONTROL MAY BE REQUIRED DURING CONSTRUCTION WORK.

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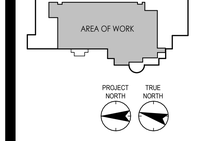
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2026/10/19

Key Plan:



Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

MECHANICAL FIRST FLOOR PIPING DEMOLITION PLAN - E

Scale: As indicated

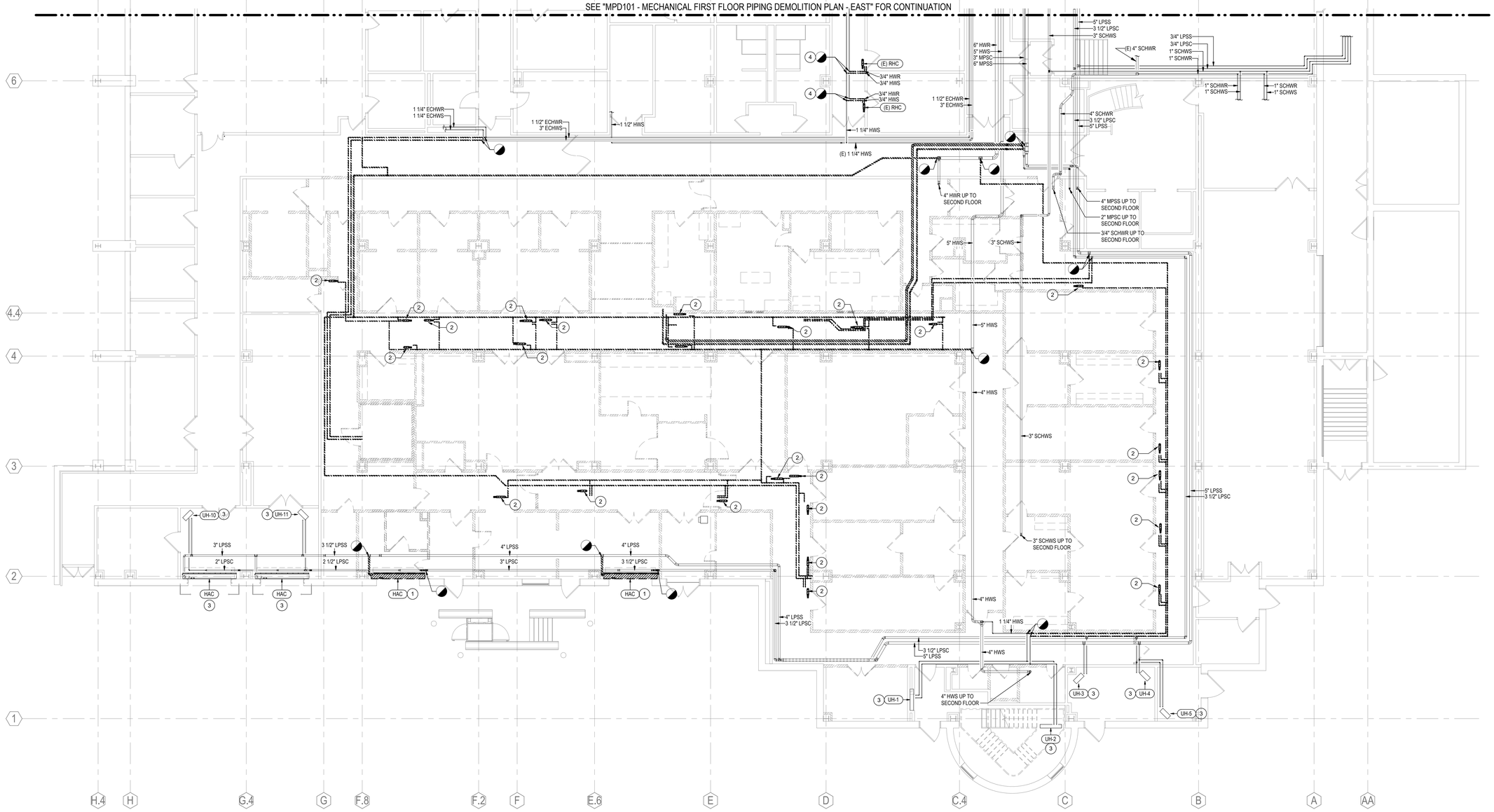
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Drawing No. **MPD101**

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ORIGINAL SHEET - ARCH E1

SEE "MPD101 - MECHANICAL FIRST FLOOR PIPING DEMOLITION PLAN - EAST" FOR CONTINUATION



1 MECHANICAL FIRST FLOOR PIPING DEMOLITION PLAN - WEST

1/MPD102 1/8" = 1'-0"

KEYNOTES

1. REMOVE INDICATED AIR CURTIAN. DISCONNECT LOW PRESSURE STEAM AND LOW PRESSURE CONDENSATE PIPING FROM UNIT, REMOVE PIPING BACK TO MAIN, VALVE AND CAP. LEAVE NO LOW POINTS IN WHICH CONDENSATE CAN COLLECT.
2. REMOVE INDICATED REHEAT COIL.
3. EQUIPMENT EXISTING TO REMAIN.
4. DISCONNECT HHWS AND HHWR PIPING AT POINTS INDICATED AND TEMPORARILY CAP. REMOVE EXISTING REHEAT COIL AND RETAIN FOR REINTALLATION. AQUATICS VIVARIUM TO REMAIN OPERATIONAL DURING RENNOVATIONS. DEMOLITION AND CONSTRUCTION WORK TO BE COORDINATED WITH CORNELL FACILITIES AND LAB USERS. MEANS OF TEMPORARY TEMPERATURE CONTROL MAY BE REQUIRED DURING CONSTRUCTION WORK.

GENERAL NOTES

A. REFER TO ABATEMENT PLAN AND COORDINATE SHUTDOWN OF SERVICES PRIOR TO ABATEMENT ACTIVITIES BEING CONDUCTED.

B. ALL UTILITY SHUTDOWNS REQUIRED TO CONDUCT DEMOLITION WORK WHICH IMPACTS LOCATIONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS. COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 7 DAYS IN ADVANCE.

C. COORDINATE WITH GC TO PATCH, PAINT, AND REPAIR ALL OPENINGS REMAINING AFTER DEMOLITION OF MATERIALS.

D. CAP DUCTWORK AND PIPING AT POINTS OF DISCONNECTION.

E. CONTRACTOR TO COORDINATE WITH CORNELL FACILITIES TO DECOMMISSION ALL CONTROLS ASSOCIATED WITH AREA OF WORK PRIOR DEMOLITION ACTIVITIES.

F. PREBALANCE WORK SHALL DOCUMENT SUPPLY AIR AND EXHAUST AIR FLOW INTO AND OUT OF SPACES SERVED BY EXISTING AIR HANDLING UNITS AND EXHAUST FANS AFFECTED BY THIS SCOPE OF WORK. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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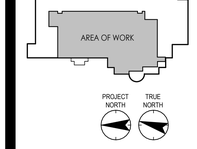
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Issued/Revision		YYYY.MM.DD

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2026/10/19

Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

MECHANICAL FIRST FLOOR PIPING DEMOLITION PLAN - W

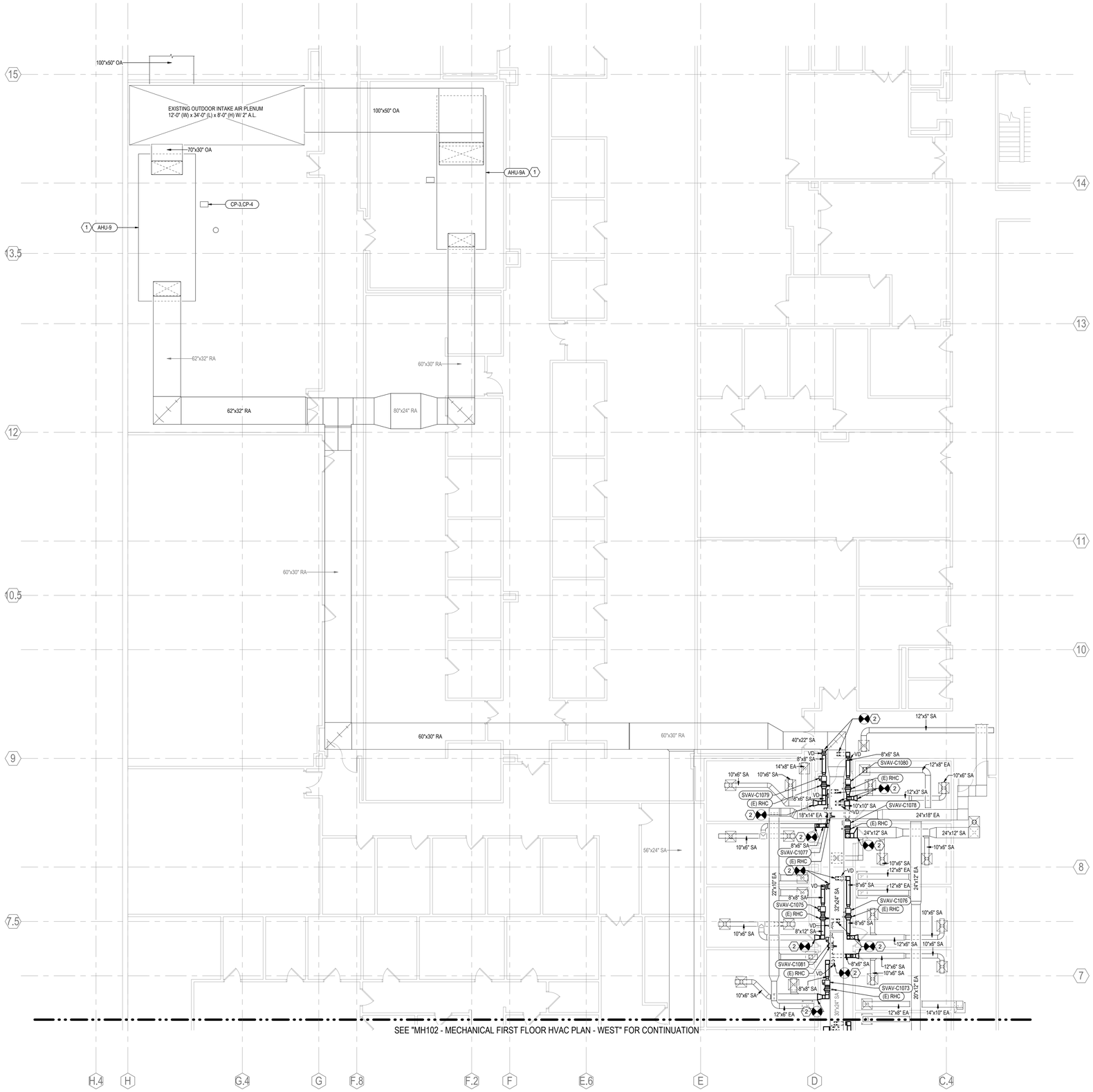
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Revision: **0**

Drawing No. **MPD102**

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ORIGINAL SHEET - ARCH E1



1 MH101 **MECHANICAL FIRST FLOOR HVAC PLAN - EAST**

1/8" = 1'-0"

GENERAL NOTES

A. ALL UTILITY SHUTDOWNS REQUIRED TO CONDUCT CONSTRUCTION WORK WHICH IMPACTS LOCATIONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS. COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 7 DAYS IN ADVANCE.

B. AIR HANDLERS ARE N+1 ARRANGEMENT. AIR HANDLER REFURBISHMENT SHALL HAPPEN IN SEQUENCE, WITH ONE AIR HANDLER RUNNING WHILE THE OTHER IS REFURBISHED. AQUATICS VIVARIUM SERVICE SHALL REMAIN AVAILABLE THROUGHOUT. FOR TEMPORARY SHUTDOWNS TO ENABLE AQUATICS VIVARIUM VAV INSTALLATION, AND IF REQUIRED, DUCT SEALING, COORDINATE SHUTDOWN WITH OWNER AND SPACE OCCUPANT TO CONFIRM AN APPROPRIATE TIMEFRAME FOR THE WORK. AIRFLOW TO AQUATICS VIVARIUM DURING CONSTRUCTION SHALL BE BALANCED TO MATCH AIRFLOWS MEASURED DURING PREBALANCE ACTIVITIES.

C. PROVIDE FIRESTOP SEALING AT ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. REFER TO LIFE SAFETY PLAN FOR FIRE RATED ASSEMBLY LOCATIONS.

D. CONTRACTOR SHALL BALANCE ALL BRANCH LINE CONNECTIONS AND TERMINAL UNITS ASSOCIATED WITH AIR HANDLING UNITS AND EXHAUST FANS TO MATCH PRECONSTRUCTION BALANCING VALUES.

E. REBALANCE WORK SHALL DOCUMENT SUPPLY AIR AND EXHAUST AIR FLOWS INTO AND OUT OF SPACES SERVED BY EXISTING AIR HANDLING UNITS AND EXHAUST FANS AFFECTED BY THIS SCOPE OF WORK. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEYNOTES

1. EXISTING AIR HANDLER TO BE REFURBISHED AND REMAIN IN PLACE FOR REUSE. SEE SPECIFICATION 237313 FOR ADDITIONAL INFORMATION. AIR HANDLER REFURBISHMENT SCOPE INCLUDES:
   - A. PREBALANCING, PRELEAKAGE TESTING, AND REFURBISHMENT PLANS AND MATERIALS SHALL BE SUBMITTED TO OWNER AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO START OF ANY WORK. SYSTEM SHUTDOWNS AND TEMPORARY SERVICE PLANS SHALL BE COORDINATED WITH OWNER.
   - B. PRE-BALANCE OF EXISTING SYSTEMS - SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
   - C. PERFORM PRECONSTRUCTION LEAKAGE TESTING OF SUPPLY AIR DUCTWORK OF AHU-9 AND AHU-9A PER SPECIFICATIONS. IF LEAKAGE RATE IS ABOVE SPECIFIED, PERFORM DUCT SEALING AS SPECIFIED TO ACHIEVE LEAKAGE RATE.
   - D. CLEAN AND PAINT STRUCTURAL BASE RAILS SUPPORTING THE EQUIPMENT.
   - E. REFURBISH AIR HANDLER INTERIOR:
     - a. REMOVE COATINGS AND DEBRIS. CLEAN AND DRY AIR HANDLER.
     - b. REMOVE LOOSE CORROSION. REINFORCE CORRODED STEEL AND PATCH HOLES. RESTORE INTERIOR STRUCTURE, SEAL AND PROTECT STEEL.
     - c. APPLY EPOXY, SHAPE AND PITCH TO ENSURE APPROPRIATE SLOPING TO DRAIN.
     - d. APPLY FIRE BARRIER FOR NFPA 90A COMPLIANCE PER MANUFACTURER'S INSTRUCTIONS.
     - e. WATER-PROOF POLYMERIC ANTIMICROBIAL TOPCOAT (AQUIS OR SIMILAR). INSTALL PER MANUFACTURER'S INSTRUCTIONS.
   - F. COIL CLEANING – STEAM PREHEAT COIL AND CHILLED WATER COOLING COIL PLUS COIL TUBE INTERIORS – MECHANICAL CLEANING PLUS ENZYME-CONTAINING BIOSURFACTANTS COIL RESTORATION PROCESS (AQUIS OR SIMILAR).
   - G. REPLACE AHU FILTERS.
   - H. REPLACE CONDENSATE TRAPS AND PRIME.
   - I. REMOVE AIR HANDLER HUMIDIFIER. REMOVE STEAM SYSTEM TRAPS, STRAINERS, MANUAL VALVES, CONTROL VALVES. PATCH PIPE ENTRY AND EXIT POINTS TO AIR HANDLER.
   - J. REPAIR OR REPLACE CHILLED WATER SYSTEM STRAINERS, MANUAL VALVES, CONTROL VALVES.
   - K. REPLACE FAN BELTS AND SHEAVES.
   - L. CHECK VFD FOR PROPER OPERATION – CLEAN HOUSING AND TIGHTEN CONNECTIONS AS NEEDED. REPAIR OR REPLACE AS REQUIRED.
   - M. CLEAN AND TIGHTEN ELECTRICAL CONNECTIONS.
   - N. CLEAN FAN BLADES AND FAN HOUSING, REPAIR IF NEEDED.
   - O. CHECK INTEGRITY OF PANELS ON EQUIPMENT – REPAIR OR REPLACE AS NEEDED.
   - P. LUBRICATE ALL FIELD-SERVICEABLE BEARINGS.
   - Q. CHECK DAMPER CONDITION, SETTING AND OPERATION – LUBRICATE, REPAIR OR REPLACE AS NEEDED.
   - R. TEMPORARY SYSTEM BALANCE TO ENABLE CONTINUOUS AIR SUPPLY TO AQUATICS WING DURING AHU RESTORATION AND CONSTRUCTION.
   - S. RE-BALANCE SYSTEM FOLLOWING STARTUP TO ALIGN WITH NEW SYSTEM REQUIREMENTS.
   - T. MODIFY AHU CONTROLS AS REQUIRED TO ACCOMMODATE NEEDS OF NEW AND EXISTING AREAS SERVED. SEE CONTROLS DRAWINGS FOR ADDITIONAL INFORMATION.
2. CONNECT DUCT TO EXISTING DUCTWORK SERVING AQUATICS VIVARIUM AT POINT INDICATED. COORDINATE WORK WITH OWNER - SCHEDULING SENSITIVE TO RESEARCH AND VIVARIUM ACTIVITY. ALL WORK TO BE PERFORMED OUTSIDE ANIMAL HOUSING ROOMS.

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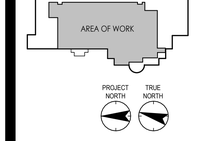
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Issued/Revision		YYYY.MM.DD

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2026/10/19

Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

MECHANICAL FIRST FLOOR HVAC PLAN - E

Scale: As indicated

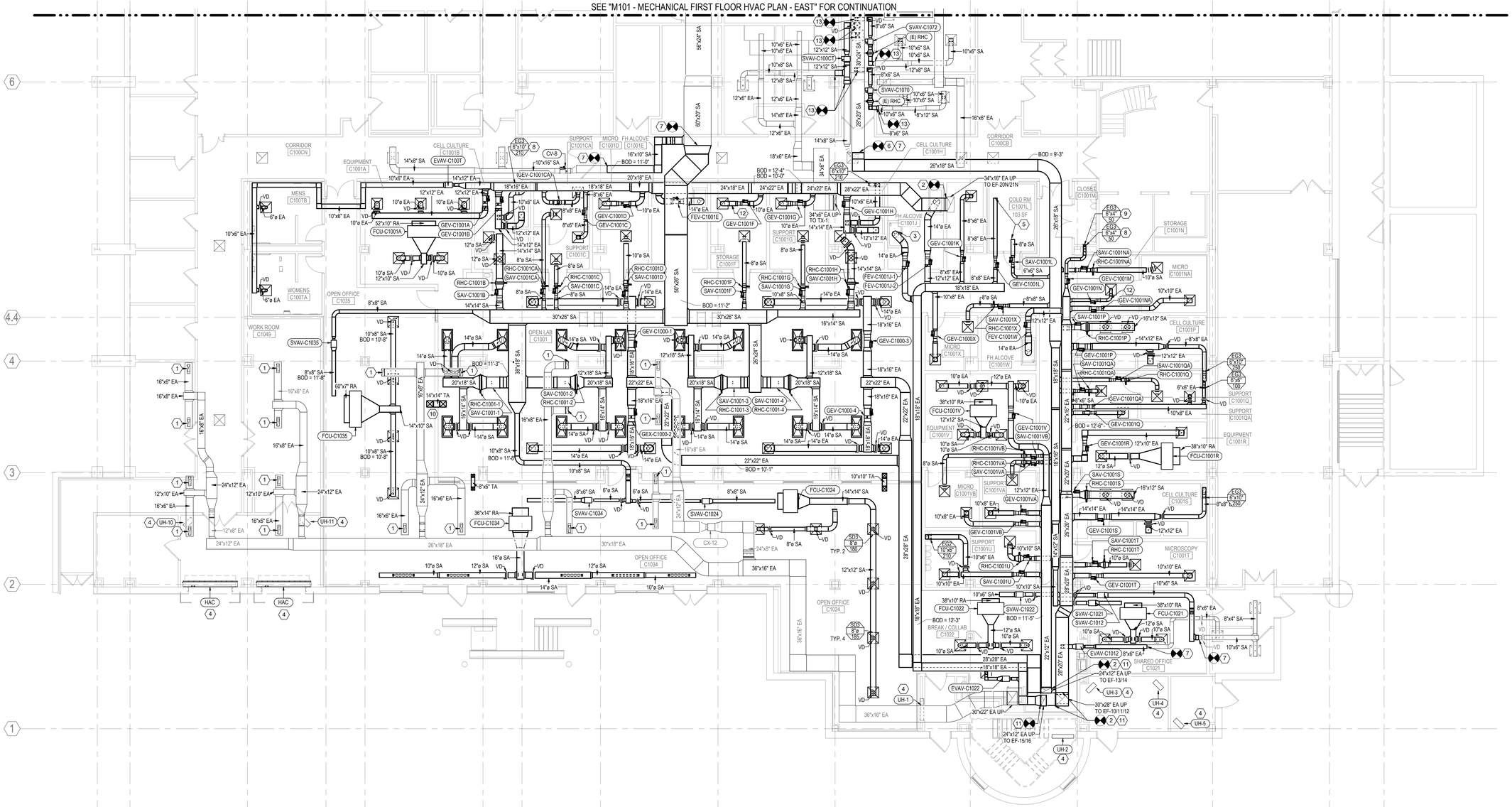
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Drawing No. **MH101**

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ORIGINAL SHEET - ARCH E1

SEE "M101 - MECHANICAL FIRST FLOOR HVAC PLAN - EAST" FOR CONTINUATION



1 MH102 **MECHANICAL FIRST FLOOR HVAC PLAN - WEST**
1/8" = 1'-0"

KEYNOTES

1. EXHAUST DUCT UP TO SECOND FLOOR SPACE SEPARATE FROM SWING SPACE LAB SUITE. EXISTING TO REMAIN.
2. CONNECT NEW EXHAUST DUCT TO EXISTING RISER.
3. PROVIDE FLEXIBLE CONNECTION AT ADJUSTABLE FUME HOOD. REFER TO SHEET M500 FOR FIT UP DETAIL.
4. EXISTING TO REMAIN EQUIPMENT.
5. CONNECT SUPPLY AND EXHAUST AIR TO COLD ROOM PER MANUFACTURER'S INSTRUCTIONS.
6. AQUATICS VIVARIUM MUST REMAIN OPERATIONAL DURING CONSTRUCTION.
7. CONNECT NEW DUCTWORK TO EXISTING AT POINT INDICATED.
8. MOUNT GRILLE CENTERED AT 6" ABOVE FINISHED FLOOR.
9. MOUNT GRILLED CENTERED AT 6" BELOW CEILING.
10. SEE SHEET M500 FOR TRANSFER DUCT DETAIL.
11. PROVIDE FIRE WRAPPING ON NEW DUCTWORK A MINIMUM OF 10' BEFORE PENETRATION THROUGH FIRE RATED CONSTRUCTION. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
12. PROVIDE WELDED CONNECTION FOR VACUUM PUMP TUBING ON EXHAUST DUCT. SEE MANUFACTURERS INSTALLATION INSTRUCTIONS FOR DETAILS.
13. CONNECT DUCT TO EXISTING DUCTWORK SERVING AQUATICS VIVARIUM AT POINT INDICATED. COORDINATE WORK WITH OWNER - SCHEDULING SENSITIVE TO RESEARCH AND VIVARIUM ACTIVITY. ALL WORK TO BE PERFORMED OUTSIDE ANIMAL HOUSING ROOMS.

GENERAL NOTES

A. ALL UTILITY SHUTDOWNS REQUIRED TO CONDUCT CONSTRUCTION WORK WHICH IMPACTS LOCATIONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 10 DAYS IN ADVANCE.

B. PROVIDE FIRESTOP SEALING AT ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. REFER TO LIFE SAFETY PLAN FOR FIRE RATED ASSEMBLY LOCATIONS.

C. INSULATE ALL DUCTWORK, FITTINGS, VALVES, DAMPERS, AND SPECIALTIES.

D. MOUNT AIR VALVES IN SPACE WITH CONTROLS FACING DOWN AND EQUIPMENT ACCESS REQUIREMENTS MET.

E. CONTRACTOR SHALL BALANCE ALL BRANCH LINE CONNECTIONS AND TERMINAL UNITS ASSOCIATED WITH AIR HANDLING UNITS AND EXHAUST FANS TO MATCH PRECONSTRUCTION BALANCING VALUES.

F. AT FUME HOOD COLLAR CONNECTION, INSTALL AN AIR TIGHT DRAWBAND CLAMP WITH A NEOPRENE GASKET.

G. REFER TO SHEET MH104 FOR DIFFUSER/GRILLE TAGS AND AIRFLOWS.

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2026/10/19

Key Plan:

Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

MECHANICAL FIRST FLOOR HVAC PLAN - W

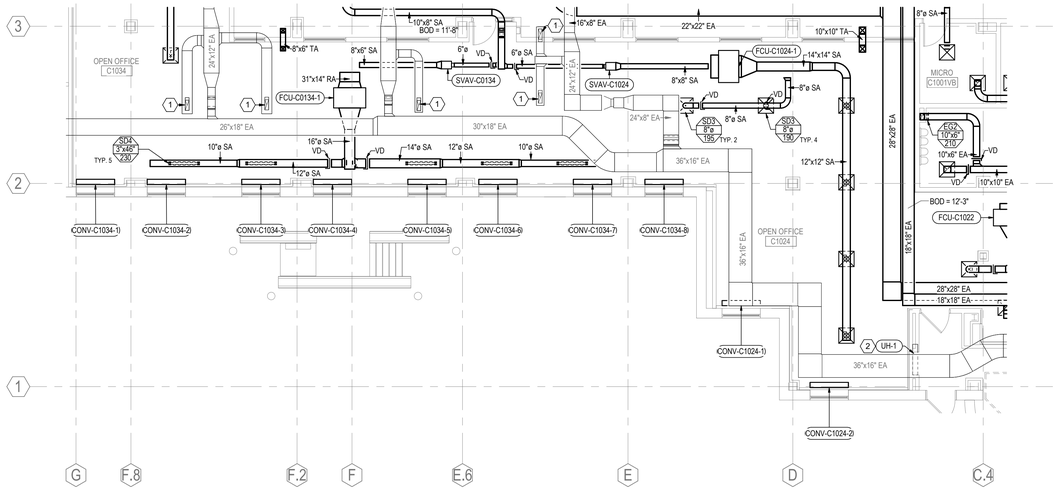
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Drawing No. **MH102**

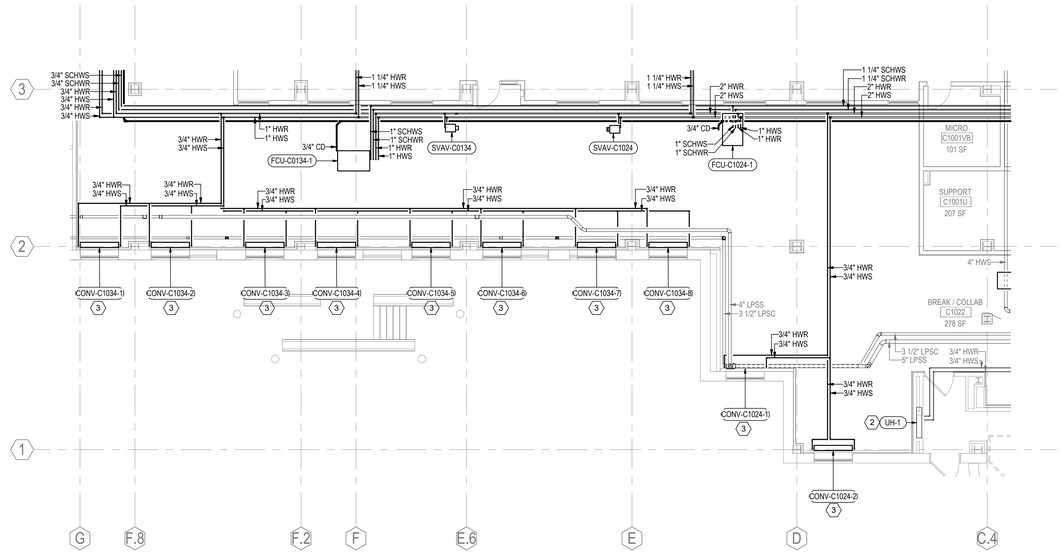
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ORIGINAL SHEET - ARCH E1



1 MECHANICAL FIRST FLOOR HVAC PLAN - ADD ALTERNATE #1

MH102A 1/8" = 1'-0"



2 MECHANICAL FIRST FLOOR PIPING PLAN - ADD ALTERNATE #1

MH102A 1/8" = 1'-0"

FAN COIL UNIT SCHEDULE - ADD ALTERNATE #1

TAG	ROOM(S) SERVED	AIRFLOW					HEATING COIL								COOLING COIL									PHYSICAL CHARACTERISTICS				ELECTRICAL					MANUFACTURER	MODEL NUMBER	NOTES
		DIRECT CONNECTED MAKEUP AIRFLOW	RETURN AIRFLOW	SUPPLY AIRFLOW TO SPACE FROM FCU	FAN COUNT	ESP	REQUIRED CAPACITY	SELECTION CAPACITY	EDB	LDB	FLOW	EWT	LWT	MAX WPD	REQUIRED SENSIBLE CAPACITY	TOTAL CAPACITY	SENSIBLE CAPACITY	EDB	EWB	LDB	LWB	FLOW	EWT	LWT	MAX WPD	WEIGHT	HEIGHT	LENGTH	WIDTH	MOTOR COUNT	HP (PER MOTOR)	VOLTS	FLA	PHASE			
		(CFM)	(CFM)	(CFM)		(IN-WG)	(MBH)	(MBH)	(F)	(F)	(GPM)	(F)	(F)	(FT)	(MBH)	(MBH)	(MBH)	(F)	(F)	(F)	(F)	(GPM)	(F)	(F)	(FT)	(LBS)	(IN)	(IN)	(IN)								
FCU-C1034-1	C1034 - OPEN OFFICE	175	975	1150	2	0.4	12.4	41.12	70	101.8	2.0	180	140	5	21.7	24.09	22.27	75	63	57.3	55.8	4.27	50	62	5	313	18	32	50	2	1/3	115	10	1	ENVIROTEC	HPE-D14	1 THROUGH 7
FCU-C1024-1	C1024 - OPEN OFFICE	255	895	1150	2	0.4	12.4	41.12	70	101.8	2.0	180	140	5	20.1	24.09	22.27	75	63	57.3	55.8	4.27	50	62	5	313	18	32	50	2	1/3	115	10	1	ENVIROTEC	HPE-D14	1 THROUGH 7

NOTES:
1. OFFICE FAN COIL UNITS: CAPACITY TO BE PROVIDED WITH A MAX SPEED OF MEDIUM.
2. FAN COIL UNITS TO HAVE FULLY MODULATING EC MOTORS.
3. PROVIDE WITH STAINLESS STEEL DRAIN PANS. WHERE GRAVITY DRAINED CONDENSATE CANNOT BE ACHIEVED, PROVIDE CONDENSATE PUMP.
4. PROVIDE WITH DRAIN PAN WATER-LEVEL DETECTION DEVICE CONFORMING TO UL 508 THAT WILL SHUT OFF FCU IN EVENT OF DRAIN BLOCKAGE.
5. PROVIDE WITH MANUFACTURER TOGGLE DISCONNECT SWITCH.
6. USE OF MANUFACTURER COIL KITS OR COMBINATION DEVICES IS NOT ALLOWED.
7. PROVIDE WITH 1" MERV 8 FILTER.

HOT WATER CONVECTOR SCHEDULE - ADD ALTERNATE #1

TAG	ROOM NUMBER SERVED	ROOM NAME SERVED	CAPACITY (BTU/H)	EDB (F)	HOT WATER COIL					PHYSICAL CHARACTERISTICS			MANUFACTURER	MODEL NUMBER	NOTES
					FLUID TYPE	FLOW (GPM)	EWT (F)	LWT (F)	MAX WPD (FT)	LENGTH (FT)	HEIGHT (IN)	DEPTH (IN)			
CONV-C1034-1	C1034	OPEN OFFICE	5,024	70	WATER	0.5	180	160	0.1	5	18	4	MODINE	SF046018B0L00NNNN0PR	1
CONV-C1034-2	C1034	OPEN OFFICE	5,024	70	WATER	0.5	180	160	0.1	5	18	4	MODINE	SF046018B0L00NNNN0PR	1
CONV-C1034-3	C1034	OPEN OFFICE	5,024	70	WATER	0.5	180	160	0.1	5	18	4	MODINE	SF046018B0L00NNNN0PR	1
CONV-C1034-4	C1034	OPEN OFFICE	5,024	70	WATER	0.5	180	160	0.1	5	18	4	MODINE	SF046018B0L00NNNN0PR	1
CONV-C1034-5	C1034	OPEN OFFICE	5,024	70	WATER	0.5	180	160	0.1	5	18	4	MODINE	SF046018B0L00NNNN0PR	1
CONV-C1034-6	C1034	OPEN OFFICE	5,024	70	WATER	0.5	180	160	0.1	5	18	4	MODINE	SF046018B0L00NNNN0PR	1
CONV-C1034-7	C1034	OPEN OFFICE	5,024	70	WATER	0.5	180	160	0.1	5	18	4	MODINE	SF046018B0L00NNNN0PR	1
CONV-C1034-8	C1034	OPEN OFFICE	5,024	70	WATER	0.5	180	160	0.1	5	18	4	MODINE	SF046018B0L00NNNN0PR	1
CONV-C1024-1	C1024	OPEN OFFICE	5,024	70	WATER	0.5	180	160	0.1	5	18	4	MODINE	SF046018B0L00NNNN0PR	1
CONV-C1024-2	C1024	OPEN OFFICE	5,024	70	WATER	0.5	180	160	0.1	5	18	4	MODINE	SF046018B0L00NNNN0PR	1

NOTES:
1. CORNELL STANDARDS FOR HOT WATER COILS:
ARRANGEMENT: AIR-WATER COUNTER FLOW; TUBING & BENDS: 5/8" OD, 0.035" COPPER; FIN SPACING: 10 FPI MAX; CASINGS AND FRAMES: 304 STAINLESS STEEL; HEADERS: NON-FERROUS; CONNECTIONS: NON-FERROUS. GROOVED CONNECTIONS ARE NOT ACCEPTABLE.

KEYNOTES

1. EXHAUST DUCT UP TO SECOND FLOOR SPACE SEPARATE FROM SWING SPACE LAB SUITE, EXISTING TO REMAIN.
2. EXISTING TO REMAIN EQUIPMENT.
3. VERTICAL PIPING DOWN TO CONVECTORS SHALL BE FULLY INSULATED AND ROUTED IN STUD WALL - COORDINATE CONSTRUCTION WITH GENERAL CONTRACTOR.

GENERAL NOTES

A. ALL UTILITY SHUTDOWNS REQUIRED TO CONDUCT CONSTRUCTION WORK WHICH IMPACTS LOCATIONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 10 DAYS IN ADVANCE.

B. PROVIDE FIRESTOP SEALING AT ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. REFER TO LIFE SAFETY PLAN FOR FIRE RATED ASSEMBLY LOCATIONS.

C. INSULATE ALL DUCTWORK, FITTINGS, VALVES, DAMPERS, AND SPECIALTIES.

D. MOUNT AIR VALVES IN SPACE WITH CONTROLS FACING DOWN AND EQUIPMENT ACCESS REQUIREMENTS MET.

E. CONTRACTOR SHALL BALANCE ALL BRANCH LINE CONNECTIONS AND TERMINAL UNITS ASSOCIATED WITH AIR HANDLING UNITS AND EXHAUST FANS TO MATCH PRECONSTRUCTION BALANCING VALUES.

F. AT FUME HOOD COLLAR CONNECTION, INSTALL AN AIR TIGHT DRAWBAND CLAMP WITH A NEOPRENE GASKET.

G. REFER TO SHEET MH104 FOR DIFFUSER/GRILLE TAGS AND AIRFLOWS.

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Consultant

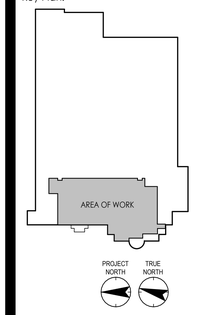
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Issued/Revision		YYYY.MM.DD

Permit/Seal



2026/10/19

Key Plan:



Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

MECHANICAL FIRST FLOOR HVAC PLAN - ADD ALTERNATE #1

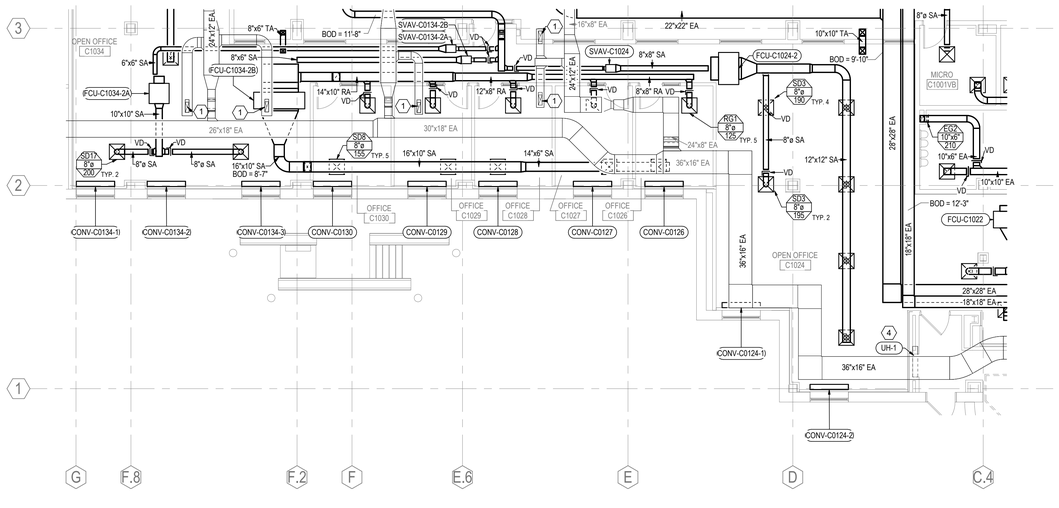
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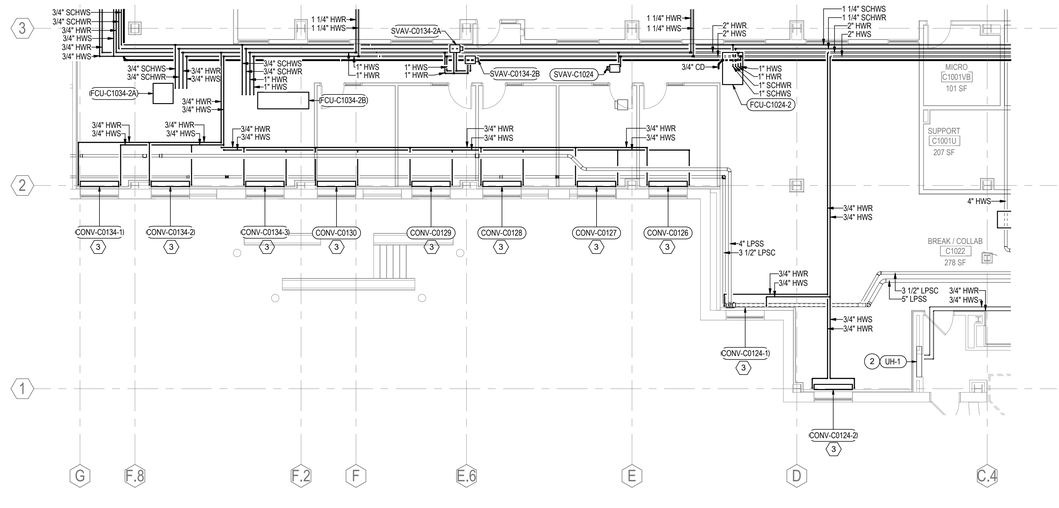
Revision:**0**

Drawing No. **MH102A**

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ORIGINAL SHEET - ARCH E1





1 MECHANICAL FIRST FLOOR HVAC PLAN - ADD ALTERNATE #2

MH102B 1/8" = 1'-0"

2 MECHANICAL FIRST FLOOR PIPING PLAN - ADD ALTERNATE #2

MH102B 1/8" = 1'-0"

FAN COIL UNIT SCHEDULE - ADD ALTERNATE #2

TAG	ROOM(S) SERVED	AIRFLOW					HEATING COIL								COOLING COIL										PHYSICAL CHARACTERISTICS				ELECTRICAL					MANUFACTURER	MODEL NUMBER	NOTES
		DIRECT CONNECTED MAKEUP AIRFLOW	RETURN AIRFLOW	SUPPLY AIRFLOW TO SPACE FROM FCU	FAN COUNT	ESP	REQUIRED CAPACITY	SELECTION CAPACITY	EDB	LDB	FLOW	EWT	LWT	MAX WPD	REQUIRED SENSIBLE CAPACITY	TOTAL CAPACITY	SENSIBLE CAPACITY	EDB	EWB	LDB	LWB	FLOW	EWT	LWT	MAX WPD	WEIGHT	HEIGHT	LENGTH	WIDTH	MOTOR COUNT	HP (PER MOTOR)	VOLTS	FLA	PHASE			
		(CFM)	(CFM)	(CFM)		(IN-WG)	(MBH)	(MBH)	(F)	(F)	(GPM)	(F)	(F)	(FT)	(MBH)	(MBH)	(MBH)	(F)	(F)	(F)	(F)	(GPM)	(F)	(F)	(FT)	(LBS)	(IN)	(IN)	(IN)								
FCU-C1034-2A	C1034 - OPEN OFFICE	100	300	400	2	0.4	4.6	20.8	70	117.4	1.0	180	140	5	8.4	9.6	8.37	75	63	55.9	54.7	1.8	50	62	5	130	11	26	51	1	1/4	120	2.9	1	ENVIROTEC	HLE-D06	1 THROUGH 7
FCU-C1034-2B	C1030 - OFFICE, C1029 - OFFICE, C1028 - OFFICE, C1027 - OFFICE, C1026 - OFFICE	150	625	775	4	0.4	7.7	39.8	70	116.8	2.0	180	140	5	15.7	17.6	15.7	75	63	56.5	55.2	3.0	50	62	5	222	11	26	80	2	1/4	120	5.8	1	ENVIROTEC	HLE-D12	1 THROUGH 7
FCU-C1024-2	C1024 - OPEN OFFICE	255	895	1150	2	0.4	12.4	41.12	70	101.8	2.1	180	140	5	20.1	24.1	22.3	75	63	57.3	55.8	4.3	50	62	5	313	18	32	50	2	1/3	115	10	1	ENVIROTEC	HPE-D14	1 THROUGH 7

NOTES:
1. OFFICE FAN COIL UNITS: CAPACITY TO BE PROVIDED WITH A MAX SPEED OF MEDIUM.
2. FAN COIL UNITS TO HAVE FULLY MODULATING EC MOTORS.
3. PROVIDE WITH STAINLESS STEEL DRAIN PANS. WHERE GRAVITY DRAINED CONDENSATE CANNOT BE ACHIEVED, PROVIDE CONDENSATE PUMP.
4. PROVIDE WITH DRAIN PAN WATER-LEVEL DETECTION DEVICE CONFORMING TO UL 508 THAT WILL SHUT OFF FCU IN EVENT OF DRAIN BLOCKAGE.
5. PROVIDE WITH MANUFACTURER TOGGLE DISCONNECT SWITCH.
6. USE OF MANUFACTURER COIL KITS OR COMBINATION DEVICES IS NOT ALLOWED.
7. PROVIDE WITH 1" MERV 8 FILTER.

VARIABLE AIR VOLUME BOX SCHEDULE - ADD ALTERNATE #2

UNIT IDENTIFICATION			SIZE	AIR FLOW				PRESSURE DROP	COIL			AIR			FLUID				HOUSING	MANUFACTURER	MODEL	NOTES
				OPERATING RANGE		DESIGN RANGE			TOTAL CAPACITY (MBH)	NUMBER OF ROWS	FIN TYPE	MAX HEATING AIRFLOW (CFM)	EDB (F)	LDB (F)	FLUID FLOW (GPM)	EWT (F)	LWT (F)	MAX WPD (FT)				
TAG	LOCATION	SERVES		MAX	MIN	MAX (OCC)	MIN (UNOCC)															
			(IN)	CFM	CFM	CFM	CFM	IN WC														
SVAV-C1034-2A	C1034 - OPEN OFFICE	SUPPLY AIR	6"	550	65	100	0	0.01	3.4	1	ALUMINUM FLAT	100	55	85	0.2	180	139.7	0.03	INSULATED GALVANIZED STEEL	PRICE	SDV	1
SVAV-C1034-2B	C1030 - OFFICE, C1029 - OFFICE, C1028 - OFFICE, C1027 - OFFICE, C1026 - OFFICE	SUPPLY AIR	6"	550	65	150	0	0.02	5.2	1	ALUMINUM FLAT	150	55	85	0.3	180	147.5	0.09	INSULATED GALVANIZED STEEL	PRICE	SDV	1

NOTES:
1. CORNELL STANDARDS FOR HOT WATER COILS:
ARRANGEMENT: AIR-WATER COUNTER FLOW; TUBING & BENDS: 5/8" OD, 0.035" COPPER; FIN SPACING: 10 FPI MAX; CASINGS AND FRAMES: 304 STAINLESS STEEL; HEADERS: NON-FERROUS; CONNECTIONS: NON-FERROUS. GROOVED CONNECTIONS ARE NOT ACCEPTABLE.

HOT WATER CONVECTOR SCHEDULE - ADD ALTERNATE #2

UNIT IDENTIFICATION			CAPACITY (BTU/H)	EDB (F)	HOT WATER COIL					PHYSICAL CHARACTERISTICS			MANUFACTURER	MODEL NUMBER	NOTES
TAG	ROOM NUMBER SERVED	ROOM NAME SERVED			FLUID TYPE	FLOW (GPM)	EWT (F)	LWT (F)	MAX WPD (FT)	LENGTH (FT)	HEIGHT (IN)	DEPTH (IN)			
CONV-C1034-1	C1034	OPEN OFFICE	5,024	70	WATER	0.5	180	160	0.1	5	18	4	MODINE	SF046018B0L00NNNN0PR	-
CONV-C1034-2	C1034	OPEN OFFICE	5,024	70	WATER	0.5	180	160	0.1	5	18	4	MODINE	SF046018B0L00NNNN0PR	-
CONV-C1034-3	C1034	OPEN OFFICE	5,024	70	WATER	0.5	180	160	0.1	5	18	4	MODINE	SF046018B0L00NNNN0PR	-
CONV-C1030	C1030	OFFICE	5,024	70	WATER	0.5	180	160	0.1	5	18	4	MODINE	SF046018B0L00NNNN0PR	-
CONV-C1029	C1029	OFFICE	5,024	70	WATER	0.5	180	160	0.1	5	18	4	MODINE	SF046018B0L00NNNN0PR	
CONV-C1028	C1028	OFFICE	5,024	70	WATER	0.5	180	160	0.1	5	18	4	MODINE	SF046018B0L00NNNN0PR	
CONV-C1027	C1027	OFFICE	5,024	70	WATER	0.5	180	160	0.1	5	18	4	MODINE	SF046018B0L00NNNN0PR	
CONV-C1026	C1026	OFFICE	5,024	70	WATER	0.5	180	160	0.1	5	18	4	MODINE	SF046018B0L00NNNN0PR	
CONV-C1024-1	C1024	OPEN OFFICE	5,024	70	WATER	0.5	180	160	0.1	5	18	4	MODINE	SF046018B0L00NNNN0PR	
CONV-C1024-2	C1024	OPEN OFFICE	5,024	70	WATER	0.5	180	160	0.1	5	18	4	MODINE	SF046018B0L00NNNN0PR	

NOTES:
1. CORNELL STANDARDS FOR HOT WATER COILS:
ARRANGEMENT: AIR-WATER COUNTER FLOW; TUBING & BENDS: 5/8" OD, 0.035" COPPER; FIN SPACING: 10 FPI MAX; CASINGS AND FRAMES: 304 STAINLESS STEEL; HEADERS: NON-FERROUS; CONNECTIONS: NON-FERROUS. GROOVED CONNECTIONS ARE NOT ACCEPTABLE.

KEYNOTES

1. EXHAUST DUCT UP TO SECOND FLOOR SPACE SEPARATE FROM SWING SPACE LAB SUITE, EXISTING TO REMAIN.
2. EXISTING TO REMAIN EQUIPMENT.
3. VERTICAL PIPING DOWN TO CONVECTORS SHALL BE FULLY INSULATED AND ROUTED IN STUD WALL - COORDINATE CONSTRUCTION WITH GENERAL CONTRACTOR.

GENERAL NOTES

A. ALL UTILITY SHUTDOWNS REQUIRED TO CONDUCT CONSTRUCTION WORK WHICH IMPACTS LOCATIONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 10 DAYS IN ADVANCE.

B. PROVIDE FIRESTOP SEALING AT ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. REFER TO LIFE SAFETY PLAN FOR FIRE RATED ASSEMBLY LOCATIONS.

C. INSULATE ALL DUCTWORK, FITTINGS, VALVES, DAMPERS, AND SPECIALTIES.

D. MOUNT AIR VALVES IN SPACE WITH CONTROLS FACING DOWN AND EQUIPMENT ACCESS REQUIREMENTS MET.

E. CONTRACTOR SHALL BALANCE ALL BRANCH LINE CONNECTIONS AND TERMINAL UNITS ASSOCIATED WITH AIR HANDLING UNITS AND EXHAUST FANS TO MATCH PRECONSTRUCTION BALANCING VALUES.

F. AT FUME HOOD COLLAR CONNECTION, INSTALL AN AIR TIGHT DRAWBAND CLAMP WITH A NEOPRENE GASKET.

G. REFER TO SHEET MH104 FOR DIFFUSER/GRILLE TAGS AND AIRFLOWS.

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2026/10/19

Key Plan:

Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

MECHANICAL FIRST FLOOR HVAC PLAN - ADD ALTERNATE #2

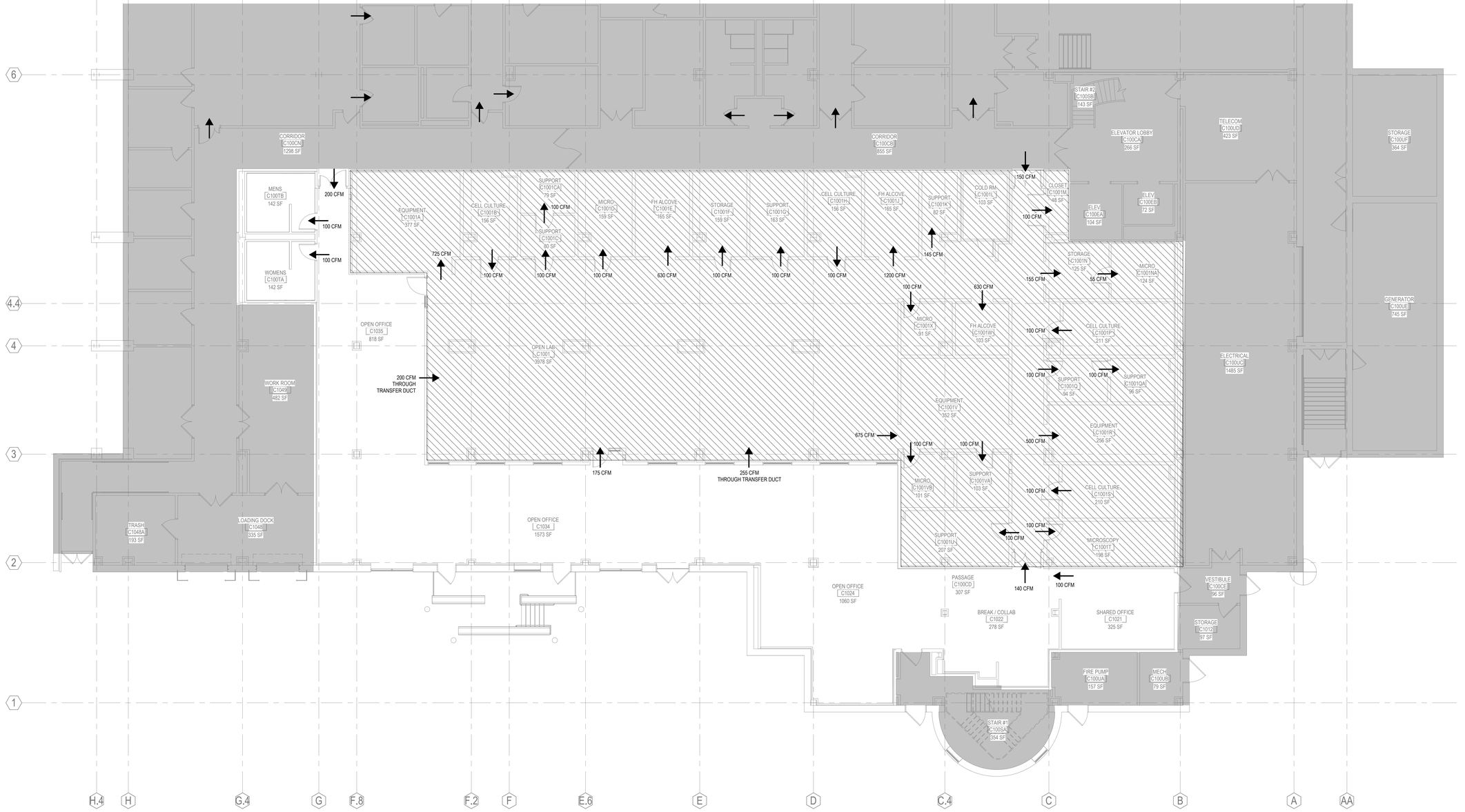
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Revision: **0**

Drawing No. **MH102B**

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ORIGINAL SHEET - ARCH E1



1 MH103 **MECHANICAL FIRST FLOOR BIOSAFETY CLASSIFICATION AND DIRECTIONAL AIRFLOW PLAN**

1/8" = 1'-0"

LEGEND

- BSL2
- NOT CLASSIFIED
- OUT OF SCOPE

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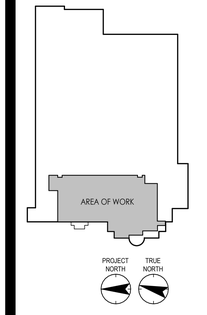
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Key Plan:



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Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

MECHANICAL FIRST FLOOR BIOSAFETY CL. & AIRFLOW PLAN

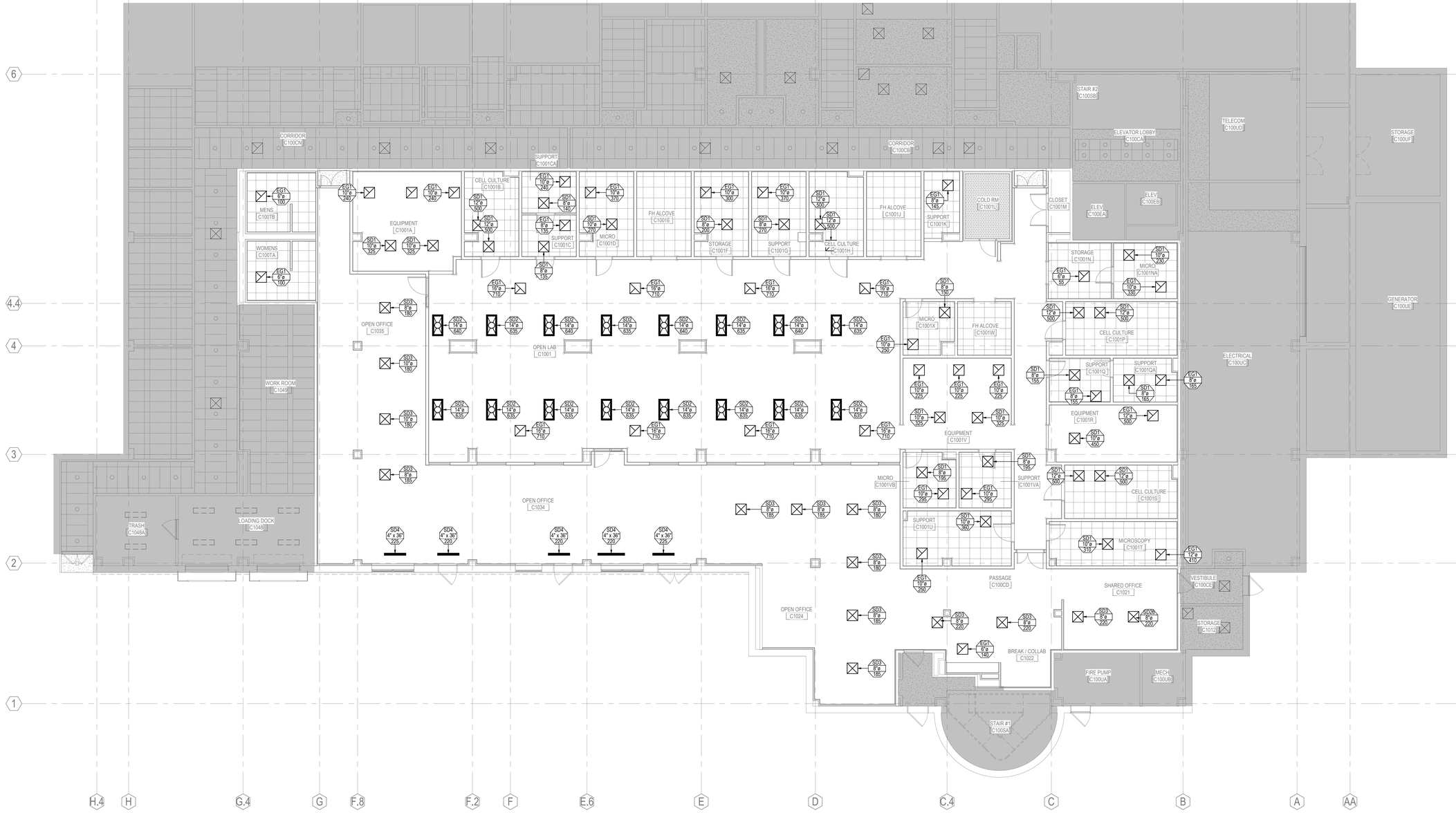
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Revision:**0**

Drawing No. **MH103**

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ORIGINAL SHEET - ARCH E1



1 MECHANICAL FIRE FLOOR AIR TERMINAL PLAN

MH104 — 1/8" = 1'-0"

GENERAL NOTES

A. ALL UTILITY SHUTDOWNS REQUIRED TO CONDUCT CONSTRUCTION WORK WHICH IMPACTS LOCATONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 7 DAYS IN ADVANCE.

