MENDENHALL COMMUNICATIONS SUITE RENOVATION

500 9TH STREET, GREENVILLE, NC 27858

SCO ID: 23-26440-01A

DESIGN TEAM

OWNER:

East Carolina University
Greenville, North Carolina
Contact: LL Everett
Phone: (252) 328-2931

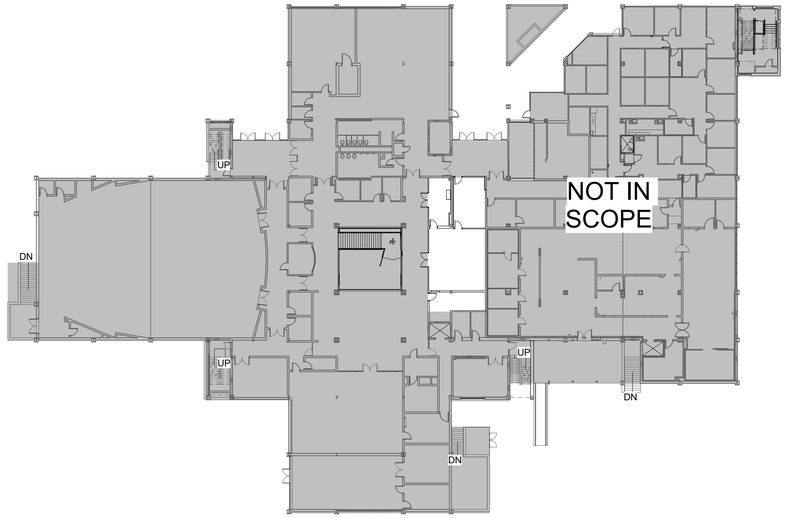
ARCHITECT:

Davis Kane Architects P.A.
Raleigh, North Carolina
Contact: Robert Stevenson
Phone: (919) 833-3737

MEP ENGINEER:

Salas O'Brien
Durham, North Carolina
Contact: Addison Dee
Phone: (919) 833-8118

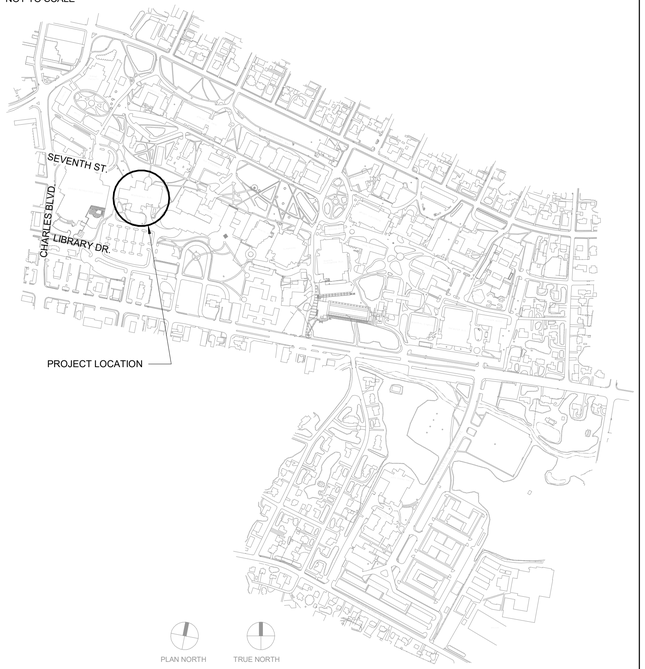
SHEET INDEX



1ST FLOOR PLAN OVERALL
NTS

VICINITY MAP

NOT TO SCALE



ABBREVIATIONS

@	AT
AB	ANCHOR BOLT
ACCESS	ACCESSORY
ACT	ACOUSTIC(AL) CEILING TILE
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECTUR(AL)
AV	AUDIO VISUAL
BD	BOARD
BEJ	BUILDING EXPANSION JOINT
BFF	BELOW FINISHED FLOOR
BID	BID
BLDG	BUILDING
BLKG	BLOCKING
BOD	BOTTOM OF DECK
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
CI	CAST IRON
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CLSM	CLASSROM
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CPT	CARPET
CR	CARD READER
CSK	COUNTER SUNK
CT	CERAMIC TILE
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DS	DOWN SPOUT
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
EJC	EXPANSION JOINT COVER

EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
EXTG	EXISTING
FACT	FACTORY FINISH
FB	FLOOR BOX
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FF&E	FURNITURE, FIXTURES & EQUIPMENT
FFE	FINISHED FLOOR ELEVATION
FIN	FINISH
FLR	FLOOR
FLUOR	FLUORESCENT
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FRP	GLASS FIBER REINFORCED PLASTIC PANELS
FRT	FIRE-RETARDANT-TREATED
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACT(OR)
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLASS
GLZ	GLAZING
GWB	GYPSUM WALL BOARD
GYP BD	GYPSUM BOARD
HB	HOSE BIBB
HD	HEAVY DUTY
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
ID	INSIDE DIAMETER
IF	INSIDE FACE
INSUL	INSULATION
INT	INTERIOR
KLP	KICKPLATE

LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LIN	LINOLEUM
LVR	LOUVER
LVT	LUXURY VINYL TILE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MBL	MARBLE
MECH	MECHANICAL
MEMB	MEMBRANE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
NA	NOT APPLICABLE
NIC	NOT IN CONTRCT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OVERHANG
OHD	OVER HEAD
OPCI	OWNER PROVIDED CONTRACTOR INSTALLED
OPNG	OPENING(S)
OPP	OPPOSITE
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PNT	PAINT(ED)
PROP	PROPERTY
PSF	POUNDS / SQUARE FOOT
PSI	POUNDS / SQUARE INCH
PT	PRESSURE-TREATED
PTN	PARTITION
PVC	PLOYVINYL CHLORIDE
QT	QUARRY TILE
QTY	QUANTITY
R	RADIUS
RA	RETURN AIR
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN

RDL	ROOF DRAIN LEADER
REBAR	STEEL REINFORC. BAR
REF	REFER(ENCE)
REINF	REINFORCE(D)(ING)(MENT)
REQD	REQUIRED
REV	REVISION(S) REVISED
RM	ROOM
SC	SOLID CORE
SECT	SECTION
SF	SQUARE FEET
SFRM	SPRAYED FIRE-RESISTIVE
SHT	SHEET
SIM	SIMILAR
SLSF	SOLID SURFACE
SPEC	SPECIFICATION(S)
SPKLR	SPRINKLER
SQ IN	SQUARE INCH
SS	STAINLESS STEEL
ST	SIGN TYPE
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRFR	STOREFRONT
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYS	SYSTEM(S)
TEL	TELEPHONE
THRES	THRESHOLD
TOM	TOP OF MASONRY
TOS	TOP PF STEEL
TYP	TYPICAL
TZ	TERRAZZO
UON	UNLESS OTHERWISE NOTED
UTIL	UNINTERRUPTED POWER SUPPLY
VB	VINYL BASE
VCT	VINYL COMPOSITE TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WG	WIRED GLASS
WSCT	WAINSCOT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

DAVIS KANE ARCHITECTS, PA
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PROJECT INFORMATION

MENDENHALL COMMUNICATION SUITE
EAST CAROLINA UNIVERSITY
500 9TH STREET, GREENVILLE, NC 27858

SEALS

DAVIS KANE ARCHITECTS, P.A. — REGISTERED ARCHITECTURAL CORPORATION — 50304 — NORTH CAROLINA — RALEIGH, N.C.

ROBERT C. STEVENSON — REGISTERED ARCHITECT — 6214 — 8.29.23 — NORTH CAROLINA — RALEIGH, N.C.

DKA JOB NUMBER
2310

REVISIONS

PA:
PM: JHW
Drawn By: BG
Plot Date: 9/1/2023 10:21:25 AM

DATE ISSUED

BID DOCUMENTS
08/29/2023

SHEET TITLE
COVER SHEET

G000

APPENDIX B
2018 BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES)

NAME OF PROJECT: MENDENHALL COMMUNICATIONS SUITE
ADDRESS: 500 9TH STREET, GREENVILLE, NC **ZIP CODE:** 27858
OWNER/AUTHORIZED AGENT: L.L. EVERETT **PHONE #:** (252) 328-2931
E-MAIL: everettle@ecu.edu
OWNED BY: ☐ CITY/COUNTY ☐ PRIVATE ☒ STATE
CODE ENFORCEMENT JURISDICTION: ☐ CITY ☐ COUNTY ☒ STATE
NAME OF JURISDICTION: STATE OF NORTH CAROLINA

CONTACT: ROBERT STEVENSON, ARCHITECT

DESIGNER	NAME	FIRM	LIC. #	PHONE #	EMAIL
ARCHITECTURAL	Robert Stevenson	Davis Kane Architects	6214	(919) 833-3737	rstevenson@daviskane.com
CIVIL			-		
LANDSCAPE			-		
ELECTRICAL	Addison Dee	Salas O'Brien		(919) 832-8118	addison.dee@salasobrien.com
FIRE ALARM	Addison Dee	Salas O'Brien		(919) 832-8118	addison.dee@salasobrien.com
PLUMBING	Justin Sarfin	Salas O'Brien		(919) 832-8118	justin.sarfin@salasobrien.com
MECHANICAL	Roger Woods	Salas O'Brien		(919) 832-8118	roger.woods@salasobrien.com
SPRINKLER / STANDPIPE	Justin Sarfin	Salas O'Brien		(919) 832-8118	justin.sarfin@salasobrien.com
STRUCTURAL	Andrew Warnke	Kaydos-Daniels Engineering	038706	(919) 828-4966	andrew@kaydos-daniels.com
RETAINING WALLS >5' HIGH	-	-	-	-	-
OTHER	-	-	-	-	-
OTHER	-	-	-	-	-

YEAR EDITION OF CODE:

2018 NC BUILDING CODE: ☐ NEW BUILDING ☐ ADDITION ☒ RENOVATION ☐ 1ST TIME INTERIOR COMPLETION ☐ SHELL / CORE ☐ PHASED CONSTRUCTION - SHELL/ CORE

2018 NC EXISTING BUILDING CODE: (CHECK ALL THAT APPLY) ☐ PRESCRIPTIVE ☐ REPAIR ☐ CHAPTER 14 ☐ ALTERATION LEVEL I ☒ ALTERATION LEVEL II ☐ ALTERATION LEVEL III ☐ HISTORIC PROPERTY ☐ CHANGE OF USE

CONSTRUCTED (DATE): 1970 **CURRENT OCCUPANCY(S) (CH. 3):** BUSINESS GROUP B
RENOVATED (DATE): 1987 **PROPOSED OCCUPANCY(S) (CH. 3):** BUSINESS GROUP B
RISK CATEGORY (TABLE 1604.5): **CURRENT:** III **PROPOSED:** III

BASIC BUILDING DATA:

CONSTRUCTION TYPE: (CHECK ALL THAT APPLY) ☐ I-A ☐ I-B ☒ II-A ☐ II-B ☐ III-A ☐ III-B ☐ IV ☐ V-A ☐ V-B
SPRINKLERS: ☐ NO ☒ PARTIAL ☐ YES ☒ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
STANDPIPES: ☐ NO ☒ CLASS - I ☐ CLASS - II ☐ CLASS - III ☒ WET ☐ DRY
PRIMARY FIRE DISTRICT: ☒ NO ☐ YES
FLOOR HAZARD AREA: ☒ NO ☐ YES
SPECIAL INSPECTIONS REQUIRED: ☐ NO ☒ YES

GROSS BUILDING AREA:

FLOOR	EXISTING (SQ FT)	RENOVATED (SQ FT)	NEW (SQ FT)	SUB-TOTAL
GROUND FLOOR	12,120 SQ FT	0 SQ FT	0 SQ FT	38,983 SQ FT
1ST FLOOR	38,500 SQ FT	1,224 SQ FT	0 SQ FT	38,500 SQ FT
2ND FLOOR	41,450 SQ FT	0 SQ FT	0 SQ FT	42,135 SQ FT
TOTAL:	92,070 SQ FT	1,224 SQ FT	0 SQ FT	120,116 SQ FT

ALLOWABLE AREA

PRIMARY OCCUPANCY CLASSIFICATION(S):
ASSEMBLY: ☒ A-1 ☐ A-2 ☒ A-3 ☐ A-4 ☐ A-5
BUSINESS: ☒
EDUCATIONAL: ☐
FACTORY: ☒ F-1 MODERATE ☐ F-2 LOW
HAZARDOUS: ☐ H-1 DETONATE ☐ H-2 DEFLAGATE ☐ H-3 COMBUST ☐ H-4 HEALTH ☐ H-5 HPM
INSTITUTIONAL: ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
I-1 CONDITION ☐ 1 ☐ 2
I-2 CONDITION ☐ 1 ☐ 2
I-3 CONDITION ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
MERCANTILE: ☐
RESIDENTIAL: ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
STORAGE: ☐ S-1 MODERATE ☐ S-2 LOW ☐ HIGH-PILED ☐ PARKING GARAGE ☐ REPAIR GARAGE ☐ OPEN ☐ ENCLOSED
UTILITY AND MISC: ☐

ACCESSORY OCCUPANCY CLASSIFICATION(S): Storage S-2 Low, Assembly A1, Assembly A3
INCIDENTAL USES (TABLE 509): N/A
THIS SEPARATION IS NOT EXEMPT AS A NON-SEPARATED USE (SEE EXCEPTIONS).
SPECIAL USES (CHAPTER 4 - LIST CODE SECTIONS): N/A
SPECIAL PROVISIONS (CHAPTER 5 - LIST CODE SECTIONS): -
MIXED OCCUPANCY: ☐ NO ☒ YES **SEPARATION:** N/A Hr. **EXCEPTION:** N/A

$$\frac{\text{ACTUAL AREA OF OCCUPANCY A}}{\text{ALLOWABLE AREA OF OCCUPANCY A}} + \frac{\text{ACTUAL AREA OF OCCUPANCY B}}{\text{ALLOWABLE AREA OF OCCUPANCY B}} \leq 1$$

	A-1+A-3		B		S-2		F-1				
GROUND	5,587 / 25,838	+	18,533 / 62,512	+	8,065 / 65,013	+		=	0.64		1
FIRST	7,304 / 25,838	+	11,960 / 62,512	+	1,729 / 65,013	+	6,046 / 41,675	=	0.65		1
SECOND	9,359 / 25,838	+	10,964 / 62,512	+	2,351 / 65,013	+	471 / 41,675	=	0.60		1

STORY NO.	DESCRIPTION AND USE	(B) BUILDING AREA PER STORY ACTUAL	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE[1]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2]
G	A-1	38,983 SQ FT	46,500 SQ FT	---	46,500 SQ FT
1	A-1	38,500 SQ FT	46,500 SQ FT		46,500 SQ FT
2	A-1	42,135 SQ FT	46,500 SQ FT	---	46,500 SQ FT

[1] - Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = _____ (F/P)
d. Minimum Width of Public Way = _____ (W)
e. Percentage of frontage increase If = 100[F/P – 0.25] x W/30 = _____ (%)
[2] - Unlimited area applicable under conditions of Section 507.
[3] - Maximum Building Area = total number of stories in the building x D (506.2)
[4] - The maximum area of open parking garages must comply with 406.5.4. The maximum area of traffic control towers must comply with Table 412.3.1.
[5] - Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
BUILDING HEIGHT IN FEET	85 FEET	45 FEET	504.3
BUILDING HEIGHT IN STORIES	4 STORIES	3 STORIES	504.4

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
[2] The maximum height of air traffic control towers must comply with Table 412.3.1.
[3] The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPAR DISTANCE (FEET)	RATING REQ.	RATING PROVIDED (w/___ *Reduction)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
STRUCTURAL FRAME (INCLUDING COLUMNS, GIRDERS, TRUSSES)	-	1	1			-	-
BEARING WALLS	-	-	-	-	-	-	-
EXTERIOR NORTH	>30'	-	-	-	-	-	-
EXTERIOR EAST	>30'	-	-	-	-	-	-
EXTERIOR WEST	>30'	-	-	-	-	-	-
EXTERIOR SOUTH	>30'	-	-	-	-	-	-
INTERIOR	-	-	-	-	-	-	-
NONBEARING WALLS AND PARTITIONS	-	0	0	-	-	-	-
EXTERIOR NORTH	>30'	0	0	-	-	-	-
EXTERIOR EAST	>30'	0	0	-	-	-	-
EXTERIOR WEST	>30'	0	0	-	-	-	-
EXTERIOR SOUTH	>30'	0	0	-	-	-	-
INTERIOR WALLS AND PARTITIONS		0	0				-
FLOOR CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS)		1	1				-
FLOOR CEILING ASSEMBLY	-	-	-	-	-	-	
COLUMNS SUPPORTING FLOORS		1	1			-	
ROOF CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS)		1	1			-	-
ROOF CEILING ASSEMBLY		1	1			-	-
COLUMNS SUPPORTING ROOF		1	1			-	-
SHAFT ENCLOSURES - EXIT		1	1			-	-
SHAFT ENCLOSURES - OTHER		1	1			-	-
CORRIDOR SEPARATION	-	-	-	-	-	-	-
OCCUPANCY / FIRE BARRIER SEPARATION	-	-	-	-	-	-	-
PARTY / FIRE WALL SEPARATION	-	-	-	-	-	-	-
SMOKE BARRIER SEPARATION	-	-	-	-	-	-	-
SMOKE PARTITION				-	-	-	-
TENANT / DWELLING UNIT / SLEEPING UNIT SEPARATION	-	-	-	-	-	-	-
INCIDENTAL USE SEPARATION	-	-	-	-	-	-	-

*Indicate section number permitting reduction

PERCENT OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
-	-	-	-
-	-	-	-
-	-	-	-

(NOT APPLICABLE)

LIFE SAFETY SYSTEM REQUIREMENTS

EMERGENCY LIGHTING: ☐ NO ☒ YES
EXIT SIGNS: ☐ NO ☒ YES
FIRE ALARM: ☐ NO ☒ YES
SMOKE DETECTION SYSTEMS: ☐ NO ☐ YES ☒ PARTIAL
CARBON MONOXIDE DETECTION: ☒ NO ☐ YES

LIFE SAFETY PLAN REQUIREMENTS

LIFE SAFETY PLAN SHEET: G003

☒ FIRE AND / OR SMOKE RATED WALL LOCATIONS (CHAPTER 7)
☐ ASSUMED AND REAL PROPERTY LINE LOCATIONS (IF NOT ON THE SITE PLAN)
☐ EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8) N/A
☒ OCCUPANCY TYPES FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.2)
☒ OCCUPANT LOADS FOR EACH AREA
☒ EXIT ACCESS TRAVEL DISTANCES (1017)
☒ COMMON PATH OF TRAVEL DISTANCES (1006.2.1 & 2006.3.2(1))
☒ DEAD END LENGTHS (1020.4)
☐ CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
☒ MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.3)
☒ ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR
☒ A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR / CEILING AND / OR ROOF STRUCTURE IS PROVIDED FOR PURPOSES OF OCCUPANCY SEPARATION AND SUPPORTING CONSTRUCTION FOR A FIRE BARRIER/FIRE PARTITION/SMOKE BARRIER.
☒ LOCATION OF DOORS WITH PANIC HARDWARE (1010.1.10)
☐ LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND THE AMOUNT OF DELAY (1010.1.9.7) N/A
☐ LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1010.1.9.9) N/A
☐ LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES N/A
☐ LOCATION OF EMERGENCY ESCAPE WINDOWS (1030) N/A
☐ THE SQUARE FOOTAGE OF EACH FIRE AREA (202) N/A
☐ THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT FOR OCCUPANCY CLASSIFICATION I-2 (407.5) N/A
☐ NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE. N/A

ACCESSIBLE DWELLING UNITS (SECTION 1107)

TOTAL # OF UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
-	-		-	-	-	-	-

ACCESSIBLE PARKING (SECTION 1106)

LOT OR AREA PARKING	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE PARKING SPACES PROVIDED: REGULAR WITH 5' ACCESSIBLE AISLE	VAN SPACE WITH 132" ACCESSIBLE AISLE	VAN SPACE WITH 96" ACCESSIBLE AISLE	TOTAL # ACCESSIBLE PROVIDED
-	-	-	-	-	-	-
-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE		WATER CLOSETS MALE	WATER CLOSETS FEMALE	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	SHOWERS / TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
SPACE	EXISTING	16	30	13	26	24	-	11	
	NEW	1	0	0	0	0	-	0	2
	REDUCED	0	0	0	0	0	-		
	REQUIRED	12	12	6	11	11		6	6

NOTE: REMOVING PLUMBING FIXTURES TO MAKE THE SPACE COMPLY WITH ACCESSIBILITY CODE REQUIREMENTS, THE REDUCED COUNT COMPLIES WITH TOTAL FIXTURE REQUIREMENT

SPECIAL APPROVALS

SPECIAL APPROVAL REQUIRED: ☐ NO ☒ YES
☐ LOCAL JURISDICTION ☒ SCO ☐ DHHS
☐ DEPARTMENT OF INSURANCE ☐ DPI ☐ OTHER: -
DESCRIPTION: -

EXISTING TO REMAIN UNCHANGED

DAVIS KANE ARCHITECTS, PA
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PROJECT INFORMATION

MENDENHALL COMMUNICATION SUITE
EAST CAROLINA UNIVERSITY
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SEALS

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ROBERT C. STEVENSON REGISTERED ARCHITECT 6214 8.29.23 NORTH CAROLINA RALEIGH, N.C.

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SHEET TITLE
CODE SUMMARY

G001

ENERGY SUMMARY

ENERGY REQUIREMENTS:
THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF PERFORMANCE METHOD, STATE THE ANNUAL ENERGY COST FOR THE STANDARD REFERENCE DESIGN VS ANNUAL ENERGY COST FOR THE PROPOSED DESIGN.

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: -

EXEMPT BUILDING (PROVIDE CODE OR STATUTORY REFERENCE): -

CLIMATE ZONE: 3A

METHOD OF COMPLIANCE: PRESCRIPTIVE
(IF "OTHER", SPECIFY SOURCE HERE)

THERMAL ENVELOPE (PRESCRIPTIVE METHOD ONLY)

ROOF / CEILING ASSEMBLY (EACH ASSEMBLY)
- DESCRIPTION OF ASSEMBLY:
- U-VALUE OF TOTAL ASSEMBLY:
- R-VALUE OF INSULATION:
- SKYLIGHTS IN EACH ASSEMBLY:
- U-VALUE OF SKYLIGHT:
- TOTAL SQUARE FOOTAGE OF SKYLIGHTS IN EACH ASSEMBLY:

EXTERIOR WALLS - EXISTING TO REMAIN
- DESCRIPTION OF ASSEMBLY:
- U-VALUE OF TOTAL ASSEMBLY:
- R-VALUE OF INSULATION:
- OPENINGS (WINDOWS OR DOORS WITH GLAZING)
  - U-VALUE OF ASSEMBLY:
  - SOLAR HEAT GAIN COEFFICIENT: -
  - PROJECTION FACTOR: -
  - DOOR R-VALUES: -

EXTERIOR WALLS - ASSEMBLY 2
- DESCRIPTION OF ASSEMBLY:
- U-VALUE OF TOTAL ASSEMBLY: -
- R-VALUE OF INSULATION: -
- OPENINGS (WINDOWS OR DOORS WITH GLAZING)
  - U-VALUE OF ASSEMBLY: -
  - SOLAR HEAT GAIN COEFFICIENT: -
  - PROJECTION FACTOR: -
  - DOOR R-VALUES: -

WALLS BELOW GRADE - EXISTING TO REMAIN
- DESCRIPTION OF ASSEMBLY:
- U-VALUE OF TOTAL ASSEMBLY: -
- R-VALUE OF INSULATION: -

FLOORS OVER UNCONDITIONED SPACE - EXISTING TO REMAIN
- DESCRIPTION OF ASSEMBLY: -
- U-VALUE OF TOTAL ASSEMBLY: -
- R-VALUE OF INSULATION: -

FLOORS SLAB ON GRADE
- DESCRIPTION OF ASSEMBLY: -
- U-VALUE OF TOTAL ASSEMBLY: -
- R-VALUE OF INSULATION: -
- HORIZONTAL / VERTICAL REQUIREMENT: -
- SLAB HEATED: -

STRUCTURAL DESIGN SUMMARY

DESIGN LOADS

IMPORTANCE FACTORS
- SNOW (I_S): 1.1
- SEISMIC (I_E): 1.25

LIVE LOADS
- ROOF (PSF): 30
- MEZZANINE (PSF):
- FLOOR (PSF): 100
- **GROUND SNOW LOAD** (PSF): 10

WIND LOAD
- ULTIMATE WIND SPEED (MPH) (ASCE-7): 129
- EXPOSURE CATEGORY: B

SEISMIC DESIGN CATEGORY: B
PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS

RISK CATEGORY (TABLE 1604.5):

SPECTRAL RESPONSE ACCELERATION:
- S_S 0.124 %g
- S_1 0.062 %g

SITE CLASSIFICATION (ASCE 7): D
- DATA SOURCE: PRESUMPTIVE

BASIC STRUCTURAL SYSTEM: *Steel system not specifically detailed for seismic resistance

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? -

LATERAL DESIGN CONTROL: WIND

SOIL BEARING CAPACITIES:
- FIELD TEST (provide copy of test report): PSF
- PRESUMPTIVE BEARING CAPACITY: 2000PSF
- PILE SIZE, TYPE, AND CAPACITY: NA

MECHANICAL DESIGN SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

THERMAL ZONE
- WINTER DRY BULB: 21 DEGREES F
- SUMMER DRY BULB: 95 DEGREES F

INTERIOR DESIGN CONDITIONS
- WINTER DRY BULB: 72 DEGREES F
- SUMMER DRY BULB: 75 DEGREES F
- RELATIVE HUMIDITY: 50% MAXIMUM

BUILDING HEATING LOAD: N/A

BUILDING COOLING LOAD: N/A

MECHANICAL SPACING CONDITIONING SYSTEM

UNITARY
- DESCRIPTION OF UNIT:
- HEATING EFFICIENCY:
- COOLING EFFICIENCY:
- SIZE CATEGORY OF UNIT:

BOILER
- SIZE CATEGORY. IF OVERSIZED, STATE REASON:

CHILLER
- SIZE CATEGORY. IF OVERSIZED, STATE REASON:

LIST EQUIPMENT EFFICIENCIES:

ELECTRICAL DESIGN SUMMARY

ELECTRICAL SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE: NCECC PRESCRIPTIVE

LIGHTING SCHEDULE (each fixture type)

LAMP TYPE REQUIRED IN FIXTURE	**SEE LIGHTING FIXTURE SCHEDULE E 200**
NUMBER OF LAMPS IN THE FIXTURE	**SEE LIGHTING FIXTURE SCHEDULE E 200**
BALLAST TYPE USED IN THE FIXTURE	**SEE LIGHTING FIXTURE SCHEDULE E 200**
NUMBER OF BALLASTS IN THE FIXTURE	**SEE LIGHTING FIXTURE SCHEDULE E 200**
TOTAL WATTAGE PER FIXTURE	**SEE LIGHTING FIXTURE SCHEDULE E 200**
TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED (WHOLE BUILDING OR SPACE BY SPACE)	**N/A**
TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED	**N/A**

ADDITIONAL EFFICIENCY PACKAGE OPTIONS
(WHEN USING THE 2018 NCECC; NOT REQUIRED FOR ASHRAE 90.1)
- ☒ C406.2 MORE EFFICIENT MECHANICAL EQUIPMENT
- ☒ C406.3 REDUCED LIGHTING POWER DENSITY
- ☒ C406.4 ENHANCED DIGITAL LIGHTING CONTROLS
- ☒ C406.5 ON-SITE RENEWABLE ENERGY
- ☒ C406.6 DEDICATED OUTDOOR AIR SYSTEM
- ☒ C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING

EXISTING TO REMAIN UNCHANGED

EXISTING TO REMAIN UNCHANGED

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PROJECT INFORMATION

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SEALS

DAVIS KANE ARCHITECTS, P.A. — REGISTERED ARCHITECTURAL CORPORATION — 50304 — NORTH CAROLINA — RALEIGH, N.C.

