McHenry County College

2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012

ISSUED FOR BID - NOT FOR CONSTRUCTION

10/17/2024

DKA PROJECT NO: 24-031
MCC BID NO: IFB#11122024



ARCHITECT:

DEMONICA KEMPER ARCHITECTS
125 N. HALSTED ST., SUITE 301
CHICAGO, IL 60661
T: 312.496.0000 F: 312.496.0001

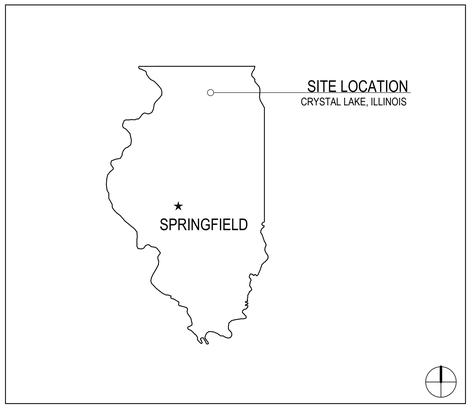
MEP-FP-T-ENGINEERS

20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

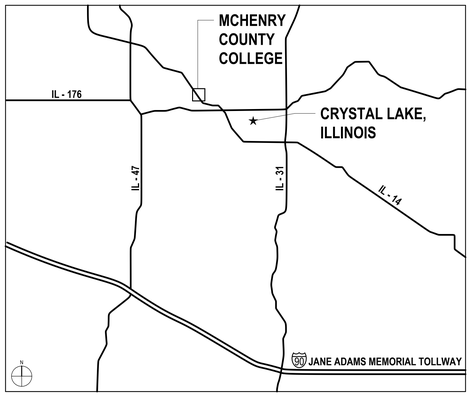
ABBREVIATIONS

AP	ACCESS PANEL
ACOUST	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJACENT
A.F.F.	ABOVE FINISH FLOOR
AGGR	AGGREGATE
A/C	AIR CONDITIONING
ALT	ALTERNATE
ALUM	ALUMINUM
L	ANGLE
APPD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL OR ARCHITECT
AD	AREA DRAIN
ASB	ASBESTOS
ASPH	ASPHALT
A/V	AUDIO VISUAL
BSMT	BASEMENT
BRG	BEARING
BM	BEAM
BTW	BETWEEN
BITUM	BITUMINOUS
BLK	BLOCK
BLKG	BLOCKING
BD	BOARD
BRK	BRICK
BLDG	BUILDING
CAB	CABINET
CIP	CAST IN PLACE
CIPC	CAST IN PLACE CONCRETE
CI	CURB INLET
CB	CATCH BASIN
CLG	CEILING
CTR	CENTER
CJ	CONTROL JOINT
CL	CENTER LINE
CPT	CARPET
CT	CERAMIC TILE
CLR	CLEAR
CLO	CLOSET
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CM	CONSTRUCTION MANAGER
CONT	CONTINUOUS OR CONTINUE
CONTR	CONTRACTOR
CK	CORK
CORR	CORRIDOR
CNSK	COUNTERSUNK
CRS	COURSE
DEMO	DEMOLISH OR DEMOLITION
DEPT	DEPARTMENT
DL	DEAD LOAD
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DR	DOOR
DO	DOOR OPENING
DBL	DOUBLE
DS	DOWNSPOUT
DRW	DRAWER
DWG	DRAWING
DF	DRINKING FOUNTAIN
DS	DRY STANDPIPE
DWT	DETECTABLE WARNING TILE
E	EAST
EA	EACH
EIFS	EXTERIOR INSULATION FINISH SYSTEM
ELEC	ELECTRICAL
ETC	ELECTRICAL TRADES CONTRACTOR
EWC	ELECTRICAL WATER COOLER
EP	ELECTRICAL PANEL BOARD
EL	ELEVATION
ELEV	ELEVATION
ELVTR	ELEVATOR
ENCL	ENCLOSURE
EMER	EMERGENCY
EP PT	EPOXY PAINT
EPF	EPOXY FLOORING
EQ	EQUAL
EQPMT	EQUIPMENT
EXSTG	EXISTING
EXP	EXPANSION
EXP JT	EXPANSION JOINT
EXPD	EXPOSED
EXTR	EXTERIOR
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOS	FACE OF STUD
FR	FIBERGLASS REINFORCED PANEL
FIN	FINISH OR FINISHED
FA	FIRE ALARM
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FPRF	FIREPROOF
FB	FLAT BAR STOCK
FL	FLOOR
FD	FLOOR DRAIN
FLUOR	FLUORESCENT
FT	FOOT OR FEET
FTG	FOOTING
FDN	FOUNDATION
FRM	FRAME
FRMG	FRAMING
FS	FULL SIZE
FURR	FURRING
FUTR	FUTURE
FW	FABRIC WALLCOVERING
GA	GAUGE
GALV	GALVANIZED
GEN	GENERAL
GC	GENERAL CONTRACTOR
GTC	GENERAL TRADES CONTRACTOR
GL	GLASS OR GLAZING
GD	GRADE
GND	GROUND
GYP BD	GYPSUM BOARD
HDW	HARDWARE
HDWD	HARDWOOD
HDR	HEADER
HTG	HEATING
HVAC	HEATING, VENTILATING, AIR CONDITIONING
HT	HEIGHT
HC	HOLLOW CORE
HM	HOLLOW METAL
HMF	HOLLOW METAL FRAME
HORZ	HORIZONTAL
HB	HOSE BIB
HR	HOUR
INC	INCLUDE
I.D.	INSIDE DIAMETER
INSUL	INSULATION
INTR	INTERIOR
INV	INVERT
JAN	JANITOR
JT	JOINT
KIT	KITCHEN
LAM	LAMINATE
LAV	LAVATORY
LH	LEFT HAND
LGTH	LENGTH
LT	LIGHT
LWC	LIGHT WEIGHT CONCRETE
LTL	LINTEL
LN	LINOLEUM
LL	LIVE LOAD
MH	MANHOLE
MFR	MANUFACTURER
MAS	MASONRY
MO	MASONRY OPENING
MTL	METAL
MAX	MAXIMUM
MECH	MECHANICAL
MTC	MECHANICAL TRADES CONTRACTOR
MEMB	MEMBRANE
MT	MARBLE TILE
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNDED
MTG	MOUNTING
MUL	MULLION
NOM	NOMINAL
N	NORTH
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO OR #	NUMBER
OBS	OBSCURE
OFF	OFFICE
O.C.	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
O.D.	OUTSIDE DIAMETER
OA	OVERALL
OFD	OVERFLOW DRAIN
PT	PAINT
PTD	PAINTED
PR	PAIR
PNL	PANEL
PBD	PARTICLE BOARD
PTN	PARTITION
PLAS	PLASTIC
P-LAM	PLASTIC LAMINATE
PL	PLATE
PTC	PLUMBING TRADES CONTRACTOR
PLYWD	PLYWOOD
PSI	POUNDS PER SQUARE INCH
PC	PRECAST
PCC	PRECAST CONCRETE
QT	QUARRY TILE
R	RADIUS
RWL	RAIN WATER LEADER
RFRG	REFRIGERATOR
RGTR	REGISTER
REINF	REINFORCED
RQD	REQUIRED
RES	RESILIENT
RA	RETURN AIR
RAG	RETURN AIR GRILLE
RH	RIGHT HAND
ROW	RIGHT OF WAY
R	RISER
RD	ROOF DRAIN
RM	ROOM
R.O.	ROUGH OPENING
RB	RUBBER BASE
SECT	SECTION
SK	SINK
SCHED	SCHEDULE
SHTG	SHEATHING
SHT	SHEET
SV	SHEET VINYL
SHWR	SHOWER
SIM	SIMILAR
SC	SEALED CONCRETE
SPM	SINGLE PLY MEMBRANE
S	SOUTH
SFRM	SPRAY APPLIED FIRE RESISTIVE MATERIAL
SPEC	SPECIFICATION
SQ	SQUARE
S.S.	STAINLESS STEEL
STD	STANDARD
STA	STATION
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE OR STRUCTURAL
SUSP	SUSPENDED
SAT	SUSPENDED ACOUSTICAL TILE
SYM	SYMMETRICAL
TEL	TELEPHONE
TV	TELEVISION
TRZ	TERRAZZO
TB	TILE BASE
THK	THICK
T.O.C.	TOP OF CURB
TOP	TOP OF PAVEMENT
TOW	TOP OF WALL
T&G	TONGUE AND GROOVE
TYP	TYPICAL
UNF	UNFINISHED
U.N.O.	UNLESS NOTED OTHERWISE
UR	URINAL
VB	VINYL BASE
VERT	VERTICAL
VEST	VESTIBULE
VCT	VINYL COMPOSITION TILE
VW	VINYL WALLCOVERING
WSCT	WAINSCOT
WC	WATER CLOSET
WLK	WALK-OFF MAT
WR	WATER RESISTANT
WT	WALL TILE OR WEIGHT
W	WEST
W	WIDE FLANGE "W16x21"
W	WIDTH
W/	WITH
W/O	WITHOUT
WD	WOOD
WDP	WOOD PANEL
X	EXISTING

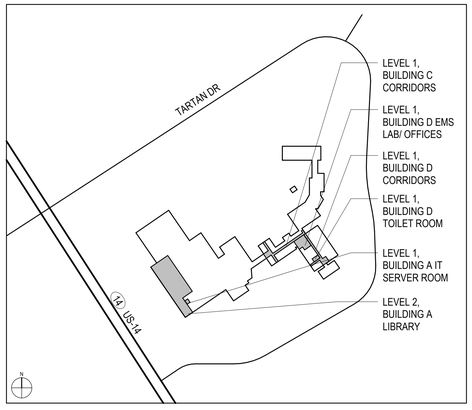
STATE LOCATION MAP



AREA MAP

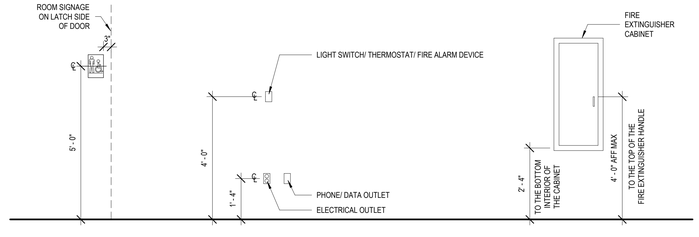


CAMPUS MAP



SHEET INDEX

GENERAL	
G1.01	SHEET INDEX, ABBREVIATIONS, SYMBOLS & NOTES
ARCHITECTURAL	
A0.10	OVERALL PLANS
AD1.10	DEMOLITION PLANS
AD1.11	DEMOLITION PLANS
AD1.12	DEMOLITION PLANS
AD1.20	DEMOLITION PLANS
AD2.10	DEMOLITION RCP PLANS
AD2.11	DEMOLITION RCP PLANS
AD2.20	DEMOLITION RCP PLANS
A1.11	FLOOR PLANS
A1.12	FLOOR PLANS
A1.20	FLOOR PLANS
A2.10	REFLECTED CEILING PLANS
A2.11	REFLECTED CEILING PLANS
A2.20	REFLECTED CEILING PLANS
A7.01	PLAN DETAILS
A7.02	PLAN DETAILS AND WALL SECTIONS
A7.51	CEILING DETAILS
A9.01	INTERIOR ELEVATIONS
A9.02	INTERIOR ELEVATIONS
A9.03	INTERIOR ELEVATIONS
A9.51	MILLWORK PLANS AND DETAILS
A9.52	MILLWORK PLANS AND DETAILS
A9.53	MILLWORK PLANS AND DETAILS
A9.54	MILLWORK PLANS AND DETAILS
A10.00	DOOR SCHEDULE, WINDOW ELEV, AND WALL TYPES
A11.10	FINISH PLANS
A11.11	FINISH PLANS
A11.20	FINISH PLANS
A12.11	FURNITURE PLANS (FOR REFERENCE ONLY)
A12.20	FURNITURE PLANS (FOR REFERENCE ONLY)
MECHANICAL	
ME1.00	MECH./ ELEC. NOTES AND DETAILS
HVD1.12	IT / SERVER ROOM HVAC DEMOLITION PLANS
HVD1.20	LIBRARY HVAC DEMOLITION VENTILATION PLAN
HVD1.21	LIBRARY HVAC DEMOLITION PIPING PLAN
HV1.11	EMS LAB AND TOILET TOOM HVAC PLANS
HV1.12	IT / SERVER ROOM HVAC PLANS
HV1.20	LIBRARY HVAC VENTILATION PLAN
HV1.21	LIBRARY HVAC PIPING PLAN
HV4.00	HVAC DETAILS, NOTES, SYMBOLS AND ABBREVIATIONS
HV4.01	HVAC DETAILS
HV5.00	HVAC SCHEDULES
PLUMBING	
PD1.11	FIRST FLOOR PLUMBING DEMOLITION PLANS
P1.10	FIRST FLOOR PLUMBING PLANS
P1.20	LIBRARY PLUMBING PLANS
P2.10	PLUMBING GENERAL NOTES
FIRE PROTECTION	
FP1.11	FIRST FLOOR FIRE PROTECTION PLANS
FP1.12	FIRST FLOOR FIRE PROTECTION PLANS
FP1.13	LIBRARY FIRE PROTECTION PLANS
FP2.10	FIRE PROTECTION GENERAL NOTES
ELECTRICAL	
E0.12	ELECTRICAL OVERALL PLANS
ED1.10	ELECTRICAL DEMOLITION PLANS
ED1.11	ELECTRICAL DEMOLITION PLANS
ED1.12	ELECTRICAL DEMOLITION PLANS
ED1.20	ELECTRICAL DEMOLITION PLANS
E1.10	ELECTRICAL PLANS
E1.11	ELECTRICAL PLANS
E1.12	ELECTRICAL PLANS
E1.20	ELECTRICAL PLANS
E2.10	LIGHTING PLANS
E2.11	LIGHTING PLANS
E2.20	LIGHTING PLANS
E3.00	ELECTRICAL RISER DIAGRAMS
E4.00	ELECTRICAL SCHEDULES
E4.10	ELECTRICAL SCHEDULES
E4.20	ELECTRICAL SCHEDULES
E4.30	ELECTRICAL SCHEDULES
E5.00	ELECTRICAL SYMBOL LIST AND ABBREVIATIONS
E5.10	ELECTRICAL NOTES
E6.00	ELECTRICAL DETAILS
E6.10	ELECTRICAL DETAILS
E6.20	ELECTRICAL DETAILS
E-501	ELECTRICAL SCHEDULES



NOTE: IN THE EVENT OF A CONFLICT BETWEEN DIMENSIONS SHOWN ON THIS DRAWING AND ANY OTHER ARCHITECTURAL, ELECTRICAL, OR MECHANICAL SHEETS OR SPECIFICATIONS, NOTIFY ARCHITECT OF DISCREPANCY.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

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20/10 ENGINEERING GROUP, LLC
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KEY PLAN:

SHEET STATUS: 10/17/2024

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:

SHEET INDEX, ABBREVIATIONS, SYMBOLS & NOTES

SHEET NUMBER:

G1.01

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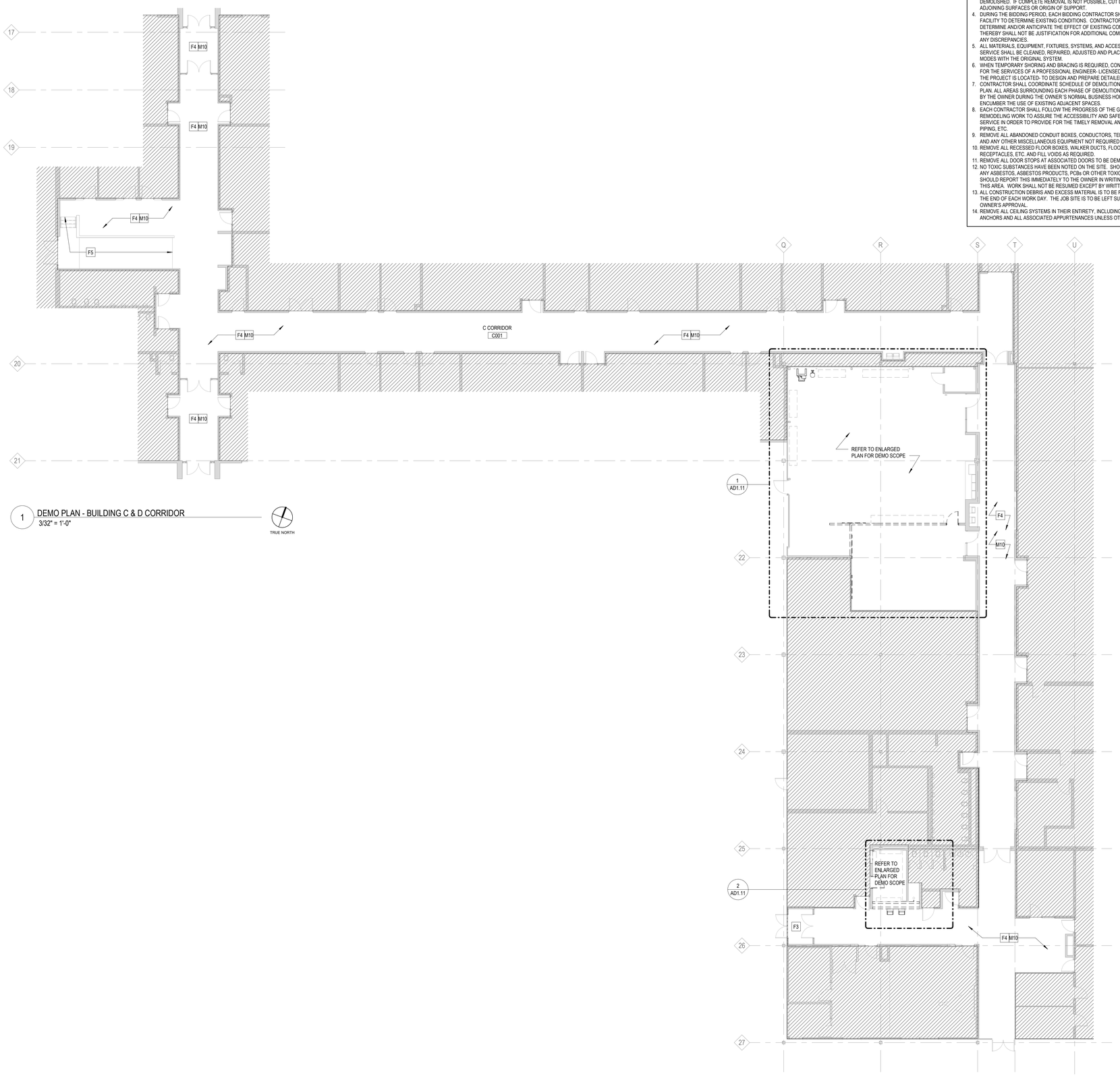