B. CONTRACTOR SHALL BALANCE ALL BRANCH LINE CONNECTIONS AND TERMINAL UNITS ASSOCIATED WITH AIR HANDLING UNITS AND EXHAUST FANS TO MATCH PRECONSTRUCTION BALANCING VALUES.

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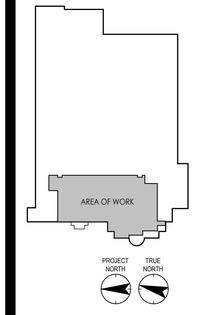
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Key Plan:



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Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

MECHANICAL FIRST FLOOR AIR TERMINAL PLAN

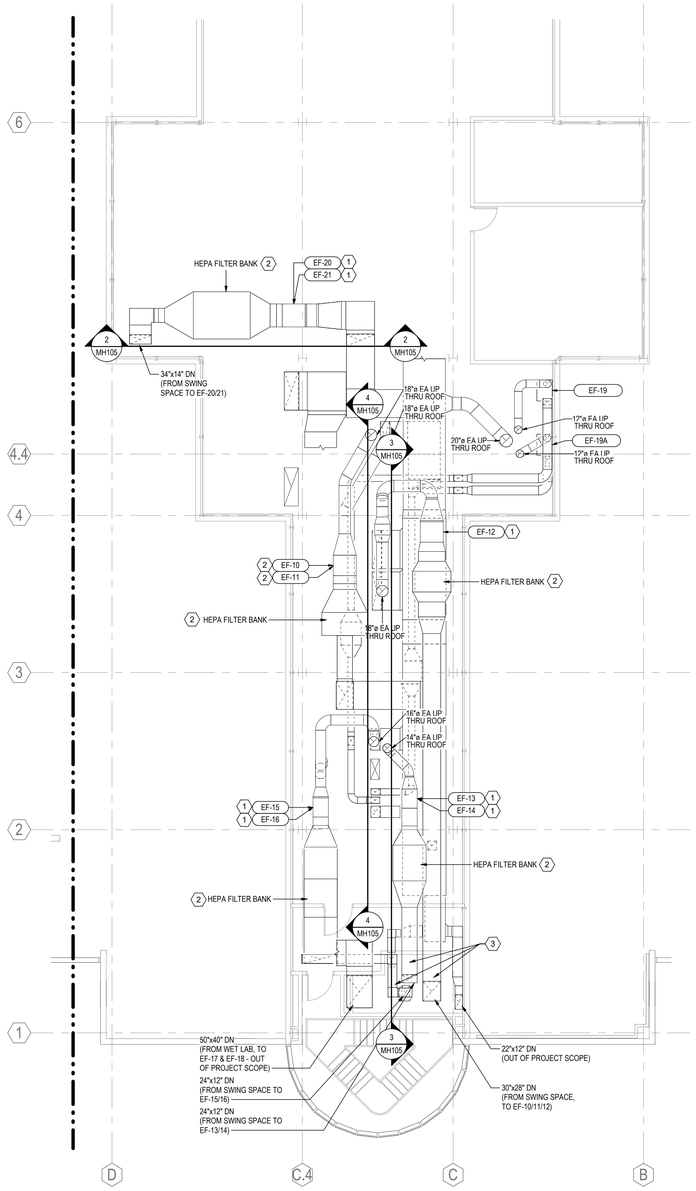
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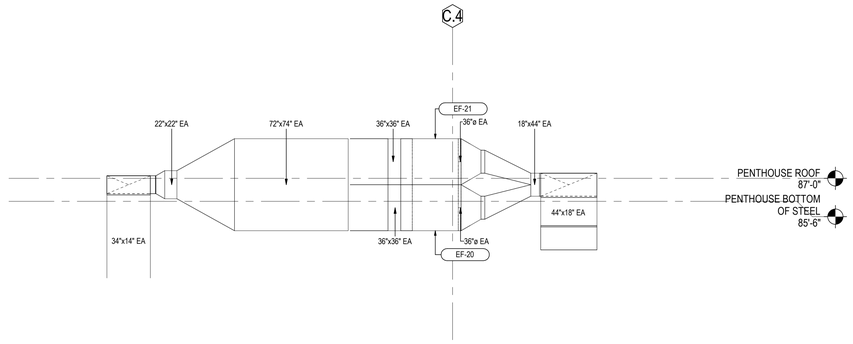
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ORIGINAL SHEET - ARCH E1



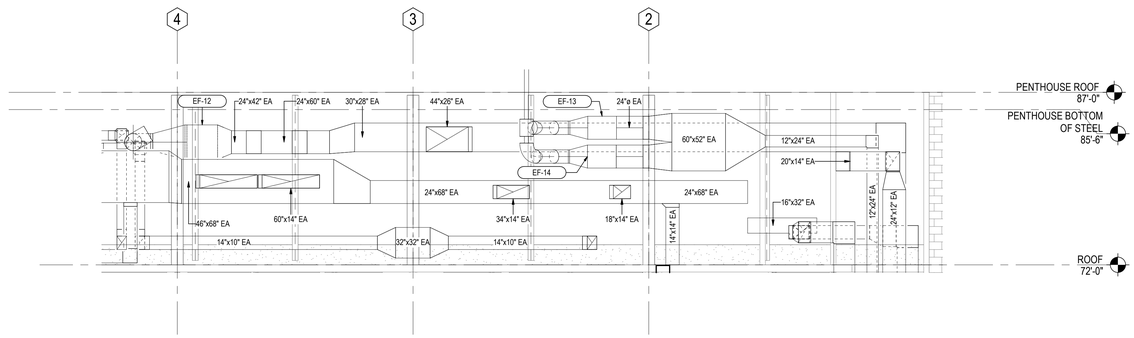
1 MH105 MECHANICAL PENTHOUSE HVAC PLAN

1/8" = 1'-0"



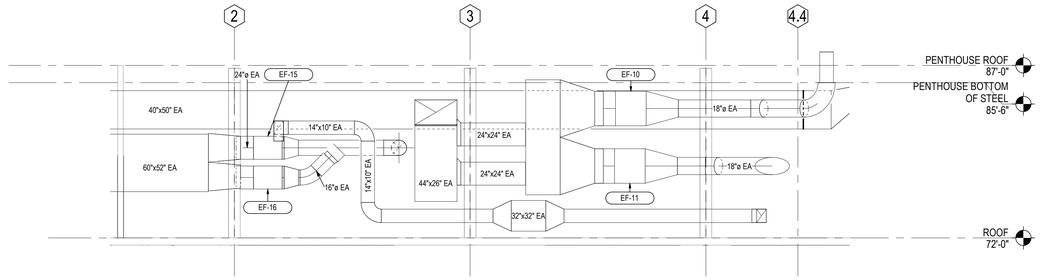
2 MH105 PENTHOUSE MECHANICAL SECTION 1

1/4" = 1'-0"



3 MH105 PENTHOUSE MECHANICAL SECTION 2

3/16" = 1'-0"



4 MH105 PENTHOUSE MECHANICAL SECTION 3

3/16" = 1'-0"

KEYNOTES

1. EXISTING EXHAUST FANS TO BE REFURBISHED AND REMAIN IN PLACE FOR REUSE.
   - A. SCOPE INCLUDES:
     - a. PRE-BALANCE OF EXISTING SYSTEMS.
     - b. REPLACE FAN BELTS AND SHEAVES.
     - c. CHECK VFD FOR PROPER OPERATION – CLEAN HOUSING AND TIGHTEN CONNECTIONS AS NEEDED. REPAIR OR REPLACE AS REQUIRED.
     - d. CHECK FAN DRIVE. ALIGN/ADJUST AS REQUIRED TO ENSURE BEARING SEATING ENABLES PROPER OPERATION. LUBRICATE.
     - e. CLEAN AND TIGHTEN ELECTRICAL CONNECTIONS.
     - f. CLEAN FAN BLADES AND FAN HOUSING, REPAIR IF NEEDED.
     - g. INSPECT FLEXIBLE CONNECTIONS – CLEAN/REPAIR AS NEEDED.
     - h. REMOVE FILTER HOUSINGS UPSTREAM OF EACH FAN SET. REPLACE WITH DUCTWORK TO MATCH SIZE AND MATERIAL OF EXISTING.
     - i. FULLY CLEAN EF-15/16 SYSTEM – PREVIOUS CAGE WAS SYSTEM. ALLERGENS MAY BE PRESENT.
     - j. TEMPORARY SYSTEM BALANCE TO ENABLE CONTINUOUS AIR SUPPLY TO AQUATICS WING DURING AHU RESTORATION AND CONSTRUCTION
     - k. RE-BALANCE SYSTEM FOLLOWING STARTUP TO ALIGN WITH NEW SYSTEM REQUIREMENTS.
2. REMOVE FILTER FROM FILTER HOUSING. FILTER HOUSING TO REMAIN. IF SYSTEM AIRFLOW REQUIREMENT CANNOT BE ACHIEVED WITHOUT FILTER IN PLACE, REPLACE AIR FILTER TO INTRODUCE ADDITIONAL STATIC LOAD TO THE SYSTEM.
3. PROVIDE FIRE WRAPPING ON DUCTWORK FOR A MINIMUM OF 10' BEYOND FIRE RATED BARRIER PENETRATION.

GENERAL NOTES

A. ALL UTILITY SHUTDOWNS REQUIRED TO CONDUCT CONSTRUCTION WORK WHICH IMPACTS LOCATONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 7 DAYS IN ADVANCE.

B. PROVIDE FIRESTOP SEALING AT ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. REFER TO LIFE SAFETY PLAN FOR FIRE RATED ASSEMBLY LOCATIONS.

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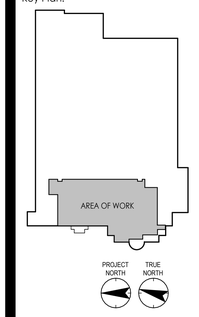
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2026/10/19

Key Plan:



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SUCF#: 191030

Project No.:225306010

MECHANICAL PENTHOUSE PLAN

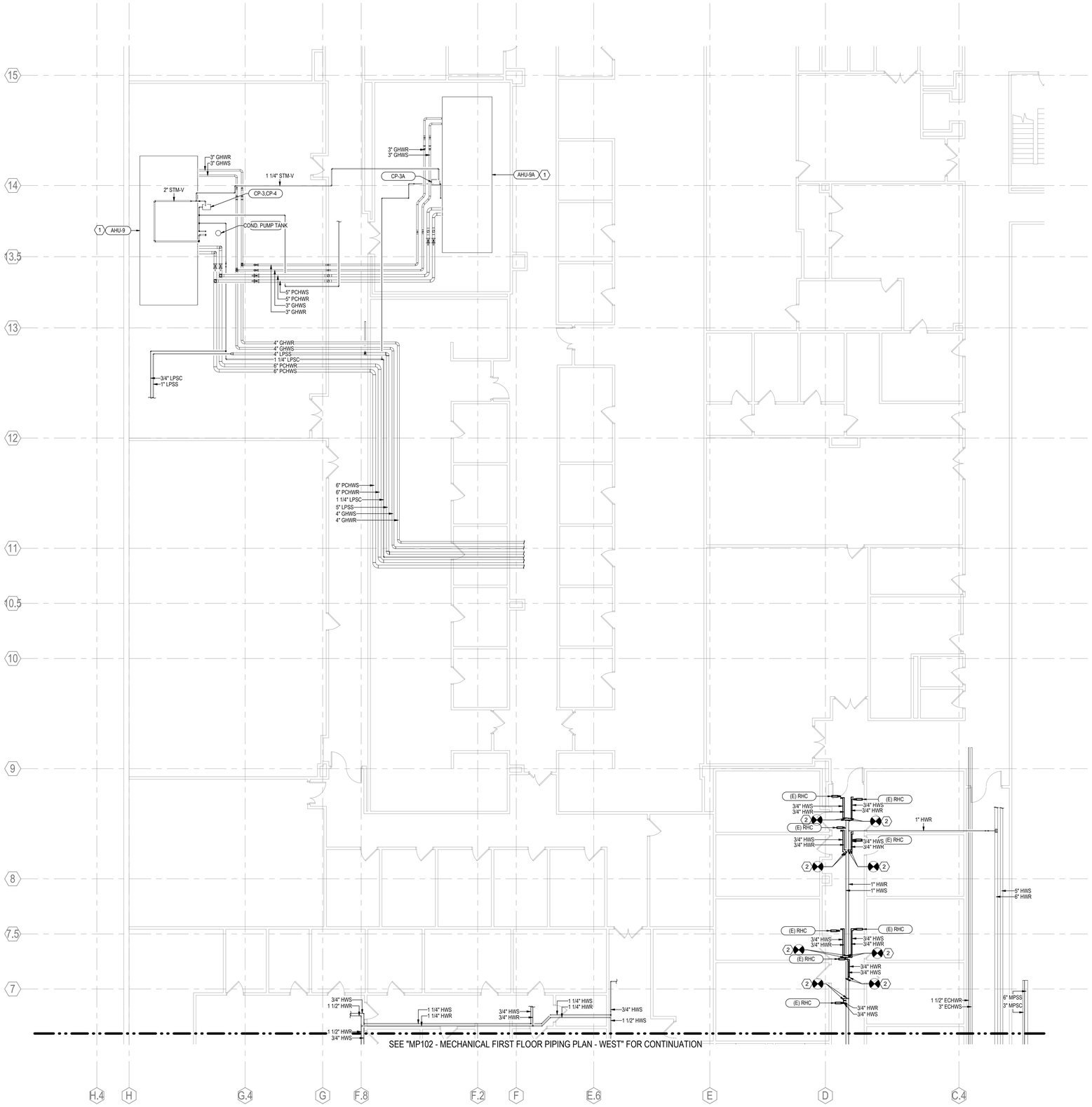
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Revision: **0**

Drawing No. **MH105**

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ORIGINAL SHEET - ARCH E1



1 MP101 **MECHANICAL FIRST FLOOR PIPING PLAN - EAST**

1/8" = 1'-0"

GENERAL NOTES

A. ALL UTILITY SHUTDOWNS REQUIRED TO CONDUCT CONSTRUCTION WORK WHICH IMPACTS LOCATIONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 10 DAYS IN ADVANCE.

B. PROVIDE FIRESTOP SEALING AT ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. REFER TO LIFE SAFETY PLAN FOR FIRE RATED ASSEMBLY LOCATIONS.

C. INSULATE ALL PIPING, FITTINGS, VALVES AND SPECIALTIES.

D. CONTRACTOR SHALL BALANCE ALL BRANCH AND TERMINAL UNIT VALVES ASSOCIATED WITH AIR HANDLING UNITS AND EXHAUST FANS TO MATCH PRECONSTRUCTION BALANCING VALUES.

E. ALL BRANCH PIPING CONNECTIONS SHALL BE MADE AT THE TOP OF THE MAIN.

F. THE FOLLOWING DEVICES OR COMPONENTS ARE NOT ALLOWED TO BE INSTALLED:
   a. DIELECTRIC UNIONS
   b. AUTOMATIC FLOW CONTROL VALVES
   c. COMBINATION DEVICES AND PREPIPED MANUFACTURER COIL FIT-UP KITS.
   d. TRIPLE DUTY VALVES

G. ALL FITTINGS WITH HOSE CONNECTIONS SHALL BE PROVIDED WITH VACUUM BREAKERS.

KEYNOTES

1. EXISTING AIR HANDLER TO BE REFURBISHED AND REMAIN IN PLACE FOR REUSE. AIR HANDLER REFURBISHMENT SCOPE INCLUDES:
   A. PRE-BALANCE OF EXISTING SYSTEMS
   B. REFURBISH AIR HANDLER INTERIOR – INSTALL EPOXY, FIRE BARRIER, AND WATER-PROOF POLYMERIC TOPCOAT (AQUIS OR SIMILAR).
   C. RESTORE INTERIOR STRUCTURE, SEAL AND PROTECT STEEL.
   D. COIL CLEANING – STEAM PREHEAT COIL AND CHILLED WATER COOLING COIL PLUS COIL TUBE INTERIORS – MECHANICAL CLEANING PLUS ENZYME-CONTAINING BIOSURFACTANTS COIL RESTORATION PROCESS (AQUIS OR SIMILAR).
   E. REPLACE AHU FILTERS.
   F. REPLACE CONDENSATE TRAPS AND PRIME.
   G. REPAIR OR REPLACE STEAM SYSTEM TRAPS, STRAINERS, MANUAL VALVES, CONTROL VALVES.
   H. REPAIR OR REPLACE CHILLED WATER SYSTEM STRAINERS, MANUAL VALVES, CONTROL VALVES.
   I. REPLACE FAN BELTS AND SHEAVES.
   J. CHECK VFD FOR PROPER OPERATION – CLEAN HOUSING AND TIGHTEN CONNECTIONS AS NEEDED. REPAIR OR REPLACE AS REQUIRED.
   K. CLEAN AND TIGHTEN ELECTRICAL CONNECTIONS.
   L. CLEAN FAN BLADES AND FAN HOUSING, REPAIR IF NEEDED.
   M. CHECK INTEGRITY OF PANELS ON EQUIPMENT – REPAIR OR REPLACE AS NEEDED.
   N. LUBRICATE ALL FIELD-SERVICEABLE BEARINGS.
   O. CHECK DAMPER CONDITION, SETTING AND OPERATION – LUBRICATE, REPAIR OR REPLACE AS NEEDED.
   P. TEMPORARY SYSTEM BALANCE TO ENABLE CONTINUOUS AIR SUPPLY TO AQUATICS WING DURING AHU RESTORATION AND CONSTRUCTION
   Q. RE-BALANCE SYSTEM FOLLOWING STARTUP TO ALIGN WITH NEW SYSTEM REQUIREMENTS.
   R. MODIFY AHU CONTROLS AS REQUIRED TO ACCOMMODATE NEEDS OF NEW AND EXISTING AREAS SERVED.
2. CONNECT NEW PIPING AT POINTS INDICATED AND ROUTE TO REINSTALLED REHEAT COIL. AQUATICS VIVARIUM TO REMAIN OPERATIONAL DURING RENNOVATIONS. DEMOLITION AND CONSTRUCTION WORK TO BE COORDINATED WITH CORNELL FACILITIES AND LAB USERS. MEANS OF TEMPORARY TEMPERATURE CONTROL MAY BE REQUIRED DURING CONSTRUCTION WORK.

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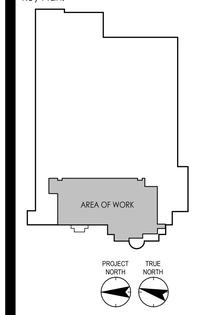
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Issued/Revision		YYYY.MM.DD

Permit/Seal

STATE OF NEW YORK · SARAH ALICE GRADY · 104701 · LICENSED PROFESSIONAL ENGINEER

2026/10/19

Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

MECHANICAL FIRST FLOOR PIPING PLAN - E

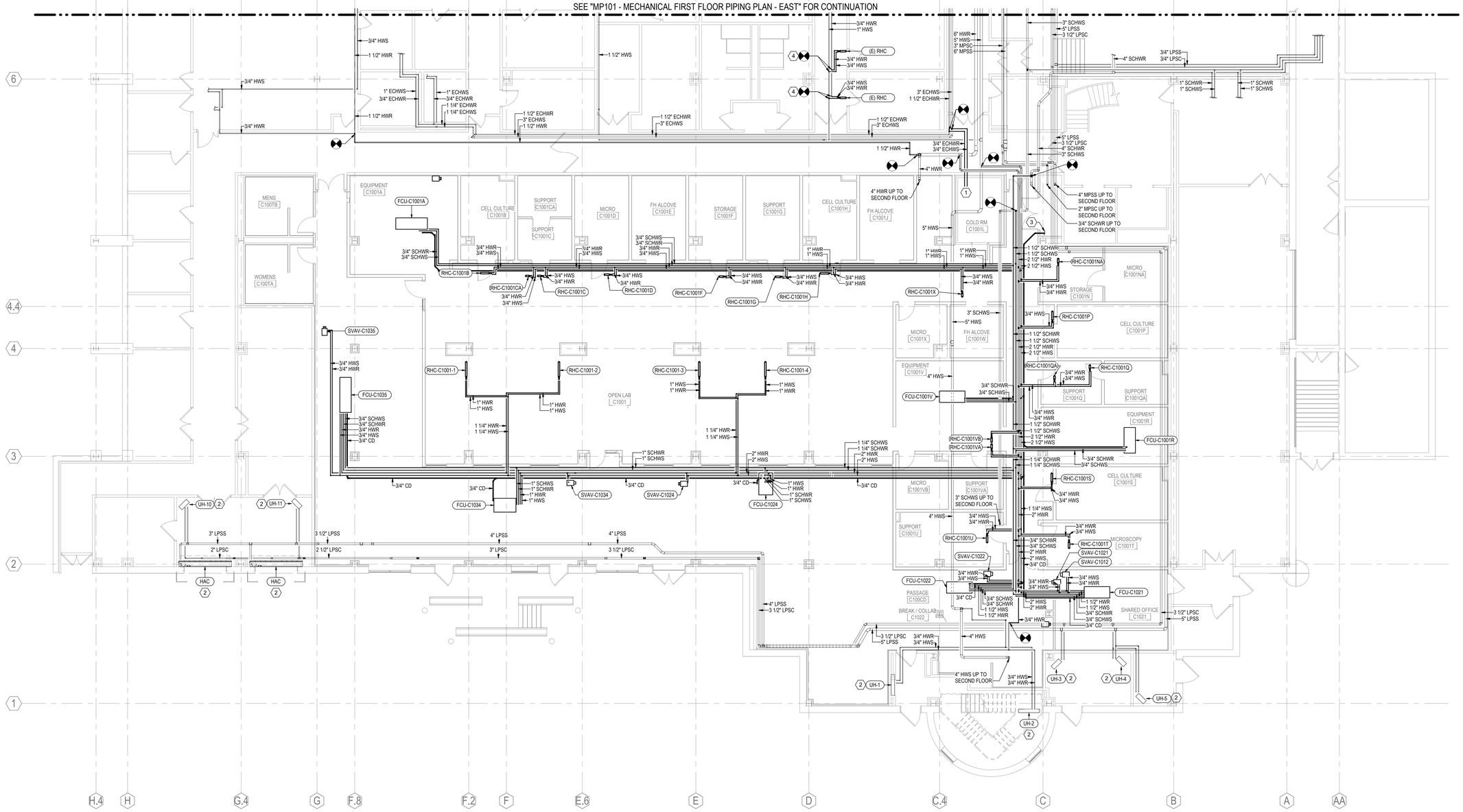
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Revision: **0**

Drawing No. **MP101**

ORIGINAL SHEET - ARCH E1

SEE "MP101 - MECHANICAL FIRST FLOOR PIPING PLAN - EAST" FOR CONTINUATION



1 MECHANICAL FIRST FLOOR PIPING PLAN - WEST

1/8" = 1'-0"

KEYNOTES

1. PROVIDE ECHWS/R PIPING TO COLD ROOM CONDENSING UNIT BY OTHERS.
2. EQUIPMENT EXISTING TO REMAIN.
3. CONDENSATE PIPING TO DISCHARGE TO FLOOR DRAIN. PROVIDE AIR GAP 2X SIZE OF PIPE DIAMETER.
4. CONNECT NEW PIPING AT POINTS INDICATED AND ROUTE TO REINSTALLED REHEAT COIL. AQUATICS VIVARIUM TO REMAIN OPERATIONAL DURING RENNOVATIONS. DEMOLITION AND CONSTRUCTION WORK TO BE COORDINATED WITH CORNELL FACILITIES AND LAB USERS. MEANS OF TEMPORARY TEMPERATURE CONTROL MAY BE REQUIRED DURING CONSTRUCTION WORK.

GENERAL NOTES

A. ALL UTILITY SHUTDOWNS REQUIRED TO CONDUCT CONSTRUCTION WORK WHICH IMPACTS LOCATONS OUTSIDE OF WORK AREA SHALL BE CONDUCTED ON OFF HOURS COORDINATE WITH CORNELL UNIVERSITY A MINIMUM OF 10 DAYS IN ADVANCE.

B. PROVIDE FIRESTOP SEALING AT ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. REFER TO LIFE SAFETY PLAN FOR FIRE RATED ASSEMBLY LOCATIONS.

C. INSULATE ALL PIPING, FITTINGS, VALVES AND SPECIALTIES.

D. CONTRACTOR SHALL BALANCE ALL BRANCH AND TERMINAL UNIT VALVES ASSOCIATED WITH AIR HANDLING UNITS AND EXHAUST FANS TO MATCH PRECONSTRUCTION BALANCING VALUES.

E. ALL BRANCH PIPING CONNECTIONS SHALL BE MADE AT THE TOP OF THE MAIN.

F. THE FOLLOWING DEVICES OR COMPONENTS ARE NOT ALLOWED TO BE INSTALLED:
   a. DIELECTRIC UNIONS
   b. AUTOMATIC FLOW CONTROL VALVES
   c. COMBINATION DEVICES AND PREPIPED MANUFACTURER COIL FIT-UP KITS.
   d. TRIPLE DUTY VALVES

G. ALL FITTINGS WITH HOSE CONNECTIONS SHALL BE PROVDID WITH VACUUM BREAKERS.

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STATE OF NEW YORK · DARBY ALICE DWYER · 104701 · LICENSED PROFESSIONAL ENGINEER

2026/10/19

Key Plan:

Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

MECHANICAL FIRST FLOOR PIPING PLAN - W

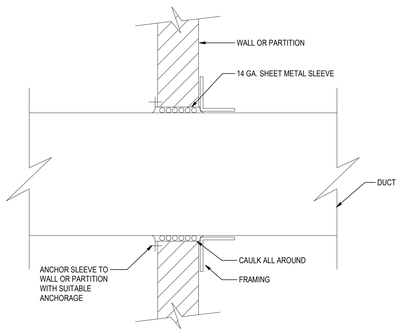
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Revision:0

Drawing No. **MP102**

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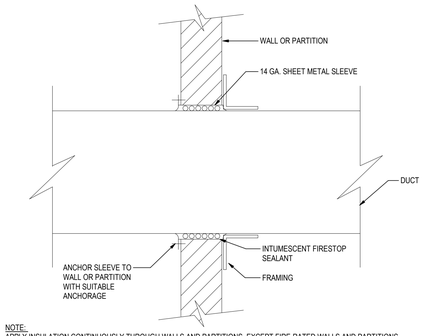
ORIGINAL SHEET - ARCH E1



NOTE:
APPLY INSULATION CONTINUOUSLY THROUGH WALLS AND PARTITIONS, EXCEPT FIRE-RATED WALLS AND PARTITIONS.

IF DUCT PENETRATES FIRE-RATED WALL/PARTITION, TERMINATE INSULATION AT FIRE/SMOKE DAMPER SLEEVES.

1 M500 DUCT PENETRATION THROUGH WALL DETAIL
N.T.S

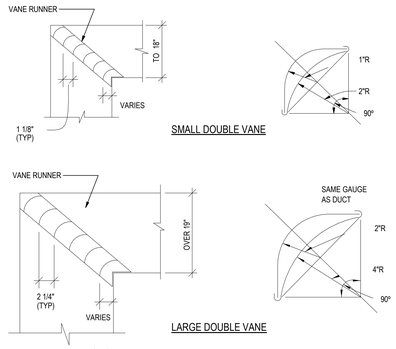


NOTE:
APPLY INSULATION CONTINUOUSLY THROUGH WALLS AND PARTITIONS, EXCEPT FIRE-RATED WALLS AND PARTITIONS.

IF DUCT PENETRATES FIRE-RATED WALL/PARTITION, TERMINATE INSULATION AT FIRE/SMOKE DAMPER SLEEVES.

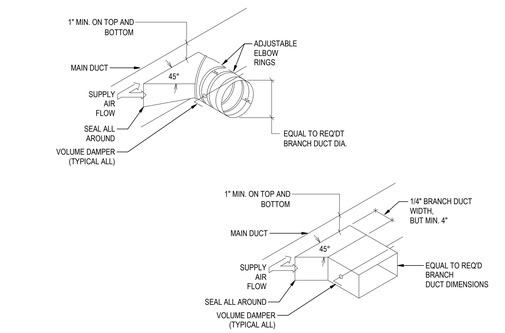
FIRESTOPPING METHOD BASED ON HILTI UL SYSTEM NO. WL5029. REFER TO MFG LITERATURE FOR SPECIFIC PRODUCT LIMITATIONS. OTHER UL APPROVED FIRESTOPPING METHODS TO MEET REQUIREMENTS OF INSTALLATION ARE ACCEPTABLE.

2 M500 EXHAUST DUCT THROUGH RATED WALL
N.T.S

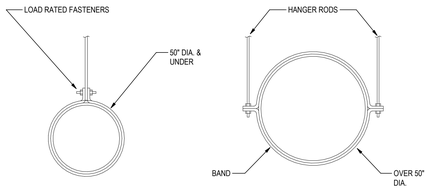


NOTES:
1. ALL RECTANGULAR MITERED ELBOWS SHALL HAVE TURNING VANES.

3 M500 DUCT TURN INSTALLATION DETAIL
N.T.S



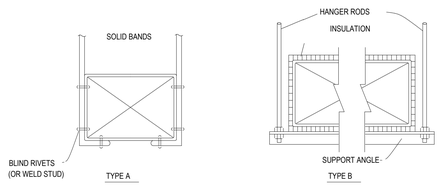
4 M500 TYPICAL BRANCH TAKE OFF FITTING DETAIL
N.T.S



HANGER STRAPS OR RODS			
MAX. CUT DIAMETER	HANGER	MAX. LOAD LBS	MAX. SPACING FT.
26"	ONE 1" X 22 GA STRAP	260	12
36"	ONE 1" X 18 GA STRAP	420	12
50"	ONE 1" X 16 GA STRAP	700	12
60"	TWO 3/8" DIA. RODS	1320	12
84"	TWO 1/2" DIA. RODS	2500	12

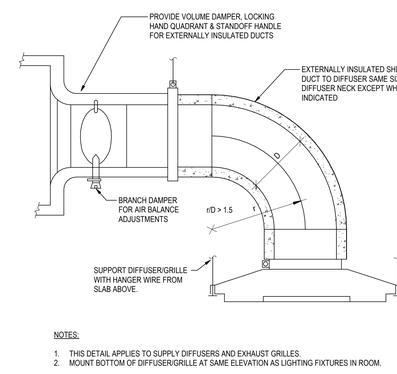
NOTES:
1. TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.
2. INSULATION AROUND HANGER.

5 M500 ROUND DUCTWORK HANGER DETAIL AND SCHEDULE
N.T.S



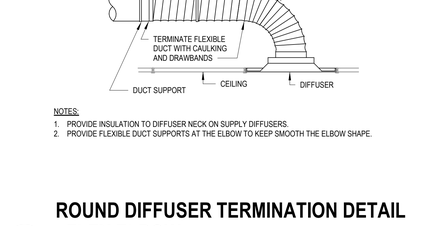
DUCT WIDTH	ROD DIAMETER	TYPE	SUPPORT ANGLE	MAX. SPACING
UP TO 24"	USE 1"x1/8"	A	NONE	4'-0" O.C.
25" TO 30"	1/2"	B	1 1/2"x1 1/2"x1/8"	8'-0" O.C.
31" TO 42"	5/8"	B	2"x2"x1/8"	8'-0" O.C.
43" TO 49"	7/8"	B	2"x2"x3/16"	6'-0" O.C.
50" TO 61"	1"	B	2"x2"x1/4"	6'-0" O.C.
62"	1-1/4"	B	SELECT FOR 1/2" MAX. DEFLECTION AT DES. LD	6'-0" O.C.

6 M500 DUCTWORK HANGER DETAIL AND SCHEDULE
N.T.S



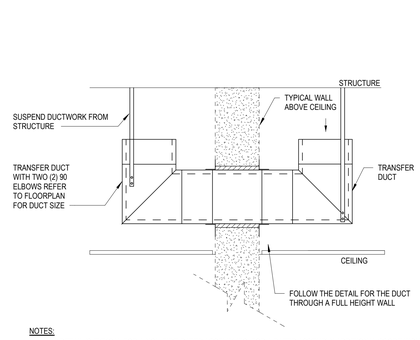
NOTES:
1. THIS DETAIL APPLIES TO SUPPLY DIFFUSERS AND EXHAUST GRILLES.
2. MOUNT BOTTOM OF DIFFUSER/GRILLE AT SAME ELEVATION AS LIGHTING FIXTURES IN ROOM.

7 M500 DIFFUSER HARD DUCT CONNECTION
NOT TO SCALE



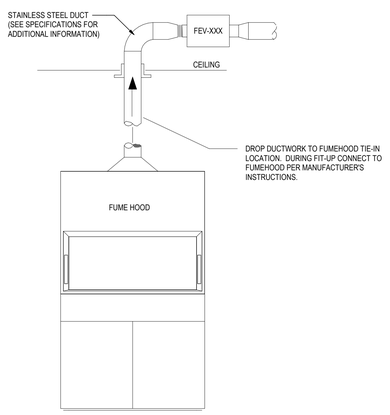
NOTES:
1. PROVIDE INSULATION TO DIFFUSER NECK ON SUPPLY DIFFUSERS.
2. PROVIDE FLEXIBLE DUCT SUPPORTS AT THE ELBOW TO KEEP SMOOTH THE ELBOW SHAPE.

ROUND DIFFUSER TERMINATION DETAIL - FLEX ELBOW
8 M500
N.T.S.

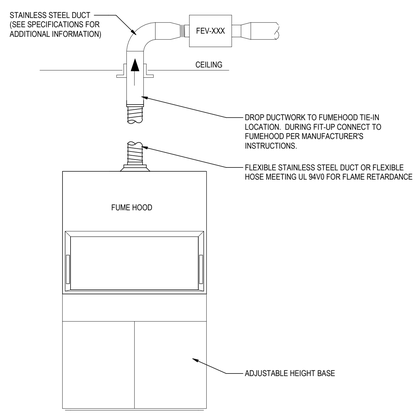


NOTES:
1. THIS DETAIL IS TYPICAL FOR A NON FIRE-RATED ASSEMBLIES, FOR A RATED ASSEMBLY ADDITIONAL SCOPE WOULD BE REQUIRED TO MAINTAIN THE RATING. REFER TO THE CONTRACT DOCUMENTS.
2. THE ELBOWS CAN BE IN THE HORIZONTAL OR VERTICAL DEPENDING ON THE LOCATION. THEY CAN ALSO FORM A "U" SHAPE OR A "Z" SHAPE. THIS DETAIL SHOWS THE VERTICAL APPROACH WITH A "U" SHAPE.. REFER TO THE CONTRACT DOCUMENTS FOR THE CONFIGURATION FOR EACH INSTANCE.
3. THE LENGTH SHALL VARY TO PREVENT LINE OF SITE THROUGH THE ASSEMBLY.
4. THE TRANSFER DUCT SHALL BE INTERNALLY LINED. REFER TO THE CONTRACT DOCUMENTS FOR DUCT MATERIAL AND INSULATION REQUIREMENTS.

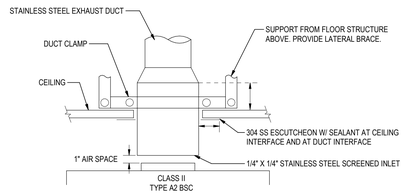
9 M500 TRANSFER DUCT DETAIL
N.T.S.



10 M500 FUMEHOOD FIT-UP DETAIL
N. T. S.



11 M500 ADJUSTABLE FUMEHOOD FIT-UP DETAIL
N.T.S.



NOTE:
1. ALL DUCTWORK BELOW CEILING SHALL BE FINISHED 304 STAINLESS STEEL.
2. BSC VENDOR TO SUPPLY EXHAUST TRANSITION CANOPY.
3. EA THROUGH THIMBLE CONNECTION TO BE 15% GREATER THAN NOMINAL BSC FLOWRATE.

12 M500 BSC EXHAUST THIMBLE CONNECTION DETAIL
N.T.S.

GENERAL NOTES

A. DO NOT USE THE FOLLOWING PIPING SPECIALTIES - NOT ALLOWABLE BY CLIENT:
   a. DIELECTRIC UNIONS
   b. AUTOMATIC FLOW CONTROL VALVES
   c. COMBINATION DEVICES AND PRE-PIPED MANUFACTURER COIL FIT-OUT KITS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
      - MANUAL BALANCED/CONTROL/BALL ISOLATION VALVES
      - Y-STRAINER/BALL ISOLATION VALVES
      - BALANCING/SHUTOFF VALVES
      - BALL ISOLATION/DRAIN VALVES
   d. TRIPLE DUTY VALVES

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2026/10/19

Key Plan:

Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

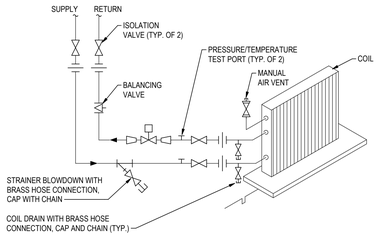
Project No.:225306010

MECHANICAL DETAILS

Scale: NOT TO SCALE
Revision: **0**
Drawing No. **M500**

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ORIGINAL SHEET - ARCH E1

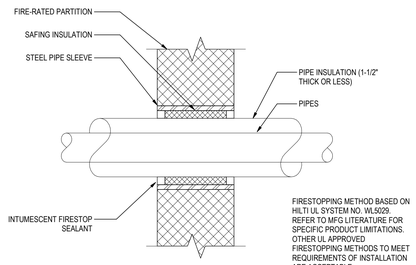


NOTE:

1. PROVIDE DRAIN PAN AND TRAP ON CHILLED WATER COILS ONLY.

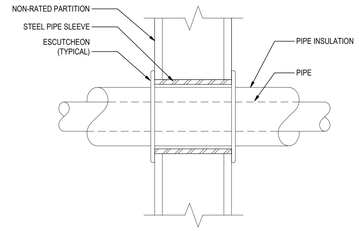
1 M501 FAN COIL AND REHEAT COIL PIPING DETAIL

N.T.S.



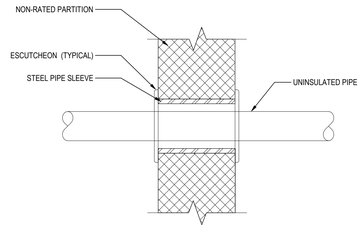
2 M501 INSULATED PIPE PENETRATION OF RATED PARTITIONS WITH FIRESTOPPING

N.T.S.



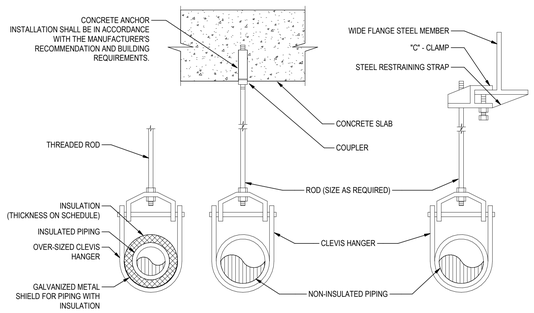
3 M501 INSULATED PIPE PENETRATIONS OF NON-RATED PARTITIONS

N.T.S.



4 M501 UNINSULATED PIPE PENETRATIONS OF NON-RATED PARTITIONS.

N.T.S.

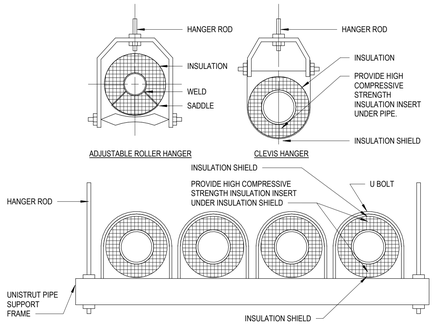


NOTES:

1. HANGERS AND RODS SHALL BE HOT-DIPPED GALVANIZED IN AREAS NOT SUBJECT TO CORROSION.
2. IN CORROSIVE ENVIRONMENTS, HANGERS AND RODS SHALL BE STAINLESS STEEL.

5 M501 CLEVIS HANGER PIPE SUPPORT DETAIL

N.T.S.

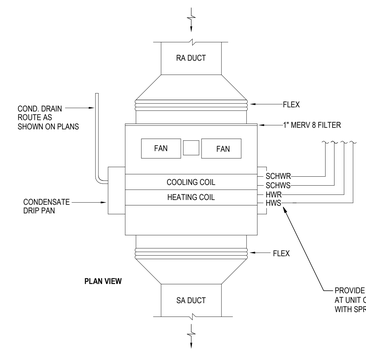


NOTES:

1. FOLLOW THE CONTRACTOR DOCUMENTS FOR WHERE EACH HANGER TYPE APPLIES
2. FOLLOW REQUIREMENTS FOR VIBRATION ISOLATION AND SEISMIC AS NOTED IN THE CONTRACT DOCUMENTS.

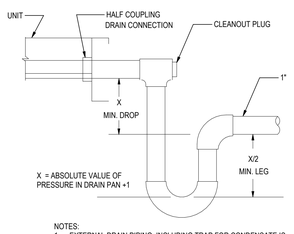
6 M501 PIPE HANGER DETAIL

N.T.S.



7 M501 COOLING AND HEATING FAN COIL UNIT

N.T.S.

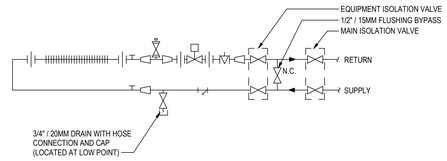


NOTES:

1. EXTERNAL DRAIN PIPING, INCLUDING TRAP FOR CONDENSATE IS REQUIRED FOR ALL UNITS. REDUCING PIPE SIZE AND NON-CONFORMANCE TO THESE DETAILS WILL HINDER CONDENSATE REMOVAL FROM DRAIN PAN OF UNIT.
2. REFER TO PLUMBING FOR ROUTING TO FINAL DRAIN POINT.

8 M501 FAN COIL CONDENSATE DRAIN DETAIL

N.T.S.



NOTES:

1. THE EQUIPMENT DRAIN IS SEPARATE FROM THE BLOW DOWN STRAINER DRAIN.
2. PIPE TAPS FROM THE MAIN SHALL BE OFF OF THE TOP OF THE MAIN EXCEPT WHERE NOTED OTHERWISE.
3. THE EQUIPMENT ISOLATION VALVES SHALL BE CLOSED WHEN INSTALLED AND THE FLUSHING BYPASS VALVE SHALL BE OPEN. AFTER THE INITIAL FLUSHING, THE FLUSHING BYPASS VALVE SHALL BE CLOSED AND THE HANDLE REMOVED. THE EQUIPMENT ISOLATION VALVES SHALL BE OPENED.
4. ALL CONTROL VALVES SHALL BE 2-WAY VALVES EXCEPT THOSE NOTED IN THE CONTRACT DOCUMENTS TO BE 3-WAY VALVES. ALL CONTROL VALVES SHALL BE SIZED PER SCHEDULE.
5. ISOLATION VALVES ARE SHOWN AS BALL VALVES, REFER TO THE CONTRACT DOCUMENTS FOR THE SPECIFIC VALVE TYPE BASED ON THE PIPE SIZE AND APPLICATION.
6. SHUT OFF VALVES AND ACCESSORIES SHALL BE THE SAME SIZE AS THE SYSTEM PIPING. TRANSITION TO THE COIL CONNECTION SIZE AT THE COIL.
7. ALL STRAINERS SHALL BE BLOW DOWN TYPE WITH AN ISOLATION VALVE AND CAP.
8. COORDINATE WITH THE CONTRACT DOCUMENTS AS TO THE LOCATION OF THE VALVE ASSEMBLY (FLOOR BELOW, IN CEILING, OR INSIDE OF THE ENCLOSURE). LOCATE THE AIR VENT AT THE TOP OF THE SYSTEM AND THE DRAIN VALVE AT THE LOW POINT.).
9. WHERE THE PIPING PLAN SHOWS MULTIPLE UNITS CONNECTED IN PARALLEL WITH A SINGLE CONTROL VALVE / VALVE ASSEMBLY; PIPE EACH UNIT IN REVERSE RETURN FOR SELF BALANCING AND PROVIDE A SEPARATE: SET OF ISOLATION VALVES, AIR VENT, DRAIN, AND SET OF PRESSURE/TEMPERATURE TAPS FOR EACH UNIT

9 M501 CONVECTOR PIPING DETAIL

N.T.S.

GENERAL NOTES

A. DO NOT USE THE FOLLOWING PIPING SPECIALTIES - NOT ALLOWABLE BY CLIENT:
   a. DIELECTRIC UNIONS
   b. AUTOMATIC FLOW CONTROL VALVES
   c. COMBINATION DEVICES AND PRE-PIPED MANUFACTURER COIL FIT-OUT KITS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
      - MANUAL BALANCED/CONTROL/BALL ISOLATION VALVES
      - Y-STRAINER/BALL ISOLATION VALVES
      - BALANCING/SHUTOFF VALVES
      - BALL ISOLATION/DRAIN VALVES
   d. TRIPLE DUTY VALVES

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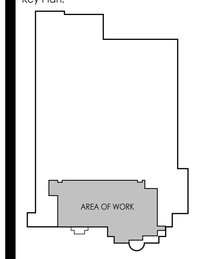
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2026/10/19

Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

MECHANICAL DETAILS

Scale: N.T.S.
Revision: **0**
Drawing No. **M501**

•Plot location in Project Information
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ORIGINAL SHEET - ARCH E1

EXISTING AHU SCHEDULE

UNIT IDENTIFICATION		FAN				FILTERS				PREHEAT COIL												COOLING COIL												NOTES
						PREFILTER		FINAL FILTER		COIL				AIR					FLUID					COIL				AIR						FLUID				
TAG	SPACES SERVED	AIRFLOW (CFM)	TSP (IN-WG)	SPEED (RPM)	HP	EFFICIENCY (%)	TYPE	EFFICIENCY (%)	TYPE	TOTAL CAPACITY (MBH)	FACE AREA (SQ FT)	NUMBER OF ROWS	FPI	TOTAL AIRFLOW (CFM)	EDB (F)	LDB (F)	FACE VELOCITY (FPM)	MAX APD (IN-WG)	FLUID TYPE	FLUID FLOW (GPM)	EWT (F)	LWT (F)	MAX WPD (FT)	TOTAL CAPACITY (MBH)	FACE AREA (SQ FT)	NUMBER OF ROWS	FPI	TOTAL AIRFLOW (CFM)	EDB (F)	EWB (F)	LDB (F)	LWB (F)	FACE VELOCITY (FPM)	MAX APD (IN-WG)	FLUID TYPE	FLUID FLOW (GPM)	EWT (F)	LWT (F)	MAX WPD (FT)	
(E) AHU-9	LEVEL 1	28,300	4.5	1,104	30	40	6" MEDIA BOX	99.7	5 WIDE X 3 HIGH MEDIA HEPA	1,525.8	43.5	2	*	28,300	0.0	50.0	500	0.17	40% EG **	86.1	180	140	5.1	1,969	84.0	8	*	28,300	88.0	73.0	52.0	51.0	337	0.72	WATER	282.0	47	61	16.3	1
(E) AHU-9A	BL2, BL3, AQUATICS	20,425	5.2	915	50	30	2" PLEATED	85	12" CARTRIDGE	1,213.2	58.0	2	8	20,425	-5.0	50.0	352	0.10	50% EG **	67.4	180	140	7.1	1,406	61.5	10	12	20,425	88.0	73.0	52.1	52.0	332	1.22	WATER	200.9	47	61	18.0	1

*INFORMATION NOT INCLUDED IN EXISTING SCHEDULE.
**PREHEAT COIL FLUID DOCUMENTED TO ALIGN WITH ORIGINAL AHU SCHEDULE. VERIFY FLUID TYPE WITH OWNER PRIOR TO INITIATING WORK. SYSTEM CHARGE ONSITE IS UNDERSTOOD TO BE 40% PG.
NOTES:
1. EXISTING AIR HANDLER TO BE REFURBISHED AND REMAIN IN PLACE FOR REUSE. AIR HANDLER REFURBISHMENT SCOPE INCLUDES PRE-BALANCING OF EXISITNG AIR AND WATER SYSTEMS, REPLACING FILTERS, AND RE-BALANCING OF AIR AND WATER SYSTEMS PER NEW DESIGN. REFER TO SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL SCOPE.

EXISTING EXHAUST FAN SCHEDULE

UNIT IDENTIFICATION			MAX AIRFLOW (CFM)	ESP (IN-WG)	FAN WHEEL					FAN MOTOR		MANUFACTURER	MODEL NUMBER	NOTES
TAG	LOCATION	AREA SERVED			TYPE	FAN CLASS	ARRANGEMENT	SPEED (RPM)	MIN WHEEL DIA (IN)	BHP	HP			
EF-10/11/12	PENTHOUSE	ANIMAL HOLDING BL-2	5,750	3.0	TUBULAR CENTRIFUGAL	I	4	1,334	24.5	4.3	5	BARRY BLOWER	245	1
EF-13/14	PENTHOUSE	ANIMAL HOLDING, SURG/NECROP	2,250	3.0	TUBULAR CENTRIFUGAL	I	4	2,208	15	2.1	3	BARRY BLOWER	150	1
EF-15/16	PENTHOUSE	ANIMAL HOLDING CAGE WASH	2,600	3.0	TUBULAR CENTRIFUGAL	I	4	1,979	16.5	2.5	3	BARRY BLOWER	165	1
EF-17/18	PENTHOUSE	WET LAB	14,950	2.5	SWSI	I	9	962	36.5	8.7	10	BFC TYPE BL	660	1
EF-20/21	PENTHOUSE	ANIMAL HOLDING BL-3	5,500	3.0	INDUSTRIAL	I	4	1,534	22.25	4.2	5	BARRY BLOWER	222	1
TX-1	PENTHOUSE	TOILET EXHAUST	2,260	1.5	TUBULAR CENTRIFUGAL	I	4	1,267	18.25	0.9	1	BARRY BLOWER	182	1

NOTES:
1. EXISTING EXHAUST FANS TO REMAIN IN PLACE FOR REUSE. FANS TO BE REBALANCED PER NEW DESIGN. REFER TO SPECIFICATIONS FOR ADDITIONAL SCOPE.