JOHN C. STEVENSON — REGISTERED ARCHITECT — 6214 — NORTH CAROLINA — RALEIGH, N.C. — 8.29.23

DKA JOB NUMBER
2310

REVISIONS

PA:
PM: JHW
Drawn By: BG
Plot Date: 9/1/2023 10:22:10 AM

DATE ISSUED

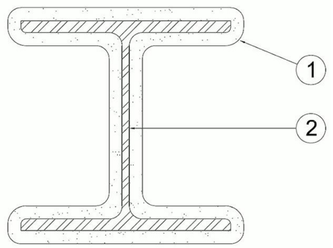
BID DOCUMENTS
08/29/2023

SHEET TITLE
CODE SUMMARY

G002

Design No. X722
October 26, 2017

Ratings — 1, 2 and 3 Hr.
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Steel Column** — Min size of column, a W6x16 with outside dimensions of 6-1/4 by 4 in. with a flange thickness of 3/8 in., a web thickness of 1/4 in. and a cross-sectional area of 4.72 sq in.

2. **Spray-Applied Fire Resistive Materials*** — See table below for appropriate thickness. Applied by mixing with water and spraying in one or more coats to steel surfaces which must be clean and free of dirt, loose scale and oil. Min avg and min ind density of 15/14 pcf respectively. Min avg and min ind density of 19/18 pcf respectively for Types 7GP and 7HD. For method of density determination, see Design Information Section, preceding these designs.

	Rating Hr	Min. ThKns, In.
3		2-1/2
2		1-11/16
1		13/16

The thicknesses contained in the table below are applicable when the Spray-Applied Fire Resistive Materials thickness applied to the columns flange tips is reduced to one half that shown in the table below:

	Rating Hr	Min. ThKns, In.
3		2-9/16
2		1-3/4
1		7/8

GCP KOREA INC — Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6s, Monokote Acoustic 1.

PYROK INC — Type LD.

SOUTHWEST FIREPROOFING PRODUCTS CO — Types 4, 5, 5EF, 5GP, 5MD, 7GP, 7HD, 8EF, 8GP, 8MD, 9EF, 9GP, 9MD.

GCP APPLIED TECHNOLOGIES INC — Types MK-6/HY, MK-6s, Monokote Acoustic 1, RG.:

***Indicated such products shall bear the UL or cUL Certification Mark for jusrisdictions employing the UL or cUL Certification (such as Canada), respectively.**

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PA:
PM: JHW
Drawn By: BG
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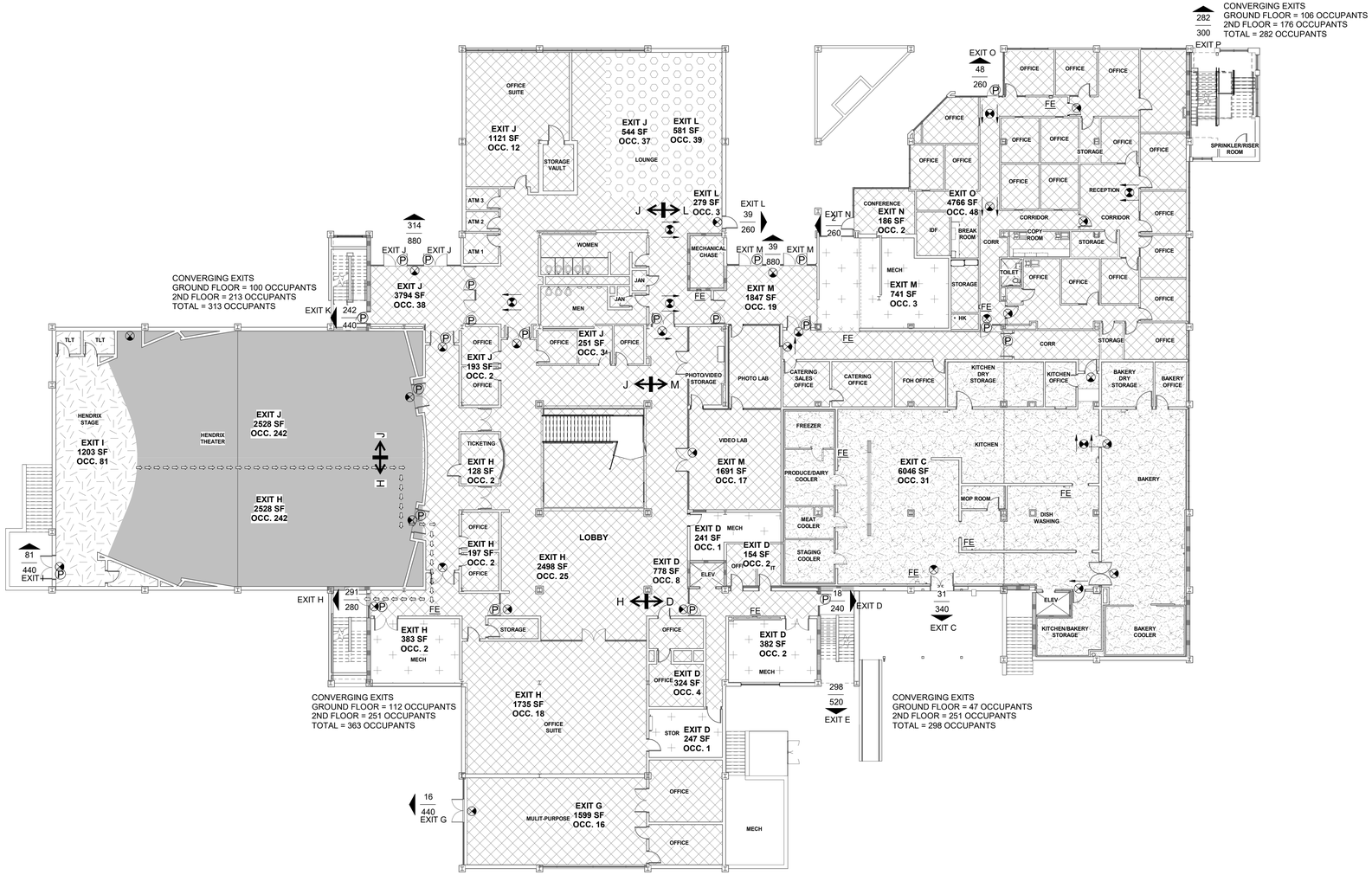
BID DOCUMENTS
08/29/2023

SHEET TITLE
UL DETAILS

G003



A1 1ST FLOOR LIFE SAFETY PLAN
1/16" = 1'-0"

OCCUPANCY KEY

- Accessory Storage Areas, Mechanical Equipment Room (300 SF/OCC. GROSS)
- Assembly Unconcentrated (tables & chairs) (15 SF/OCC. NET)
- Assembly W/ Fixed Seats
- Business Areas (100 SF/OCC. GROSS)
- Kitchens, Commercial (200 SF/OCC. GROSS)
- Stages and Performances (15 SF/OCC. NET)

RATED ASSEMBLIES LEGEND:

NOTES: RATINGS ARE NOT SHOWN THROUGH DOORS FOR CLARITY. SEE A000 FOR PARTITION TYPES. RATINGS ARE CONTINUOUS AROUND OPENINGS AND OPENINGS ARE TO BE PROTECTED IN ACCORDANCE WITH THE NC STATE BUILDING CODE. PROTECT ALL PENETRATIONS.

ALL RATED WALLS SHALL BE STENCILED WITH RATED WALL WARNING MESSAGE IN RED PAINT TO READ AS FOLLOWS: - HOUR RATED FIRE BARRIER. SEAL ALL PENETRATIONS" WITH APPLICABLE HOUR RATING INSERTED. HOUR RATING TO BE AS NOTED ON PLANS. MESSAGE TO BE 4" HIGH LETTERS, PLACED 12" ABOVE CEILING, SPACED AT 6'-0" O.C. ON BOTH SIDES OF WALL WHERE ACCESSIBLE.
SEE G-SHEETS FOR UL RATINGS AND ADDITIONAL INFORMATION.

- EXISTING 1-HR RATED FIRE BARRIER
- EXISTING 2-HR RATED FIRE BARRIER
- NEW 1-HR RATED FIRE BARRIER

LIFE SAFETY GENERAL NOTES:

1. REFER TO SHEET G001 FOR CODE SUMMARY .
2. REFER TO DOOR SCHEDULE FOR REQUIRED DOOR RATINGS.
3. REFER TO INTERIOR PARTITION TYPES AND FLOOR PLAN FOR ADDITIONAL PARTITION REQUIREMENTS INCLUDING WALL HEIGHT, UL DESIGN AND FIRE RATING.

LIFE SAFETY SYMBOL LEGEND

- EXIT X — 0 — 0 — DENOTES EXIT DIRECTION ARROW, TYP.
- INDICATES EXIT POPULATION
- INDICATES EXIT CAPACITY (POPULATION)
- DENOTES EXIT ACCESS
- A ⟷ B — LOCATION WHERE TRAVEL DISTANCE TO 2 EXITS IS EQUIDISTANT
- WORST-CASE TRAVEL DISTANCE
- WORST CASE COMMON PATH OF TRAVEL
- DEAD END CORRIDOR — DEAD END CORRIDOR (1020.4- NO GREATER THAN 50' IN SPRINKLERED BUSINESS AND STORAGE)
- F — INDICATES PULL STATION
- FE — INDICATES FIRE EXTINGUISHER
- H — INDICATES HOLD OPEN
- P — INDICATES PANIC HARDWARE
- Room name 101 — ROOM NAME, ROOM NUMBER
- EXIT A 150 SF OCC. 20 — EXIT, AREA, OCCUPANT CAPACITY
- EXIT LIGHT FIXTURE, EXIT DIRECTIONAL ARROW

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SHEET TITLE
LIFE SAFETY PLAN

G004

GENERAL SYMBOL LEGEND

COLUMN GRID
A — EXISTING COLUMN GRID
1 — NEW COLUMN GRID

ENLARGED DRAWING REFERENCE
1 / A101 — DRAWING NUMBER, SHEET NUMBER

BUILDING / WALL SECTION CUT REFERENCE
1 / A101 — DRAWING NUMBER, SHEET NUMBER

EXTERIOR ELEVATION REFERENCE
1 / A101 — DRAWING NUMBER, SHEET NUMBER

INTERIOR ELEVATION REFERENCE
1 / A1.1 — DRAWING NUMBER, SHEET NUMBER

ROOM TAG
Room name / 101 — ROOM NAME, ROOM NUMBER

CONTROL JOINT
CJ

ELEVATION DATUM REFERENCE
Name X'-X" — ELEVATION, DATUM REFERENCE
0'-0" — RELATIVE FINISH FLOOR ELEVATION

WALLS
EXISTING WALL OR PARTITION
NEW WALL OR PARTITION

PARTITION TYPE
A — *REFER TO INTERIOR PARTITION LEGEND

WINDOW TYPE
X

ALIGN FACES OF DESIGNATED SURFACES

DOOR / DOOR NUMBER
101 — DOOR NUMBER

REVISION REFERENCE
1 — REVISION NUMBER

NORTH ARROW
INDICATES TRUE NORTH DIRECTION

FURNITURE, FIXTURES, & EQUIPMENT KEY
01

KEY NOTE
01

REFLECTED CEILING PLAN SYMBOL LEGEND

CEILING TAG
9'-0" — CEILING HEIGHT ABOVE FINISH FLOOR

GYP BOARD CEILING
REFER TO PLAN FOR SUSPENSION TYPE

ACOUSTIC CEILING TILE: 2'x2'

DEMOLISHED ACOUSTIC CEILING TILE: 2'x2'

ACOUSTIC CEILING TILE: 2'x4'

DEMOLISHED ACOUSTIC CEILING TILE: 2'x4'

CONTROL JOINT
CJ

MECHANICAL RETURN REGISTER

MECHANICAL AIR SUPPLY DIFFUSER

MECHANICAL EXHAUST REGISTER

RECESSED LIGHT FIXTURE
2'x4' 2'x2'

CAN LIGHT FIXTURE
8"

PENDANT LIGHT FIXTURES
1'x4' 4"X4"

EXIT LIGHT FIXTURE
EXIT DIRECTIONAL ARROW

HORN STROBE
H

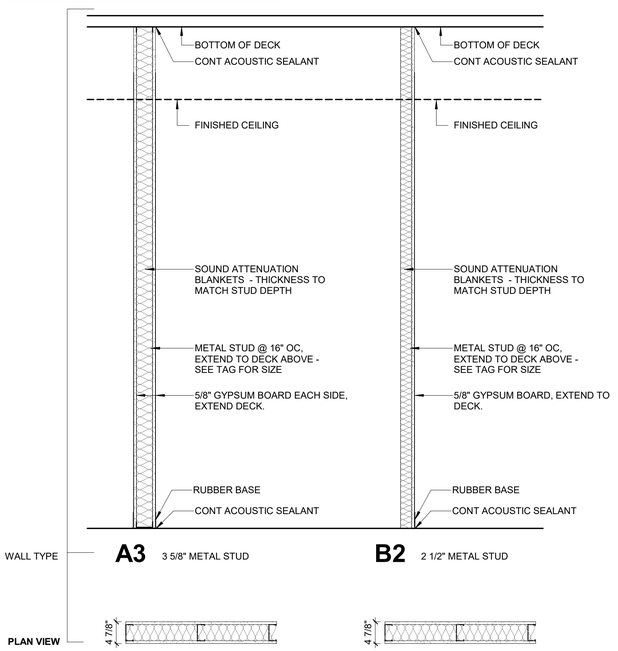
CEILING MOUNTED OCCUPANCY SENSOR
OS

CEILING MOUNTED SMOKE DETECTOR
SD

SELECTIVE DEMOLITION GENERAL NOTES:

1. - - - - - - - DASHED LINES INDICATE WALL, STRUCTURE, OR OTHER BUILDING COMPONENTS TO BE DEMOLISHED IN ENTIRETY INCLUDING CONCEALED CONSTRUCTION UON. SEE KEY NOTES AND PLAN NOTES FOR MORE SPECIFIC INFORMATION FOR INDIVIDUAL AREAS.
2. PLUMBING, ELECTRICAL, MECHANICAL, SPECIAL SYSTEMS AND OTHER BUILDING SYSTEM COMPONENTS NOTED ON PLAN TO BE DEMOLISHED ARE TO BE FULLY AND COMPLETELY DEMOLISHED AND REMOVED, UON. ALL EXPOSED AND RECESSED CONDUIT, PIPING, BOXES, PANELS, SWITCHGEAR, JUNCTIONS, FITTINGS, WIRES,PIPES,DUCTS, EQUIPMENT, ANCHORS, FASTENERS, ETC. SHALL BE DEMOLISHED. RECESSED SHALL MEAN COMPONENTS THAT ARE CONTAINED WITHIN A WALL, FLOOR OR CEILING SURFACE. PIPING FULLY CONCEALED WITHIN MASONRY WALLS OR CONCRETE MAY REMAIN IF STABLE AND SECURELY SUPPORTED BY BUILDING STRUCTURE.
3. THE GENERAL CONTRACTOR S RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS,FLOORS AND ROOF AS REQUIRED TO REMOVE EXISTING MATERIALS AND EQUIPMENT AND TO INSTALL ALL NEW WORK INCLUDING THAT OF PLUMBING, MECHANICAL AND ELECTRICAL SUB-CONTRACTORS. CONTRACTOR SHALL REFERENCE ALL DRAWINGS TO DETERMINE THE EXTENT OF CUTTING AND PATCHING. PATCHING, BACKFILL, REPAIRS, ETC. SHALL EQUAL OR EXCEED EXISTING CONDITIONS OR SURROUNDING WORK. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL RELATED WORK, COSTS AND EXTENT OF THE WORK.SELF-PERFORMED OR DELEGATED TO THE SUB-CONTRACTORS. SEE SPECIFICATION SECTION "EXECUTION" FOR ADDITIONAL REQUIREMENTS FOR ALL CONTRACTORS.
4. WHERE SELECTIVE DEMOLITION IS INDICATED IT IS THE INTENT THAT THE SELECTIVE DEMOLITION WORK WILL RESULT IN A BUILDING AREA FREE OF DEVICES, EQUIPMENT, MATERIALS AND ANY OTHER MISCELLANEOUS COMPONENTS NOT REUSED IN THE NEW CONSTRUCTION UNLESS OTHERWISE NOTED (UON). THIS INCLUDES FASTENERS, ANCHORS, HARDWARE, PROTRUDING NAILS AND SCREWS, EMBEDDED ANCHORS, BLOCKING, SLEEVES, ETC. THE DEMOLITION SHALL INCLUDE ALL ITEMS TO A CLEAN SLAB, WALL OR CEILING. COORDINATE DEMOLITION EXTENTS WITH REQUIREMENTS FOR NEW WORK.
5. DEMOLISH EXISTING MASONRY AS FOLLOWS:
   A. DEMOLISH FULL HEIGHT TO UNDERSIDE OF STRUCTURE ABOVE IF NO HEIGHT GIVEN.
   B. PROVIDE SHORING AT ALL NEW CUTS, OPENINGS OR DEMOLITION OF EXISTING CONSTRUCTION.
6. EXCEPT WHERE INDICATED TO REMAIN DEMOLISH ALL APPLIED FLOOR FINISHES INCLUDING VCT, CARPET, VINYL, EDGE STRIPS, NAIL STRIPS, THRESHOLDS, BASE, GLUE AND ADHESIVES, ETC. TO A CLEAN STRUCTURAL SLAB OR WALL.
7. CONTRACTOR TO CONFIRM THAT NEW OPENINGS, PENETRATIONS, DEMOLITION CUTS, ETC. IN EXISTING ELEVATED SLAB ARE LOCATED BETWEEN EXISTING JOISTS, AND / OR BEAMS. REPORT ANY CONFLICTS TO ARCHITECT PRIOR TO PROCEEDING WITH DEMOLITION. ADJUST LOCATIONS OF DEMOLITION AS AGREED UPON BY ARCHITECT.
8. ALL EXISTING CONSTRUCTION AND ITEMS TO REMAIN ARE TO BE PROTECTED THROUGHOUT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES INCURRED DURING CONSTRUCTION ACTIVITIES INCLUDING FROM STATIONS,WETTING, PHYSICAL DAMAGE, MARRING ETC. CONTRACTOR TO REPAIR ANY SURFACES DAMAGED DUE TO DEMOLITION TO MATCH PREVIOUS OR ADJACENT CONDITION.
9. SCRAPE ALL LOOSE PAINT AND COATINGS FROM SURFACES DESIGNATED TO RECEIVE NEW PAINT OR FINISHES, RESULTING SURFACE MUST BE DRY, NON-FLAKING AND SECURELY ADHERED TO UNDERLYING SUBSTRATE.
10. SEE RENOVATION FLOOR PLANS FOR LAYOUT DIMENSIONS FOR NEW OPENINGS NOT SHOWN ON DEMO PLANS.
11. REMOVE ALL DOORS (UON). DISPOSE OF ALL DOOR HARDWARE AFTER GETTING OWNER FIRST RIGHT OF REFUSAL. DEMOLISH DOOR FRAMES, SIDELIGHT FRAMES AND GLAZING (UON). DEMOLITION TO INCLUDE BLOCKING, NAILS, TRANSOMS, ANCHORS, ETC. TO CLEAN MASONRY OR FRAMED OPENINGS. DEMOLISH HARDWARE UON.
12. CUT AND DEMOLISH EXISTING SLAB ON GRADE, WALLS, FLOORS, ETC. FOR INSTALLATION OF NEW P, M, E, FP, ETC. SEE PATCHING NOTES ELSEWHERE. SEE COORDINATION DRAWING REQUIREMENTS FOR LOCATION OF OPENINGS IN EXISTING WALLS AND SLABS.
13. TAKE REQUIRED PRECAUTIONS TO PREVENT DAMAGE TO UNDERSLAB DRAINAGE SYSTEM. RESTORE ANY DISTURBED PIPE OR STONE BACKFILL TO ORIGINAL CONDITION.
14. WALL DESIGNATED DO BE DEMOLISHED WITH 'M' KEY ARE KNOWN MASONRY WALLS. NOT ALL MASONRY WALLS MAY BE MARKED.
15. DEMOLISH ALL INTERIOR CEILINGS (UON) INCLUDING LAY-IN, SPLINE AND HARD CEILING SYSTEMS. DEMOLISH IN ENTIRETY, INCLUDING BREAKERS, HANGERS,WIRES, MOLDINGS ETC UON. PROTECT EXISTING BULKHEADS THAT ARE TO REMAIN. PROTECT EXISTING MECHANICAL, ELECTRICAL, FIRE ALARM DEVICES AND FIXTURES TO REMAIN. SEE MECHANICAL AND ELECTRICAL DEMOLITION AND RENOVATION PLANS FOR ADDITIONAL REQUIREMENTS.
16. DEMOLISH ALL INTERIOR CEILINGS (UON) INCLUDING LAY-IN, SPLINE AND HARD CEILING SYSTEMS. DEMOLISH IN ENTIRETY, INCLUDING BREAKERS, HANGERS,WIRES, MOLDINGS ETC UON. PROTECT EXISTING BULKHEADS THAT ARE TO REMAIN. PROTECT EXISTING MECHANICAL, ELECTRICAL, FIRE ALARM DEVICES AND FIXTURES TO REMAIN. SEE MECHANICAL AND ELECTRICAL DEMOLITION AND RENOVATION PLANS FOR ADDITIONAL REQUIREMENTS.
17. DEMOLISH ALL FLOOR COVERINGS AND RUBBER OR WOOD BASE, UON. TO INCLUDE REMOVAL OF ADHESIVES. TYPE OF SOME FLOOR COVERING VISIBLE IN EACH SPACE IS INDICATED BY THE DEMOLITION KEY NOTES. CONTRACTOR RESPONSIBLE FOR VERIFYING FLOOR COVERING AND DEMOLISHING FLOOR COVERINGS UNDERNEATH VISIBLE COVERINGS DOWN TO THE CONCRETE SLAB. PROVIDE CLEAN, SMOOTH SUBFLOORING FOR NEW WORK.
18. DEMOLISH ALL FLOOR BUMPERS IN THEIR ENTIRETY. SEE HARDWARE SCHEDULE FOR ADDITIONAL REQUIREMENTS.
19. REMOVE ALL INTERIOR SIGNAGE AND BRACKETS INCLUDING ROOM IDENTIFICATION SIGNAGE, DEPARTMENTAL SIGNAGE AND WAYFINDING SIGNAGE. DISPOSE AFTER GIVING OWNER FIRST RIGHT OF REFUSAL.
20. REMOVE ALL CASEWORK, SHELVING, COUNTERTOPS, MIRRORS, PROJECTION SCREENS, MARKERBOARDS, TACKSTRIPS, DISPLAY CASES, TV BRACKETS AND ALL OTHER WALL AND FLOOR MOUNTED EQUIPMENT/ FURNISHING UON. DISPOSE OFF AFTER OFFERINGS OWNER FIRST RIGHT OF REFUSAL. DEMOLITION TO INCLUDE SUPPORTS, FASTENERS, ADHESIVES AND ANCHORS. SOME LOCATIONS ARE INDICATED BY DEMOLITION KEY NOTES. CONTRACTOR TO VERIFY QUANTITIES AND LOCATIONS.
21. FURNITURE AND LOOSE EQUIPMENT TO BE REMOVED BY OWNER FROM THE BUILDING PRIOR TO THE COMMENCEMENT OF THE WORK. ANY REMAINING ITEMS ARE TO BE DEMOLISHED BY GENERAL CONTRACTOR, UNO. CONTRACTOR TO COORDINATE WITH OWNER.
22. ANY ITEMS INDICATED TO BE DEMOLISHED AFTER GIVING OWNER FIRST RIGHT OF REFUSAL SHALL BE DEMOLISHED ONLY AFTER RECEIVED NOTIFICATION FROM OWNER ITEMS SHOULD BE DISCARDED. ITEMS THAT THE OWNER WANTS POSSESSION OF SHALL BE CAREFULLY SALVAGED AND TURNED OVER TO THE OWNER.
23. DEMOLISH WALL BRACING WHERE WALLS ARE TO BE DEMOLISHED.
24. EXISTING BUILDING STRUCTURE TO REMAIN, UON. PROTECT DURING THE DEMOLITION AND NEW WORK PROCESS. REPAIR ANY SURFACES DAMAGED DURING DEMOLITION AND NEW WORK.
25. GC SHALL SURVEY ALL AREAS SCHEDULED FOR UNDER-SLAB CUTTING WITH PACHONMETER TESTING, IDENTIFYING PIPING, CONDUIT OR ITEMS IMBEDDED AND IMMEDIATELY BELOW CONCRETE PRIOR TO PERFORMING SLAB DEMOLITION. GC TO TAKE NECESSARY PRECAUTIONS TO PRESERVER EMBEDDED ITEMS SCHEDULED TO REMAIN IN SERVICE DURING CONSTRUCTION. GC TO CUT AND REMOVE SLAB SCHEDULED FOR DEMOLITION AND REPLACE PER THE CONTRACT DOCUMENTS. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
26. CUTTING, BACKFILL, REPAIRS ETC. SHALL EQUAL OR EXCEED EXISTING CONDITIONS OF SURROUNDING WORK. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL RELATED WORK, COSTS AND EXTENT OF THE WORK SELF PERFORMED OR DELEGATED TO THEIR SUB-CONTRACTORS.
27. COORDINATION DRAWINGS ARE REQUIRED TO BE PROVIDED BY THE GENERAL CONTRACTOR.
    ROOM NAMES AND NUMBERS ARE SHOWN ON THE DEMOLITION PLAN FOR DEMOLITION REFERENCE ONLY. NEW ROOM NAMES AND NUMBER ARE ASSIGNED ON THE RENOVATION PLAN.
28. SEE SPECIFICATION SECTION "SELECTIVE DEMOLITION" AND OTHER DRAWINGS IN THIS SET FOR ADDITIONAL REQUIREMENTS FOR ALL CONTRACTORS.
29. SEE DEMOLITION FLOOR PLAN KEY NOTES AND NOTES ON PLANS FOR ADDITIONAL REQUIREMENTS.