1 DEMO PLAN - BUILDING C & D CORRIDOR
3/32" = 1'-0"

TRUE NORTH

DEMO GENERAL NOTES:

1. PRIOR TO AND DURING ANY DEMOLITION THE CONTRACTOR SHALL VERIFY AND MAINTAIN THE BUILDING'S STRUCTURAL INTEGRITY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AS REQUIRED TO INSTALL ALL NEW WORK. REPAIR, PATCH AND FINISH EXISTING FLOORS, WALLS AND CEILINGS DESIGNATED TO REMAIN TO MATCH EXISTING CONDITIONS.
3. REMOVE ALL HANGERS, SUSPENSION SYSTEMS, SUPPORT FRAMING, EQUIPMENT PADS, ANCHORS, ATTACHMENT HARDWARE AND RELATED APPURTENANCES CONNECTED WITH THE WORK TO BE DEMOLISHED. IF COMPLETE REMOVAL IS NOT POSSIBLE, CUT DEVICES AS CLOSE AS POSSIBLE TO ADJOINING SURFACES OR ORIGIN OF SUPPORT.
4. DURING THE BIDDING PERIOD, EACH BIDDING CONTRACTOR SHALL VISIT THE SITE AND THE FACILITY TO DETERMINE EXISTING CONDITIONS. CONTRACTOR 'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND THE WORK INVOLVED THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
5. ALL MATERIALS, EQUIPMENT, FIXTURES, SYSTEMS, AND ACCESSORIES WHICH ARE TO REMAIN IN SERVICE SHALL BE CLEANED, REPAIRED, ADJUSTED AND PLACED INTO PROPER OPERATIONS IN ALL MODES WITH THE ORIGINAL SYSTEM.
6. WHEN TEMPORARY SHORING AND BRACING IS REQUIRED, CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A PROFESSIONAL ENGINEER- LICENSED TO PRACTICE IN THE STATE WHERE THE PROJECT IS LOCATED- TO DESIGN AND PREPARE DETAILED DRAWINGS.
7. CONTRACTOR SHALL COORDINATE SCHEDULE OF DEMOLITION WORK WITH THE OVERALL PHASING PLAN. ALL AREAS SURROUNDING EACH PHASE OF DEMOLITION/CONSTRUCTION WILL BE OCCUPIED BY THE OWNER DURING THE OWNER 'S NORMAL BUSINESS HOURS. DEMOLITION WORK SHALL NOT ENCUMBER THE USE OF EXISTING ADJACENT SPACES.
8. EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE GENERAL DEMOLITION AND REMODELING WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS IN SERVICE IN ORDER TO PROVIDE FOR THE TIMELY REMOVAL AND/OR RELOCATION OF EQUIPMENT, PIPING, ETC.
9. REMOVE ALL ABANDONED CONDUIT BOXES, CONDUCTORS, TELEPHONE LINES, ELECTRIC PANELS, AND ANY OTHER MISCELLANEOUS EQUIPMENT NOT REQUIRED FOR THE NEW FACILITY.
10. REMOVE ALL RECESSED FLOOR BOXES, WALKER DUCTS, FLOOR SINKS, HUB DRAINS, ELECTRICAL RECEPTACLES, ETC. AND FILL VOIDS AS REQUIRED.
11. REMOVE ALL DOOR STOPS AT ASSOCIATED DOORS TO BE DEMOLISHED.
12. NO TOXIC SUBSTANCES HAVE BEEN NOTED ON THE SITE. SHOULD THE CONTRACTOR ENCOUNTER ANY ASBESTOS, ASBESTOS PRODUCTS, PCBs OR OTHER TOXIC SUBSTANCES, THE CONTRACTOR SHOULD REPORT THIS IMMEDIATELY TO THE OWNER IN WRITING PRIOR TO CONTINUING WORK IN THIS AREA. WORK SHALL NOT BE RESUMED EXCEPT BY WRITTEN AUTHORIZATION OR AGREEMENT.
13. ALL CONSTRUCTION DEBRIS AND EXCESS MATERIAL IS TO BE REMOVED BY THE CONTRACTOR AT THE END OF EACH WORK DAY. THE JOB SITE IS TO BE LEFT SUFFICIENTLY CLEAN AS TO WARRANT OWNER 'S APPROVAL.
14. REMOVE ALL CEILING SYSTEMS IN THEIR ENTIRETY, INCLUDING TILE, GRID, SUSPENSION WIRING, ANCHORS AND ALL ASSOCIATED APPURTENANCES UNLESS OTHERWISE NOTED.

DEMO SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- HATCH INDICATES AREA NOT IN SCOPE
- GYPSUM BOARD OR PLASTER PARTITION TO BE REMOVED
- CMU PARTITION TO BE REMOVED
- FRAME AND DOOR TO BE REMOVED, SALVAGE HARDWARE TO OWNER
- SUSPENDED ACOUSTICAL TILE CEILING TO BE REMOVED
- SUSPENDED ACOUSTICAL TILE CEILING TO REMAIN
- GYPSUM BOARD OR PLASTER CEILING TO BE REMOVED
- GYPSUM BOARD OR PLASTER CEILING TO REMAIN
- RECESSED 2'x4' LAY-IN LIGHT FIXTURE TO BE REMOVED
- RECESSED 2'x2' LAY-IN LIGHT FIXTURE TO BE REMOVED
- RECESSED 2'x4' LAY-IN LIGHT FIXTURE TO REMAIN
- RECESSED 2'x2' LAY-IN LIGHT FIXTURE TO REMAIN
- LINEAR LIGHT FIXTURE TO BE REMOVED
- REMOVE MOTORIZED SCREEN - SALVAGE TO OWNER
- REMOVE CEILING MOUNTED PROJECTOR - SALVAGE TO OWNER
- RETURN AIR GRILLE TO BE REMOVED
- SUPPLY AIR GRILLE TO BE REMOVED
- RETURN AIR GRILLE TO REMAIN
- SUPPLY AIR GRILLE TO REMAIN

DEMO REFERENCED NOTES:

X

FLOOR DEMOLITION KEYED NOTES

F1. REMOVE FLOOR / WALL WIREMOLD SYSTEM COMPLETE, INCLUDING ALL WIRING AND ACCESSORIES. PATCH AND PREP EXISTING WALL AS REQUIRED FOR NEW WORK.
F2. REMOVE EXISTING POWER / DATA VERTICAL UTILITY CHASE, INCLUDING ALL WIRING AND MOUNTING ACCESSORIES COMPLETE.
F3. REMOVE CARPET, BACKER, TRANSITIONS, RESILIENT BASE AND ALL ADHESIVES COMPLETE. CLEAN AND PREP FLOOR SLAB AS REQUIRED FOR NEW FLOORING FINISH.
F4. REMOVE VCT FLOORING, TRANSITIONS, RESILIENT BASE, AND ALL ADHESIVES COMPLETE. CLEAN AND PREP FLOOR SLAB AS REQUIRED FOR NEW FLOORING FINISH.
F5. EXISTING RESILIENT RAMP AND STAIR TREADS TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
F6. HATCH INDICATES PROPOSED AREA OF SLAB REMOVAL AS REQUIRED FOR PLUMBING WORK. BACKFILL AS REQUIRED AN DINFILL PER DETAIL 11/A7.02.

WALL DEMOLITION KEYED NOTES

W1. REMOVE CMU AS REQUIRED FOR NEW OPENING. CUT WHOLE BLOCKS BACK AND INTALL NEW CMU AS REQUIRED FOR SOLID JAMBS.
W2. REMOVE WALL COMPLETE TO DECK (+/- 18') ABOVE FOR EXTENTS INDICATED. PATCH AND PREP ADJACENT WALLS TO REMAIN FOR NEW WORK.
W3. EXISTING FIRE EXTINGUISHER TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
W4. REMOVE HOLLOW METAL DOOR AND WINDOW SYSTEM COMPLETE.
W5. EXISTING MECHANICAL/ ELECTRICAL EQUIPMENT TO REMAIN - PROTECT THROUGHOUT CONSTRUCTION.
W6. REMOVE EXISTING MARKERBOARD, CORK BOARD, PROJECTOR SCREEN, OR MISC WALL MOUNTED SHELVING COMPLETE. PATCH AND PREP EXISTING WALL AS REQUIRED FOR NEW WORK.

CEILING DEMOLITION KEYED NOTES

C1A. REMOVE EXISTING SUSPENDED CEILING SYSTEM COMPLETE, INCLUDING ALL ACCESSORIES, SUSPENSION WIRES, CLIPS, ETC. TO EXTENTS SHOWN.
C1B. NOT USED.
C1C. REMOVE EXISTING SUSPENDED CEILING SYSTEM COMPLETE, INCLUDING ALL GRILLES / REGISTERS, ACCESSORIES, SUSPENSION WIRES, CLIPS, ETC COMPLETE TO EXTENTS INDICATED. REMOVE ALL LIGHTING / DEVICES AND SALVAGE FOR REINSTALLATION IN NEW CEILING. ALL SPRINKLERS TO BE LEFT EXISTING TO REMAIN AND PROTECTED THROUGHOUT CONSTRUCTION. REMOVE SPRINKLER COVERPLATES AND REINSTALL IN NEW CEILING. REMOVE AND SALVAGE ALL FULLY INTACT, NON-DAMAGED CEILING TILES AND TURN OVER TO OWNER FOR ATTIC STOCK.
C1D. REMOVE ALL CEILING TILES, LIGHTING, AND DIFFUSERS / REGISTERS COMPLETE. LEAVE GRID INTACT AND PROTECT AS REQUIRED FOR NEW WORK. REMOVE ALL DEVICES AND SALVAGE FOR REINSTALLATION IN NEW CEILING TILES. LEAVE EXISTING SPRINKLER HEADS TO REMAIN, U.N.O. ON FIRE PROTECTION DRAWINGS.
C2. EXISTING CEILING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION AND TIE INTO NEW CEILING SYSTEM AS REQUIRED.
C3. REMOVE TRACK LIGHTING SYSTEM COMPLETE. PATCH AND PREP CEILING AS REQUIRED FOR NEW LIGHT FIXTURE INSTALLATION (REFER TO ELEC).
C4. REMOVE EXISTING BLINDS COMPLETE. PREP WALL / CEILING AS REQUIRED FOR NEW WORK.
C5. REMOVE GYP. CEILING AND LIGHT FIXTURES COMPLETE TO EXTENTS INDICATED.
C6. REMOVE SUSPENDED CEILING SYSTEM COMPLETE AS REQUIRED FOR MECHANICAL DUCT REPLACEMENT. SALVAGE ALL UN-DAMAGED TILES, LIGHTS, AND DEVICES FOR REINSTALLATION IN NEW WORK. COORDINATE SCHEDULING OF NEW WORK WITH OWNER PRIOR TO COMMENCEMENT.

MISCELLANEOUS DEMOLITION KEYED NOTES

M1. REMOVE EXISTING COUNTERTOPS, SINKS, SHELVES, BOOKCASES, AND BASE CABINETS COMPLETE.
M2. REMOVE EXISTING S HOWER HEAD, CONTROLS, PIPING AN D SHOWER ACCESSORIES COMPLETE.
M3. EXISTING MECHANICAL AND PLUMBING SYSTEM (INCLUDING ALL ASSOCIATED PIPING, DUCT, UTILITIES, AND ACCESSORIES) TO BE REMOVED COMPLETE. REFER TO MEP DRAWINGS FOR ADDITIONAL SCOPE.
M4A. PROVIDE FULL-HEIGHT DUST ENCLOSURE TO EXISTING CEILING ABOVE THROUGHOUT THE DURATION OF CONSTRUCTION. PROVIDE ACCESS LOCATIONS AS REQUIRED FOR CONTRACTOR AND OWNER ACCESS.
M4B. EXISTING DOOR TO REMAIN. SEAL AT THE BEGINNING OF CONSTRUCTION FOR DUST CONTROL AND PROTECT THROUGHOUT CONSTRUCTION.
M5. REMOVE EXISTING DRINKING FOUNTAINS COMPLETE.
M6. EXISTING SHOWER DRAIN TO REMAIN. REFER TO PLUMBING.
M7. NOT USED.
M8. EXISTING OVERHEAD COILING GARAGE DOOR TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
M9. REMOVE SHOWER CURTAIN, ROD, AND SOLID SURFACE TRIM COMPLETE.
M10. CORRIDOR TO REMAIN OPEN AND ACCESSIBLE THROUGHOUT CONSTRUCTION. THE GC IS RESPONSIBLE FOR COORDINATING A PHASED SEQUENCE OF DEMO AND NEW WORK WITH THE OWNER TO MAINTAIN CONTINUED OPERATION OF THE CORRIDOR. REFER TO SPECS FOR ADDITIONAL DETAILS.
M11. EXISTING IT CLOSET - EQUIPMENT TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION - PROVIDE DUST PROTECTION OVER DOOR AND COORDINATE WITH OWNER IF ANY TEMP POWER OR VENTILATION IS REQUIRED WITH NEW WORK SCOPE.
M12. REMOVE FIRE EXTINGUISHER AND ASSOCIATED WALL MOUNT. TURN OVER TO OWNER.
M13. REMOVE ALL UTILITIES AND UTILITY SUPPORT SYSTEMS (UNISTRUT, CONDUIT, HANGERS, PEDESTALS, ETC) SERVING OLD EQUIPMENT COMPLETE IN THE AREA INDICATED

dka

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
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DKA PROJECT NO: 24-031

KEY PLAN:

SHEET STATUS: 10/17/2024

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

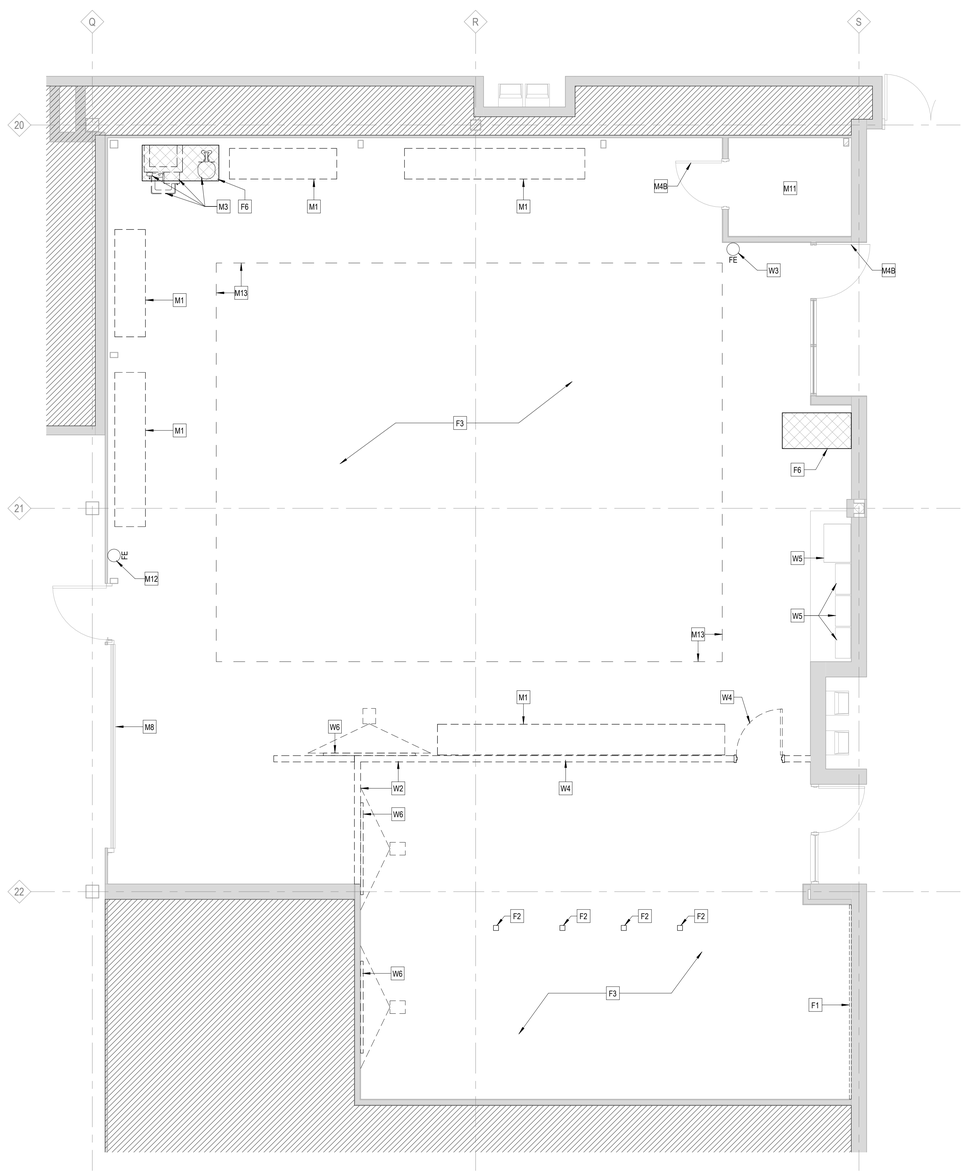
SHEET TITLE:

DEMOLITION PLANS

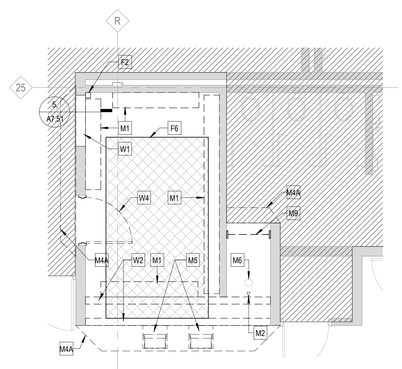
SHEET NUMBER:

AD1.10

10/17/2024 3:52:23 PM



1 DEMO PLAN - EMS
1/4" = 1'-0"
TRUE NORTH



2 DEMO PLAN - TOILET
1/4" = 1'-0"
TRUE NORTH

DEMO GENERAL NOTES:

1. PRIOR TO AND DURING ANY DEMOLITION THE CONTRACTOR SHALL VERIFY AND MAINTAIN THE BUILDING'S STRUCTURAL INTEGRITY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AS REQUIRED TO INSTALL ALL NEW WORK. REPAIR, PATCH AND FINISH EXISTING FLOORS, WALLS AND CEILINGS DESIGNATED TO REMAIN TO MATCH EXISTING CONDITIONS.
3. REMOVE ALL HANGERS, SUSPENSION SYSTEMS, SUPPORT FRAMING, EQUIPMENT PADS, ANCHORS, ATTACHMENT HARDWARE AND RELATED APPURTENANCES CONNECTED WITH THE WORK TO BE DEMOLISHED. IF COMPLETE REMOVAL IS NOT POSSIBLE, CUT DEVICES AS CLOSE AS POSSIBLE TO ADJOINING SURFACES OR ORIGIN OF SUPPORT.
4. DURING THE BIDDING PERIOD, EACH BIDDING CONTRACTOR SHALL VISIT THE SITE AND THE FACILITY TO DETERMINE EXISTING CONDITIONS. CONTRACTOR 'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND THE WORK INVOLVED THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
5. ALL MATERIALS, EQUIPMENT, FIXTURES, SYSTEMS, AND ACCESSORIES WHICH ARE TO REMAIN IN SERVICE SHALL BE CLEANED, REPAIRED, ADJUSTED AND PLACED INTO PROPER OPERATIONS IN ALL MODES WITH THE ORIGINAL SYSTEM.
6. WHEN TEMPORARY SHORING AND BRACING IS REQUIRED, CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A PROFESSIONAL ENGINEER- LICENSED TO PRACTICE IN THE STATE WHERE THE PROJECT IS LOCATED- TO DESIGN AND PREPARE DETAILED DRAWINGS.
7. CONTRACTOR SHALL COORDINATE SCHEDULE OF DEMOLITION WORK WITH THE OVERALL PHASING PLAN. ALL AREAS SURROUNDING EACH PHASE OF DEMOLITION/CONSTRUCTION WILL BE OCCUPIED BY THE OWNER DURING THE OWNER 'S NORMAL BUSINESS HOURS. DEMOLITION WORK SHALL NOT ENCUMBER THE USE OF EXISTING ADJACENT SPACES.
8. EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE GENERAL DEMOLITION AND REMODELING WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS IN SERVICE IN ORDER TO PROVIDE FOR THE TIMELY REMOVAL AND/OR RELOCATION OF EQUIPMENT, PIPING, ETC.
9. REMOVE ALL ABANDONED CONDUIT BOXES, CONDUCTORS, TELEPHONE LINES, ELECTRIC PANELS, AND ANY OTHER MISCELLANEOUS EQUIPMENT NOT REQUIRED FOR THE NEW FACILITY.
10. REMOVE ALL RECESSED FLOOR BOXES, WALKER DUCTS, FLOOR SINKS, HUB DRAINS, ELECTRICAL RECEPTACLES, ETC. AND FILL VOIDS AS REQUIRED.
11. REMOVE ALL DOOR STOPS AT ASSOCIATED DOORS TO BE DEMOLISHED.
12. NO TOXIC SUBSTANCES HAVE BEEN NOTED ON THE SITE. SHOULD THE CONTRACTOR ENCOUNTER ANY ASBESTOS, ASBESTOS PRODUCTS, PCBs OR OTHER TOXIC SUBSTANCES, THE CONTRACTOR SHOULD REPORT THIS IMMEDIATELY TO THE OWNER IN WRITING PRIOR TO CONTINUING WORK IN THIS AREA. WORK SHALL NOT BE RESUMED EXCEPT BY WRITTEN AUTHORIZATION OR AGREEMENT.
13. ALL CONSTRUCTION DEBRIS AND EXCESS MATERIAL IS TO BE REMOVED BY THE CONTRACTOR AT THE END OF EACH WORK DAY. THE JOB SITE IS TO BE LEFT SUFFICIENTLY CLEAN AS TO WARRANT OWNER'S APPROVAL.
14. REMOVE ALL CEILING SYSTEMS IN THEIR ENTIRETY, INCLUDING TILE, GRID, SUSPENSION WIRING, ANCHORS AND ALL ASSOCIATED APPURTENANCES UNLESS OTHERWISE NOTED.

DEMO SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- HATCH INDICATES AREA NOT IN SCOPE
- GYPSUM BOARD OR PLASTER PARTITION TO BE REMOVED
- CMU PARTITION TO BE REMOVED
- FRAME AND DOOR TO BE REMOVED, SALVAGE HARDWARE TO OWNER
- SUSPENDED ACOUSTICAL TILE CEILING TO BE REMOVED
- SUSPENDED ACOUSTICAL TILE CEILING TO REMAIN
- GYPSUM BOARD OR PLASTER CEILING TO BE REMOVED
- GYPSUM BOARD OR PLASTER CEILING TO REMAIN
- RECESSED 2'x4' LAY-IN LIGHT FIXTURE TO BE REMOVED
- RECESSED 2'x2' LAY-IN LIGHT FIXTURE TO BE REMOVED
- RECESSED 2'x4' LAY-IN LIGHT FIXTURE TO REMAIN
- RECESSED 2'x2' LAY-IN LIGHT FIXTURE TO REMAIN
- LINEAR LIGHT FIXTURE TO BE REMOVED
- REMOVE MOTORIZED SCREEN - SALVAGE TO OWNER
- REMOVE CEILING MOUNTED PROJECTOR - SALVAGE TO OWNER
- RETURN AIR GRILLE TO BE REMOVED
- SUPPLY AIR GRILLE TO BE REMOVED
- RETURN AIR GRILLE TO REMAIN
- SUPPLY AIR GRILLE TO REMAIN

DEMO REFERENCED NOTES:

FLOOR DEMOLITION KEYED NOTES

F1. REMOVE FLOOR / WALL WIREMOLD SYSTEM COMPLETE, INCLUDING ALL WIRING AND ACCESSORIES. PATCH AND PREP EXISTING WALL AS REQUIRED FOR NEW WORK.
F2. REMOVE EXISTING POWER / DATA VERTICAL UTILITY CHASE, INCLUDING ALL WIRING AND MOUNTING ACCESSORIES COMPLETE.
F3. REMOVE CARPET, BACKER, TRANSITIONS, RESILIENT BASE AND ALL ADHESIVES COMPLETE. CLEAN AND PREP FLOOR SLAB AS REQUIRED FOR NEW FLOORING FINISH.
F4. REMOVE VCT FLOORING, TRANSITIONS, RESILIENT BASE, AND ALL ADHESIVES COMPLETE. CLEAN AND PREP FLOOR SLAB AS REQUIRED FOR NEW FLOORING FINISH.
F5. EXISTING RESILIENT RAMP AND STAIR TREADS TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
F6. HATCH INDICATES PROPOSED AREA OF SLAB REMOVAL AS REQUIRED FOR PLUMBING WORK. BACKFILL AS REQUIRED AN DINFILL PER DETAIL 11/A7.02.

WALL DEMOLITION KEYED NOTES

W1. REMOVE CMU AS REQUIRED FOR NEW OPENING. CUT WHOLE BLOCKS BACK AND INTALL NEW CMU AS REQUIRED FOR SOLID JAMBS.
W2. REMOVE WALL COMPLETE TO DECK (+/- 18') ABOVE FOR EXTENTS INDICATED. PATCH AND PREP ADJACENT WALLS TO REMAIN FOR NEW WORK.
W3. EXISTING FIRE EXTINGUISHER TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
W4. REMOVE HOLLOW METAL DOOR AND WINDOW SYSTEM COMPLETE.
W5. EXISTING MECHANICAL/ ELECTRICAL EQUIPMENT TO REMAIN - PROTECT THROUGHOUT CONSTRUCTION.
W6. REMOVE EXISTING MARKERBOARD, CORK BOARD, PROJECTOR SCREEN, OR MISC WALL MOUNTED SHELVING COMPLETE. PATCH AND PREP EXISTING WALL AS REQUIRED FOR NEW WORK.

CEILING DEMOLITION KEYED NOTES

C1A. REMOVE EXISTING SUSPENDED CEILING SYSTEM COMPLETE, INCLUDING ALL ACCESSORIES, SUSPENSION WIRES, CLIPS, ETC, TO EXTENTS SHOWN.
C1B. NOT USED.
C1C. REMOVE EXISTING SUSPENDED CEILING SYSTEM COMPLETE, INCLUDING ALL GRILLES / REGISTERS, ACCESSORIES, SUSPENSION WIRES, CLIPS, ETC COMPLETE TO EXTENTS INDICATED. REMOVE ALL LIGHTING / DEVICES AND SALVAGE FOR REINSTALLATION IN NEW CEILING. ALL SPRINKLERS TO BE LEFT EXISTING TO REMAIN AND PROTECTED THROUGHOUT CONSTRUCTION. REMOVE SPRINKLER COVERPLATES AND REINSTALL IN NEW CEILING. REMOVE AND SALVAGE ALL FULLY INTACT, NON-DAMAGED CEILING TILES AND TURN OVER TO OWNER FOR ATTIC STOCK.
C1D. REMOVE ALL CEILING TILES, LIGHTING, AND DIFFUSERS / REGISTERS COMPLETE. LEAVE GRID INTACT AND PROTECT AS REQUIRED FOR NEW WORK. REMOVE ALL DEVICES AND SALVAGE FOR REINSTALLATION IN NEW CEILING TILES. LEAVE EXISTING SPRINKLER HEADS TO REMAIN, U.N.O. ON FIRE PROTECTION DRAWINGS.
C2. EXISTING CEILING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION AND TIE INTO NEW CEILING SYSTEM AS REQUIRED.
C3. REMOVE TRACK LIGHTING SYSTEM COMPLETE. PATCH AND PREP CEILING AS REQUIRED FOR NEW LIGHT FIXTURE INSTALLATION (REFER TO ELEC).
C4. REMOVE EXISTING BLINDS COMPLETE. PREP WALL / CEILING AS REQUIRED FOR NEW WORK.
C5. REMOVE GYP. CEILING AND LIGHT FIXTURES COMPLETE TO EXTENTS INDICATED.
C6. REMOVE SUSPENDED CEILING SYSTEM COMPLETE AS REQUIRED FOR MECHANICAL DUCT REPLACEMENT. SALVAGE ALL UN-DAMAGED TILES, LIGHTS, AND DEVICES FOR REINSTALLATION IN NEW WORK. COORDINATE SCHEDULING OF NEW WORK WITH OWNER PRIOR TO COMMENCEMENT.

MISCELLANEOUS DEMOLITION KEYED NOTES

M1. REMOVE EXISTING COUNTERTOPS, SINKS, SHELVES, BOOKCASES, AND BASE CABINETS COMPLETE.
M2. REMOVE EXISTING SHOWER HEAD, CONTROLS, PIPING AN D SHOWER ACCESSORIES COMPLETE.
M3. EXISTING MECHANICAL AND PLUMBING SYSTEM (INCLUDING ALL ASSOCIATED PIPING, DUCT, UTILITIES, AND ACCESSORIES) TO BE REMOVED COMPLETE. REFER TO MEP DRAWINGS FOR ADDITIONAL SCOPE.
M4A. PROVIDE FULL-HEIGHT DUST ENCLOSURE TO EXISTING CEILING ABOVE THROUGHOUT THE DURATION OF CONSTRUCTION. PROVIDE ACCESS LOCATIONS AS REQUIRED FOR CONTRACTOR AND OWNER ACCESS.
M4B. EXISTING DOOR TO REMAIN. SEAL AT THE BEGINNING OF CONSTRUCTION FOR DUST CONTROL AND PROTECT THROUGHOUT CONSTRUCTION.
M5. REMOVE EXISTING DRINKING FOUNTAINS COMPLETE.
M6. EXISTING SHOWER DRAIN TO REMAIN. REFER TO PLUMBING.
M7. NOT USED.
M8. EXISTING OVERHEAD COILING GARAGE DOOR TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
M9. REMOVE SHOWER CURTAIN, ROD, AND SOLID SURFACE TRIM COMPLETE.
M10. CORRIDOR TO REMAIN OPEN AND ACCESSIBLE THROUGHOUT CONSTRUCTION. THE GC IS RESPONSIBLE FOR COORDINATING A PHASED SEQUENCE OF DEMO AND NEW WORK WITH THE OWNER TO MAINTAIN CONTINUED OPERATION OF THE CORRIDOR. REFER TO SPECS FOR ADDITIONAL DETAILS.
M11. EXISTING IT CLOSET - EQUIPMENT TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION - PROVIDE DUST PROTECTION OVER DOOR AND COORDINATE WITH OWNER IF ANY TEMP POWER OR VENTILATION IS REQUIRED WITH NEW WORK SCOPE.
M12. REMOVE FIRE EXTINGUISHER AND ASSOCIATED WALL MOUNT. TURN OVER TO OWNER.
M13. REMOVE ALL UTILITIES AND UTILITY SUPPORT SYSTEMS (UNISTRUT, CONDUIT, HANGERS, PEDESTALS, ETC) SERVING OLD EQUIPMENT COMPLETE IN THE AREA INDICATED

dka

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO:24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
DEMOLITION PLANS

SHEET NUMBER:
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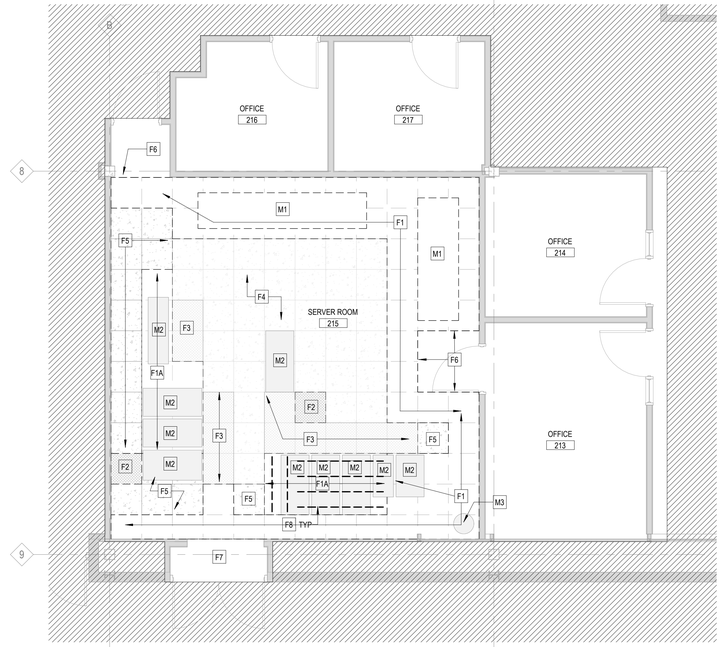
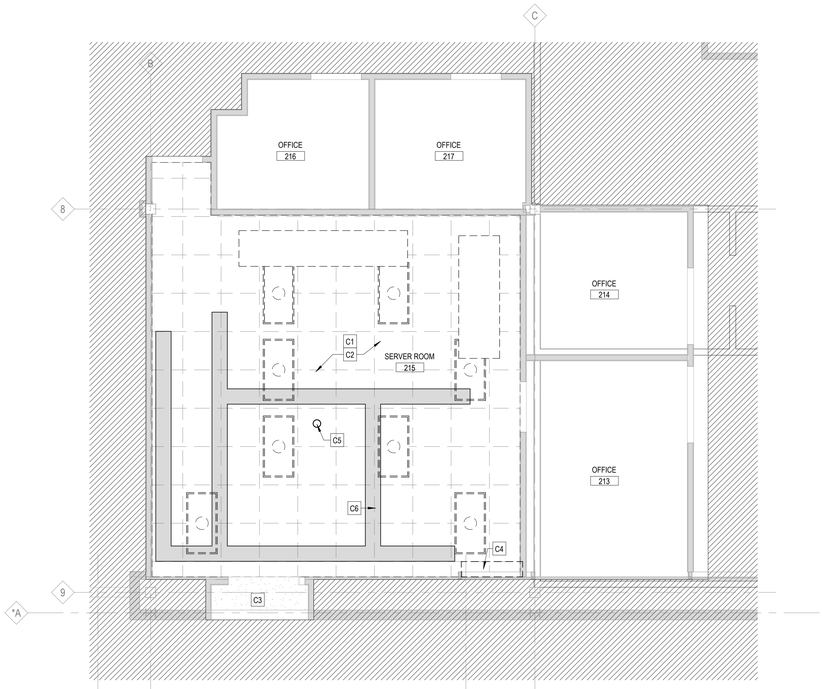