VARIABLE AIR VOLUME BOX SCHEDULE

UNIT IDENTIFICATION			SIZE	AIR FLOW				PRESSURE DROP	COIL			AIR			FLUID				HOUSING	MANUFACTURER	MODEL	NOTES
				OPERATING RANGE		DESIGN RANGE																
TAG	LOCATION	SERVES		MAX	MIN	MAX (OCC)	MIN (UNOCC)		TOTAL CAPACITY (MBH)	NUMBER OF ROWS	FIN TYPE	MAX HEATING AIRFLOW (CFM)	EDB (F)	LDB (F)	FLUID FLOW (GPM)	EWT (F)	LWT (F)	MAX WPD (FT)				
			(IN)	CFM	CFM	CFM	CFM	IN WC														
SVAV-C1035	C1035 - OPEN OFFICE	SUPPLY AIR	6"	550	65	200	0	0.3	6.8	1	ALUMINUM FLAT	200	55	85	0.4	180	144.9	0.12	INSULATED GALVANIZED STEEL	PRICE	SDV	1
SVAV-C1034	C1034 - OPEN OFFICE	SUPPLY AIR	6"	550	65	175	0	0.3	6.0	1	ALUMINUM FLAT	175	55	85	0.4	180	150.7	0.13	INSULATED GALVANIZED STEEL	PRICE	SDV	1
SVAV-C1024	C1024 - OPEN OFFICE	SUPPLY AIR	6"	550	65	155	0	0.3	5.2	1	ALUMINUM FLAT	155	55	85	0.3	180	148.2	0.09	INSULATED GALVANIZED STEEL	PRICE	SDV	1
SVAV-C1021	C1021 - SHARED OFFICE	SUPPLY AIR	6"	550	65	100	0	0.3	4.0	1	ALUMINUM FLAT	100	55	85	0.2	180	139.7	0.03	INSULATED GALVANIZED STEEL	PRICE	SDV	1
SVAV-C1022	C1022 - BREAK/COLLAB, C100CD - PASSAGE	SUPPLY AIR	6"	550	65	180	0	0.3	6.2	1	ALUMINUM FLAT	180	55	85	0.4	180	151.2	0.14	INSULATED GALVANIZED STEEL	PRICE	SDV	1
SVAV-C1012	C1012 - STORAGE, C100CE VESTIBULE	SUPPLY AIR	6"	550	65	175	0	0.3	5.9	1	ALUMINUM FLAT	175	55	85	0.4	180	150.7	0.41	INSULATED GALVANIZED STEEL	PRICE	SDV	1
SVAV-C100CB	C100CB - CORRIDOR, C100CN - CORRIDOR	SUPPLY AIR	8"	1100	125	410	0	0.3	13.7	1	ALUMINUM FLAT	410	55	85	1.9	180	165.6	2.98	INSULATED GALVANIZED STEEL	PRICE	SDV	1
EVAV-C1022	C1022 - BREAK/COLLAB	EXHAUST AIR	6"	550	65	140	0	0.3	-										INSULATED GALVANIZED STEEL	PRICE	SDV	-
EVAV-C100T	C100TB - MENS, C100TA - WOMENS	EXHAUST AIR	6"	550	65	100	0	0.3	-										INSULATED GALVANIZED STEEL	PRICE	SDV	-
EVAV-C1012	C1012 - STORAGE	EXHAUST AIR	6"	550	65	75	0	0.3	-										INSULATED GALVANIZED STEEL	PRICE	SDV	-
SVAV-C1070	C1070 - AQUATICS	SUPPLY AIR	6"	550	65	125	0	0.3	-										INSULATED GALVANIZED STEEL	PRICE	SDV	1
SVAV-C1072	C1072 - AQUATICS	SUPPLY AIR	6"	550	65	125	0	0.3	-										INSULATED GALVANIZED STEEL	PRICE	SDV	1
SVAV-C1073	C1073 - AQUATICS	SUPPLY AIR	6"	550	65	200	0	0.3	-										INSULATED GALVANIZED STEEL	PRICE	SDV	1
SVAV-C1074	C1074 - AQUATICS	SUPPLY AIR	6"	550	65	125	0	0.3	-										INSULATED GALVANIZED STEEL	PRICE	SDV	1
SVAV-C1075	C1075 - AQUATICS	SUPPLY AIR	6"	550	65	150	0	0.3	-										INSULATED GALVANIZED STEEL	PRICE	SDV	1
SVAV-C1076	C1076 - AQUATICS	SUPPLY AIR	6"	550	65	125	0	0.3	-										INSULATED GALVANIZED STEEL	PRICE	SDV	1
SVAV-C1077	C1077 - AQUATICS	SUPPLY AIR	6"	550	65	150	0	0.3	-										INSULATED GALVANIZED STEEL	PRICE	SDV	1
SVAV-C1078	C1078 - AQUATICS, C1000CT - CORRIDOR	SUPPLY AIR	8"	1100	125	475	0	0.3	-										INSULATED GALVANIZED STEEL	PRICE	SDV	1
SVAV-C1079	C1079 - AQUATICS	SUPPLY AIR	6"	550	65	150	0	0.3	-										INSULATED GALVANIZED STEEL	PRICE	SDV	1
SVAV-C1080	C1080 - AQUATICS	SUPPLY AIR	6"	550	65	125	0	0.3	-										INSULATED GALVANIZED STEEL	PRICE	SDV	1
SVAV-C100CT	C1000CT - CORRIDOR, C100TC - TOILET, C100TD - TOILET, C1000CB - CORRIDOR	SUPPLY AIR	8"	1100	125	750	0	0.3	-										INSULATED GALVANIZED STEEL	PRICE	SDV	1

NOTES:
1. CORNELL STANDARDS FOR HOT WATER COILS:
ARRANGEMENT: AIR-WATER COUNTER FLOW; TUBING & BENDS: 5/8" OD, 0.035" COPPER; FIN SPACING: 10 FPI MAX; CASINGS AND FRAMES: 304 STAINLESS STEEL; HEADERS: NON-FERROUS; CONNECTIONS: NON-FERROUS. GROOVED CONNECTIONS ARE NOT ACCEPTABLE.

AIR DEVICES SCHEDULE

TAG	APPLICATION	MATERIAL	FINISH	MAXIMUM VELOCITY (FPM)	SIZE	MANUFACTURER	MODEL NUMBER	NOTES
SD1	SUPPLY	STAINLESS STEEL	WHITE	200	24X24	TITUS	TRITEC-SS	1
SD2	SUPPLY	STAINLESS STEEL	WHITE	200	48X24	TITUS	TRITEC-SS	1
SD3	SUPPLY	GALV. STEEL	WHITE	700	24X24	PRICE INDUSTRIES	SCD	1
SD4	SUPPLY	GALV. STEEL	WHITE	700	4X36	PRICE INDUSTRIES	SDG GV	2
EG1	EXHAUST	STAINLESS STEEL	WHITE	700	24X24	PRICE INDUSTRIES	PDDR	1
EG2	EXHAUST	STAINLESS STEEL	WHITE	700	10X6	PRICE INDUSTRIES	80	3
EG3	EXHAUST	STAINLESS STEEL	WHITE	700	6X4	PRICE INDUSTRIES	80	3

NOTES:
1. IN ROOMS WITHOUT CEILINGS, MOUNT BOTTOM OF DIFFUSER/GRILLE AT SAME ELEVATION AS LIGHTING FIXTURES. SUPPORT DIFFUSER/GRILLE WITH HANGER WIRE FROM SLAB ABOVE.
2. PROVIDE DUCT MOUNTED SUPPLY GRILLE WITH DOUBLE DEFLECTION GRILLE AND INTEGRAL OPPOSED BLADE DAMPER.
3. PROVIDE WITH INTEGRAL VOLUME DAMPER.

FAN COIL UNIT SCHEDULE

TAG	ROOM(S) SERVED	AIRFLOW					HEATING COIL								COOLING COIL									PHYSICAL CHARACTERISTICS				ELECTRICAL					MANUFACTURER	MODEL NUMBER	NOTES
		DIRECT CONNECTED MAKEUP AIRFLOW	RETURN AIRFLOW	SUPPLY AIRFLOW TO SPACE FROM FCU	FAN COUNT	ESP	REQUIRED CAPACITY	SELECTION CAPACITY	EDB	LDB	FLOW	EWT	LWT	MAX WPD	REQUIRED SENSIBLE CAPACITY	TOTAL CAPACITY	SENSIBLE CAPACITY	EDB	EWB	LDB	LWB	FLOW	EWT	LWT	MAX WPD	WEIGHT	HEIGHT	LENGTH	WIDTH	MOTOR HP	MOTOR QTY	VOLTS	FLA	PHASE			
		(CFM)	(CFM)	(CFM)		(IN-WG)	(MBH)	(MBH)	(F)	(F)	(GPM)	(F)	(F)	(FT)	(MBH)	(MBH)	(MBH)	(F)	(F)	(F)	(F)	(GPM)	(F)	(F)	(FT)	(LBS)	(IN)	(IN)	(IN)								
FCU-C1001A	C1001A - EQUIPMENT	0	650	650	4	0.4	-	-	-	-	-	-	-	-	13.4	15.1	13.5	75	63	56	55	2.6	50	62	5	186	11	26	72	1/4	2	115	5.8	1	ENVIROTEC	HLE-D10	1 THROUGH 7
FCU-C1001R	C1001R - EQUIPMENT	0	450	450	2	0.4	-	-	-	-	-	-	-	-	8.9	10.65	9.47	75	63	55.7	54.9	1.8	50	62	5	144	11	26	58	1/4	1	115	2.9	1	ENVIROTEC	HLE-D08	1 THROUGH 7
FCU-C1001V	C1001V - EQUIPMENT	0	650	650	4	0.4	-	-	-	-	-	-	-	-	13.4	15.1	13.5	75	63	56	55	2.6	50	62	5	186	11	26	58	1/4	2	115	5.8	1	ENVIROTEC	HLE-D08	1 THROUGH 7
FCU-C1035	C1035 - OPEN OFFICE	200	525	725	4	0.4	0.1	33.23	70	111.6	1.7	180	140	5	13.5	15.16	14.04	75	63	57.3	55.9	2.6	50	62	5	222	11	26	80	1/4	2	115	5.8	1	ENVIROTEC	HLE-D12	1 THROUGH 7
FCU-C1034	C1034 - OPEN OFFICE	175	925	1100	2	0.4	9.2	40.17	70	102.5	2.0	180	140	5	20.1	22.19	20.89	75	63	57.6	56.1	4.0	50	62	5	313	18	32	50	1/3	2	115	10	1	ENVIROTEC	HPE-D14	1 THROUGH 7
FCU-C1024	C1024 - OPEN OFFICE	255	845	1100	2	0.4	9.2	40.17	70	102.5	2.0	180	140	5	19.1	22.19	20.89	75	63	57.6	56.1	4.0	50	62	5	313	18	32	50	1/3	2	115	10	1	ENVIROTEC	HPE-D14	1 THROUGH 7
FCU-C1021	C1021 - SHARED OFFICE	100	340	440	2	0.4	0.1	20.97	70	113.4	1.1	180	140	5	5.6	8.46	8.06	75	63	58.6	56.7	1.4	50	62	5	152	11	26	58	1/4	1	115	2.9	1	ENVIROTEC	HLE-D08	1 THROUGH 7
FCU-C1022	C1022 - BREAK/COLLAB, C100CD - PASSAGE	180	260	440	2	0.4	0.1	20.97	70	113.4	1.1	180	140	5	8.0	8.46	8.06	75	63	58.6	56.7	1.4	50	62	5	152	11	26	58	1/4	1	115	2.9	1	ENVIROTEC	HLE-D08	1 THROUGH 7

NOTES:
1. OFFICE FAN COIL UNITS: CAPACITY TO BE PROVIDED WITH A MAX SPEED OF MEDIUM.
2. FAN COIL UNITS TO HAVE FULLY MODULATING EC MOTORS.
3. PROVIDE WITH STAINLESS STEEL DRAIN PANS. WHERE GRAVITY DRAINED CONDENSATE CANNOT BE ACHIEVED, PROVIDE CONDENSATE PUMP.
4. PROVIDE WITH DRAIN PAN WATER-LEVEL DETECTION DEVICE CONFORMING TO UL 508 THAT WILL SHUT OFF FCU IN EVENT OF DRAIN BLOCKAGE.
5. PROVIDE WITH MANUFACTURER TOGGLE DISCONNECT SWITCH.
6. USE OF MANUFACTURER COIL KITS OR COMBINATION DEVICES IS NOT ALLOWED.
7. PROVIDE WITH 1" MERV 8 FILTER.

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Consultant

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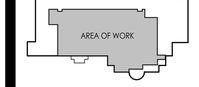
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2026/10/19

Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

MECHANICAL SCHEDULES

Scale:
Revision: **0**
Drawing No. **M600**

ORIGINAL SHEET - ARCH E1
<Plot location in Project Information>
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LABORATORY AIRFLOW SCHEDULE - FIRST FLOOR

DESCRIPTION	ROOM DIMENSIONS				EXHAUST AIR																		SUPPLY AIR												XFER
	AREA (SF)	HEIGHT (FT)	VOLUME (FT3)	OCCUPANTS	EXHAUST POINT	VALVE SIZE (IN.)	VALVE RANGE		OCC SASH OPEN - COOLING DRIVEN AIRFLOW				OCC SASH OPEN - VENTILATION/ACH DRIVEN AIRFLOW				OCC SASH CLOSED (NOTE 5)		UNOCC SASH OPEN		UNOCC SASH CLOSED		OCCUPIED, NO FUME HOOD INSTALLED - COOLING DRIVEN AIRFLOW		OCCUPIED, NO FUME HOOD INSTALLED - VENTILATION/ACH DRIVEN AIRFLOW		UNOCCUPIED, NO FUME HOOD INSTALLED		SUPPLY POINT	VALVE SIZE	VALVE RANGE		OCC SASH OPEN - COOLING DRIVEN		OCC SASH OPEN - VENTILATION/ACH DRIVEN		OCC SASH CLOSED (CFM)	UNOCC SASH OPEN (CFM)	UNOCC SASH CLOSED (CFM)	OCCUPIED, NO FUME HOOD INSTALLED - COOLING DRIVEN	OCCUPIED, NO FUME HOOD INSTALLED - VENTILATION/ACH DRIVEN	UNOCCUPIED, NO FUME HOOD INSTALLED	ALL MODES (CFM)*
							MAX	MIN	100 FPM		80 FPM		100 FPM		80 FPM				100 FPM		UNOCC SASH CLOSED										MAX	MIN	100 FPM	80 FPM	100 FPM	80 FPM							
							(CFM)	(CFM)	(CFM)	(ACH)	(CFM)	(ACH)	(CFM)	(ACH)	(CFM)	(ACH)	(CFM)	(ACH)	(CFM)	(ACH)	(CFM)	(ACH)	(CFM)	(ACH)	(CFM)	(ACH)	(CFM)	(ACH)			(CFM)	(CFM)	(CFM)	(CFM)	(CFM)	(CFM)							
C1001 - OPEN LAB	3,978	14.4	57,283	56	GEV-C1001-1	14"	2750	250	1420		1545		1420		1545		1860		135		575								SAV-C1001-1	12"x24"	4000	350	2545	2545	2545	2545	2545	1260	1260				
					GEV-C1001-2	14"	2750	250	1420	5.9	1545	6.5	1420	5.9	1545	6.5	1860	7.8	135	0.6	575	2.4							SAV-C1001-2	12"x24"	4000	350	2545	2545	2545	2545	2545	1260	1260				4500
					GEV-C1001-3	14"	2750	250	1420		1545		1420		1545		1860		130		570								SAV-C1001-3	12"x24"	4000	350	2545	2545	2545	2545	2545	1255	1255				
					GEV-C1001-4	14"	2750	250	1420		1545		1420		1545		1860		130		570								SAV-C1001-4	12"x24"	4000	350	2545	2545	2545	2545	2545	1255	1255				
C1001E - FH ALCOVE	165	9.0	1,485	2	FEV-C1001E	10"	1300	120	630	25	505	20	630	25	505	20	190	8	630	25	190	8																			-630
C1001J - FH ALCOVE	165	9.0	1,485	2	FEV-C1001J-1	10"	1300	120	630	25	505	20	630	25	505	20	190	8	630	25	190	8																			-1260
					FEV-C1001J-2	10"	1300	120	630	25	505	20	630	25	505	20	190	8	630	25	190	8																			
C1001W - FH ALCOVE	103	9.0	927	2	FEV-C1001W	10"	1300	120	630	41	505	33	630	41	505	33	190	12	630	41	190	12																			-630
C1001A - EQUIPMENT	377	14.4	5,429	0	GEV-C1001A	10"	1300	120	725	8	725	8	725	8	725	8	725	8	725	8	725	8																			-725
C1001R - EQUIPMENT	256	14.4	3,686	0	GEV-C1001R	8"	800	80	500	8	500	8	500	8	500	8	500	8	500	8	500	8																			-500
C1001V - EQUIPMENT	352	14.4	5,069	0	GEV-C1001V	10"	1300	120	675	8	675	8	675	8	675	8	675	8	675	8	675	8																			-675
C1001K - SUPPORT	82	9.0	738	1	GEV-C1001K	6"	315	30	145	12	145	12	145	12	145	12	145	12	145	12	145	12																			-145
C1001N - STORAGE	125	9.0	1,125	0	GEV-C1001N	6"	315	30	55	3	55	3	55	3	55	3	55	3	55	3	55	3																			-55
TOTAL	**5603**	**-**	**77227**	**63**	**-**	**-**	**-**	**-**	**10300**	**8.0**	**10300**	**8.0**	**10300**	**8.0**	**10300**	**8.0**	**10300**	**8.0**	**5150**	**4.0**	**5150**	**4.0**							**-**	**-**	**-**	**-**	**10180**	**10180**	**10180**	**10180**	**10180**	**5030**	**5030**				**-120**
C1001B - CELL CULTURE	159	9.0	1,431	2	GEV-C1001B	12"	1790	180	-														900	38	900	38	900	38	SAV-C1001B	12"	1790	180	-							1000	1000	1000	100
					TOTAL	**-**	**-**	**-**															**900**	**37.7**	**900**	**37.7**	**900**	**37.7**	**-**	**-**	**-**	**-**							**1000**	**1000**	**1000**	**100**
C1001C - SUPPORT	80	9.0	720	1	GEV-C1001C	6"	315	30	-														135	11.3	100	8.3	50	4.2	SAV-C1001C	6"	315	30	-							135	100	50	0
					TOTAL	**-**	**-**	**-**															**135**	**11.3**	**100**	**8.3**	**50**	**4.2**	**-**	**-**	**-**	**-**							**135**	**100**	**50**	**0**
C1001CA - SUPPORT	79	9.0	711	1	GEV-C1001CA	8"	800	80	-														240	20.3	200	16.9	100	8.4	SAV-C1001CA	6"	315	30	-							140	100	0	-100
					TOTAL	**-**	**-**	**-**															**240**	**20.3**	**200**	**16.9**	**100**	**8.4**	**-**	**-**	**-**	**-**							**140**	**100**	**0**	**-100**
C1001D - MICRO	159	9.0	1,431	2	GEV-C1001D	8"	800	80	-														370	15.5	300	12.6	100	4.2	SAV-C1001D	8"	800	80	-							270	200	0	-100
					TOTAL	**-**	**-**	**-**															**370**	**15.5**	**300**	**12.6**	**100**	**4.2**	**-**	**-**	**-**	**-**							**270**	**200**	**0**	**-100**
C1001F - STORAGE	159	9.0	1,431	0	GEV-C1001F	8"	800	80	-														300	12.6	300	12.6	155	6.5	SAV-C1001F	6"	315	30	-							200	200	55	-100
					TOTAL	-	-	-															**300**	**12.6**	**300**	**12.6**	**155**	**6.5**	**-**	**-**	**-**	**-**							**200**	**200**	**55**	**-100**
C1001G - SUPPORT	163	9.0	1,467	2	GEV-C1001G	8"	800	80	-														370	15	300	12.3	100	4.1	SAV-C1001G	8"	800	80	-							270	200	0	-100
					TOTAL	**-**	**-**	**-**															**370**	**15.1**	**300**	**12.3**	**100**	**4.1**	**-**	**-**	**-**	**-**							**270**	**200**	**0**	**-100**
C1001H - CELL CULTURE	159	9.0	1,431	2	GEV-C1001H	12"	1790	180	-														900	38	900	38	900	38	SAV-C1001H	12"	1790	180	-							1000	1000	1000	100
					TOTAL	**-**	**-**	**-**															**900**	**37.7**	**900**	**37.7**	**900**	**37.7**	**-**	**-**	**-**	**-**							**1000**	**1000**	**1000**	**100**
C1001L - COLD ROOM	103	8.3	858	2	GEV-C1001L	6"	315	30	-														115	8.0	115	8.0	60	4.2	SAV-C1001L	6"	315	30	-							115	115	60	0
					TOTAL	-	-	-															**115**	**8.0**	**115**	**8.0**	**60**	**4.2**	**-**	**-**	**-**	**-**							**115**	**115**	**60**	**0**
C1001M - CLOSET	48	14.4	691	0	GEV-C1001M	6"	315	30	-														100	**8.7**	100	**8.7**	100	**8.7**														**-100**
					TOTAL	-	-	-															**100**	**8.7**	**100**	**8.7**	**100**	**8.7**														**-100**
C1001NA - MICRO	124	9.0	1,116	2	GEV-C1001NA	8"	800	80	-														330	**17.7**	250	**13.4**	100	**5.4**	SAV-C1001NA	8"	800	80	-							230	150	0	-100
					TOTAL	**-**	**-**	**-**															**330**	**17.7**	**250**	**13.4**	**100**	**5.4**	**-**	**-**	**-**	**-**							**230**	**150**	**0**	**-100**
C1001P - CELL CULTURE	211	9.0	1,899	3	GEV-C1001P	12"	1790	180	-														900	28	900	28	900	28	SAV-C1001P	12"	1790	180	-							1000	1000	1000	100
					TOTAL	**-**	**-**	**-**															**900**	**28.4**	**900**	**28.4**	**900**	**28.4**	**-**	**-**	**-**	**-**							**1000**	**1000**	**1000**	**100**
C1001Q - SUPPORT	94	9.0	846	1	GEV-C1001Q	6"	315	30	-														155	11.0	155	11.0	100	7.1	SAV-C1001Q	6"	315	30	-							155	155	100	0
					TOTAL	**-**	**-**	**-**															**155**	**11.0**	**155**	**11.0**	**100**	**7**	**-**	**-**	**-**	**-**							**155**	**155**	**100**	**0**
C1001QA - SUPPORT	99	9.0	891	1	GEV-C1001QA	8"	800	80	-														265	17.8	220	14.8	100	6.7	SAV-C1001QA	6"	315	30	-							165	120	0	-100
					TOTAL	-	-	-															**265**	**17.8**	**220**	**14.8**	**100**	**6.7**	**-**	**-**	**-**	**-**							**165**	**120**	**0**	**-100**
C1001S - CELL CULTURE	213	9.0	1,917	3	GEV-C1001S	12"	1790	180	-														900	28	900	28	900	28	SAV-C1001S	12"	1790	180	-							1000	1000	1000	100
					TOTAL	**-**	**-**	**-**															**900**	**28.2**	**900**	**28.2**	**900**	**28.2**	**-**	**-**	**-**	**-**							**1000**	**1000**	**1000**	**100**
C1001T - MICRO	198	9.0	1,782	2	GEV-C1001T	8"	800	80	-														410	13.8	340	11.4	125	4.2	SAV-C1001T	8"	800	80	-							310	240	25	-100
					TOTAL	-	-	-															**410**	**13.8**	**340**	**11.4**	**125**	**4.2**	**-**	**-**	**-**	**-**							**310**	**240**	**25**	**-100**
C1001U - SUPPORT	207	9.0	1,863	3	GEV-C1001U	8"	800	80	-														460.0	14.8	350.0	11.3	125.0	4.0	SAV-C1001U	8"	800	80	-							360	250	25	-100
					TOTAL	-	-	-															**460**	**14.8**	**350**	**11.3**	**125**	**4.0**	**-**	**-**	**-**	**-**							**360**	**250**	**25**	**-100**
C1001VA - SUPPORT	103	9.0	927	2	GEV-C1001VA	8"	800	80	-														295	19.1	225	14.6	100	6.5	SAV-C1001VA	6"	315	30	-							195	125	0	-100
					TOTAL	-	-	-															**295**	**19.1**	**225**	**14.6**	**100**	**6.5**	**-**	**-**	**-**	**-**							**195**	**125**	**0**	**-100**
C1001VB - MICRO	101	9.0	909	2	GEV-C1001VB	8"	800	80	-														295	19.5	225	14.9	100	6.6	SAV-C1001VB	6"	315	30	-							195	125	0	-100
					TOTAL	-	-	-															**295**	**19.5**	**225**	**14.9**	**100**	**6.6**	**-**	**-**	**-**	**-**							**195**	**125**	**0**	**-100**
C1001X - MICRO	91	8.0	728	1	GEV-C1001X	8"	800	80	-														250	20.6	210	17.3	100	8.2	SAV-C1001X	6"	315	30	-							150	110	0	-100
					TOTAL	-	-	-															**250**	**20.6**	**210**	**17.3**	**100**	**8.2**	**-**	**-**	**-**	**-**							**150**	**110**	**0**	**-100**

NOTES:
* AIRFLOW INTO ROOM DENOTED AS NEGATIVE, AIRFLOW OUT OF ROOM DENOTED AS POSITIVE.

OCCUPIED MODES: ROOM AIR CHANGE RATE DESIGNED FOR 8 ACH. SOME SPACES MAY SEE GREATER THAN MINIMUM REQUIRED AIR CHANGE RATE DUE TO AIR VALVE MINIMUM LIMITATIONS OR SPACE COOLING REQUIREMENTS.
UNOCCUPIED MODES: ROOM AIR CHANGE RATE DESIGNED FOR 4 ACH. SOME SPACES MAY SEE GREATER THAN MINIMUM REQUIRED AIR CHANGE RATE DUE TO AIR VALVE MINIMUM LIMITATIONS OR SPACE COOLING REQUIREMENTS.
SASH OPEN MODES: FUME HOOD EXHAUST AIRFLOW REPRESENTS A 100 FPM FACE VELOCITY AT 18-INCH SASH HEIGHT. FUME HOOD AIR VALVE BASIS OF DESIGN WILL BE 100 FPM @ 18-INCHES SASH HEIGHT. FINAL AIRFLOW SETPOINT ESTABLISHED DURING HOOD CERTIFICATION.
SASH CLOSED MODES: FUME HOOD EXHAUST VALUES LISTED ARE 30% OF THE SASH OPEN AT 18-INCH, 100 FPM FACE VELOCITY AIRFLOW RATE IN ALIGNMENT WITH CORNELL 230540 LABORATORY VENTILATION DESIGN AND CONSTRUCTION STANDARD. FINAL MINIMUM FUME HOOD AIRFLOW SHALL BE EVALUATED AND CONFIRMED WITH CORNELL EH&S BASED ON SPECIFIC HAZARD AND IN ALIGNMENT WITH ANSI/AIHA Z9.5.

THE MAX / MIN POSITIONS ON THE VALVE WILL BE SET AT THE FACTORY TO THE FULL RANGE WITH ACTUAL AIRFLOW SETPOINTS SET IN SOFTWARE.

Stantec

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0	ISSUED FOR PERMIT	2024.04.25
Issued/Revision		YYYY.MM.DD

Permit/Seal



2026/10/19

Key Plan:

Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

MECHANICAL SCHEDULES

Scale:

Revision:**0**

Drawing No. **M601**

<Pick location in Project Information>
7/4/2024 4:31:08 PM

ORIGINAL SHEET - ARCH E1

SUPPLY AIR VALVE SCHEDULE

TAG	ROOM(S) SERVED	SIZE	AIR FLOW				MAXIMUM PRESSURE DROP	HOUSING	MANUFACTURER	MODEL	NOTES
			OPERATING RANGE		DESIGN RANGE						
			MAX	MIN	MAX (OCC)	MIN (UNOCC)					
		(IN)	CFM	CFM	CFM	CFM	IN WC				
SAV-C1001-1	C1001 - OPEN LAB	12"x24"	4000	350	2545	1260	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6000	1, 2
SAV-C1001-2	C1001 - OPEN LAB	12"x24"	4000	350	2545	1260	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6000	1, 2
SAV-C1001-3	C1001 - OPEN LAB	12"x24"	4000	350	2545	1255	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6000	1, 2
SAV-C1001-4	C1001 - OPEN LAB	12"x24"	4000	350	2545	1255	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6000	1, 2
SAV-C1001B	C1001B - CELL CULTURE	12"	1790	180	1000	1000	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6000	1, 2
SAV-C1001C	C1001C - SUPPORT	6"	315	30	135	50	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6000	1, 2
SAV-C1001CA	C1001CA - SUPPORT	6"	315	30	140	0	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6000	1, 2
SAV-C1001D	C1001D - MICRO	8"	800	80	270	0	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6000	1, 2
SAV-C1001F	C1001F - STORAGE	6"	315	30	200	55	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6000	1, 2
SAV-C1001G	C1001G - SUPPORT	8"	800	80	270	0	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6000	1, 2
SAV-C1001H	C1001H - CELL CULTURE	12"	1790	180	1000	1000	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6000	1, 2
SAV-C1001L	C1001L - COLD ROOM	6"	315	30	115	60	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6000	1, 2
SAV-C1001NA	C1001NA - MICRO	8"	800	80	230	0	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6000	1, 2
SAV-C1001P	C1001P - CELL CULTURE	12"	1790	180	1000	1000	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6000	1, 2
SAV-C1001Q	C1001Q - SUPPORT	6"	315	30	155	100	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6000	1, 2
SAV-C1001QA	C1001QA - SUPPORT	6"	315	30	165	0	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6000	1, 2
SAV-C1001S	C1001S - CELL CULTURE	12"	1790	180	1000	1000	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6000	1, 2
SAV-C1001T	C1001T - MICRO	8"	800	80	310	25	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6000	1, 2
SAV-C1001U	C1001U - SUPPORT	8"	800	80	360	25	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6000	1, 2
SAV-C1001VA	C1001VA - SUPPORT	6"	315	30	195	0	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6001	1, 2
SAV-C1001VB	C1001VB - MICRO	6"	315	30	195	0	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6000	1, 2
SAV-C1001X	C1001X - MICRO	6"	315	30	150	0	0.2	INSULATED GALVANIZED STEEL	ACCUTROL	AVC6000	1, 2

NOTES:
1. PROVIDE INSULATION ON SUPPLY AIR VALVES (-I-)
2. PROVIDE ALL LAB AIR VALVES WITH TIGH SHUT OFF (-S-), WIRELESS BLUETOOTH CONFIGURATION (W-), AND HIGH SPEED FAIL OPEN/CLOSE (-05)

HOT WATER HEATING COIL SCHEDULE

UNIT IDENTIFICATION			COIL					AIR					FLUID							
TAG	ASSOCIATED AIR VALVE	ROOM(S) SERVED	TOTAL CAPACITY (MBH)	NUMBER OF ROWS	FIN TYPE	FIN LENGTH (IN)	FIN HEIGHT (IN)	TOTAL AIRFLOW (CFM)	EDB (F)	LDB (F)	FACE VELOCITY (FPM)	MAX APD (IN-WG)	FLUID FLOW (GPM)	EWT (F)	LWT (F)	TUBE VELOCITY (FPS)	MAX WPD (FT)	MANUFACTURER	MODEL NUMBER	NOTES
RHC-C1001-1	SAV-C1001-1	C1001 - OPEN LAB	55.5	1	ALUMINUM FLAT	32	18	2545	55	74.9	636	0.10	5.6	180	160.1	2.2	0.5	DAIKIN	5WB1201A	-
RHC-C1001-2	SAV-C1001-2	C1001 - OPEN LAB	55.5	1	ALUMINUM FLAT	32	18	2545	55	74.9	636	0.10	5.6	180	160.1	2.2	0.5	DAIKIN	5WB1201A	-
RHC-C1001-3	SAV-C1001-3	C1001 - OPEN LAB	55.5	1	ALUMINUM FLAT	32	18	2545	55	74.9	636	0.10	5.6	180	160.1	2.2	0.5	DAIKIN	5WB1201A	-
RHC-C1001-4	SAV-C1001-4	C1001 - OPEN LAB	55.5	1	ALUMINUM FLAT	32	18	2545	55	74.9	636	0.10	5.6	180	160.1	2.2	0.5	DAIKIN	5WB1201A	-
RHC-C1001B	SAV-C1001B	C1001B - CELL CULTURE	21.7	1	ALUMINUM FLAT	18	12	1000	55	74.9	667	0.11	2.2	180	160.1	2.6	0.6	DAIKIN	5BB1201A	-
RHC-C1001C	SAV-C1001C	C1001C - SUPPORT	3.0	1	ALUMINUM FLAT	6	6	135	55	75.4	540	0.07	0.3	180	159.6	0.4	0.1	DAIKIN	5BS1101A	-
RHC-C1001CA	SAV-C1001CA	C1001CA - SUPPORT	3.1	1	ALUMINUM FLAT	6	6	140	55	75.2	560	0.08	0.3	180	159.8	0.4	0.1	DAIKIN	5BS1101A	-
RHC-C1001D	SAV-C1001D	C1001D - MICRO	6.0	1	ALUMINUM FLAT	10	6	270	55	75.2	648	0.09	0.6	180	159.8	0.7	0.1	DAIKIN	5BS0901A	-
RHC-C1001F	SAV-C1001F	C1001F - STORAGE	4.5	1	ALUMINUM FLAT	8	6	200	55	75.6	600	0.08	0.4	180	159.4	0.5	0.1	DAIKIN	5BS1001A	-
RHC-C1001G	SAV-C1001G	C1001G - SUPPORT	6.0	1	ALUMINUM FLAT	10	6	270	55	75.2	648	0.09	0.6	180	159.8	0.7	0.1	DAIKIN	5BS0901A	-
RHC-C1001H	SAV-C1001H	C1001H - CELL CULTURE	21.7	1	ALUMINUM FLAT	18	12	1000	55	74.9	667	0.11	2.2	180	160.1	2.6	0.6	DAIKIN	5BB1201A	-
RHC-C1001NA	SAV-C1001NA	C1001NA - MICRO	5.2	1	ALUMINUM FLAT	8	6	230	55	75.5	690	0.11	0.5	180	159.5	0.6	0.1	DAIKIN	5BS1101A	-
RHC-C1001P	SAV-C1001P	C1001P - CELL CULTURE	21.7	1	ALUMINUM FLAT	18	12	1000	55	74.9	667	0.11	2.2	180	160.1	2.6	0.6	DAIKIN	5BB1201A	-
RHC-C1001Q	SAV-C1001Q	C1001Q - SUPPORT	3.2	1	ALUMINUM FLAT	6	6	145	55	75	580	0.08	0.3	180	160	0.4	0.1	DAIKIN	5BS1101A	-
RHC-C1001QA	SAV-C1001QA	C1001QA - SUPPORT	3.6	1	ALUMINUM FLAT	6	6	165	55	74.8	660	0.11	0.4	180	160.2	0.4	0.1	DAIKIN	5BS1201A	-
RHC-C1001S	SAV-C1001S	C1001S - CELL CULTURE	21.7	1	ALUMINUM FLAT	18	12	1000	55	74.9	667	0.11	2.2	180	160.1	2.6	0.6	DAIKIN	5BB1201A	-
RHC-C1001T	SAV-C1001T	C1001T - MICRO	6.8	1	ALUMINUM FLAT	12	6	310	55	75.1	620	0.08	0.7	180	159.9	0.8	0.1	DAIKIN	5BS0801A	-
RHC-C1001U	SAV-C1001U	C1001U - SUPPORT	8.1	1	ALUMINUM FLAT	14	6	360	55	75.7	617	0.08	0.8	180	159.3	0.9	0.1	DAIKIN	5BS0801A	-
RHC-C1001VA	SAV-C1001VA	C1001VA - SUPPORT	4.4	1	ALUMINUM FLAT	8	6	195	55	75.7	585	0.08	0.4	180	159.3	0.5	0.1	DAIKIN	5BS1001A	-
RHC-C1001VB	SAV-C1001VB	C1001VB - MICRO	4.4	1	ALUMINUM FLAT	8	6	195	55	75.7	585	0.08	0.4	180	159.3	0.5	0.1	DAIKIN	5BS1001A	-
RHC-C1001X	SAV-C1001X	C1001X - MICRO	3.2	1	ALUMINUM FLAT	6	6	150	55	74.8	600	0.09	0.3	180	160.2	0.4	0.1	DAIKIN	5BS1101A	-

NOTES:
1. CORNELL STANDARDS FOR HOT WATER COILS:
ARRANGEMENT: AIR-WATER COUNTER FLOW; TUBING & BENDS: 5/8" OD, 0.035" COPPER; FIN SPACING: 10 FPI MAX; CASINGS AND FRAMES: 304 STAINLESS STEEL; HEADERS: NON-FERROUS; CONNECTIONS: NON-FERROUS. GROOVED CONNECTIONS ARE NOT ACCEPTABLE.

EXHAUST AIR VALVE SCHEDULE

TAG	ROOMS SERVED	SIZE	AIR FLOW				PRESSURE DROP	HOUSING	MANUFACTURER	MODEL	NOTES
			OPERATING RANGE		DESIGN RANGE						
			MAX	MIN	MAX (OCC)	MIN (UNOCC)					
		(IN)	CFM	CFM	CFM	CFM	IN WC				
GEV-C1001-1	C1001 - OPEN LAB	14"	2750	250	1860	135	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001-2	C1001 - OPEN LAB	14"	2750	250	1860	135	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001-3	C1001 - OPEN LAB	14"	2750	250	1860	130	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001-4	C1001 - OPEN LAB	14"	2750	250	1860	130	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
FEV-C1001E	C1001E - FH ALCOVE	10"	1300	120	630	0	0.2	STAINLESS STEEL	ACCUTROL	AVC6000	1
FEV-C1001J-1	C1001J - FH ALCOVE	10"	1300	120	630	0	0.2	STAINLESS STEEL	ACCUTROL	AVC6001	1
FEV-C1001J-2	C1001J - FH ALCOVE	10"	1300	120	630	0	0.2	STAINLESS STEEL	ACCUTROL	AVC6000	1
FEV-C1001W	C1001W - FH ALCOVE	10"	1300	120	630	0	0.2	STAINLESS STEEL	ACCUTROL	AVC6000	1
GEV-C1001A	C1001A - EQUIPMENT	10"	1300	120	725	0	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001R	C1001R - EQUIPMENT	8"	800	80	500	0	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001V	C1001V - EQUIPMENT	10"	1300	120	675	0	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001K	C1001K - SUPPORT	6"	315	30	145	0	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001N	C1001N - STORAGE	6"	315	30	55	55	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001B	C1001B - CELL CULTURE	12"	1790	180	900	900	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001C	C1001C - SUPPORT	6"	315	30	135	50	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001CA	C1001CA - SUPPORT	8"	800	80	240	100	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001D	C1001D - MICRO	8"	800	80	370	100	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001F	C1001F - STORAGE	8"	800	80	300	155	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001G	C1001G - SUPPORT	8"	800	80	370	100	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001H	C1001H - CELL CULTURE	12"	1790	180	900	900	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001L	C1001L - COLD ROOM	6"	315	30	115	60	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001M	C1001M - CLOSET	6"	315	30	100	100	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001NA	C1001NA - MICRO	8"	800	80	330	100	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001P	C1001P - CELL CULTURE	12"	1790	180	900	900	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001Q	C1001Q - SUPPORT	6"	315	30	155	100	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001QA	C1001QA - SUPPORT	8"	800	80	265	100	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001S	C1001S - CELL CULTURE	12"	1790	180	900	900	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001T	C1001T - MICRO	8"	800	80	410	125	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001U	C1001U - SUPPORT	8"	800	80	460	125	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001VA	C1001VA - SUPPORT	8"	800	80	295	100	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001VB	C1001VB - MICRO	8"	800	80	295	100	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1
GEV-C1001X	C1001X - MICRO	8"	800	80	250	100	0.2	GALVANIZED STEEL	ACCUTROL	AVC6000	1

NOTES:
1. PROVIDE ALL LAB AIR VALVES WITH TIGH SHUT OFF (-S-), WIRELESS BLUETOOTH CONFIGURATION (W-), AND HIGH SPEED FAIL OPEN/CLOSE (-05)

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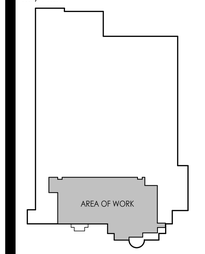
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SUCF#: 191030

Project No.:225306010

MECHANICAL SCHEDULES

Scale:
Revision:**0**
Drawing No. **M602**

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ORIGINAL SHEET - ARCH E1

GENERAL NOTES

1. EXISTING SPACE AIRFLOW BALANCES ARE REPRESENTED BASED ON 10/26/1998 "ANIMAL HOLDING AND AQUATICS FACILITIES AIR BALANCE PLAN" PROVIDED UNDER THE 1164 VET MED CENTER BL-3 FACILITY LABORATORY RENOVATION PROJECT.
2. PRE-CONSTRUCTION EXISTING CONDITION AIRFLOW READINGS ARE REQUIRED TO BE PERFORMED TO VERIFY AIRFLOWS SHOWN ON THIS SHEET AND DOCUMENT SUPPLY, EXHAUST, AND RETURN AIRFLOWS TO CONFIRM THAT SPACES OUTSIDE THE SCOPE OF WORK ARE RETURNED TO MEASURED CONDITIONS FOLLOWING RENOVATION WORK.

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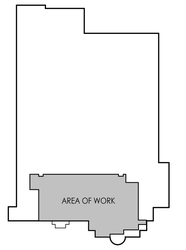
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AIRFLOW SCHEMATIC

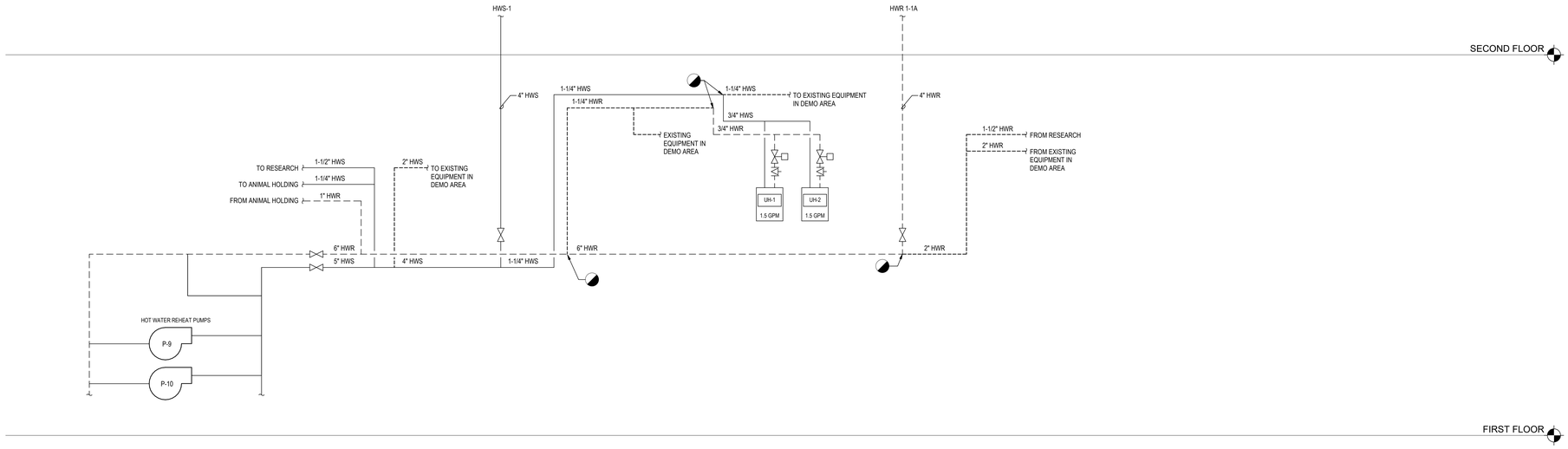
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Drawing No. **M700**

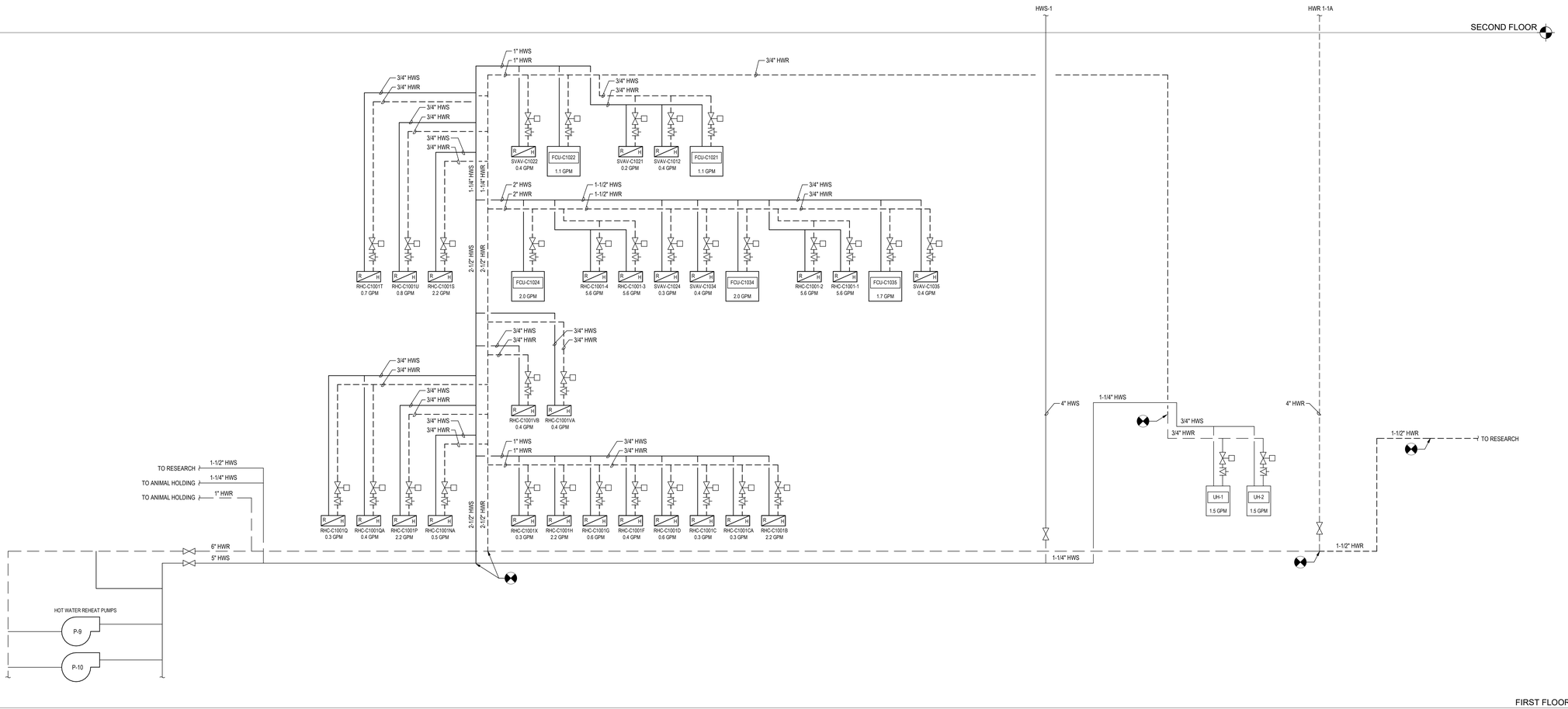
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ORIGINAL SHEET - ARCH E1



1 M701 HEATING HOT WATER DEMOLITION SCHEMATIC

N.T.S.



2 M701 HEATING HOT WATER NEW WORK SCHEMATIC

N.T.S.

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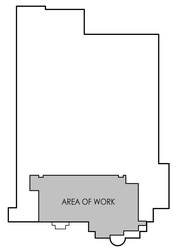
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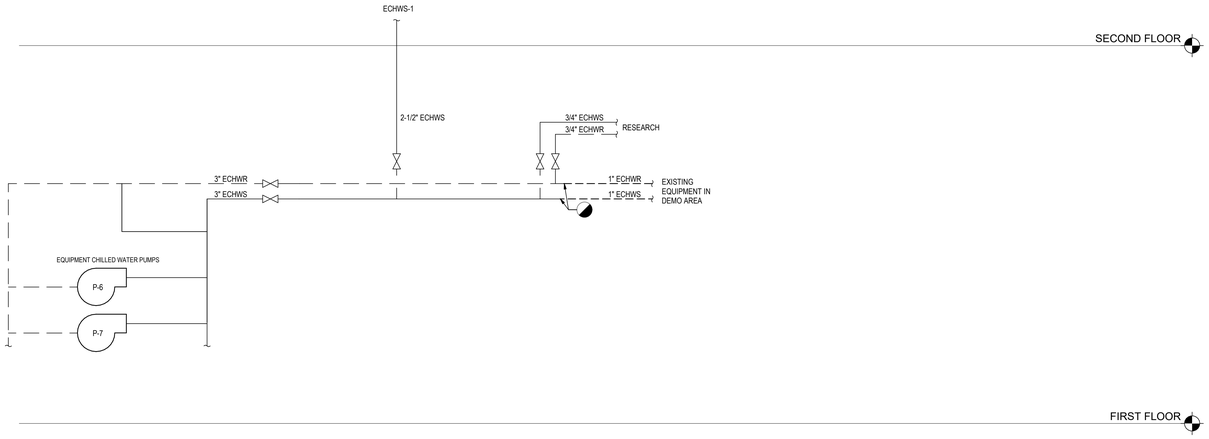
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HEATING HOT WATER PIPING SCHEMATIC

Scale: N.T.S.
Revision: **0**
Drawing No. **M701**

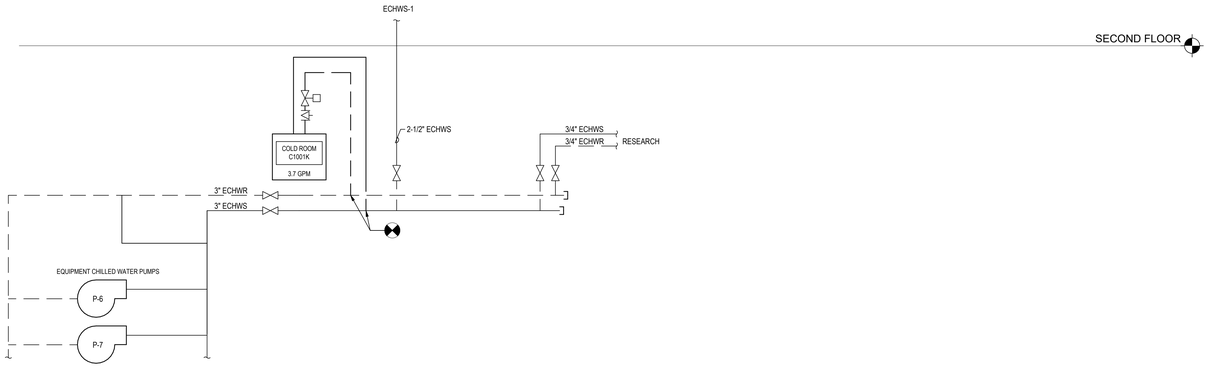
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ORIGINAL SHEET - ARCH E1



1 EQUIPMENT CHILLED WATER DEMOLITION

M702 N.T.S.



2 EQUIPMENT CHILLED WATER NEW WORK SCHEMATIC

M702 N.T.S.

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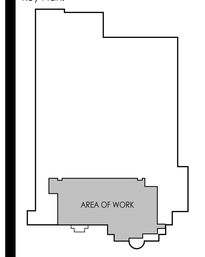
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EQUIPMENT CHILLED WATER PIPING SCHEMATIC

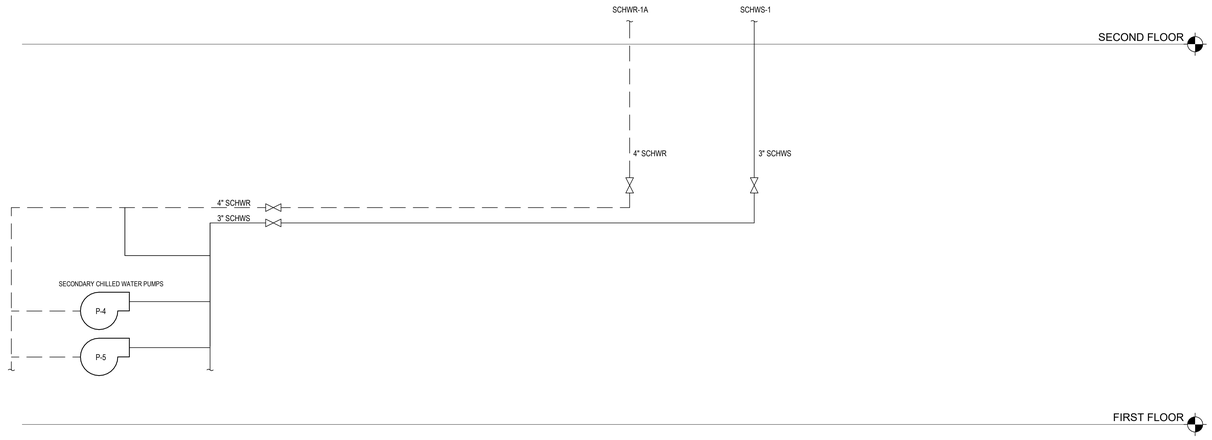
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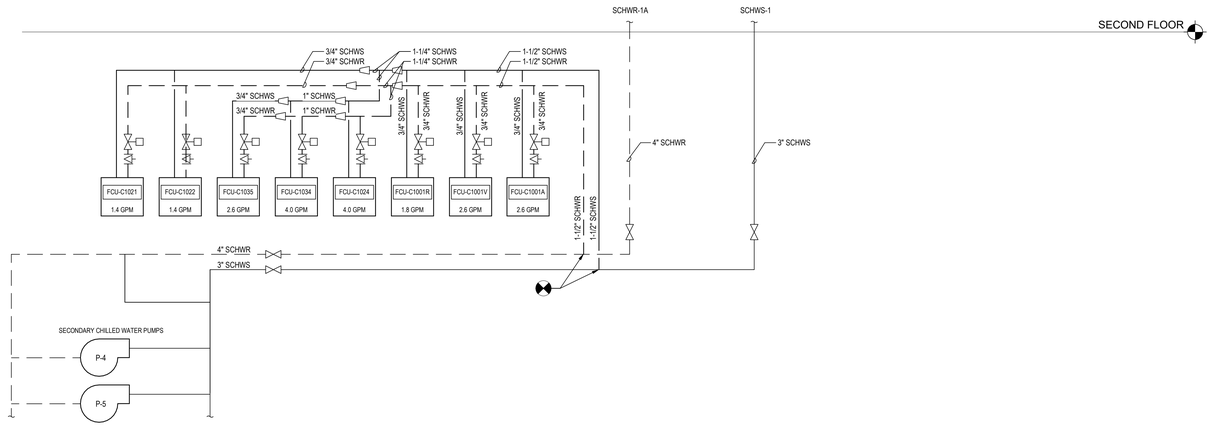
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ORIGINAL SHEET - ARCH E1



1 EXISTING SECONDARY CHILLED WATER SCHEMATIC

M703 N.T.S.



2 SECONDARY CHILLED WATER NEW WORK SCHEMATIC

M703 N.T.S.