INTERIOR PARTITION LEGEND



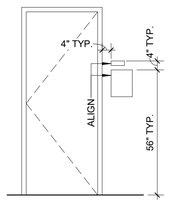
RENOVATION PLAN GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ARCHITECTURAL DRAWINGS.
2. DIMENSIONS TO NEW CONSTRUCTION ARE TO STRUCTURAL CENTERLINE, FACE OF CONCRETE OR MASONRY CONSTRUCTION, FACE OF MTL STUD OR TO FACE OF EXISTING SURFACE UNLESS NOTED OTHERWISE.
3. FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO STARTING WORK AND NOTIFY ARCHITECT IMMEDIATELY IF DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS.
4. DO NOT SCALE DRAWINGS. REFER DIMENSION QUESTIONS TO ARCHITECT FOR INTERPRETATION.
5. AT GYPSUM STUDWALLS HINGE SIDE DOOR JAMBS TO BE 4" FROM FACE OF ADJACENT PERPENDICULAR WALL, TYP., UON AS MEASURED FROM INSIDE FACE OF JAMB. AT CMU WALLS HINGE SIDE DOOR JAMBS TO BE 6" FROM FACE OF ADJACENT PERPENDICULAR WALLS TYP. UON, AS MEASURED FROM THE INSIDE FACE OF JAMBS.
6. COORDINATE EQUIPMENT WORK WITH MANUFACTURERS AND SUPPLIERS TO INSURE PROPER ROUGH-IN CLEARANCES FOR INSTALLATION, USE AND MAINTENANCE.
7. PROVIDE CONTROL JOINTS (CJ) IN GYPSUM BOARD WALL CONSTRUCTION AS INDICATED. VERIFY FINAL CONTROL JOINT LOCATIONS WHETHER OR NOT INDICATED ON THE DRAWINGS WITH ARCHITECT PRIOR TO STARTING WORK. VERIFY MOUNTING HEIGHTS OF ACCESSORIES, EQUIPMENT, DOOR HARDWARE, CASEWORK, ETC., AND PROVIDE SOLID BLOCKING BEHIND ITEMS REQUIRING ANCHORAGE. PROVIDE FIRE TREATED 2" X 6" WOOD BLOCKING BETWEEN FRAMING MEMBERS AS REQUIRED TO SUPPORT WEIGHT AND USE OF ITEMS TO BE SUPPORTED. WHERE MOUNTING HEIGHTS ARE NOT INDICATED, MOUNT ITEMS IN ACCORDANCE WITH RECOGNIZED INDUSTRY STANDARDS.
8. COORDINATE LOCATIONS WITH MANUFACTURER OR SUPPLIER AND REFER MOUNTING HEIGHT QUESTIONS TO ARCHITECT FOR INTERPRETATION.
9. PROVIDE SEALANT BETWEEN DISSIMILAR MATERIALS SUCH AS GYPSUM BOARD AND MASONRY, MASONRY AND CONCRETE, COUNTERTOPS AND WALLS, ETC.
10. REPAIR AND PATCH SPRAYED FIRE-RESISTIVE AND FIRESTOP MATERIALS WHERE DAMAGED DUE TO INSTALLATION OF NEW MATERIALS TO RESTORE SPECIFIED FIRE RATING. SEE ALLOWANCES.
11. REFER TO A000 FOR PARTITION CONSTRUCTION TYPE.
12. ST DENOTES SIGN TYPE, EG. ST-2A DENOTES SIGN TYPE 2A. SEE PLANS AND DOOR SCHEDULE FOR SIGN LOCATIONS.
13. CONTRACTOR TO PATCH AND REPAIR ANY EXISTING AREA, SURFACE OR COMPONENT DAMAGED OR OTHERWISE ALTERED BY THE INSTALLATION OF THE NEW WORK. PATCHES AND REPAIRS TO MATCH EXISTING IN KIND, MATERIAL, TEXTURE, COLOR, ETC. UON.
14. NEW CONSTRUCTION IS DESIGNATED ON DRAWINGS AS BEING NEW BY MEANS OF A HATCH, SHADING, PATTERN, HEAVY LINES, OR INFILL WITH 'SHADING'. EXISTING CONSTRUCTION IS DESIGNATED WITH LIGHTER LINES AND AREAS AND COMPONENTS ARE NOT FILLED OR SHADED. NOTE THAT HATCHES, FILLS AND PATTERNS ARE USED ON DRAWINGS TO DESIGNATE OTHER CONDITIONS AS WELL. SEE LEGENDS.
15. REPAIRS AND PATCHES REQUIRING PAINTED FINISH WILL REQUIRE PAINT TO BE APPLIED AT ENTIRE CONTIGUOUS WALL OR CEILING AREA EXTENDING TO CORNERS, STEPS OR OTHER CHANGE IN SURFACE PLANE.
16. FOR TYPICAL REVEAL, CONTROL, AND TRIM NOTES AT GWB REFER TO SHEET I100, UON.

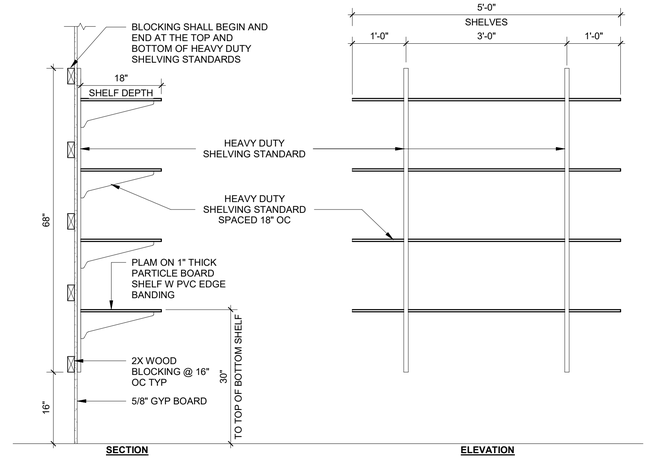
HAZARDOUS MATERIALS GENERAL NOTES:

1. CERTAIN EXISTING MATERIALS THROUGHOUT THE CAMPUS TESTED POSITIVE FOR HAZARDOUS CONTENT. REFER TO HAZARDOUS MATERIALS REPORTS IN THE PROJECT MANUAL. CONTRACTOR IS REQUIRED TO COORDINATE ABATEMENT OF LEAD PAINT AND ASBESTOS CONTAINING MATERIALS PRIOR TO COMMENCEMENT OF DEMOLITION WORK IN EACH PHASE.
2. IN THE EVENT HAZARDOUS MATERIALS NOT NOTED IN THE HAZARDOUS MATERIALS REPORT ARE ENCOUNTERED, CONTRACTOR IS TO STOP WORK IMMEDIATELY AND CONTACT THE OWNER'S REPRESENTATIVE.

MOUNTING HEIGHTS:



TYPICAL ROOM SIGN



A7 STORAGE ADJUSTABLE SHELVING
3/4" = 1'-0"

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DKA JOB NUMBER
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Plot Date: 9/1/2023 10:21:16 AM

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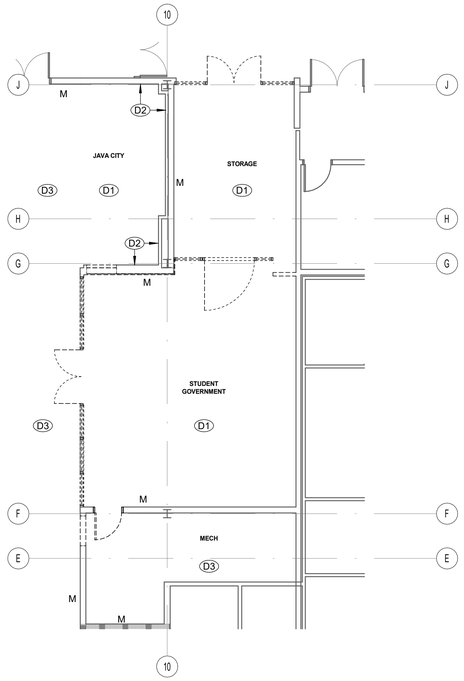
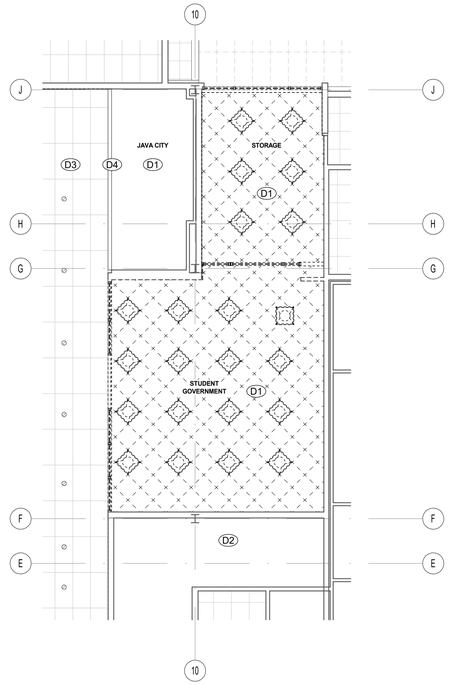
08/29/2023

SHEET TITLE
GENERAL NOTES AND PARTITIONS

A000



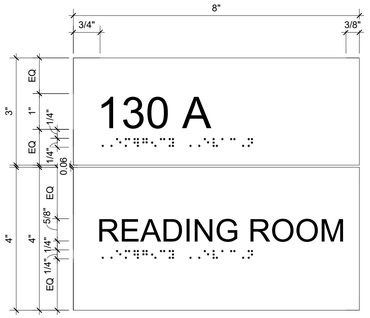
E1 1ST FLOOR PHOTO/VIDEO STUDIO DEMO PLAN
1/8" = 1'-0"



E3 1ST FLOOR PHOTO/VIDEO STUDIO DEMOLITION RCP
1/8" = 1'-0"

DOOR SCHEDULE

DOOR NUMBER	TYPE		WIDTH	DOOR HEIGHT	DOOR THK.	DOOR MAT.	DOOR FINISH	FRAME TYPE	FRAME MAT.	FRAME FINISH	HDWR	FIRE RATING	SIGN TYPE	NOTES
1ST FLOOR														
100	A	(2)	3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	2		A	DOOR STAIN TO MATCH EXIST
101	A		3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	1		A	DOOR STAIN TO MATCH EXIST
102.1	A	(2)	3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	2		A	DOOR STAIN TO MATCH EXIST
102.2	A		3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	3		-	DOOR STAIN TO MATCH EXIST
102.3	A		3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	3		-	DOOR STAIN TO MATCH EXIST
103	A		3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN	I	HM	PAINT	1		A	DOOR STAIN TO MATCH EXIST



E5 SIGN TYPE A
6" = 1'-0"

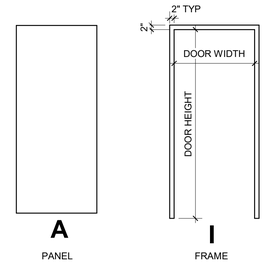
HARDWARE SCHEDULE

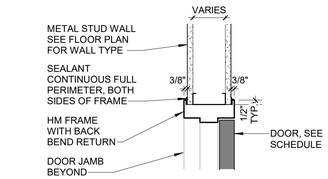
HARDWARE SET #1 - SINGLE ENTRY DOORS
3 HINGES
1 LOCKSET
1 KICKPLATE
3 SILENCERS
1 WALL STOP

HARDWARE SET #2 - DOUBLE ENTRY DOORS
2 CONTINUOUS HINGE
2 LOCKSET
2 KICKPLATES
6 SILENCERS
1 MULLION
2 CLOSERS

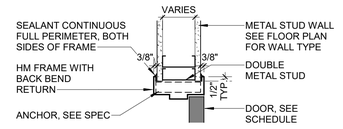
HARDWARE SET #3 - INTERIOR DOORS
3 HINGES
1 LOCKSET
3 SILENCERS
1 WALL STOP

DOOR PANEL AND FRAME TYPES:

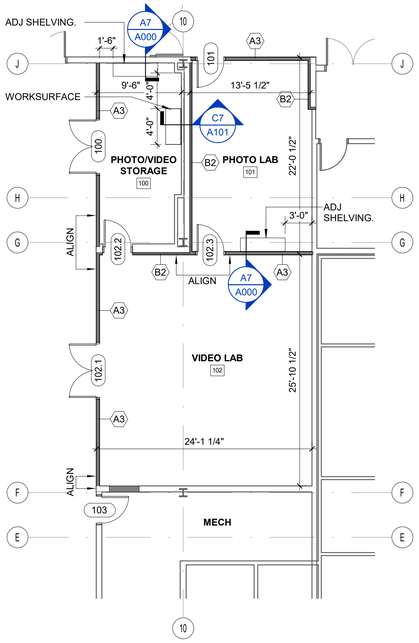




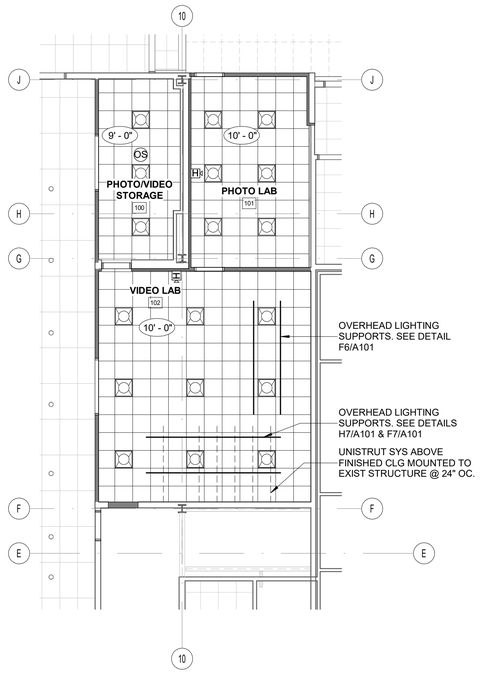
C5 INT HM DOOR HEAD AT GWB
1 1/2" = 1'-0"



C7 INT HM DOOR JAMB AT GWB
1 1/2" = 1'-0"



A1 1ST FLOOR PHOTO/VIDEO LAB RENOVATION PLAN
1/8" = 1'-0"



A3 1ST FLOOR PHOTO/VIDEO LAB RENOVATION RCP
1/8" = 1'-0"

DEMOLITION PLAN KEY NOTES:

NOTE: KEY NOTES SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THE DRAWINGS. NOT ALL OF THE KEY NOTES ARE APPLICABLE TO THIS PLAN. SEE PLANS FOR KEYED ITEM LOCATIONS. SEE SHEET A-0.0 FOR SELECTIVE DEMOLITION GENERAL NOTES.

(D1) DEMOLISH EXISTING FLOOR FINISH AND BASE. DEMO TO INCLUDE ALL ADHESIVESTO PROVIDE CLEAN AND SMOOTH SUBFLOOR FOR NEW WORK.

(D2) DEMOLISH APPLIED WALL FINISHES TO CLEAN CONCRETE WALL, CMU, OR GWB.

(D3) PROTECT EXISTING FLOOR FINISH TO REMAIN. GC TO REPLACE ANY FLOORING DAMAGED DURING DEMOLITION.

RATED ASSEMBLIES LEGEND:

NOTES: RATINGS ARE NOT SHOWN THROUGH DOORS FOR CLARITY. SEE A000 FOR PARTITION TYPES. RATINGS ARE CONTINUOUS AROUND OPENINGS AND OPENINGS ARE TO BE PROTECTED IN ACCORDANCE WITH THE NC STATE BUILDING CODE. PROTECT ALL PENETRATIONS.

ALL RATED WALLS SHALL BE STENCILED WITH RATED WALL WARNING MESSAGE IN RED PAINT TO READ AS FOLLOWS: - HOUR RATED FIRE BARRIER. SEAL ALL PENETRATIONS" WITH APPLICABLE HOUR RATING INSERTED. HOUR RATING TO BE AS NOTED ON PLANS. MESSAGE TO BE 4" HIGH LETTERS, PLACED 12" ABOVE CEILING, SPACED AT 6'-0" O.C. ON BOTH SIDES OF WALL WHERE ACCESSIBLE.
SEE G-SHEETS FOR UL RATINGS AND ADDITIONAL INFORMATION.

EXISTING 1-HR RATED FIRE BARRIER
EXISTING 2-HR RATED FIRE BARRIER
NEW 1-HR RATED FIRE BARRIER

DEMOLITION RCP KEY NOTES:

NOTE: KEY NOTES SUPPLEMENT INFORMATION FOUND ELSEWHERE IN THE DRAWINGS. NOT ALL OF THE KEY NOTES ARE APPLICABLE TO THIS PLAN. SEE PLANS FOR KEYED ITEM LOCATIONS. SEE SHEET D001 FOR SELECTIVE DEMOLITION GENERAL NOTES.

(D1) DEMOLISH ACT, GRID SYSTEM, LIGHT FIXTURES AND DEVICES IN THEIR ENTIRETY.THIS INCLUDES FASTENERS, ANCHORS, AND MOLDINGS.

(D2) NO EXISTING FINISHED CEILING SYSTEM. PROTECT EXISTING EXPOSED STRUCTURE, DECK AND DUCTS.

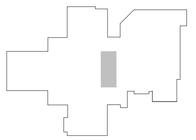
(D3) PROTECT EXISTING CEILING AND LIGHT FIXTURES TO REMAIN, UON.

(D4) PROTECT EXISTING BULKHEAD TO REMAIN.

DOOR & FRAME GENERAL NOTES:

1. SEE DOOR FRAME DETAILS ON THIS SHEET FOR FRAME DEPTHS.
2. PAINT ALL HM FRAMES. PAINT ALL HM DOORS.

KEY PLAN



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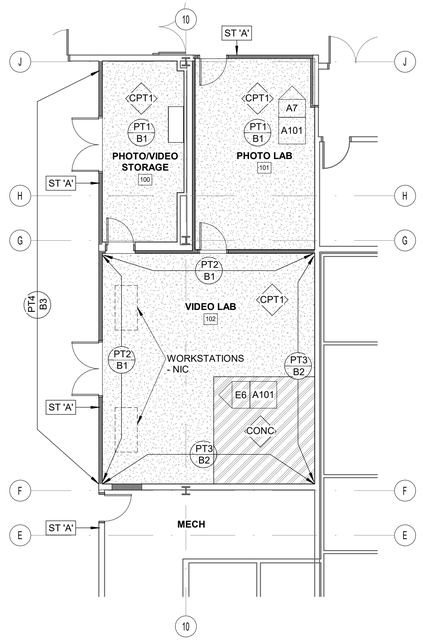
SHEET TITLE
1ST FLOOR RENOVATION AND DEMOLITION PLANS

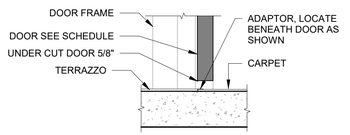
A100

INTERIOR FINISHES ROOM SCHEDULE

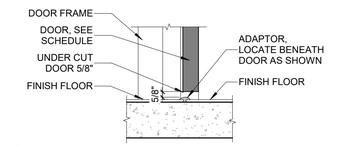
#	NAME	FLOOR FINISH	BASE FINISH	WALL MTRL	WALL FINISH	CEILING MTRL	CEILING FINISH
1ST FLOOR							
100	PHOTO/VIDEO STORAGE	CPT	RB	GWB	PAINT	ACT	PAINT
101	PHOTO LAB	CPT	RB	GWB	PAINT	ACT	PAINT
102	VIDEO LAB	CPT/CONC	RB	GWB	PAINT	ACT	PAINT



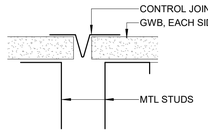
E1 FINISH PLAN - PHOTO/VIDEO LAB
1/8" = 1'-0"



F3 INT DOOR SILL - TZ TO CPT
1 1/2" = 1'-0"



E3 INT DOOR SILL - CPT TO CPT
1 1/2" = 1'-0"



E4 GWB "CONTROL JOINT" TYP
6" = 1'-0"

FURNITURE, FIXTURES, AND EQUIPMENT LEGEND

01	FLAT PANEL TV SCREEN - NIC

FINISHES PLAN NOTES:

1. INSTALL BLOCKING AT ALL TOILET ROOM ACCESSORIES, MARKERBOARDS, TACKBOARDS, BULLETIN BOARD CABINETS, PROJECTION SCREEN, AND OTHER FF&E ITEMS AS REQUIRED BY MANUFACTURER INSTALLATION REQUIREMENTS. SEE TYPICAL WOOD BLOCKING DETAILS ON THIS SHEET.
2. SEE A000 FOR GENERAL PLAN & PARTITION NOTES.
3. TYPICAL ASSEMBLY & MOUNTING HEIGHTS SEE SHEET A000.