1 DEMO PLAN - SERVER ROOM
1/4" = 1'-0"

TRUE NORTH



2 DEMO REFLECTED CEILING PLAN - SERVER ROOM
1/4" = 1'-0"

TRUE NORTH

DEMO SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

GYPSUM BOARD OR PLASTER PARTITION TO BE REMOVED

CMU PARTITION TO BE REMOVED

FRAME AND DOOR TO BE REMOVED, SALVAGE HARDWARE TO OWNER

DEMO GENERAL NOTES:

1. PRIOR TO AND DURING ANY DEMOLITION THE CONTRACTOR SHALL VERIFY AND MAINTAIN THE BUILDING'S STRUCTURAL INTEGRITY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AS REQUIRED TO INSTALL ALL NEW WORK. REPAIR, PATCH AND FINISH EXISTING FLOORS, WALLS AND CEILINGS DESIGNATED TO REMAIN TO MATCH EXISTING CONDITIONS.
3. REMOVE ALL HANGERS, SUSPENSION SYSTEMS, SUPPORT FRAMING, EQUIPMENT PADS, ANCHORS, ATTACHMENT HARDWARE AND RELATED APPURTENANCES CONNECTED WITH THE WORK TO BE DEMOLISHED. IF COMPLETE REMOVAL IS NOT POSSIBLE, CUT DEVICES AS CLOSE AS POSSIBLE TO ADJOINING SURFACES OR ORIGIN OF SUPPORT.
4. DURING THE BIDDING PERIOD, EACH BIDDING CONTRACTOR SHALL VISIT THE SITE AND THE FACILITY TO DETERMINE EXISTING CONDITIONS. CONTRACTOR 'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND THE WORK INVOLVED THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
5. ALL MATERIALS, EQUIPMENT, FIXTURES, SYSTEMS, AND ACCESSORIES WHICH ARE TO REMAIN IN SERVICE SHALL BE CLEANED, REPAIRED, ADJUSTED AND PLACED INTO PROPER OPERATIONS IN ALL MODES WITH THE ORIGINAL SYSTEM.
6. WHEN TEMPORARY SHORING AND BRACING IS REQUIRED, CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A PROFESSIONAL ENGINEER- LICENSED TO PRACTICE IN THE STATE WHERE THE PROJECT IS LOCATED TO DESIGN AND PREPARE DETAILED DRAWINGS.
7. CONTRACTOR SHALL COORDINATE SCHEDULE OF DEMOLITION WORK WITH THE OVERALL PHASING PLAN. ALL AREAS SURROUNDING EACH PHASE OF DEMOLITION/CONSTRUCTION WILL BE OCCUPIED BY THE OWNER DURING THE OWNER'S NORMAL BUSINESS HOURS. DEMOLITION WORK SHALL NOT ENCUMBER THE USE OF EXISTING ADJACENT SPACES.
8. EACH CONTRACTOR SHALL FOLLOW THE PRGORESS OF THE GENERAL DEMOLITION AND REMODELING WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS IN SERVICE IN ORDER TO PROVIDE FOR THE TIMELY REMOVAL AND/OR RELOCATION OF EQUIPMENT, PIPING, ETC.
9. REMOVE ALL ABANDONED CONDUIT BOXES, CONDUCTORS, TELEPHONE LINES, ELECTRIC PANELS, AND ANY OTHER MISCELLANEOUS EQUIPMENT NOT REQUIRED FOR THE NEW FACILITY.
10. NO TOXIC SUBSTANCES HAVE BEEN NOTED ON THE SITE. SHOULD THE CONTRACTOR ENCOUNTER ANY ASBESTOS, ASBESTOS PRODUCTS, PCBS OR OTHER TOXIC SUBSTANCES, THE CONTRACTOR SHOULD REPORT THIS IMMEDIATELY TO THE OWNER IN WRITING PRIOR TO CONTINUING WORK IN THIS AREA. WORK SHALL NOT BE RESUMED EXCEPT BY WRITTEN AUTHORIZATION OR AGREEMENT.
11. ALL CONSTRUCTION DEBRIS AND EXCESS MATERIAL IS TO BE REMOVED BY THE CONTRACTOR AT THE END OF EACH WORK DAY. THE JOB SITE IS TO BE LEFT SUFFICIENTLY CLEAN AS TO WARRANT OWNER 'S APPROVAL.
12. REMOVE ALL CEILING SYSTEMS IN THEIR ENTIRETY, INCLUDING TILE, GRID, SUSPENSION WIRING, ANCHORS AND ALL ASSOCIATED APPURTENANCES.
13. ***EXISTING IT SERVER SYSTEM AND ALL ASSOCIATED EQUIPMENT, UTILITIES, CABLING, AND ACCESSORIES SHALL REMAIN OPERATIONAL THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE IT SYSTEM THROUGHOUT CONSTRUCTION WITHOUT ANY INTERRUPTION IN SERVICE. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY SUPPORT OR TEMPORARY SHIFT / RELOCATION OF IT EQUIPMENT AS REQUIRED FOR DEMO OR NEW WORK NOTED. ALL PROPOSED SUPPORT OR RELOCATION OF IT EQUIPMENT SHALL BE REVIEWED WITH OWNER PRIOR TO COMMENCEMENT.***

DEMO REFERENCED NOTES:

FLOOR DEMOLITION KEYED NOTES

F1. REMOVE EXISTING SOLID PLAM RAISED FLOOR SYSTEM COMPLETE, INCLUDING ALL ASSOCIATED SUPPORTS, FLOOR PANELS, SIDE PANELS, AND OTHER ACCESSORIES.

F1A. **BASE BID:** REMOVE EXISTING RAISED PLAM FLOOR SYSTEM COMPLETE, INCLUDING ALL ASSOCIATED SUPPORTS, FLOOR PANELS, SIDE PANELS, AND OTHER ACCESSORIES. CONTRACTOR SHALL BE RESPONSIBLE FOR LIFTING AND / OR SHIFTING EXISTING IT RACKS AND EQUIPMENT TO REMOVE AND REPLACE EXISTING RAISED FLOOR SYSTEM BELOW. REFER TO DEMO FLOOR PLAN GENERAL NOTE #13 AND NEW WORK FOR ADDITIONAL SCOPE REQUIREMENTS.
BID ALT #1: LEAVE EXISTING SOLID PLAM RAISED FLOOR SYSTEM TO REMAIN.

F2. REMOVE EXISTING STEEL VENTED FLOOR TILE AND ASSOCIATED SUPPORTS AND ACCESSORIES COMPLETE AT LOCATION INDICATED. SALVAGE VENTED TILE AND TURN OVER TO OWNER.

F2A. REMOVE EXISTING STEEL VENTED FLOOR TILE AND TURN OVER TO OWNER. LEAVE ALL SUPPORTS AND ACCESSORIES EXISTING TO REMAIN. REFER TO NEW WORK PLANS FOR NEW FLOOR TILE INSTALLATION.

F3. EXISTING STEEL VENTED FLOOR TILE SYSTEM, INCLUDING ALL SUPPORTS, FLOOR PANELS, AND OTHER ACCESSORIES, TO REMAIN.

F4. EXISTING STEEL SOLID FLOOR TILE SYSTEM, INCLUDING ALL SUPPORTS, FLOOR PANELS, AND OTHER ACCESSORIES, TO REMAIN.

F5. REMOVE EXISTING STEEL SOLID FLOOR TILE AND ASSOCIATED SUPPORTS AND ACCESSORIES COMPLETE AT LOCATION INDICATED. SALVAGE SOLID TILE FOR REINSTALLATION IN NEW WORK. REFER TO NEW WORK PLANS FOR LOCATION.

F6. REMOVE RAISED FLOOR SYSTEM SIDE PANELS COMPLETE.

F7. EXISTING SOLID PLAM RAISED FLOOR SYSTEM, INCLUDING ALL SUPPORTS, FLOOR PANELS, SIDE PANELS, AND OTHER ACCESSORIES, TO REMAIN.

F8. REMOVE UNDERFLOOR WOOD POST SUPPLEMENTAL SUPPORT SYSTEM COMPLETE.

WALL DEMOLITION KEYED NOTES

W1. [NOT USED]

CEILING DEMOLITION KEYED NOTES

C1. REMOVE EXISTING 30X60 SUSPENDED CEILING SYSTEM COMPLETE, INCLUDING ALL ACCESSORIES, SUSPENSION WIRES, CLIPS, ETC.

C2. EXISTING ELECTRICAL AND TECHNOLOGY SYSTEMS (INCLUDING BUT NOT LIMITED TO ALL CABLE, CONDUIT, J-HOOKS, CABLE TRAYS, WIRE MANAGEMENT, ETC) FOR IT SERVERS ARE TO BE PROTECTED, TEMPORARILY SUPPORTED, AND FULLY MAINTAINED THROUGHOUT CONSTRUCTION BY THE CONTRACTOR.

C3. EXISTING GYP CEILING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION AND TIE INTO NEW CEILING SYSTEM AS REQUIRED.

C4. PROPOSED ROUTING OF NEW MECHANICAL SYSTEM PIPING. CORE THROUGH 2ND FLOOR SLAB AND ROOF DECK AS REQUIRED FOR NEW WORK.

C5. EXISTING FM200 SPRINKLER SYSTEM HEAD. PROTECT COMPLETE SYSTEM THROUGHOUT DEMO AND NEW WORK. REFER TO PLUMB DRAWINGS FOR ADDITIONAL SCOPE.

C6. EXISTING CABLE TRAYS SUSPENDED FROM STRUCTURE ABOVE. PROTECT THROUGHOUT CONSTRUCTION. REFER TO NEW WORK FOR ANY MODIFICATIONS REQUIRED.

MISCELLANEOUS DEMOLITION KEYED NOTES

M1. EXISTING MECHANICAL SYSTEM (INCLUDING ALL ASSOCIATED PIPING, DUCT, UTILITIES, AND ACCESSORIES) TO BE REMOVED COMPLETE. REFER TO MEP DRAWINGS FOR ADDITIONAL SCOPE.

M2. EXISTING IT RACK / CABINET TO REMAIN. REFER TO DEMO FLOOR PLAN GENERAL NOTE 13 FOR ADDITIONAL SCOPE INFORMATION.

M3. EXISTING FM300 FIRE PROTECTION SYSTEM TO REMAIN. PROTECT COMPLETE SYSTEM THROUGHOUT DEMO AND NEW WORK. REFER TO PLUMB DRAWINGS FOR ADDITIONAL SCOPE.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

SHEET STATUS: 10/17/2024

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:

DEMOLITION PLANS

SHEET NUMBER:

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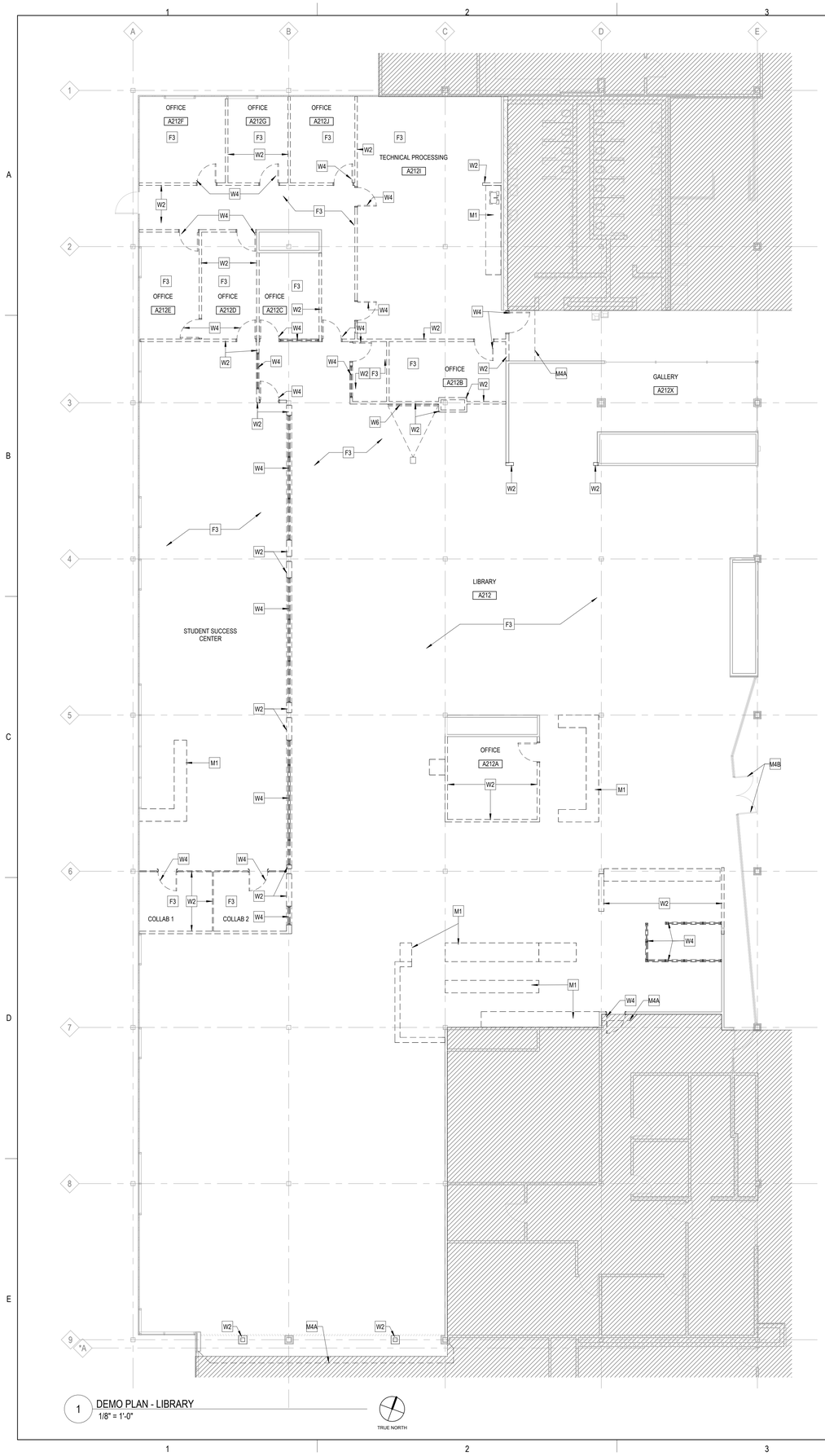

1 DEMO PLAN - LIBRARY
1/8" = 1'-0"

TRUE NORTH

DEMO GENERAL NOTES:

1. PRIOR TO AND DURING ANY DEMOLITION THE CONTRACTOR SHALL VERIFY AND MAINTAIN THE BUILDING'S STRUCTURAL INTEGRITY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AS REQUIRED TO INSTALL ALL NEW WORK. REPAIR, PATCH AND FINISH EXISTING FLOORS, WALLS AND CEILINGS DESIGNATED TO REMAIN TO MATCH EXISTING CONDITIONS.
3. REMOVE ALL HANGERS, SUSPENSION SYSTEMS, SUPPORT FRAMING, EQUIPMENT PADS, ANCHORS, ATTACHMENT HARDWARE AND RELATED APPURTENANCES CONNECTED WITH THE WORK TO BE DEMOLISHED. IF COMPLETE REMOVAL IS NOT POSSIBLE, CUT DEVICES AS CLOSE AS POSSIBLE TO ADJOINING SURFACES OR ORIGIN OF SUPPORT.
4. DURING THE BIDDING PERIOD, EACH BIDDING CONTRACTOR SHALL VISIT THE SITE AND THE FACILITY TO DETERMINE EXISTING CONDITIONS. CONTRACTOR 'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND THE WORK INVOLVED THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
5. ALL MATERIALS, EQUIPMENT, FIXTURES, SYSTEMS, AND ACCESSORIES WHICH ARE TO REMAIN IN SERVICE SHALL BE CLEANED, REPAIRED, ADJUSTED AND PLACED INTO PROPER OPERATIONS IN ALL MODES WITH THE ORIGINAL SYSTEM.
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8. EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE GENERAL DEMOLITION AND REMODELING WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS IN SERVICE IN ORDER TO PROVIDE FOR THE TIMELY REMOVAL AND/OR RELOCATION OF EQUIPMENT, PIPING, ETC.
9. REMOVE ALL ABANDONED CONDUIT BOXES, CONDUCTORS, TELEPHONE LINES, ELECTRIC PANELS, AND ANY OTHER MISCELLANEOUS EQUIPMENT NOT REQUIRED FOR THE NEW FACILITY.
10. REMOVE ALL RECESSED FLOOR BOXES, WALKER DUCTS, FLOOR SINKS, HUB DRAINS, ELECTRICAL RECEPTACLES, ETC. AND FILL VOIDS AS REQUIRED.
11. REMOVE ALL DOOR STOPS AT ASSOCIATED DOORS TO BE DEMOLISHED.
12. NO TOXIC SUBSTANCES HAVE BEEN NOTED ON THE SITE. SHOULD THE CONTRACTOR ENCOUNTER ANY ASBESTOS, ASBESTOS PRODUCTS, PCBs OR OTHER TOXIC SUBSTANCES, THE CONTRACTOR SHOULD REPORT THIS IMMEDIATELY TO THE OWNER IN WRITING PRIOR TO CONTINUING WORK IN THIS AREA. WORK SHALL NOT BE RESUMED EXCEPT BY WRITTEN AUTHORIZATION OR AGREEMENT.
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14. REMOVE ALL CEILING SYSTEMS IN THEIR ENTIRETY, INCLUDING TILE, GRID, SUSPENSION WIRING, ANCHORS AND ALL ASSOCIATED APPURTENANCES UNLESS OTHERWISE NOTED.