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SECONDARY CHILLED WATER PIPING SCHEMATIC

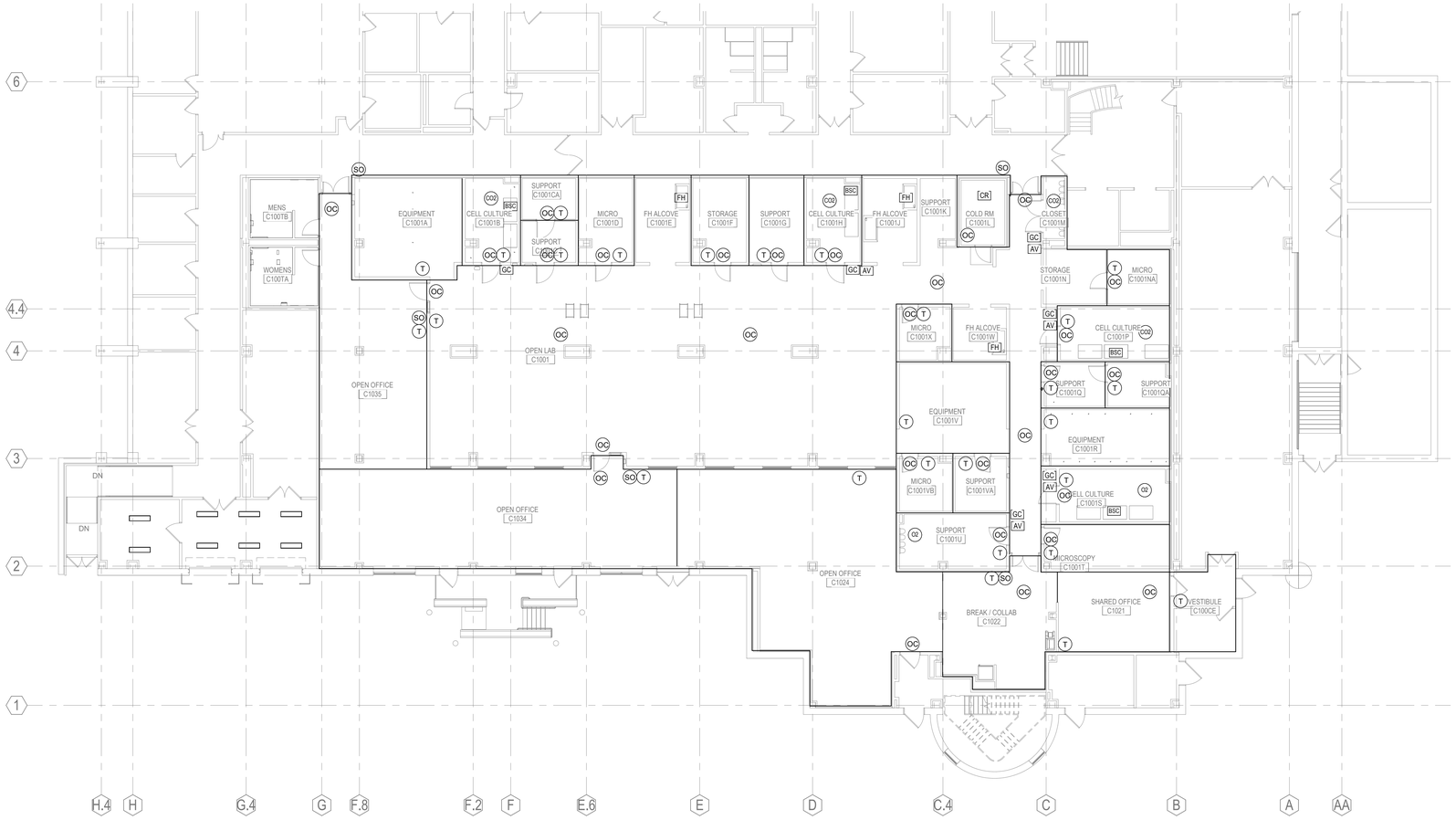
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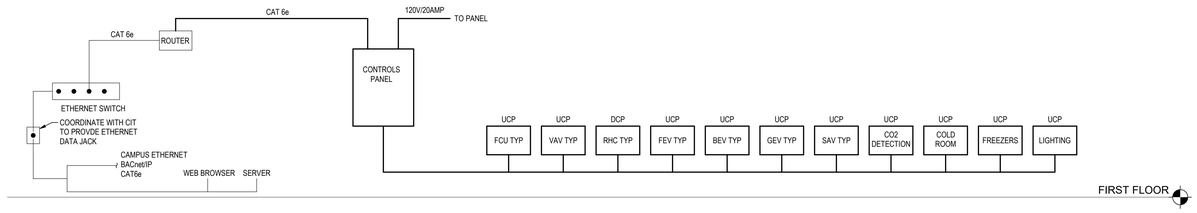
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ORIGINAL SHEET - ARCH E1



1 CONTROLS ZONING AND DEVICE PLAN

M800 N.T.S.



2 CONTROLS ARCHITECTURE

M800 N.T.S.

CONTROLS GENERAL NOTES

1. THE DESIGN INTENT IS FOR THE NEW CONTROL DEVICES AND SYSTEM TO INTEGRATE INTO THE EXISTING LOGICAL CONTOL SOLUTIONS BUILDING AUTOMATION SYSTEM.
2. ALL NEW CONTROLLERS SHALL BE PROVIDED WITH A BACNET COMPLIANT COMMUNICATION CARD. REFER TO THE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
3. THE CONTROL SYSTEM ARCHITECTURE SHOWN IS DIAGRAMMATIC. IT IS NOT INTENDED TO DICTATE THE ACTUAL ARCHITECTURE OF THE SYSTEMS, NOR DOES IT SHOW ALL ITEMS REQUIRED. ITS SOLE PURPOSE IS TO PROVIDE A STARTING POINT FOR THE HVAC CONTROLS SUPPLIER WHEN DEVELOPING SUBMITTAL DIAGRAMS FOR THE PROJECT.
4. SYSTEM ARCHITECTURE SHALL BE DESIGNED TO ACCOMMODATE FUTURE SPARE POINTS AS SPECIFIED.
5. PROVIDE ACTIVE HUBS AND SWITCHES AS REQUIRED FOR A FUNCTIONAL NETWORK.
6. ALL ACTUATORS SHALL BE ELECTRIC ACTUATORS UNLESS NOTED OTHERWISE.
7. ALL LIFE SAFETY CONTROL SYSTEMS SHALL BE ON EMERGENCY POWER.
8. LEAVING AIR TEMPERATURE SENSORS SHALL BE LOCATED FAR ENOUGH DOWNSTREAM OF THE COIL TO PROVIDE AN ACCURATE VALUE OF THE AIR TEMPERATURE FOR NON AVERAGING TYPE SENSORS.
9. THE CONTROLS CONTRACTOR IS RESPONSIBLE FOR POWERING ALL CONTROL PANELS AND SENSORS / END DEVICES. REFER TO THE ELECTRICAL DRAWINGS FOR THE DESIGNATED ELECTRICAL CIRCUITS THAT SHOULD BE USED BY THE CONTROLS CONTRACTOR. THE CONTROLS CONTRACTOR WILL BE RESPONSIBLE FOR ALL STEP DOWN TRANSFORMERS AND THE 120V WIRING AS REQUIRED. ALL POWER SHALL COME FROM STANDBY CIRCUITS.
10. ALL CONTROL POINTS REQUIRED FOR THE SEQUENCES TO BE EXECUTED SHALL BE HARD WIRED TO THE CORRESPONDING CONTROLLER SO THAT THE SEQUENCES CAN STILL OPERATE WITH THE BUILDING CONTROLS LAN NOT WORKING.
11. ALL SAFETIES SHALL BE HARD WIRED AS SHOWN ON THE CONTROLS DIAGRAM.
12. THE CONTROLS CONTRACTOR SHALL SEND AN RFI TO THE OWNER DURING START-UP FOR THE OWNER TO VERIFY OR PROVIDE UPDATED SETPOINTS FOR THE SCHEDULES.
13. ALL CONTROL SEQUENCES SHALL UTILIZE DEAD BANDS TO ALLOW FOR STABLE CONTROL.
14. ALL PROVIDED OR INSTALLED EQUIPMENT SHALL ADHERE TO THE CURRENT CORNELL UNIVERSITY DESIGN STANDARDS.
15. INSTALL THERMOSTATS AT 43" ABOVE FINISHED FLOOR, ALIGNED WITH CENTERLINE OF LIGHT SWITCH. COORDINATE PLACEMENT WITH OTHER WALL MOUNTED DEVICES.

CONTROLS LEGEND

DI	DIGITAL INPUT	NIP	NETWORK INTERFACE PANEL
DO	DIGITAL OUTPUT		
AI	ANALOG INPUT	UCP	UNITARY CONTROL PANEL
AO	ANALOG OUTPUT		
— — —	EXISTING NEW BY CONTRACTOR	DCP	DIGITAL CONTROL PANEL WHICH IS A PROGRAMMABLE LOGIC CONTROLLER
T	TEMPERATURE SENSOR		
SO	EMERGENCY SHUTOFF BUTTON		
CO2	CO2 SENSOR		
O2	O2 SENSOR		
-80	-80 FREEZER CONNECTION		
OC	OCCUPANCY SENSOR		
GC	GAS DETECTION SYSTEM CONTROLLER		
AV	AUDIO/VISUAL GAS SENSOR ALARM		
FH	FUME HOOD		
BSC	BIOSAFETY CABINET		
CR	COLD ROOM		

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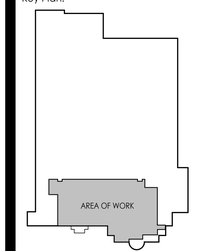
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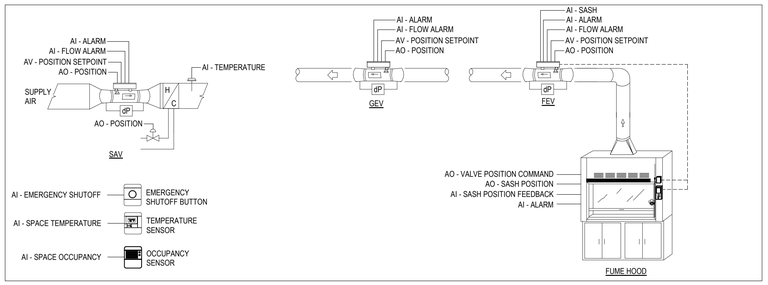
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CONTROLS LEAD SHEET

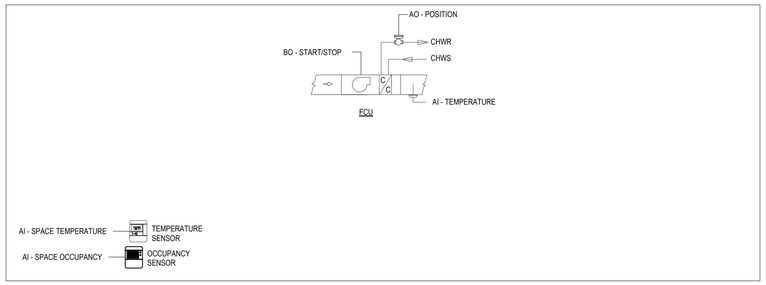
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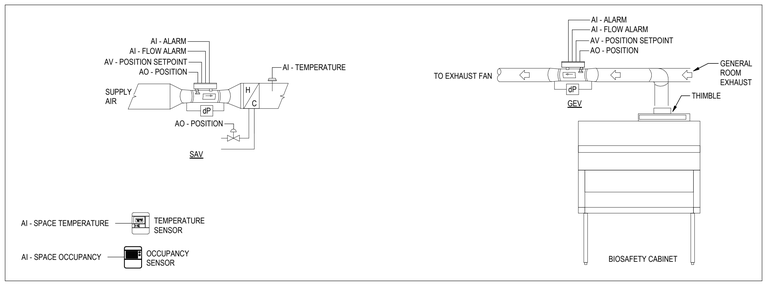
ORIGINAL SHEET - ARCH E1



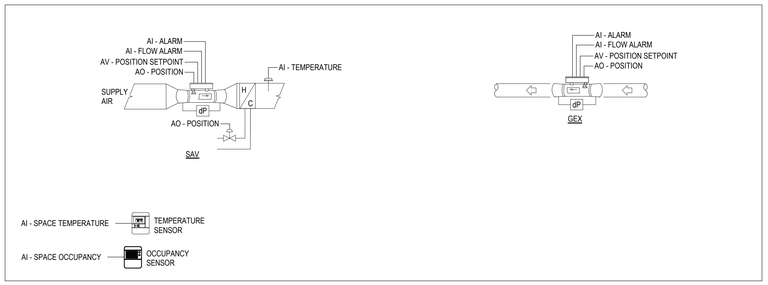
OPEN LABORATORIES WITH FUME HOOD ALCOVES AND EQUIPMENT ROOMS



ROOMS WITH SUPPLEMENTAL COOLING



CELL CULTURE ROOMS



ENCLOSED LABORATORY ROOMS

CONTROL POINT	HARDWARE POINTS				SOFTWARE POINTS							SHOW ON GRAPHIC	NOTES
									ALARM				
	BI	BO	AI	AO	AV	BV	SCH	TREND	BACS	EMCS	DESCRIPTION		
VENTILATION SYSTEM EMERGECNY SHUTOFF	X												
TOTAL EXHAUST AIRFLOW (CFM)					X			X				X	
TOTAL EXHAUST AIR SETPOINT (CFM)					X			X				X	
LABORATORY AIR CHANGE RATE (ACPH)					X			X				X	
FLOW OFFSET SETPOINT (CFM)					X							X	
FUME HOOD EXHAUST AIR VALVE POSITION COMMAND (CFM)				X								X	
FUME HOOD EXHAUST VALVE FLOW FEEDBACK (CFM)			X					X				X	
FUME HOOD EXHAUST AIR VALVE STATUS			X						XX		VALVE COMMAND ≠ FEEDBACK (JAM) LOW DIFFERENTIAL PRESSURE (VIA SWITCH)	X	TRI-STATE ALARM
FUME HOOD SASH POSITION			X					X	X		SASH OPEN (18") FOR 24 CONTINUOUS HOURS OR MORE	X	
SUPPLY AIR VALVE FLOW FEEDBACK (CFM)			X					X				X	
SUPPLY AIR VALVE STATUS			X						X XX		10% FLOW DEVIATION FROM SETPOINT VALVE COMMAND ≠ FEEDBACK (JAM) LOW DIFFERENTIAL PRESSURE (VIA SWITCH)	X	TRI-STATE ALARM
SUPPLY AIR VALVE POSITION COMMAND (CFM)				X				X				X	
SUPPLY AIR VALVE MINIMUM AIRFLOW SETPOINT (CFM)					X		X					X	
SUPPLY AIR VALVE MAXIMUM AIRFLOW SETPOINT (CFM)					X							X	
RE-HEAT COIL LEAVING AIR TEMPERATURE			X					X				X	SINGLE POINT SENSOR
RE-HEAT COIL VALVE POSITION COMMAND (%)				X				X	X		5 °F ΔT ACROSS COIL WITH VALVE COMMANDED CLOSED	X	FAIL LAST
SPACE TEMPERATURE SETPOINT, HEATING					X		X	X				X	
SPACE TEMPERATURE SETPOINT, COOLING					X		X	X				X	
SPACE TEMPERATURE			X					X	X			X	
SPACE OCCUPANCY SENSOR	X						X	X				X	
GENERAL EXHAUST AIR VALVE POSITION COMMAND (CFM)				X				X				X	
GENERAL EXHAUST AIR VALVE MINIMUM AIRFLOW SETPOINT (CFM)					X							X	
GENERAL EXHAUST AIR VALVE MAXIMUM AIRFLOW SETPOINT (CFM)					X							X	
GENERAL EXHAUST AIR VALVE FLOW FEEDBACK (CFM)			X					X				X	
GENERAL EXHAUST AIR VALVE STATUS			X						XX X		10% FLOW DEVIATION FROM SETPOINT VALVE COMMAND ≠ FEEDBACK (JAM) LOW DIFFERENTIAL PRESSURE (VIA SWITCH)	X	TRI-STATE ALARM
FAN COIL UNIT FAN MOTOR START/STOP		X						X				X	
FCU COIL HEATING COIL CONTROL VALVE POSITION COMMAND (%)				X				X				X	FAIL LAST
FCU COIL COOLING COIL CONTROL VALVE POSITION COMMAND (%)				X				X				X	NORMALLY CLOSED
FCU SUPPLY DISCHARGE AIR TEMPERATURE			X					X	X		+/- 4 °F FROM SETPOINT	X	AVERAGING SENSOR
FCU SUPPLY DISCHARGE AIR TEMPERATURE SETPOINT					X			X				X	
FCU CONDENSATE DRAIN PAN OVERFLOW SWITCH	X										IF YES	X	

SEQUENCE OF OPERATIONS

SYSTEM DESCRIPTION: OPEN LABORATORIES
SUPPLY AIR VALVES
GENERAL EXHAUST AIR VALVES
FUME HOOD EXHAUST AIR VALVES
REHEAT COILS
FUME HOODS

SYSTEM DESCRIPTION: EQUIPMENT ROOMS
TWO PIPE FAN COIL UNITS (COOLING ONLY)
GENERAL EXHAUST AIR VALVES
FREEZERS

SYSTEM DESCRIPTION: CELL CULTURE ROOM
SUPPLY AIR VALVES
GENERAL EXHAUST AIR VALVES

SYSTEM DESCRIPTION: COLD ROOMS
SUPPLY AIR VALVE
EXHAUST AIR VALVE
ENVIRONMENTAL ROOM

GENERAL

SYSTEM SHALL BE CONTROLLED THROUGH THE BUILDING AUTOMATION AND CONTROL SYSTEM (BACS). ALL SETPOINTS SHALL BE ADJUSTABLE. THE BACS SHALL BE CAPABLE OF RETAINING ITS PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR AT LEAST TEN HOURS.

LABORATORY AIR CHANGE RATES ARE BASED ON TOTAL EXHAUST AIR FLOW FROM THE SPACE. EACH INDIVIDUAL ZONE SHALL HAVE THEIR AIR CHANGE RATE CALCULATED AND DISPLAYED.

MINIMUM LABORATORY OCCUPANCY INDEX TIME: 30 MINUTES
ZONE OCCUPANCY SCHEDULE: 6 AM TO 8 PM, MON-FRI (ADJ.).

OCCUPANCY SENSORS CONTROLLING SPACE AIR CHANGE RATES AND SPACE TEMPERATURE SETPOINTS TO BE PURCHASED AND INSTALLED BY CONTROLS CONTRACTOR.

TEMPERATURE SETPOINTS (ADJ.)

SPACE COOLING TEMPERATURE SETPOINTS:
OCCUPIED: 75 °F +/- 1.5°F
OCCUPIED SETBACK: 75 °F + 3 °F
UNOCCUPIED: 75 °F + 6 °F

SPACE HEATING TEMPERATURE SETPOINTS:
OCCUPIED: 70 °F +/- 1.5 ° F
OCCUPIED SETBACK: 70 °F - 3 °F
UNOCCUPIED: 70 °F - 6 ° F

SPACE TEMPERATURE SETPOINTS SHALL BE CONTROLLED BY THE ZONE OCCUPANCY SCHEDULE AND LABORATORY OCCUPANCY SENSORS BASED UPON MINIMUM LABORATORY OCCUPANCY INDEX TIME.

PER 2025 NYSECC, INITIAL CONFIGURED DEADBAND BETWEEN HEATING AND COOLING SETPOINTS SHALL BE NOT LESS THAN 5DF. MINIMUM DEADBAND SHALL BE NOT LESS THAN 1DF WHEN SETPOINTS ARE ADJUSTED.

PER 2025 NYSECC, SETPOINT ADJUSTMENT SHALL BE INDEPENDENT FOR THE HEATING SETPOINT AND COOLING SETPOINT; WHEN ONE SETPOINT IS CHANGED, THE OTHER SHALL NOT CHANGE EXCEPT AS NEEDED TO MAINTAIN THE MINIMUM DEADBAND. FOR THERMOSTATIC CONTROLS THAT DISPLAY SETPOINTS, BOTH THE HEATING AND COOLING SETPOINTS SHALL BE DISPLAYED SIMULTANEOUSLY, OR THE SETPOINT OF THE CURRENTLY ACTIVE MODE (HEATING OR COOLING) SHALL BE DISPLAYED WITH AN INDICATION OF THAT MODE.

PER 2025 NYSECC, THERMOSTATIC SETBACK CONTROLS SHALL BE CONFIGURED TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURES DOWN TO 55DF OR UP TO 85DF.

PER 2025 NYSECC, AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROLS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR NOT FEWER THAN 10 HOURS. THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS; A MANUALLY OPERATED TIMER CONFIGURED TO OPERATE THE SYSTEM FOR UP TO 2 HOURS; OR AN OCCUPANCY SENSOR.

PER 2025 NYSECC, OPTIMUM START AND STOP CONTROLS SHALL BE PROVIDED FOR EACH HEATING AND COOLING SYSTEM WITH DIRECT CONTROL OF INDIVIDUAL ZONES. THE OPTIMUM START CONTROLS SHALL BE CONFIGURED TO AUTOMATICALLY ADJUST THE DAILY START TIME OF THE HEATING AND COOLING SYSTEM IN ORDER TO BRING EACH SPACE TO THE DESIRED OCCUPIED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED OCCUPANCY. THE OPTIMUM STOP CONTROLS SHALL BE CONFIGURED TO REDUCE THE HEATING AND COOLING SYSTEMS HEATING TEMPERATURE SETPOINT AND INCREASE THE COOLING TEMPERATURE SETPOINT BY NOT LESS THAN 2DF BEFORE THE SCHEDULED UNOCCUPIED PERIODS BASED ON THE THERMAL LAG AND ACCEPTABLE DRIFT IN SPACE TEMPERATURE THAT IS WITHIN COMFORT LIMITS.

LABORATORY AIRFLOW CONTROL

AIR VALVE POSITIONS SHALL BE BASED ON MODE. UNDER NORMAL CONTROL, ROOM OCCUPANCY SHALL BE DETERMINED VIA ROOM OCCUPANCY SENSORS. IF THE LABORATORY IS UNOCCUPIED, THE ROOM SHALL BE PLACED IN UNOCCUPIED MODE BY THE BACS. WHEN THE ROOM IS OCCUPIED, THE BACS SHALL SEND AN OCCUPIED COMMAND TO THE FUME HOOD EXHAUST AIR VALVE. THE FUME HOOD MONITOR SHALL INDEX THE FUME HOOD EXHAUST AIR VALVE AS NEEDED TO MAINTAIN THE 100 FPM FACE VELOCITY SETPOINT BASED ON THE SASH POSITION. THE GENERAL EXHAUST AIR VALVE SHALL MODULATE AS NEEDED TO MAINTAIN THE OCCUPIED AIR CHANGE RATE. THE SUPPLY AIR VALVE SHALL MODULATE AS NEEDED TO MAINTAIN THE SPECIFIED AIRFLOW DIFFERENTIAL.

WHEN THE ROOM IS UNOCCUPIED, AND THE SASH IS AT OR BELOW 18-INCHES, THE BACS SHALL SEND A SASH CLOSED COMMAND TO THE FUME HOOD EXHAUST AIR VALVE. THE FUME HOOD MONITOR SHALL INDEX THE FUME HOOD EXHAUST AIR VALVE AS NEEDED TO MAINTAIN THE 65 FPM FACE VELOCITY SETPOINT BASED ON THE SASH POSITION. THE GENERAL EXHAUST AIR VALVE SHALL MODULATE AS NEEDED TO MAINTAIN THE UNOCCUPIED AIR CHANGE RATE. THE SUPPLY AIR VALVE SHALL MODULATE AS NEEDED TO MAINTAIN THE SPECIFIED AIRFLOW DIFFERENTIAL.

WHEN THE ROOM IS UNOCCUPIED AND THE SASH IS ABOVE 18-INCHES, THE BACS SHALL SEND A SASH OPEN COMMAND TO THE FUME HOOD EXHAUST AIR VALVE. THE FUME HOOD MONITOR SHALL INDEX THE FUME HOOD EXHAUST AIR VALVE TO MAINTAIN THE OCCUPIED SASH OPEN AIRFLOW SETPOINT. THE GENERAL EXHAUST AIR VALVE SHALL MODULATE AS NEEDED TO MAINTAIN THE UNOCCUPIED AIR CHANGE RATE. THE SUPPLY AIR VALVE SHALL MODULATE AS REQUIRED TO MAINTAIN THE SPECIFIED AIRFLOW DIFFERENTIAL.

FUME HOODS

THE FUME HOOD SHALL BE EQUIPPED WITH A FUME HOOD MONITOR AND SASH POSITION INDICATOR, PROVIDED BY FUME HOOD VENDOR.

FUME HOOD EXHAUST AIRFLOW RATE: NOT CONTROLLED BY BACS. VALVE IS CONTROLLED BY FUME HOOD MONITOR TO MAINTAIN FACE VELOCITY SETPOINT - 100 FPM (ADJ.).

THE MONITOR SHALL ADJUST THE FUME HOOD EXHAUST VALVE TO MAINTAIN THE FACE VELOCITY SETPOINT.

THE MONITOR SHALL, AS A MINIMUM, HAVE THE FOLLOWING CAPABILITIES:
- SASH POSITION INPUT TO BAS
- STANDBY MODE INPUT TO BAS TO ALLOW ADJUSTMENT OF FACE VELOCITY.

CELL CULTURE ROOMS WITH BIOSAFETY CABINETS

CELL CULTURE ROOMS SHALL BE CONSTANT AIRFLOW. GENERAL EXHAUST AIR VALVE WILL EXHAUST AIR AT A CONSTANT RATE FROM THE THIMBLE CONNECTION TO BSC AS WELL AS THE LOW WALL EXHAUST GRILLE ADJACENT TO INCUBATOR, REGARDLESS OF BSC OPERATION MODE. SUPPLY AIR VALVE SHALL TRACK GENERAL EXHAUST AIR VALVE TO MAINTAIN THE SPECIFIED AIRFLOW DIFFERENTIAL.

ZONE TEMPERATURE CONTROL

HEATING: IF THE SPACE TEMPERATURE FALLS BELOW THE SPACE HEATING TEMPERATURE SETPOINT, THE REHEAT CONTROL VALVE SHALL MODULATE TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. WHEN THE SPACE TEMPERATURE IS AT SETPOINT THE REHEAT COIL CONTROL VALVES SHALL BE CLOSED.

COOLING: IF THE SPACE TEMPERATURE RISES ABOVE THE SPACE COOLING TEMPERATURE SETPOINT, THE SUPPLY AIR VALVE SHALL MODULATE TO THE MAXIMUM AIRFLOW RATE TO MAINTAIN THE SPACE TEMPERATURE SETPOINT.

DEADBAND: WHILE THE SPACE TEMPERATURE IS BETWEEN HEATING SETPOINT (70DF ADJ.) AND COOLING SETPOINT (75DF ADJ.), THE REHEAT COIL CONTROL VALVES SHALL BE CLOSED AND THE SUPPLY AIR VALVE SHALL PROVIDE THE AIRFLOW REQUIRED FOR VENTILATION ONLY BASED ON THE OCCUPANCY STATUS OF THE SPACE. PER NYSECC.

OCCUPANCY CONTROL
TEMPERATURE SETPOINTS SHALL BE DETERMINED BASED ON A COMBINATION OF PROGRAMMED SCHEDULE AND SPACE OCCUPANCY SENSORS.

IF THE SPACE BECOMES OCCUPIED DURING THE SCHEDULED UNOCCUPIED PERIOD, AS SENSED BY ROOM OCCUPANCY SENSORS, THE SPACE SHALL INDEX TO OCCUPIED MODE FOR THE DURATION OF OCCUPANCY. WHEN THE SPACE BECOMES UNOCCUPIED AGAIN DURING THE SCHEDULED UNOCCUPIED PERIOD, THE SPACE SHALL INDEX BACK TO UNOCCUPIED MODE.

SUPPLEMENTAL COOLING
IF THE SPACE TEMPERATURE RISES ABOVE THE COOLING TEMPERATURE SETPOINT, THE FAN COIL UNIT FAN SHALL START, AND THE COOLING COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN SETPOINT. WHEN THE SPACE TEMPERATURE IS AT SETPOINT, THE FAN COIL UNIT SHALL SHUT OFF AND THE CHILLED WATER CONTROL VALVE SHALL CLOSE.

VENTILATION SYSTEM EMERGENCY SHUTOFF
UPON INDICATION FROM ANY VENTILATION SYSTEM EMERGENCY SHUTOFF BUTTON, THE AIR VALVE SHALL MODULATE TO A CLOSED POSITION.

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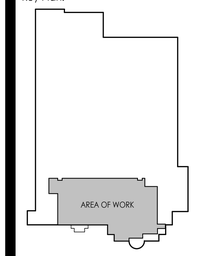
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2026/10/19

Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

CONTROLS SCHEMATICS

Scale: N.T.S.
Revision: **0**
Drawing No. **M801**

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ORIGINAL SHEET - ARCH E1

GENERAL

SYSTEM SHALL BE CONTROLLED THROUGH THE BUILDING AUTOMATION AND CONTROL SYSTEM (BACS).

OXYGEN MONITORING SYSTEM FOR SPACES WITH LIQUID NITROGEN DEWARS AND OXYGEN DISPLACING GAS CYLINDERS.

UPON OXYGEN LEVEL REACHING THE LOW LIMIT OF 19.5% (ADJ), THE LOCAL AUDIO AND VISUAL ALARMS SHALL BE ACTIVATED. A CRITICAL ALARM SHALL BE SENT TO THE CENTRAL BACS SYSTEM. THE ALARM SHALL ALSO ACTIVATE THE A/V ALARM MOUNTED OUTSIDE THE SPACE BEING MONITORED.

CO2 MONITORING SYSTEM FOR SPACES WITH CO2 GAS CYLINDERS OR DISPENSING OF CO2 GAS.

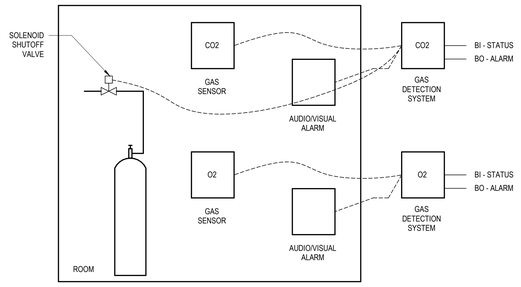
UPON CO2 LEVEL REACHING THE HIGH LIMIT, THE LOCAL AUDIO AND VISUAL ALARMS SHALL BE ACTIVATED, THE SOLENOID SHUTOFF VALVE SHALL BE CLOSED AND A CRITICAL ALARM SHALL BE SENT TO THE CENTRAL BACS SYSTEM. THE ALARM SHALL ALSO ACTIVATE THE A/V ALARM MOUNTED OUTSIDE THE SPACE BEING MONITORED.

ALARMS

REFER TO POINTS LIST.

DEVICE COUNT

REFER TO CONTROLS PLAN ON M800 FOR DEVICE COUNTS.



GAS DETECTION	HARDWARE POINTS				SOFTWARE POINTS							SHOW ON GRAPHIC	NOTES
	BI	BO	AI	AO	AV	BV	SCH	TREND	ALARM				
									BACS	EMCS	DESCRIPTION		
ROOM X GAS DETECTION	X	X						X	X		GENERAL ALARM	X	ALARM TRIGGERS A/V DEVICE OUTSIDE...

1 M802 GAS DETECTION SYSTEMS

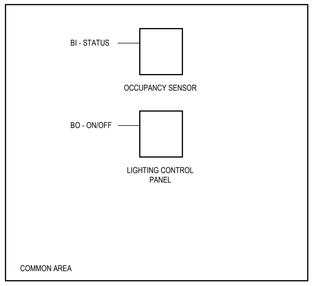
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GENERAL

LIGHTING SYSTEM SHALL BE CONTROLLED THROUGH THE BUILDING AUTOMATION AND CONTROL SYSTEM (BACS).

OCCUPIED
THE BACS SHALL TURN LIGHTING IN EACH SPACE ON BASED UPON A USER DEFINED SCHEDULE. UPON SIGNAL FROM OCCUPANCY SENSORS SHALL TURN LIGHTING OFF IF THE SPACE HAS NOT BEEN ACTIVE FOR MORE THAN 15 MINUTES.

UNOCCUPIED
THE BACS SHALL TURN LIGHTING IN EACH SPACE UPON A USER DEFINED SCHEDULE. UPON SIGNAL FROM OCCUPANCY SENSORS SHALL TURN LIGHTING ON AND REMAIN ACTIVE FOR 15 MINUTES.



COMMON AREA LIGHTING	HARDWARE POINTS				SOFTWARE POINTS							SHOW ON GRAPHIC	NOTES
	BI	BO	AI	AO	AV	BV	SCH	TREND	ALARM				
									BACS	EMCS	DESCRIPTION		
OCCUPANCY SENSOR	X							X				X	
LIGHTING ON/OFF		X						X				X	

2 M802 LIGHTING CONTROLS

N.T.S.

GENERAL

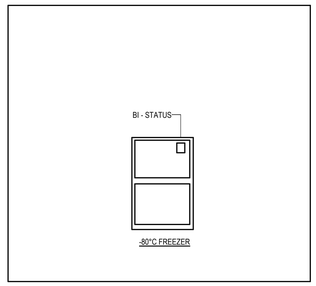
MONITORING OF STATUS OF SPACE OR EQUIPMENT. TREND STATUS OF EACH PIECE OF EQUIPMENT.

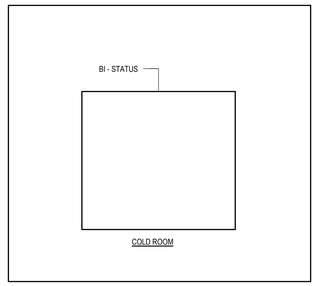
ALARMS

REFER TO POINTS LIST.

EQUIPMENT COUNT

REFER TO EQUIPMENT PLANS FOR FREEZER AND COLD ROOM COUNTS.





FREEZER AND COLD ROOM	HARDWARE POINTS				SOFTWARE POINTS							SHOW ON GRAPHIC	NOTES
	BI	BO	AI	AO	AV	BV	SCH	TREND	ALARM				
									BACS	EMCS	DESCRIPTION		
FREEZER X STATUS	X							X	X		GENERAL ALARM	X	
COLD ROOM X STATUS	X							X	X		GENERAL ALARM	X	

3 M802 COLD ROOM AND FREEZER MONITORING

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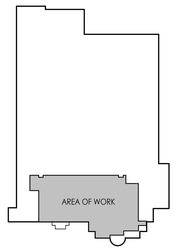
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2026/10/19

Key Plan:



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SUCF#: 191030

Project No.:225306010

CONTROLS SCHEMATICS

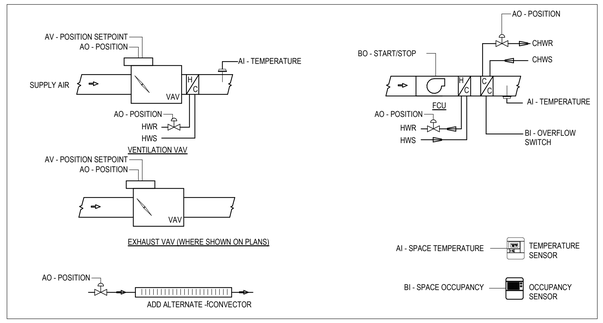
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ORIGINAL SHEET - ARCH E1



OFFICES, BREAK/COLLAB CONTROLS SCHEME

ZONE CONTROL: VAV WITH REHEAT AND FCU	HARDWARE POINTS				SOFTWARE POINTS							SHOW ON GRAPHIC	NOTES
	BI	BO	AI	AO	AV	BV	SCH	TREND	ALARM				
									BACS	EMCS	DESCRIPTION		
SUPPLY AIR VAV BOX DAMPER POSITION COMMAND				X				X				X	
SUPPLY AIR VAV BOX AIRFLOW FEEDBACK (CFM)					X			X	X		10% FLOW DEVIATION FROM SETPOINT	X	BACnet MSTP NETWORK POINT
SUPPLY AIR VAV BOX AIRFLOW SETPOINT (CFM)					X			X				X	BACnet MSTP NETWORK POINT
SUPPLY AIR VAV BOX POSITION FEEDBACK (%)					X			X	X		VALVE COMMAND ≠ FEEDBACK	X	BACnet MSTP NETWORK POINT
RE-HEAT COIL VALVE POSITION COMMAND				X				X	X		5 °F ΔT ACROSS COIL WITH VALVE COMMANDED CLOSED	X	FAIL LAST
RE-HEAT COIL LEAVING AIR TEMPERATURE			X					X				X	SINGLE POINT SENSOR
FCU FAN MOTOR START/STOP		X					X	X				X	
FCU SUPPLY DISCHARGE AIR TEMPERATURE			X					X	X		+/- 4 °F FROM SETPOINT	X	AVERAGING SENSOR
FCU SUPPLY DISCHARGE AIR TEMPERATURE SETPOINT					X			X				X	
FCU CONDENSATE DRAIN PAN OVERFLOW SWITCH	X										IF YES	X	
FCU HEATING COIL CONTROL VALVE POSITION COMMAND				X				X				X	FAIL LAST
FCU COOLING COIL CONTROL VALVE POSITION COMMAND				X				X				X	NORMALLY CLOSED
ZONE OCCUPANCY	X							X				X	
ZONE TEMPERATURE SETPOINT					X			X				X	
ZONE TEMPERATURE			X					X	X		+/- 4 °F FROM SETPOINT	X	
ADD ALTERNATE: CONVECTOR HEATING CONTROL VALVE POSITION COMMAND				X				X				X	FAIL OPEN

SEQUENCE OF OPERATIONS:

SYSTEM DESCRIPTION
FOUR PIPE FAN COIL
SUPPLY VARIABLE AIR VOLUME TERMINAL UNIT (SVAV) WITH REHEAT
EXHAUST VARIABLE AIR VOLUME TERMINAL UNIT (EVAV)

DESIGN INTENT

FOUR PIPE FAN COIL UNITS PROVIDE SPACE HEATING AND COOLING. VENTILATION AIR IS PROVIDED BY EXISTING AIR HANDLING UNITS WITH SUPPLY TO SPACE BEING CONTROLLED WITH VAV BOX WITH REHEAT. SUPPLY AIR TO EACH SPACE SHALL BE UTILIZED AS TRANSFER AIR INTO LABORATORY SPACES CONTINUOUSLY, REGARDLESS OF LAB AND OFFICE OCCUPANCY STATUS, AS A MEANS OF MAINTAINING LAB MINIMUM ACH AND LAB PRESSURIZATION NEGATIVE TO OFFICES. FAN COIL TO CYCLE WITH LOADS DURING UNOCCUPIED MODE.

GENERAL

SYSTEM SHALL BE CONTROLLED THROUGH THE BUILDING AUTOMATION AND CONTROL SYSTEM (BACS).

ALL SETPOINTS SHALL BE ADJUSTABLE.

THE BACS SHALL BE CAPABLE OF RETAINING ITS PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR AT LEAST TEN HOURS.

SETPOINTS

SPACE COOLING TEMPERATURE SETPOINTS:
OCCUPIED: 75°F +/- 1.5°F
OCCUPIED SETBACK: 75°F +/- 3°F
UNOCCUPIED: 75°F +/- 6°F

SPACE HEATING TEMPERATURE SETPOINTS:
OCCUPIED: 70°F +/- 1.5°F
OCCUPIED SETBACK: 70°F +/- 3°F
UNOCCUPIED: 70°F +/- 6°F

SPACE HIGH LIMIT TEMPERATURE: 85°F

SPACE LOW LIMIT TEMPERATURE: 60°F

FCU DISCHARGE AIR TEMPERATURE LOW LIMIT: 45°F

ZONE OCCUPANCY SCHEDULE: 6 AM TO 8 PM, MON-FRI

PER 2025 NYSECC, INITIAL CONFIGURED DEADBAND BETWEEN HEATING AND COOLING SETPOINTS SHALL BE NOT LESS THAN 5DF. MINIMUM DEADBAND SHALL BE NOT LESS THAN 1DF WHEN SETPOINTS ARE ADJUSTED.

PER 2025 NYSECC, SETPOINT ADJUSTMENT SHALL BE INDEPENDENT FOR THE HEATING SETPOINT AND COOLING SETPOINT; WHEN ONE SETPOINT IS CHANGED, THE OTHER SHALL NOT CHANGE EXCEPT AS NEEDED TO MAINTAIN THE MINIMUM DEADBAND. FOR THERMOSTATIC CONTROLS THAT DISPLAY SETPOINTS, BOTH THE HEATING AND COOLING SETPOINTS SHALL BE DISPLAYED SIMULTANEOUSLY, OR THE SETPOINT OF THE CURRENTLY ACTIVE MODE (HEATING OR COOLING) SHALL BE DISPLAYED WITH AN INDICATION OF THAT MODE.

PER 2025 NYSECC, THERMOSTATIC SETBACK CONTROLS SHALL BE CONFIGURED TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURES DOWN TO 55DF OR UP TO 85DF.

PER 2025 NYSECC, AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROLS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR NOT FEWER THAN 10 HOURS. THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS; A MANUALLY OPERATED TIMER CONFIGURED TO OPERATE THE SYSTEM FOR UP TO 2 HOURS; OR AN OCCUPANCY SENSOR.

PER 2025 NYSECC, OPTIMUM START AND STOP CONTROLS SHALL BE PROVIDED FOR EACH HEATING AND COOLING SYSTEM WITH DIRECT CONTROL OF INDIVIDUAL ZONES. THE OPTIMUM START CONTROLS SHALL BE CONFIGURED TO AUTOMATICALLY ADJUST THE DAILY START TIME OF THE HEATING AND COOLING SYSTEM IN ORDER TO BRING EACH SPACE TO THE DESIRED OCCUPIED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED OCCUPANCY. THE OPTIMUM STOP CONTROLS SHALL BE CONFIGURED TO REDUCE THE HEATING AND COOLING SYSTEMS HEATING TEMPERATURE SETPOINT AND INCREASE THE COOLING TEMPERATURE SETPOINT BY NOT LESS THAN 2DF BEFORE THE SCHEDULED UNOCCUPIED PERIODS BASED ON THE THERMAL LAG AND ACCEPTABLE DRIFT IN SPACE TEMPERATURE THAT IS WITHIN COMFORT LIMITS.

SPACE OCCUPANCY
ZONE OCCUPANCY SHALL BE DETERMINED BASED ON A COMBINATION OF A TIME OF DAY SCHEDULE AND A SPACE OCCUPANCY SENSOR.

DURING THE SCHEDULED OCCUPANCY PERIOD, THE ZONE SHALL BE INITIALLY INDEXED TO OCCUPIED AND OPERATE FOR A MINIMUM OF 30 MINUTES, AT WHICH TIME THE SPACE OCCUPANCY SENSOR SHALLINDEX THE SPACE BETWEEN OCCUPIED AND OCCUPIED SETBACK MODE.

IF THE SPACE BECOMES OCCUPIED DURING THE SCHEDULED UNOCCUPIED PERIOD, AS DETERMINED VIA THE OCCUPANCY SENSOR, THE ZONE SHALL BE INDEXED TO OCCUPIED FOR THE DURATION OF OCCUPANCY. THE ZONE SHALL INDEX BACK TO UNOCCUPIED WHEN OCCUPANCY IS NOT SENSED FOR A PERIOD OF 30 MINUTES.

FOR ZONES WITH MULTIPLE SPACES, AN OCCUPANCY SENSOR SHALL BE PROVIDED IN EACH SPACE, AND ZONE OCCUPANCY SHALL BE BASED ON OCCUPANCY INPUTS FROM ANY OF THE SPACE OCCUPANCY SENSORS ASSOCIATED WITH THAT ZONE.

FAN COIL UNIT START/STOP

THE FAN COIL UNIT SHALL OPERATE WHENEVER THE SPACE IS IN OCCUPIED OR OCCUPIED SETBACK MODE.

THE SPACE SENSOR SHALL BE PROVIDED WITH A MANUAL OVERRIDE SWITCH TO ALLOW THE OCCUPANT TO HAVE THE CAPABILITY OF MANUALLY SELECTING FAN START/STOP. IF THE SYSTEM IS PLACED IN MANUAL CONTROL, SYSTEM SHALL REVERT BACK TO AUTOMATIC CONTROL AT THE START OF THE SCHEDULED OCCUPANCY PERIOD.

MANUAL CONTROL SHALL ALSO BE OVERRIDEN IF SPACE CONDITIONS RISE ABOVE THE HIGH LIMIT SPACE TEMPERATURE, IF SPACE CONDITIONS FALL BELOW THE LOW LIMIT SPACE TEMPERATURE, AND IF THE FCU DISCHARGE AIR TEMPERATURE FALLS BELOW THE LOW LIMIT DISCHARGE AIR TEMPERATURE.

THE FAN COIL UNIT SHALL ALSO START AND OPERATE DURING UNOCCUPIED MODE WHEN IT IS NEEDED TO MAINTAIN THE UNOCCUPIED HEATING AND COOLING TEMPRATURE SETPOINTS.

FAN SPEED CONTROL

THE FAN SHALL OPERATE AT CONSTANT SPEED WHENEVER THE SYSTEM IS INDEXED TO OPERATE.

SPACE VENTILATION CONTROL

THE SUPPLY AIR VAVS SHALL BE OPEN CONTINUOUSLY AND SHALL SUPPLY VENTILATION AIR REGARDLESS OF OCCUPANCY (TO PROVIDE TRANSFER AIR FOR MINIMUM LAB VENTILATION EVEN WHEN UNOCCUPIED).

ZONE TEMPERATURE CONTROL

TEMPERATURE SETPOINTS SHALL BE DETERMINED BASED ON A COMBINATION OF PROGRAMMED SCHEDULE AND A SPACE OCCUPANCY SENSOR.

OCCUPIED HEATING: IF THE SPACE IS OCCUPIED DURING THE SCHEDULED OCCUPIED PERIOD AND THE ZONE TEMPERATURE FALLS BELOW THE OCCUPIED HEATING TEMPERATURE SETPOINT, THE SVAV REHEAT COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN SETPOINT. IF THE ZONE TEMPERATURE REMAINS BELOW THE OCCUPIED HEATING TEMPERATURE SETPOINT AFTER THE SVAV RHC CONTROL VALVE HAS BEEN FULLY OPEN FOR 5 MINUTES (ADJ), THE FAN COIL UNIT HEATING COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN SETPOINT WHETHER THE FAN IS ON OR OFF. IF THE FAN IS OFF, AND THE TEMPERATURE FALLS BELOW THE SPACE LOW LIMIT TEMPERATURE, THE BACS SHALL INDEX THE UNIT TO AUTOMATIC MODE IF IT HAS BEEN PLACED IN MANUAL MODE, THE UNIT SHALL START, AND THE HEATING COIL CONTROL VALVE SHALL MODULATE AS NEEDED TO MAINTAIN SETPOINT.

OCCUPIED COOLING: IF THE SPACE IS OCCUPIED DURING THE SCHEDULED OCCUPIED PERIOD, THE FAN IS ON, AND THE ZONE TEMPERATURE RISES ABOVE THE OCCUPIED COOLING TEMPERATURE SETPOINT, THE COOLING COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN SETPOINT. IF THE FAN IS OFF AND THE TEMPERATURE RISES ABOVE THE SPACE HIGH LIMIT TEMPERATURE, THE BACS SHALL INDEX THE UNIT TO AUTOMATIC MODE IF IT HAS BEEN PLACED IN MANUAL MODE, THE UNIT SHALL START, AND THE COOLING COIL CONTROL VALVE SHALL MODULATE AS NEEDED TO MAINTAIN SETPOINT.

OCCUPIED SETBACK: IF THE SPACE IS UNOCCUPIED DURING THE SCHEDULED OCCUPIED PERIOD, THE ABOVE OCCUPIED HEATING/COOLING SEQUENCES SHALL APPLY. THE SPACE SHALL BE MAINTAINED AT THE OCCUPIED SETBACK TEMPERATURE SETPOINTS.

UNOCCUPIED HEATING: IF THE SPACE IS UNOCCUPIED DURING THE SCHEDULED UNOCCUPIED PERIOD AND THE ZONE TEMPERATURE DROPS BELOW THE UNOCCUPIED HEATING TEMPERATURE SETPOINT, THE BACS SHALL INDEX THE UNIT TO AUTOMATIC MODE IF IT HAS BEEN PLACED IN MANUAL, THE UNIT FAN SHALL START, AND THE HEATING COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN SETPOINT.

UNOCCUPIED COOLING: IF THE SPACE IS UNOCCUPIED DURING THE SCHEDULED UNOCCUPIED PERIOD AND THE ZONE TEMPERATURE RISES ABOVE THE UNOCCUPIED COOLING TEMPERATURE SETPOINT, THE BACS SHALL INDEX THE UNIT TO AUTOMATIC MODE IF IT HAS BEEN PLACED IN MANUAL, THE UNIT FAN SHALL START, AND THE COOLING COIL CONTROL VALVE SHALL MODULATE TO MAINTAIN SETPOINT.

UNDER NORMAL OPERATION, THE COOLING COIL CONTROL VALVE SHALL BE CLOSED WHENEVER THE HEATING COIL CONTROL VALVE IS OPEN TO PREVENT SIMULTANEOUS HEATING AND COOLING.

IF AT ANY TIME THE FAN COIL UNIT DISCHARGE AIR TEMPERATURE FALLS BELOW THE LOW LIMIT TEMPERATURE SETPOINT, THE BACS SHALL INDEX THE UNIT TO AUTOMATIC MODE IF IT HAS BEEN PLACED IN MANUAL MODE, THE UNIT FAN SHALL START, AND THE HEATING AND COOLING CONTROL VALVES SHALL OPEN. THE SYSTEM SHALL RUN FOR A PERIOD OF AT LEAST 30 MINUTES, AFTER WHICH THE SYSTEM SHALL REVERT BACK TO NORMAL CONTROL.

THE COOLING CONTROL VALVE SHALL BE CLOSED WHEN THE FAN COIL UNIT FAN IS OFF.

ADD ALTERNATE - CONVECTORS
WHERE CONVECTORS ARE PRESENT BASED ON ACCEPTANCE OF ADD ALTERNATE, CONVECTOR HEATING HOT WATER CONTROL VALVE SHALL BE ENGAGED AND SHALL MODULATE PRIOR TO THE ACTIVATION OF REHEAT COILS AND/OR FAN COIL UNITS.

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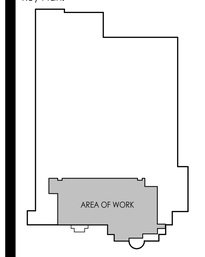
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2026/10/19

Key Plan:



Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

CONTROLS SCHEMATICS

Scale: 12" = 1'-0"
Revision:**0**
Drawing No. **M803**

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ORIGINAL SHEET - ARCH E1

SYSTEM DESCRIPTION

100% OUTSIDE AIR HANDLING UNITS (AHU-9, AHU-9A), EXHAUST AIR FANS (EF-10/11/12, EF-13/14, EF-15/16, EF-20/21)

GENERAL
SYSTEM SHALL BE CONTROLLED THROUGH THE BUILDING AUTOMATION AND CONTROL SYSTEM (BACS).

POWER FOR THE TEMPERATURE CONTROL PANEL SHALL BE FED FROM NORMAL POWER.

CONTROLLED EQUIPMENT POWER SHALL BE FED FROM NORMAL POWER. ALL SETPOINTS SHALL BE ADJUSTABLE.
THE BACS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK.

THE BACS SHALL BE CAPABLE OF RETAINING ITS PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR AT LEAST TEN HOURS.

ALL SAFETIES SHALL BE HARD WIRED INTO THE FAN MOTOR POWER CIRCUIT, AND SHALL REQUIRE MANUAL RESET.

DURING HEATING MODE, THE HEATING CONTROL VALVES SHALL CONTINUE TO CONTROL WHEN THE FAN IS OFF FOR CONTINUED FREEZE PROTECTION.

DESIGN INTENT: THE AIR HANDLING UNIT IS PROVIDING VENTILATION AIR AND SPACE HEATING/COOLING TO THE AREAS SERVED.

SETPOINTS

MAINTAIN EXISTING TEMPERATURE, PRESSURE, LOW AND HIGH LIMIT SETPOINTS IN ALIGNMENT WITH EXISTING SYSTEM PROGRAMMING.

SYSTEM OCCUPANCY SCHEDULE: MAINTAIN EXISTING SYSTEM SCHEDULE.

AIR HANDLING UNIT SUPPLY FANS SHALL BE INTERLOCKED WITH THE ASSOCIATED EXHAUST FANS.

SYSTEM SHALL RUN 24/7 AND SHALL MODULATE TO PROVIDE CONSTANT REQUIRED DUCT STATIC PRESSURE.

SHUTOFF DAMPER CONTROL

WHEN THE SYSTEM FANS ARE OFF, THE OUTSIDE AIR AND ASSOCIATED EXHAUST DAMPERS SHALL BE CLOSED.

WHEN THE SYSTEM FANS ARE INDEXED TO START, THE OUTSIDE AIR AND ASSOCIATED EXHAUST DAMPERS SHALL PROVE OPEN VIA AN END SWITCH PRIOR TO STARTING THE SYSTEM FANS.

FAN SPEED CONTROL

SUPPLY AIR FAN SHALL MODULATE VIA A VARIABLE FREQUENCY DRIVE AS REQUIRED TO MAINTAIN THE DOWNSTREAM STATIC PRESSURE SETPOINT. THE DOWNSTREAM STATIC PRESSURE SETPOINT SHALL BE RESET AS NEEDED TO MAINTAIN THE CRITICAL ZONE DAMPER POSITION AT 95% OPEN.

EXHAUST FAN SHALL MODULATE VIA A VARIABLE FREQUENCY DRIVE AS REQUIRED TO MAINTAIN THE SYSTEM STATIC PRESSURE SETPOINT. THE DOWNSTREAM STATIC PRESSURE SETPOINT SHALL BE RESET AS NEEDED TO MAINTAIN THE CRITICAL ZONE DAMPER POSITION AT 95% OPEN.

SUPPLY AIR TEMPERATURE CONTROL

MAINTAIN EXISTING DISCHARGE AIR TEMPERATURE SETPOINTS AND RESET SCHEDULE.

WHEN THE AHU DISCHARGE AIR TEMPERATURE FALLS BELOW SETPOINT, THE CHILLED WATER CONTROL VALVE SHALL BE CLOSED AND THE PRE-HEAT COIL CONTROL VALVE SHALL MODULATE AS REQUIRED TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT.

WHEN THE AHU DISCHARGE AIR TEMPERATURE RISES ABOVE SETPOINT, THE PRE-HEAT COIL CONTROL VALVE SHALL BE CLOSED, THE CHILLED WATER CONTROL VALVE SHALL MODULATE AS REQUIRED TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT.

SAFETIES

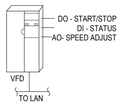
FREEZE PROTECTION: THE SUPPLY AIR FAN SHALL SHUT DOWN, THE OUTSIDE AIR DAMPER SHALL CLOSE, AND THE CONTROL VALVES SHALL OPEN UPON ACTIVATION OF THE LOW LIMIT TEMPERATURE SWITCH.

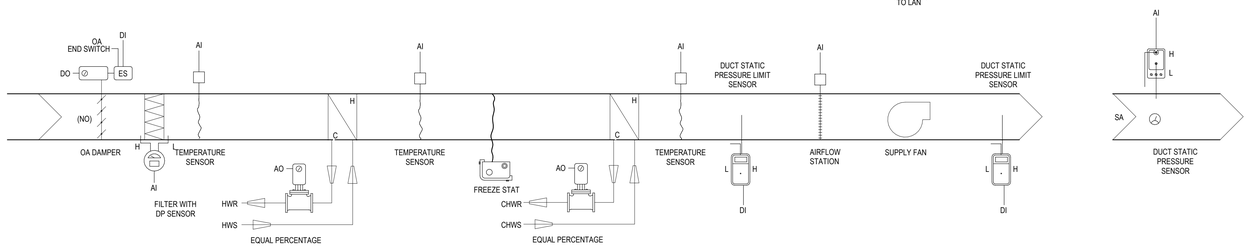
HIGH FAN STATIC: THE SUPPLY AIR FAN SHALL SHUT DOWN AND THE OUTSIDE AIR DAMPER SHALL CLOSE UPON ACTIVATION OF THE HIGH FAN DISCHARGE STATIC PRESSURE SWITCH.

LOW FAN STATIC: THE SUPPLY AIR FAN SHALL SHUT DOWN AND THE OUTSIDE AIR DAMPER SHALL CLOSE UPON ACTIVATION OF THE LOW FAN SUCTION STATIC PRESSURE SWITCH.

SMOKE DETECTION: THE FAN SHALL SHUT DOWN AND THE OUTSIDE AIR/RELIEF AIR DAMPER SHALL CLOSE UPON ACTIVATION OF A DUCT SMOKE DETECTOR.

NOTE:
EXISTING AHU CONTROLS COMPONENTS ARE UNDERSTOOD TO BE PRESENT AS DEPICTED - DIAGRAM IS SHOWN FOR REFERENCE ONLY. DURING AHU REFURBISHMENT, CONTROLS CONTRACTOR SHALL VALIDATE EXISTENCE AND FUNCTIONALITY OF ALL REFERENCED AND REQUIRED DEVICES TO PROVIDE A SYSTEM CONTROLLED AS DESCRIBED ABOVE. IF ANY COMPONENTS REQUIRE REPAIR OR REPLACEMENT, CONTRACTOR SHALL ADVISE OWNER OF REQUIRED SCOPE FOR REVIEW AND APPROVAL.