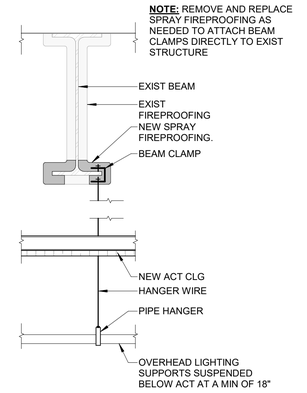
FINISHES SYMBOL LEGEND

FINISHES

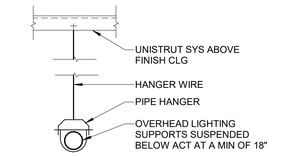
- CPT — FLOORING
- PT / B — WALL UON / BASE UON
- PT — ACCENT PAINT
- WC — WALLCOVERING
- ST 'B' — SIGN TYPE

FINISHES KEY:

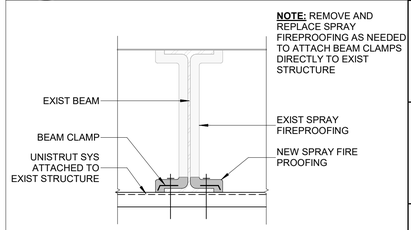
- CARPET
- CONCRETE



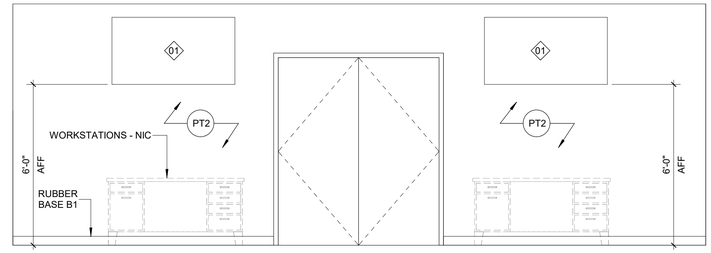
F6 UNISTRUT BEAM CLAMP AND PIP HANGER
1 1/2" = 1'-0"



H7 PIPE HANGER DETAIL
1 1/2" = 1'-0"



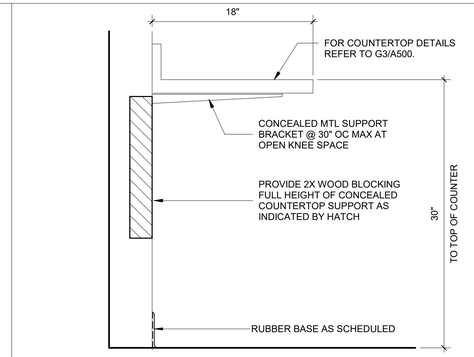
F7 UNISTRUT BEAM CLAMP
1 1/2" = 1'-0"



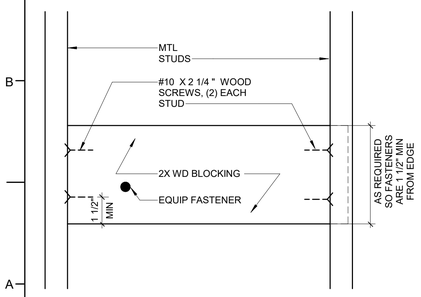
E6 VIDEO LAB INTERIOR ELEVATION
3/8" = 1'-0"

INTERIOR FINISHES LEGEND

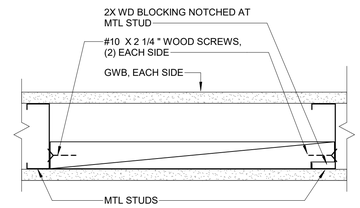
NUMBER CATEGORY	NUMBER	B.O.D. MANUFACTURER	PATTERN/COLOR	NOTES	EQ MANUFACTURERS
ACT	ACT1	ARMSTONG CEILING	ULTIMA 1911, 24"X24"	FIELD, U.O.N. COLOR OF PANELS TO BE BLACK.	USG CEILINGS, CERTAINTEED, ROCKFON
BASE	B1	TARKETT/JOHNSONITE	BLACK 0040	THERMOPLASTIC RUBBER WALL BASE; TYPE TP	FLEXCO, ROPPE, PATCRAFT
BASE	B2	TARKETT/JOHNSONITE	WHITE	THERMOPLASTIC RUBBER WALL BASE; TYPE TP	FLEXCO, ROPPE, PATCRAFT
BASE	B3	TARKETT/JOHNSONITE	COLOR AND SIZE TO MATCH EXIST	TO MATCH EXIST RUBBER BASE	FLEXCO, ROPPE, PATCRAFT
CARPET	CPT1	INTERFACE	LUMINESCENT: NIGHT LIGHTS -TITANIUM IRIS	MODULAR 10x40 CARPET PLANKS	MANNINGTON, PATCRAFT, BENTLEY
CONCRETE	CONC	-	SEALED CONCRETE	-	-
PAINT	PT1	SHERWIN WILLIAMS	7073 NETWORK GREY	PHOTO LAB AND STORAGE WALLS	BENJAMIN MOORE, PPG PAINTS, GLIDDEN
PAINT	PT2	SHERWIN WILLIAMS	SW 6991 BLACK MAGIC	VIDEO LAB BLACK WALLS	BENJAMIN MOORE, PPG PAINTS, GLIDDEN
PAINT	PT3	SHERWIN WILLIAMS	SW 9541 WHITE SNOW	VIDEO LAB WHITE WALLS	BENJAMIN MOORE, PPG PAINTS, GLIDDEN
PAINT	PT4	SHERWIN WILLIAMS		CORRIDOR WALL COLOR	MATCH EXISTING
SOLID SURFACE	SS			STORAGE WORKING SURFACE	WILSONART, PIONITE, OCTOPUS PRODUCTS



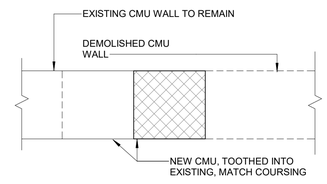
C7 WALL MOUNTED COUNTERTOP
1 1/2" = 1'-0"



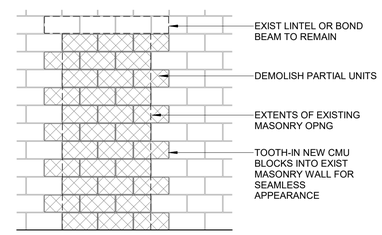
A1 WOOD "BLOCKING ELEVATION" IN GWB WALL, TYP
3" = 1'-0"



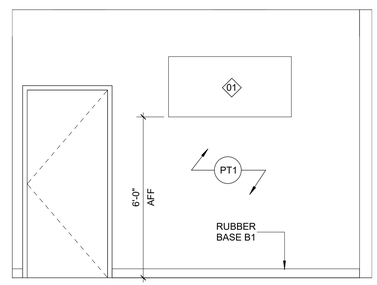
A2 WOOD "BLOCKING PLAN" IN GWB WALL, TYP
3" = 1'-0"



A4 MASONRY REPAIR PLAN DETAIL AT NEW CUT IN EXISTING WALL
1 1/2" = 1'-0"



A5 MASONRY INFILL ELEVATION AT EXISTING OPENING
3/8" = 1'-0"



A7 PHOTO LAB INTERIOR ELEVATION
3/8" = 1'-0"

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SHEET TITLE
FINISH PLAN AND DETAILS

A101

FIRE PROTECTION ABBREVIATIONS

#	POUNDS; NUMBER
ACV	ALARM CHECK VALVE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISTICTION
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECTURAL; ARCHITECT
AUTO	AUTOMATIC
BAS	BUILDING AUTOMATION SYSTEM
BOP	BOTTOM OF PIPE
CAP	CAPACITY
CLG	CEILING
COL	COLUMN
CONC	CONCRETE
CTR	CENTER
CUFT	CUBIC FOOT; CUBIC FEET
CUYD	CUBIC YARD
CV	CHECK VALVE
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DI	DUCTILE IRON
DIA	DIAMETER
DIV	DIVISION
DN	DOWN
DPV	DRY PIPE VALVE
DWG	DRAWING
EA	EACH
ELEC	ELECTRICAL
ELEV	ELEVATION
EQUIP	EQUIPMENT
EXIST	EXISTING
FCV	FLOOR CONTROL VALVE
FDC	FIRE DEPARTMENT CONNECTION
FDV	FIRE DEPARTMENT VALVE
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHVC	FIRE HOSE VALVE CABINET
FL	FLOOR
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FM	FACTORY MUTUAL
FP	FIRE PROTECTION OR FIRE PUMP
FPC	FIRE PUMP CONTROLLER
FS	FLOW SWITCH
FT	FOOT; FEET
FTG	FOOTING
GAL	GALLONS
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HORIZ	HORIZONTAL
HP	HORSE POWER
HT	HEIGHT
ID	INSIDE DIAMETER
IN	INCH
JP	JOCKEY PUMP
JPC	JOCKEY PUMP CONTROLLER
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MFG	MANUFACTURING
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
MTD	MOUNTED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OSY	OUTSIDE SCREW AND YOKE
PIV	POST INDICATOR VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RCV	RISER CHECK VALVE
REINF	REINFORCING
REV	REVISION
RM	ROOM
RPDA	REDUCED PRESSURE DETECTOR ASSEMBLY
RPM	REVOLUTIONS PER MINUTE
SCH	SCHEDULE
SECT	SECTION
SF	SQUARE FEET
SP	STANDPIPE
SPCV	SUCTION PRESSURE CONTROL VALVE
SPEC	SPECIFICATION
SPRK	SPRINKLER SPRINKLER
SYM	SYMBOL OR SYMMETRICAL
TOP	TOP OF PIPE
TOS	TOP OF STEEL
TS	TAMPER SWITCH
TYP	TYPICAL
UF	UNDER FLOOR
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
WMA	WATER MOTOR ALARM
Ø	ROUND; DIAMETER; PHASE

FIRE PROTECTION PIPING SYMBOLS

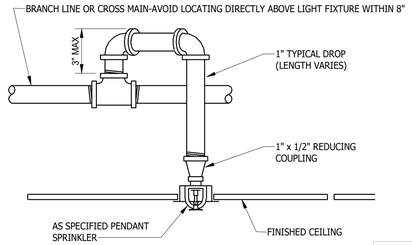
- #" SYSTEM / #" SYSTEM — PIPE SIZE AND SYSTEM IDENTIFICATION (SEE ABBREVIATIONS FOR SYSTEM TYPES)
- EXISTING PENDENT SPRINKLER HEAD TO REMAIN
- NEW HEAD LOCATION
- ALARM CHECK OR PREACTION VALVE
- DRY PIPE VALVE
- SIAMESE FIRE DEPT. CONNECTION
- STORZ FIRE DEPT. CONNECTION
- FIRE HYDRANT LOCATION
- TYPICAL HANGER LOCATION
- HYDRAULIC CALCULATION NODE
- ROADWAY VALVE AND BOX
- TEST HEADER
- THRUST BLOCK
- VALVE (REFER TO SPECIFICATIONS)
- GATE VALVE
- BALL VALVE
- CHECK VALVE
- OSY GATE VALVE W/ TAMPER SWITCH
- BUTTERFLY VALVE W/ TAMPER SWITCH
- FLOW SWITCH
- FCA — SPRINKLER ZONE CONTROL VALVE ASSEMBLY
- WATER MOTOR ALARM
- EXISTING PIPING
- PIPING TO BE DEMOLISHED
- NEW PIPING

ELECTRICAL SYMBOLS

VFD	VARIABLE FREQUENCY DRIVE
	MOTOR STARTER
	COMBINATION MOTOR STARTER/DISCONNECT
	FUSED DISCONNECT
NF	NON-FUSED DISCONNECT
	DISCONNECT, EXISTING OR BY OTHERS
PNL	POWER PANEL, EXISTING OR BY OTHERS
S	TOGGLE SWITCH
S_M	MOTOR RATED TOGGLE SWITCH

GENERAL SYMBOLS

- PLAN OR DETAIL NUMBER / SHEET NUMBER
- ELEVATION LETTER / SHOWN ON SHEET NUMBER
- SECTION NUMBER / SHOWN ON SHEET NUMBER
- DIMENSION LINE
- DETAIL NUMBER WITH SHEET NO.
- A — COLUMN NUMBER OR LETTER
- 1 — DRAWING REVISION NUMBER
- KEYED NOTE NUMBER
- CONNECT TO EXISTING
- REMOVE TO THIS POINT
- NORTH ARROW



2 FP001 **TYPICAL SPRINKLER DROP DETAIL**
SCALE: NTS

SPRINKLER DESIGN DATA

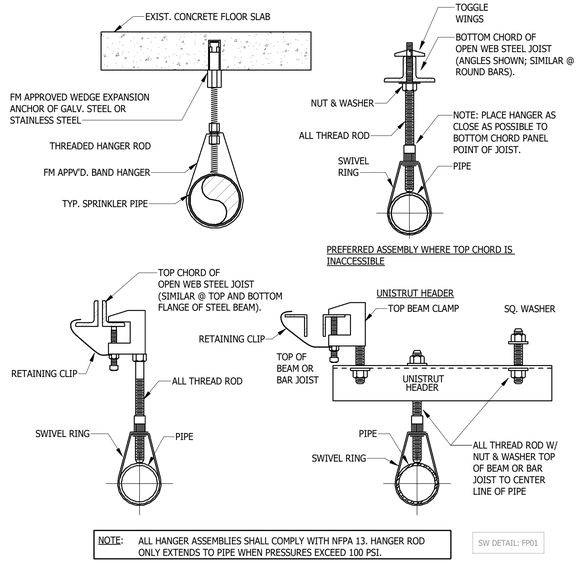
Project Name: ECU MENDENHALL COMMUNICATION SUITE		System:	WET
Project Street Address: 500 9TH STREET, GREENVILLE, NC, 27858		Sys. Sq. Ft.:	N/A
Suite: N/A	Floor#: 1ST FLOOR	Ceiling Height:	SEE ARCH PLANS
Designed By: SALAS O'BRIEN	Phone: 919-832-8118	Total Bldg. Hgt.:	N/A
Occupancy: Business, A-3	Hazard: .		

DESIGN SUMMARY

	Zone #1	Zone #	Zone #	Zone #	Zone #
Design Method	HYDRAULIC	-	-	-	-
Design Area #	1	-	-	-	-
Location	VIDEO AND PHOTO LAB	-	-	-	-
Type of System	WET	-	-	-	-
Hazard Class	ORD GRP I	-	-	-	-
Criteria From	2013, NFPA 13	-	-	-	-
Design Area	1,125 SQ FT	-	-	-	-
Protection Area	MAX 130 SQ FT	-	-	-	-
Sprinkler Spacing	MAX 15'	-	-	-	-
Density	0.15 GPM/SQ FT	-	-	-	-
K-factor	5.6	-	-	-	-
Hose Allowance	250 GPM	-	-	-	-
G.P.M. Req'd	TBD BY DIV 21 CONTR	-	-	-	-
P.S.I. Req'd	TBD BY DIV 21 CONTR	-	-	-	-

EXISTING FIRE PUMP TEST INFORMATION

Tested by	JMP	Date/Time	11/15/2022
Rated Flow (GPM)	750 GPM	Rated Pressure (PSI)	100 PSI
Horsepower	60 HP	Discharge Pressure at Churn (PSI)	120 PSI
Discharge Pressure at 100% Rated Cap (PSI)	102 PSI	Flow Rate at 100% Rated Cap	750 GPM
Discharge Pressure at 150% Rated Cap (PSI)	70 PSI	Flow Rate at 150% Rated Cap	1,033 GPM



NOTE: ALL HANGER ASSEMBLIES SHALL COMPLY WITH NFPA 13. HANGER ROD ONLY EXTENDS TO PIPE WHEN PRESSURES EXCEED 100 PSI.

SW DETAIL: FP01

1 FP001 **TYPICAL FIRE PROTECTION HANGER**
SCALE: NTS

FIRE PROTECTION DRAWING LIST

FIRE PROTECTION GENERAL NOTES

1. COORDINATE WORK WITH OTHER TRADES PRIOR TO PURCHASE AND INSTALLATION OF ANY PIPING, DUCTWORK OR EQUIPMENT. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
2. REFER TO THE ARCHITECTURAL PLANS FOR DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
3. ALL PIPING LAYOUTS AND LOCATIONS SHOWN ARE DIAGRAMMATIC AND DO NOT INDICATE ALL FITTINGS REQUIRED TO COMPLETE WORK. COORDINATE THE PIPING LAYOUT WITH ALL CONTRACTORS PRIOR TO INSTALLATION, INCLUDING CONDUITS AND CABLE TRAYS. PROVIDE ALL PIPING OFFSETS REQUIRED FOR THE COMPLETE INSTALLATION OF THE SYSTEM WHETHER OR NOT THE OFFSETS ARE INDICATED ON THE PLANS. INSTALL PIPING HIGH ENOUGH TO AVOID LIGHTS, CONDUIT AND MISCELLANEOUS PIPING. DO NOT BLOCK ACCESS TO DEVICES.
4. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS AND ARCHITECTURAL DETAILS FOR EXACT LOCATION OF ALL CEILING AND SIDEWALL AIR DISTRIBUTION AND DEVICES.
5. INSTALL ALL EQUIPMENT WITH THE MANUFACTURER'S RECOMMENDATION AND CODE REQUIRED CLEARANCES. INSURE ALL ITEMS FURNISHED WILL FIT IN THE SPACE AVAILABLE. MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS AND FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO PURCHASE AND INSTALLATION.
6. COORDINATE LOCATIONS AND ELEVATIONS OF ALL EXPOSED ITEMS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS.
7. FURNISH 24"x24" ACCESS DOORS (UNLESS OTHERWISE INDICATED) FOR ANY CONCEALED ITEMS, SUCH AS DRAINS, VALVES, ETC. COORDINATE EXACT LOCATIONS WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
8. THE ENTIRE FIRE PROTECTION SYSTEM SHALL BE INSTALLED IN A MANNER THAT IS COMPLIANT WITH ALL APPLICABLE CITY, COUNTY, AND NORTH CAROLINA STATE BUILDING CODE REQUIREMENTS, LOCAL BUILDING INSPECTOR REQUIREMENTS, ALL APPLICABLE NFPA STANDARDS, AS WELL AS THE STANDARDS OF THE UNDERWRITER WHERE REQUIRED. THE HAZARD CLASSIFICATION SHALL BE PER PLANS AND SPECIFICATIONS.
9. VERIFY LATEST ARCHITECTURAL ROOM, WALL, AND CEILING LAYOUTS PRIOR TO DESIGN OF SYSTEM.
10. SUBMIT DESIGN INSTALLATION DRAWINGS AND HYDRAULIC CALCULATIONS PRIOR TO THE START OF CONSTRUCTION TO THE OWNER'S UNDERWRITER WHERE APPLICABLE, THE LOCAL FIRE MARSHAL, AND ANY OTHER AUTHORITIES HAVING JURISDICTION FOR REVIEW AND APPROVAL. DESIGN INSTALLATION DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE STAMPED OR SEALED BY A NICET III DESIGNER OR A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA.
11. IDENTIFYING SIGNAGE, TAGS, AND LABELS CONFORMING TO THE FIRE PROTECTION INDUSTRY STANDARDS SHALL BE SECURELY AFFIXED TO THE SYSTEM.
12. SPRINKLERS INSTALLED IN AREAS WITHOUT CEILINGS, OR CEILING TILES, SHALL BE OF THE UPRIGHT TYPE.
13. SPRINKLER CONTRACTOR SHALL INSTALL SPRINKLER HEADS WITHIN THE CENTER OF ANY CEILING TILE BEING PENETRATED.
14. INSTALL A DRAIN AT ALL RISER LOCATIONS AS WELL AS ALL LOW POINTS IN THE SYSTEM. AN INSPECTORS TEST DRAIN SHALL BE INSTALLED ON THE SYSTEM. SPRINKLER PIPING SHALL SLOPE DOWN TO DRAIN LOCATIONS.

NOTE:
THESE FIRE PROTECTION DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE EXACT SPRINKLER HEAD COUNT AND LOCATION SHALL BE DETERMINED BY THE FIRE PROTECTION CONTRACTOR. THE FIRE PROTECTION MAINS INDICATED ARE FOR REFERENCE GUIDANCE ONLY AND ARE THE ENGINEERS SUGGESTED ROUTING BUT THE FINAL ROUTING SHALL BE DETERMINED BY THE CONTRACTOR. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE WORKING DRAWINGS IN ACCORDANCE WITH NFPA 13 FOR REVIEW AND APPROVAL BY THE ENGINEER AND APPLICABLE AHJ.

DAVIS KANE ARCHITECTS, PA
503 OBERLIN ROAD | SUITE 300
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919.833.3737
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PROJECT INFORMATION
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salasobrien.com
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MENDENHALL COMMUNICATIONS SUITE
EAST CAROLINA UNIVERSITY
500 9TH STREET, GREENVILLE, NC 27858

SEALS

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 050567 ENGINEER JUSTIN M. SARTIN
8/29/2023

DKA JOB NUMBER
2023-02457

REVISIONS

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Drawn By: JMS
Plot Date: 8/29/2023 2:48:42 PM

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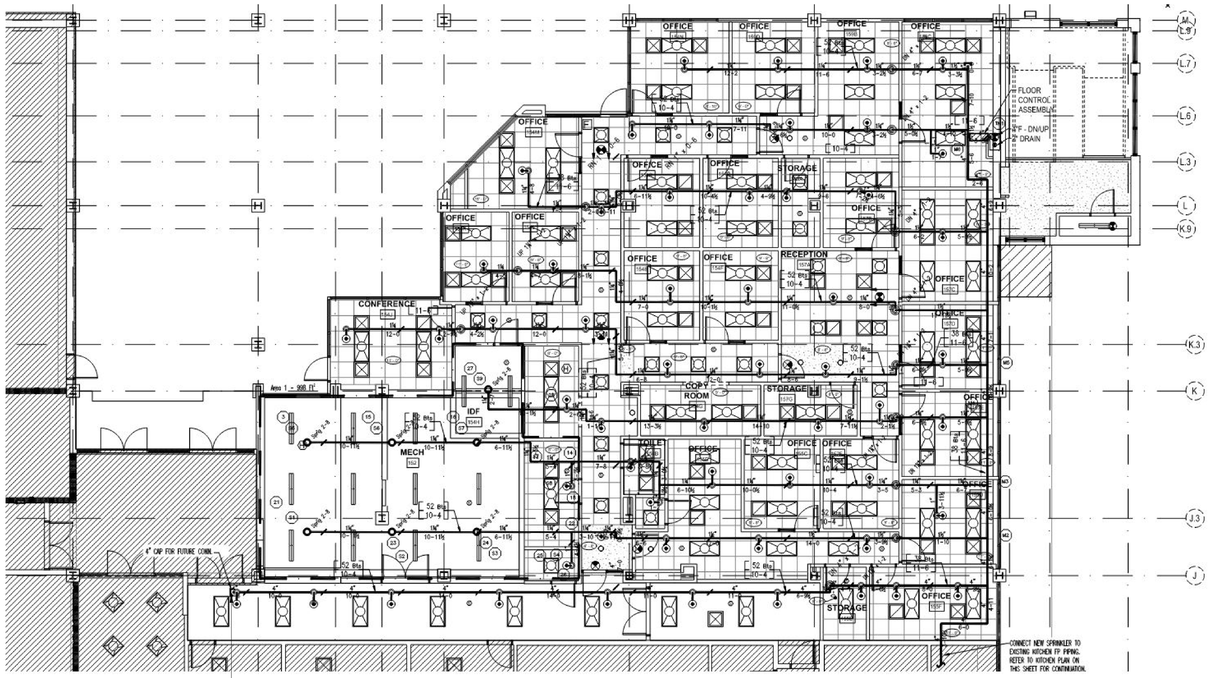
CONSTRUCTION DOCUMENTS
08/29/2023

SHEET TITLE
STANDARDS, SYMBOLS & ABBREVIATIONS

FP001



1ST FLOOR - FIRE PROTECITON

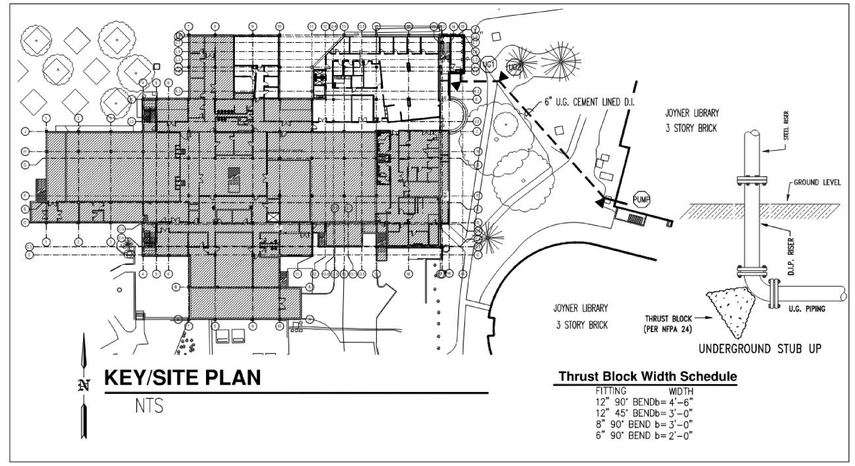
1/8" = 1'-0"