DEMO SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- HATCH INDICATES AREA NOT IN SCOPE
- GYPSUM BOARD OR PLASTER PARTITION TO BE REMOVED
- CMU PARTITION TO BE REMOVED
- FRAME AND DOOR TO BE REMOVED, SALVAGE HARDWARE TO OWNER
- SUSPENDED ACOUSTICAL TILE CEILING TO BE REMOVED
- SUSPENDED ACOUSTICAL TILE CEILING TO REMAIN
- GYPSUM BOARD OR PLASTER CEILING TO BE REMOVED
- GYPSUM BOARD OR PLASTER CEILING TO REMAIN
- RECESSED 2'x4' LAY-IN LIGHT FIXTURE TO BE REMOVED
- RECESSED 2'x2' LAY-IN LIGHT FIXTURE TO BE REMOVED
- RECESSED 2'x4' LAY-IN LIGHT FIXTURE TO REMAIN
- RECESSED 2'x2' LAY-IN LIGHT FIXTURE TO REMAIN
- LINEAR LIGHT FIXTURE TO BE REMOVED
- REMOVE MOTORIZED SCREEN - SALVAGE TO OWNER
- REMOVE CEILING MOUNTED PROJECTOR - SALVAGE TO OWNER
- RETURN AIR GRILLE TO BE REMOVED
- SUPPLY AIR GRILLE TO BE REMOVED
- RETURN AIR GRILLE TO REMAIN
- SUPPLY AIR GRILLE TO REMAIN

DEMO REFERENCED NOTES:

FLOOR DEMOLITION KEYED NOTES

F1. REMOVE FLOOR / WALL WIREMOLD SYSTEM COMPLETE, INCLUDING ALL WIRING AND ACCESSORIES. PATCH AND PREP EXISTING WALL AS REQUIRED FOR NEW WORK.
F2. REMOVE EXISTING POWER / DATA VERTICAL UTILITY CHASE, INCLUDING ALL WIRING AND MOUNTING ACCESSORIES COMPLETE.
F3. REMOVE CARPET, BACKER, TRANSITIONS, RESILIENT BASE AND ALL ADHESIVES COMPLETE. CLEAN AND PREP FLOOR SLAB AS REQUIRED FOR NEW FLOORING FINISH.
F4. REMOVE VCT FLOORING, TRANSITIONS, RESILIENT BASE, AND ALL ADHESIVES COMPLETE. CLEAN AND PREP FLOOR SLAB AS REQUIRED FOR NEW FLOORING FINISH.
F5. EXISTING RESILIENT RAMP AND STAIR TREADS TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
F6. HATCH INDICATES PROPOSED AREA OF SLAB REMOVAL AS REQUIRED FOR PLUMBING WORK. BACKFILL AS REQUIRED AN DINFILL PER DETAIL 11/A7.02.

WALL DEMOLITION KEYED NOTES

W1. REMOVE CMU AS REQUIRED FOR NEW OPENING. CUT WHOLE BLOCKS BACK AND INTALL NEW CMU AS REQUIRED FOR SOLID JAMBS.
W2. REMOVE WALL COMPLETE TO DECK (+/- 18') ABOVE FOR EXTENTS INDICATED. PATCH AND PREP ADJACENT WALLS TO REMAIN FOR NEW WORK.
W3. EXISTING FIRE EXTINGUISHER TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
W4. REMOVE HOLLOW METAL DOOR AND WINDOW SYSTEM COMPLETE.
W5. EXISTING MECHANICAL/ ELECTRICAL EQUIPMENT TO REMAIN - PROTECT THROUGHOUT CONSTRUCTION.
W6. REMOVE EXISTING MARKERBOARD, CORK BOARD, PROJECTOR SCREEN, OR MISC WALL MOUNTED SHELVING COMPLETE. PATCH AND PREP EXISTING WALL AS REQUIRED FOR NEW WORK.

CEILING DEMOLITION KEYED NOTES

C1A. REMOVE EXISTING SUSPENDED CEILING SYSTEM COMPLETE, INCLUDING ALL ACCESSORIES, SUSPENSION WIRES, CLIPS, ETC. TO EXTENTS SHOWN.
C1B. NOT USED.
C1C. REMOVE EXISTING SUSPENDED CEILING SYSTEM COMPLETE, INCLUDING ALL GRILLES / REGISTERS, ACCESSORIES, SUSPENSION WIRES, CLIPS, ETC COMPLETE TO EXTENTS INDICATED. REMOVE ALL LIGHTING / DEVICES AND SALVAGE FOR REINSTALLATION IN NEW CEILING. ALL SPRINKLERS TO BE LEFT EXISTING TO REMAIN AND PROTECTED THROUGHOUT CONSTRUCTION. REMOVE SPRINKLER COVERPLATES AND REINSTALL IN NEW CEILING. REMOVE AND SALVAGE ALL FULLY INTACT, NON-DAMAGED CEILING TILES AND TURN OVER TO OWNER FOR ATTIC STOCK.
C1D. REMOVE ALL CEILING TILES, LIGHTING, AND DIFFUSERS / REGISTERS COMPLETE. LEAVE GRID INTACT AND PROTECT AS REQUIRED FOR NEW WORK. REMOVE ALL DEVICES AND SALVAGE FOR REINSTALLATION IN NEW CEILING TILES. LEAVE EXISTING SPRINKLER HEADS TO REMAIN, U.N.O. ON FIRE PROTECTION DRAWINGS.
C2. EXISTING CEILING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION AND TIE INTO NEW CEILING SYSTEM AS REQUIRED.
C3. REMOVE TRACK LIGHTING SYSTEM COMPLETE. PATCH AND PREP CEILING AS REQUIRED FOR NEW LIGHT FIXTURE INSTALLATION (REFER TO ELEC).
C4. REMOVE EXISTING BLINDS COMPLETE. PREP WALL / CEILING AS REQUIRED FOR NEW WORK.
C5. REMOVE GYP. CEILING AND LIGHT FIXTURES COMPLETE TO EXTENTS INDICATED.
C6. REMOVE SUSPENDED CEILING SYSTEM COMPLETE AS REQUIRED FOR MECHANICAL DUCT REPLACEMENT. SALVAGE ALL UN-DAMAGED TILES, LIGHTS, AND DEVICES FOR REINSTALLATION IN NEW WORK. COORDINATE SCHEDULING OF NEW WORK WITH OWNER PRIOR TO COMMENCEMENT.

MISCELLANEOUS DEMOLITION KEYED NOTES

M1. REMOVE EXISTING COUNTERTOPS, SINKS, SHELVES, BOOKCASES, AND BASE CABINETS COMPLETE.
M2. REMOVE EXISTING SHOWER HEAD, CONTROLS, PIPING AN D SHOWER ACCESSORIES COMPLETE.
M3. EXISTING MECHANICAL AND PLUMBING SYSTEM (INCLUDING ALL ASSOCIATED PIPING, DUCT, UTILITIES, AND ACCESSORIES) TO BE REMOVED COMPLETE. REFER TO MEP DRAWINGS FOR ADDITIONAL SCOPE.
M4A. PROVIDE FULL-HEIGHT DUST ENCLOSURE TO EXISTING CEILING ABOVE THROUGHOUT THE DURATION OF CONSTRUCTION. PROVIDE ACCESS LOCATIONS AS REQUIRED FOR CONTRACTOR AND OWNER ACCESS.
M4B. EXISTING DOOR TO REMAIN. SEAL AT THE BEGINNING OF CONSTRUCTION FOR DUST CONTROL AND PROTECT THROUGHOUT CONSTRUCTION.
M5. REMOVE EXISTING DRINKING FOUNTAINS COMPLETE.
M6. EXISTING SHOWER DRAIN TO REMAIN. REFER TO PLUMBING.
M7. NOT USED.
M8. EXISTING OVERHEAD COILING GARAGE DOOR TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
M9. REMOVE SHOWER CURTAIN, ROD, AND SOLID SURFACE TRIM COMPLETE.
M10. CORRIDOR TO REMAIN OPEN AND ACCESSIBLE THROUGHOUT CONSTRUCTION. THE GC IS RESPONSIBLE FOR COORDINATING A PHASED SEQUENCE OF DEMO AND NEW WORK WITH THE OWNER TO MAINTAIN CONTINUED OPERATION OF THE CORRIDOR. REFER TO SPECS FOR ADDITIONAL DETAILS.
M11. EXISTING IT CLOSET - EQUIPMENT TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION - PROVIDE DUST PROTECTION OVER DOOR AND COORDINATE WITH OWNER IF ANY TEMP POWER OR VENTILATION IS REQUIRED WITH NEW WORK SCOPE.
M12. REMOVE FIRE EXTINGUISHER AND ASSOCIATED WALL MOUNT. TURN OVER TO OWNER.
M13. REMOVE ALL UTILITIES AND UTILITY SUPPORT SYSTEMS (UNISTRUT, CONDUIT, HANGERS, PEDESTALS, ETC) SERVING OLD EQUIPMENT COMPLETE IN THE AREA INDICATED

dka

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO:24-031

KEY PLAN:

SHEET STATUS: 10/17/2024

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

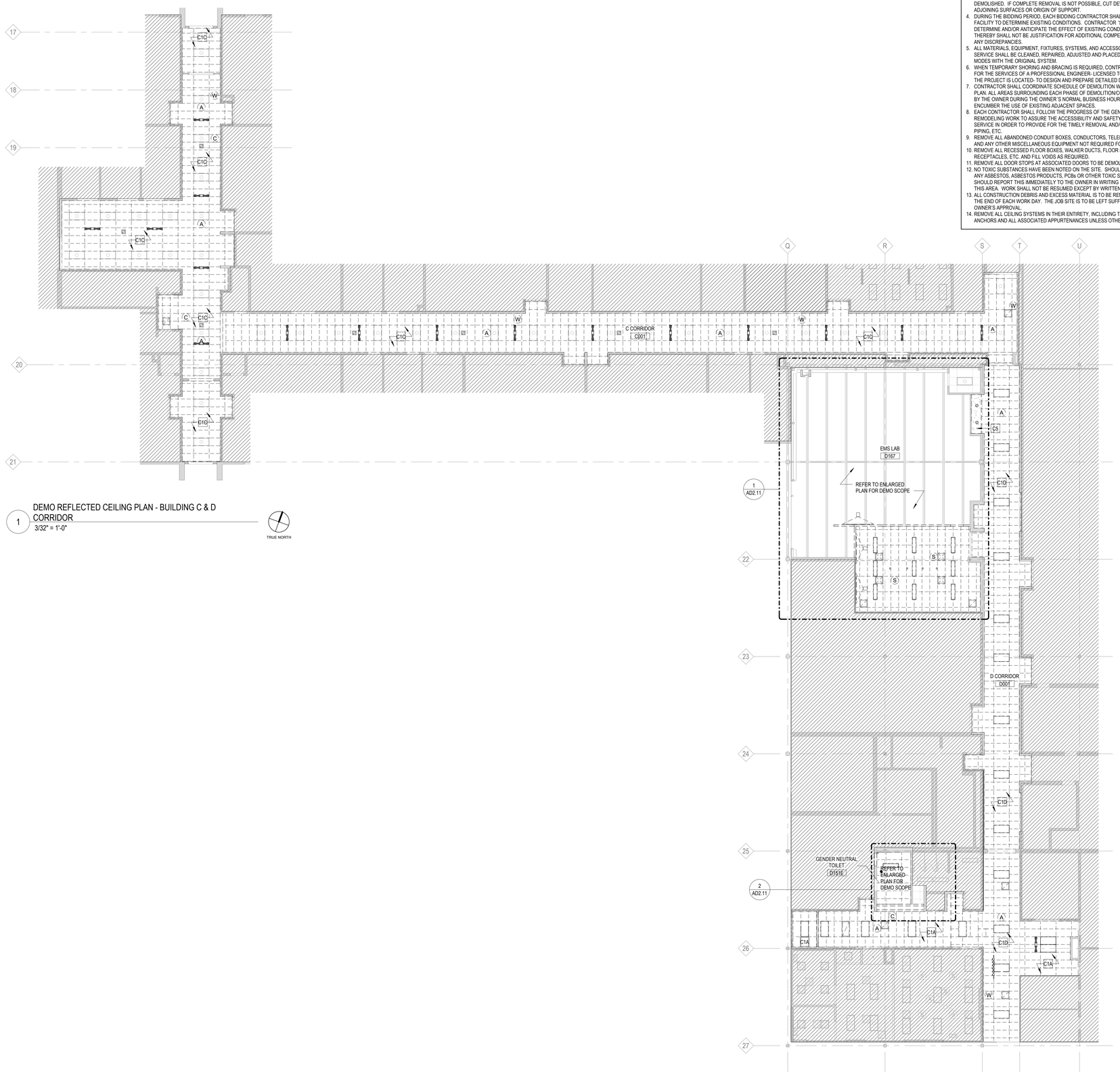
SHEET TITLE:

DEMOLITION PLANS

SHEET NUMBER:

AD1.20

10/17/2024 3:52:35 PM



1 DEMO REFLECTED CEILING PLAN - BUILDING C & D CORRIDOR
3/32" = 1'-0"

TRUE NORTH

DEMO GENERAL NOTES:

1. PRIOR TO AND DURING ANY DEMOLITION THE CONTRACTOR SHALL VERIFY AND MAINTAIN THE BUILDING'S STRUCTURAL INTEGRITY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AS REQUIRED TO INSTALL ALL NEW WORK. REPAIR, PATCH AND FINISH EXISTING FLOORS, WALLS AND CEILINGS DESIGNATED TO REMAIN TO MATCH EXISTING CONDITIONS.
3. REMOVE ALL HANGERS, SUSPENSION SYSTEMS, SUPPORT FRAMING, EQUIPMENT PADS, ANCHORS, ATTACHMENT HARDWARE AND RELATED APPURTENANCES CONNECTED WITH THE WORK TO BE DEMOLISHED. IF COMPLETE REMOVAL IS NOT POSSIBLE, CUT DEVICES AS CLOSE AS POSSIBLE TO ADJOINING SURFACES OR ORIGIN OF SUPPORT.
4. DURING THE BIDDING PERIOD, EACH BIDDING CONTRACTOR SHALL VISIT THE SITE AND THE FACILITY TO DETERMINE EXISTING CONDITIONS. CONTRACTOR 'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND THE WORK INVOLVED THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
5. ALL MATERIALS, EQUIPMENT, FIXTURES, SYSTEMS, AND ACCESSORIES WHICH ARE TO REMAIN IN SERVICE SHALL BE CLEANED, REPAIRED, ADJUSTED AND PLACED INTO PROPER OPERATIONS IN ALL MODES WITH THE ORIGINAL SYSTEM.
6. WHEN TEMPORARY SHORING AND BRACING IS REQUIRED, CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A PROFESSIONAL ENGINEER- LICENSED TO PRACTICE IN THE STATE WHERE THE PROJECT IS LOCATED- TO DESIGN AND PREPARE DETAILED DRAWINGS.
7. CONTRACTOR SHALL COORDINATE SCHEDULE OF DEMOLITION WORK WITH THE OVERALL PHASING PLAN. ALL AREAS SURROUNDING EACH PHASE OF DEMOLITION/CONSTRUCTION WILL BE OCCUPIED BY THE OWNER DURING THE OWNER 'S NORMAL BUSINESS HOURS. DEMOLITION WORK SHALL NOT ENCUMBER THE USE OF EXISTING ADJACENT SPACES.
8. EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE GENERAL DEMOLITION AND REMODELING WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS IN SERVICE IN ORDER TO PROVIDE FOR THE TIMELY REMOVAL AND/OR RELOCATION OF EQUIPMENT, PIPING, ETC.
9. REMOVE ALL ABANDONED CONDUIT BOXES, CONDUCTORS, TELEPHONE LINES, ELECTRIC PANELS, AND ANY OTHER MISCELLANEOUS EQUIPMENT NOT REQUIRED FOR THE NEW FACILITY.
10. REMOVE ALL RECESSED FLOOR BOXES, WALKER DUCTS, FLOOR SINKS, HUB DRAINS, ELECTRICAL RECEPTACLES, ETC. AND FILL VOIDS AS REQUIRED.
11. REMOVE ALL DOOR STOPS AT ASSOCIATED DOORS TO BE DEMOLISHED.
12. NO TOXIC SUBSTANCES HAVE BEEN NOTED ON THE SITE. SHOULD THE CONTRACTOR ENCOUNTER ANY ASBESTOS, ASBESTOS PRODUCTS, PCBs OR OTHER TOXIC SUBSTANCES, THE CONTRACTOR SHOULD REPORT THIS IMMEDIATELY TO THE OWNER IN WRITING PRIOR TO CONTINUING WORK IN THIS AREA. WORK SHALL NOT BE RESUMED EXCEPT BY WRITTEN AUTHORIZATION OR AGREEMENT.
13. ALL CONSTRUCTION DEBRIS AND EXCESS MATERIAL IS TO BE REMOVED BY THE CONTRACTOR AT THE END OF EACH WORK DAY. THE JOB SITE IS TO BE LEFT SUFFICIENTLY CLEAN AS TO WARRANT OWNER'S APPROVAL.
14. REMOVE ALL CEILING SYSTEMS IN THEIR ENTIRETY, INCLUDING TILE, GRID, SUSPENSION WIRING, ANCHORS AND ALL ASSOCIATED APPURTENANCES UNLESS OTHERWISE NOTED.