1 M804 EXISTING AHU CONTROLS
N.T.S.

SEQUENCE OF OPERATION

SYSTEM DESCRIPTION

EXISTING LABORATORY EXHAUST FANS (EF-10/11/12, EF-13/14, EF-15/16, EF-20/21)

GENERAL

SYSTEM SHALL BE CONTROLLED THROUGH THE BUILDING AUTOMATION AND CONTROL SYSTEM (BACS).

ALL SETPOINTS SHALL BE ADJUSTABLE.

THE BACS SHALL BE CAPABLE OF RETAINING ITS PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR AT LEAST TEN HOURS.

DESIGN INTENT: SYSTEM IS DESIGNED FOR N+1 REDUNDANCY.

SETPOINTS
MAINTAIN EXISTING SYSTEM SETPOINTS.

FAN SPEED SHALL MODULATE TO MAINTAIN EXHAUST DUCT STATIC PRESSURE SETPOINT.

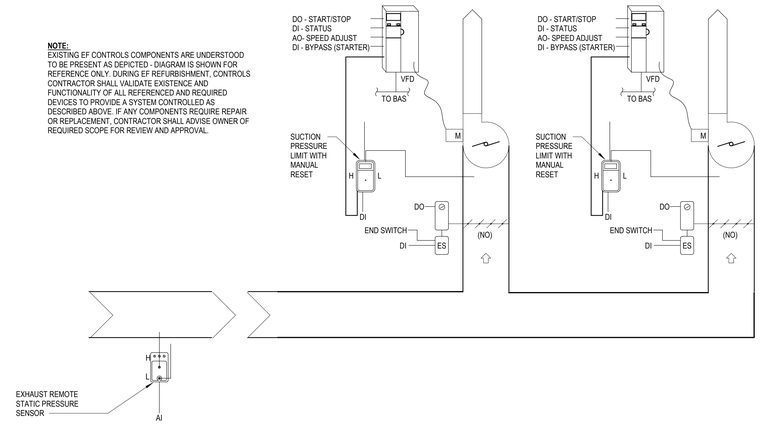
THE DOWNSTREAM STATIC PRESSURE SETPOINT SHALL BE RESET AS NEEDED TO MAINTAIN THE CRITICAL ZONE DAMPER POSITION AT 95% OPEN.

AFTER 1000 HOURS OF OPERATION, THE LEAD FAN SHALL INDEX TO STANDBY, THE LAG FAN SHALL INDEX TO LEAD, AND THE STANDBY FAN SHALL INDEX TO LAG.

ON FAILURE OF THE LEAD FAN, THE LEAD FAN SHALL INDEX TO STANDBY, THE LAG FAN SHALL INDEX TO LEAD, AND THE STANDBY FAN SHALL INDEX TO LAG.

ON FAILURE OF THE MAKEUP AIR HANDLING SYSTEM ASSOCIATED WITH THE LABORATORY EXHAUST SYSTEM, THE SYSTEM SHALL INDEX AIRFLOW CONTROL. THE BYPASS DAMPER SHALL CLOSE, AND THE FAN(S) SHALL INDEX TO 40% OF FULL DESIGN AIRFLOW.

NOTE:
EXISTING EF CONTROLS COMPONENTS ARE UNDERSTOOD TO BE PRESENT AS DEPICTED - DIAGRAM IS SHOWN FOR REFERENCE ONLY. DURING EF REFURBISHMENT, CONTROLS CONTRACTOR SHALL VALIDATE EXISTENCE AND FUNCTIONALITY OF ALL REFERENCED AND REQUIRED DEVICES TO PROVIDE A SYSTEM CONTROLLED AS DESCRIBED ABOVE. IF ANY COMPONENTS REQUIRE REPAIR OR REPLACEMENT, CONTRACTOR SHALL ADVISE OWNER OF REQUIRED SCOPE FOR REVIEW AND APPROVAL.



2 M804 LABORATORY EXHAUST FAN CONTROL SCHEMATIC
12" = 1'-0"

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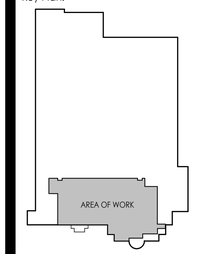
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Issued/Revision		YYYY.MM.DD

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Drawing No. **M804**

ORIGINAL SHEET - ARCH E1

WORK DEFINITION

- NEW WORK
- EXISTING
- REMOVE EXISTING
- REMOVE EXISTING ELECTRICAL EQUIPMENT
- FUTURE
- TEMPORARY, AS NOTED
- (##) PROPOSED WORK KEYED NOTE
- DEMOLITION WORK KEYED NOTE
- (???) EQUIPMENT IDENTIFICATION

RACEWAYS

- RACEWAY CONCEALED IN CEILING OR WALL. EXPOSED RACEWAY IS ALLOWED ONLY WHERE NOTED.
- RACEWAY BELOW SLAB OR UNDERGROUND
- RACEWAY UP
- RACEWAY DOWN
- RACEWAY CONTINUATION
- RACEWAY STUB-OUT WITH BUSHING
- DUAL COMPARTMENT POWER/DATA SURFACE RACEWAY (HORIZONTAL/VERTICAL)
- J JUNCTION BOX, CEILING OR ABOVE CEILING MOUNTED
- J JUNCTION BOX, WALL MOUNTED
- J JUNCTION BOX, IN-GROUND
- PB PULL BOX

ELECTRICAL EQUIPMENT

- 208V OR 240V POWER PANELBOARD
- 480V OR 600V POWER PANELBOARD
- EQUIPMENT CABINET OR PANEL
- BUS DUCT
- ATS AUTOMATIC TRANSFER SWITCH
- BUS DUCT PLUG
- SPD SURGE PROTECTIVE DEVICE
- T TRANSFORMER, NOT TO SCALE
- POWER OUTLET
  REFER TO POWER OUTLET SCHEDULE

RECEPTACLES

CIRCUITS EMERGENCY	CIRCUITS NORMAL	
		SINGLE RECEPTACLE, 120V
		SINGLE RECEPTACLE, 120V, CEILING MOUNTED
		DUPLEX RECEPTACLE, 120V
		DUPLEX RECEPTACLE, 120V, CEILING MOUNTED
		DOUBLE DUPLEX RECEPTACLE, 120V
		DOUBLE DUPLEX RECEPTACLE, 120V, CEILING MOUNTED
		SPLIT WIRED RECEPTACLE, 120V, TOP CONTROLLED, BOTTOM CONSTANTLY ENERGIZED
	#	SPECIAL PURPOSE OUTLET # DESIGNATES CONFIGURATION
N/A		INDICATES FULLY CONTROLLED
N/A		INDICATES 15A
N/A		INDICATES TWIST LOCK
N/A		INDICATES MOUNTED ABOVE COUNTER BACKSPLASH
N/A		MULTI-SERVICE ASSEMBLY (RECEPTACLES AS INDICATED)
N/A		MULTI-SERVICE CEILING BOX (RECEPTACLES AS INDICATED)
N/A		MULTI-SERVICE FLOOR BOX (RECEPTACLES AS INDICATED)
N/A		MULTI-SERVICE FURNITURE BOX (RECEPTACLES AS INDICATED)
N/A		MULTI-SERVICE POKE THRU (RECEPTACLES AS INDICATED)
N/A		MULTI-SERVICE POWER POLE (RECEPTACLES AS INDICATED)
N/A		MULTI-SERVICE WALL BOX (RECEPTACLES AS INDICATED)
N/A		PLUG STRIP (HORIZONTAL/VERTICAL)
N/A		CLOCK RECEPTACLE, 120V
		CORD DROP, 120V
		CEILING CORD DROP, 120V

RECEPTACLE TYPES

- A ARC FAULT CIRCUIT INTERRUPTER
- AT ARC FAULT CIRCUIT INTERRUPTER AND TAMPER RESISTANT
- D DEDICATED CIRCUIT
- G GROUND FAULT CIRCUIT INTERRUPTER
- GT GROUND FAULT CIRCUIT INTERRUPTER AND TAMPER RESISTANT
- IG ISOLATED GROUND
- S SURGE PROTECTOR
- T TAMPER RESISTANT
- U INTEGRAL USB PORT(S)
- WP WEATHER RESISTANT COVER
- KS KNEESPACE RECEPTACLE
- UC UNDER COUNTER RECEPTACLE

CONTROLS

- NON-FUSED SAFETY SWITCH
- FUSED SAFETY SWITCH, FUSE RATING INDICATED
- COMBINATION MOTOR STARTER AND FUSED SAFETY SWITCH, FUSE RATING INDICATED
- MOTOR STARTER
- MANUAL MOTOR STARTER
- AUTOMATIC DOOR PUSHPLATE
- DEAD FRONT GFCI
- EMERGENCY SHUTDOWN
- ENCLOSED CIRCUIT BREAKER
- ENCLOSED CONTACTOR
- PUSH BUTTON CONTROL STATION
- $M TOGGLE SWITCH, MOTOR RATED
- TOUCHLESS AUTOMATIC DOOR OPENER
- DDC DIRECT DIGITAL CONTROL PANEL
- R RELAY
- THERMOSTAT
- TC TIME CLOCK
- VFD VARIABLE FREQUENCY DRIVE

LUMINAIRES

CIRCUITS EMERGENCY	CIRCUITS NORMAL	
N/A	L01	LUMINAIRE IDENTIFICATION, SEE LUMINAIRES SCHEDULE
N/A	a	LOWER-CASE LETTER(S) NEAR LUMINAIRE DENOTE SWITCH LEG(S)
		RECESSED RECTANGULAR LUMINAIRE, DRAWN TO SCALE
		SURFACE MOUNTED RECTANGULAR LUMINAIRE, DRAWN TO SCALE
		RECESSED VOLUMETRIC LUMINAIRE, DRAWN TO SCALE
		STRIP LUMINAIRE, LENGTH TO SCALE
		WALL MOUNTED RECTANGULAR LUMINAIRE, LENGTH TO SCALE (NUMBER OF MOUNTING POINTS WILL VARY WITH THE LUMINAIRE LENGTH AND ARE NOT INDICATED.)
		RECESSED DOWNLIGHT LUMINAIRE
		SURFACE MOUNTED CEILING LUMINAIRE
		PENDANT MOUNTED LUMINAIRE
		LINEAR PENDANT MOUNTED LUMINAIRE, LENGTH TO SCALE (NUMBER OF MOUNTING POINTS WILL VARY WITH THE LUMINAIRE LENGTH AND ARE NOT INDICATED.)
		WALL MOUNTED LUMINAIRE
		WALL MOUNTED VERTICALLY ORIENTED LUMINAIRE
		WALL MOUNTED RECESSED LINEAR LUMINAIRE, LENGTH TO SCALE
	N/A	EXIT SIGN, FILLED SIDES INDICATE ILLUMINATED ANNOTATION, ARROWS INDICATE DIRECTIONAL GRAPHICS
	N/A	WALL MOUNTED EXIT SIGN, FILLED SIDES INDICATE ILLUMINATED ANNOTATION, ARROWS INDICATE DIRECTIONAL GRAPHICS
	N/A	EXIT SIGN WITH EMERGENCY BATTERY PACK
	N/A	WALL MOUNTED EXIT SIGN WITH EMERGENCY BATTERY PACK
	N/A	EMERGENCY BATTERY PACK, NUMBER OF LAMPS NOT INDICATED
	N/A	WALL MOUNTED EMERGENCY BATTERY PACK, NUMBER OF LAMPS NOT INDICATED
	N/A	EMERGENCY WITH REMOTE BATTERY PACK, NUMBER OF LAMPS NOT INDICATED
	N/A	WALL MOUNTED EMERGENCY WITH REMOTE BATTERY PACK, NUMBER OF LAMPS NOT INDICATED
		RECESSED LINEAR WALL WASH LUMINAIRE, LENGTH TO SCALE
		LINEAR PENDANT MOUNTED WALL WASH LUMINAIRE, LENGTH TO SCALE
		RECESSED WALL WASH LUMINAIRE
		SURFACE MOUNTED WALL WASH LUMINAIRE
		PENDANT MOUNTED WALL WASH LUMINAIRE
		RECESSED ACCENT LUMINAIRE
		SURFACE MOUNTED ACCENT LUMINAIRE
		PENDANT MOUNTED ACCENT LUMINAIRE
		MONOPOINT LUMINAIRE
N/A		TRACK LIGHTING
N/A		CONTINUOUS SOURCE LUMINAIRE, PATH AS INDICATED
		MULTI-LAMP ACCENT LUMINAIRE, NUMBER OF LAMPS NOT INDICATED
		WALL MOUNTED MULTI-LAMP ACCENT LUMINAIRE, NUMBER OF LAMPS NOT INDICATED
		OVERCOUNTER TASK LUMINAIRE
		UNDERCABINET TASK LUMINAIRE
		FIBER OPTIC REMOTE SOURCE
		STEP LUMINAIRE
		ILLUMINATED SIGN
		WALL MOUNTED ILLUMINATED SIGN
		NIGHT LIGHT
		WALL MOUNTED STROBE LIGHT

LIGHTING CONTROLS

- $ SINGLE POLE SWITCH
- INDICATES WIRELESS CONTROL
- INDICATES BATTERY POWER
- $a LOWER-CASE LETTER(S) NEAR SWITCH DENOTE SWITCH LEG(S)
- $2 DOUBLE POLE SWITCH
- $3 THREE-WAY SWITCH
- $4 FOUR-WAY SWITCH
- $D DIMMER SWITCH DD
- $D DIGITAL LIGHT SWITCH
- $D DIMMING DIGITAL LIGHT SWITCH
- R DIGITAL LIGHTING RELAY
- $D DIMMING DIGITAL LIGHTING RELAY
- OC DIGITAL OCCUPANCY SENSOR
- $K KEY OPERATED SWITCH
- $LV MOMENTARY CONTACT LOW VOLTAGE SWITCH
- $O OCCUPANCY SENSOR SWITCH
- $P SWITCH WITH PILOT LIGHT
- $PC PHOTOCELL SWITCH
- $T TIMER SWITCH
  - COMBINATIONS OF THE ABOVE DESIGNATIONS MAY BE USED
- CS# LOW VOLTAGE CONTROL STATION, # INDICATES STATION IDENTIFICATION
- DSC DIMMING SYSTEM CONTROL PANEL
- ELCU EMERGENCY LIGHTING CONTROL UNIT
- LCP LIGHTING CONTROL PANEL
- DP COMBINATION OCCUPANCY/PHOTO SENSOR SWITCH, CEILING MOUNTED
- OS OCCUPANCY SENSOR SWITCH, CEILING MOUNTED
- PC PARTITION SENSOR CONTROL
- PS PHOTO SENSOR CONTROL
- PSR PHOTO SENSOR CONTROL, CEILING MOUNTED
- R RELAY
- T LOW VOLTAGE TRANSFORMER

ABBREVIATIONS

#/C	MULTI-CONDUCTOR, # INDICATES QUANTITY
(D)	DEMOLISH
(E)	EXISTING
(N)	NEW
(R)	EXISTING TO BE RELOCATED
1/C	SINGLE CONDUCTOR
A	AMPS
A/C	AIR CONDITIONING UNIT
AC	ALTERNATING CURRENT
ACH	ABOVE COUNTER HEIGHT
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH...
ADJ	ADJUSTABLE
AF	AMP FRAME
AFC	ABOVE FINISHED CEILING
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING...
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ALD	ASSISTED LISTENING DEVICE
ALT	ALTERNATE
ARCH	ARCHITECTURAL
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIO VISUAL
AVG	AVERAGE
AWG	AMERICAN WIRE GAUGE
BC	BONDING CONDUCTOR
BCU	BARE COPPER
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BKR	BREAKER
BLDG	BUILDING
BOF	BOTTOM OF FIXTURE
BOH	BACK OF HOUSE
BTM	BOTTOM
C	CONDUIT
C/W	COMPLETE WITH
CAP	CAPACITY
CATV	COMMUNITY ANTENNA...
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CEC	CANADIAN ELECTRIC CODE
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CIRC	CIRCULATING
CKT	CIRCUIT
CL	CENTERLINE
CLG	CEILING
CM	CEILING MOUNTED
CMU	CONCRETE MASONRY UNIT
CO	CONDUIT ONLY
COMM	COMMUNICATIONS
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CPT	CONTROL POWER TRANSFORMER
CPU	CENTRAL PROCESSING UNIT
CR	CRITICAL BRANCH
CT	CURRENT TRANSFORMERS
CTR	CENTER
CU	COPPER
CUH	CABINET UNIT HEATER
D	DEDICATED
DALI	DIGITAL ADDRESSABLE LIGHTING INTERFACE
DC	DIRECT CURRENT
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DIV	DIVISION
DL	DAMP LOCATION
DMX	DIGITAL MULTIPLEX
DMX-RDM	DIGITAL MULTIPLEX REMOTE DEVICE MANAGEMENT
DN	DOWN
DP	DISTRIBUTION PANEL
DPDT	DOUBLE POLE, DOUBLE THROW
DPR	DAMPER
DPST	DOUBLE POLE, SINGLE THROW
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EM GEN	EMERGENCY GENERATOR
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EP	ELECTRIC-PNEUMATIC
EPO	EMERGENCY POWER OFF
EQ	EQUIPMENT BRANCH
EQUIP	EQUIPMENT

ABBREVIATIONS

NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFE	OWNER FURNISHED EQUIPMENT
OH	OVERHEAD
OL	OVERLOAD
OS	OCCUPANCY SENSOR, OPTIONAL STANDBY
OSP	OUTSIDE PLANT
P	POLE
PA	PUBLIC ADDRESS
PB	PULL BOX
PD	PUNCHDOWN
PF	POWER FACTOR
PNL	PANEL
POE	POINT OF ENTRANCE
POS	POINT OF SERVICE
PR	PAIR
PT	POTENTIAL TRANSFORMERS
PTS	PNEUMATIC TUBE STATION
PTZ	PAN/TILT/ZOOM
PV	PHOTOVOLTAIC
PVC	POLYVINYL CHLORIDE
PWR	POWER
RA	RETURN AIR
REC	RECESSED
RECP	RECEPTACLE
REQD	REQUIRED
REX	REQUEST TO EXIT
RM	ROOM
RNC	RIGID NON-METALLIC CONDUIT
RO	RACEWAY ONLY
RPC	REVERSE PHASE CUT
RSC, RGS	RIGID STEEL CONDUIT
SCCR	SHORT CIRCUIT CURRENT RATING
SEC	SECURITY
SECT	SECTION
SIM	SIMILAR
SM	SINGLE MODE FIBER OPTIC...
SMR	SURFACE MOUNTED RACEWAY
SPD	SURGE PROTECTED DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPECS	SPECIFICATIONS
SPST	SINGLE POLE SINGLE THROW
SS	STAINLESS STEEL
ST	SHUNT TRIP
STD	STANDARD
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYS	SYSTEM
TBB	TELECOMMUNICATIONS...
TC	TEMPERATURE CONTROL OR TERMINAL CABINET
TE	TELECOMMUNICATIONS ENCLOSURE
TELE	TELEPHONE
TELECOM	TELECOMMUNICATIONS
TEMP	TEMPERATURE
TERM	TERMINAL
TGB	TELECOMMUNICATIONS GROUND BAR
TMGB	TELECOMMUNICATIONS MAIN GROUND BAR
TOF	TOP OF FIXTURE
TP	TAMPER RESISTANT
TR	TELECOMMUNICATIONS ROOM
TSP	TWISTED SHIELDED PAIR
TSTAT	THERMOSTAT
TTB	TELECOM TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UNV	UNIVERSAL VOLTAGE
UPS	UNINTERRUPTIBLE POWER...
USB	UNIVERSAL SERIAL BUS
UTP	UNSHIELDED TWISTED PAIR
UV	UNIT VENTILATOR
V	VOLTS
VA	VOLT-AMPS
VAV	VARIABLE AIR VOLUME
VC	VOLUME CONTROL
VDT	VISUAL DISPLAY TERMINAL
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
VOL	VOLUME
VT	VAPOR TIGHT
W	WIRE, WATT
WAP	WIRELESS ACCESS POINT
WG	WIREGUARD
WL	WET LOCATION
WP	WEATHERPROOF
WT	WATERTIGHT
XFMR	TRANSFORMER
Ø, PH	PHASE

ABBREVIATIONS

ETD	EMERGENCY TRANSFER DEVICE
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXP	EXPLOSION PROOF
EXTER	EXTERIOR
F&I	FURNISHED AND INSTALLED
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FB	FLOOR BOX
FCU	FAN COIL UNIT
FLR	FLOOR
FLUOR	FLUORESCENT
FO	FIBER (FIBRE) OPTIC
FOH	FRONT OF HOUSE
FP	FIRE PROTECTION
FPC	FORWARD PHASE CONTROL
FS	FUSIBLE SWITCH
FSCS	FIRE FIGHTER SMOKE CONTROL STATION
FU	FUSE
FVNR	FULL VOLTAGE NON REVERSING
FVR	FULL VOLTAGE REVERSING
G, GND	GROUND
G/Y	GREEN YELLOW
GA	GAUGE
GAL	GALLONS
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI, GFCI	GROUND FAULT (CIRCUIT) INTERRUPTER
H	HOT CONDUCTOR
HC	HORIZONTAL CROSS CONNECT
HD	HAND DRYER
HFF	HANDS FREE FIXTURE
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HK	HOUSE KEEPING PAD
HM	HORIZONTALLY MOUNTED
HOA	HAND-OFF-AUTO
HOR	HORIZONTAL
HP	HORSEPOWER
HT	HEIGHT
HTG	HEATING
HV	HIGH VOLTAGE
HVCB	HIGH VOLTAGE CIRCUIT BREAKER
HW	HOT WATER
HZ	HERTZ
IC	INTERMEDIATE CROSS CONNECT
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INST	INSTANTANEOUS
IP	INTERNET PROTOCOL
JB	JUNCTION BOX
K	KIRK KEY INTERLOCK
KAIC	KILO-AMPS INTERRUPTING CAPACITY
KV	KILOVOLT
KVA	KILOVOLT-AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
LR	LEGALLY REQUIRED
LS	LIFE SAFETY BRANCH
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT
LTG	LIGHTING
LV	LOW VOLTAGE
MAU	MAKE UP AIR UNIT
MAX	MAXIMUM
MC	METAL CLAD CABLE
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MCP	MOTOR CIRCUIT PROTECTOR
MCT	MAIN CROSS CONNECT
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MET	MAIN EARTHING TERMINAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUG ONLY
MM	MULTIMODE FIBER (FIBRE) OPTIC STRAND
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MTG	MOUNTING
MTS	MAIN TERMINAL SPACE
MV	MEDIUM VOLTAGE
MVCB	MEDIUM VOLTAGE CIRCUIT BREAKER
MW	MICROWAVE OVEN
N	NEUTRAL
NAC	NOTIFICATION APPLIANCE...
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE

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STATE OF NEW YORK
WILLIAM T MCMAHAN
LICENSED PROFESSIONAL ENGINEER
NO. 070177

07/02/2026

Key Plan:

Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

ELECTRICAL LEAD SHEET

Scale: 12" = 1'-0"

Revision: **A**

Drawing No. **E001**

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ORIGINAL SHEET - ARCH E1

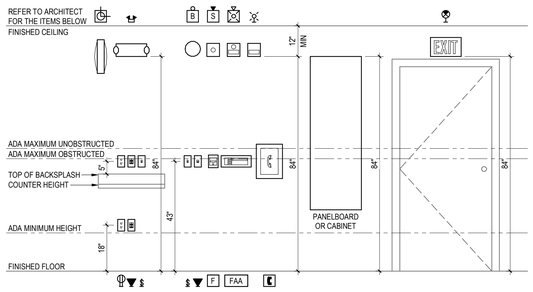
PROJECT DEMOLITION NOTES

1. ANY EXISTING WIRING SERVING DEVICES TO REMAIN IN SERVICE, AND WHICH IS INTERRUPTED BY WORK PERFORMED UNDER THIS CONTRACT, SHALL BE REROUTED TO MAINTAIN CIRCUIT CONTINUITY. CONTRACTOR SHALL ASSUME THE RISK OF MAINTAINING EXISTING SYSTEMS EXCEPT RELOCATION OF WIRING OF #2 AWG AND ABOVE SHALL BE CONSIDERED AN ADDITIONAL COST IF NOT SHOWN TO BE RELOCATED. IF SUCH WIRING IS FOUND THE CONTRACTOR SHALL NOTIFY THE OWNER OF WIRING LOCATION, REASON IT MUST BE REMOVED AND COST OF RELOCATION AND RECEIVE THE OWNER'S APPROVAL BEFORE PROCEEDING WITH THE WORK.
PRIOR TO COMMENCING WITH DEMOLITION, IDENTIFY ALL POWER, LIGHTING, COMMUNICATION, AND SIGNAL CIRCUITS PASSING THROUGH THE DEMOLITION AREA OR EXTENDING BEYOND THE DEMOLITION AREA. COORDINATE WITH DEMOLITION WORK OF OTHER TRADES.
2. PERMANENTLY REMOVE ABANDONED ELECTRICAL EQUIPMENT, LIGHTING FIXTURES, ELECTRICAL DEVICES, POWER AND SIGNALLING WIRING DEVICES AND ASSOCIATED WIRE, RACEWAYS, AND/OR JUNCTION BOXES. THE REMOVAL OR RELOCATION OF EXISTING ELECTRICAL EQUIPMENT PRESENTLY CONCEALED IN EXISTING CONSTRUCTION SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVAL OR RELOCATION. RACEWAYS AND CONDUCTORS SHALL BE REMOVED BACK TO THE SOURCE OR NEAREST REMAINING JUNCTION BOX OR DEVICE AS FAR AS PRACTICAL, OR WHERE COMPLETE REMOVAL NOT PRACTICAL, RENDERED PERMANENTLY SAFE.
3. ANY EXISTING SYSTEM OUTAGES SHALL BE OF MINIMUM DURATION AND AT A TIME ACCEPTABLE TO THE OWNER, ARRANGED A MINIMUM OF 10 WORKING DAYS IN ADVANCE. LONGER NOTICES AND/OR ADDITIONAL RESTRICTIONS PERTAINING TO OUTAGES MAY BE REQUIRED IN SOME INSTANCES, AS PER SPECIFICATIONS. VERIFY PROTOCOL WITH ALL PROJECT STAKEHOLDERS INCLUDING OWNER, TENANT, CONSTRUCTION MANAGER AND/OR USER GROUP(S) AS APPLICABLE.
4. ELECTRICAL EQUIPMENT, FIXTURES, AND/OR DEVICES SCHEDULED TO REMAIN OR TO BE RELOCATED THAT ARE DAMAGED DURING DEMOLITION SHALL BE REPLACED WITH SIMILAR TYPE AS APPROVED BY THE OWNER, AT NO ADDITIONAL CHARGE TO THE OWNER.
5. IN THE EVENT THAT DEMOLITION WORK AFFECTS THE STRUCTURAL SUPPORT OF EXISTING ELECTRICAL EQUIPMENT THAT IS TO REMAIN IN SERVICE, IT SHALL BE RE-SUPPORTED IN ACCORDANCE WITH ALL APPLICABLE CODES. PROVIDE TEMPORARY SUPPORTS WHERE REQUIRED.
6. UNUSED FLUSH MOUNTED DEVICES, OUTLET AND OTHER BOXES IN FINISHED AREAS SHALL BE REMOVED FROM WALL AND THE REMAINING HOLE PATCHED TO MATCH ADJACENT WALL SURFACES. UNUSED RACEWAYS AND SLEEVES SHALL BE CUT FLUSH AT CEILING, FLOOR OR WALL AND FILLED WITH GROUT OR REQUIRED FIRE SEALANT. UNUSED RACEWAYS ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED.
7. ELECTRICAL MATERIAL SCHEDULED FOR REMOVAL IS TO BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF AS PART OF THIS CONTRACT. ANY ELECTRICAL MATERIAL THE OWNER WISHES TO RETAIN TO BECOME THE PROPERTY OF THE OWNER AND TO BE REMOVED AND PLACED AT A LOCATION ON THE SITE AS DIRECTED BY THE OWNER.
8. THE DEMOLITION DRAWINGS SHOW THE GENERAL SCOPE OF THE DEMOLITION AND NOT EXACT DETAILS OR TOTAL EXTENT. FOR EXACT DETAILS AND TOTAL EXTENT, EACH SERVICE MUST BE CAREFULLY CHECKED ON SITE. BEFORE REMOVING SERVICES FOLLOW THE SERVICE THROUGH TO ENSURE OTHER AREAS OF THE BUILDING ARE NOT AFFECTED.

PROJECT NOTES

1. THE ELECTRICAL CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM AUTHORITIES HAVING JURISDICTION AND PAY ALL ASSOCIATED FEES.
2. LOCATE JUNCTION AND PULL BOXES AS REQUIRED TO ALLOW ACCESS AFTER EQUIPMENT AND APPURTENANCES ARE INSTALLED. COORDINATE EXACT LOCATIONS WITH THE OTHER TRADES. COORDINATE LOCATIONS AND ELEVATIONS OF ELECTRICAL DEVICES WITH DRAWINGS AND OTHER TRADES PRIOR TO INSTALLATION.
3. CONTRACTOR TO COORDINATE LOCATION OF PULL BOXES AND ACCESS PANELS WITH ARCHITECT. REFER TO "CEILING AREA TYPE" NOTES ON ARCHITECTURAL CONTRACT DOCUMENTS. ALL ACCESS PANELS AND PULL BOXES IN "CEILING AREA TYPE 1" MUST BE COORDINATED AND APPROVED.
4. PROTECT PERMANENT BUILDING FINISHES FROM DAMAGE DURING CONSTRUCTION PERIOD. PROVIDE PLYWOOD OR SIMILAR MATERIAL UNDER EQUIPMENT OR MATERIALS STORED ON FLOORS, AND IN AREAS WHERE CONSTRUCTION MAY DAMAGE FINISHES. SURFACES OR FINISHES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE COST OF THE CONTRACTOR AT FAULT.
5. CONTRACTORS SHALL COORDINATE LOCATIONS OF FIXTURES AND ELECTRICAL DEVICES INSTALLED IN OR ON THE CEILING WITH ARCHITECTURAL REFLECTED CEILING PLAN. CEILING MOUNTED ELECTRICAL DEVICES SHALL BE MOUNTED IN THE CENTER OF THE CEILING TILES, UNLESS OTHERWISE NOTED.
6. WHERE DIRECTED TO USE OR RETAIN EXISTING CIRCUITS, AND THE CIRCUIT NUMBERS DIFFER FROM THE DRAWING, UPDATE DIRECTORIES AND RECORD DRAWINGS.
7. PROPERLY SUPPORT PER CODE LOW VOLTAGE CABLING NOT IN CONDUIT. IN AREAS SUCH AS CORRIDORS DESIGNATED FOR NEW CEILINGS AND FINISHES, SUPPORT EXISTING ELECTRICAL DEVICES AND EQUIPMENT IN AND ABOVE THE CEILING, INCLUDING CONDUIT AND CABLING. PROVIDE PROPER PERMANENT SUPPORT AS NEEDED TO COMPLY WITH CODE AND TAKE WEIGHT OFF CEILING SUPPORTS. REMOVE AND REINSTALL ELECTRICAL DEVICES AND EQUIPMENT AS NEEDED FOR PAINTING, WALL COVERINGS, CEILINGS, AND FINISH WORK. REFER TO ARCHITECTURAL DRAWINGS. LOW VOLTAGE CABLING LOCATED IN EXPOSED STRUCTURE (CEILING) AREAS SHALL BE INSTALLED IN CONDUIT (OR CABLE TRAY, IF APPLICABLE) AND ROUTED TIGHT TO DECK. INSTALLATIONS NOT IN COMPLIANCE WITH THIS REQUIREMENT SHALL BE REMOVED AND REINSTALLED AT CONTRACTOR'S EXPENSE.
8. WHERE PROJECT PHASING IS INDICATED IN ANY PART OF THE WORKING DOCUMENT PACKAGE, ELECTRICAL CONTRACTOR IS TO PLAN WORK SO AS TO FACILITATE SUCH PHASING.
9. FOR BRANCH CIRCUITS OVER 75' (25 METERS) IN LENGTH (TOTAL ONE WAY) FROM THE PANEL, THE ELECTRICAL CONTRACTOR SHALL CALCULATE THE VOLTAGE DROP AND PROVIDE AN APPROPRIATE CONDUCTOR SIZE TO ACHIEVE NO MORE THAN 3% MAXIMUM ALLOWABLE VOLTAGE DROP.
10. DO NOT SCALE THE DRAWINGS. BECAUSE OF THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS OR OTHER SIMILAR ITEMS WHICH MAY BE REQUIRED TO MAKE A COMPLETE OPERATING SYSTEM. CAREFULLY INVESTIGATE CONDITIONS AFFECTING WORK AND INSTALL WORK IN SUCH MANNER THAT INTERFERENCES BETWEEN PIPES, CONDUITS, DUCTS, EQUIPMENT, ARCHITECTURAL AND STRUCTURAL FEATURES SHALL BE AVOIDED.

STANDARD MOUNTING HEIGHTS



1 / E002 **STANDARD MOUNTING HEIGHTS**
1/2" = 1'-0"

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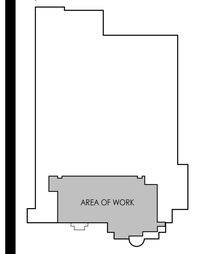
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07/02/2026

Key Plan:



Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

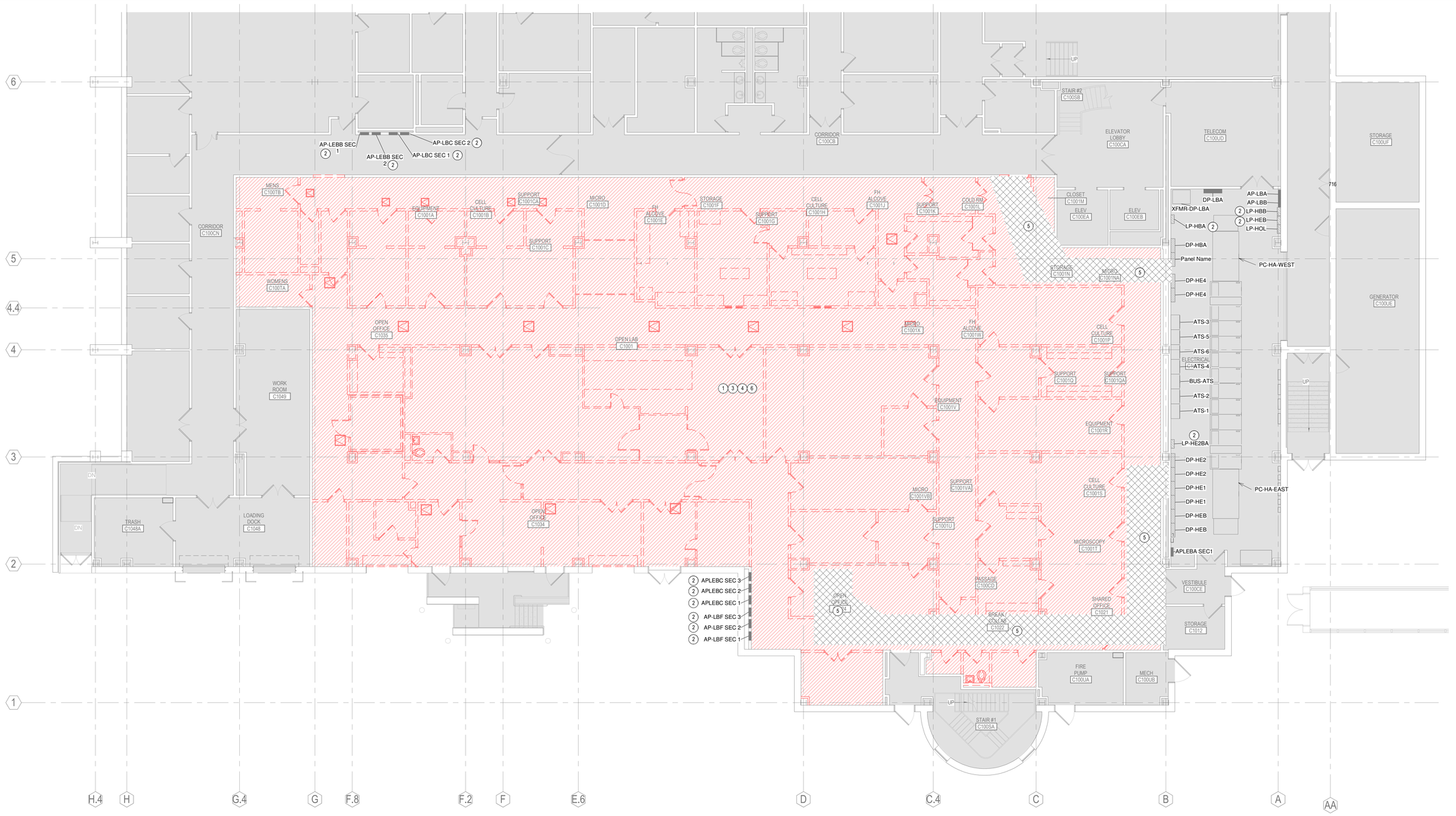
Project No.:225306010

ELECTRICAL LEAD SHEET

Scale: As indicated
Revision: **A**
Drawing No. **E002**

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ORIGINAL SHEET - ARCH E1



1 ED101 1ST FLOOR - POWER DEMOLITION PLAN - WEST

1/8" = 1'-0"

GENERAL NOTES - DEMOLITION

1. THIS DEMOLITION DRAWING IS IN PART DIAGRAMATIC AND THE CONTRACTOR SHALL VISIT EACH LOCATION TO DETERMINE THE ACTUAL DEMOLITION SCOPE.
2. FIELD VERIFY EXISTING CIRCUITS BEFORE COMMENCING REMOVALS.
3. PROVIDE COPY OF PANELBOARD SCHEDULES TO ENGINEER PRIOR TO START OF NEW ELECTRICAL WORK.
4. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE AND INFORMATION AND COORDINATION ISSUES.
5. ALL FEEDER AND BRANCH CIRCUITS LEFT SPARE BY REMOVALS SHALL BE LABELLED SPARE AT SOURCE AND ON SWITCHBOARD/PANELBOARD SCHEDULES.
6. ALL POWER SOURCES SHALL BE REMOVED BACK TO SOURCE OR LAST DEVICE TO REMAIN OR LIMIT OF WORK AREA AS INDICATED ON THE DRAWINGS. POWER SHALL BE TERMINATED IN A WORKMANLIKE AND APPROVED MANNER.
7. EXISTING EQUIPMENT EFFECTED BY REMOVALS AND INTENDED TO REMAIN SHALL BE RECONNECTED AND TESTED TO ENSURE PROPER OPERATION.

(#)	KEYED NOTES
1	DISCONNECT AND REMOVE ALL ELECTRICAL WIRING DEVICES, SWITCHES, OCCUPANCY SENSORS, AND ROOM CONTROLS AND BRANCH CIRCUITS WITHIN THE WORK AREA. REMOVE ASSOCIATED BRANCH CIRCUITS COMPLETE BACK TO SOURCE. LABEL SOURCE CIRCUIT SPARE FOR REUSE.
2	EXISTING PANELBOARDS AND BRANCH CIRCUIT BREAKERS TO REMAIN. BRANCH CIRCUIT BREAKERS MAY BE INDICATED FOR REUSE.
3	DISCONNECT AND REMOVE ALL LIGHT FIXTURES AND ASSOCIATED LIGHT SWITCHES WITHIN THE WORK AREA. REMOVE ASSOCIATED BRANCH CIRCUITS COMPLETE BACK TO SOURCE. LABEL SOURCE CIRCUIT SPARE FOR REUSE.
4	DISCONNECT ALL POWER FROM EXISTING MECHANICAL AND LAB EQUIPMENT SCHEDULED FOR REMOVAL WITHIN THE WORK AREA TO ALLOW REMOVAL BY OTHERS.
5	EXISTING FEEDER CONDUITS AND CONDUCTORS IN THIS AREA ARE TO REMAIN. NO WORK IS ASSOCIATED WITH THESE FEEDERS.
6	FOR AREAS OF CEILING REMOVAL, SUPPORT EXISTING CABLING AND SYSTEMS TO REMAIN. PROVIDE J-HOOKS AND CABLE TRAY SUPPORTS FOR UNSUPPORTED ITEMS.

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Key Plan:

Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

1ST FLOOR - POWER DEMOLITION PLAN

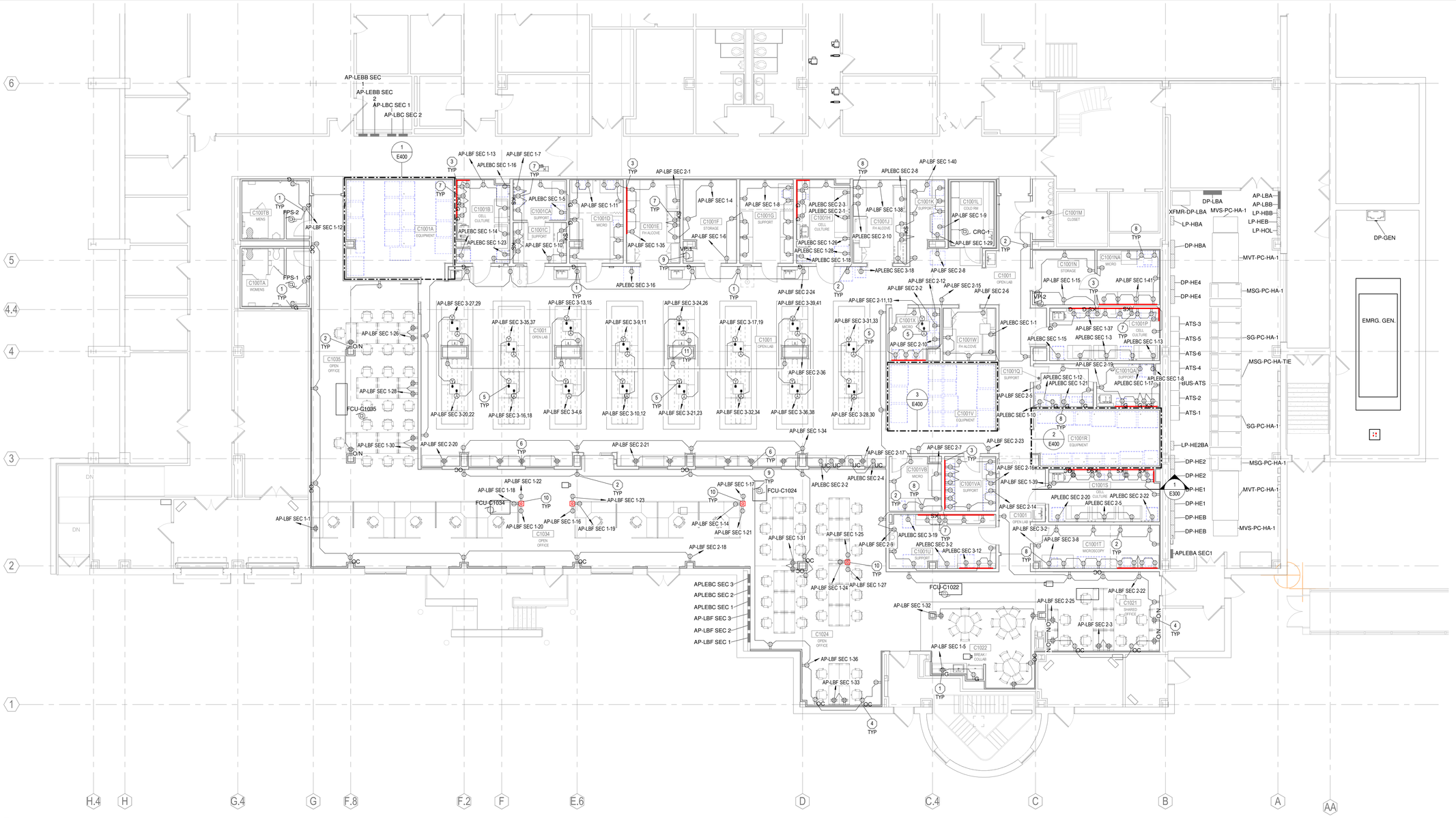
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Revision: **A**

Drawing No. **ED101**

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ORIGINAL SHEET - ARCH E1



1 E101 1ST FLOOR - POWER PLAN - WEST

1/8" = 1'-0"

RECEPTACLE LEGEND

- NORMAL POWER RECEPTACLE
- OC — OCCUPANCY CONTROLLED RECEPTACLE
- O/N — DOUBLE DUPLEX - ONE DUPLEX NORMAL POWER, ONE DUPLEX OCCUPANCY CTRL
- KS — KNEE-SPACE RECEPTACLE
- SPECIAL PURPOSE RECEPTACLE

GENERAL NOTES - POWER

1. REFER TO POWER OUTLET DRAWING E600 FOR ADDITIONAL INFORMATION FOR ARCHITECTURAL, MECHANICAL AND PLUMBING EQUIPMENT POWER REQUIREMENTS.
2. ALL BRANCH CIRCUITRY SHALL BE 2-#12 & 1-#12G IN 3/4" EMT UNLESS NOTED OTHERWISE.
3. ALL LAB BRANCH CIRCUITRY SHALL BE 2-#12 & 1-#12G IN 3/4" EMT UNLESS NOTED OTHERWISE.
4. ALL LAB BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRAL CONDUCTORS.
5. ALL DUPLEX RECEPTACLES LOCATED WITHIN 6'-0" OF THE EDGE OF A SINK SHALL BE GROUND FAULT INTERRUPTING TYPE.

(#) KEYED NOTES

1	PROVIDE NEMA 5-20R DUPLEX GFCI RECEPTACLES MOUNTED 4'-0" AFF AS INDICATED IN BATHROOMS AND NEXT TO LAB SINKS. POWER FROM SOURCES INDICATED.
2	PROVIDE NEMA 5-20R DUPLEX AND QUADRUPLEX RECEPTACLES IN OFFICES AND LAB AREAS AS INDICATED. MOUNT 18" AFF TO CENTER U.O.N. POWER FROM SOURCES INDICATED.
3	PROVIDE SURFACE METAL RACEWAY WITH HORIZONTAL MOUNTED DUPLEX RECEPTACLES MOUNTED 4'-0" AFF TO CENTER. POWER FROM SOURCES INDICATED.
4	PROVIDE MINIMUM 50% RECEPTACLES CONTROLLED BY OCCUPANT SENSORS AS INDICATED IN ACCORDANCE WITH NYSTRETCH ENERGY CODE. REFER TO RECEPTACLE LEGEND THIS SHEET. REFER TO LIGHTING FLOOR PLAN AND DETAILS DWG E500 FOR CONTROL SCHEMATIC.
5	PROVIDE TWO NEMA TWIST-LOCK RECEPTACLES WITH APPROPRIATE ELECTRICAL BOXES FOR EACH CEILING SERVICE PANEL TO POWER LAB BENCHES. COORDINATE WITH ARCHITECT FOR LAB BENCH RECEPTACLE REQUIREMENTS. REFER TO DWG A701 FOR SERVICE PANEL DETAILS. POWER FROM SOURCES INDICATED.
6	PROVIDE NEMA 5-20R QUADRUPLEX RECEPTACLES ALONG WESTERN LAB WALL AS INDICATED. MOUNT 4'-0" AFF TO CENTER. POWER FROM SOURCES INDICATED.
7	PROVIDE NEMA 5-20R DUPLEX RECEPTACLES IN KNEE-SPACE OF CASEWORK. REFER TO ARCHITECTURAL 700 SERIES DRAWINGS FOR MOUNTING HEIGHTS AND PRECISE LOCATIONS. POWER FROM SOURCES INDICATED.
8	PROVIDE ABOVE COUNTER NEMA 5-20R DUPLEX RECEPTACLE MOUNTED 4'-0" AFF. POWER FROM SOURCES INDICATED.
9	PROVIDE POWER TO ARCHITECTURAL, MECHANICAL, AND PLUMBING EQUIPMENT. REFER TO POWER OUTLET SCHEDULE ON DWG E601 FOR ADDITIONAL INFORMATION.
10	PROVIDE WIREMOLD NP800 TELE-POWER POLE IN LOCATIONS INDICATED. OUTFIT WITH DEDICATED CIRCUIT RECEPTACLES AS INDICATED.
11	PROVIDE NEMA 5-20R DUPLEX RECEPTACLES ON LAB COLUMNS AS INDICATED. MOUNT 18" AFF TO CENTER. COORDINATE MOUNTING LOCATION TO CLEAR LAB BENCH LEGS. POWER FROM CIRCUIT INDICATED.

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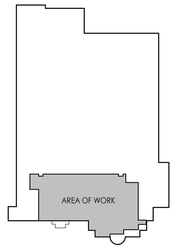
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Key Plan:



Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

1ST FLOOR - POWER PLAN

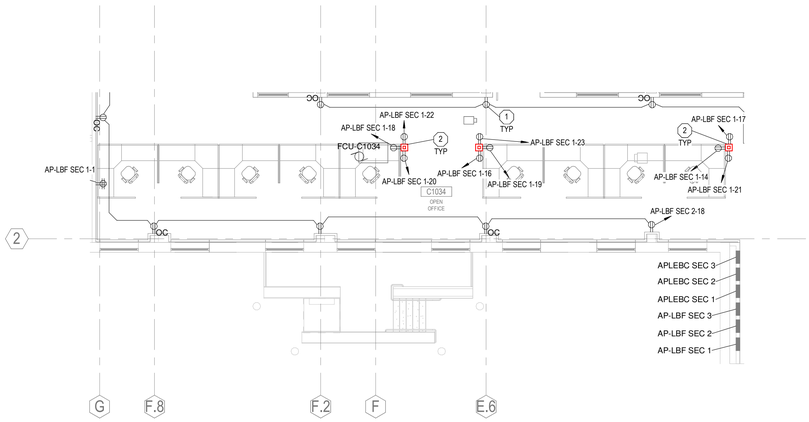
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Revision: **A**

Drawing No. **E101**

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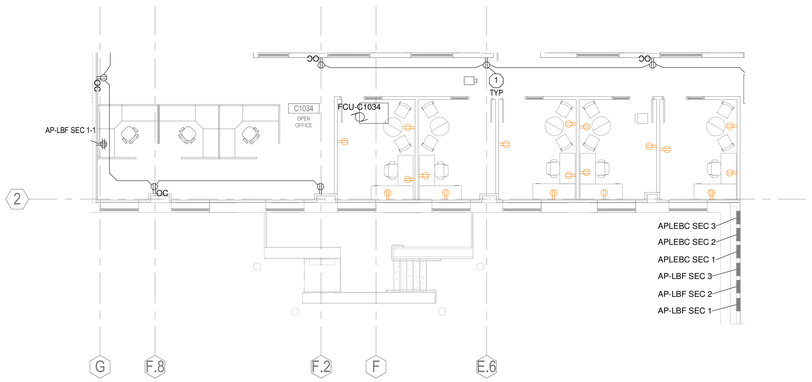
ORIGINAL SHEET - ARCH E1



1 E102 1ST FLOOR - POWER PLAN - ADD ALTERNATE #1

1/8" = 1'-0"

NOTE: NO ELECTRICAL CHANGES APPLY TO ADD ALTERNATE #1.
ARCHITECTURAL ADD ALTERNATE INCLUDED FOR REFERENCE ONLY.



2 E102 1ST FLOOR - POWER PLAN - ADD ALTERNATE #2

1/8" = 1'-0"

NOTE: PROVIDE CIRCUITING TO RECEPTACLES IN (5) ALTERNATE OFFICES. UTILIZE CIRCUITS INDICATED TO FEED POWER POLES ON DRAWING E-101, WITH A MAXIMUM OF (8) DUPLEX RECEPTACLES PER 20A CIRCUIT. MODIFY PANEL SCHEDULES AS REQUIRED.

GENERAL NOTES - POWER

1. REFER TO POWER OUTLET DRAWING E600 FOR ADDITIONAL INFORMATION FOR ARCHITECTURAL, MECHANICAL AND PLUMBING EQUIPMENT POWER REQUIREMENTS.
2. ALL BRANCH CIRCUITRY SHALL BE 2-#12 & 1-#12G IN 3/4" EMT UNLESS NOTED OTHERWISE.
3. ALL LAB BRANCH CIRCUITRY SHALL BE 2-#12 & 1-#12G IN 3/4" EMT UNLESS NOTED OTHERWISE.
4. ALL LAB BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRAL CONDUCTORS.
5. ALL DUPLEX RECEPTACLES LOCATED WITHIN 6'-0" OF THE EDGE OF A SINK SHALL BE GROUND FAULT INTERRUPTING TYPE.

#	KEYED NOTES
1	PROVIDE NEMA 5-20R DUPLEX AND QUADRUPLEX RECEPTACLES IN OFFICES AND LAB AREAS AS INDICATED. MOUNT 18" AFF TO CENTER U.O.N. POWER FROM SOURCES INDICATED.
2	PROVIDE WIREMOLD NP800 TELE-POWER POLE IN LOCATIONS INDICATED. OUTFIT WITH DEDICATED CIRCUIT RECEPTACLES AS INDICATED.