POINT OF CONNECTION

VIEW HAS BEEN PROVIDED FOR HYDRAULIC PURPOSES ONLY

HYDRAULIC - SYSTEM

This building is protected by a Hydraulically

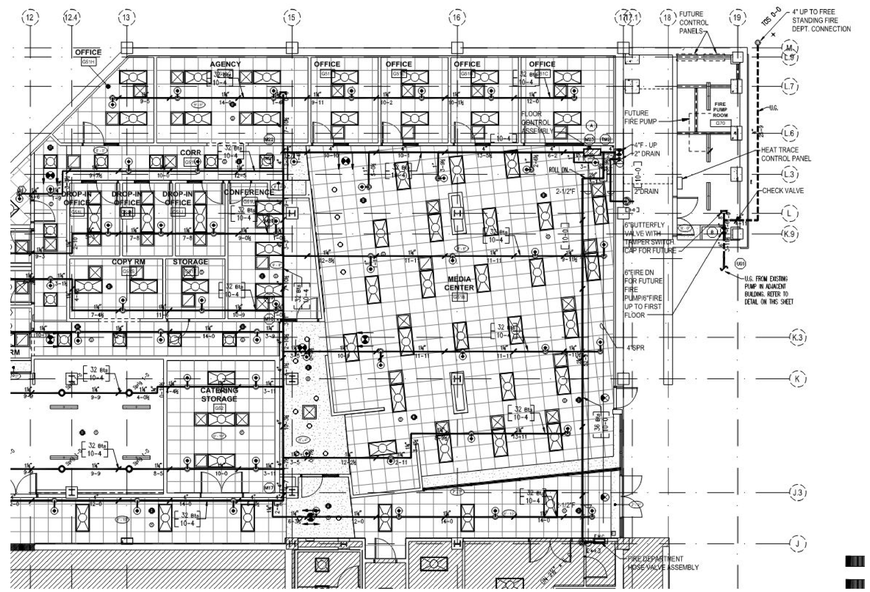


KEY/SITE PLAN

NTS

Thrust Block Width Schedule

FITTING	WIDTH
12" 90° BEND	b= 4'-6"
12" 45° BEND	b= 3'-0"
8" 90° BEND	b= 3'-0"
6" 90° BEND	b= 2'-0"



GROUND FLOOR - FIRE PROTECITON

1/8" = 1'-0"

VIEW HAS BEEN PROVIDED FOR HYDRAULIC PURPOSES ONLY

KEY PLAN:

DAVIS KANE ARCHITECTS, PA
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EAST CAROLINA UNIVERSITY

500 9TH STREET, GREENVILLE, NC 27858

SEALS

NORTH CAROLINA PROFESSIONAL SEAL 050567 ENGINEER JUSTIN M. SARFIN

8/29/2023

DKA JOB NUMBER

2023-02457

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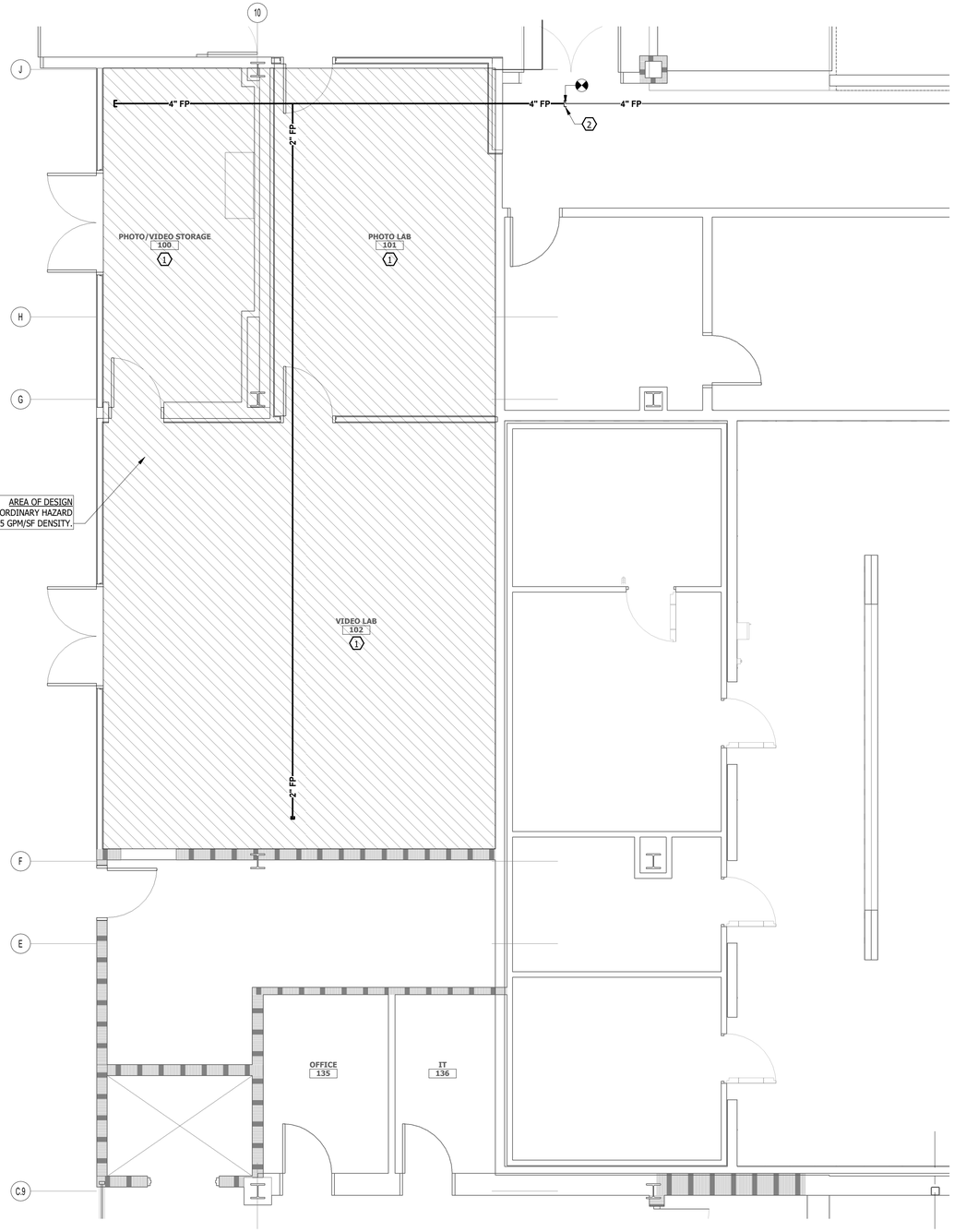
08/29/2023

SHEET TITLE

EXISTING SPRINKLER PLANS FOR HYDRA CALCS

FP002

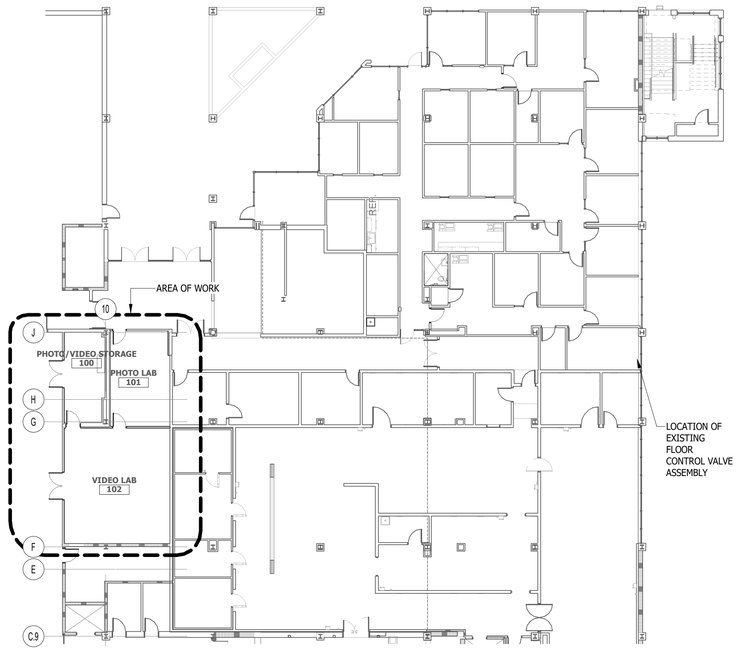


2 FP100 **1ST FLOOR PHOTO & VIDEO LAB - FIRE PROTECTION**
SCALE: 1/4" = 1'-0"
4' 0 4' 8'

KEY NOTES TO FP100

1 ORDINARY GROUP I HAZARD CLASSIFICATION.

2 CAPPED SPRINKLER MAIN FOR FUTURE CONNECTION.



1 FP100 **ENLARGED KEY PLAN**
SCALE: 1/16" = 1'-0"
8' 0 8' 16' 24' 32' 40'

PARTITION SCHEDULE
1 HOUR RATED BARRIER

KEY PLAN:

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SEALS

NORTH CAROLINA PROFESSIONAL SEAL 050567 ENGINEER JUSTIN M. SARTIN
Justin Sartin
8/29/2023

DKA JOB NUMBER
2023-02457

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SHEET TITLE
1ST FLOOR VIDEO & PHOTO LAB - FIRE PROTECTION PLAN

FP100

HVAC ABBREVIATIONS

Ø	ROUND; DIAMETER; PHASE
#	POUNDS; NUMBER
A	COMPRESSED AIR
ACFM	ACTUAL CUBIC FEET PER MINUTE
ACH	AIR CHANGES PER HOUR
AD	ACCESS DOOR
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ARCH	ARCHITECTURAL; ARCHITECT
AS	AIR SEPERATOR
AUTO	AUTOMATIC
AV	ACID VENT
AW	ACID WASTE
BAS	BUILDING AUTOMATION SYSTEM
BBD	BOILER BLOWDOWN
BFF	BELOW FINISHED FLOOR
BFW	BOILER FEED WATER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BP	BACKFLOW PREVENTER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CELSIUS; COMMON PORT
CD	CONDENSATE DRAIN
CDWP	CONDENSER WATER PUMP
CDWR	CONDENSER WATER RETURN
CDWS	CONDENSER WATER SUPPLY
CF	CHEMICAL FEED
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CLG	CEILING
CO	CLEAN OUT; CARBON MONOXIDE
CO2	CARBON DIOXIDE
CONC	CONCRETE
COP	COEFFICIENT OF PERFORMANCE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CT	COOLING TOWER
CTR	CENTER
CU	COPPER; CONDENSING UNIT
CUFT	CUBIC FOOT; CUBIC FEET
CUH	CABINET UNIT HEATER
CUYD	CUBIC YARD
CW	COLD WATER
DB	DRY BULB
DD	DUCT MOUNTED SMOKE DETECTOR
DDC	DIRECT DIGITAL CONTROLS
DI	DUCTILE IRON
DIA	DIAMETER
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DTWR	DUAL TEMPERATURE WATER RETURN
DTWS	DUAL TEMPERATURE WATER SUPPLY
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EFF	EFFICIENCY
EL	ELEVATION
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ESS	EMERGENCY STOP SWITCH
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST; EXHAUST AIR; EXHAUST FAN
EXIST	EXISTING
EXP	EXPANSION
F	FAHRENHEIT
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FFE	FINISHED FLOOR ELEVATION
FL	FLOOR
FLEX	FLEXIBLE
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FSD	FIRE/SMOKE DAMPER
FT	FEET; FOOT
G	NATURAL GAS
GA	GAUGE
GAL	GALLON
GC	GENERAL CONTRACTOR
GEX	GREASE EXHAUST AIR
GPH	GALLON PER HOUR
GPM	GALLON PER MINUTE
HD	HUB DRAIN; HEAT DETECTOR
HEX	HAZARDOUS EXHAUST
HOA	HANDS-OFF-AUTOMATIC
HORIZ	HORIZONTAL
HP	HIGH PRESSURE
HPR	HIGH PRESSURE CONDENSATE RETURN
HPS	HIGH PRESSURE STEAM
HSTAT	HUMIDISTAT
HT	HEIGHT

HVAC ABBREVIATIONS

HTG	HEATING
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HX	HEAT EXCHANGER
ID	INDIRECT DRAIN; INSIDE DIAMETER
IN	INCH
INV	INVERT
ISP	INTERNAL STATIC PRESSURE
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LB/HR	POUNDS PER HOUR
LP	LOW PRESSURE
LPG	LIQUID PETROLEUM GAS
LPR	LOW PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE CONDENSATE SUPPLY
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MP	MEDIUM PRESSURE
MRT	MOTOR RATED TOGGLE SWITCH
MS	MOTOR STARTER
MS/D	COMBINATION MOTOR STARTER AND DISCONNECT
MTD	MOUNTED
MUA	MAKE UP AIR
MVD	MANUAL VOLUME DAMPER
N	NITROGEN
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NITROUS OXIDE; NUMBER
N.O.	NORMALLY OPEN
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
O	OXYGEN
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMTER
P	PUMP
PC	PLUMBING CONTRACTOR
PCHWP	PRIMARY CHILLED WATER PUMP
PD	PRESSURE DROP
PHWP	PRIMARY HOT WATER PUMP
PI	PRESSURE INDEPENDENT
PICV	PRESSURE INDEPENDENT CONTROL VALVE
PR	PUMPED CONDENSATE RETURN
PNL	PANEL
PPH	POUNDS PER HOUR
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	POINT
PCV	POLYVINYL CHLORIDE
QTY	QUANTITY
RA	RETURN AIR
RD	ROUND
RECIRC	RECIRCULATING
REINF	REINFORCING
REL	RELIEF; RELIEF AIR
REV	REVISION
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RS	REFRIGERANT SUCTION
SA	SUPPLY AIR
SCFM	STANDARD CUBIC FEET PER MINUTE
SCHWP	SECONDARY CHILLED WATER PUMP
SD	SMOKE DAMPER
SECT	SECTION
SF	SUPPLY FAN; SQUARE FEET
SHWP	SECONDARY HOT WATER PUMP
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SPL	STATIC PRESSURE LOSS
SS	STAINLESS STEEL
STM	STEAM
TA	TRANSFER AIR
TAB	TEST AND BALANCE
TOD	TOP OF DUCT
TOP	TOP OF PIPE
TOS	TOP OF STEEL
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TU	TERMINAL UNIT
TYP	TYPICAL
UH	UNIT HEATER
UL	UNDERWRITERS LABORITORIES INC.
V	VENT
VA	VENTILATION AIR
VAC	VACCUUM (SUCTION)
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
W/	WITH
WB	WET BULB
WG	WATER GAUGE
W/O	WITHOUT
XT	EXPANSION TANK

PIPING SYMBOLS

- PIPE SIZE AND SYSTEM IDENTIFICATION (SEE ABBREVIATIONS FOR SYSTEM TYPES)
- VALVE (REFER TO SPECIFICATIONS)
- BALANCING VALVE (REFER TO SPECIFICATIONS)
- CALIBRATED BALANCING VALVE
- BUTTERFLY VALVE
- GATE VALVE
- GLOBE VALVE
- CHECK VALVE
- PLUG VALVE
- BALL VALVE
- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- PRESSURE REDUCING VALVE
- PRESSURE RELIEF VALVE
- GAS COCK
- Y-TYPE STRAINER
- BASKET STRAINER
- PIPE TURNING UP
- PIPE TURNING DOWN
- PIPE CONNECTION AT BOTTOM OF MAIN
- PIPE CAP
- PIPE UNION
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- PIPE ALIGNMENT GUIDE
- PIPE ANCHOR
- FLEXIBLE PIPE CONNECTION
- PRESSURE GAUGE
- THERMOMETER
- STEAM TRAP
- DIRECTION OF FLOW IN PIPE
- SLOPE PIPE IN DIRECTION OF ARROW
- PUMP
- PETES PLUG (P & T PORT)
- BACKFLOW PREVENTER
- EXISTING PIPING
- NEW PIPING
- PIPING TO BE DEMOLISHED

DUCTWORK SYMBOLS

- SUPPLY, VENTILATION, OUTSIDE AIR DUCT SECTION
- RETURN AIR DUCT SECTION
- EXHAUST OR RELIEF AIR DUCT SECTION
- RECTANGULAR DUCT DIMENSIONS (IN PLAN WIDTH x HEIGHT INCHES) — 24x24
- FLAT OVAL DUCT DIMENSIONS — 24/12
- ROUND DUCT DIMENSIONS — 24Ø
- EXISTING DUCT
- DUCT TO BE DEMOLISHED
- NEW DUCT
- SLOPE DUCT IN DIRECTION OF ARROW — #/1'-0"
- BELL MOUTH TAP FOR MEDIUM PRESSURE
- CONICAL TAP WITH BALANCING DAMPER WITH LOCKING QUADRANT OPERATOR FOR LOW PRESSURE TAKEOFFS
- 45° TAP WITH BALANCING DAMPER WITH LOCKING QUADRANT OPERATOR
- SUPPLY DIFFUSER
- RETURN GRILLE
- EXHAUST GRILLE
- MITERED ELBOW
- RADIUS ELBOW
- FLEXIBLE DUCT
- VOLUME DAMPER WITH MANUAL OPERATOR AND LOCKING QUADRANT
- DUCT MOUNTED MOTORIZED DAMPER — D
- DUCT MOUNTED STEAM HUMIDIFIER — H
- DUCT MOUNTED SMOKE DETECTOR — SD
- FIRE DAMPER, DAMPER TO MATCH RATING — FD
- SMOKE DAMPER, DAMPER TO MATCH RATING — SD
- COMBINATION FIRE/SMOKE DAMPER, DAMPER TO MATCH RATING — FSD
- CEILING RADIATION DAMPER, DAMPER TO MATCH RATING — FR
- AIR DISTRIBUTION SYMBOL, LETTER(S) DENOTES TYPE, NUMBER INDICATES CFM — A 100
- THERMOSTAT OR ROOM SENSOR — T
- HUMIDISTAT OR ROOM SENSOR — H
- DIRECT DIGITAL CONTROLS CABINET — DDC
- EXISTING THERMOSTAT OR ROOM SENSOR — T

ELECTRICAL SYMBOLS

- VFD — VARIABLE FREQUENCY DRIVE
- MOTOR STARTER
- COMBINATION MOTOR STARTER/DISCONNECT
- FUSED DISCONNECT
- NF — NON-FUSED DISCONNECT
- DISCONNECT, EXISTING OR BY OTHERS
- PNL — POWER PANEL, EXISTING OR BY OTHERS
- S — TOGGLE SWITCH
- S_M — MOTOR RATED TOGGLE SWITCH

GENERAL SYMBOLS

- PLAN OR DETAIL NUMBER / SHEET NUMBER
- ELEVATION LETTER / SHOWN ON SHEET NUMBER
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- DIMENSION LINE
- DETAIL NUMBER WITH SHEET NO.
- A — COLUMN NUMBER OR LETTER
- 1 — DRAWING REVISION NUMBER
- KEYED NOTE NUMBER
- CONNECT TO EXISTING
- REMOVE TO THIS POINT
- NORTH ARROW

HVAC SPECIFICATIONS

TESTING AND BALANCING:

TAB WORK SHALL BE COMPLETED BY AN INDEPENDENT BALANCING CONTRACTOR CERTIFIED BY THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB).

GENERAL: AIR HANDLING AND DISTRIBUTION SYSTEMS, INCLUDING SUPPLY, RETURN, VENTILATION, AND EXHAUST AIRFLOWS SHALL BE BALANCED AND ADJUSTED IN ACCORDANCE WITH CHAPTER 10 OF ASHRAE STANDARD 111 AND SECTION 7.2.2 OF ASHRAE STANDARD 62.1. MAXIMUM AIR QUANTITIES AT EACH OUTLET OR INLET SHAL NOT VARY MORE THAN -5% TO +10% FROM THOSE INDICATED ON THE DRAWINGS.

FOUR COPIES OF THE DRAFT TEST AND BALANCE REPORTS SHALL BE PROVIDED TO THE A/E BEFORE THE FINAL INSPECTION. THE REPORTS SHALL COMPLY WITH REPORTING PROCEDURES DEFINED IN CHAPTER 13. ASHRAE STANDARD 111 AND AS HEREINAFTER SPECIFIED.

DRAFT REPORTS: UPON COMPLETION OF TAB PROCEDURES, PREPARE AND SUBMIT DRAFT REPORTS FOR REVIEW BY THE A/E. DRAFT REPORTS MAY BE HAND-WRITTEN, BUT MUST BE COMPLETE, FACTUAL, AND LEGIBLE. ORGANIZE AND FORMAT DRAFT REPORTS AS HEREINAFTER SPECIFIED.

FINAL REPORTS: AFTER REVIEW AND VERIFICATION BY THE FIELD CHECK BY THE A/E OF THE DRAFT REPORT, SUBMIT FINAL REPORTS, ORGANIZED AND FORMATTED AS HEREINAFTER SPECIFIED.

REPORTS FORMAT: BIND REPORT FORMS COMPLETE WITH SCHEMATIC SYSTEMS DIAGRAMS AND/OR PLANS AND OTHER REFERENCED DATA IN REINFORCED. VINLY, THREE-RNG BINDERS.

DUCT CLEANING:

GENERAL: MECHANICALLY CLEAN DUCT SYSTEMS SPECIFIED TO REMOVE ALL VISIBLE CONTAMINANTS SO THAT THE SYSTEMS ARE CAPABLE OF PASSING THE HVAC SYSTEM CLEANLINESS TESTS DEFINED BY NADCA ACR 2006.

SOURCE-REMOVAL CLEANING METHODS:

HVAC DUCTWORK SHALL BE CLEANED USING SOURCE-REMOVAL MECHANICAL CLEANING METHODS DESIGNED TO EXTRACT CONTAMINANTS FROM WITHIN THE HVAC SYSTEM AND TO SAFELY REMOVE THESE CONTAMINANTS FROM THE FACILITY. NO CLEANING METHOD, OR COMBINATION OF METHODS, SHALL BE USED THAT COULD POTENTIALLY DAMAGE COMPONENTS OF THE HVAC SYSTEM OR NEGATIVELY ALTER THE INTEGRITY OF THE SYSTEM.

USE CONTINUOUSLY OPERATING VACUUM-COLLECTION DEVICES TO KEEP EACH SECTION BEING CLEANED UNDER NEGATIVE PRESSURE.

CLEANING METHODS THAT REQUIRE MECHANICAL AGITATION DEVICES TO DISLODGE DEBRIS THAT IS ADHERED TO INTERIOR SURFACES OF HVAC SYSTEM COMPONENTS SHALL BE EQUIPPED TO SAFELY REMOVE THESE DEVICES. CLEANING METHODS SHALL NOT DAMAGE THE INTEGRITY OF HVAC SYSTEM COMPONENTS OR DAMAGE POROUS SURFACE MATERIALS SUCH AS DUCT AND PLENUM LINERS.

CLEANING INSULATION:

EXPOSED INSULATION ELEMENTS PRESENT IN EQUIPMENT OR DUCTWORK SHALL BE THOROUGHLY CLEANED WITH HEPA VACUUMING EQUIPMENT WHILE THE HVAC SYSTEM IS UNDER CONSTANT NEGATIVE PRESSURE AND SHALL NOT BE PERMITTED TO GET WET ACCORDING TO NADCA ACR 2006.

CLEANING METHODS USED SHALL NOT CAUSE DAMAGE TO INSULATION AND WILL RENDER THE SYSTEM CAPABLE OF PASSING THE HVAC SYSTEM CLEANLINESS TESTS (SEE NADCA ACR 2006).

ANY MINERAL FIBER INSULATION MATERIALS THAT BECOME WET FROM OTHER CLEANING ACTIVITIES SHALL BE REPLACED.

COIL CLEANING:

CHILLED WATER COOLING COILS: CLEAN CHILLED WATER COOLING COILS AS FOLLOWS:

DE-ENERGIZE UNIT AND FOLLOW LOCK OUT/TAG PROCEDURES BEFORE CLEANING.

REMOVE DEBRIS GUARDS, CASING, ETC. TO PROVIDE ACCESS TO COILS.

USE A MILD DISH DETERGENT, SUCH AS DAWN® LIQUID, AS THE CLEANING AGENT.

KEEP THE SUPPLY FAN IN OPERATION TO PROVIDE DIFFERENTIAL AIR PRESSURE ACROSS THE COIL TO MOVE THE FLUSHING WATER AND CLEANING SOLUTION THROUGH THE COIL.

APPLY THE DETERGENT LIQUID (ABOUT A 10% SOLUTION IN WATER) WITH A PUMP SPRAYER ON THE UPSTREAM FACE OF THE COIL, ALLOWING IT TO SOAK IN. THEN, FLUSH REPEATEDLY WITH CLEAN, COLD WATER. DO NOT USE A PRESSURE WASHER.

REPEAT THIS PROCESS UNTIL SUDS AND WATER APPEAR ON THE DOWNSTREAM SIDE OF THE COIL, WITH THE WATER OFF THE COIL FINALLY RUNNING "CLEAR".

INSPECT FINS FOR ALUMINUM OXIDATION AND DETERIORATION AND REPORT CONDITION TO A/E. IF FINS ARE BENT OR SMASHED, USE A COIL COMB TO STRAIGHTEN AS MUCH AS POSSIBLE. REPLACE CASING, DEBRIS GUARDS, ETC. AND RESTART UNIT.

COIL DRAIN PANS SHALL BE DRAINED AND CLEANED. AFTER CLEANING, TEST TO ENSURE THAT CONDENSATE DRAIN PANS ARE OPERATIONAL. REMOVE AND CLEAN CONDENSATE TRAP AND CLEAN DRAIN PIPING AS REQUIRED FOR DRAIN PAN SATISFACTORY OPERATION.