DEMO SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- HATCH INDICATES AREA NOT IN SCOPE
- GYPSUM BOARD OR PLASTER PARTITION TO BE REMOVED
- CMU PARTITION TO BE REMOVED
- FRAME AND DOOR TO BE REMOVED, SALVAGE HARDWARE TO OWNER
- SUSPENDED ACOUSTICAL TILE CEILING TO BE REMOVED
- SUSPENDED ACOUSTICAL TILE CEILING TO REMAIN
- GYPSUM BOARD OR PLASTER CEILING TO BE REMOVED
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DEMO REFERENCED NOTES:

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F3. REMOVE CARPET, BACKER, TRANSITIONS, RESILIENT BASE AND ALL ADHESIVES COMPLETE. CLEAN AND PREP FLOOR SLAB AS REQUIRED FOR NEW FLOORING FINISH.
F4. REMOVE VCT FLOORING, TRANSITIONS, RESILIENT BASE, AND ALL ADHESIVES COMPLETE. CLEAN AND PREP FLOOR SLAB AS REQUIRED FOR NEW FLOORING FINISH.
F5. EXISTING RESILIENT RAMP AND STAIR TREADS TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
F6. HATCH INDICATES PROPOSED AREA OF SLAB REMOVAL AS REQUIRED FOR PLUMBING WORK. BACKFILL AS REQUIRED AN DINFILL PER DETAIL 11/A7.02.

WALL DEMOLITION KEYED NOTES

W1. REMOVE CMU AS REQUIRED FOR NEW OPENING. CUT WHOLE BLOCKS BACK AND INTALL NEW CMU AS REQUIRED FOR SOLID JAMBS.
W2. REMOVE WALL COMPLETE TO DECK (+/- 18') ABOVE FOR EXTENTS INDICATED. PATCH AND PREP ADJACENT WALLS TO REMAIN FOR NEW WORK.
W3. EXISTING FIRE EXTINGUISHER TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
W4. REMOVE HOLLOW METAL DOOR AND WINDOW SYSTEM COMPLETE.
W5. EXISTING MECHANICAL/ ELECTRICAL EQUIPMENT TO REMAIN - PROTECT THROUGHOUT CONSTRUCTION.
W6. REMOVE EXISTING MARKERBOARD, CORK BOARD, PROJECTOR SCREEN, OR MISC WALL MOUNTED SHELVING COMPLETE. PATCH AND PREP EXISTING WALL AS REQUIRED FOR NEW WORK.

CEILING DEMOLITION KEYED NOTES

C1A. REMOVE EXISTING SUSPENDED CEILING SYSTEM COMPLETE, INCLUDING ALL ACCESSORIES, SUSPENSION WIRES, CLIPS, ETC, TO EXTENTS SHOWN.
C1B. NOT USED.
C1C. REMOVE EXISTING SUSPENDED CEILING SYSTEM COMPLETE, INCLUDING ALL GRILLES / REGISTERS, ACCESSORIES, SUSPENSION WIRES, CLIPS, ETC COMPLETE TO EXTENTS INDICATED. REMOVE ALL LIGHTING / DEVICES AND SALVAGE FOR REINSTALLATION IN NEW CEILING. ALL SPRINKLERS TO BE LEFT EXISTING TO REMAIN AND PROTECTED THROUGHOUT CONSTRUCTION. REMOVE SPRINKLER COVERPLATES AND REINSTALL IN NEW CEILING. REMOVE AND SALVAGE ALL FULLY INTACT, NON-DAMAGED CEILING TILES AND TURN OVER TO OWNER FOR ATTIC STOCK.
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C4. REMOVE EXISTING BLINDS COMPLETE. PREP WALL / CEILING AS REQUIRED FOR NEW WORK.
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C6. REMOVE SUSPENDED CEILING SYSTEM COMPLETE AS REQUIRED FOR MECHANICAL DUCT REPLACEMENT. SALVAGE ALL UN-DAMAGED TILES, LIGHTS, AND DEVICES FOR REINSTALLATION IN NEW WORK. COORDINATE SCHEDULING OF NEW WORK WITH OWNER PRIOR TO COMMENCEMENT.

MISCELLANEOUS DEMOLITION KEYED NOTES

M1. REMOVE EXISTING COUNTERTOPS, SINKS, SHELVES, BOOKCASES, AND BASE CABINETS COMPLETE.
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M3. EXISTING MECHANICAL AND PLUMBING SYSTEM (INCLUDING ALL ASSOCIATED PIPING, DUCT, UTILITIES, AND ACCESSORIES) TO BE REMOVED COMPLETE. REFER TO MEP DRAWINGS FOR ADDITIONAL SCOPE.
M4A. PROVIDE FULL-HEIGHT DUST ENCLOSURE TO EXISTING CEILING ABOVE THROUGHOUT THE DURATION OF CONSTRUCTION. PROVIDE ACCESS LOCATIONS AS REQUIRED FOR CONTRACTOR AND OWNER ACCESS.
M4B. EXISTING DOOR TO REMAIN. SEAL AT THE BEGINNING OF CONSTRUCTION FOR DUST CONTROL AND PROTECT THROUGHOUT CONSTRUCTION.
M5. REMOVE EXISTING DRINKING FOUNTAINS COMPLETE.
M6. EXISTING SHOWER DRAIN TO REMAIN. REFER TO PLUMBING.
M7. NOT USED.
M8. EXISTING OVERHEAD COILING GARAGE DOOR TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
M9. REMOVE SHOWER CURTAIN, ROD, AND SOLID SURFACE TRIM COMPLETE.
M10. CORRIDOR TO REMAIN OPEN AND ACCESSIBLE THROUGHOUT CONSTRUCTION. THE GC IS RESPONSIBLE FOR COORDINATING A PHASED SEQUENCE OF DEMO AND NEW WORK WITH THE OWNER TO MAINTAIN CONTINUED OPERATION OF THE CORRIDOR. REFER TO SPECS FOR ADDITIONAL DETAILS.
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M12. REMOVE FIRE EXTINGUISHER AND ASSOCIATED WALL MOUNT. TURN OVER TO OWNER.
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ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO:24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
DEMOLITION RCP PLANS

SHEET NUMBER:
AD2.10

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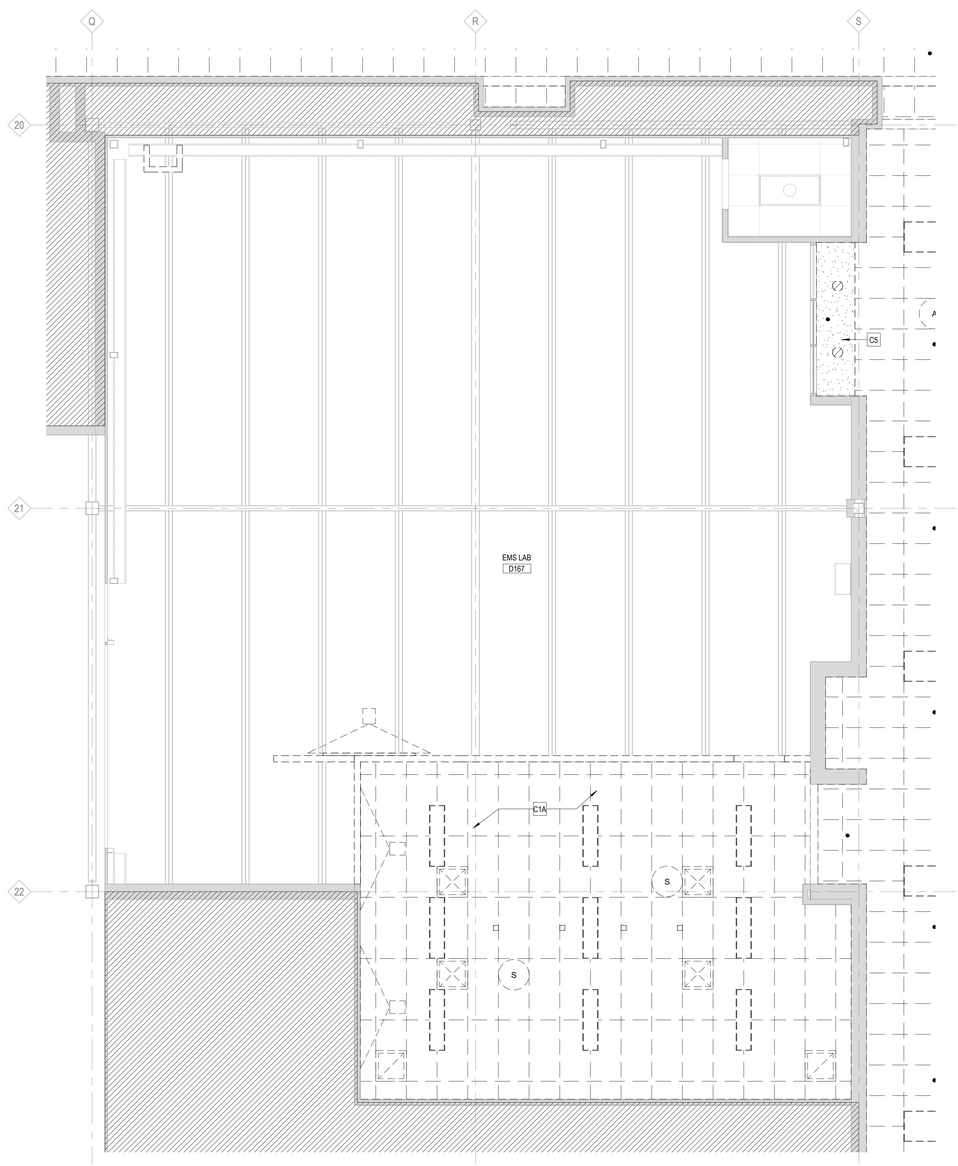
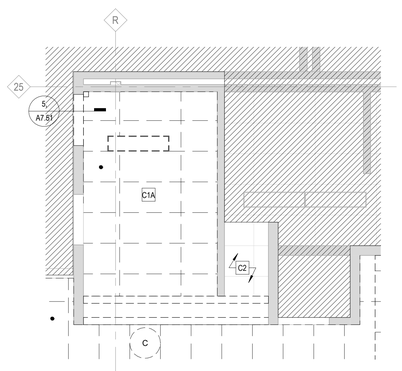


1 DEMO REFLECTED CEILING PLAN - EMS
1/4" = 1'-0"

TRUE NORTH



2 DEMO REFLECTED CEILING PLAN - TOILET
1/4" = 1'-0"

TRUE NORTH

DEMO GENERAL NOTES:

1. PRIOR TO AND DURING ANY DEMOLITION THE CONTRACTOR SHALL VERIFY AND MAINTAIN THE BUILDING'S STRUCTURAL INTEGRITY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AS REQUIRED TO INSTALL ALL NEW WORK. REPAIR, PATCH AND FINISH EXISTING FLOORS, WALLS AND CEILINGS DESIGNATED TO REMAIN TO MATCH EXISTING CONDITIONS.
3. REMOVE ALL HANGERS, SUSPENSION SYSTEMS, SUPPORT FRAMING, EQUIPMENT PADS, ANCHORS, ATTACHMENT HARDWARE AND RELATED APPURTENANCES CONNECTED WITH THE WORK TO BE DEMOLISHED. IF COMPLETE REMOVAL IS NOT POSSIBLE, CUT DEVICES AS CLOSE AS POSSIBLE TO ADJOINING SURFACES OR ORIGIN OF SUPPORT.
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WALL DEMOLITION KEYED NOTES

W1. REMOVE CMU AS REQUIRED FOR NEW OPENING. CUT WHOLE BLOCKS BACK AND INTALL NEW CMU AS REQUIRED FOR SOLID JAMBS.
W2. REMOVE WALL COMPLETE TO DECK (+/- 18') ABOVE FOR EXTENTS INDICATED. PATCH AND PREP ADJACENT WALLS TO REMAIN FOR NEW WORK.
W3. EXISTING FIRE EXTINGUISHER TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
W4. REMOVE HOLLOW METAL DOOR AND WINDOW SYSTEM COMPLETE.
W5. EXISTING MECHANICAL/ ELECTRICAL EQUIPMENT TO REMAIN - PROTECT THROUGHOUT CONSTRUCTION.
W6. REMOVE EXISTING MARKERBOARD, CORK BOARD, PROJECTOR SCREEN, OR MISC WALL MOUNTED SHELVING COMPLETE. PATCH AND PREP EXISTING WALL AS REQUIRED FOR NEW WORK.

CEILING DEMOLITION KEYED NOTES

C1A. REMOVE EXISTING SUSPENDED CEILING SYSTEM COMPLETE, INCLUDING ALL ACCESSORIES, SUSPENSION WIRES, CLIPS, ETC. TO EXTENTS SHOWN.
C1B. NOT USED.
C1C. REMOVE EXISTING SUSPENDED CEILING SYSTEM COMPLETE, INCLUDING ALL GRILLES / REGISTERS, ACCESSORIES, SUSPENSION WIRES, CLIPS, ETC COMPLETE TO EXTENTS INDICATED. REMOVE ALL LIGHTING / DEVICES AND SALVAGE FOR REINSTALLATION IN NEW CEILING. ALL SPRINKLERS TO BE LEFT EXISTING TO REMAIN AND PROTECTED THROUGHOUT CONSTRUCTION. REMOVE SPRINKLER COVERPLATES AND REINSTALL IN NEW CEILING. REMOVE AND SALVAGE ALL FULLY INTACT, NON-DAMAGED CEILING TILES AND TURN OVER TO OWNER FOR ATTIC STOCK.
C1D. REMOVE ALL CEILING TILES, LIGHTING, AND DIFFUSERS / REGISTERS COMPLETE. LEAVE GRID INTACT AND PROTECT AS REQUIRED FOR NEW WORK. REMOVE ALL DEVICES AND SALVAGE FOR REINSTALLATION IN NEW CEILING TILES. LEAVE EXISTING SPRINKLER HEADS TO REMAIN, U.N.O. ON FIRE PROTECTION DRAWINGS.
C2. EXISTING CEILING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION AND TIE INTO NEW CEILING SYSTEM AS REQUIRED.
C3. REMOVE TRACK LIGHTING SYSTEM COMPLETE. PATCH AND PREP CEILING AS REQUIRED FOR NEW LIGHT FIXTURE INSTALLATION (REFER TO ELEC).
C4. REMOVE EXISTING BLINDS COMPLETE. PREP WALL / CEILING AS REQUIRED FOR NEW WORK.
C5. REMOVE GYP. CEILING AND LIGHT FIXTURES COMPLETE TO EXTENTS INDICATED.
C6. REMOVE SUSPENDED CEILING SYSTEM COMPLETE AS REQUIRED FOR MECHANICAL DUCT REPLACEMENT. SALVAGE ALL UN-DAMAGED TILES, LIGHTS, AND DEVICES FOR REINSTALLATION IN NEW WORK. COORDINATE SCHEDULING OF NEW WORK WITH OWNER PRIOR TO COMMENCEMENT.