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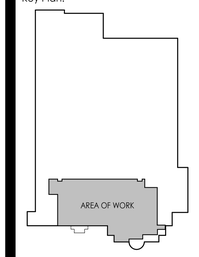
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Key Plan:



Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

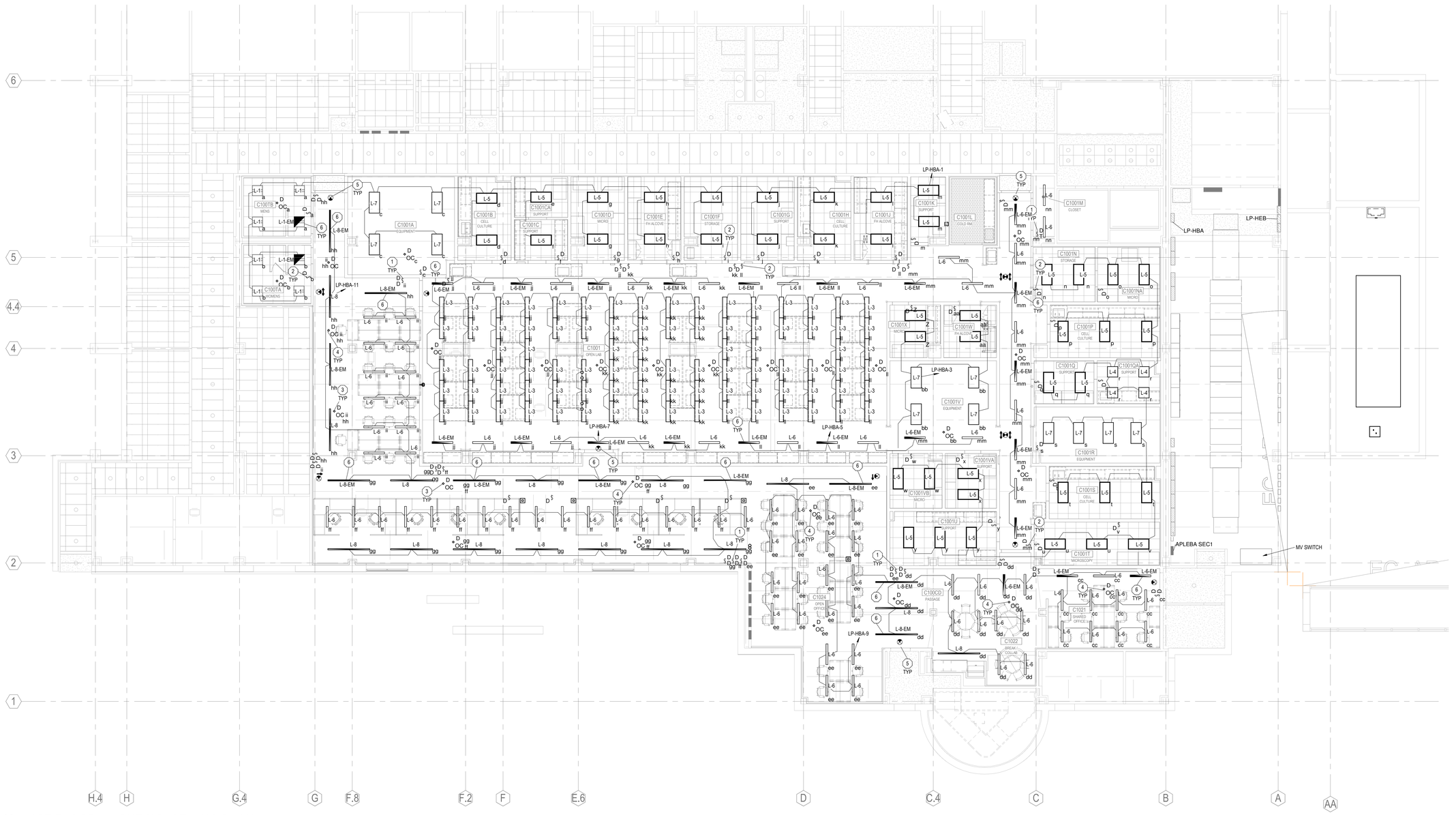
Project No.:225306010

1ST FLOOR - POWER PLAN - ADD ALTERNATES

Scale: As indicated
Revision: **A**
Drawing No. **E102**

ORIGINAL SHEET - ARCH E1

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1 1ST FLOOR - LIGHTING CEILING PLAN

E121

1/8" = 1'-0"

GENERAL NOTES - LIGHTING

1. REFER TO E602 FOR LIGHT FIXTURE SCHEDULE.
2. REFER TO E501 FOR LIGHTING CONTROL DETAILS. REFER TO POWER FLOOR PLANS FOR RECEPTACLES CONTROLLED BY OCCUPANCY SENSORS.
3. COORDINATE CEILING MOUNTED OCCUPANT SENSORS AND LIGHTING CONTROL EQUIPMENT WITH ALL OTHER CEILING MOUNTED ITEMS - LIGHTS, DIFFUSERS, SPRINKLERS, ETC.
4. ALL LIGHTING CIRCUITS SHALL BE MINIMUM 2#12 COPPER AND 1#12 GROUND IN MINIMUM 3/4"C.

(#) KEYED NOTES

1	PROVIDE DIGITAL DIMMING RELAY IN SPACES WITH DIGITAL DIMMER SWITCHES. REFER TO DWG E500 FOR LIGHTING CONTROL SCHEMATIC.
2	PROVIDE DIGITAL RELAY IN SPACES WITH DIGITAL SWITCHES. REFER TO DWG E500 FOR LIGHTING CONTROL SCHEMATIC.
3	PROVIDE MULTI ZONE CONTROL SYSTEM. REFER TO DWG E500 FOR SCHEMATIC.
4	OCCUPANCY CONTROLLED RECEPTACLES IN THIS AREA. REFER TO POWER PLAN AND DWG E500 FOR DETAILS.
5	POWER ALL EXIT SIGNS FROM EMERGENCY PANEL LP-HEB, CKT #6.
6	PROVIDE EMERGENCY LIGHTING FIXTURE WITH INTEGRAL BACKUP BATTERY FROM MANUFACTURER. EMERGENCY FIXTURES REQUIRE EXTRA SENSING CIRCUIT OF UNSWITCHED POWER CIRCUIT FEEDING LIGHTS AND DIMMING BYPASS CIRCUIT.

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WILLIAM T MCMAHAN
LICENSED PROFESSIONAL ENGINEER
No. 070117
07/02/2026

Key Plan:

AREA OF WORK

Cornell University.

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

1ST FLOOR - LIGHTING CEILING PLAN

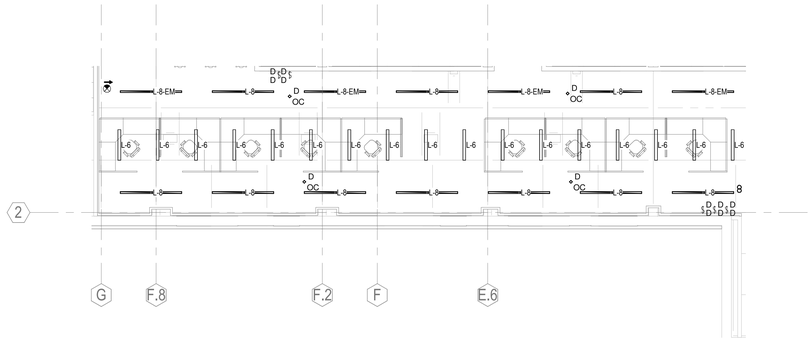
Scale: As indicated

Revision: **A**

Drawing No. **E121**

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ORIGINAL SHEET - ARCH E1

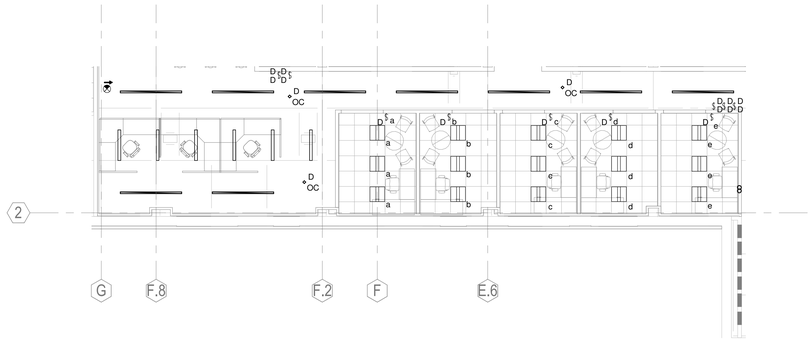


1 1ST FLOOR - LIGHTING CEILING PLAN - ADD ALTERNATE #1

E122

1/8" = 1'-0"

NOTE: NO ELECTRICAL CHANGES APPLY TO ADD ALTERNATE #1.
ARCHITECTURAL ADD ALTERNATE INCLUDED FOR REFERENCE ONLY.



2 1ST FLOOR - LIGHTING CEILING PLAN - ADD ALTERNATE #2

E122

1/8" = 1'-0"

NOTE: PROVIDE CIRCUITING TO LIGHT FIXTURES IN (5) ALTERNATE OFFICES. UTILIZE CIRCUITS INDICATED TO POWER LIGHT FIXTURES ON E-121. MODIFY PANEL SCHEDULES AS REQUIRED.

GENERAL NOTES - LIGHTING

1. REFER TO E602 FOR LIGHT FIXTURE SCHEDULE.
2. REFER TO E501 FOR LIGHTING CONTROL DETAILS. REFER TO POWER FLOOR PLANS FOR RECEPTACLES CONTROLLED BY OCCUPANCY SENSORS.
3. COORDINATE CEILING MOUNTED OCCUPANT SENSORS AND LIGHTING CONTROL EQUIPMENT WITH ALL OTHER CEILING MOUNTED ITEMS - LIGHTS, DIFFUSERS, SPRINKLERS, ETC.
4. ALL LIGHTING CIRCUITS SHALL BE MINIMUM 2#12 COPPER AND 1#12 GROUND IN MINIMUM 3/4"C.

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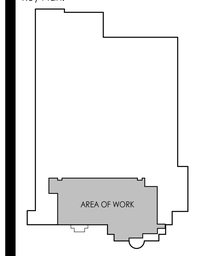
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Key Plan:



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Project No.:225306010

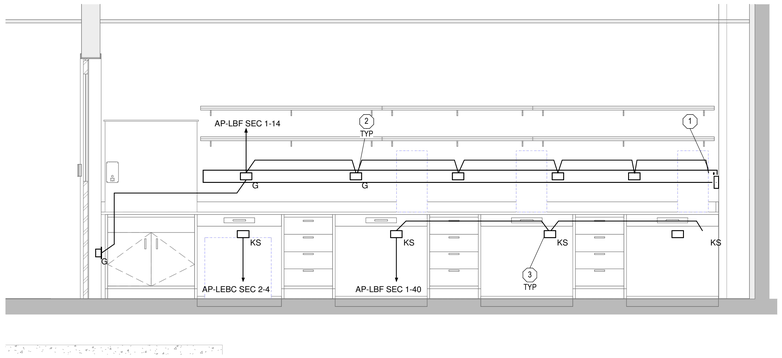
1ST FLOOR - LIGHTING CEILING PLAN - ADD ALTERNATES

Scale: As indicated

Revision: **A**

Drawing No. **E122**

ORIGINAL SHEET - ARCH E1



1 E300 **TYPICAL KNEESPACE SECTION**

1/2" = 1'-0"

GENERAL NOTES - POWER

1. REFER TO POWER OUTLET DRAWING E600 FOR ADDITIONAL INFORMATION FOR ARCHITECTURAL, MECHANICAL AND PLUMBING EQUIPMENT POWER REQUIREMENTS.
2. ALL BRANCH CIRCUITRY SHALL BE 2-#12 & 1-#12G IN 3/4" EMT UNLESS NOTED OTHERWISE.
3. ALL LAB BRANCH CIRCUITRY SHALL BE 2-#12 & 1-#12G IN 3/4" EMT UNLESS NOTED OTHERWISE.
4. ALL LAB BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRAL CONDUCTORS.
5. ALL DUPLEX RECEPTACLES LOCATED WITHIN 6'-0" OF THE EDGE OF A SINK SHALL BE GROUND FAULT INTERRUPTING TYPE.

(#)	KEYED NOTES
1	PROVIDE METALLIC SURFACE RACEWAY WITH HORIZONTAL MOUNTED DUPLEX RECEPTACLES MOUNTED 4'-0" AFF TO CENTER. POWER FROM SOURCES INDICATED.
2	PROVIDE NEMA 5-20R DUPLEX GFCI RECEPTACLES MOUNTED 4'-0" AFF AS INDICATED IN BATHROOMS AND NEXT TO LAB SINKS. POWER FROM SOURCES INDICATED.
3	PROVIDE NEMA 5-20R DUPLEX RECEPTACLES IN KNEE-SPACE OF CASEWORK. REFER TO ARCHITECTURAL 700 SERIES DRAWINGS FOR MOUNTING HEIGHTS AND PRECISE LOCATIONS. POWER FROM SOURCES INDICATED.

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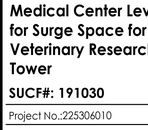
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Project No.:225306010

ENLARGED SECTIONS

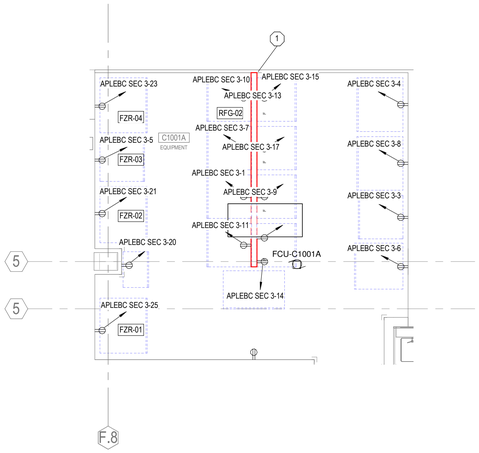
Scale: As indicated

Revision: **A**

Drawing No. **E300**

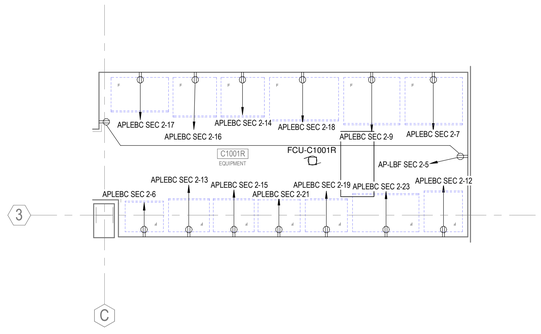
ORIGINAL SHEET - ARCH E1

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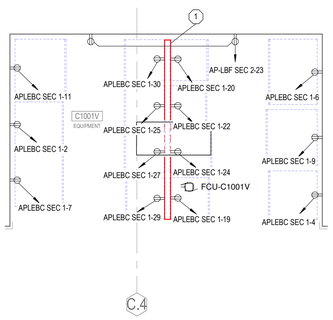
1 E400 1ST FLOOR - ENLARGED POWER PLAN - C1001 EQUIPMENT

1/4" = 1'-0"



2 E400 1ST FLOOR - ENLARGED POWER PLAN - C1001R EQUIPMENT

1/4" = 1'-0"



3 E400 1ST FLOOR - ENLARGED POWER PLAN - C1001V EQUIPMENT

1/4" = 1'-0"

GENERAL NOTES - POWER

1. REFER TO POWER OUTLET DRAWING E600 FOR ADDITIONAL INFORMATION FOR ARCHITECTURAL, MECHANICAL AND PLUMBING EQUIPMENT POWER REQUIREMENTS.
2. ALL BRANCH CIRCUITRY SHALL BE 2-#12 & 1-#12G IN 3/4" EMT UNLESS NOTED OTHERWISE.
3. ALL LAB BRANCH CIRCUITRY SHALL BE 2-#12 & 1-#12G IN 3/4" EMT UNLESS NOTED OTHERWISE.
4. ALL LAB BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRAL CONDUCTORS.
5. ALL DUPLEX RECEPTACLES LOCATED WITHIN 6'-0" OF THE EDGE OF A SINK SHALL BE GROUND FAULT INTERRUPTING TYPE.

#	KEYED NOTES
1	PROVIDE SURFACE METAL RACEWAY WITH INTEGRAL DUPLEX RECEPTACLES MOUNTED TO FLOOR OF EQUIPMENT ROOMS AS INDICATED. COORDINATE WITH ARCHITECT FOR EXACT RACEWAY MOUNTING LOCATION.

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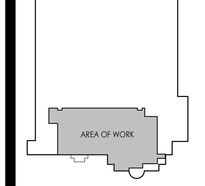
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SUCF#: 191030

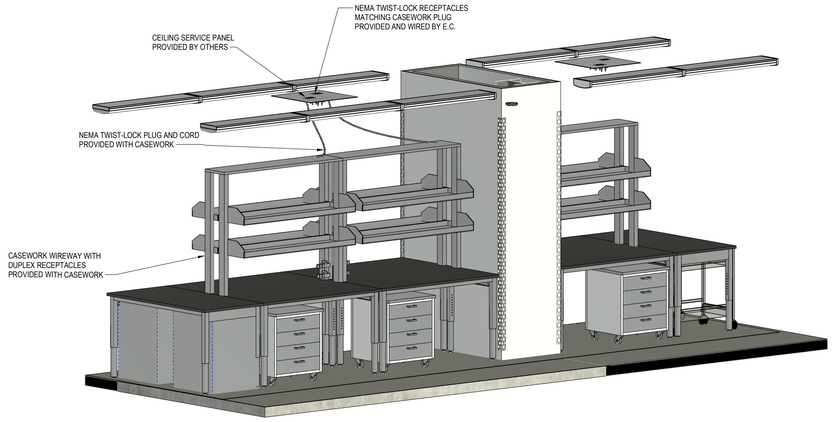
Project No.:225306010

ENLARGED PLANS

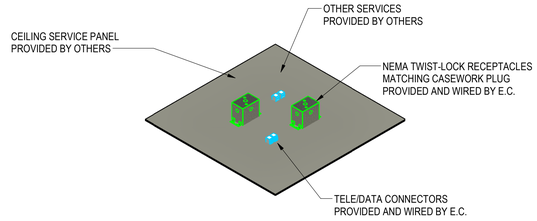
Scale: As indicated
Revision: **A**
Drawing No. **E400**

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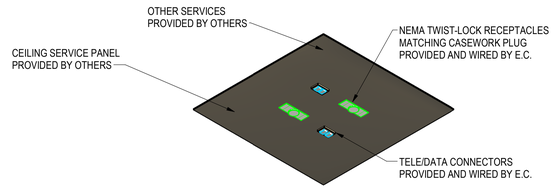
ORIGINAL SHEET - ARCH E1



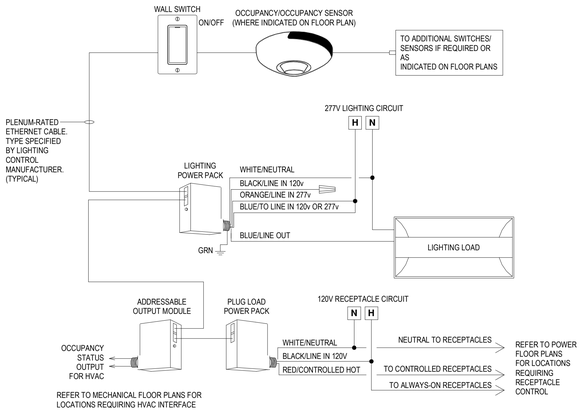
1 E500 OPEN LAB BENCH DETAIL



2 E500 CEILING SERVICE PANEL DETAIL

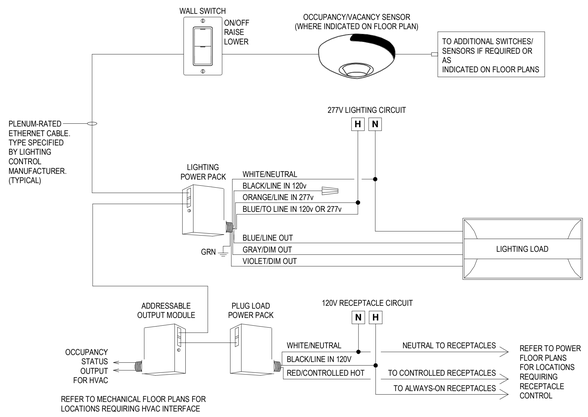


3 E500 CEILING SERVICE PANEL BOTTOM VIEW

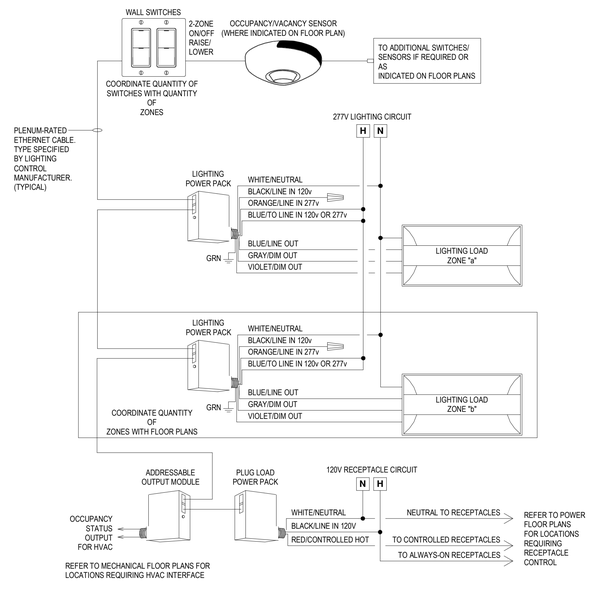


NOTES:
1. PROGRAM OCCUPANT SENSOR TO AUTO OFF, MANUAL ON (VACANCY) CONTROL.
2. COORDINATE WITH FLOOR PLANS FOR OCCUPANT SENSOR TYPE (INTEGRAL TO WALL SWITCH OR CEILING MOUNTED)

ON/OFF AND OCCUPANT SENSOR CONTROL



SINGLE ZONE VACANCY & DIMMING CONTROL



NOTES:
1. THIS DETAIL APPLIES TO ROOMS WHICH CONTAIN MULTIPLE LIGHTING ZONES. COORDINATE QUANTITY OF LIGHTING ZONES WITH FLOOR PLANS.

MULTI-ZONE VACANCY & DIMMING

GENERAL NOTES

1. REFER TO LIGHTING FLOOR PLANS FOR LIGHTING CONTROL TYPE ASSIGNED TO EACH ROOM OR AREA. LIGHTING CONTROL TYPE CORRESPONDS DIRECTLY TO THE LIGHTING CONTROL DETAILS.
2. WIRING DIAGRAMS ARE BASED ON A STANDALONE, NON-NETWORKED DIGITAL LIGHTING CONTROL SYSTEM. WIRING MAY DIFFER FOR SUBMITTED MANUFACTURERS COMPONENTS. THE E.C. SHALL PROVIDE ALL COMPONENTS, POWERPACKS, WIRING, BACKBOXES, CONDUIT, AND ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM.
3. LIGHTING LOADS SHOWN ON DETAILS ARE FOR SCHEMATIC PURPOSES ONLY. REFER TO LIGHTING FLOOR PLANS FOR ACTUAL FIXTURE TYPES (AND VOLTAGES) BEING CONTROLLED.
4. LIGHTING CONTROL ZONES ARE INDICATED BY LOWERCASE LETTERS - "a", "b", ETC. - AND CORRESPOND TO CONTROL ZONE DESIGNATIONS ADJACENT TO LIGHT FIXTURES ON THE LIGHTING FLOOR PLANS. PROVIDE QUANTITY OF ZONES AS REQUIRED ON FLOOR PLANS.
5. QUANTITY OF OCCUPANCY SENSORS/PHOTOCELL DEVICES SHALL BE AS REQUIRED FOR COVERAGE. PROVIDE MINIMUM QUANTITY OF SWITCHES AS INDICATED ON FLOOR PLANS.
6. REFER TO POWER DRAWINGS FOR ADDITIONAL INFORMATION ON CONTROLLED RECEPTACLES.

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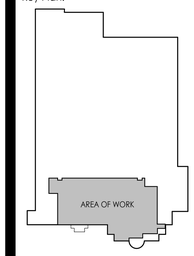
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07/02/2026

Key Plan:



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Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

ELECTRICAL DETAILS SHEET

Scale: 12" = 1'-0"

Revision: **A**

Drawing No. **E500**

ORIGINAL SHEET - ARCH E1

<PCS location in Project Information>
7/2/2026 11:42:44 PM

Stantec

Name: **AP-LBF SEC 1** | Volts: 208Y/120V | Mains Type: MCB | Type: NQ Distribution Panelboard
Location: OPEN OFFICE C1024 | Phases: 3 | Mains Rating: 150 A | AIC Rating: 10kA
Supply From: | Wires: 4 | Mounting: Flush
Serves: | Lugs: | Enclosure: Indoor

Notes:

CKT	Circuit Description	Trip	Poles	CB	A		B		C		CB	Poles	Trip	Circuit Description	CKT
1	RECEPTACLE OPEN OFFICE C1034	20 A	1		360	350						1	20 A	**HVAC**	2
3	RECEPTACLE CELL CULTURE C1001S	20 A	1				540	900				1	20 A	**RECEPTACLE STORAGE C1001F**	4
5	RECPT SINK C1022	20 A	1						540	900		1	20 A	**RECPT C1001E, C1001F, C1001G**	6
7	RECEPTACLE ROOM C1001CA, C1001C	20 A	1		1260	1260						1	20 A	RECPT C1001G	8
9	**RECEPTACLE SUPPORT C1001K**	20 A	1				1000	1080				1	20 A	RECPT C1001C, C1001CA	10
11	**RECPT C1001D**	20 A	1						1440	1920		1	20 A	RECPT C1001A, B, FPS-1, FPS-2	12
13	RECPT C1001B	20 A	1		1440	500						1	20 A	RECEPTACLE OPEN OFFICE C1034	14
15	RECPT C1001N	20 A	1				1440	500				1	20 A	RECEPTACLE OPEN OFFICE C1034	16
17	RECEPTACLE OPEN OFFICE C1034	20 A	1						500	500		1	20 A	RECEPTACLE OPEN OFFICE C1034	18
19	**RECEPTACLE OPEN OFFICE C1034**	20 A	1		500	500						1	20 A	RECEPTACLE OPEN OFFICE C1034	20
21	**RECEPTACLE OPEN OFFICE C1034**	20 A	1				500	500				1	20 A	RECEPTACLE OPEN OFFICE C1034	22
23	**RECEPTACLE OPEN OFFICE C1034**	20 A	1						500	500		1	20 A	RECEPTACLE OPEN OFFICE C1024	24
25	**RECEPTACLE OPEN OFFICE C1024**	20 A	1		500	720						1	20 A	**RECEPTACLE OPEN OFFICE C1035**	26
27	**RECEPTACLE OPEN OFFICE C1024**	20 A	1				500	720				1	20 A	**RECEPTACLE OPEN OFFICE C1035**	28
29	**RECPT C1001K**	20 A	1						720	720		1	20 A	RECEPTACLE OPEN OFFICE C1035	30
31	**RECEPTACLE OPEN OFFICE C1024**	20 A	1		720	1260						1	20 A	RECPT C1022	32
33	**RECEPTACLE OPEN OFFICE C1024**	20 A	1				720	1260				1	20 A	RECPT OPEN LAB, C1024 OPEN OFFICE	34
35	**RECPT C1001D, C1001E**	20 A	1						1260	1440		1	20 A	RECPT C1024, C1034 OPEN OFFICE	36
37	**RECPT C1001P**	20 A	1		1440	1440						1	20 A	RECPT C1001H, C1001J	38
39	**RECPT C1001S**	20 A	1				1440	1440				1	20 A	RECPT C1001J, C1001K	40
41	**RECPT C1001NA**	20 A	1						1440	0	--	1	20 A	SPARE	42
			Total Load:		**12.25 kVA**		**12.54 kVA**		**12.38 kVA**						
			Total Amps:		**102 A**		**105 A**		**103 A**						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	1550 VA	100.00%	1550 VA	
Receptacle	35620 VA	64.04%	22810 VA	**Total Conn. Load: 37170 VA**
				Total Est. Demand: 24360 VA
				Total Conn.: 103 A
				Total Est. Demand: 68 A

CB Legend (blank = circuit breaker):
G = GFCI S = Shunt Trip D = Switching Duty A = AFCI H = HID Rated C = HACR Rated † = Existing Circuit ‡ = Revised Circuit

Notes:

Stantec

Name: **APLEBC SEC 1** | Volts: 208Y/120V | Mains Type: MCB | Type: NQ Distribution Panelboard
Location: OPEN OFFICE C1024 | Phases: 3 | Mains Rating: 150 A | AIC Rating: 10kA
Supply From: | Wires: 4 | Mounting: Flush
Serves: | Lugs: | Enclosure: Indoor

Notes:

CKT	Circuit Description	Trip	Poles	CB	A		B		C		CB	Poles	Trip	Circuit Description	CKT
1	FUME HOOD C1001W	20 A	1		180	1500						1	20 A	-80 FREEZER C1001V	2
3	BIOSAFETY CABINETS C1001P	20 A	1				540	1500				1	20 A	-80 FREEZER C1001V	4
5	-20 FREEZER C1001CA	20 A	1						1000	1500		1	20 A	-80 FREEZER C1001V	6
7	-80 FREEZER C1001V	20 A	1		1500	1000						1	20 A	INCUBATOR C1001QA	8
9	-80 FREEZER C1001V	20 A	1				1500	1000				1	20 A	RECEPTACLE SUPPORT C1001Q	10
11	-80 FREEZER C1001V	20 A	1						1500	1000		1	20 A	SHAKER C1001Q	12
13	INCUBATOR C1001P	20 A	1		1000	1000						1	20 A	INCUBATOR C1001B	14
15	INCUBATOR C1001P	20 A	1				1000	1000				1	20 A	INCUBATOR C1001B	16
17	INCUBATOR C1001QA	20 A	1						1000	1000		1	20 A	INCUBATOR C1001H	18
19	-20 FREEZER C1001V	20 A	1		1000	1000						1	20 A	-20 FREEZER C1001V	20
21	CENTRIFUGE C1001Q	20 A	1				1000	1000				1	20 A	-20 FREEZER C1001V	22
23	INCUBATOR C1001B	20 A	1						1000	1000		1	20 A	-20 FREEZER C1001V	24
25	-20 FREEZER C1001V	20 A	1		1000	1000						1	20 A	-20 FREEZER C1001H	26
27	-20 FREEZER C1001V	20 A	1				1000	1000				1	20 A	-20 FREEZER C1001H	28
29	-20 FREEZER C1001V	20 A	1						1000	1000		1	20 A	-20 FREEZER C1001V	30
31	SPARE	20 A	1	--	0	0					--	1	20 A	SPARE	32
33	SPARE	20 A	1	--			0	0			--	1	20 A	SPARE	34
35	SPARE	20 A	1	--					0	0	--	1	20 A	SPARE	36
37	SPARE	20 A	1	--	0	0					--	1	20 A	SPARE	38
39	SPARE	20 A	1	--			0	0			--	1	20 A	SPARE	40
41	SPARE	20 A	1	--					0	0	--	1	20 A	SPARE	42
			Total Load:		**10.18 kVA**		**10.54 kVA**		**11.00 kVA**						
			Total Amps:		**85 A**		**88 A**		**92 A**						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	31720 VA	65.76%	20860 VA	
				Total Conn. Load: 31720 VA
				Total Est. Demand: 20860 VA
				Total Conn.: 88 A
				Total Est. Demand: 58 A

CB Legend (blank = circuit breaker):
G = GFCI S = Shunt Trip D = Switching Duty A = AFCI H = HID Rated C = HACR Rated † = Existing Circuit ‡ = Revised Circuit

Notes:

Stantec

Name: **LP-HBA** | Volts: 480Y/277V | Mains Type: MCB | Type: NF Distribution Panelboard
Location: ELECTRICAL C100UC | Phases: 3 | Mains Rating: 100 A | AIC Rating: 10kA
Supply From: | Wires: 4 | Mounting: Surface
Serves: | Lugs: | Enclosure: Indoor

Notes:

CKT	Circuit Description	Trip	Poles	CB	A		B		C		CB	Poles	Trip	Circuit Description	CKT
1	C1001 TO C1009, BATHROOM LIGHTING	20 A	1		1582	0					--	1	20 A	SPARE	2
3	C1011 TO C1018 LIGHTING	20 A	1				2257	0			--	1	20 A	SPARE	4
5	LAB LIGHTING SOUTH SECTION	20 A	1						2074	0	--	1	20 A	SPARE	6
7	LAB LIGHTING NORTH SECTION	20 A	1		2580	0					--	1	20 A	SPARE	8
9	LIGHTING SHARED OFFICE C1021	20 A	1				1710	0			--	1	20 A	SPARE	10
11	LIGHTING OPEN OFFICE C1035	20 A	1						2157	0	--	1	20 A	SPARE	12
13	SPACE	--	1	--	--	0					--	1	20 A	SPARE	14
15	SPACE	--	1	--			--	0			--	1	20 A	SPARE	16
17	SPARE	20 A	1	--					0	0	--	1	20 A	SPARE	18
19	SPARE	20 A	1	--	0	0					--	1	20 A	SPARE	20
21	SPARE	20 A	1	--			0	0			--	1	20 A	SPARE	22
23	SPARE	20 A	1	--					0	0	--	1	20 A	SPARE	24
25	SPARE	20 A	1	--	0	0					--	1	20 A	SPARE	26
27	SPARE	20 A	1	--			0	0			--	1	20 A	SPARE	28
29	SPARE	20 A	1	--					0	0	--	2	20 A	SPARE	30
31	SPARE	20 A	2	--	0	0					--	--	--	--	32
33	--	--	--	--			0	0			--	2	20 A	SPARE	34
35	SPARE	20 A	2	--					0	0	--	--	--	--	36
37	--	--	--	--	0	0					--	2	20 A	SPARE	38
39	SPARE	20 A	2	--			0	0			--	--	--	--	40
41	--	--	--	--					0	0	--	1	20 A	SPARE	42
			Total Load:		**4.16 kVA**		**3.97 kVA**		**4.23 kVA**						
			Total Amps:		**15 A**		**14 A**		**15 A**						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	12359 VA	125.00%	15448 VA	
Other	0 VA	0.00%	0 VA	**Total Conn. Load: 12359 VA**
				Total Est. Demand: 15448 VA
				Total Conn.: 15 A
				Total Est. Demand: 19 A

CB Legend (blank = circuit breaker):
G = GFCI S = Shunt Trip D = Switching Duty A = AFCI H = HID Rated C = HACR Rated † = Existing Circuit ‡ = Revised Circuit

Notes:

Stantec

Name: **AP-LBF SEC 2** | Volts: 208Y/120V | Mains Type: MCB | Type: NQ Distribution Panelboard
Location: OPEN OFFICE C1024 | Phases: 3 | Mains Rating: 150 A | AIC Rating: 10kA
Supply From: | Wires: 4 | Mounting: Flush
Serves: | Lugs: | Enclosure: Indoor

Notes:

CKT	Circuit Description	Trip	Poles	CB	A		B		C		CB	Poles	Trip	Circuit Description	CKT
1	RECPT C1001E	20 A	1		180	1000						1	20 A	RECEPTACLE MICRO C1001X	2
3	RECEPTACLE SHARED OFFICE C1021	20 A	1				720	1080				1	20 A	FLOOR BOX, RECPT C1035, C1001A	4
5	RECPT C1001Q	20 A	1						1080	1440		1	20 A	RECPT C1001W, CORRIDOR, CLOSET	6
7	RECPT C1001U, C1001VB	20 A	1		1440	1000						1	20 A	RECEPTACLE OPEN LAB C1001	8
9	RECPT C1001U, C1024	20 A	1				1440	1000				1	20 A	RECPT C1001X	10
11	CEILING RECPTS C1001X	20 A	2						540	1000		1	20 A	RECPT C1001X	12
13	--	--	--	--	540	1080						1	20 A	RECPT C1001VA	14
15	RECPT C1001X, OPEN LAB	20 A	1				1080	1260				1	20 A	RECPT C1001VA	16
17	RECPT OPEN LAB SOUTH WALL	20 A	1						1080	1260		1	20 A	RECPT WEST, SOUTH WALL OFFICES	18
19	RECPT C1001QA	20 A	1		1260	1440						1	20 A	RECPT OPEN LAB SOUTH WALL	20
21	RECPT OPEN LAB SOUTH WALL	20 A	1				1440	1440				1	20 A	RECPT C1021, CORRIDOR	22
23	RECPT OPEN LAB, C1001 V, VB	20 A	1						1440	1440		1	20 A	RECPT OPEN LAB NORTH WALL	24
25	RECPT C1021	20 A	1		1440	0					--	1	20 A	SPARE	26
27	SPARE	20 A	1	--			0	700				1	20 A	FCU-C1035	28
29	FCU-C1034	20 A	1						1000	1000		1	20 A	FCU-C1024	30
31	FCU-C1022	20 A	1		700	350						1	20 A	FCU-C1001V	32
33	FCU-C1001R	20 A	1				350	600				1	20 A	VP-2	34
35	LAB EQUIPMENT STORAGE C1001F	20 A	1						600	1440		1	20 A	RECEPTACLE OPEN LAB C1001	36
37	SPARE	20 A	1	--	0	0					--	1	20 A	SPARE	38
39	SPARE	20 A	1	--			0	0			--	1	20 A	SPARE	40
41	SPARE	20 A	1	--					0	0	--	1	20 A	SPARE	42
			Total Load:		**10.43 kVA**		**11.11 kVA**		**13.32 kVA**						
			Total Amps:		**87 A**		**93 A**		**112 A**						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	4100 VA	100.00%	4100 VA	
Receptacle	29560 VA	66.91%	19780 VA	**Total Conn. Load: 34860 VA**
Lab Equipment	1200 VA	65.00%	780 VA	**Total Est. Demand: 24060 VA**
				Total Conn.: 97 A
				Total Est. Demand: 68 A

CB Legend (blank = circuit breaker):
G = GFCI S = Shunt Trip D = Switching Duty A = AFCI H = HID Rated C = HACR Rated † = Existing Circuit ‡ = Revised Circuit

Notes:

Stantec

Name: **APLEBC SEC 2** | Volts: 208Y/120V | Mains Type: MCB | Type: NQ Distribution Panelboard
Location: OPEN OFFICE C1024 | Phases: 3 | Mains Rating: 150 A | AIC Rating: 10kA
Supply From: | Wires: 4 | Mounting: Flush
Serves: | Lugs: | Enclosure: Indoor

Notes:

CKT	Circuit Description	Trip	Poles	CB	A		B		C		CB	Poles	Trip	Circuit Description	CKT
1	BIOSAFETY CABINET C1001H	20 A	1		180	360						1	20 A	POWER OPEN LAB C1001	2
3	BIOSAFETY CABINET C1001H	20 A	1				180	360				1	20 A	POWER OPEN LAB C1001	4
5	POWER CELL CULTURE C1001S	20 A	1						540	1500		1	20 A	POWER EQUIPMENT C1001R	6
7	POWER EQUIPMENT C1001R	20 A	1		1500	180						1	20 A	FUME HOOD C1001J	8
9	POWER EQUIPMENT C1001R	20 A	1				1500	360				1	20 A	FUME HOOD C1001J	10
11	RECEPTACLE CELL CULTURE C1001S	20 A	1						180	500		1	20 A	POWER EQUIPMENT C1001R	12
13	POWER EQUIPMENT C1001R	20 A	1		500	1000						1	20 A	POWER EQUIPMENT C1001R	14
15	POWER EQUIPMENT C1001R	20 A	1				500	1000				1	20 A	POWER EQUIPMENT C1001R	16
17	POWER EQUIPMENT C1001R	20 A	1						1000	1000		1	20 A	POWER EQUIPMENT C1001R	18
19	POWER EQUIPMENT C1001R	20 A	1		1000	1000						1	20 A	POWER CELL CULTURE C1001S	20
21	POWER EQUIPMENT C1001R	20 A	1				1000	1000				1	20 A	POWER CELL CULTURE C1001S	22
23	POWER EQUIPMENT C1001R	20 A	1						1000	400		3	20 A	LAB EQUIPMENT COLD RM C1001L	24
25	SPARE	20 A	1	--	0	400					--	--	--	--	26
27	SPARE	20 A	1	--			0	400			--	--	--	--	28
29	SPARE	20 A	1	--					0	0	--	1	20 A	SPARE	30
31	SPARE	20 A	1	--	0	0					--	1	20 A	SPARE	32
33	SPARE	20 A	1	--			0	0			--	1	20 A	SPARE	34
35	SPARE	20 A	1	--					0	0	--	1	20 A	SPARE	36
37	SPARE	20 A	1	--	0	0					--	1	20 A	SPARE	38
39	SPARE	20 A	1	--			0	0			--	1	20 A	SPARE	40
41	SPARE	20 A	1	--					0	0	--	1	20 A	SPARE	42
			Total Load:		**6.12 kVA**		**6.30 kVA**		**6.12 kVA**						
			Total Amps:		**51 A**		**53 A**		**51 A**						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	17340 VA	78.84%	13670 VA	
Lab Equipment	1200 VA	65.00%	780 VA	**Total Conn. Load: 18540 VA**
				Total Est. Demand: 14450 VA
				Total Conn.: 51 A
				Total Est. Demand: 40 A

CB Legend (blank = circuit breaker):
G = GFCI S = Shunt Trip D = Switching Duty A = AFCI H = HID Rated C = HACR Rated † = Existing Circuit ‡ = Revised Circuit

Notes:

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Name: **AP-LBF SEC 3** | Volts: 208Y/120V | Mains Type: MCB | Type: NQ Distribution Panelboard
Location: OPEN OFFICE C1024 | Phases: 3 | Mains Rating: 150 A | AIC Rating: 10kA
Supply From: | Wires: 4 | Mounting: Flush
Serves: | Lugs: | Enclosure: Indoor

Notes:

CKT	Circuit Description	Trip	Poles	CB	A		B		C		CB	Poles	Trip	Circuit Description	CKT
1	NOT AVAILABLE - IN USE	30 A	2	--	0	1080						1	20 A	RECPT C1001T	2
3	--	--	--	--			0	540				2	20 A	OPEN LAB CEILING PANEL RECPT	4
5	NOT AVAILABLE - IN USE	30 A	2	--					0	540	--	--	--	--	6
7	--	--	--	--	0	1440						1	20 A	RECPT C1001T	8
9	OPEN LAB CEILING PANEL RECPT	20 A	2				540	540				2	20 A	OPEN LAB CEILING PANEL RECPT	10
11	--	--	--	--					540	540	--	--	--	--	12
13	OPEN LAB CEILING PANEL RECPT	20 A	2		540	0					--	1	20 A	SPARE	14
15	--	--	--	--			540	540				2	20 A	OPEN LAB CEILING PANEL RECPT	16
17	OPEN LAB CEILING PANEL RECPT	20 A	2						540	540	--	--	--	--	18
19	--	--	--	--	540	540						2	20 A	OPEN LAB CEILING PANEL RECPT	20
21	OPEN LAB CEILING PANEL RECPT	20 A	2				540	540							22
23	--	--	--	--					540	540		2	20 A	OPEN LAB CEILING PANEL RECPT	24
25	SPARE	20 A	1	--	0	540					--	--	--	--	26
27	OPEN LAB CEILING PANEL RECPT	20 A	2				540	540				2	20 A	OPEN LAB CEILING PANEL RECPT	28
29	--	--	--	--					540	540	--	--	--	--	30
31	OPEN LAB CEILING PANEL RECPT	20 A	2		540	540						2	20 A	OPEN LAB CEILING PANEL RECPT	32
33	--	--	--	--			540	540				--	--	--	34
35	OPEN LAB CEILING PANEL RECPT	20 A	2						540	540		2	20 A	OPEN LAB CEILING PANEL RECPT	36
37	--	--	--	--	540	540						--	--	--	38
39	OPEN LAB CEILING PANEL RECPT	20 A	2				540	0			--	1	20 A	SPARE	40
41	--	--	--	--					540	0	--	1	20 A	SPARE	42
			Total Load:		**6.84 kVA**		**6.48 kVA**		**6.48 kVA**						
			Total Amps:		**57 A**		**54 A**		**54 A**						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	19800 VA	75.25%	14900 VA	
				Total Conn. Load: 19800 VA
				Total Est. Demand: 14900 VA
				Total Conn.: 55 A
				Total Est. Demand: 41 A

CB Legend (blank = circuit breaker):
G = GFCI S = Shunt Trip D = Switching Duty A = AFCI H = HID Rated C = HACR Rated † = Existing Circuit ‡ = Revised Circuit

Notes:

Stantec

Name: **APLEBC SEC 3** | Volts: 208Y/120V | Mains Type: MCB | Type: NQ Distribution Panelboard
Location: OPEN OFFICE C1024 | Phases: 3 | Mains Rating: 150 A | AIC Rating: 10kA
Supply From: | Wires: 4 | Mounting: Flush
Serves: | Lugs: | Enclosure: Indoor

Notes:

CKT	Circuit Description	Trip	Poles	CB	A		B		C		CB	Poles	Trip	Circuit Description	CKT
1	RECEPTACLE EQUIPMENT C1001A	20 A	1		180	500						1	20 A	POWER SUPPORT C1001U	2
3	POWER EQUIPMENT C1001A	20 A	1				1000	1500				1	20 A	POWER EQUIPMENT C1001A	4
5	POWER EQUIPMENT C1001A	20 A	1						1000	1500		1	20 A	POWER EQUIPMENT C1001A	6
7	RECEPTACLE EQUIPMENT C1001A	20 A	1		500	1500						1	20 A	POWER EQUIPMENT C1001A	8
9	RECEPTACLE EQUIPMENT C1001A	20 A	1				500	1000				1	20 A	RECEPTACLE EQUIPMENT C1001A	10
11	RECEPTACLE EQUIPMENT C1001A	20 A	1						500	1000		1	20 A	RECEPTACLE SUPPORT C1001U	12
13	RECEPTACLE EQUIPMENT C1001A	20 A	1		500	1000						1	20 A	RECEPTACLE EQUIPMENT C1001A	14
15	RECEPTACLE EQUIPMENT C1001A	20 A	1				1000	1000				1	20 A	POWER OPEN LAB C1001	16
17	RECEPTACLE EQUIPMENT C1001A	20 A	1						1000	1000		1	20 A	POWER OPEN LAB C1001	18
19	POWER SUPPORT C1001U	20 A	1		1000	1000						1	20 A	POWER EQUIPMENT C1001A	20
21	POWER EQUIPMENT C1001A	20 A	1				1500	0			--	1	20 A	SPARE	22
23	POWER EQUIPMENT C1001A	20 A	1						1500	0	--	1	20 A	SPARE	24
25	POWER EQUIPMENT C1001A	20 A	1		1500	0					--	1	20 A	SPARE	26
27	SPARE	20 A	1	--			0	0			--	1	20 A	SPARE	28
29	SPARE	20 A	1	--					0	0	--	1	20 A	SPARE	30
31	SPARE	20 A	1	--	0	0					--	1	20 A	SPARE	32
33	SPARE	20 A	1	--			0	0			--	1	20 A	SPARE	34
35	SPARE	20 A	1	--					0	0	--	1	20 A	SPARE	36
37	SPARE	20 A	1	--	0	0					--	1	20 A	SPARE	38
39	SPARE	20 A	1	--			0	0			--	1	20 A	SPARE	40
41	SPARE	20 A	1	--					0	0	--	1	20 A	SPARE	42
			Total Load:		**7.68 kVA**		**7.50 kVA**		**7.50 kVA**						
			Total Amps:		**64 A**		**63 A**		**63 A**						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	22680 VA	72.05%	16340 VA	
				Total Conn. Load: 22680 VA
				Total Est. Demand: 16340 VA
				Total Conn.: 63 A
				Total Est. Demand: 45 A

CB Legend (blank = circuit breaker):
G = GFCI S = Shunt Trip D = Switching Duty A = AFCI H = HID Rated C = HACR Rated † = Existing Circuit ‡ = Revised Circuit

Notes:

<Pick location in Project Information>
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ORIGINAL SHEET - ARCH E1

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Permit/Seal

STATE OF NEW YORK
WILLIAM T. NEWMAN
No. 070170
LICENSED PROFESSIONAL ENGINEER
07/02/2026

Key Plan:

Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

ELECTRICAL SCHEDULES

Scale:
Revision: **A**
Drawing No. **E600**

POWER OUTLET SCHEDULE - W-KVA/VOLTS/PH

SERVICE	UNIT TAG	LOCATION/DESCRIPTION	LOAD	FEED	VOLTS/PHASE	CKT BKR/FUSE	CONDUIT & WIRE	CONTROLLER TYPE	CONTROLLER STARTER SIZE	CONTROLLER ACCESSORIES	DISCONNECT	REMARKS
FLUSH VALVE POWER SUPPLY	FPS-1	C100TA WOMENS	0.6 kVA	AP-LBF SEC 1	120 V/1PH	20A	2#12 CU & 1#12G IN 3/4" EMT	N/A	N/A	N/A	HARD WIRED	PROVIDE POWER CONNECTION TO UNIT
FLUSH VALVE POWER SUPPLY	FPS-2	C100TB MENS	0.6 kVA	AP-LBF SEC 1	120 V/1PH	20A	2#12 CU & 1#12G IN 3/4" EMT	N/A	N/A	N/A	HARD WIRED	PROVIDE POWER CONNECTION TO UNIT
VACCUUM PUMP	VP-2	C1000N STORAGE	0.6 kVA	AP-LBF SEC 2	120 V/1PH	20A	2#12 CU & 1#12G IN 3/4" EMT	N/A	N/A	N/A	MMS	PROVIDE POWER CONNECTION TO UNIT
FAN COIL UNIT	FCU-C1001A	C1001A EQUIPMENT	0.35 kVA	AP-LBF SEC 1	120 V/1PH	20A	2#12 CU & 1#12G IN 3/4" EMT	N/A	N/A	N/A	MMS	PROVIDE POWER CONNECTION TO UNIT
VACCUUM PUMP	VP-1	C1001F STORAGE	0.6 kVA	AP-LBF SEC 2	120 V/1PH	20A	2#12 CU & 1#12G IN 3/4" EMT	N/A	N/A	N/A	MMS	PROVIDE POWER CONNECTION TO UNIT
FAN COIL UNIT	FCU-C1001R	C1001R EQUIPMENT	0.35 kVA	AP-LBF SEC 2	120 V/1PH	20A	2#12 CU & 1#12G IN 3/4" EMT	N/A	N/A	N/A	MMS	PROVIDE POWER CONNECTION TO UNIT
FAN COIL UNIT	FCU-C1001V	C1001V EQUIPMENT	0.35 kVA	AP-LBF SEC 2	120 V/1PH	20A	2#12 CU & 1#12G IN 3/4" EMT	N/A	N/A	N/A	MMS	PROVIDE POWER CONNECTION TO UNIT
COLD ROOM CONDENSER	CRC-1	C1010 COLD ROOM	1.2 kVA	APLEBC SEC 2	208 V/3PH	20A	3#12 CU & 1#12G IN 3/4" EMT	N/A	N/A	N/A	30A NEMA 1 FUS/DISC	PROVIDE POWER CONNECTION TO UNIT
FAN COIL UNIT	FCU-C1022	C1022 BREAK/COLLAB	0.7 kVA	AP-LBF SEC 2	120 V/1PH	20A	2#12 CU & 1#12G IN 3/4" EMT	N/A	N/A	N/A	MMS	PROVIDE POWER CONNECTION TO UNIT
FAN COIL UNIT	FCU-C1024	C1024 OPEN OFFICE	1 kVA	AP-LBF SEC 2	120 V/1PH	20A	2#12 CU & 1#12G IN 3/4" EMT	N/A	N/A	N/A	MMS	PROVIDE POWER CONNECTION TO UNIT
FAN COIL UNIT	FCU-C1034	C1034 OPEN OFFICE	1 kVA	AP-LBF SEC 2	120 V/1PH	20A	2#12 CU & 1#12G IN 3/4" EMT	N/A	N/A	N/A	MMS	PROVIDE POWER CONNECTION TO UNIT
FAN COIL UNIT	FCU-C1035	C1035 OPEN OFFICE	0.7 kVA	AP-LBF SEC 2	120 V/1PH	20A	2#12 CU & 1#12G IN 3/4" EMT	N/A	N/A	N/A	MMS	PROVIDE POWER CONNECTION TO UNIT

CONTROLLER TYPES:	FVNRCSD - FULL VOLTAGE NON-REVERSING COMBINATION STARTER/DISCONNECT
	FVNR - FULL VOLTAGE NON-REVERSING STARTER
	MMS - MANUAL MOTOR STARTER
	PR - POWER RELAY
	VFD - VARIABLE FREQUENCY DRIVE
ACCESSORIES:	A - 480-24VAC CONTROL XFMR, 24VAC COIL
	B - RED-RUNNING PILOT LIGHT, GREEN -OFF PILOT LIGHT
	C - HAND-OFF-AUTO SELECTOR SWITCH
	D - 480-120VAC CONTROL XFMR
	E - INTERLOCK CONTACT TO SHUT-DOWN CONTROL CIRCUIT WHEN DISCONNECT SWITCH IS OPEN
	F - RS-485 COMMUNICATION MODULE
	G - 24VAC CONTROL COIL
DISCONNECT:	DISC - DISCONNECT SWITCH SIZE AS INDICATED
	FUS/DISC - FUSIBLE DISCONNECT SWITCH SIZE AS INDICATED
	MMS - MANUAL MOTOR STARTER
	INT/DISC - FUSED DISCONNECT SWITCH INTEGRAL WITH CONTROLLER

NOTES:

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMP	LUMEN OUTPUT	MOUNTING	MANUFACTURER	MODEL	COMMENTS
L-1	2'X2' VOLUMETRIC GRID TROFFER	LED	4308 lm	RECESSED	METALUX	22ARS-L3C3-UNV-G-4000K-HIGH	
L-1-EM	2'X2' VOLUMETRIC GRID TROFFER	LED	4308 lm	RECESSED	METALUX	22ARS-L3C3-UNV-G-4000K-HIGH	PROVIDE EMRG FIXTURES WITH INTEGRATED BATTERY BACKUP
L-3	10" WIDE WRAP FIXTURE	LED	5378 lm	SUSPENSION	METALUX	4AWWS-L3C3-UNV-4000K-MED	
L-4	2'X2' FLAT PANEL	LED	3349 lm	SUSPENSION	METALUX	22FPSL2SCT3-4000K-HIGH	
L-5	2'X4' FLAT PANEL RECESSED	LED	8243 lm	RECESSED	METALUX	24CGTX-80HE-L840	
L-6	6"X4' STRIP LIGHT	LED	4398 lm	SUSPENSION	METALUX	4SNX-SL3-LN-UNV-CC83-CD-4000K-MED	
L-6-EM	6"X4' STRIP LIGHT	LED	4398 lm	SUSPENSION	METALUX	4SNX-SL3-LN-UNV-CC83-CD-4000K-MED	PROVIDE EMRG FIXTURES WITH INTEGRATED BATTERY BACKUP
L-7	2'X4' FLAT PANEL	LED	6441 lm	SUSPENSION	METALUX	24FPSL2SCT3-4000K-HIGH	
L-8	8' SELECTABLE STRIP LIGHT	LED	8608 lm	SUSPENSION	METALUX	8SNX-SL3-LN-UNV-CC83-CD-MED	
L-8-EM	8' SELECTABLE STRIP LIGHT	LED	8608 lm	SUSPENSION	METALUX	8SNX-SL3-LN-UNV-CC83-CD-MED	PROVIDE EMRG FIXTURES WITH INTEGRATED BATTERY BACKUP

Stantec

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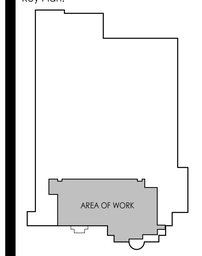
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Permit/Seal



07/02/2026

Key Plan:



Cornell University

Renovate Veterinary Medical Center Level 1 for Surge Space for Veterinary Research Tower

SUCF#: 191030

Project No.:225306010

ELECTRICAL SCHEDULES

Scale: 12" = 1'-0"

Revision: **A**

Drawing No. **E601**

•PCs location in Project Information
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ORIGINAL SHEET - ARCH E1