APPENDIX B
2018 BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
Thermal Zone: 2013 ASHRAE FUNDAMENTALS, GREENVILLE NC, CLIMATE ZONE 3A
winter dry bulb: 21°F
summer dry bulb: 95°F

Interior design conditions
winter dry bulb: 72°F
summer dry bulb: 75°F
relative humidity: 50%

Building heating load: N/A

Building cooling load: N/A

NO NEW EQUIPMENT

Mechanical Spacing Conditioning System
Unitary
description of unit: -
heating efficiency: -
cooling efficiency: -
size category of unit: -
Boiler
Size category. If oversized, state reason: -
Chiller
Size category. If oversized, state reason: -

List equipment efficiencies: -

MECHANICAL DRAWING LIST

NO.	TITLE
M001	STANDARDS, SYMBOLS & ABBREVIATIONS
M100	1ST FLOOR VIDEO & PHOTO LAB - MECHANICAL PLAN

HVAC GENERAL NOTES

1. THE CONSTRUCTION WASTE MANAGEMENT AND INDOOR AIR QUALITY PLANS INCLUDED IN THE DOCUMENTS WILL BE ENFORCED AND DOCUMENTED.
2. LOW EMITTING ADHESIVE & SEALANT MATERIALS AND PAINTS & COATINGS SHALL BE USED BY ALL TRADES. ALL SUCH MATERIALS SHOULD BE LABELED WITH APPROPRIATE VOC LIMITS. MATERIALS THAT DO NOT COMPLY WILL BE REMOVED AND REAPPLIED WITH LOW VOC MATERIALS.
3. COORDINATE WORK WITH OTHER TRADES PRIOR TO PURCHASE AND INSTALLATION OF ANY PIPING, DUCTWORK OR EQUIPMENT. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
4. REFER TO THE ARCHITECTURAL PLANS FOR DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
5. ALL DUCT AND PIPING LAYOUTS AND LOCATIONS SHOWN ARE DIAGRAMMATIC AND DO NOT INDICATE ALL FITTINGS REQUIRED TO COMPLETE WORK. COORDINATE THE DUCT AND PIPING LAYOUT WITH ALL CONTRACTORS PRIOR TO INSTALLATION, INCLUDING CONDUITS AND CABLE TRAYS. PROVIDE ALL DUCT AND/OR PIPING OFFSETS REQUIRED FOR THE COMPLETE INSTALLATION OF THE SYSTEM WHETHER OR NOT THE OFFSETS ARE INDICATED ON THE PLANS. INSTALL DUCTWORK AND PIPING HIGH ENOUGH TO AVOID LIGHTS, CONDUIT AND MISCELLANEOUS PIPING, BUT LOW ENOUGH TO ALLOW FOR EASY ACCESS TO SYSTEM BALANCING DEVICES. DO NOT BLOCK ACCESS TO DEVICES.
6. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS AND ARCHITECTURAL DETAILS FOR EXACT LOCATION OF ALL CEILING AND SIDEWALL AIR DISTRIBUTION AND DEVICES.
7. LOCATE UNITS SUCH THAT ACCESS PANELS MAY BE FULLY OPENED (VIA TILE CEILING) FOR SERVICING UNIT. COORDINATE LOCATION WITH LIGHTING FIXTURES OR ANY OTHER EQUIPMENT.
8. ROUND DUCT RUN-OUTS TO DIFFUSERS SHALL BE SAME SIZE AS INLET DIAMETER SCHEDULED, UNLESS NOTED OTHERWISE.
9. ALL DUCT DIMENSIONS ARE INSIDE CLEAR. SEE DETAILS AND SPECIFICATIONS FOR INSULATION REQUIREMENTS.
10. PROVIDE BALANCING DAMPERS WHERE INDICATED ON THE PLANS AND WHERE REQUIRED FOR SYSTEM BALANCING.
11. INSTALL ALL EQUIPMENT WITH THE MANUFACTURER'S RECOMMENDATION AND CODE REQUIRED CLEARANCES. INSURE ALL ITEMS FURNISHED WILL FIT IN THE SPACE AVAILABLE. MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS AND FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO PURCHASE AND INSTALLATION.
12. COORDINATE LOCATIONS AND ELEVATIONS OF ALL EXPOSED MECHANICAL ITEMS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: SENSORS, WALL DEVICES, SIDEWALL GRILLES, CONTROL PANELS, AND ALARMS.
13. FURNISH 24"x24" ACCESS DOORS (UNLESS OTHERWISE INDICATED) AT ALL MAINTENANCE ITEMS THAT ARE CONCEALED; SUCH AS EQUIPMENT, VALVES, DAMPERS, SENSORS, ETC. COORDINATE EXACT LOCATIONS WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
14. ALL WORK AND MATERIALS USED IS TO BE IN ACCORDANCE WITH THE 2018 NC MECHANICAL CODE.

HVAC DEMOLITION NOTES

1. SEE REQUIREMENTS OF SECTION 019916 OF THE SPECIFICATION.
2. THIS DEMOLITION PLAN MAY OR MAY NOT REFLECT ALL EXISTING HVAC COMPONENTS AND SYSTEMS. THIS DRAWING IS BASED ON AVAILABLE DRAWINGS AND/OR VISUAL OBSERVATIONS AND IS INTENDED TO INDICATE THE MAGNITUDE OF DEMOLITION WORK REQUIRED BUT NOT TO EXCLUDE WORK NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO SUBMISSION OF BID.
3. THE SCOPE OF THE DEMOLITION WORK REQUIRED INCLUDES REMOVAL OF ITEMS THAT MUST BE REINSTALLED OR REPLACED IN ORDER TO REMOVE ANOTHER ITEM OR INSTALL NEW WORK.
4. ALL EXISTING EQUIPMENT REMOVED SHALL BE DISPOSED OF BY THIS CONTRACTOR (UNLESS NOTED OTHERWISE).
5. CONTRACTOR TO PATCH BUILDING CONSTRUCTION (WALLS, FLOORS, CEILINGS, ROOF, ETC.) DISTURBED BY HVAC DEMOLITION TO MATCH EXISTING. HVAC CONTRACTOR TO MINIMIZE DISTURBANCE OF REMAINING CONSTRUCTION.
6. THERMOSTATS AND SENSORS CONTAINING MERCURY SHALL BE DISPOSED IN ACCORDANCE WITH THE EPA RESOURCE CONSERVATION ANS RECOVERY ACT (RCRA). CONTRACTORS SHALL REFER TO EPA WEBSITE FOR HANDLING PROCEDURES FOR DISPOSAL AND SPILL MANAGMENT OF PRODUCTS CONTAINING MERCURY.

PLUMBING DEMOLITION NOTES:

1. SEE REQUIREMENTS OF SECTION 019916 OF THE SPECIFICATION.
2. THIS DEMOLITION PLAN MAY OR MAY NOT REFLECT ALL EXISTING PLUMBING COMPONENTS AND SYSTEMS. THIS DRAWING IS BASED ON AVAILABLE DRAWINGS AND/OR VISUAL OBSERVATIONS AND IS INTENDED TO INDICATE THE MAGNITUDE OF DEMOLITION WORK REQUIRED BUT NOT TO EXCLUDE WORK NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO SUBMISSION OF BID.
3. THE SCOPE OF THE DEMOLITION WORK REQUIRED INCLUDES REMOVAL OF ITEMS THAT MUST BE REINSTALLED OR REPLACED IN ORDER TO REMOVE ANOTHER ITEM OR INSTALL NEW WORK.
4. ALL EXISTING EQUIPMENT REMOVED SHALL BE DISPOSED OF BY THIS CONTRACTOR (UNLESS NOTED OTHERWISE).
5. GENERAL CONTRACTOR TO PATCH BUILDING CONSTRUCTION (WALLS, FLOORS, CEILINGS, ROOF, ETC.) DISTURBED BY PLUMBING DEMOLITION TO MATCH EXISTING. PLUMBING CONTRACTOR TO MINIMIZE DISTURBANCE OF REMAINING CONSTRUCTION AND SHALL COORDINATE DEMOLITION AND REPAIR WITH GENERAL CONTRACTOR.

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EAST CAROLINA UNIVERSITY
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SEALS

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER ROGER M. WOODS SEAL 015004 ENGINEER
8/29/2023

DKA JOB NUMBER
2023-02457

REVISIONS

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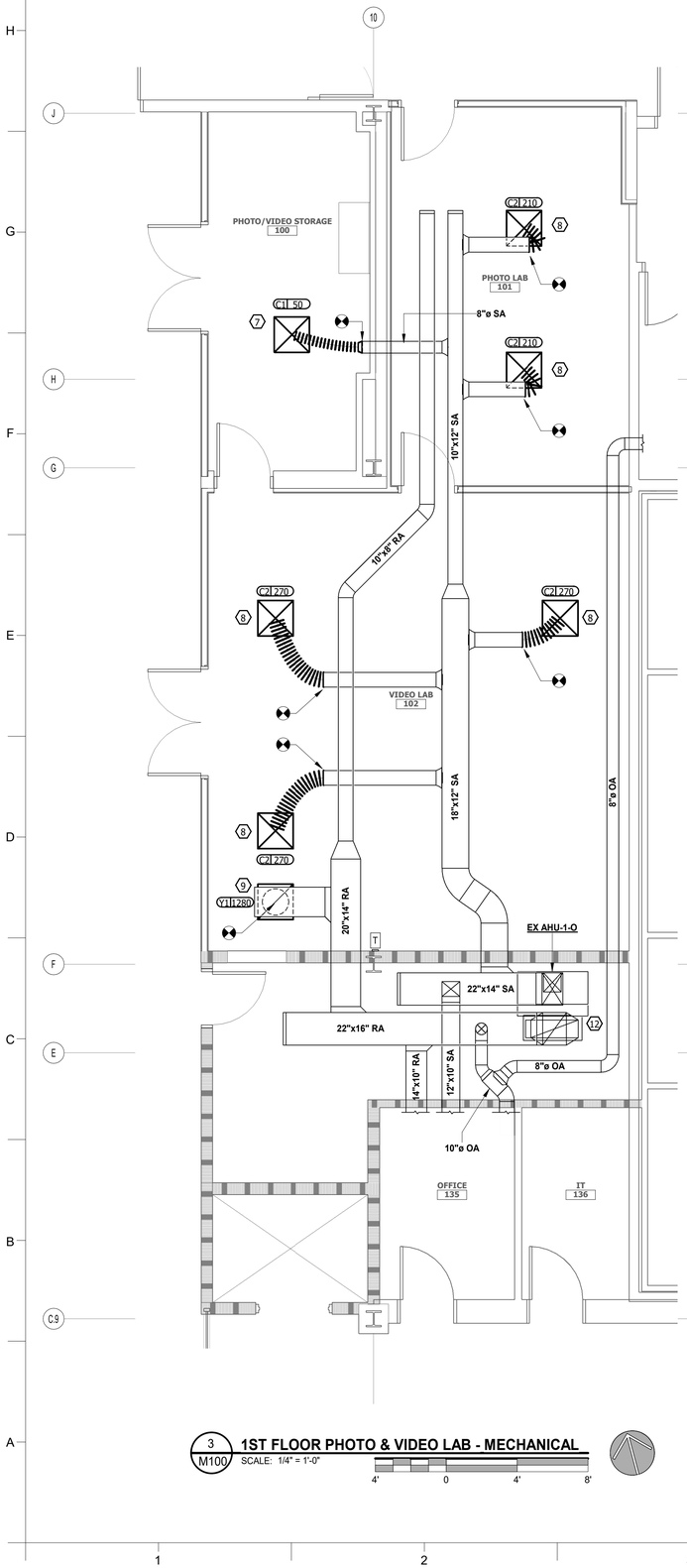
CONSTRUCTION DOCUMENTS
08/29/2023

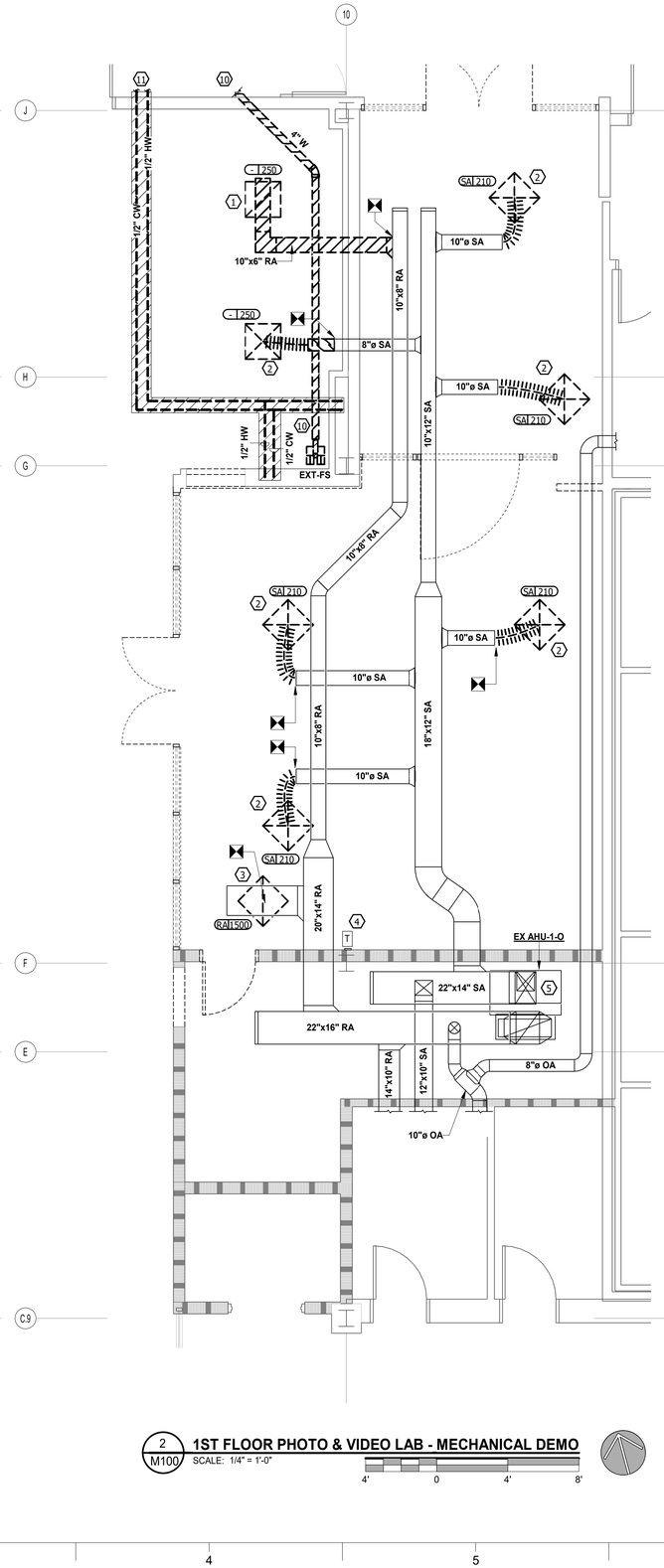
SHEET TITLE
STANDARDS, SYMBOLS & ABBREVIATIONS

M001



3 1ST FLOOR PHOTO & VIDEO LAB - MECHANICAL
M100 SCALE: 1/4" = 1'-0"

4' 0 4' 8'



2 1ST FLOOR PHOTO & VIDEO LAB - MECHANICAL DEMO
M100 SCALE: 1/4" = 1'-0"

4' 0 4' 8'

KEY NOTES TO M100

1 EXISTING RETURN GRILLE, ASSOCIATED DUCT, AND ACCESSORIES TO BE REMOVED BACK TO DUCT MAIN. DUCT TO BE PATCHED AS NECESSARY.

2 EXISTING SUPPY DIFFUSER, ASSOCIATED DUCT, AND ACCESSORIES TO BE REMOVED TO POINT SHOWN ON DRAWINGS. TEMPORARILY CAP REMAINING DUCT UNTIL RECONNECTION IN NEW WORK.

3 EXISTING RETURN GRILLE, ASSOCIATED DUCT, AND ACCESSORIES TO BE REMOVED TO POINT SHOWN.

4 EXISTING THERMOSTAT TO REMAIN.

5 EXISTING AIR HANDLER TO REMAIN. AIR HANDLER AND ASSOCIATED DUCTWORK SHALL BE CLEANED. SEE SPECIFICATIONS ON M001.

7 PROVIDE NEW SUPPLY DIFFUSER AS SHOWN. CONNECT NEW 6"ø FLEX DUCT TO EXISTING 8"ø DUCT. COORDINATE WITH LIGHTING AND OTHER CEILING DEVICES AS NECESSARY.

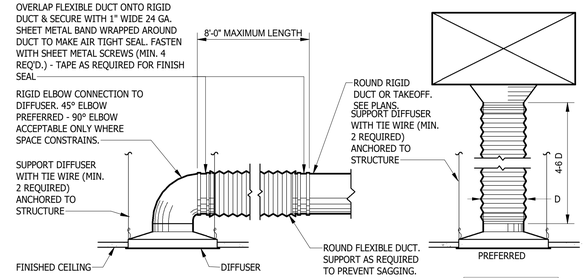
8 PROVIDE NEW SUPPLY DIFFUSER AS SHOWN. CONNECT NEW 10"ø FLEX DUCT TO EXISTING 10"ø DUCT. COORDINATE WITH LIGHTING AND OTHER CEILING DEVICES AS NECESSARY. REBALANCE DIFFUSER TO CFM SHOWN.

9 PROVIDE NEW RETURN GRILLE AS SHOWN. MATCH EXISTING CONDITIONS. COORDINATE WITH LIGHTING AND OTHER CEILING DEVICES AS NECESSARY. REBALANCE DIFFUSER TO CFM SHOWN.

10 EXISTING FLOOR SINK AND ASSOCIATED WASTE PIPE TO BE REMOVED. DEMO WASTE PIPE BACK TO MAIN AND CAP.

11 REMOVE DOMESTIC WATER LINES BACK TO MAINS.

12 CONTRACTOR SHALL VERIFY ALL EXISTING AIR FLOWS IN ROOMS SERVED BY AHU-1-O THAT ARE NOT PART OF THIS RENOVATION AND REBALANCE THOSE ROOMS TO THE EXISTING AIRFLOW RATES. SEE HVAC SPECIFICATIONS ON M001.



SW DETAIL: D06

1 M100 CEILING DIFFUSER INSTALLATION
SCALE: NTS

AIR DISTRIBUTION SCHEDULE

DESIGNATION	SERVICE	TYPE	MAX. AIRFLOW (CFM)	FACE SIZE (INxIN, ø IN)	NECK SIZE (INxIN, ø IN)	APD (IN)	MAX. NC	VOL. CONTROL DAMPER (Y/N)
C1	SUPPLY	PLAQUE	100	24x24	6	0.1	20	Yes
C2	SUPPLY	PLAQUE	300	24x24	10	0.1	20	Yes
Y1	RETURN/EXHAUST	EGG CRATE	2000	24x24	18	0.1	20	Yes

NOTES:
1 VERIFY MOUNTING FRAME STYLE WITH ARCHITECTURAL REFLECTED CEILING PLAN & FINISH SCHEDULE.
2 BASIS OF DESGIN: PRICE. APPROVED EQUALS: TITUS, NAILOR.
3 ALL GRILLES AND DIFFUSERS SHALL BE SHIPPED FACTORY PRIMED. ARCHITECT TO SELECT PAINT FINISH.

PARTITION SCHEDULE

1 HOUR RATED BARRIER

KEY PLAN:

DAVIS KANE ARCHITECTS, PA
503 OBERLIN ROAD | SUITE 300
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919.833.3737
www.daviskane.com

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 015004 ROGER M. WOODS
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SHEET TITLE
1ST FLOOR VIDEO & PHOTO LAB - MECHANICAL PLAN

M100

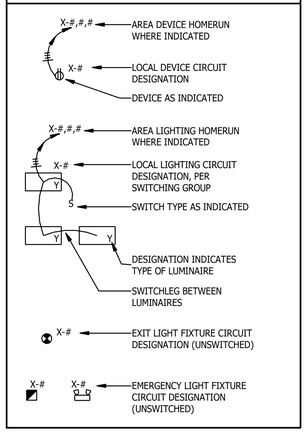
ELECTRICAL ABBREVIATIONS

A	AMPERES OR AMP METER
AC	ALTERNATING CURRENT
AF	AMP FRAME
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECTURAL
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAGE
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
C	CELSIUS; COIL
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION SYSTEM
CD/Cd	CANDELA
CLG	CEILING
COAX	COAXIAL CABLE
CONTR	CONTRACTOR
CT	CURRENT TRANSFORMER
CTV	CABLE TELEVISION
CU	COPPER
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
EGC	EQUIPMENT GROUNDING CONDUCTOR
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINATION CABINET
FFE	FINISHED FLOOR ELEVATION
FL	FLOOR
FLA	FULL LOAD AMPS
FLC	FLEXIBLE LIQUIDTIGHT CONDUIT
FLEX	FLEXIBLE
FMC	FLEXIBLE METAL CONDUIT
FT	FEET; FOOT
FU	FUSE
GA	GAUGE; GAGE
GB	GROUND BUS
GC	GENERAL CONTRACTOR
GEC	GROUNDING ELECTRODE CONDUCTOR
GFI, GFCI	GROUND FAULT (CIRCUIT) INTERRUPTER
GND	GROUND
HD	HEAVY DUTY
HOA	HANDS-OFF-AUTOMATIC
HP	HORSEPOWER
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HZ	HERTZ
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
JB	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LED	LIGHT EMMITTING DIODE
LRA	LOCKED ROTOR AMPS
LS	LIFE SAFETY
LTG	LIGHTING
M	MOTOR; METERING
MC	METAL CLAD
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CONTROL PROTECTOR
MCS	MOLDED CASE SWITCH
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUG ONLY
N, NEU	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NF	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN; NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OL	OVERLOAD
P	POLE
PB	PULL BOX
PC	PHOTOCELL
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PT	POINT; POTENTIAL TRANSFORMER

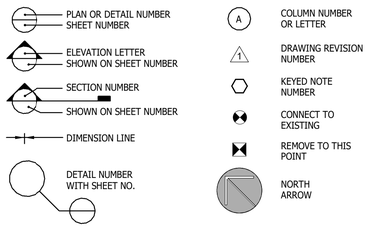
ELECTRICAL ABBREVIATIONS

PUN	PER UNIT NAMEPLATE
PVC	POLYVINYL CHLORIDE (CONDUIT)
RD	ROUND
REV	REVISION
RLA	RATED LOAD AMPS
RMC	RIDGID METAL CONDUIT
SN	SOLID NEUTRAL
SNAC	SIGNAL NOTIFICATION APPLIANCE CIRCUIT
SP	SURGE PROTECTED
SPD	SURGE PROTECTED DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPEC	SPECIFICATION
SPST	SINGLE POLE SINGLE THROW
SQ	SQUARE
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TBB	TELEPHONE BACK BOARD
TELECOM	TELECOMMUNICATIONS
TEMP	TEMPERATURE
THD	TOTAL HARMONIC DISTORTION
TV	TELEVISION
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES INC.
UNO	UNLESS NOTED OTHERWISE
V	VOLTAGE; VOLT
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
W	WIRE
W/	WITH
WG	WIREGUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
Z	IMPEDANCE
ø	ROUND; DIAMETER; PHASE