MISCELLANEOUS DEMOLITION KEYED NOTES

M1. REMOVE EXISTING COUNTERTOPS, SINKS, SHELVES, BOOKCASES, AND BASE CABINETS COMPLETE.
M2. REMOVE EXISTING S HOWER HEAD, CONTROLS, PIPING AN D SHOWER ACCESSORIES COMPLETE.
M3. EXISTING MECHANICAL AND PLUMBING SYSTEM (INCLUDING ALL ASSOCIATED PIPING, DUCT, UTILITIES, AND ACCESSORIES) TO BE REMOVED COMPLETE. REFER TO MEP DRAWINGS FOR ADDITIONAL SCOPE.
M4A. PROVIDE FULL-HEIGHT DUST ENCLOSURE TO EXISTING CEILING ABOVE THROUGHOUT THE DURATION OF CONSTRUCTION. PROVIDE ACCESS LOCATIONS AS REQUIRED FOR CONTRACTOR AND OWNER ACCESS.
M4B. EXISTING DOOR TO REMAIN. SEAL AT THE BEGINNING OF CONSTRUCTION FOR DUST CONTROL AND PROTECT THROUGHOUT CONSTRUCTION.
M5. REMOVE EXISTING DRINKING FOUNTAINS COMPLETE.
M6. EXISTING SHOWER DRAIN TO REMAIN. REFER TO PLUMBING.
M7. NOT USED.
M8. EXISTING OVERHEAD COILING GARAGE DOOR TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
M9. REMOVE SHOWER CURTAIN, ROD, AND SOLID SURFACE TRIM COMPLETE.
M10. CORRIDOR TO REMAIN OPEN AND ACCESSIBLE THROUGHOUT CONSTRUCTION. THE GC IS RESPONSIBLE FOR COORDINATING A PHASED SEQUENCE OF DEMO AND NEW WORK WITH THE OWNER TO MAINTAIN CONTINUED OPERATION OF THE CORRIDOR. REFER TO SPECS FOR ADDITIONAL DETAILS.
M11. EXISTING IT CLOSET - EQUIPMENT TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION - PROVIDE DUST PROTECTION OVER DOOR AND COORDINATE WITH OWNER IF ANY TEMP POWER OR VENTILATION IS REQUIRED WITH NEW WORK SCOPE.
M12. REMOVE FIRE EXTINGUISHER AND ASSOCIATED WALL MOUNT. TURN OVER TO OWNER.
M13. REMOVE ALL UTILITIES AND UTILITY SUPPORT SYSTEMS (UNISTRUT, CONDUIT, HANGERS, PEDESTALS, ETC) SERVING OLD EQUIPMENT COMPLETE IN THE AREA INDICATED

dkA

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

SHEET STATUS: 10/17/2024

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:

DEMOLITION RCP PLANS

SHEET NUMBER:

AD2.11

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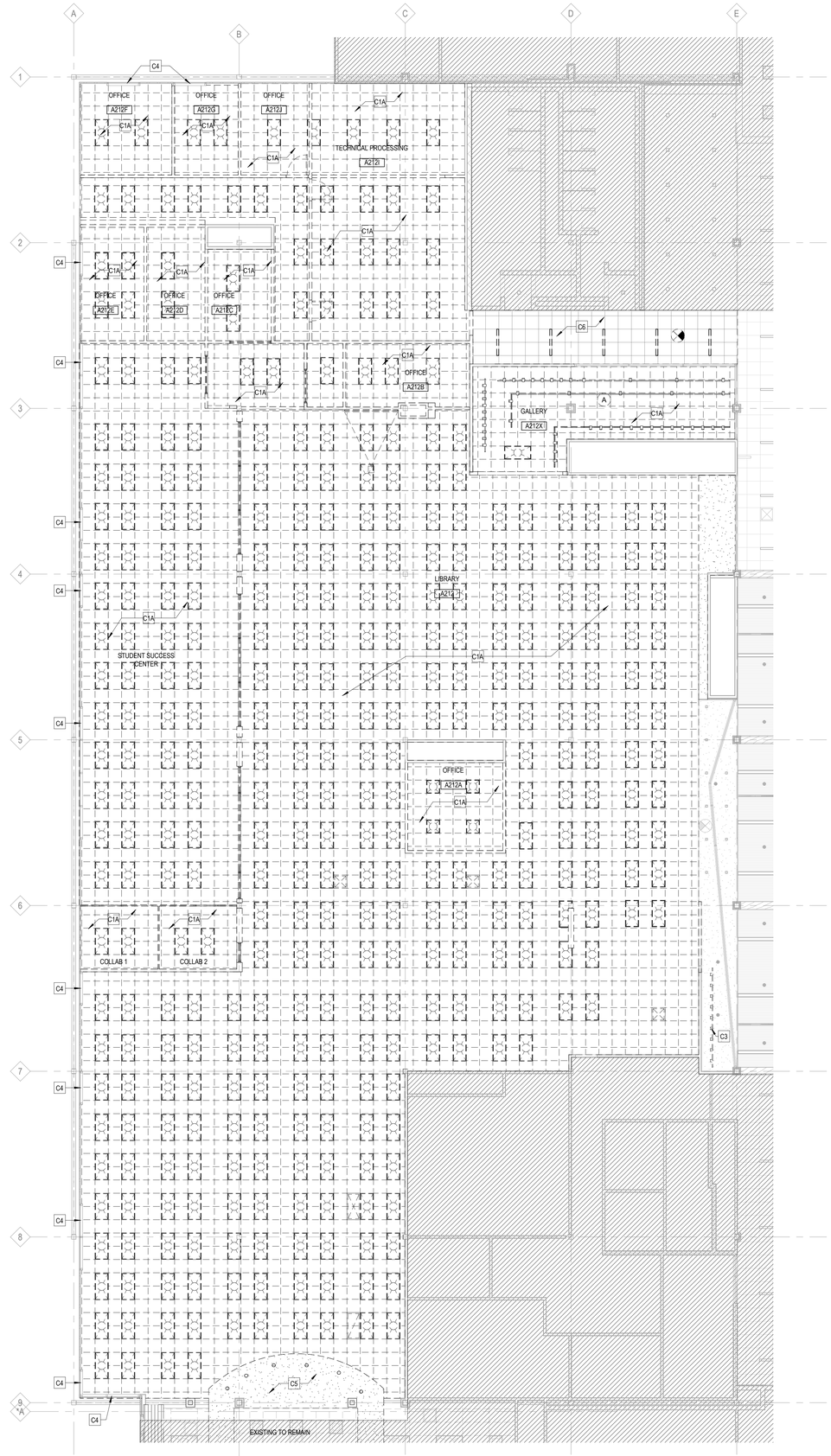

1 DEMOLITION REFLECTED CEILING PLAN - LIBRARY
1/8" = 1'-0"

TRUE NORTH

DEMO GENERAL NOTES:

1. PRIOR TO AND DURING ANY DEMOLITION THE CONTRACTOR SHALL VERIFY AND MAINTAIN THE BUILDING'S STRUCTURAL INTEGRITY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AS REQUIRED TO INSTALL ALL NEW WORK. REPAIR, PATCH AND FINISH EXISTING FLOORS, WALLS AND CEILINGS DESIGNATED TO REMAIN TO MATCH EXISTING CONDITIONS.
3. REMOVE ALL HANGERS, SUSPENSION SYSTEMS, SUPPORT FRAMING, EQUIPMENT PADS, ANCHORS, ATTACHMENT HARDWARE AND RELATED APPURTENANCES CONNECTED WITH THE WORK TO BE DEMOLISHED. IF COMPLETE REMOVAL IS NOT POSSIBLE, CUT DEVICES AS CLOSE AS POSSIBLE TO ADJOINING SURFACES OR ORIGIN OF SUPPORT.
4. DURING THE BIDDING PERIOD, EACH BIDDING CONTRACTOR SHALL VISIT THE SITE AND THE FACILITY TO DETERMINE EXISTING CONDITIONS. CONTRACTOR 'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND THE WORK INVOLVED THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
5. ALL MATERIALS, EQUIPMENT, FIXTURES, SYSTEMS, AND ACCESSORIES WHICH ARE TO REMAIN IN SERVICE SHALL BE CLEANED, REPAIRED, ADJUSTED AND PLACED INTO PROPER OPERATIONS IN ALL MODES WITH THE ORIGINAL SYSTEM.
6. WHEN TEMPORARY SHORING AND BRACING IS REQUIRED, CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A PROFESSIONAL ENGINEER- LICENSED TO PRACTICE IN THE STATE WHERE THE PROJECT IS LOCATED- TO DESIGN AND PREPARE DETAILED DRAWINGS.
7. CONTRACTOR SHALL COORDINATE SCHEDULE OF DEMOLITION WORK WITH THE OVERALL PHASING PLAN. ALL AREAS SURROUNDING EACH PHASE OF DEMOLITION/CONSTRUCTION WILL BE OCCUPIED BY THE OWNER DURING THE OWNER 'S NORMAL BUSINESS HOURS. DEMOLITION WORK SHALL NOT ENCUMBER THE USE OF EXISTING ADJACENT SPACES.
8. EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE GENERAL DEMOLITION AND REMODELING WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS IN SERVICE IN ORDER TO PROVIDE FOR THE TIMELY REMOVAL AND/OR RELOCATION OF EQUIPMENT, PIPING, ETC.
9. REMOVE ALL ABANDONED CONDUIT BOXES, CONDUCTORS, TELEPHONE LINES, ELECTRIC PANELS, AND ANY OTHER MISCELLANEOUS EQUIPMENT NOT REQUIRED FOR THE NEW FACILITY.
10. REMOVE ALL RECESSED FLOOR BOXES, WALKER DUCTS, FLOOR SINKS, HUB DRAINS, ELECTRICAL RECEPTACLES, ETC. AND FILL VOIDS AS REQUIRED.
11. REMOVE ALL DOOR STOPS AT ASSOCIATED DOORS TO BE DEMOLISHED.
12. NO TOXIC SUBSTANCES HAVE BEEN NOTED ON THE SITE. SHOULD THE CONTRACTOR ENCOUNTER ANY ASBESTOS, ASBESTOS PRODUCTS, PCBs OR OTHER TOXIC SUBSTANCES, THE CONTRACTOR SHOULD REPORT THIS IMMEDIATELY TO THE OWNER IN WRITING PRIOR TO CONTINUING WORK IN THIS AREA. WORK SHALL NOT BE RESUMED EXCEPT BY WRITTEN AUTHORIZATION OR AGREEMENT.
13. ALL CONSTRUCTION DEBRIS AND EXCESS MATERIAL IS TO BE REMOVED BY THE CONTRACTOR AT THE END OF EACH WORK DAY. THE JOB SITE IS TO BE LEFT SUFFICIENTLY CLEAN AS TO WARRANT OWNER'S APPROVAL.
14. REMOVE ALL CEILING SYSTEMS IN THEIR ENTIRETY, INCLUDING TILE, GRID, SUSPENSION WIRING, ANCHORS AND ALL ASSOCIATED APPURTENANCES UNLESS OTHERWISE NOTED.

DEMO SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- HATCH INDICATES AREA NOT IN SCOPE
- GYPSUM BOARD OR PLASTER PARTITION TO BE REMOVED
- CMU PARTITION TO BE REMOVED
- FRAME AND DOOR TO BE REMOVED, SALVAGE HARDWARE TO OWNER
- SUSPENDED ACOUSTICAL TILE CEILING TO BE REMOVED
- SUSPENDED ACOUSTICAL TILE CEILING TO REMAIN
- GYPSUM BOARD OR PLASTER CEILING TO BE REMOVED
- GYPSUM BOARD OR PLASTER CEILING TO REMAIN
- RECESSED 2'x4' LAY-IN LIGHT FIXTURE TO BE REMOVED
- RECESSED 2'x2' LAY-IN LIGHT FIXTURE TO BE REMOVED
- RECESSED 2'x4' LAY-IN LIGHT FIXTURE TO REMAIN
- RECESSED 2'x2' LAY-IN LIGHT FIXTURE TO REMAIN
- LINEAR LIGHT FIXTURE TO BE REMOVED
- REMOVE MOTORIZED SCREEN - SALVAGE TO OWNER
- REMOVE CEILING MOUNTED PROJECTOR - SALVAGE TO OWNER
- RETURN AIR GRILLE TO BE REMOVED
- SUPPLY AIR GRILLE TO BE REMOVED
- RETURN AIR GRILLE TO REMAIN
- SUPPLY AIR GRILLE TO REMAIN

DEMO REFERENCED NOTES:

FLOOR DEMOLITION KEYED NOTES

F1. REMOVE FLOOR / WALL WIREMOLD SYSTEM COMPLETE, INCLUDING ALL WIRING AND ACCESSORIES. PATCH AND PREP EXISTING WALL AS REQUIRED FOR NEW WORK.
F2. REMOVE EXISTING POWER / DATA VERTICAL UTILITY CHASE, INCLUDING ALL WIRING AND MOUNTING ACCESSORIES COMPLETE.
F3. REMOVE CARPET, BACKER, TRANSITIONS, RESILIENT BASE AND ALL ADHESIVES COMPLETE. CLEAN AND PREP FLOOR SLAB AS REQUIRED FOR NEW FLOORING FINISH.
F4. REMOVE VCT FLOORING, TRANSITIONS, RESILIENT BASE, AND ALL ADHESIVES COMPLETE. CLEAN AND PREP FLOOR SLAB AS REQUIRED FOR NEW FLOORING FINISH.
F5. EXISTING RESILIENT RAMP AND STAIR TREADS TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
F6. HATCH INDICATES PROPOSED AREA OF SLAB REMOVAL AS REQUIRED FOR PLUMBING WORK. BACKFILL AS REQUIRED AN DINFILL PER DETAIL 11/A7.02.

WALL DEMOLITION KEYED NOTES

W1. REMOVE CMU AS REQUIRED FOR NEW OPENING. CUT WHOLE BLOCKS BACK AND INTALL NEW CMU AS REQUIRED FOR SOLID JAMBS.
W2. REMOVE WALL COMPLETE TO DECK (+/- 18') ABOVE FOR EXTENTS INDICATED. PATCH AND PREP ADJACENT WALLS TO REMAIN FOR NEW WORK.
W3. EXISTING FIRE EXTINGUISHER TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
W4. REMOVE HOLLOW METAL DOOR AND WINDOW SYSTEM COMPLETE.
W5. EXISTING MECHANICAL/ ELECTRICAL EQUIPMENT TO REMAIN - PROTECT THROUGHOUT CONSTRUCTION.
W6. REMOVE EXISTING MARKERBOARD, CORK BOARD, PROJECTOR SCREEN, OR MISC WALL MOUNTED SHELVING COMPLETE. PATCH AND PREP EXISTING WALL AS REQUIRED FOR NEW WORK.

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C1A. REMOVE EXISTING SUSPENDED CEILING SYSTEM COMPLETE, INCLUDING ALL ACCESSORIES, SUSPENSION WIRES, CLIPS, ETC. TO EXTENTS SHOWN.
C1B. NOT USED.
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MISCELLANEOUS DEMOLITION KEYED NOTES

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M6. EXISTING SHOWER DRAIN TO REMAIN. REFER TO PLUMBING.
M7. NOT USED.
M8. EXISTING OVERHEAD COILING GARAGE DOOR TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
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dkA

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO:24-031

KEY PLAN:

SHEET STATUS: 10/17/2024

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:

DEMOLITION RCP PLANS

SHEET NUMBER:

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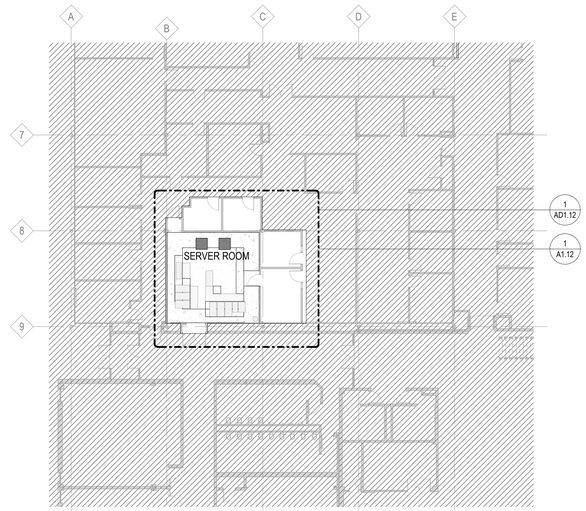
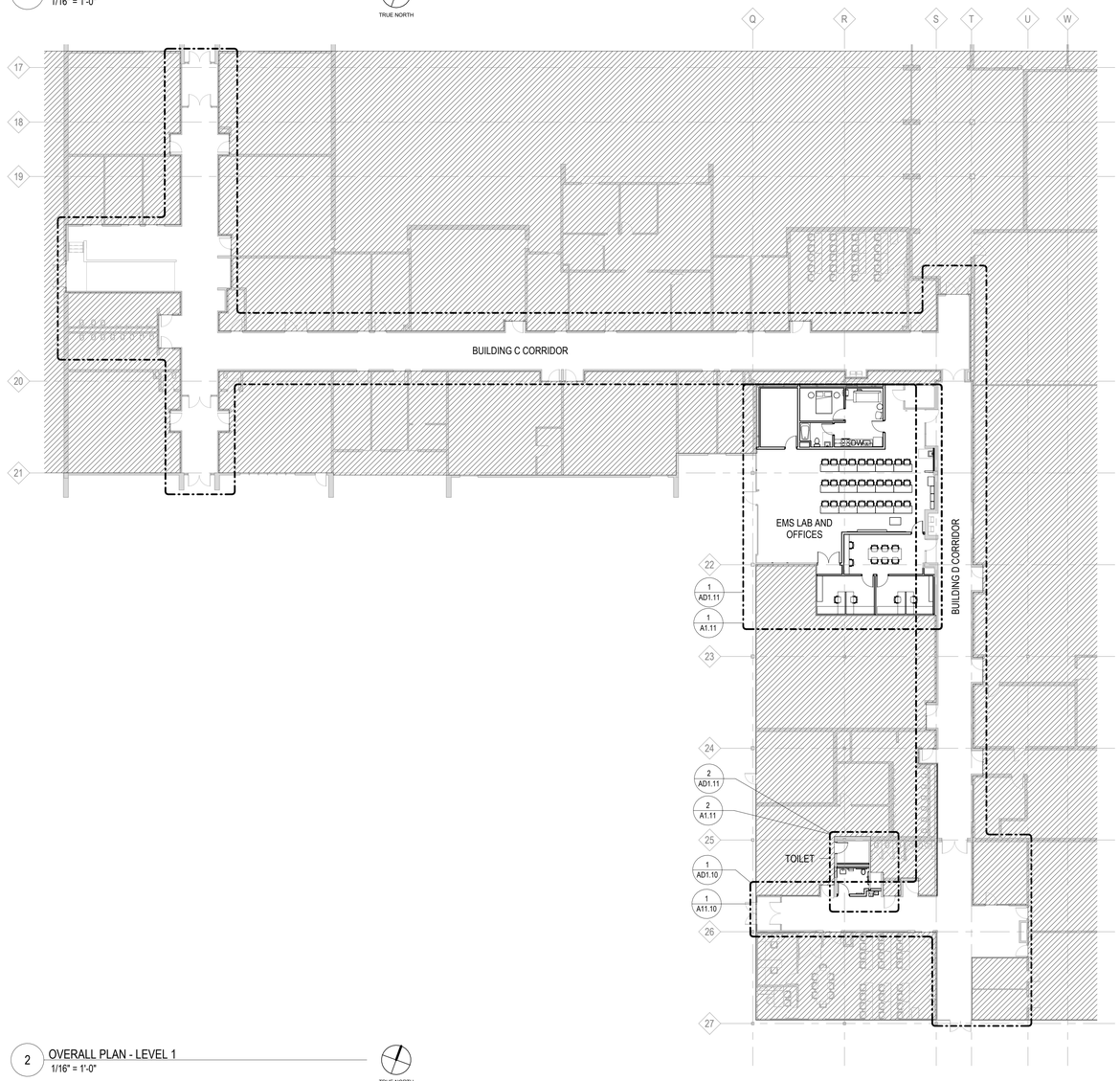