TELECOMMUNICATIONS ABBREVIATIONS

-#-	
3/C	THREE-CONDUCTOR
-A-	
AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
ADDL	ADDITIONAL
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AH	AMPERE HOUR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
ALM	ALARM
ANN	ANNUNCIATOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPD	APPROVED
APPX	APPENDIX
ARCH	ARCHITECT
ATCH	ATTACHMENT
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIO VISUAL
AVG	AVERAGE
AWG	AMERICAN WIRE GAUGE
-B-	
BAS	BUILDING AUTOMATION SYSTEM
BAT	BATTERY
BFF	BELOW FINISH FLOOR
BKGD	BACKGROUND
BLDG	BUILDING
BLW	BELOW
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BSMT	BASEMENT
BSTR	BOOSTER
BTWN	BETWEEN
-C-	
C	CONDUIT
CAB	CABINET
CAP	CAPACITOR
CAT	CATEGORY
CATV	COMMUNITY ANTENNA TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CD	CONSTRUCTION DOCUMENTS
CERT	CERTIFIY
CH	CHILLER
CHK	CHECK
CHWP	CHILLED WATER PUMP
CKT	CIRCUIT
CL	CENTER LINE, CLOSE, CLOSET
CLG	CEILING
CO	CONDUIT ONLY
COMM	COMMUNICATION
CONC	CONCRETE
CONN	CONNECT
COOR	COORDINATE
CORR	CORRIDOR
CP	CONTROL PANEL
CPT	CONTROL POWER TANSFORMER
CSI	CONSTRUCTION SPECIFICATION INSTITUTE
CT	CURRENT TRANSFORMER
CTRL	CONTROL
CTV	CABLE TELEVISION
CTV	CABLE TELEVISION
CU	COPPER
-D-	
(D)	EXISTING TO BE DEMOLISHED
DB	DECIBEL
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DEF	DEFINITION
DEG	DEGREE
DEMO	DEMOLITION
DESCR	DESCRIPTION
DET	DETAIL
DGTL	DIGITAL
DIAG	DIAGRAM
DIM	DIMENSION
DIR	DIRECTION
DIV	DIVISION
DN	DOWN
DPST	DOUBLE POLE, SINGLE THROW
DWG	DRAWING
-E-	
(E)	EXISTING
(ER)	EXSTING TO BE RELOCATED
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	ENTRANCE FACILITY
EIDF	EQUIPMENT INTERMEDIATE DISTRIBUTION FRAME
ELEC	ELECTRIC, ELECTRICAL
EMER	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
ENGR	ENGINEER
EPO	EMERGENCY POWER OFF SWITCH
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EX	EXISTING TO REMAIN, EXAMPLE
EXCL	EXCLUDE
EXIST, E	EXISTING TO REMAIN
-F-	
F	FAHRENHEIT
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FAS	FIRE ALARM SYSTEM
FBO	FURNISHED BY OTHERS
FC	FOOTCANDLE
FL	FLOOR
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FR	FIRE RATING
FREQ	FREQUENCY
FT	FOOT / FEET
FUT	FUTURE
-G-	
G	GROUND
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFR	GROUND FAULT RELAY
-H-	
HC	HUNG OR SUSPENDED CEILING
HCC	HORIZONTAL CONNECTION CABINET
HCP	HORIZONTAL CONNECTION PANEL
HP	HORSEPOWER
HZ	HERTZ
-I-	
ITSD	INFORMATION TECHNOLOGY SERVICES DIVISION
JB	JUNCTION BOX
-L-	
LA	LIGHTNING ARRESTER
LBS	POUND(S)
LED	LIGHT EMITTING DIODE
LRA	LOCKED ROTOR AMPS
LT	LIGHT
LV	LOW VOLTAGE
-M-	
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MIN	MINIMUM
MOP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MV	MEDIUM VOLTAGE
-N-	
N	NEW
NC	NORMALLY CLOSED
NER	NEW LOCATION OF EXIST RELOCATED
NEUT, N	NEUTRAL
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
-O-	
OCP	OVERCURRENT PROTECTION
-P-	
P	POLE
PB	PULL BOX
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PWR	POWER
-R-	
(R)	REMOVE
R	REMOVE
RE	REMOVE EXIST
REC	RECESSED
RECPT	RECEPTACLE
REF	REFRIGERATOR
REQD	REQUIRED
RGS	RIGID GALVANIZED STEEL
RL	RELOCATE EXIST
RM	ROOM
-S-	
SCHED	SCHEDULE
SD	SMOKE DETECTOR
SECT	SECTION
SM	SINGLE-MODE FIBER
SPDT	SINGLE POLE, DOUBLE THROW
SPEC	SPECIFICATION
SPKR	SPEAKER
SPST	SINGLE POLE, SINGLE THROW
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYS	SYSTEM
-T-	
TBD	TO BE DETERMINED
TC	TIME CLOCK
TCP	TELEPHONE CONTROL PANEL
TEBC	TELECOM EQUIPMENT BONDING CONDUCTOR
TEL	TELEPHONE
TELCOM, TELECOM	TELECOMMUNICATIONS
TER	TELECOMMUNICATION EQUIPMENT ROOM
TGB	TELECOM GROUNDING BUSBAR
TMGB	TELECOM MAIN GROUNDING BUSBAR
TP	TWISTED PAIR
TPS	TWISTED PAIR SHIELDED
TR	TELECOMMUNICATIONS ROOM
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPRESSOR
TYP	TYPICAL
-U-	
UC	UNDERCOUNTER
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
-V-	
V, VOLT	VOLT, VOLTAGE
VA	VOLT AMPERE
VAR	VOLT AMPERE REACTIVE
VCB	VACUUM CIRCUIT BREAKER
VD	VOLTAGE DROP
VFD	VARIABLE FREQUENCY DRIVE
VR	VOLTAGE REGULATOR
-W-	
W	WATT, WIRE, WALL PHONE
WAP	WIRELESS ACCESS POINT
WHM	WATTHOUR METER
WP	WEATHERPROOF
-X-	
XFER	TRANSFER
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
-Z-	
ZSRG	ZERO SEQUENCE REFERENCE GROUND

TELECOMMUNICATIONS SYMBOL LIST

SYMBOL	DESCRIPTION
▼	WALL MOUNTED OUTLET SHALL CONSIST OF (1) CATEGORY 6A CABLE AND 1" CONDUIT (BY EC) FROM THE OUTLET TO THE NEAREST ACCESSIBLE CEILING. FURNISH AND INSTALL (1) PORT FACE PLATE ONTO A 2-GANG J-BOX WITH 1-GANG REDUCER PLATE AT MOUNTING HEIGHT INDICATED BY ARCHITECT. PROVIDE A MINIMUM OF 6" OF CABLE SLACK WITHIN THE BOX AND 12" OF CABLE SLACK NEATLY COILED ABOVE NEAREST ACCESSIBLE CEILING.
▼	WALL MOUNTED OUTLET SHALL CONSIST OF (2) CATEGORY 6A CABLES AND 1-1/4" CONDUIT (BY EC) FROM THE OUTLET TO THE NEAREST ACCESSIBLE CEILING. FURNISH AND INSTALL (2) PORTS FACE PLATE ONTO A 2-GANG J-BOX WITH 1-GANG REDUCER PLATE AT MOUNTING HEIGHT INDICATED BY ARCHITECT. PROVIDE A MINIMUM OF 6" OF CABLE SLACK WITHIN THE BOX AND 12" OF CABLE SLACK NEATLY COILED ABOVE NEAREST ACCESSIBLE CEILING.
Ⓥ	CEILING SURFACE MOUNTED OUTLET SHALL CONSIST OF (2) CATEGORY 6A CABLES FROM THE OUTLET TO THE NEAREST ACCESSIBLE CEILING. FURNISH AND INSTALL (2) KEYSTONE JACKS CEILING MOUNTED EQUIPMENT PANEL. PROVIDE A MINIMUM OF 6" OF CABLE SLACK AT THE PANEL AND 10' OF CABLE SLACK NEATLY COILED ABOVE NEAREST ACCESSIBLE CEILING. COORDINATE WITH ARCHITECTURAL AND ELECTRICAL CONTRACT DOCUMENTS AS REQUIRED.
# ▼	WALL MOUNTED OUTLET SHALL CONSIST OF (#) WHERE "#" REPRESENTS NUMBER OF CATEGORY 6A CABLES AND 1-1/4" CONDUIT (BY EC) FROM THE OUTLET TO THE NEAREST ACCESSIBLE CEILING. FURNISH AND INSTALL (#) WHERE "#" REPRESENTS NUMBER OF PORTS FACE PLATE ONTO A 2-GANG J-BOX WITH 1-GANG REDUCER PLATE AT MOUNTING HEIGHT INDICATED BY ARCHITECT. PROVIDE A MINIMUM OF 6" OF CABLE SLACK WITHIN THE BOX AND 12" OF CABLE SLACK NEATLY COILED ABOVE NEAREST ACCESSIBLE CEILING.
SEC ▼	WALL MOUNTED SECURITY OUTLET SHALL CONSIST OF (1) CATEGORY 6A CABLE AND 1" CONDUIT (BY EC) FROM THE OUTLET TO THE NEAREST ACCESSIBLE CEILING. FURNISH AND INSTALL (1) PORT FACE PLATE ONTO A 2-GANG J-BOX WITH 1-GANG REDUCER PLATE AT MOUNTING HEIGHT INDICATED BY ARCHITECT. PROVIDE A MINIMUM OF 6" OF CABLE SLACK WITHIN THE BOX AND 12" OF CABLE SLACK NEATLY COILED ABOVE NEAREST ACCESSIBLE CEILING. (CONTRACTOR SHALL REFER TO SECURITY DRAWINGS OR VERIFIED WITH THE SECURITY CONTRACTOR OR INTEGRATOR FOR THE EXACT LOCATION OF THE OUTLET ASSEMBLY.)
F ▼	FURNITURE MOUNTED OUTLET SHALL CONSIST OF (1) CATEGORY 6A CABLE IN FURNITURE RACEWAY WITH FURNITURE MOUNTED TRIM PLATE FROM THE OUTLET WITHIN FURNITURE RACEWAYS TO THE NEAREST ACCESSIBLE CEILING VIA CABLE LOOM AND CONDUIT PATHWAYS. FURNISH AND INSTALL FURNITURE PLATE ONTO A FURNITURE OPENING AS INDICATED BY ARCHITECT. PROVIDE A MINIMUM OF 6" OF CABLE SLACK WITHIN THE FURNITURE AND 12" OF CABLE SLACK NEATLY COILED ABOVE NEAREST ACCESSIBLE CEILING.
F ▼	FURNITURE MOUNTED OUTLET SHALL CONSIST OF (2) CATEGORY 6A CABLES IN FURNITURE RACEWAY WITH FURNITURE MOUNTED TRIM PLATE FROM THE OUTLET WITHIN FURNITURE RACEWAYS TO THE NEAREST ACCESSIBLE CEILING VIA CABLE LOOM AND CONDUIT PATHWAYS. FURNISH AND INSTALL FURNITURE PLATE ONTO A FURNITURE OPENING AS INDICATED BY ARCHITECT. PROVIDE A MINIMUM OF 6" OF CABLE SLACK WITHIN THE FURNITURE AND 12" OF CABLE SLACK NEATLY COILED ABOVE NEAREST ACCESSIBLE CEILING.
WAP Ⓥ	CEILING SURFACE MOUNTED WAP OUTLET SHALL CONSIST OF (2) CATEGORY 6A CABLES AND FOR THE OPEN CEILING PROVIDE A 2-GANG J-BOX WITH 1-1/4" CONDUIT (BY EC) FROM THE OUTLET TO THE NEAREST ACCESSIBLE CEILING. FURNISH AND INSTALL (2) PORT PLENUM RATED SURFACE MOUNTED BOX. PROVIDE A MINIMUM OF 6" OF CABLE SLACK WITHIN THE BOX AND 10' OF CABLE SLACK NEATLY COILED ABOVE NEAREST ACCESSIBLE CEILING.

TELECOMMUNICATIONS PATHWAY SYMBOLS

CONDUIT SLEEVE, 4 INCH U.O.N.	CABLE TRAY, TYPE AND SIZE AS INDICATED
CONDUITS/CONDUIT SLEEVES - DOWN	CONDUIT , 4 INCH DIAMETER U.O.N.
CONDUITS/CONDUIT SLEEVES - UP	CONDUIT PULL BOX, SIZED IN ACCORDANCE WITH BICSI TDMM VERSION 15
COLOR DENOTES EQUIPMENT EXISTING TO REMIAN	PB

TELECOM FURNITURE SYSTEM NOTES

1. CONTRACTOR SHALL COORDINATE ALL WORK RELATED TO ELECTRIFIED PARTITION SYSTEM WITH FURNITURE INSTALLER.
2. ALL INFEED LOCATIONS SHALL BE REVIEWED/COORDINATED ON SITE WITH ARCHITECT AND FURNITURE SYSTEM INSTALLER.
3. ALL CABLES OUTSIDE OF TENANT SPACE SHALL BE IN CONDUITS (BY EC)
4. ROUTE CABLES FOR FURNITURE SYSTEM WORKSTATIONS THROUGH THE FURNITURE SYSTEM FROM THE CLOSEST IN-FEED LOCATION.
5. ELECTRICAL CONTRACTOR SHALL F & I SUFFICIENT CONDUIT IN-FEEDS TO SUPPORT THE REQUIRED CABLE QUANTITY TO WORKSTATIONS.
6. COORDINATE THE INSTALLATION OF THE FURNITURE SYSTEM VOICE/DATA OUTLET WITH THE FURNITURE SYSTEM INSTALLATION SCHEDULE.

TELECOM SCOPE FOR WIRELESS SYSTEM

1. INSTALL OWNER SUPPLIED WIRELESS ACCESS POINT (ACTIVE/POWER OVER ETHERNET DEVICE) AT EACH WIRELESS OUTLET LOCATION. CIT TO PROVIDE, INSTALL, LABEL, AND PATCH ALL WAPs.
2. PROVIDE WIRELESS ACCESS POINT AT LOCATIONS WHERE WIRELESS ACCESS POINT OUTLET IS SHOWN ON THE TELECOMMUNICATION DRAWINGS. IN NON ACCESSIBLE CEILINGS, INSTALL ACCESS POINT INSIDE ENCLOSURE WITH CONDUIT TO CLOSEST ACCESSIBLE CEILING OR CIT ROOM. FOR ACCESSING CEILING INSTALL ACCESS POINT USING BRACKET ATTACHED TO UNDERSIDE OF CEILING GRID.
3. PATCH OWNER PROVIDED ACCESS POINT TO WIRELESS OUTLET. INSTALLED WIRELESS ENCLOSURE AT NON ACCESSIBLE CEILING.
4. LABEL EACH ACCESS POINT AND ASSOCIATED CABLING WITH WAP LABEL/OUTLET NUMBER.
5. WHERE CONDUIT INSTALLED, PROVIDE AND LEAVE IN PLACE A PULL STRING IN EACH CONDUIT. (BY EC)
6. TELECOM CONTRACTOR SHALL PULL, TERMINATE, TEST, AND PROVIDE TEST RECORDS FOR ALL CABLING ASSOCIATED WITH ACCESS POINT INSTALLATION.
7. TELECOM CONTRACTOR IS NOT REQUIRED TO PROVIDE ACCESS POINTS. OWNER SHALL ORDER ACCESS POINTS TO ENSURE CORRECT MODELS ARE SPECIFIED AND CHARGED TO THE PROJECT.
8. OWNER SHALL PROVIDE PATCH CABLES FOR ACCESS POINT INSTALLATION.

TELECOM SCOPE FOR SECURITY SYSTEM

1. CONTRACTOR SHALL PROVIDE TWISTED PAIR CABLING AS NOTED ON THE SECURITY CONTRACT DOCUMENTS.
2. ALL TWISTED PAIR CABLE HOMERUNS FOR SECURITY CAMERAS SHALL BE PATCHED INTO SECURITY PATCH PANELS AS INDICATED ON THE RACK ELEVATIONS, OR INTO THE NEXT AVAILABLE PORT UNLESS OTHERWISE NOTED THAT A DEDICATED PATCH PANEL IS REQUIRED.
3. CONTRACTOR SHALL OBTAIN ARCHITECTURAL AND SECURITY CONTRACT DOCUMENTS TO COORDINATE LOCATIONS FOR ALL SECURITY CAMERA AND ADDITIONAL NETWORK DEVICE LOCATIONS.

TELECOMMUNICATIONS GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, NFPA, UL, ADA, BUILDING CODES, LOCAL LAWS, ORDINANCES, REGULATIONS, AND ALL OTHER GOVERNING AGENCIES HAVING JURISDICTION.
2. "CONTRACTOR" SHALL REFER TO TELECOMMUNICATIONS CONTRACTOR, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL KEEP TELECOMMUNICATIONS SPACES DUST FREE DURING CONSTRUCTION. CONTRACTOR SHALL INSTALL DOOR SWEEPS AT THE BOTTOM OF DOORS AND PROVIDE STICK MATS INSIDE AND OUTSIDE OF THE TELECOMMUNICATIONS SPACE ENTRANCES.
4. ALL TWISTED PAIR CABLES SHALL BE HOMERUN BACK TO THE TELECOMMUNICATIONS SPACE AS INDICATED ON THE DRAWINGS VIA SPACE ABOVE HUNG CEILING UNLESS OTHERWISE NOTED.
5. CONDUIT SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE ROUTING OF CABLES WITH THE ELECTRICAL, MECHANICAL, AND GENERAL CONTRACTOR PRIOR TO INSTALLATION.
6. CONTRACTOR TO VERIFY CEILING HEIGHTS FOR ALL AREAS PRIOR TO INSTALLING ANY CABLE. CONTRACTOR TO COORDINATE THE INSTALLATION OF ANY COMPONENTS IN THE CEILING WITH ALL OTHER TRADES, EQUIPMENT AND FIELD CONDITIONS
7. PROVIDE FIRE STOPPING AT ALL PENETRATIONS, CONDUIT SLEEVES AND RATED PARTITIONS EVERY TIME A RATED PARTITION IS TRAVERSED. CONTRACTOR TO REVIEW ARCHITECT'S PLANS FOR PARTITION TYPES, SLEEVE QUANTITIES, AND SIZES. CONTRACTOR TO SIZE ALL FIRE RATED SLEEVES TO ACCOMMODATE ALL CABLES PENETRATIONS.
8. PROVIDE FIRE RATED RE-ENTERABLE SLEEVES AT ALL FIRE RATED PARTITIONS (BY CONTRACTOR) AND SLAB PENETRATIONS (BY EC) AS REQUIRED TO MAINTAIN FIRE RATING OF SLAB OR PARTITION.
9. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL PARTITION SCHEDULE AND PROVIDE SMOKE AND OR ACOUSTIC SLEEVE CS-SL AS REQUIRED.
10. CONTRACTOR SHALL REFER TO SPECIFICATION AND/OR COORDINATE WITH OWNER FOR JACK/ICON COLORS. JACK COLOR SHOULD BE WHITE, OR MATCH RECEPTACLE COLOR. ICONS ARE NOT USED.
11. CONTRACTOR SHALL TABULATE QUANTITY BASED UPON COMMUNICATION OUTLET SYMBOLS SHOWN (TYPICAL). CONTRACTOR TO VERIFY IN FIELD AND MAKE ADJUSTMENTS AS REQUIRED.
12. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION AND ALL PART NUMBERS FOR COMPONENTS.
13. WHERE THERE IS A CONFLICT BETWEEN CABLING SPECIFICATIONS AND THE DRAWINGS, OBTAIN CLARIFICATION FROM ENGINEER AND OWNER PRIOR TO BID AND INSTALLATION.
14. LOCATION OF ALL TELECOMMUNICATIONS OUTLETS AND OTHER COMPONENTS ARE APPROXIMATE AND DIAGRAMMATIC FOR GENERAL ARRANGEMENT OF THE STRUCTURED CABLING SYSTEM. COORDINATE AND REFER TO ARCHITECTURAL CONTRACT DOCUMENTS FOR EXACT LOCATION, FINISH, MOUNTING HEIGHT, AND DETAILS. CONTRACTOR TO REFER TO ELECTRICAL, AUDIOVISUAL, SECURITY AND OTHER TRADE CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION.
15. ALL RACKS, PATHWAYS, AND EQUIPMENT SHALL BE BONDED AND GROUNDED TO TELECOM GROUNDING SYSTEM AS PER ANSI/TIA 607.
16. TELECOM SPACES MAY ALSO BE REFERRED TO AS CIT ROOM, IDF, ER, TR, TER, TDR, MDF, MER, MTER, MTDR, TSER, DEMARC, MPOE, OR ENTRANCE FACILITIES.
17. CONTRACTOR TO ALLOCATE ONE NETWORK DROP PER FLOOR FOR DEFERRED BMS PANEL SCOPE, WITH 150' OF CABLE RUN PER FLOOR.
18. CIT TO FURNISH ALL PATCH CORDS AT TIME OF SERVICE ACTIVATION.
19. CONTRACTOR SHALL REFER TO MECHANICAL AND LIGHTING CONTRACT DOCUMENTS FOR ADDITIONAL SCOPE, COORDINATION, AND REQUIREMENTS.

TELECOMMUNICATIONS CABLING NOTES

1. ROUTE ALL TELECOMMUNICATIONS CABLES FROM TELECOMMUNICATIONS OUTLETS TO CIT ROOM AS INDICATED ON THE DRAWINGS. COORDINATE ALL ELECTRICAL POWER, CONDUIT, JUNCTION BOX REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
2. PROVIDE IDENTIFICATION LABELS FOR ALL TWISTED PAIR CABLES AT BOTH ENDS.
3. PROVIDE DESIGNATION LABELS FOR ALL TERMINATION BLOCKS, PATCH PANELS, AND WORKSTATION OUTLET FACEPLATES.
4. COORDINATE WALL BOX LOCATIONS AND DIMENSIONS WITH ARCHITECTURAL AND ELECTRICAL PLANS.
5. COORDINATE WITH ELECTRICAL DRAWINGS FOR LOCATION OF ALL TELECOMMUNICATIONS OUTLETS.
6. INSTALL CONDUIT AND LADDER RACK FOR TELECOMMUNICATIONS WIRING TO MAINTAIN A MINIMUM OF 5" SEPARATION/ CLEARANCE FROM FLUORESCENT LIGHTING.
7. ALL TELECOMMUNICATIONS CABLES SUPPORTED BY J-HOOKS SHALL BE ROUTED A MINIMUM OF 12 INCHES FROM LIGHT FIXTURES AND A MINIMUM OF 24 INCHES FROM TRANSFORMER OR MOTORS. TELECOMMUNICATIONS CABLES SHALL CROSS OTHER TRADES IN 90 DEGREES WITH PROPER CLEARANCE FROM ALL ELECTRICAL MAGNETIC SOURCE PER EIA / TIA STANDARDS.
8. PROVIDE COMMUNICATIONS RATED J-HOOKS AND CABLE STRAPS NO GREATER THAN 5' APART TO SUPPORT CABLES WHERE NO CABLE TRAYS OR CONDUITS ARE PROVIDED.
9. INSTALL EACH CABLE SET INDICATED BY THE SYMBOLS LIST FROM THE OUTLET LOCATION BACK TO THE RESPECTIVE SERVING CIT ROOM.
10. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DEVICE AND BOX LOCATIONS.
11. IF CONFLICTS ARE FOUND BETWEEN THE TELECOMMUNICATIONS DRAWINGS AND ANY OTHER DRAWINGS ASSOCIATED WITH THE PROJECT, NOTIFY THE ARCHITECT AT ONCE AND HAVE LOCATION VERIFIED BEFORE OUTLETS ARE INSTALLED. ANY REASONABLE CHANGE IN LOCATION OF OUTLETS PRIOR TO ROUGH-IN SHALL NOT INVOLVE ADDITIONAL EXPENSE TO THE OWNER. THE TERM "REASONABLE" SHALL BE INTERPRETED AS MOVING OUTLET LOCATIONS A MAXIMUM OF 10' IN ANY DIRECTION FROM THE LOCATION INDICATED ON THE DRAWINGS.
12. ALL TELECOMMUNICATIONS CABLES SHALL BE PROPERLY SUPPORTED WITH APPROVED PATHWAY SYSTEM (J-HOOKS, CONDUITS, CABLE TRAYS) PER MANUFACTURER RECOMMENDATION OR EIA / TIA STANDARDS.

TELECOM DRAWING DEMOLITION NOTES

1. COMMUNICATIONS CONTRACTOR AND ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO SURVEY EXISTING CONDITIONS OF BUILDING AND REVIEW ARCHITECTURAL DRAWINGS FOR EXTENT OF DEMOLITION PRIOR TO START OF DEMOLITION WORK AND SEND RFIS IF REQUIRED FOR CLARIFICATION OF SCOPE.
2. CONTRACTOR TO COORDINATE WITH THE OWNER PRIOR TO ANY REMOVAL OF EXISTING ACTIVE AND OR PASSIVE SYSTEMS..
3. PRIOR TO DEMOLITION OF ANY EXISTING CABLES, CONTRACTOR SHALL VERIFY CABLE LABELS MATCH AT EACH END. IF LABEL IS NOT INSTALLED, OR LEGIBLE, BRING IT TO GC/CM ATTENTION.
4. CONTRACTOR SHALL START DEMOLITION OF CABLES ON THE FACEPLATE/JACK SIDE AND WORK HIS WAY TO THE TELECOMMUNICATIONS SPACE SIDE. ALL PRECAUTION SHALL BE TAKEN NOT TO DAMAGE ANY OTHER SERVICE CABLES IN THE PROCESS.
5. INFORMATION SHOWN ON THE FLOOR PLANS ARE FOR CONTRACTOR'S REFERENCE ONLY AND MAY NOT REFLECT EXACT FIELD CONDITIONS AND ALL COMMUNICATIONS EQUIPMENT TO BE DEMOLISHED. ALL FINISHES REMOVED FOR INSTALLATION OF COMMUNICATIONS WORK SHALL BE REPLACED TO MATCH EXISTING.
6. DISCONNECT, REMOVE, OR RELOCATE ANY EXISTING COMMUNICATIONS MATERIALS, EQUIPMENT, AND OTHER RELATED WORK AS NEEDED TO ACCOMMODATE THE ALTERATIONS OR CHANGES TO THE EXISTING CONSTRUCTION, FOLLOWING THE REQUIREMENTS INDICATED ON THE CONTRACT DOCUMENTS.
7. MAINTAIN CONTINUITY AND FUNCTIONALITY OF ALL EXISTING VOICE, DATA, AND OTHER COMMUNICATIONS CABLING, OUTLETS, DEVICES, AND EQUIPMENT IN EXISTING AREAS TO REMAIN DURING THE PROJECT. THE CONTRACTOR SHALL INSTALL ANY NECESSARY NEW WIRING AND CONDUIT PATHWAYS REQUIRED TO ENSURE UNINTERRUPTED SERVICE CONTINUITY FOR THESE EXISTING COMMUNICATIONS SYSTEMS IN THE AREAS TO REMAIN.
8. EXISTING COMMUNICATIONS CIRCUITS PASSING THROUGH THE DEMOLITION AREA AND SERVING EQUIPMENT IN SPACES TO REMAIN (WHETHER INDICATED ON THESE DRAWINGS OR NOT) SHALL NOT BE REMOVED. CONTRACTOR SHALL CLEARLY MARK AND IDENTIFY CIRCUITS WITH TAGS, OR OTHER MEANS OF IDENTIFICATION TO PROTECT CIRCUITS FROM POSSIBLE DAMAGE BY OTHER TRADES.
9. PROVIDE TEMPORARY SHUTDOWN OF EXISTING SERVICES ONLY WITH WRITTEN CONSENT OF THE OWNER.

CABLING PLAN & LABELING REQUIREMENTS

1. RISER CABLING: CONTRACTOR SHALL SUBMIT COMPLETE RISER DIAGRAM SHOWING QUANTITY OF RISER CABLE IN EACH RISER CONDUIT FROM THE POE TO THE MDF, AND FROM THE MDF TO THE IDFS, FOR REVIEW AND APPROVAL BY ENGINEER, ARCHITECT AND OWNER ITS PRIOR TO INSTALLATION OF ANY RISER CABLING.
2. STATION CABLING: CONTRACTOR SHALL SUBMIT COMPLETE LABELING FLOOR PLAN FOR REVIEW AND APPROVAL BY ENGINEER, ARCHITECT AND OWNER ITS PRIOR TO INSTALLATION OF ANY STATION CABLING.
3. CABLING SCHEDULE: CONTRACTOR SHALL SUBMIT FULL CABLING SCHEDULE FOR REVIEW AND APPROVAL BY ENGINEER, ARCHITECT AND OWNER ITS PRIOR TO PATCHING FROM PATCH PANELS TO OWNER-FURNISHED SWITCHES. A CABLE SCHEDULE MUST BE PROVIDED TO THE OWNER AT LEAST TWO WEEKS PRIOR TO ANY SERVICE ACTIVATION REQUESTS.
4. COMPLETION DOCUMENTS: CONTRACTOR SHALL PROVIDE ELECTRONIC (PDF) COPIES OF AS-BUILT FLOOR PLANS AND AN EXCEL DOCUMENT INDICATING EVERY STATION CABLE TERMINATION POINT ON THE FLOOR. SUBMIT EACH FLOOR AS SEPARATE PACKAGE. COMPLETION DOCUMENTS MUST BE SUBMITTED TO THE OWNER AT LEAST TWO WEEKS PRIOR TO SERVICE ACTIVATION.
5. INTEGRATOR SHALL LABEL ALL CLOSETS, RACKS, CABINETS, CABLES, CABLE SUPPORTS, ETC. IN ACCORDANCE WITH ANSI/TIA/EIA-606-D. LABELING SHALL BE MACHINE LETTERED, PERMANENT CABLE TAGS AT BOTH ENDS SHOWING THE FLOOR NUMBER, DEVICE TYPE, AND A UNIQUE ID NUMBER FOR EACH CABLE. THESE ID NUMBERS MUST ALSO BE SHOWN ON ALL FLOOR PLANS AND EQUIPMENT CONNECTIVITY DIAGRAMS PROVIDED AS PART OF THE SHOP DRAWINGS AND AS-BUILT DRAWINGS.
6. LABEL REQUIREMENTS:
   A. PROVIDE WHITE LABEL WITH TYPEWRITTEN LEGIBLE CHARACTERS. PRINTED WITH NON-SMEAR TYPE INK. HANDWRITTEN LABELS ARE NOT PERMITTED.
   B. PROVIDE LABELS WITH A SELF ADHESIVE BACKING.
   C. PROVIDE LABELS FOR CABLES WITH PROTECTIVE WRAP-AROUND PLASTIC TRANSPARENT COVER WHICH WILL SERVE TO PROTECT THE INK FROM SMEARING AND SECURE THE LABEL TO THE CABLE.
   D. PROVIDE LABELS FOR CABLES WIDE ENOUGH FOR 23 CHARACTERS IN A SINGLE ROW.
7. RISER TIE CABLES AND CONDUITS SHALL BE LABELED AS PER OWNER STANDARDS EVERY 5' ALONG CABLE/CONDUIT RUN.

TYPICAL PULL BOX AND CONDUIT SIZES

PULL BOX SIZING REQUIREMENT

MAXIMUM CONDUIT SIZE	BOX SIZE WIDTH	BOX SIZE LENGTH	BOX SIZE DEPTH	ADD TO BOX SIZE FOR EACH ADDITIONAL CONDUIT
1	4"	16"	3"	2"
1-1/2"	8"	27"	4"	4"
2"	8"	36"	4"	5"
3"	12"	48"	5"	6"
4"	15"	60"	8"	8"

CONDUIT REQUIREMENT CABLE FILL FOR CAT 6 CABLE (OD SIZE 0.220) *1

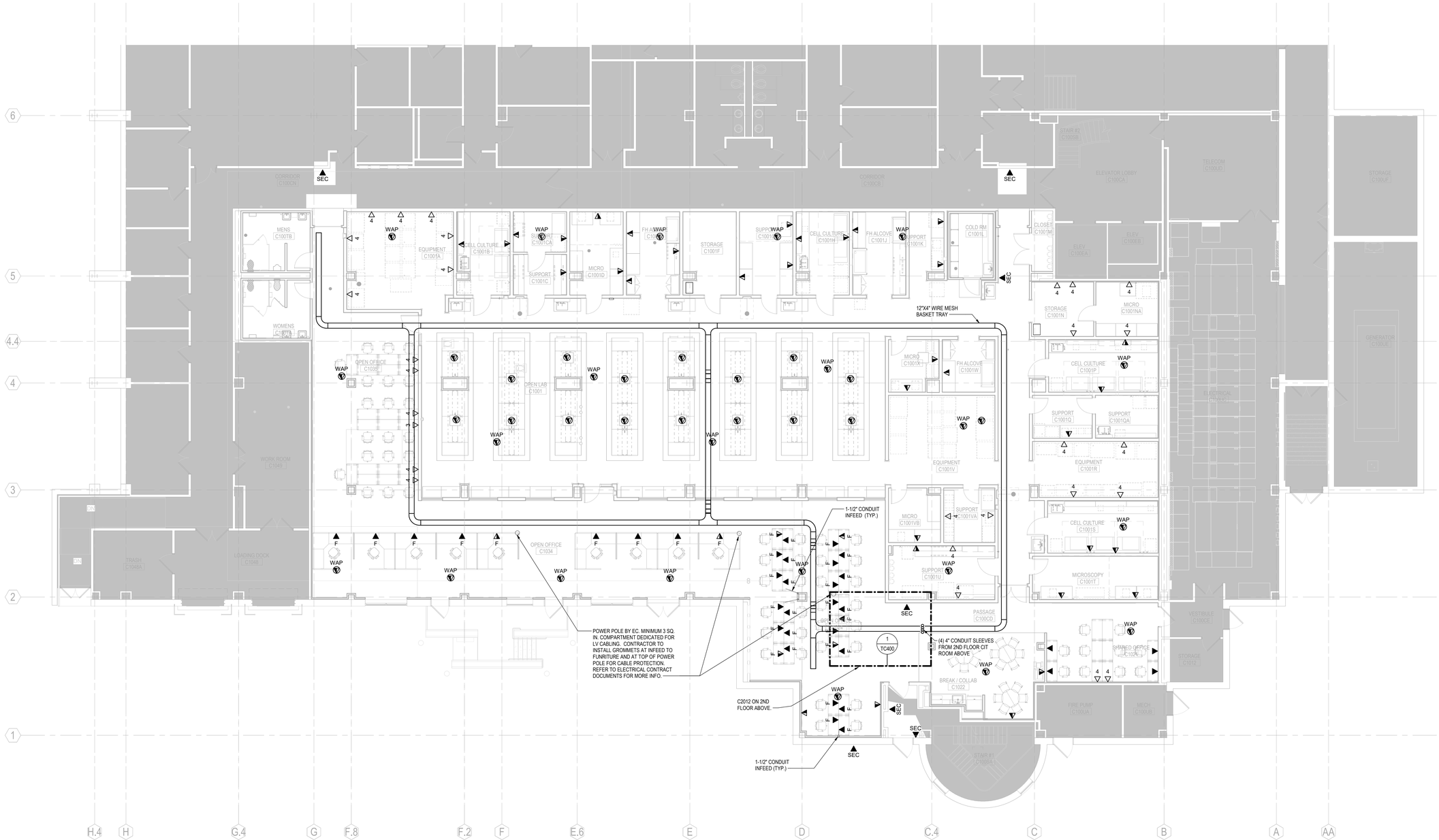
CONDUIT TRADE SIZE	CONDUIT ID (in)	40% FILL # OF CABLES	50% FILL # OF CABLES	60% FILL # OF CABLES
3/4"	0.824	5	7	8
1"	1.02	8	10	12
1-1/4"	1.275	13	16	20
2"	2.04	34	42	51
3"	3	74	92	111
4"	4	132	165	198

CONDUIT REQUIREMENT CABLE FILL FOR CAT 6A CABLE (OD SIZE 0.28) *1

CONDUIT TRADE SIZE	CONDUIT ID (in)	40% FILL # OF CABLES	50% FILL # OF CABLES	60% FILL # OF CABLES
3/4"	0.824	3	4	5
1"	1.02	5	6	7
1-1/4"	1.275	8	10	12
2"	2.04	21	26	31
3"	3	45	57	68
4"	4	81	102	122

1. *1 ASSUMES INDUSTRY STANDARD AND NEC CODE IS TO DESIGN FOR A MAXIMUM OF 40% FILL.
2. PULL BOXS, CONDUITS, AND JUNCTION BOXES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
3. NOTES AND CHARTS ARE FOR REFERENCE ONLY.
4. ALL CABLES THROUGH CONDUITS MUST BE PULLED AT THE SAME TIME TO ACHIEVE THE GREATER FILL LEVELS.
5. CONDUITS SHALL ENTER AND EXIT PULL BOXES IN A CONTINUOUS DIRECTION. PULL BOXES ARE NOT TO BE USED FOR 90 DEGREE BENDS. DO NOT INSTALL PULL BOXES IN LIEU OF A BEND.
6. PULL BOX SHALL BE USED

NOTES:
1. ALL CABLES SHALL BE ROUTED TO CIT ROOM C2012 ON 2ND FLOOR.



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Key Plan:

Cornell University

Veterinary Medical Center VRT Swing Space Renovation

SUCF#: 191030

Project No.:225306010

1ST FLOOR - TELECOMMUNICATIONS CONSTRUCTION PLAN

Scale: 1/8" = 1'-0"

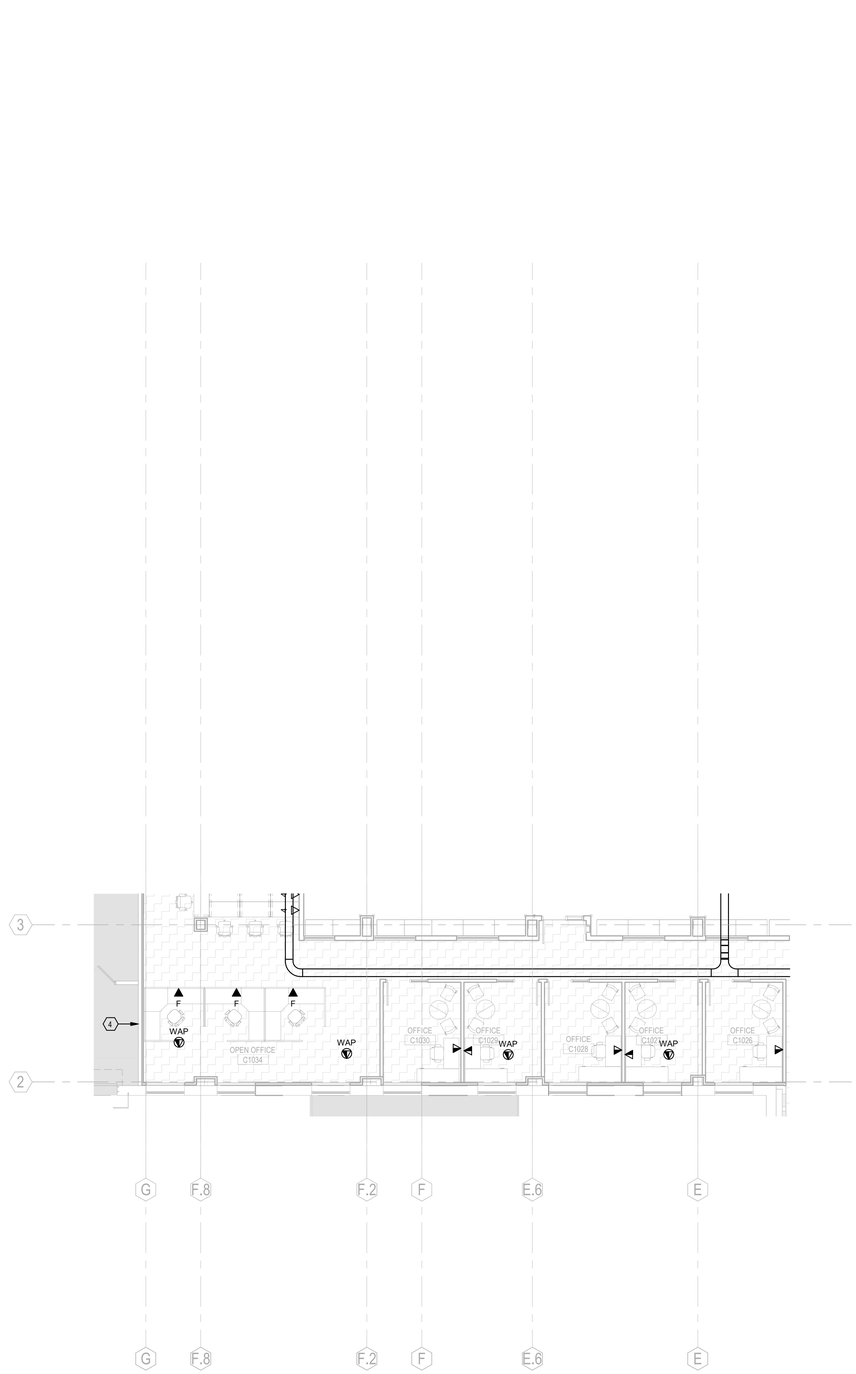
Revision:**0**

Drawing No. **TC101**

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6/8/2026 5:54:04 PM

ORIGINAL SHEET - ARCH E1

NOTES:
1. ALL CABLES SHALL BE ROUTED TO CIT ROOM C2012 ON 2ND FLOOR.
2. FOR OFFICES C1030 TO C1026 CONTRACTOR MUST PROVIDE ADD/ALT PRICING FOR WALL OUTLETS IN PLACE OF FURNITURE MOUNTED RECEPTACLES.



1ST FLOOR - TELECOMMUNICATIONS PLAN ALTERNATE #2

1 / TC102

1/8" = 1'-0"

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Key Plan:

Cornell University.

Veterinary Medical Center VRT Swing Space Renovation

SUCF#: 191030

Project No.:225306010

1ST FLOOR - TELECOMMUNICATIONS CONSTRUCTION PLAN ADD/ALT

Scale: 1/8" = 1'-0"

Revision: **0**

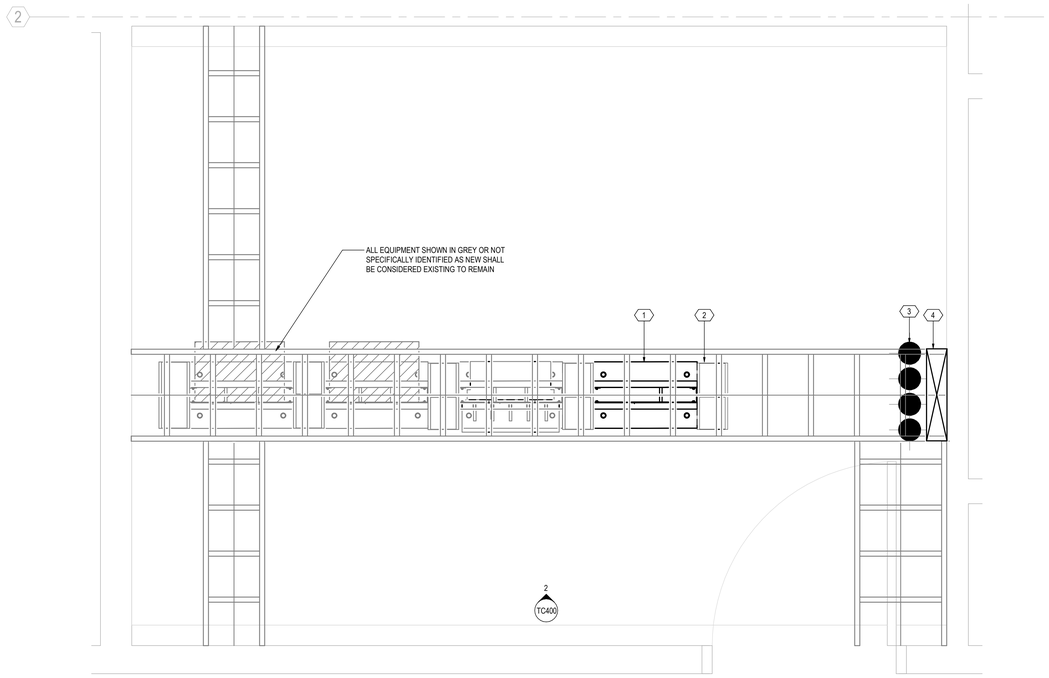
Drawing No. **TC102**

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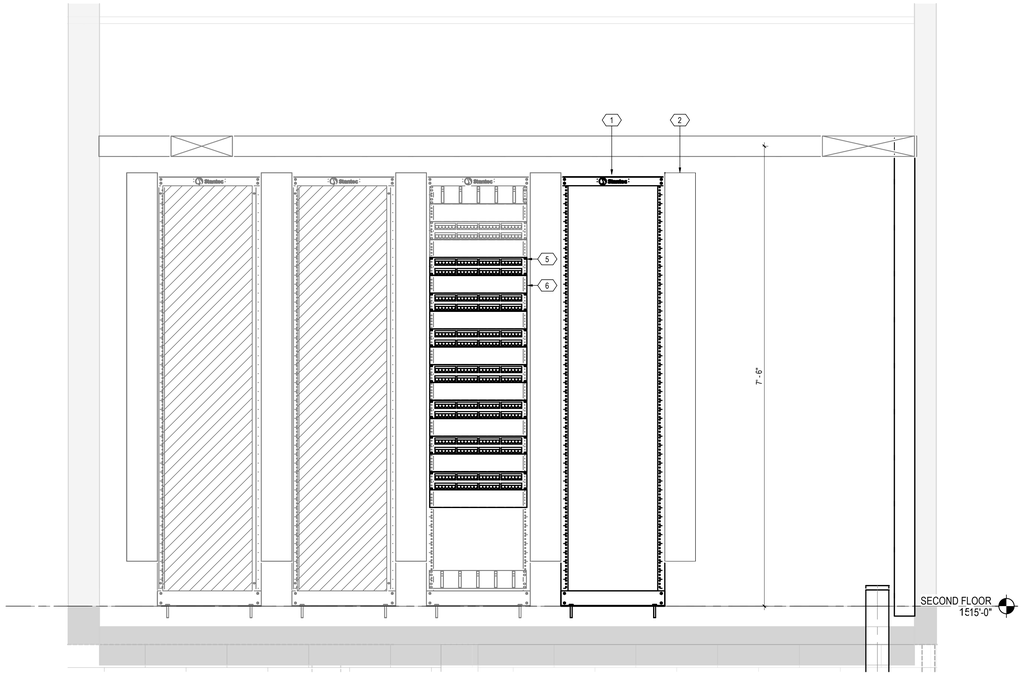
ORIGINAL SHEET - ARCH E1

TELECOMMUNICATION KEYNOTES

#	DESCRIPTION
1	FURNISH AND INSTALL 19'(W) X 7' (H) 2-POST RACK.
2	FURNISH AND INSTALL (2) 6"(W) X 7'(H) VERTICAL CABLE MANAGERS. (TYP.)
3	FURNISH AND INSTALL (4) 4" HILTI SLEEVES DEDICATED FOR HORIZONTAL CABLING SHOWN TO 1ST FLOOR SWING SPACE LAB.
4	18" VERTICAL LADDER RACK CABLE TRAY
5	48-PORT MODULAR FLAT CAT6A PATCH PANEL FOR TERMINATION OF HORIZONTAL CABLING FROM WORKSTATION OUTLETS - QUANTITY AS REQUIRED (TYP.)
6	2U HORIZONTAL WIRE MANAGER (TYP.)



1 TC400 CIT C2012 ROOM - PART PLAN
1" = 1'-0"



2 TC400 CIT C2012 ROOM - ELEVATION
1" = 1'-0"

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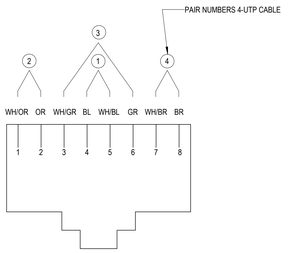
Project No.:225306010

TELECOMMUNICATIONS PART PLANS

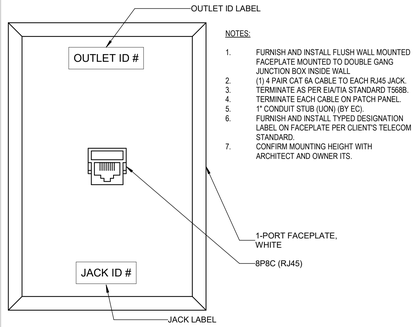
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Revision:**0**
Drawing No. **TC400**

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ORIGINAL SHEET - ARCH E1



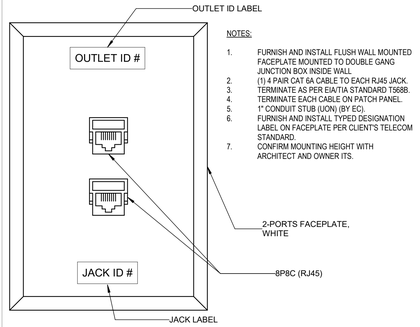
1 UTP CABLE PINOUT T568B WIRING SCHEME
12" = 1'-0"



NOTES:

1. FURNISH AND INSTALL FLUSH WALL MOUNTED FACEPLATE MOUNTED TO DOUBLE GANG JUNCTION BOX INSIDE WALL.
2. (1) 4 PAIR CAT 6A CABLE TO EACH RJ45 JACK.
3. TERMINATE AS PER EIA/TIA STANDARD T568B.
4. TERMINATE EACH CABLE ON PATCH PANEL.
5. 1" CONDUIT STUB (UON) (BY EC).
6. FURNISH AND INSTALL TYPED DESIGNATION LABEL ON FACEPLATE PER CLIENT'S TELECOM STANDARD.
7. CONFIRM MOUNTING HEIGHT WITH ARCHITECT AND OWNER ITS.

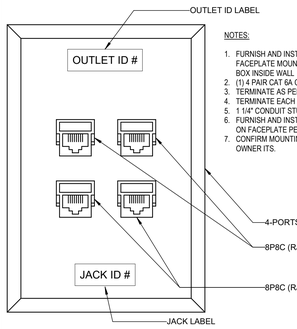
2 STANDARD FLUSH WALL MOUNTED 1-JACK OUTLET2
12" = 1'-0"



NOTES:

1. FURNISH AND INSTALL FLUSH WALL MOUNTED FACEPLATE MOUNTED TO DOUBLE GANG JUNCTION BOX INSIDE WALL.
2. (1) 4 PAIR CAT 6A CABLE TO EACH RJ45 JACK.
3. TERMINATE AS PER EIA/TIA STANDARD T568B.
4. TERMINATE EACH CABLE ON PATCH PANEL.
5. 1" CONDUIT STUB (UON) (BY EC).
6. FURNISH AND INSTALL TYPED DESIGNATION LABEL ON FACEPLATE PER CLIENT'S TELECOM STANDARD.
7. CONFIRM MOUNTING HEIGHT WITH ARCHITECT AND OWNER ITS.

3 STANDARD FLUSH WALL MOUNTED 2-JACKS OUTLET2
12" = 1'-0"



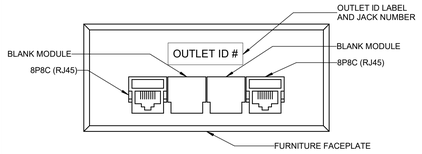
NOTES:

1. FURNISH AND INSTALL FLUSH WALL MOUNTED FACEPLATE MOUNTED TO DOUBLE GANG JUNCTION BOX INSIDE WALL.
2. (1) 4 PAIR CAT 6A CABLE TO EACH RJ45 JACK.
3. TERMINATE AS PER EIA/TIA STANDARD T568B.
4. TERMINATE EACH CABLE ON PATCH PANEL.
5. 1 1/4" CONDUIT STUB (UON) (BY EC).
6. FURNISH AND INSTALL TYPED DESIGNATION LABEL ON FACEPLATE PER CLIENT'S TELECOM STANDARD.
7. CONFIRM MOUNTING HEIGHT WITH ARCHITECT AND OWNER ITS.

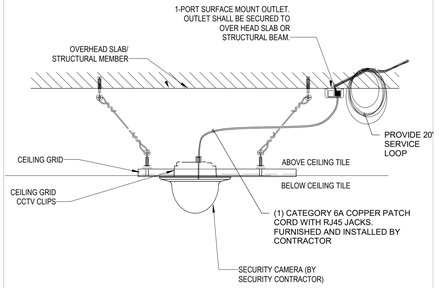
5 STANDARD FLUSH WALL MOUNTED 4-PORTS, 4-JACKS OUTLET
12" = 1'-0"

NOTES:

1. COMMUNICATIONS OUTLET WILL BE MODULAR (CONTRACTOR-SUPPLIED) ADAPTERS THAT SNAP INTO STANDARD KNOCK-OUTS IN THE FURNITURE PANELS ABOVE THE WORK SURFACE.
2. RUN COMMUNICATIONS CABLING FROM WALL- OR FLOOR-MOUNTED IN-FEEDS INTO FURNITURE PANEL BASES, AND THEN DIRECTLY TO THE OUTLETS VIA THE PANELS' INTERNAL RACEWAYS.
3. OUTLET CONFIGURATION VARIES WITH FURNITURE MANUFACTURER. CONFIRM PART NUMBERS WITH PROJECT DOCUMENTS BEFORE INSTALLATION. CONFIRM ADAPTER COLOR WITH ARCHITECT.
4. (1) 4 PAIRCAT 6A CABLE TO EACH RJ45 JACK.
5. TERMINATE AS PER EIA/TIA STANDARD T568B.
6. TERMINATE EACH CABLE ON PATCH PANEL.
7. FURNISH AND INSTALL TYPED DESIGNATION LABEL ON FACEPLATE PER CLIENT'S TELECOM STANDARD.
8. CONFIRM MOUNTING HEIGHT WITH ARCHITECT AND OWNER ITS.



6 STANDARD FURNITURE MOUNTED 2-JACKS OUTLET2
12" = 1'-0"



7 SECURITY CAMERA MOUNTING DETAIL3
12" = 1'-0"

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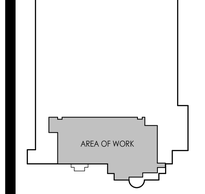
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Key Plan:



Cornell University.

Veterinary Medical Center VRT Swing Space Renovation

SUCF#: 191030

Project No.:225306010

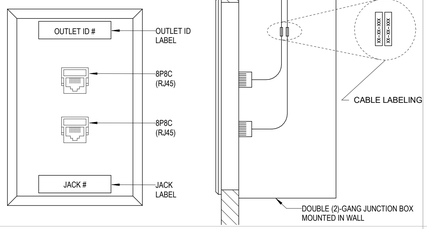
TELECOMMUNICATIONS DETAILS SHEET

Scale: 12" = 1'-0"
Revision:**0**
Drawing No. **TC701**

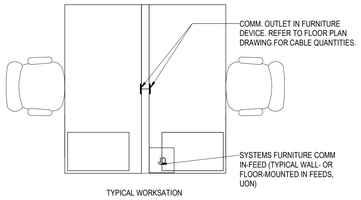
ORIGINAL SHEET - ARCH E1

NOTES:

1. FURNISH AND INSTALL FLUSH WALL MOUNTED FACEPLATE MOUNTED TO DOUBLE GANG JUNCTION BOX INSIDE WALL
2. UTP CABLE TO EACH RJ45 JACK AS REQUIRED.
3. TERMINATE AS PER EIA/TIA STANDARD T568B.
4. TERMINATE EACH CABLE ON PATCH PANEL.
5. 1 1/4" CONDUIT STUB (UON) (BY EC).
6. FURNISH AND INSTALL TYPED DESIGNATION LABEL ON FACEPLATE PER CLIENT'S TELECOM STANDARD.
7. CONFIRM MOUNTING HEIGHT WITH ARCHITECT AND OWNER ITS.



1 TYPICAL FLUSH MOUNTED DETAIL2
1/2" = 1'-0"



TYPICAL WORKSATION

TELECOM NOTES - TYPICAL WORKSTATION

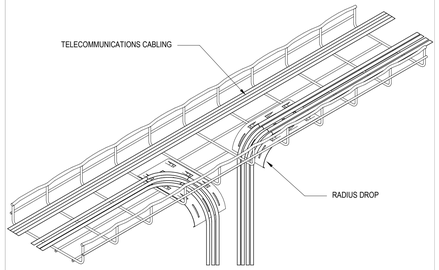
1. COMMUNICATIONS OUTLET WILL BE MODULAR (CONTRACTOR-SUPPLIED) ADAPTERS THAT SNAP INTO STANDARD KNOCK-OUTS IN THE FURNITURE PANELS ABOVE THE WORK SURFACE.
2. RUN COMMUNICATIONS CABLING FROM WALL- OR FLOOR-MOUNTED IN FEEDS INTO FURNITURE PANEL BASES, THEN DIRECTLY TO BE THE OUTLES VIA THE PANELS' INTERNAL RACEWAYS.
3. OUTLET CONFIGURATION VARIES WITH FURNITURE MANUFACTURER. CONTRACTOR SHALL COORDINATE WITH FURNITURE ENGINEER THE OUTLET CONFIGURATION. CONFIRM PART NUMBERS WITH PROJECT DOCUMENTS, OWNER IT SERVICES, OR ARCHITECT BEFORE INSTALLATION. CONFIRM ADAPTER COLOR WITH ARCHITECT.