ELECTRICAL CIRCUITING KEY



GENERAL SYMBOLS



ELECTRICAL SYMBOLS

- WALL MTD LIGHTING FIXTURE AND OUTLET
- PENDANT LIGHTING FIXTURE AND OUTLET
- DOWNLIGHT LIGHTING FIXTURE AND OUTLET
- WALL MTD LIGHTING FIXTURE AND OUTLET
- PENDENT MOUNTED STRIP FIXTURE
- CEILING MTD LIGHTING FIXTURE AND OUTLET
- WALL MTD EXIT SIGN AND OUTLET, SINGLE FACE. ARROW INDICATES DIRECTION.
- CEILING MTD EXIT SIGN AND OUTLET, DUAL FACE. ARROWS INDICATE DIRECTION.
- EMERGENCY LIGHT BATTERY PACK - TWO HEAD UNIT.
- CEILING MOUNTED EMERGENCY BATTERY LIGHT
- EMERGENCY LIGHT REMOTE HEAD
- GROUND MOUNTED FLOODLIGHT AND OUTLET
- AREA LUMINAIR AND STANDARD
- FLUSH MTD TOGGLE SWITCH, SPST, 20A, 120/277V
- FLUSH MTD TOGGLE SWITCH, DPST, 20A, 120/277V
- FLUSH MTD 3-WAY TOGGLE SWITCH, 20A, 120/277V
- FLUSH MTD 4-WAY TOGGLE SWITCH, 20A, 120/277V
- FLUSH MTD DIMMER SWITCH, 20A, 120/277V
- FLUSH MTD KEY SWITCH, 20A, 120/277V
- FLUSH MOUNTED OCCUPANCY SENSOR SWITCH, 20A, 120/277V
- FLUSH MTD LIGHTED HANDLE TOGGLE SWITCH, SPST, 20A, 120V. LIGHT ON WITH OPEN SWITCH
- FLUSH MTD TOGGLE SWITCH WITH PILOT LIGHT. LIGHT ON WITH CLOSED SWITCH.
- TIMED SWITCH
- CEILING MTD INFRA-RED OCCUPANCY SENSOR SWITCH
- CEILING MTD ULTRASONIC OCCUPANCY SENSOR SWITCH
- CEILING MTD DUAL TECHNOLOGY (IR, U) OCCUPANCY SENSOR SWITCH
- PHOTOCELL
- FLUSH MTD DUPLEX RECEPTACLE, 20A, 125V, 3W
- FLUSH MTD DUPLEX GFCI RECEPTACLE, 20A, 125V, 3W
- FLUSH MTD DUPLEX RECEPTACLE WITH DUPLEX USB OUTLETS, 20A, 125V, 3W
- FLUSH MTD SINGLE RECEPTACLE, 20A, 125V, 3W
- FLUSH MTD QUADRUPLEX RECEPTACLE, 20A, 125V, 3W
- FLUSH MTD DUPLEX RECEPTACLE, 20A, 125V, 3W, SPLIT WIRED WITH TOP OUTLET SWITCHED.
- FLUSH MTD DUPLEX RECEPTACLE, 20A, 125V, 3W, INSTALLED VERTICALLY 4" ABOVE BACKSPLASH OR COUNTERTOP IF NO BACKSPLASH EXISTS.
- FLUSH MTD QUADRUPLEX RECEPTACLE, 20A, 125V, 3W, INSTALLED VERTICALLY 4" ABOVE BACKSPLASH OR COUNTERTOP IF NO BACKSPLASH EXISTS.
- WALL MOUNTED POWER DEVICE
- FLOOR BOX WITH DEVICE(S). REFER TO SCHEDULES FOR MARK
- WALL MTD TELECOM OUTLET, REFER TO SCHEDULES FOR MARK
- CEILING MTD RECEPTACLE AND OUTLET, 20A, 125V
- CEILING MTD TELECOM OUTLET, REFER TO SCHEDULES FOR MARK
- CEILING MTD DUPLEX RECEPTACLE & TELECOM OUTLET, REFER TO SCHEDULES FOR MARK
- CEILING MTD PUBLIC ADDRESS SPEAKER
- FLUSH MTD VOLUME CONTROL FOR SPEAKER
- WALL MTD TELEVISION ANTENNA/ELECTRICAL OUTLET, REFER TO SCHEDULES FOR MARK
- (WIFI) WIRELESS ACCESS POINT.
- PANELBOARD, 250V LEVEL
- PANELBOARD, 600V LEVEL
- HOMERUN; ARROW HEADS INDICATE NUMBER OF CIRCUITS, LETTERS AND NUMBERS DESIGNATE PANEL AND CIRCUITS. SHORT TICK MARKS INDICATE NUMBER OF CURRENT CARRYING PHASE CONDUCTORS. LONG TICK MARK(S) INDICATE NEUTRAL(S). GROUNDING CONDUCTORS REQUIRED BY SPECIFICATIONS ARE NOT SHOWN. CONDUCTOR SIZES SPECIFIED ON THE PANEL SCHEDULES ARE MANDATORY FOR THE ENTIRE CIRCUIT EXCEPT WHERE SPECIFICATIONS REQUIRE A SIZE INCREASE FOR VOLTAGE DROP.
- SURFACE METAL RACEWAY WITH DEVICES, LETTER DESIGNATES TYPE
- PENDANT MTD, PLUG-IN BUS DUCT WITH PLUG-IN CIRCUIT BREAKER OR FUSIBLE SWITCH AND TAP BOX. DUCT AND SWITCH RATING AS NOTED.
- TOP # - DEVICE MAXIMUM RATING OR FRAME SIZE
  BOTTOM # - FUSE SIZE OR DEVICE SETTING
- DISCONNECT SWITCH.
- COMBINATION DISCONNECT SWITCH AND MAGNETIC MOTOR STARTER. SEE SCHEDULE OR NOTE.
- FLUSH MTD MANUAL MOTOR STARTER SWITCH WITHOUT OVERLOAD HEATERS
- MAGNETIC MOTOR STARTER
- 3 POLE CIRCUIT BREAKER IN ENCLOSURE. # INDICATES CB RATING.
- VARIABLE FREQUENCY DRIVE CONTROLLER, 40" AFF, PROVIDED BY HVAC OR PLUMBING CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR
- MAGNETIC CONTACTOR, SIZE PER SCHEDULE
- JUNCTION, PULL, TAP OR OUTLET BOX (CODE SIZE)
- TIME CLOCK
- MAGNETIC RELAY, SIZE PER SCHEDULE

- FLUSH MOUNTED MUSHROOM HEAD PUSH BUTTON
- FLUSH MOUNTED PUSH BUTTON
- SUPPLEMENTAL GROUND BAR
- GROUND PER NEC
- ELECTRICAL DEMAND METER
- SURGE PROTECTION DEVICE
- WALL MTD FIRE ALARM PULL STATION
- SMOKE DETECTOR, CEILING MTD
- SMOKE DETECTOR FOR ELEVATOR RECALL, CEILING MTD
- SMOKE DETECTOR WITH SOUNDER BASE, CEILING MTD
- SMOKE DETECTOR, CEILING MTD, MULTI SENSOR
- CEILING MTD REMOTE ALARM INDICATOR LAMP
- CARBON MONOXIDE DETECTOR
- SMOKE DETECTOR, DUCT MTD (WITH RAIL)
- HEAT DETECTOR, CEILING MTD
- SMOKE DETECTOR, WALL MTD
- SMOKE DETECTOR WITH SOUNDER BASE, WALL MTD
- WALL MTD HEAT DETECTOR
- WALL MTD REMOTE ALARM INDICATOR LAMP (RAIL)
- WALL MTD HORN TYPE AUDIO/VISUAL APPLIANCE
- WALL MTD SPEAKER TYPE AUDIO/VISUAL APPLIANCE
- WALL MTD CHIME TYPE AUDIO/VISUAL APPLIANCE
- WALL MTD VISUAL ALARM APPLIANCE
- CEILING MTD HORN TYPE AUDIO/VISUAL ALARM APPLIANCE
- CEILING MTD SPEAKER TYPE AUDIO/VISUAL ALARM APPLIANCE
- CEILING MTD CHIME TYPE AUDIO/VISUAL ALARM APPLIANCE
- CEILING MTD FIRE ALARM VISUAL DEVICE
- DOOR HOLDER
- FIRE ALARM MONITOR MODULE
- FLOW SWITCH FIRE ALARM CONNECTION, SWITCH PROVIDED BY OTHERS
- TAMPER SWITCH FIRE ALARM CONNECTION, SWITCH PROVIDED BY OTHERS
- POST INDICATOR VALVE FIRE ALARM CONNECTION, VALVE PROVIDED BY OTHERS
- FIRE ALARM TEMPERATURE SENSOR
- FIRE ALARM CONTROL MODULE OR RELAY
- CEILING MTD FIRE ALARM SPEAKER
- CLOCK
- FIRE ALARM BELL; # INDICATED DIAMETER IN INCHES
- LINEAR BEAM TRANSMITTER
- LINEAR BEAM RECEIVER
- FIRE ALARM WALL MTD SPEAKER
- FIREMAN'S 2-WAY TELEPHONE
- FIRE ALARM ISOLATION MODULE
- FIRE ALARM ASPIRATION SMOKE DETECTOR
- DIGITAL ALARM COMMUNICATIONS TRANSMITTER
- FIRE ALARM ANNUNCIATOR PANEL
- FIRE ALARM CONTROL PANEL
- FIRE ALARM TERMINAL CABINET
- SUPPLEMENTAL NOTIFICATION APPLIANCE CABINET
- DOOR CONTROL ID TAG
- SECURITY SYSTEM KEYPAD, 42" AFF
- ACCESS CONTROL CARD READER
- SECURITY PANIC BUTTON
- CCTV SECURITY CAMERA WITH FIXED MOUNT
- CCTV SECURITY CAMERA WITH PTZ FEATURES
- CCTV DOME SECURITY CAMERA WITH 360 FEATURES
- EMERGENCY TELEPHONE
- MASTER RESCUE ASSISTANCE STATION
- RESCUE ASSISTANCE STATION
- RESCUE ASSISTANCE LIGHT
- CORD REEL
- NEW WORK
- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED

ELECTRICAL GENERAL NOTES

1. ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE UTILIZED FOR THIS PROJECT.
2. SYMBOLS NOT SHOWN ON THIS ELECTRICAL SYMBOL LEGEND ARE IDENTIFIED ON THE DRAWINGS WHERE THEY OCCUR.
3. UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS OR ON THE DRAWINGS, MOUNTING HEIGHT OF DEVICES IS TO BE THE CENTERLINE OF THE DEVICE.
4. UNLESS OTHERWISE INDICATED, SWITCHES AND SIMILAR DEVICES ARE TO BE LOCATED 42" AFF; RECEPTACLES ARE TO BE VERTICALLY MOUNTED AT 18" AFF WITH THE GROUNDING TERMINAL ON THE BOTTOM.
5. TELEPHONE & DATA OUTLETS ARE TO BE MOUNTED AT 18" AFF UNLESS OTHERWISEINDICATED. "W" INDICATES MOUNTING AT 42" AFF; "C" INDICATES MOUNTING ABOVECOUNTERTOP WITH ALIGNMENT AND HEIGHT AS INDICATED FOR RECEPTACLES SIMILARLY MOUNTED.
6. FIRE ALARM PULL STATIONS ARE TO BE VERTICALLY MOUNTED AT 42" AFF.
7. FIRE ALARM INDICATING APPLIANCES SHALL BE 15 Cd RATING, UNLESS NOTED OTHERWISE ON THE PLANS.
8. FIRE ALARM INDICATING APPLIANCES ARE TO BE MOUNTED WITH THE LOWER EDGE OF THE VISUAL ELEMENT AT 6'-8" AFF OR 6" BFC, WHICHEVER IS LOWER. WHERE DUCTWORK, CONDUIT, OR OTHER OBSTRUCTIONS BLOCK DIRECT VIEW OF APPLIANCE, MOUNT 6" BELOW SUCH OBSTRUCTIONS.
9. CEILING MOUNTED SMOKE DETECTORS ARE SHOWN IN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH CEILING FEATURES. WALL MOUNTED SMOKE DETECTORS ARE TO BE MOUNTED 10" BELOW FINISHED CEILING TO THE CENTER OF DEVICE AND A MINIMUM OF 12" FROM ADJACENT WALLS OR OTHER OBSTRUCTIONS.
10. COORDINATE SMOKE DETECTOR AND HEAT DETECTOR LOCATIONS WITH HVAC SUPPLY AND RETURN GRILLES. MAINTAIN 3'-0" CLEARANCE BETWEEN EDGE OF SUPPLY GRILL AND EDGE OF SMOKE DETECTOR.
11. UPPER CASE LETTER (OR LETTER/NUMBER COMBINATION) ADJACENT TO FIXTURE OR SWITCH DESIGNATES TYPE. SEE FIXTURE SCHEDULE FOR DETAILS.
12. LOWER CASE LETTER ADJACENT TO FIXTURE OR SWITCH DESIGNATES CONTROL RELATIONSHIP.
13. NUMBER ADJACENT TO FIXTURE, SWITCH, OR RECEPTACLE DESIGNATES CIRCUIT CONNECTION.
14. SINGLE DIAGONAL LINE ACROSS A FIXTURE INDICATES FIXTURE IS UNSWITCHED FOR 24 HOUR OPERATION.
15. DIAGONAL HATCH ACROSS A FIXTURE INDICATES FIXTURE IS SUPPLIED FROM THE CRITICAL BRANCH OF THE ESSENTIAL ELECTRICAL SYSTEM.
16. CROSS HATCH ACROSS A FIXTURE INDICATES FIXTURE IS SUPPLIED FROM THE LIFE SAFETY BRANCH OF THE ESSENTIAL ELECTRICAL SYSTEM.

ELECTRICAL DEMOLITION GENERAL NOTES

(ER) EXISTING ELECTRICAL ITEM TO REMAIN. REFEED FROM EXISTING CIRCUITING IF DEMOLITION IN ADJACENT AREAS DISCONNECT EXISTING CIRCUITING.

(R) EXISTING ELECTRICAL ITEM TO BE REMOVED INCLUDING ALL WIRING, CONDUIT AND ASSOCIATED ELECTRICAL ITEMS.

1. ALL DEMOLITION WORK IS TO BE COORDINATED WITH PHASING OF CONSTRUCTION AND BID ALTERNATES AS OUTLINED ON ARCHITECTURAL SHEETS.
2. REMOVE ALL ELECTRICAL CONDUIT, CABLE, WIRING, DEVICES, JUNCTION BOXES, FITTINGS, AND RELATED ITEMS FROM ALL WALLS, CEILINGS, FLOORS, AND/OR PORTIONS OF SAME INDICATED AS BEING DEMOLISHED BY ANY DIVISION OF THE CONTRACT DOCUMENT SET OR INDICATED ELSEWHERE IN THE CONTRACT DOCUMENT SET AS REQUIRING ELECTRICAL DEMOLITION.
3. REMOVE ALL LIGHTING FIXTURES AND RELATED ITEMS FROM THE DEMOLITION AREA OR OTHER AREAS WHERE NEW LIGHTING FIXTURES ARE TO BE INSTALLED. EXISTING CONDUIT OR CABLE SERVING ITEMS OUTSIDE THE DEMOLITION AREA MAY REMAIN IF THEY ARE CONCEALED BY THE NEW CONSTRUCTION AND MEET THE SPECIFICATIONS REQUIREMENTS OF THE PRESENT PROJECT. NEW FIXTURES ARE TO BE SUPPLIED BY NEW (OR REUSED) CIRCUITS AS INDICATED.
4. EXTEND OR RELOCATE ALL EXISTING CIRCUITS AND RELATED ITEMS SERVING EXISTING UTILIZATION OR OTHER EQUIPMENT WHERE SUCH CIRCUITS OR ITEMS ARE DISRUPTED DUE TO DEMOLITION ACTIVITIES OF ANY DIVISION OF THIS PROJECT. RELOCATE ALL EXISTING JUNCTION BOXES OR SIMILAR ITEMS THAT WILL BE RENDERED INACCESSIBLE BY NEW CONSTRUCTION FURNISHED UNDER ANY DIVISION OF THIS PROJECT. PROVIDE ANY AND ALL TEMPORARY ELECTRICAL SUPPLY (SUPPLIES) AS NEEDED TO MEET THIS REQUIREMENT.
5. REMOVE ALL ABANDONED CIRCUITS BACK TO THE POINT OF SUPPLY OR BACK TO THE POINT WHERE OTHER REMAINING LOADS ARE CONNECTED. LABEL ANY UNUSED OVERCURRENT DEVICES AS "SPARE".
6. WHERE EQUIPMENT OR DEVICES ARE REMOVED AND NOT REPLACED BY A SIMILAR ITEM OR EQUIPMENT, REPAIR WALL SURFACES TO MATCH EXISTING SURROUNDING SURFACE. PAINT AS REQUIRED TO MATCH EXISTING FINISHES.
7. PROVIDE NEW SUPPORT(S) OR RE-SUPPORT AS REQUIRED ALL EXISTING CONDUIT, JUNCTION BOXES, CABLES, AND/OR OTHER ELECTRICAL ITEMS AS REQUIRED TO MEET THE SUPPORT REQUIREMENTS OF THE PRESENT PROJECT.
8. PROVIDE NEW, OR REWORK EXISTING, FIRE STOPPING AT ALL THROUGH-PENETRATIONS OF CONDUIT OR OTHER ELECTRICAL ITEMS THAT WILL REMAIN AT THE CONCLUSION OF THE PROJECT. FIRE STOPPING PROVIDED FOR EXISTING ITEMS MUST MEET THE REQUIREMENTS OF THE PRESENT PROJECT.
9. WHERE EXISTING FIXTURES ARE TO BE REUSED, USE MILD DETERGENT AND CLEAN ALL INTERIOR AND EXTERIOR SURFACES. REPLACE LAMPS AND BALLAST'S AND ANY MISSING OR BROKEN ELECTRICAL PARTS. ALL FLUORESCENT LAMPS ARE TO BE COOL WHITE.
10. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING ALL PHASES OF CONSTRUCTION.
11. CIRCUIT NUMBERING IN PARENTHESIS ( ) ARE BASED ON PREVIOUS PROJECT DOCUMENTATION ARE PROVIDED IN GOOD FAITH AND ARE BELIEVED TO BE ACCURATE. CONTRACTOR IS TO VERIFY EXISTING CIRCUITING AND CONSULT ENGINEER IF SERIOUS DISCREPENSIES EXIST.

APPENDIX B
2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance:

Energy Code: ☒ Prescriptive ☒ Performance
ASHRAE 90.1: ☒ Prescriptive ☒ Performance

Lighting schedule (each fixture type)

lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
} See fixture Schedule on Drawing Sheet

total interior wattage specified vs. allowed: vs.
(whole building or space by space)

total exterior wattage specified vs. allowed: vs.

Additional Efficiency Package Options
(When using the 2018 NCECC, not required for ASHRAE 90.1)

- ☒ C406.2 More Efficient Mechanical Equipment
- ☒ C406.3 Reduced Lighting Power Density
- ☒ C406.4 Enhanced Digital Lighting Controls
- ☒ C406.5 On-Site Renewable Energy
- ☒ C406.6 Dedicated Outdoor Air System
- ☒ C406.7 Reduced Energy Use in Service Water Heating

ELECTRICAL DRAWING LIST

NO.	TITLE
E001	STANDARDS, SYMBOLS & ABBREVIATIONS
E100	1ST FLOOR VIDEO & PHOTO LAB - POWER PLAN
E101	1ST FLOOR VIDEO & PHOTO LAB - LIGHTING PLAN
E200	ELECTRICAL DETAILS & SCHEDULES

DAVIS KANE ARCHITECTS, PA
503 OBERLIN ROAD | SUITE 300
RALEIGH, NC 27605
919.833.3737
www.daviskane.com

PROJECT INFORMATION

Salas O'Brien
1620 Midtown Place
Raleigh, NC 27609
919-832-8118
salasobrien.com
license (NC): F-1434

MENDENHALL COMMUNICATIONS SUITE
EAST CAROLINA UNIVERSITY
500 9TH STREET, GREENVILLE, NC 27858

SEALS

NORTH CAROLINA PROFESSIONAL SEAL 42004 ENGINEER ADDISON M. DIX
8/30/2023

DKA JOB NUMBER
2023-02457

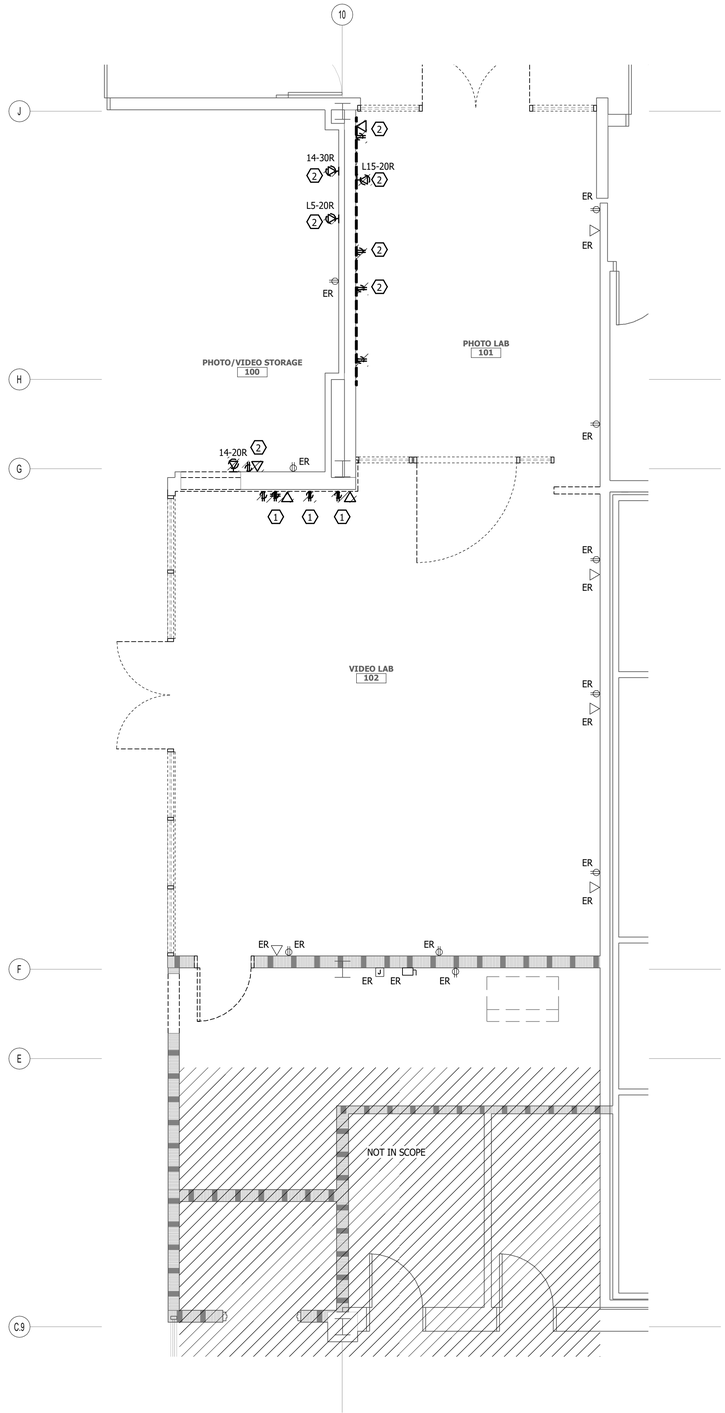
REVISIONS

Checked By: AMD
Drawn By: BLT
Plot Date: 8/29/2023 2:48:54 PM

DATE ISSUED
CONSTRUCTION DOCUMENTS
08/29/2023

SHEET TITLE
STANDARDS, SYMBOLS & ABBREVIATIONS

E001



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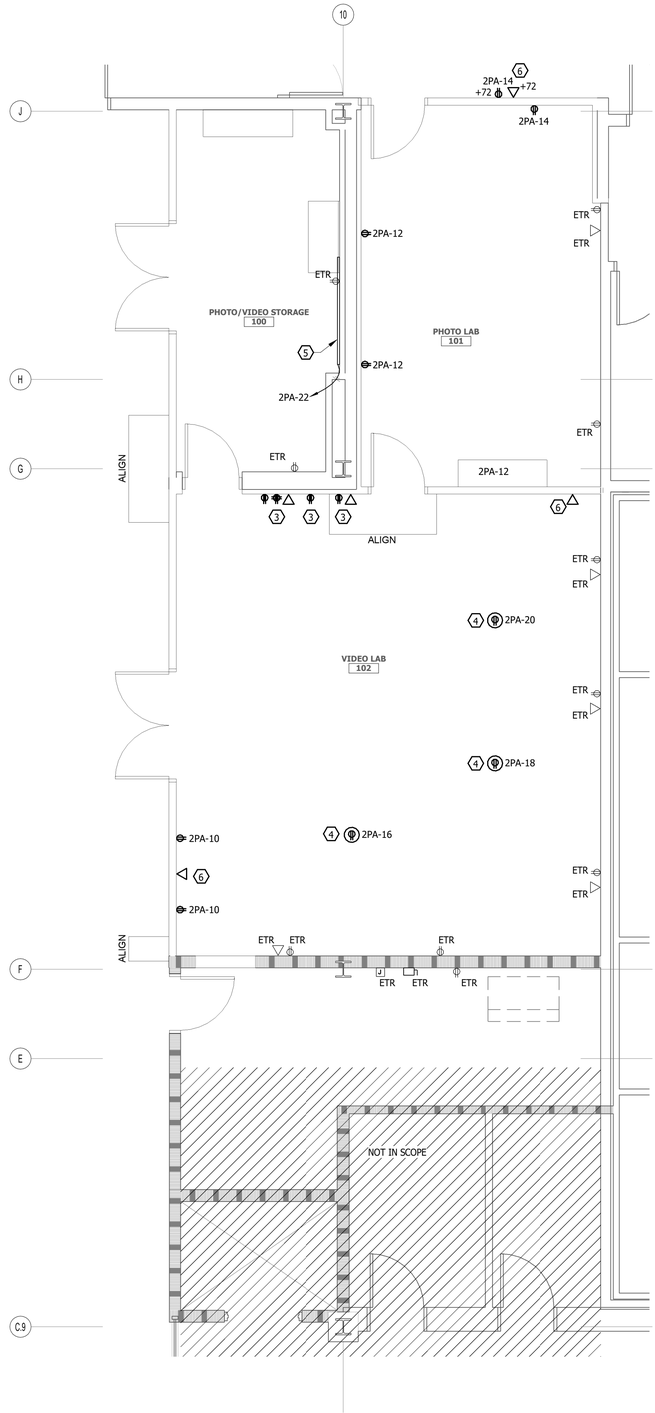

2 E100 **1ST FLOOR PHOTO & VIDEO LAB - POWER**
SCALE: 1/4" = 1'-0"
4' 0 4' 8'

ELECTRICAL DEMOLITION GENERAL NOTES

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(R) EXISTING ELECTRICAL ITEM TO BE REMOVED INCLUDING ALL WIRING, CONDUIT AND ASSOCIATED ELECTRICAL ITEMS.