2 TYPICAL SYSTEMS FURNITURE CLUSTER2
1/2" = 1'-0"

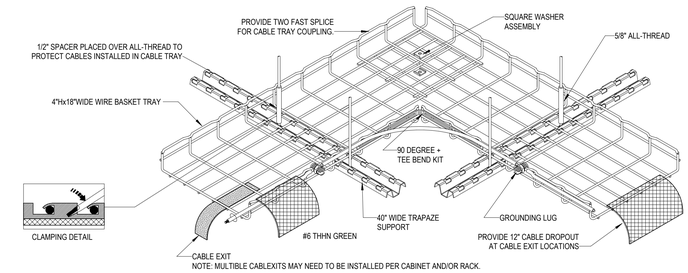


TRAY WIDTH	APPROX. INSIDE RADIUS	APPROX. OUTSIDE RADIUS
2"	5.5"	7.5"
4"	8.7"	12.7"
6"	11.8"	17.8"
8"	9.8"	17.8"
12"	15.7"	27.6"
18"	24.8"	42.5"
20"	28"	47.5"
24"	34.1"	57.7"

3 BASKET TRAY RADIUS DETAIL
1" = 1'-0"



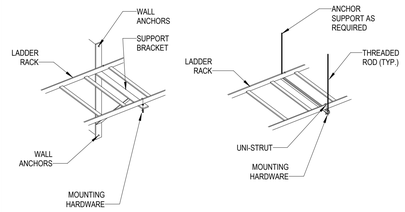
4 BASKET TRAY RADIUS DROP DETAIL
1" = 1'-0"



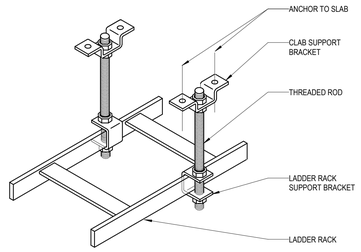
GENERAL NOTES:

1. CABLE TRAY MAY BE SUPPORTED WITH OTHER SUPPORT MECHANISMS THAT THE APPROVED MANUFACTURER HAS TO OFFER. CONTRACTOR SHALL OBTAIN, IN WRITING.
2. CABLE TRAY SHALL BE ROUTED AROUND, OVER OR UNDER ANY OBSTACLES THAT INTERFERE WITH THE DECLARED PATH. CONTRACTOR SHALL FOLLOW CUTTING AND BENDING RECOMMENDATIONS FROM THE MANUFACTURER'S INSTALLATION GUIDE AS WELL AS THE MINIMUM CABLE BEND RADIUS ALLOWED PER ANSI/TIA/EIA STANDARDS.
3. NOT ALL PARTS ARE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR A COMPLETE WORKING INSTALLATION INCLUDING MISCELLANEOUS APPURTENANCES.
4. ALL CABLES TRAY ADJD FITTING SHALL BE BLACK
5. CONTRACTOR IS RESPONSIBLE FOR REMOVING, REPLACING, AND/OR RETROFITTING CEILING TILES TO ACCOMMODATE INSTALLATION OF TRAPEZE SUPPORT.

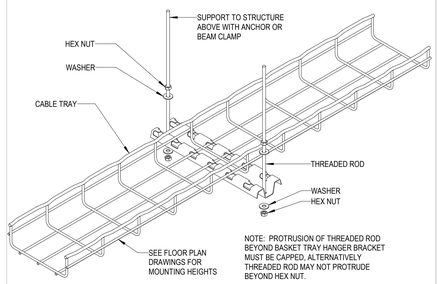
5 CABLE TRAY ROUTING AND ASSEMBLY DETAIL
1" = 1'-0"



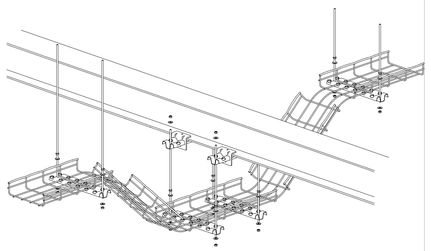
6 LADDER RACK MOUNTING DETAIL
1" = 1'-0"



7 TYPICAL LADDER RACK SLAB MOUNTING DETAIL
1" = 1'-0"



8 BASKET TRAY SUPPORT DETAIL
1" = 1'-0"



9 BASKET TRAY DROP DETAIL
1" = 1'-0"

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Key Plan:

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Veterinary Medical Center VRT Swing Space Renovation

SUCF#: 191030

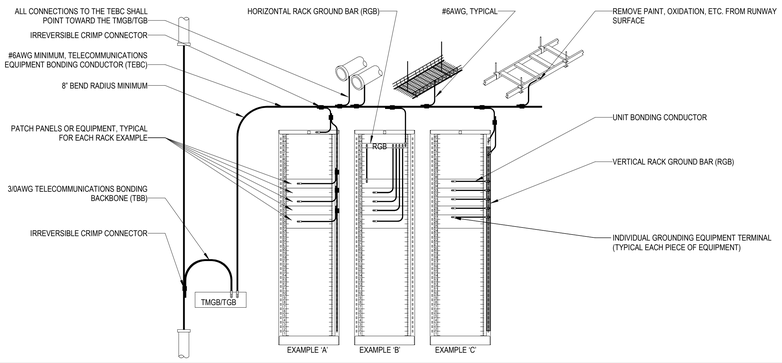
Project No.:225306010

TELECOMMUNICATIONS DETAILS SHEET

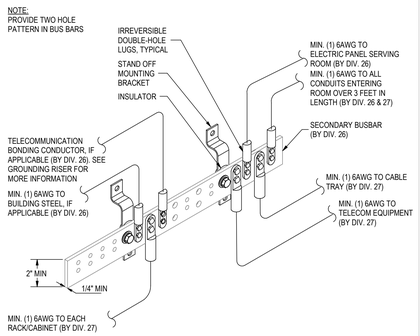
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Revision: **0**
Drawing No. **TC702**

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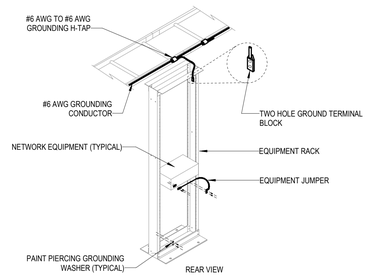
ORIGINAL SHEET - ARCH E1



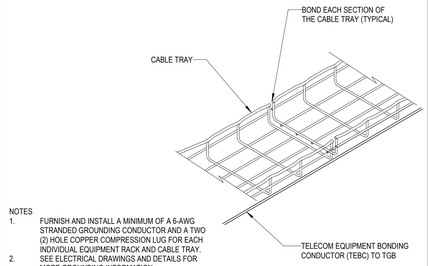
1 TC020 - TELECOMMUNICATIONS SYSTEM GROUNDING REQUIREMENTS+2
1" = 1'-0"



2 TELECOM GROUNDING BUS BAR (TGB) DETAIL
1" = 1'-0"

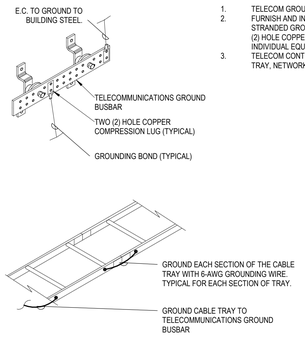


3 OVER HEAD RACK GROUNDING DETAIL
1" = 1'-0"



NOTES
1. FURNISH AND INSTALL A MINIMUM OF A 6-AWG STRANDED GROUNDING CONDUCTOR AND A TWO (2) HOLE COPPER COMPRESSION LUG FOR EACH INDIVIDUAL EQUIPMENT RACK AND CABLE TRAY.
2. SEE ELECTRICAL DRAWINGS AND DETAILS FOR MORE GROUNDING INFORMATION.

4 BASKET TRAY GROUNDING DETAIL
1" = 1'-0"



NOTES:
1. TELECOM GROUNDING BUSBAR TO BE INSTALLED.
2. FURNISH AND INSTALL A MINIMUM OF A 6-AWG STRANDED GROUNDING CONDUCTOR AND A TWO (2) HOLE COPPER COMPRESSION LUG FOR EACH INDIVIDUAL EQUIPMENT RACK AND CABLE TRAY.
3. TELECOM CONTRACTOR SHALL GROUND BASKET TRAY, NETWORK RACK AND SERVER CABINET.

5 TELECOMMUNICATION GROUNDING DETAILS2
1" = 1'-0"

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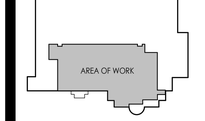
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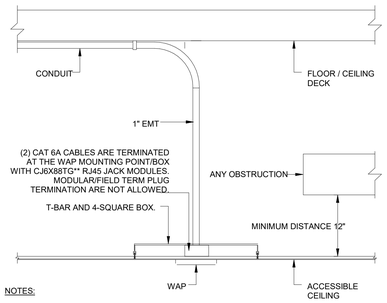
Project No.:225306010

TELECOMMUNICATIONS DETAILS SHEET

Scale: 1" = 1'-0"
Revision:**0**
Drawing No. **TC703**

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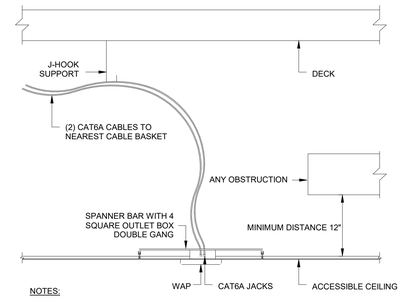
ORIGINAL SHEET - ARCH E1



NOTES:

1. MAXIMUM ALLOWABLE HEIGHT MOUNTING WAP IS 13' AFF.
2. AP OUTLET MUST NOT BE CLOSER THAN 12" TO ANY WALL.
3. NO OTHER OBJECT CAN BE IN THE SAME CEILING SQUARE AS THE AP SMOKE DETECTORS, SPRINKLER HEADS, OC SENSORS, ECT.

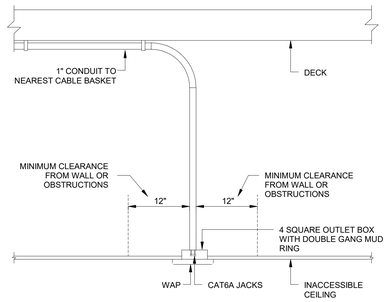
1 WIRELESS ACCESS POINT - ACCESSIBLE CEILING - CONDUIT
12" = 1'-0"



NOTES:

1. MAXIMUM ALLOWABLE HEIGHT MOUNTING WAP IS 13' AFF.
2. AP OUTLET MUST NOT BE CLOSER THAN 12" TO ANY WALL.
3. NO OTHER OBJECT CAN BE IN THE SAME CEILING SQUARE AS THE AP SMOKE DETECTORS, SPRINKLER HEADS, OC SENSORS, ECT.

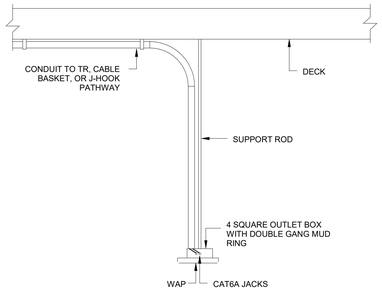
2 INDOOR CEILING MOUNTED WAP - ACCESSIBLE CEILING
12" = 1'-0"



NOTES:

1. MAXIMUM ALLOWABLE HEIGHT MOUNTING WAP IS 13' AFF.

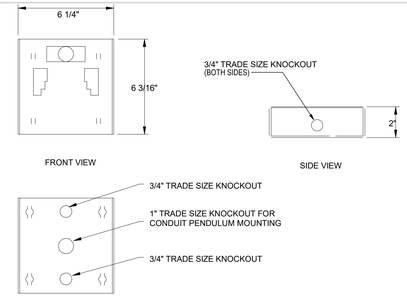
3 INDOOR CEILING MOUNTED WAP - INACCESSIBLE CEILING
12" = 1'-0"



NOTES:

1. MAXIMUM ALLOWABLE HEIGHT MOUNTING WAP IS 13' AFF.
2. WAP SHALL BE INSTALLED AT OR BELOW ELEVATION OF LIGHTING.

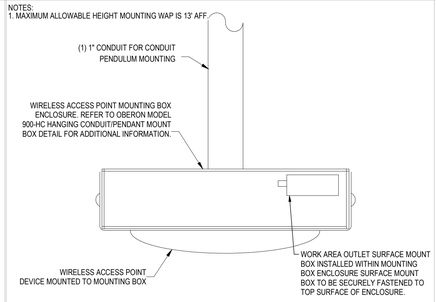
4 INDOOR CEILING MOUNTED WAP - OPEN CEILING
12" = 1'-0"



NOTES:

1. MAXIMUM ALLOWABLE HEIGHT MOUNTING WAP IS 13' AFF.

5 OBERON MODEL 900-HC -HANGING CONDUIT-PENDANT MOUNT BOX
12" = 1'-0"



OBERON MOUNT FOR ARUBA AP535:
FOR HANGING CONDUIT / PENDANT APPLICATIONS USE: 900-HC
WIRELESS ACCESS POINT NOTE:
CONTRACTOR SHALL INSTALL OWNER PROVIDED WIRELESS ACCESS POINT DEVICE WITHIN INDICATED WIRELESS ENCLOSURE. CONTRACTOR TOCOORDINATE EXACT LOCATION OF WIRELESS ACCESS POINT DEVICE / ENCLOSURE WITH OWNER PRIOR TO INSTALLATION.

6 WIRELESS ACCESS POINT WORK AREA OUTLET
12" = 1'-0"

Stantec

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Notes

0	ISSUED FOR PERMIT	2024.06.25

Issued/Revision YYYY.MM.DD

Issue Status

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Key Plan:

Cornell University

Veterinary Medical Center VRT Swing Space Renovation

SUCF#: 191030

Project No.:225306010

TELECOMMUNICATIONS DETAILS SHEET

Scale: 12" = 1'-0"
Revision:**0**
Drawing No. **TC704**

<Tick location in Project Information>
6/6/2024 3:05:09 PM

ORIGINAL SHEET - ARCH E1

SECURITY ABBREVIATIONS

-A-	
A	AMPERE
ACAMS	ACCESS CONTROL AND ALARM MONITORING SYSTEM
ACS	ACCESS CONTROL/VIDEO IMAGING SYSTEM
ADA	AMERICANS WITH DISABILITIES ACT
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AHC	ABOVE HUNG CEILING
ALM	ALARM
AWG	AMERICAN WIRE GAUGE
-B-	
BLDG	BUILDING
-C-	
C	CONDUIT
CAT	CATALOG
CCTV	CLOSED CIRCUIT TELEVISION
CHX	DOOR EXIT PUSH BAR
CLG	CEILING
CLOS	CLOSET
CONTRACTOR	PARTY CONTRACTED TO INSTALL SECURITY SYSTEM
CPS	CAMERA POWER SUPPLY
CPU	CENTRAL PROCESSING UNIT
CR	CARD READER
CRT	CATHODE RAY TUBE
-D-	
DA	DURESS ALARM
DC	DOOR CONTACT
DIP	DOOR INTERFACE PANEL
DVR	DIGITAL VIDEO RECORDER
-E-	
(E)	EXISTING
EA	EACH
EC	ELECTRIC CLOSET
EIC	EMERGENCY INTERCOM
EL	ELECTRIC LOCK
ELEC	ELECTRICAL
ENGINEER	STANTEC
EPT	ELECTRIC POWER TRANSFER
EQUIP	EQUIPMENT
ER	EXISTING TO REMAIN
ES	ELECTRIC STRIKE
ETR	EXISTING TO BE RELOCATED
EX	EXISTING
EXIST	EXISTING
-F-	
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHER DIVISION OF WORK
FL	FLOOR
FT	FEET OR FOOT
-G-	
G	GROUND
GC	GENERAL CONTRACTOR
GUI	GRAPHICAL USER INTERFACE
-H-	
HC	HUNG CEILING
HOST ACAMS	ACCESS CONTROL ALARM MONITORING SYSTEM PRIMARY COMPUTER
HZ	HERTZ
-I-	
IC	INTERCOM
ICM	INTERCOM MASTER
IP	INTERNET PROTOCOL
-J-	
JB	JUNCTION BOX
-L-	
LV	LOW VOLTAGE MAX MAXIMUM
-M-	
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MIC	MICROPHONE
MIN	MINIMUM
MON	MONITOR
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MXS	MATRIX SWITCHER
-N-	
N	NEUTRAL
NC	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT, NETWORK INTERFACE CONTROLLER
NO	NORMALLY OPEN
No.	NUMBER
NTS	NOT TO SCALE
NVR	NETWORK VIDEO RECORDER
-P-	
PA	PUBLIC ADDRESS
PB	PULL BOX
PBE	PUSH BUTTON EXIT
PIDS	PERIMETER INTRUSION DETECTION SYSTEM
PIR	PASSIVE INFRARED MOTION DETECTOR
PNL	PANEL
POE	POWER OVER ETHERNET
PRT	PRINTER
PTZ	PAN/TILT/ZOOM CAMERA
PWR	POWER
-R-	
R	EXISTING TO BE REMOVED
RE	RELOCATED EXISTING
REX	REQUEST TO EXIT - PIR OR PUSH-BUTTON
RM	ROOM
RPL	REPLACED EXISTING
RR	REMOTE RELEASE
-S-	
SCC	SECURITY COMMAND CENTER
SCP	SECURITY CONTROL PANEL
SPEC	SPECIFICATION
SPKR	SPEAKER
SS	SECURITY SYSTEM
STP	SHIELDED TWISTED PAIR
-T-	
TBD	TO BE DETERMINED
TEL	TELEPHONE
TLR	TIME LAPSE RECORDER
TS	TAMPER SWITCH
TTB	TELECOMMUNICATIONS TERMINAL BOARD
TTC	TELECOMMUNICATIONS TERMINAL CABINET
TV	TELEVISION TYP TYPICAL
TYP	TYPICAL
-U-	
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
-V-	
V	VOLT OR VOLTAGE
VA	VOLT-AMPERES
VM	VOLTMETER
VP	VAPOR PROOF
VSS	VIDEO SURVEILLANCE SYSTEM
-W-	
W	WATTS
WP	WATERPROOF
WT	WATERTIGHT
-X-	
XFRM	TRANSFORMER

SECURITY LOW VOLTAGE CABLE NOTES

1. THESE NOTES RELATE TO LOW VOLTAGE AND FIBER OPTIC WIRE AND CABLE THAT IS ASSOCIATED WITH CLOSED CIRCUIT TELEVISION (CCTV), ACCESS CONTROL, ALARM DEVICES, ANNUNCIATION AND INTERCOM UNITS, AND CERTAIN CONTROL, INDICATION, DETECTION DEVICES OR UNPROTECTED WIRES AND CABLES THAT ARE NOT CONTAINED WITHIN CONDUIT, PIPE, EMT, IMT, OR OTHER RACEWAY. THESE NOTES ALSO RELATE ONLY TO WIRE AND CABLE TO BE RUN WITHIN THE SPACE ABOVE A DROP CEILING AND BELOW THE TRUE CEILING OF THE LEVEL, & BELOW A RAISED FLOOR. THESE NOTES ARE IN ADDITION TO ANY AND ALL OTHER NOTES AND COMMENTS PERTAINING TO THE WORK INVOLVED.
2. CONTRACTOR TO VERIFY CEILING HEIGHTS FOR ALL AREAS PRIOR TO INSTALLING ANY CABLE. CABLING CONTRACTOR TO COORDINATE ANY COMPONENTS IN THE CEILING WITH ALL OTHER TRADES. EQUIPMENT AND ANY FIELD CONDITIONS. ANY CABLE TRANSITIONS ROUTED OVER HVAC DUCTS MUST NOT LAY ON TOP OF THE DUCTS AND MUST BE SUPPORTED OVER THE DUCTS.
3. DO NOT LAY CABLES OVER LIGHTING FIXTURES OR ELECTRICAL MACHINERY IN THE HUNG CEILING OR THE RAISED FLOOR. CABLES SHALL BE PLACES AT A MINIMUM OF EIGHTEEN INCHES. (18 AWAY FROM MAGNETIC INDUCING EQUIPMENT INCLUDING ELECTRICAL POWER SUPPLY, TRANSFORMERS, MOTORS AND GENERATORS; RADIO FREQUENCY SOURCES, RADAR - TRANSMITTERS, ELECTRIC POWER WIRING, INDUCTION HEATERS, FLUORESCENT FIXTURES, BALLASTS AND HIGH-INTENSITY DISCHARGE DEVICES.)
4. PROVIDE ALL PENETRATIONS AND RATED PARTITION FIRE STOPPING EVERY TIME A PARTITION IS TRAVERSED.
5. EXISTING FIREPROOFING MATERIAL, WHICH IS DISTURBED OR DAMAGED BY WORK UNDER THIS CONTRACT SHALL BE REPLACED AND RESTORED TO THE SATISFACTION OF THE BUILDING OWNER.
6. PROVIDE TRAPEZE, BRIDAL RINGS, CADDY HANGERS, J-HOOKS AND OTHER INDUSTRY-ACCEPTED METHODS REQUIRED TO SUPPORT ALL INSTALLED CABLES. DO NOT SUPPORT CABLES ON CEILING BACK IRON OR ANY OTHER DEVICES THAT ARE NOT INSTALLED BY THE CABLING CONTRACTOR OR THAT ARE NOT INTENDED FOR SUPPORTING CABLES, EXCEPT FOR GROUPS OF FIVE (5) OR FEWER COPPER CABLES. CABLE SUPPORTS SHALL BE ANCHORED TO THE UNDERSIDE OF THE SLAB AND CLAMPED TO BUILDING STEEL.
7. CABLES MUST BE SUPPORTED AT A MAXIMUM OF EVERY FIVE (5) FEET AND BUNDLES MUST BE TIE-WRAPPED TOGETHER AT A MAXIMUM OF EVERY TWO (2) FEET.
8. ALL CABLES SHALL BE INSPECTED AS THEY ARE PULLED OFF THE REEL FOR ANY OBVIOUS DEFECTS. REPORT ANY DEFECTS IMMEDIATELY TO THE ENGINEER AND HALT FURTHER USE OF THE CABLE FROM THAT REEL, PENDING A DETERMINATION OF THE QUALITY OF THE REEL BY THE MANUFACTURER.
9. THE CONTRACTOR SHALL PULL ALL CABLES IN CONTINUOUS SPLICE-FREE RUNS, WITH NO FACTOR OR FIELD SPLICES, UNLESS OTHERWISE SHOWN ON DRAWINGS AND/OR SPECIFIED.
10. ALL CABLES SHALL BE PULLED WITH NO MORE THAN 75% OF RATED TENSION. CONTRACTOR SHALL NOT EXCEED THE CABLE PULLING FORCE AND MINIMUM CABLE-BENDING RADIUS. CABLE TERMINATIONS SHALL BE DRESSED NEATLY AND DONE IN A WORKMANLIKE MANNER. TIE-WRAP CABLES AND CUT TO LENGTH AT TERMINATION POINTS.
11. PULLING AND LAYING CABLE ON SHARP EDGES IS NOT PERMITTED.
12. PARTICULAR ATTENTION MUST BE PAID TO THE PATH OF THE CABLE. VIDEO CABLES SHALL NOT BE RUN PARALLEL TO ANY WIRING NOT WITHIN GROUNDED ELECTRICAL CONDUIT. THIS INCLUDES METALLIC AND NON-METALLIC SHEATHED WIRE AND CABLE AND EXISTING LOW VOLTAGE WIRING THAT MAY INDUCE INTERFERENCE TO THE VIDEO CABLE. WHEREVER POSSIBLE, VIDEO CABLES SHOULD CROSS THIS WIRING AT A NINETY-DEGREE ANGLE. WHERE PARALLEL TRAVEL CAN NOT BE AVOIDED, MINIMAL SPACING REQUIREMENTS SHALL BE ADHERED TO. ALL ATTEMPTS SHALL BE MADE TO MAINTAIN A PARALLELED DISTANCE OF EIGHTEEN INCHES. WHERE THIS IS NOT POSSIBLE, AN ABSOLUTE MINIMUM OF SIX INCHES (6) SHALL BE MAINTAINED FOR ANY PARALLEL RUNS THAT EXCEEDING TWO RUNS THAT EXCEED TEN FEET (10') IN LENGTH.
13. ALL SECURITY CABLING MUST BE INSTALLED IN CONDUIT OR ENCLOSED RACEWAYS TO ENSURE PROPER PROTECTION, COMPLIANCE WITH SAFETY STANDARDS, AND PREVENTION OF PHYSICAL DAMAGE. THIS INCLUDES CABLING FOR CAMERAS, ACCESS CONTROL SYSTEMS, INTRUSION DETECTION, AND ANY OTHER SECURITY-RELATED EQUIPMENT. CONDUIT AND RACEWAYS MUST BE SECURELY FASTENED AND ROUTED TO MINIMIZE EXPOSURE TO ENVIRONMENTAL HAZARDS. ALL INSTALLATIONS SHALL ADHERE TO APPLICABLE CODES AND PROJECT SPECIFICATIONS.

SECURITY GENERAL NOTES

1. CONSULT SECURITY VENDOR PRIOR TO MAKING MODIFICATIONS TO SYSTEM WIRING.
2. ALL SYSTEM WIRING MUST BE TESTED AND FREE OF OPENS, SHORTS AND GROUNDS.
3. CONDUIT AND JUNCTION BOXES ARE NOT TO BE USED FOR UNRELATED WIRING.
4. INSTALLATION METHODS AND MATERIALS SHALL CONFORM WITH ALL APPLICABLE SECTIONS OF THE LOCAL ELECTRIC CODE.
5. THESE DRAWINGS ARE DIAGRAMMATIC. THEY SHOW DEVICE LOCATION, NUMBER OF CONDUCTORS, WIRE TYPE, CIRCUITING AND ROUTING. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO ENSURE THAT ALL CONDUIT AND PULL BOXES ARE SIZED IN ACCORDANCE WITH THE FILL REQUIREMENTS OF THE LOCAL ELECTRIC CODE.

SECURITY INTERGRATOR SCOPE OF WORK

SECURITY INTEGRATOR SCOPE OF WORK:

1. CERTIFIED RS2 / ACCESSIT FOR ACCESS CONTROL AND AXIS CAMERA SECURITY INTEGRATOR WILL WORK IN CONJUNCTION WITH OWNER INCLUDING BUILDING SUB-CONTRACTORS, TO INSTALL A CODE COMPLIANT ACCESS AND VIDEO SYSTEM. OWNER STANDARDS AND PREFERRED EQUIPMENT LIST WILL BE USED WITHOUT UNAPPROVED ALTERATIONS.
2. SECURITY INTEGRATOR WILL ULTIMATELY PROVIDE A FULLY FUNCTIONAL, CODE COMPLIANT SYSTEM, BY THE GO-LIVE DATE (TBD).
3. SECURITY INTEGRATOR WILL INSTALL RS2 / ACCESSIT CONTROLLERS OF APPROPRIATE CAPACITY PER THE GENERAL CONTRACTOR DRAWINGS. THERE SHOULD BE A MINIMUM OF ONE OPEN READER PORT PER FLOOR. PANELS MUST BE LOCATED IN DEDICATED SECURITY CLOSET.
4. SECURITY INTEGRATOR WILL PROVIDE AND INSTALL INPUT MODULES, OUTPUT MODULES, AND CONTROLLER, DOOR AND DEVICE POWER SUPPLIES IN SUFFICIENT QUANTITY AND CAPACITY TO SUPPORT THE SYSTEM.
5. SECURITY INTEGRATOR WILL VERIFY LIFE SAFETY REQUIREMENTS ARE COMPLIED WITH FOR ALL ELECTRIC LOCK DOORS TO INSURE LOCAL, STATE, AND FEDERAL CODES. SPECIAL ATTENTION SHOULD BE ADDRESSED TO REX BUTTONS ON ALL MAG-LOCK DOORS.
6. SECURITY INTEGRATOR WILL USE ONLY T-REX PIR MODELS AS SPECIFIED BY THE EQUIPMENT LIST.
7. SECURITY INTEGRATOR WILL PROVIDE AND INSTALL DOOR POWER SUPPLIES FOR ALL ELECTRIC LOCKING DEVICES WITH A MINIMUM 8 HOUR BATTERY BACKUP.
8. SECURITY INTEGRATOR MAY INCLUDE WORKING WITH BUILDING TO PROVIDE SPLITTER CAPABILITY ON UP TO 6 BUILDING READERS THAT WILL ALSO BE IN THE OWNER SYSTEM.
9. ALL 120VAC POWER MUST BE HARDWIRED TO THE SECURITY POWER SUPPLIES. THE SECURITY INTEGRATOR WILL COORDINATE WITH THE ELECTRICAL CONTRACTOR TO ENSURE PROPER CONNECTION WHEN A GENERAL CONTRACTOR IS INVOLVED OR ELSE THE SECURITY INTEGRATOR WILL BE RESPONSIBLE.
10. SECURITY INTEGRATOR WILL PROVIDE AND INSTALL POSITION SENSORS AND REQUEST TO EXIT DEVICES WHERE NECESSARY FOR ALL DOORS. REX BUTTONS WILL BE DPST TO SHUNT PIR TO DISARM DOOR BEFORE POWER IS CUT TO OPEN THE DOOR. ADDITIONAL DETAILS ARE:
    A. TIME DELAYED TO MEET THE LIFE SAFETY CODE REQUIREMENTS
    B. PNEUMATIC TIMER SO IT DOESN'T REQUIRE ADDITIONAL POWER (PUT IT IN SERIES WITH THE MAG LOCK POWER)
    C. "EMERGENCY DOOR RELEASE" WILL BE THE REQUIRED MARKINGS FOR OWNER.
    D. FITS IN A STANDARD SINGLE GANG ELECTRICAL BOX SAME AS A CARD READER.
    E. DPST CIRCUIT SO IT CAN BE WIRED TO UNLOCK THE MAG LOCKS AT THE DOOR AND A SEPARATE CIRCUIT TO WIRE TO REX INPUT.
11. SECURITY INTEGRATOR WILL PROVIDE AND INSTALL POSITION SENSORS ON THE ITS WORK ROOM, MAIL COUNTER, AND FILE ROOM AND OTHER ROLL-UP TYPE WINDOWS IF REQUIRED.
12. SECURITY INTEGRATOR WILL ENSURE CODE COMPLIANT DOOR RELEASE BUTTONS.
13. SECURITY INTEGRATOR WILL PROVIDE AND INSTALL EMERGENCY CALL STATION (VIKING 1600-45-IP) TO INDICATE PANIC BUTTON ACTIVATION AS NEEDED PER OFFICE AND SECURITY STANDARDS IF INDICATED.
14. NO EQUIPMENT ALTERNATIVES ARE ALLOWABLE WITHOUT OWNER SECURITY APPROVAL.
15. THE PROJECT IS NOT COMPLETE UNTIL MONITORING IS LIVE WITHOUT FALSE ALARMS.

VIDEO SYSTEM:

1. OWNER RUNS A CENTRAL IP VIDEO PROGRAM. ALL PROGRAMMING IS PART OF THE SCOPE OF WORK.
2. THE PREFERRED EQUIPMENT LIST WILL HAVE ACCEPTABLE CAMERAS. NO ALTERNATIVES ARE ALLOWABLE WITHOUT OWNER SECURITY APPROVAL.

SECURITY ELECTRICAL CONDUITS NOTES (BY EC)

1. ALL DEVICES IN OPEN CEILINGS OR TRANSITIONS BETWEEN OPEN/ENCLOSED CEILINGS SHALL BE IN CONDUIT AND PAINTED SAME COLOR AS CEILING IN OPEN AREAS.
2. DEVICES IN THE OPEN CEILING AREAS SHALL BE INDEPENDENTLY SUPPORTED VIA CHANNELS THREADED RODS.
3. SECURITY CONTRACTOR SHALL COORDINATE ALL CONDUITS AND OPEN CEILING DEVICE LOCATIONS WITH ELECTRICAL CONTRACTOR PRIOR TO BID AWARD.
4. PROVIDE UNISTRUT/ KINDORF FOR MOUNTING AROUND LARGE OBSTRUCTION SUCH AS DUCTWORK, LIGHTING FIXTURES, ETC.

SECURITY INSTALLATION NOTES

1. FOR THE PURPOSE OF THESE DOCUMENTS AND THIS PROJECT, ANY AND ALL CABLES THAT ARE WITHIN CRAWL SPACES, CLOSETS, TRENCHES, AND SIMILAR SPACES WHICH ARE NOT FULLY ENCLOSED WITHIN A WALL SHALL BE CONSIDERED AS EXPOSED.
2. ALL SECURITY, CONTROL, AND COMMUNICATION CABLING SHALL BE ENCLOSED WITHIN METALLIC RACEWAY OR CONDUIT WHEREVER THE CABLES ARE IN EXPOSED AREAS.
3. TERMINATIONS, CONNECTIONS, ATTACHMENT, SECURING AND METHODS OF WIRING AND CABLING SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ANY AND ALL APPLICABLE SECTIONS OF THE LOCAL ELECTRICAL CODE. THESE NOTES, DRAWINGS, SPECIFICATIONS, ADDENDA, AND ANY AUTHORITY HAVING JURISDICTION.
4. ALL CABLES, INCLUDING CLASS 2 AND CLASS 3 CABLES, SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE NEC. THIS INCLUDES, BUT IS NOT LIMITED TO, FIXATION OF WIRES OR CONDUIT TO SURFACES, WHETHER WITHIN OR WITHOUT CONCEALED AREAS, WITHIN DROP CEILINGS, AND WITHIN RAISED FLOORING AREAS.
5. ANY MATERIAL USED WITHIN A PLENUM AREA SHALL BE OF MATERIAL THAT HAS BEEN ACCEPTED AND RATED FOR PLENUM USE. THE USE OF PLASTIC OR NYLON TIE WRAPS ARE SPECIFICALLY PROHIBITED FROM USE WITHIN ANY PLENUM SPACE.
6. WIRING AT CABINETS, RACKS, AND WITHIN EQUIPMENT CLOSETS SHALL BE INSTALLED NEATLY AND PROFESSIONALLY. INNER DUCTS SHALL BE PROVIDED AND USED AS APPROPRIATE AND APPLICABLE; SHALL BE SUPPORTED WITH APPROPRIATE HARDWARE WIRE, CABLE AND JUMPERS; SHALL BE RUN THOUGH CABLE GUIDES AS APPROPRIATE. CABLES OR FASTENING DEVICE; THEY ARE NOT TO HANG BY THEIR OWN WEIGHT.
7. ALL CABLES AND INNER PAIRS SHALL BE LABELED WITHIN ONE FOOT OF TERMINATION. THIS IS TO BE PERFORMED USING A PERMANENT TYPE F TAG OR MARKING DEVICE. NUMBERED LABELS OR MARKERS THAT REQUIRE A REFERENCE SHEET, TABLE, LIST OR CHART ARE PROHIBITED. SELF LAMINATING LABELS OR STRING TAGS OR SUITABLE DURABILITY ARE TO BE USED.
8. ALL CRIMP TYPE TERMINALS, CONNECTORS LUGS AND SPLICES SHALL BE CRIMPED PROPERLY AND FULLY. PARTIAL OR WEAK CRIMPS WILL BE REJECTED.
9. CONDUIT RUNS SHALL BE LIMITED IN LENGTH TO EIGHTY FEET (80') BETWEEN PULLBOXES. A MAXIMUM OF 180 DEGREES OF BENDS IS PERMITTED BETWEEN PULLBOXES.
10. ANY CHANGE OR DEVIATION FROM ANY SPECIFICATION MUST BE APPROVED, IN WRITING, PRIOR TO CONSTRUCTION. NO ALLOWANCE WILL BE GIVEN FOR ANY CORRECTIVE WORK AS A RESULT OF NON COMPLIANCE WITH ANY SPECIFICATION.
11. ALL SECURITY SYSTEM DEVICES SHALL BE APPROPRIATELY GROUNDED.
12. SECURITY CONTRACTOR SHALL PROVIDE KEY OVERRIDE AT FRIDGE DOOR AND MAIN DOOR FOR BUILDING USE PER LANDLORD REQUEST.
13. CONTRACTOR SHALL SELECT LEED AND ROHS COMPLIMENT MATERIALS / DEVICES.
14. CONTRACTOR TO COORDINATE WITH DOOR HARDWARE CONTRACTOR FOR TO FINAL DOOR CONFIGURATION.
15. CONTRACTOR TO CONFIRM CAMERA LOCATIONS WITH OWNER PRIOR TO INSTALLATION.

SECURITY SYMBOL LIST

SYMBOL	MANUFACTURER	DESCRIPTION	MODEL NUMBER	CABLE TYPE
	AXIS	CORNER MOUNTED IP ELEVATOR CAMERA	P3735	BY OTHERS
180	AXIS	180° WALL MOUNTED IP CAMERA	P3827	BY OTHERS
	AXIS	90° WALL MOUNTED IP CAMERA	P3265	BY OTHERS
CR	HID / I-CLASS	ACCESS CONTROL CARD READER		BY OTHERS
ECS	VIKING 1600-45-IP	EMERGENCY CALL STATION	1600-45-IP	BY OTHERS
ACP		ACCESS CONTROL PANEL		BY OTHERS
PSP		POWER SUPPLY PANEL		BY OTHERS

SECURITY CABLE SCHEDULE

SYMBOL	DESCRIPTION	MAX. DISTANCE	CIRCUIT TYPE
A	BELDEN (OR EQUIVALENT) 18/6 SHIELDED	500 FT.	CARD READERS
B	BELDEN (OR EQUIVALENT) 18/2	500 FT.	DOOR SWITCHES/RELEASE/PANIC
C	BELDEN (OR EQUIVALENT) 18/4	500 FT.	REX DEVICE
D	BELDEN (OR EQUIVALENT) 16/2	500 FT.	LOCKING MECHS
E	BELDEN (OR EQUIVALENT) 18/4	500 FT.	INTRUSION/COMMS
F	CATEGORY 6 (BY TELECOM CONTRACTOR)	300 FT.	SURVEILLANCE VIDEO
G	BELDEN (OR EQUIVALENT) 18/2	750 FT.	STROBE POWER
H	CATEGORY 6 (BY TELECOM CONTRACTOR)	300 FT.	NETWORK COMM/INTERCOM
I	BELDEN (OR EQUIVALENT) COMPOSITE CABLE	300 FT.	FROM IDF TO DOOR

SECURITY DOOR SCHEDULE

ROOM NAME	DOOR NUMBER	DOOR DETAIL	CARD READER	DOOR SENSOR	ELECTRIC MORTISE LOCK	ELECTRIFIED PUSH BAR EXIT DEVICE	POWER OVER ETHERNET MORTISE LOCK	ELECTRIC POWER TRANSFER HINGE	PASSIVE INFRARED SENSOR	PUSH BUTTON REQUEST TO EXIT	BLUE PULL STATION	SECURITY HORN STROBE AUDIO/VISUAL ALARM	FIRE INTERFACE	INTERCOM	DELAY EGRESS
LEVEL 1															
C1024	265	AC-01	X	X	X		X	X							
C1021	479	AC-01	X	X	X		X	X							
C1001	C1001-1	AC-14	X	2X	X		X	X							
C1001	C1001-2	AC-14	X	2X	X		X	X							
C1001	C1001-3	AC-01	X	X	X		X	X							
C1001	C1001-4	AC-01	X	X	X		X	X							
C1001B	C1001B	AC-01	X	X	X		X	X							
C1001D	C1001D	AC-01	X	X	X		X	X							
C1001H	C1001H	AC-01	X	X	X		X	X							
C1001P	C1001P	AC-01	X	X	X		X	X							
C1001S	C1001S	AC-01	X	X	X		X	X							
C100SA	C1001S S	AC-01	X	X	X		X	X							
C1001T	C1001T	AC-01	X	X	X		X	X							
C1001U	C1001U	AC-01	X	X	X		X	X							
C1001VA	C1001V A	AC-01	X	X	X		X	X							
C1035	C1032	AC-14	X	2X	X		X	X							

SECURITY DOOR HARDWARE SETS

DOOR DETAIL	CARD READER	DOOR SENSOR	ELECTRIC MORTISE LOCK	ELECTRIFIED PUSH BAR EXIT DEVICE	POWER OVER ETHERNET MORTISE LOCK	ELECTRIC POWER TRANSFER HINGE	PASSIVE INFRARED SENSOR	PUSH BUTTON REQUEST TO EXIT	DESCRIPTION
AC-01	X	X	X		X	X			AC-01 POE ELECTRIC MORTISE LOCK SINGLE DOOR
AC-14	X	2X	X		X	X			AC-14 ELECTRIC LOCK - DOUBLE UNEVEN DOOR

SECURITY SHEET LIST

Sheet Number	Sheet Name
TY001	SECURITY COVER SHEET
TY101	1ST FLOOR - SECURITY CONSTRUCTION PLAN
TY700	SECURITY DETAILS
TY701	SECURITY DETAILS

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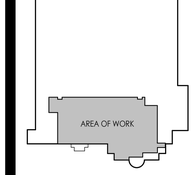
Notes

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Key Plan:



Cornell University.

Veterinary Medical Center VRT Swing Space Renovation

SUCF#: 191030

Project No.:225306010

SECURITY COVER SHEET

Scale: 12" = 1'-0"

Revision:**0**

Drawing No. **TY001**

*Pick location in Project Information
6/6/2024 3:57:02 PM

ORIGINAL SHEET - ARCH E1



1 TY101 **1ST FLOOR - SECURITY PLAN**

1/8" = 1'-0"

NOTES:

1. ALL LAB DOORS TO BE READY AND DRILLED FOR CARD ACCESS (TYP. FOR ALL)
2. COORD. WITH DH CONSULTANT TO REMOVE DOOR CLOSERS IF SPECIFIED.
3. ALL DEVICES AND PENETRATIONS OUDOORS SHALL BE WEATHER SEALED.
4. ALL CAMERAS SHALL BE HOME RUN TO CIT ROOM C2012.
5. ALL ACCESS CONTROL CABLING SHALL BE ROUTED VIA CONDUIT FROM END TO END, FROM DEVICE TO HEAD END IN ROOM C100UD.

(CORNELL TO VERIFY HEAD END ROOM LOCATION AND SELECTION)

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SUCF#: 191030

Project No.:225306010

1ST FLOOR - SECURITY CONSTRUCTION PLAN

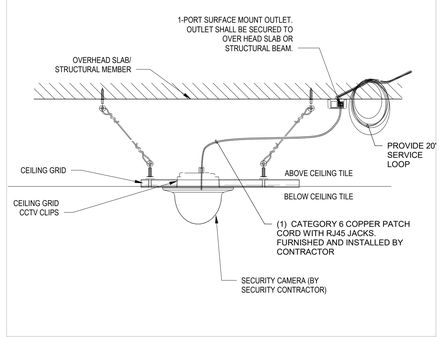
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Revision:**0**

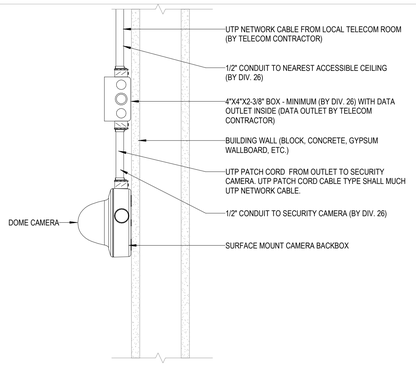
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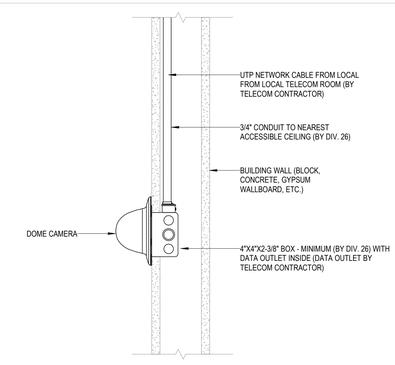
ORIGINAL SHEET - ARCH E1



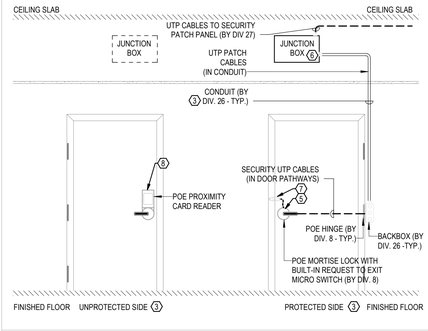
1 SECURITY CAMERA MOUNTING DETAIL
1/2" = 1'-0"



2 TYPICAL WALL SURFACE MOUNTED DOME CAMERA
1" = 1'-0"



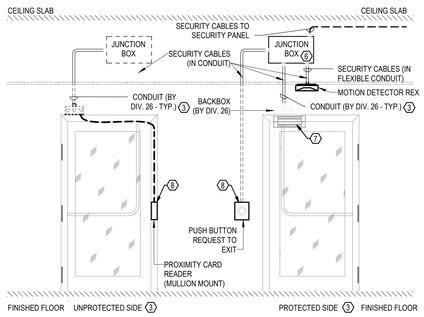
3 TYPICAL WALL MOUNTED DOME CAMERA
1" = 1'-0"



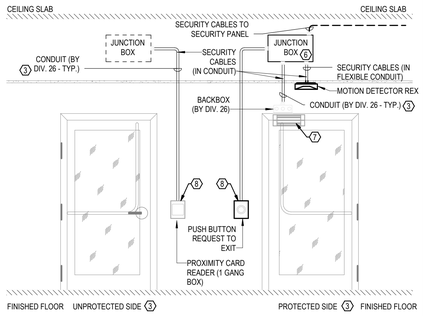
4 POE CARD READER SINGLE DOOR
1" = 1'-0"

SECURITY KEYNOTES

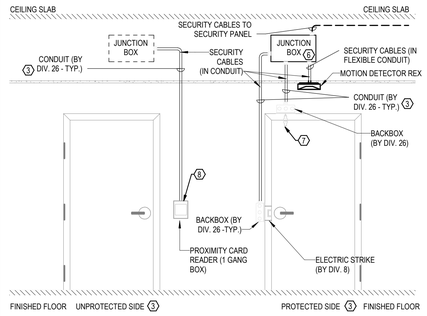
#	DESCRIPTION
1	CONNECT LOCK POWER SUPPLIES TO FIRE SYSTEM FOR RELEASE DURING FIRE CONDITION (COORDINATE WITH FIRE ALARM CONTRACTOR).
2	ALL WIRING SHALL BE RUN IN CONDUIT(PROVIDED AND INSTALLED BY DIVISION 26) UNLESS SHOWN OTHERWISE. UNLESS OTHERWISE SPECIFIED, ALL CONDUIT AND BACKBOXES SHALL BE PROVIDED AND INSTALLED BY DIVISION 26 ELECTRICAL CONTRACTOR. ALL CONDUIT TO BE 3/4" ELECTRO-METALLIC TUBING (EMT) AND RUN WITHIN WALLS UNLESS OTHERWISE SPECIFIED. CONDUIT STUB-UPS AND BACKBOXES FOR SECURITY CABLES ONLY REQUIRED WITHIN WALLS AND BELOW 8 FEET AFF.
3	DOOR DETAILS ARE TYPICAL FOR CONDUIT AND BACKBOX REQUIREMENTS. REFER TO FLOOR PLANS FOR ACTUAL DEVICE LOCATION AT EACH DOOR. COORDINATE ACTUAL CONDUIT AND BACKBOX REQUIREMENTS WITH DIVISION 8 AND DIVISION 26 CONTRACTORS.
4	ALL LOW VOLTAGE WIRING SHALL BE SUPPORTED FROM BLACK IRON IN CEILING.
5	LOCKS SHALL BE PROVIDED WITH BUILT-IN REQUEST TO EXIT (BY DIV. 8).
6	ALL JUNCTION BOXES SHALL BE MOUNTED ON THE PROTECTED SIDE OF THE DOOR (BY DIV. 26). MOUNT BOX SECURELY ON CEILING SLAB OR ON WALL MINIMUM TWELVE INCHES ABOVE CEILING TILE. BOX COVER TO BE ACCESSIBLE. COORDINATE LOCATION WITH OTHER TRADES.
7	RECESSED CONTACTS SHALL BE INSTALLED FOUR INCHES FROM LATCH SIDE OF DOOR. BACKBOX SHALL BE CENTERED ON CONTACT LOCATION. WIRING FOR DEVICES ON DOUBLE DOORS SHALL BE RUN THROUGH HOLLOW METAL FRAMES.
8	SECURITY CONTRACTOR SHALL COORDINATE ALL LOCATIONS WITH THE ARCHITECT AND ELECTRICAL CONTRACTOR. COORDINATE COLOR AND FINISH REQUIREMENTS, AS NECESSARY.
9	WIRING TO BE PROVIDED AND INSTALLED BY DIVISION 26 ELECTRICAL CONTRACTOR.
10	ALL DIMENSIONS ARE APPROXIMATE AND ARE TO BE FIELD COORDINATED.
11	ALL ELECTRICAL OUTLETS ARE SHOWN FOR COORDINATION PURPOSES ONLY, PROVIDED BY ELECTRICAL CONTRACTOR.
12	ALL TELECOMMUNICATION OUTLETS AND BACKBOXES ARE SHOWN FOR COORDINATION PURPOSES ONLY, PROVIDED BY TELECOMMUNICATIONS CONTRACTOR.



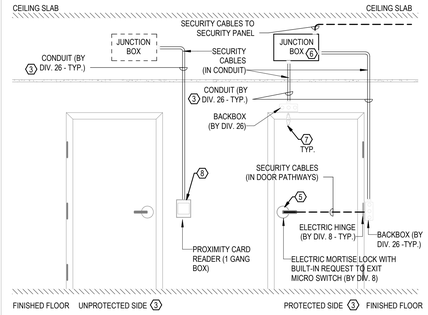
5 MULLION CARD READER SINGLE GLASS DOOR MAG LOCK
1" = 1'-0"



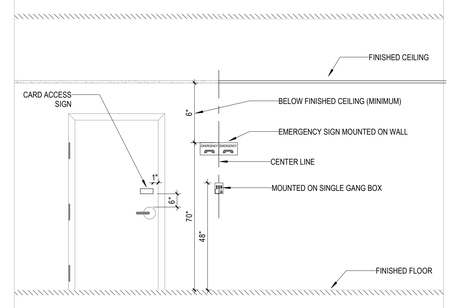
6 CARD READER SINGLE GLASS DOOR ELECTROMAGNETIC LOCK
1" = 1'-0"



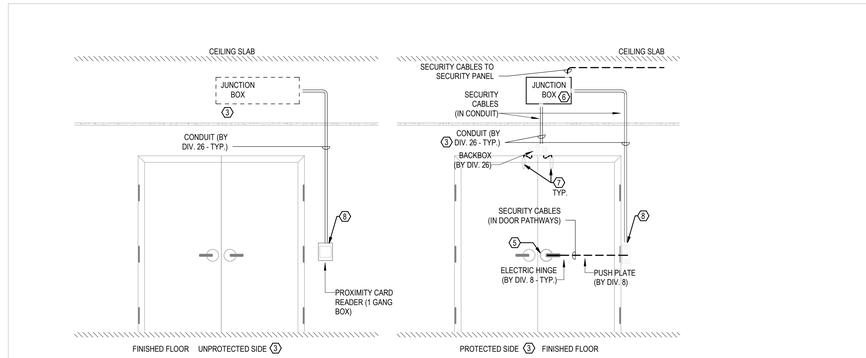
7 CARD READER SINGLE DOOR WITH ELECTRIC STRIKE
1" = 1'-0"



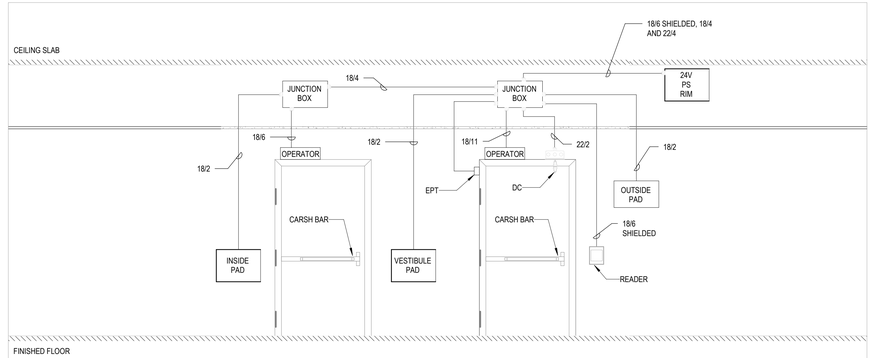
8 CARD READER SINGLE DOOR - ELECTRIC MORTISE LOCK W/ REX
1" = 1'-0"



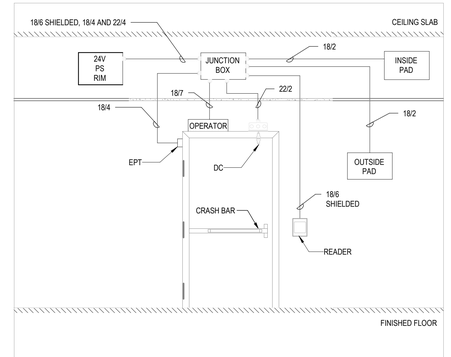
9 EMERGENCY PHONE SURFACE MOUNT DETAIL DIAGRAM
1" = 1'-0"



10 CARD READER DUAL/UNEVEN DOOR - ELECTRIC MORTISE LOCK
1" = 1'-0"



11 ENTRY WITH VESTIBULE ACCESS CONTROL
1" = 1'-0"



12 SINGLE DOOR ACCESS CONTROL
N.T.S.

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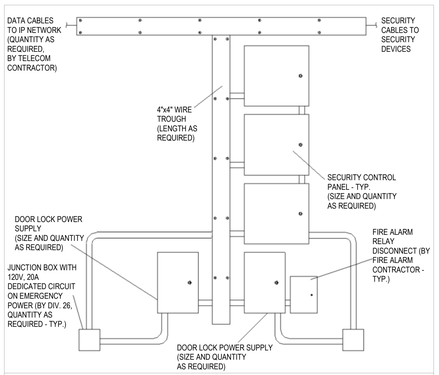
Project No.:225306010

SECURITY DETAILS

Scale: As indicated
Revision:0
Drawing No. **TY700**

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ORIGINAL SHEET - ARCH E1



1 TYPICAL SECURITY PANEL AND POWER SUPPLY INSTALLATION DETAIL

1" = 1'-0"

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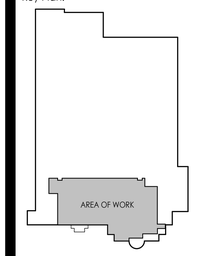
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Project No.:225306010

SECURITY DETAILS

Scale: 1" = 1'-0"

Revision:**0**

Drawing No. **TY701**

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ORIGINAL SHEET - ARCH E1