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3 REMOVE ALL LIGHTING FIXTURES AND RELATED ITEMS FROM THE DEMOLITION AREA OR OTHER AREAS WHERE NEW LIGHTING FIXTURES ARE TO BE INSTALLED. EXISTING CONDUIT OR CABLE SERVING ITEMS OUTSIDE THE DEMOLITION AREA MAY REMAIN IF THEY ARE CONCEALED BY THE NEW CONSTRUCTION AND MEET THE SPECIFICATIONS REQUIREMENTS OF THE PRESENT PROJECT. NEW FIXTURES ARE TO BE SUPPLIED BY NEW (OR REUSED) CIRCUITS AS INDICATED.

4 EXTEND OR RELOCATE ALL EXISTING CIRCUITS AND RELATED ITEMS SERVING EXISTING UTILIZATION OR OTHER EQUIPMENT WHERE SUCH CIRCUITS OR ITEMS ARE DISRUPTED DUE TO DEMOLITION ACTIVITIES OF ANY DIVISION OF THIS PROJECT. RELOCATE ALL EXISTING JUNCTION BOXES OR SIMILAR ITEMS THAT WILL BE RENDERED INACCESSIBLE BY NEW CONSTRUCTION FURNISHED UNDER ANY DIVISION OF THIS PROJECT. PROVIDE ANY AND ALL TEMPORARY ELECTRICAL SUPPLY (SUPPLIES) AS NEEDED TO MEET THIS REQUIREMENT.

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8 PROVIDE NEW, OR REWORK EXISTING, FIRE STOPPING AT ALL THROUGH-PENETRATIONS OF CONDUIT OR OTHER ELECTRICAL ITEMS THAT WILL REMAIN AT THE CONCLUSION OF THE PROJECT. FIRE STOPPING PROVIDED FOR EXISTING ITEMS MUST MEET THE REQUIREMENTS OF THE PRESENT PROJECT.

9 WHERE EXISTING FIXTURES ARE TO BE REUSED, USE MILD DETERGENT AND CLEAN ALL INTERIOR AND EXTERIOR SURFACES. REPLACE LAMPS AND BALLAST'S AND ANY MISSING OR BROKEN ELECTRICAL PARTS. ALL FLUORESCENT LAMPS ARE TO BE COOL WHITE.

10 PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING ALL PHASES OF CONSTRUCTION.

11 CIRCUIT NUMBERING IN PARENTHESIS ( ) ARE BASED ON PREVIOUS PROJECT DOCUMENTATION ARE PROVIDED IN GOOD FAITH AND ARE BELIEVED TO BE ACCURATE. CONTRACTOR IS TO VERIFY EXISTING CIRCUITING AND CONSULT ENGINEER IF SERIOUS DISCREPENSIES EXIST.

KEY NOTES TO E100

1 DISCONNECT AND REMOVE EXISTING DEVICE(S). EXISTING BACKBOX AND WIRING/CABLING TO REMAIN. PREPARE WIRING FOR RE-USE.

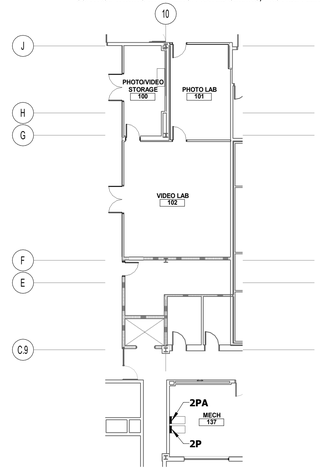
2 DISCONNECT AND REMOVE EXISTING DEVICE(S). REMOVE EXISTING WIRING AND ASSOCIATED CONDUIT BACK TO SOURCE AND MAKE SAFE.

3 PROVIDE NEW EXTENDER BOX TO BRING FACE OF EXISTING WALLBOX FLUSH WITH NEW WALL. EXTENDER BOX TO MATCH EXISTING WALLBOX SIZE. EXTEND EXISTING WIRING/CABLING AND RECONNECT TO NEW DEVICE(S).

4 PROVIDE NEW CEILING MOUNTED RECESSED DUPLEX RECEPTACLE. LOCATE RECEPTACLE IN CENTER OF NEW ACT CEILING TILE.

5 PROVIDE NEW WALL MOUNTED WIREMOLD SYSTEM, MOUNTED 42-INCHES AFF. WIREMOLD TO BE MANUFACTURED BY LEGRAND, MODEL 20GB506TR OR APPROVED EQUAL THAT MEET NEC 386.

6 ROUTE CAT 6E CABLE TO PATCH PANEL IN ROOM 124 APPOXIMATELY 100-FEET NW. PROVIDE NEW DATA OUTLET AND COVER. COORDINATE TERMINATION WITH OWNER. WHERE ROUTING COMMUNICATIONS OR CONTROL WIRING IN A PLENUM RATED CEILING, PROVIDE PLENUM RATED CABLE OR METALLIC CONDUIT.



3 E100 **PARTIAL 1ST FLOOR - ENLARGED**
SCALE: 1/16" = 1'-0"

PARTITION SCHEDULE

1 HOUR RATED BARRIER

KEY PLAN:

DAVIS KANE ARCHITECTS, PA
503 OBERLIN ROAD | SUITE 300
RALEIGH, NC 27605
919.833.3737
www.daviskane.com

PROJECT INFORMATION

Salas O'Brien
1620 Midtown Place
Raleigh, NC 27609
919-832-8118
salasobrien.com
license (NC): F-1434

MENDENHALL COMMUNICATIONS SUITE

EAST CAROLINA UNIVERSITY

500 9TH STREET, GREENVILLE, NC 27858

SEALS

NORTH CAROLINA PROFESSIONAL SEAL 42004 ENGINEER ADDISON M. DEE

8/30/2023

DKA JOB NUMBER
2023-02457

REVISIONS

Checked By: AMD
Drawn By: BLT
Plot Date: 8/29/2023 3:15:34 PM

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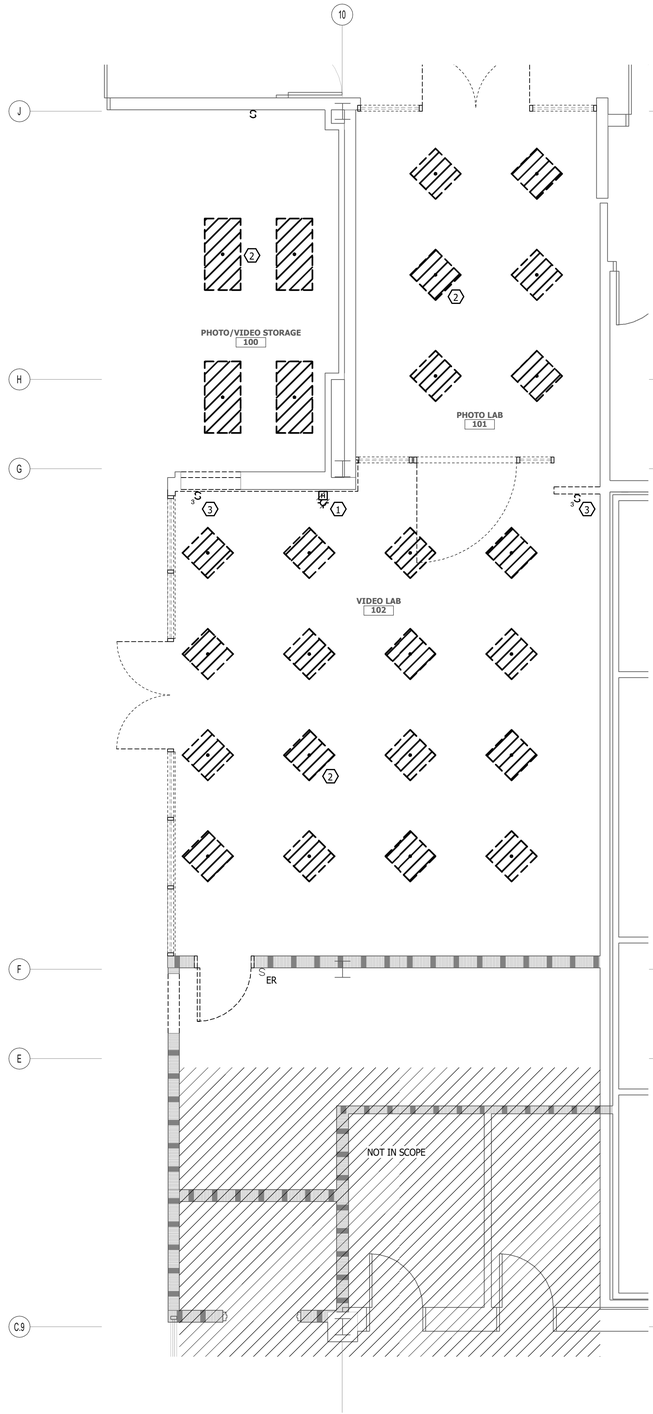
CONSTRUCTION DOCUMENTS
08/29/2023

SHEET TITLE
1ST FLOOR VIDEO & PHOTO LAB - POWER PLAN

E100



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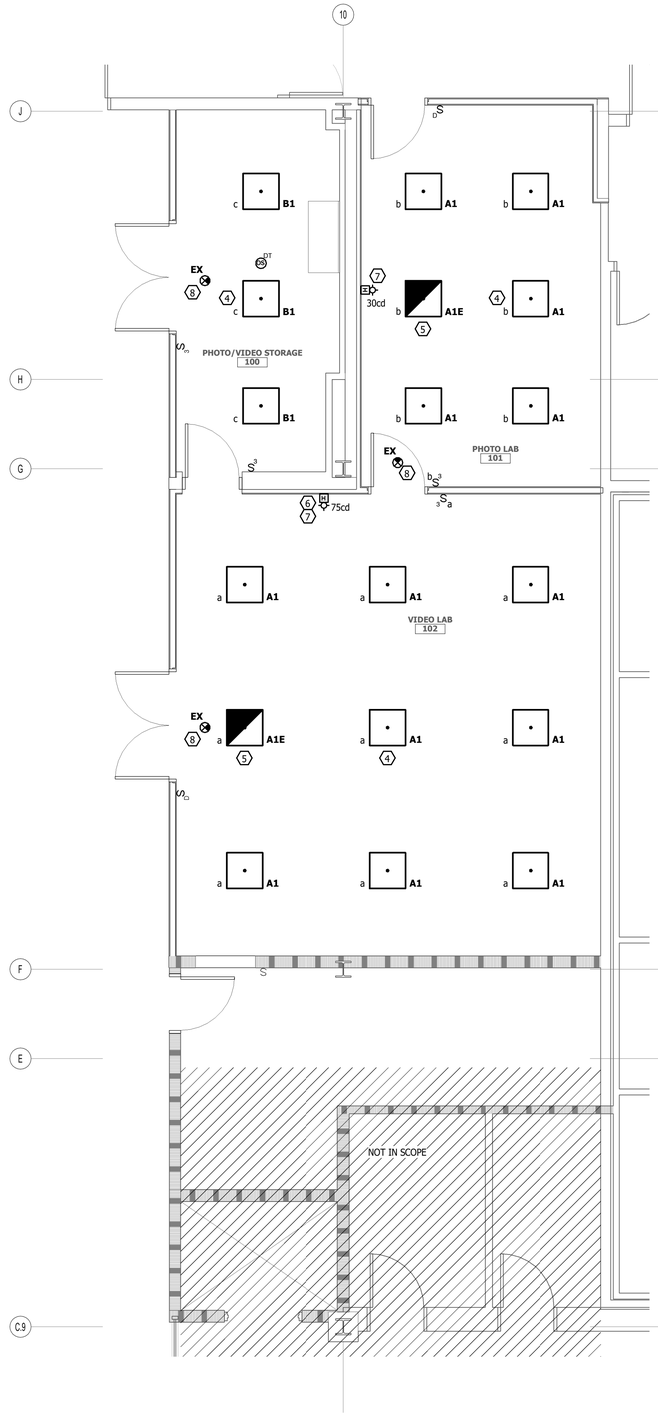
4' 0 4' 8'



2 E101 **1ST FLOOR PHOTO & VIDEO LAB - LIGHTING**
SCALE: 1/4" = 1'-0"
4' 0 4' 8'

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LIGHT FIXTURE DISPOSAL NOTES

1. EXISTING LIGHTING FIXTURES SHALL BE EXPECTED TO CONTAIN BALLASTS CONTAINING POLYCHLORINATED BIPHENYLS (PCB'S. THE CONTRACTOR SHALL DISPOSE OF THESE BALLASTS BY COLLECTING THEM IN METAL DRUMS. AND SHALL TRANSPORT THESE DRUMS TO AN APPROVED DISPOSAL SITE. THE CONTRACTOR'S RESPONSIBILITY SHALL BE TO PROPERLY COLLECT THE BALLASTS AND TURN THEM OVER TO A HAZMAT DISPOSAL FACILITY.

2. ON ALL FIXTURES TO BE DEMOLISHED THE CONTRACTOR SHALL OPEN THE WIRING COMPARTMENTS OF THE LIGHTING FIXTURE AND DETERMINE IF THE LIGHTING FIXTURE CONTAINS BALLAST(S) WITH PCB'S. NON PCB-CONTAINING BALLASTS WILL HAVE PRINTED ON THEIR LABELS "NO PCB'S". THE BALLASTS SHALL BE CONSIDERED TO CONTAIN PCB'S. BALLASTS EXPLICITLY STATING "NO PCB'S" SHALL BE DISPOSED OF BY THE CONTRACTOR AS PART OF THE NORMAL DEMOLITION OF MATERIALS IN THE PROJECT. ALL OTHER BALLASTS (MISSING LABELS, ILLEGIBLE LABELS, OR THOSE BALLASTS NOT EXPLICITLY MARKED "NO PCB'S SHALL HAVE THEIR WIRES CUT CLOSE TO THE BALLASTS AND BE REMOVED FROM THE LIGHTING FIXTURES.

3. CONTRACTOR SHALL EXPECT THAT ALL FLUORESCENT LAMPS CONTAIN MERCURY. THE CONTRACTOR SHALL DISPOSE OF THESE LAMPS BY COLLECTING AND CONTAINING THEM IN A MANNER THAT KEEPS THE LAMPS INTACT AND DELIVER TO A STATE APPROVED RECYCLE VENDOR. COORDINATED WITH THE UNIVERSITY PROJECT MANAGER TO COMPLY WITH THE UNIVERSITY'S DISPOSAL POLICIES.

FIRE ALARM NOTES

1. WHERE RELOCATING OR ADDING FIRE ALARM SYSTEMS DEVICES, DO NOT SPLICE OR "T" TAP FIRE ALARM WIRING. MAKE CONNECTIONS ONLY AT DEVICES OR IN TERMINAL CABINETS.

2. AFTER COMPLETING FIRE ALARM WORK, TEST 100% OF NEW DEVICES AND DEVICES ON SAME LOOP PLUS 10% OF EXISTING DEVICES FIRE ALARM SYSTEM TO VERIFY PROPER OPERATION.

3. FOR PROJECTS MIXING OLD AND NEW NOTIFICATION DEVICES IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR, BEFORE BEGINNING WORK, TO ENSURE THAT NEW AND EXISTING DEVICES CAN PRODUCE THE SAME, SYNCHRONIZED AUDIBLE TONE/PULSEALARM. IF NOT POSSIBLE, ALL EXISTING AUDIBLE DEVICES MAY NEED TO BE REPLACED. (NFPA 72-2007 6.8.6.5.3).

4. FIRE ALARM CONTRACTOR IS TO VERIFY EXISTING FIRE ALARM SYSTEM HAS BATTERY AND VOLTAGE CAPACITY TO HANDLE ALL DEVICES PLUS REQUIRED CAPACITY FOR POTENTIAL FUTURE DEVICES.

KEY NOTES TO E101

1 DISCONNECT AND REMOVE EXISTING FIRE ALARM NOTIFICATION DEVICE. EXISTING BACKBOX AND WIRING TO REMAIN. PREPARE WIRING FOR RE-USE.

2 DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURE. REMOVE EXISTING WIRING AND ASSOCIATED CONDUIT BACK TO NEAREST JUNCTION BOX AND PREPARE FOR RE-USE. (TYPICAL)

3 DISCONNECT AND REMOVE EXISTING LIGHTING SWITCH. REMOVE EXISTING WIRING AND ASSOCIATED CONDUIT BACK TO NEAREST JUNCTION BOX AND MAKE SAFE.

4 RECONNECT NEW LIGHTING FIXTURES TO EXISTING LIGHTING POWER CIRCUIT SERVING ROOM. EXTEND EXISTING CONDUCTORS AS REQUIRED TO ALLOW FOR CONNECTION. (TYPICAL)

5 PROVIDE UL924 LIGHTING RELAY FOR FIXTURE. FIXTURE TO BE CONTROLLED VIA LOCAL SWITCHING AND WILL ILLUMINATE TO FULL BRIGHTNESS UPON LOSS OF NORMAL POWER.

6 PROVIDE NEW EXTENDER BOX TO BRING FACE OF EXISTING WALLBOX FLUSH WITH NEW WALL.

7 PROVIDE NEW FIRE ALARM NOTIFICATION DEVICE. EXTEND EXISTING FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT WIRING TO NEW DEVICE AND RECONNECT. RE-TEST FIRE ALARM SYSTEM TO ENSURE PROPER INTEGRATION AND OPERATION.

8 CONNECT EXIT LIGHT TO LOCAL CIRCUIT IN THIS ROOM AHEAD OF SWITCH SYSTEM.

PARTITION SCHEDULE

1 HOUR RATED BARRIER

KEY PLAN:

DAVIS KANE ARCHITECTS, PA
503 OBERLIN ROAD | SUITE 300
RALEIGH, NC 27605
919.833.3737
www.daviskane.com

PROJECT INFORMATION

Salas O'Brien
1620 Midtown Place
Raleigh, NC 27609
919-832-8118
salasobrien.com
license (NC): F-1434

MENDENHALL COMMUNICATIONS SUITE

EAST CAROLINA UNIVERSITY

500 9TH STREET, GREENVILLE, NC 27858

SEALS

8/30/2023

DKA JOB NUMBER
2023-02457

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SHEET TITLE
1ST FLOOR VIDEO & PHOTO LAB - LIGHTING PLAN

E101

LIGHTING FIXTURE SCHEDULE

TYPE MARK	DESCRIPTION	COLOR	LUMENS	MOUNTING	VOLTAGE	WATTAGE	CONTROL	FIXTURE MEETING SPECIFICATION ML	COMMENTS	ICON
A1	ARCHITECTURAL 2x2 LAYIN RECESSED LIGHT	4000	2000	RECESSED	277	14 VA	0-10V	CREE: CR22 LITHONIA: 2RTL2 DAY-BRITE: 2DLG34L840		
A1E	ARCHITECTURAL 2x2 LAYIN RECESSED LIGHT	4000	2000	RECESSED	277	14 VA	0-10V	CREE: CR22 LITHONIA: 2RTL2 DAY-BRITE: 2DLG34L840	PROVIDE 90 MIN. BATTERY BACKUP	
B1	FLAT PANEL 2x2 LAYIN RECESSED LIGHT	4000	2000	RECESSED	277	14 VA	0-10V	CREE: C-TR-CFP22 LITHONIA: CPX DAY-BRITE: FPZ		
EX	EMERGENCY EXIT SIGN			SURFACE	277	5 VA		LITHONIA #LHQM-R-HO RO DUAL-LITE CHLORIDE BEGHELLI MULE	PROVIDE 90 MIN. BATTERY BACKUP	

FIXTURE SCHEDULE NOTES:

1. THIS FIXTURE SCHEDULE IDENTIFIES A FIXTURE THAT MEETS THE SPECIFIED PERFORMANCE REQUIREMENTS AND A LEVEL OF QUALITY REQUIRED FOR THE PROJECT. **MANUFACTURER'S NAMES AND FIXTURE SERIES/MODELS IN SCHEDULE ARE NOT A BRAND NAME SPECIFICATION.** EQUIVALENT FIXTURES BY MANUFACTURERS OTHER THAN THOSE LISTED MAY BE SUBMITTED FOR THIS PROJECT.
2. PROVIDE LED DRIVERS SUITABLE FOR FULL RANGE DIMMING, INTEGRAL SURGE PROTECTION, CURRENT TOTAL HARMONIC DISTORTION (THD) OF <20% AND A POWER FACTOR >0.90. IN ADDITION, DRIVERS MUST BE RF SUPPRESSED FOR MINIMUM INJECTION OF FEEDBACK INTO SUPPLY LINES. MAXIMUM CURRENT THD AND MINIMUM POWER FACTOR MUST BE SUBMITTED AS A PART OF THE FIXTURE SUBMITTAL DATA.
3. UNLESS OTHERWISE INDICATED, PROVIDE SINGLE DRIVER PER FIXTURE.
4. PROVIDE MOUNTING FRAME AND RELATED ACCESSORIES FOR ALL FIXTURES AS REQUIRED TO MATCH CEILING CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT CEILING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MODIFICATION OF FIXTURE SCHEDULE MANUFACTURER'S PART NUMBERS FOR PURPOSES OF MATCHING CEILING CONSTRUCTION.
5. PROVIDE DIMMING DRIVERS WHERE DIMMING CONTROLS ARE INDICATED ON THE PLANS.
6. ALL FIXTURES TO HAVE A COLOR TEMPERATURE OF 4000K UNLESS NOTED OTHERWISE.
7. UNLESS NOTED OTHERWISE, ALL FIXTURES SHALL INCLUDE INTEGRAL DRIVER.
8. ALL FIXTURES SHALL BE UL OR THIRD PARTY LISTED AS COMPLETE ASSEMBLY.
9. FOR LIGHT FIXTURES HAVING LINEAR VISUAL FEATURES (IE: CENTER BASKET, LOUVERS, ETC), COORDINATE AND ALIGN COMPONENTS IN A SIMILAR DIRECTION CONSISTENTLY ACROSS THE BUILDING SPACES.

SW DETAIL: IN0011 LED

PANEL ID: 2PA | **VOLTAGE: 208Y/120** | **SERVICE EQUIP:** | **MOUNTING: Surface**
SOURCE: | **AMPS: 225** | **MAIN: MLO** | **TYPE: EXISTING**
LOCATION: MECH 137 | **PANEL AIC: 10,000** | **APPROX. DIM: 20"W x 5.75"D**

LOAD	NOTE	COND	Phase, Neu, Grd Size	POLE	BKR	CKT	A		B		C		CKT	BKR	POLE	Phase, Neu, Grd Size	COND	NOTE	LOAD
SPARE				2	60	1	0	0					2						
						3			0	0			4	50	2				SPARE
SPARE				1	20	5					0	0	6						
						7	0	0					8	30	2				SPARE
SPARE				2	20	9			0	360			10	20	1	1-#12, 1-#12, 1-#12			REC VIDEO ROOM (NOTE 2)
EXISTING				1	20	11					0	540	12	20	1	1-#12, 1-#12, 1-#12			REC PHOTO ROOM (NOTE 2)
EXISTING				1	20	13	0	360					14	20	1	1-#12, 1-#12, 1-#12			REC PHOTO ROOM (NOTE 2)
EXISTING				1	20	15			0	180			16	20	1	1-#12, 1-#12, 1-#12			REC VIDEO RM LTG (NOTE 2)
EXISTING				1	20	17					0	180	18	20	1	1-#12, 1-#12, 1-#12			REC VIDEO RM LTG (NOTE 2)
SPACE		--	--	1	--	19	--	180					20	20	1	1-#12, 1-#12, 1-#12			REC VIDEO RM LTG (NOTE 2)
SPACE		--	--	1	--	21			--	720			22	20	1	1-#12, 1-#12, 1-#12			REC STORAGE (NOTE 2)
SPACE		--	--	1	--	23					--	--	24	--	1	--	--		SPACE
SPACE		--	--	1	--	25	--	--					26	--	1	--	--		SPACE
SPACE		--	--	1	--	27			--	--			28	--	1	--	--		SPACE
SPACE		--	--	1	--	29					--	--	30	--	1	--	--		SPACE
SPACE		--	--	1	--	31	--	--					32	--	1	--	--		SPACE
SPACE		--	--	1	--	33			--	--			34	--	1	--	--		SPACE
SPACE		--	--	1	--	35					--	--	36	--	1	--	--		SPACE
SPACE		--	--	1	--	37	--	--					38	--	1	--	--		SPACE
SPACE		--	--	1	--	39			--	--			40	--	1	--	--		SPACE
SPACE		--	--	1	--	41					--	--	42	--	1	--	--		SPACE
							540 VA 5 A		1260 VA 11 A		720 VA 6 A								

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	0 VA	0.00%	0 VA		
REC	2520 VA	100.00%	2520 VA	CONNECTED LOAD	2520 VA
				DEMAND LOAD	2520 VA
				AVG. CONNECTED CURRENT	7 A
				AVG. DEMAND CURRENT	7 A

NOTES:
1. EXISTING PANEL IS SQUARE D NQ TYPE.
2. PROVIDE NEW 20A, 1P BREAKER IN AVAILABLE SPACE.

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SHEET TITLE
ELECTRICAL DETAILS & SCHEDULES

E200