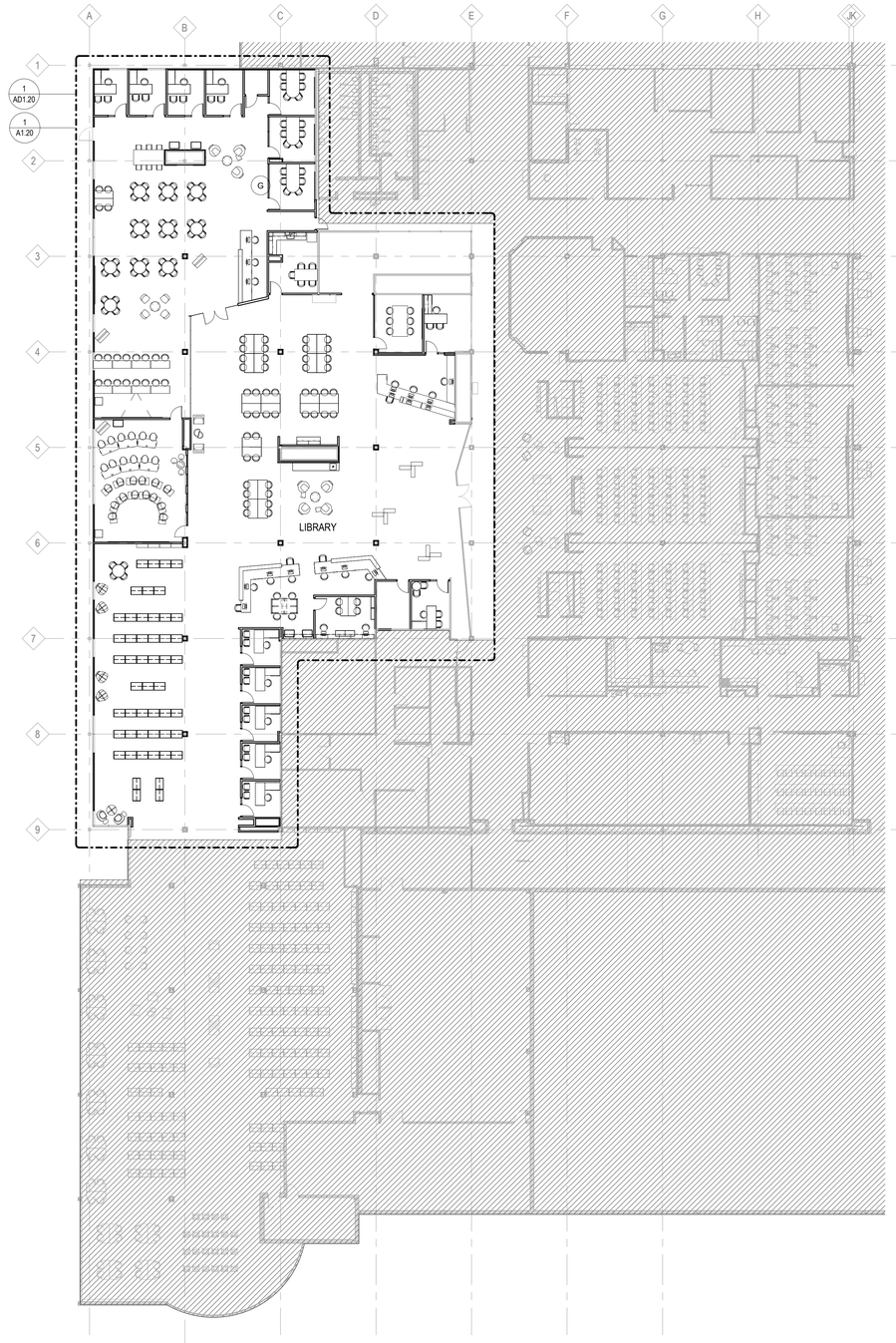
1 OVERALL PLAN - LEVEL 1
1/16" = 1'-0"

TRUE NORTH



2 OVERALL PLAN - LEVEL 1
1/16" = 1'-0"

TRUE NORTH



3 OVERALL PLAN - LEVEL 2
1/16" = 1'-0"

TRUE NORTH

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO:24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
OVERALL PLANS

SHEET NUMBER:
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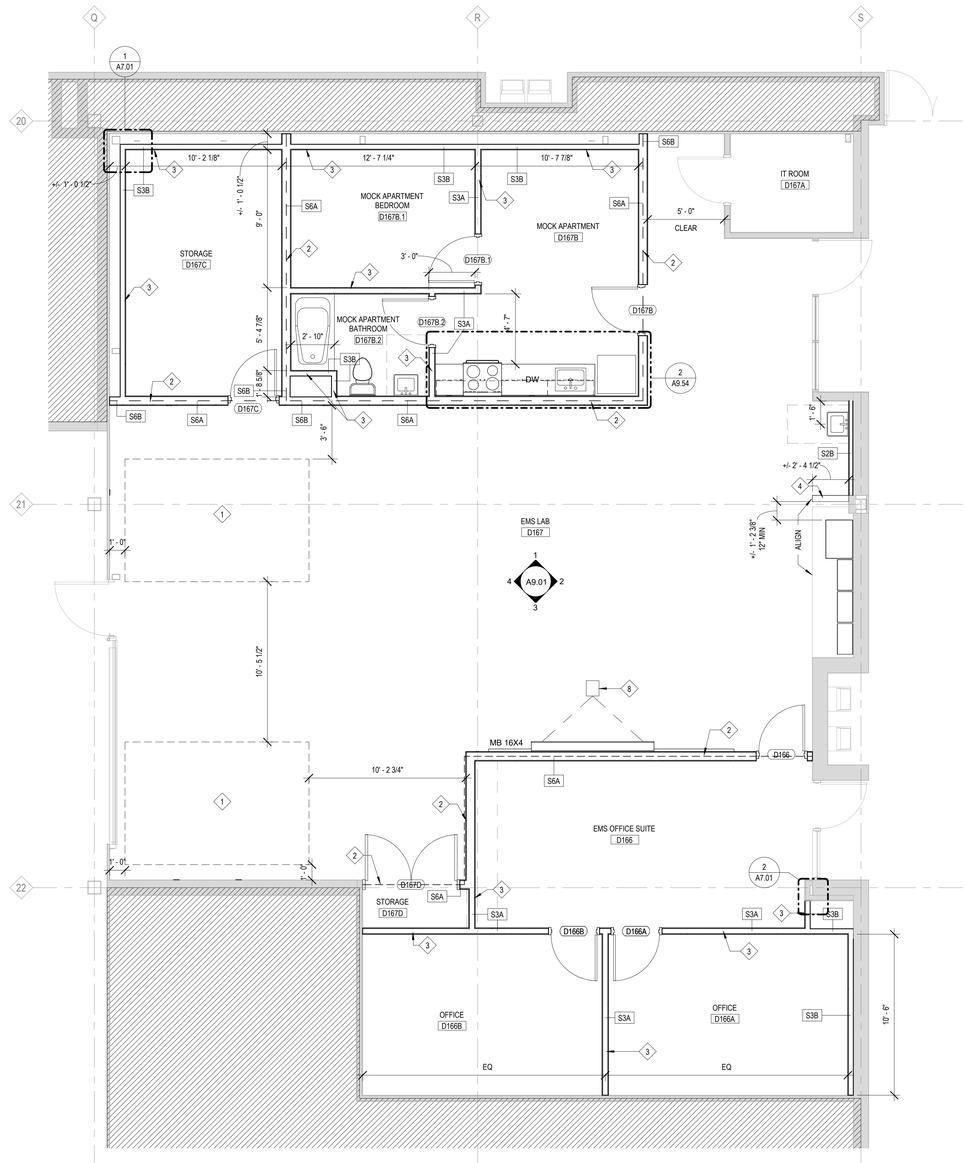
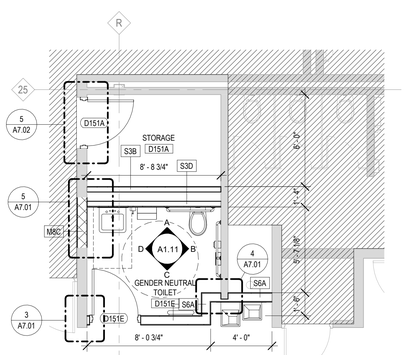


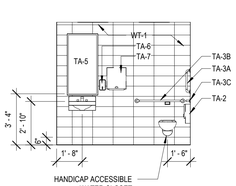
1 FLOOR PLAN - EMS
1/4" = 1'-0"

TRUE NORTH

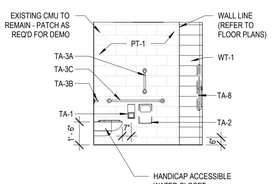


2 FLOOR PLAN - GENDER NEUTRAL TOILET
1/4" = 1'-0"

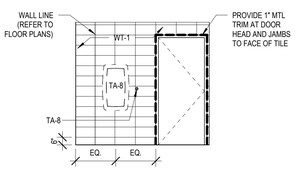
TRUE NORTH



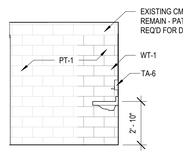
A TOILET - NORTH ELEVATION
1/4" = 1'-0"



B TOILET - EAST ELEVATION
1/4" = 1'-0"



C TOILET - SOUTH ELEVATION
1/4" = 1'-0"



D TOILET - WEST ELEVATION
1/4" = 1'-0"

TOILET ACCESSORIES LEGEND

TA-1	TOILET PAPER DISPENSER (OFCI)
TA-2	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL (OFCI)
TA-3A	18" GRAB BAR
TA-3B	36" GRAB BAR
TA-3C	42" GRAB BAR
TA-5	2'-0" X 4'-0" FRAMED MIRROR
TA-6	WALL MOUNTED SOAP DISPENSER (OFCI)
TA-7	RECESSED PAPER TOWEL AND WASTE COMBO (OFCI)
TA-8	WALL MOUNTED BABY CHANGING STATION WITH STAINLESS STEEL BAG HOOK (CFCI)

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- GREYTONE LINES DEPICT EXISTING CONSTRUCTION
- EXISTING DOOR
- NEW WALL CONSTRUCTION
- NEW DOOR
- ROOM NAME / 101 — ROOM TAG
- XXXX — DOOR / FRAME TAG
- XX — WINDOW TAG
- S2 A A — MODIFIER DESIGNATION - REFER TO A10.01 FOR MORE DETAILS; FRAMING DEPTH; PARTITION STYLE
- 1 SIM / AXX.XX — PLAN AND SECTION DETAIL CALLOUT
- 1 SIM / AXX.XX — SECTION CALLOUT
- 1 / A101 / 1 — ELEVATION CALLOUT
- DATUM ELEVATION — DATUM TAG
- 1 — NEW WORK REFERENCED NOTES
- FD — FLOOR DRAIN - REFER TO PLUMBING
- FE — WALL MOUNTED FIRE EXTINGUISHER
- FEC — SURFACE-MOUNTED EXTINGUISHER CABINET
- SFEC — SEMI-RECESSED EXTINGUISHER CABINET
- RFEC — RECESSED EXTINGUISHER CABINET
- X' X X' MB — HEIGHT X LENGTH SPECIFIED MARKERBOARD

FLOOR PLAN GENERAL NOTES:

1. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST / SECOND FLOOR FINISH ELEVATION OF 0 '-0".
2. REFER TO CODE PLANS ON SHEETS AC1.20 FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC.
3. DO NOT SCALE DRAWINGS.
4. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
5. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS AND IN-FIELD DIMENSIONS PRIOR TO COMMENCING WORK.
7. ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE.
8. PROVIDE ACCESS PANELS AT LOCATIONS INDICATED AND AS REQUIRED FOR ACCESS TO EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND ELECTRICAL WORK. PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH.
9. REFER TO A10.00 FOR INTERIOR PARTITION SCHEDULE. ALL INTERIOR PARTITIONS SHALL BE TYPE S1A, U.N.O.
10. PROVIDE SOLID FIRE RETARDANT TREATED WOOD BLOCKING, FLAT METAL STRAPS, OR METAL BACKING PLATES AT ALL WALL MOUNTED FIXTURES AND ACCESSORIES, INCLUDING BUT NOT LIMITED TO, DOOR STOPS, MILLWORK, DIGITAL DISPLAYS, VISUAL DISPLAY BOARDS, TOILET PARTITIONS, AND SIMILAR CONDITIONS.
11. PROVIDE MOISTURE RESISTANT GYP BD AT ALL PLUMBING PARTITIONS NOT SCHEDULED TO RECEIVE TILE.
12. SEE SPECIFICATIONS FOR ORIENTATION OF GYP BD PANELS, SIZING, AND SPACING OF METAL STUD FRAMING.
13. SEE INTERIOR ELEVATIONS FOR ANY GYP BD REVEAL PATTERNS.
14. AT FIRE-RESISTANCE-RATED SEPARATIONS...
    A. REFER TO CODE PLANS ON SHEETS AC1.20 FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC.
    B. AT SMOKE PARTITIONS, FIRE PARTITIONS AND FIRE BARRIERS, WALL ASSEMBLY CONSTRUCTION SHALL EXTEND FROM TOP OF FLOOR TO THE UNDERSIDE OF THE FLOOR, ROOF SLAB, OR DECK ABOVE.
    C. ALL PARTITIONS SHALL HAVE THE FOLLOWING PERMANENTLY AFFIXED MARKINGS AND IDENTIFICATION:
        a. 1/2" HIGH LETTERING, INDICATING RATING AND FIRE RESISTANCE RATED PARTITION TYPE, I.E. "2-HR FIRE WALL" OR "1-HR FIRE BARRIER", AND SHALL ALSO INCLUDE THE FOLLOWING SUFFIX: "PROTECT ALL OPENINGS AND PENETRATIONS".
        b. LOCATE LETTERING ABOVE ACCESSIBLE CEILINGS AT INTERVALS NOT TO EXCEED 30'-0". THERE SHOULD BE A MINIMUM OF ONE MARKING PER WALL, PER ROOM.

FLOOR PLAN REFERENCED NOTES:

1. AMBULANCE TRAINER, FURNISHED AND INSTALLED BY OWNER. CONTRACTOR TO COORDINATE FINAL UTILITY CONNECTION POINTS AND UTILITY REQUIREMENTS WITH EQUIPMENT CUTSHEETS PRIOR TO INSTALLATION.
2. EXTEND WALL TO DECK ABOVE. PROVIDE KICKERS AS REQUIRED TO BRACE BACK TO BUILDING STRUCTURE ABOVE. KICKERS ARE ACCEPTABLE ABOVE CEILINGS ONLY. NO KICKERS WILL BE ACCEPTABLE IN EXPOSED CEILING AREAS.
3. EXTEND WALL MIN 6" ABOVE ADJACENT CEILING. PROVIDE KICKERS TO STRUCTURE ABOVE OR BRACE TO WALL AS REQUIRED. KICKERS ARE ACCEPTABLE ABOVE CEILINGS ONLY. NO KICKERS WILL BE ACCEPTABLE IN EXPOSED CEILING AREAS.
4. PROVIDE A KNEE WALL, 4'-0" H FOR THE EXTENTS SHOWN. ANCHOR FRAMING TO FLOOR / WALL AS REQUIRED TO MINIMIZE ANY LATERAL MOVEMENT AT THE EXPOSED TOP CORNER. PROVIDE 1" THICK, CONT. PLANK (PL-5) CAP AT THE TOP OF THE KNEE WALL.
5. NOT USED.
6. MONITOR, OFOI. REFER TO ELEC FOR UTILITY REQUIREMENTS. REFER TO INTERIOR ELEVATIONS FOR INSTALLATION LOCATION.
7. INFILL OPENING WITH GYP WALL TO MATCH EXISTING ADJACENT WALL CONSTRUCTION - TIE INTO JAMBS / HEAD AS REQUIRED FOR FLUSH INSTALLATION (REFER TO DEMO).
8. PROJECTOR, OFOI.
9. POLE MOUNT MONITOR, OFOI. REFER TO ELEC FOR UTILITY REQUIREMENTS.
10. EXISTING TELEPHONE PANEL TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION AND PAINT COVER TO MATCH NEW WALL FINISH (REFER TO ELEC).
11. PROVIDE GYP ON METAL STUD HEADER ABOVE WINDOW ON EXISTING METAL PANELS. ALIGN WITH FACE AND HEIGHT OF ADJACENT NEW WALLS AND SEAL TO WINDOW FRAME.
12. CONDUITS AND PIPING FROM IT SERVER ROOM BELOW TO ROOF ABOVE. CORE SLAB AS REQUIRED FOR NEW WORK AND SEAL WITH 1 HOUR RATED FIRESTOPPING. REFER TO MEP DRAWINGS FOR PIPING SIZES/ LAYOUT.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO:24-031

KEY PLAN:

SHEET STATUS: 10/17/2024

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
FLOOR PLANS

SHEET NUMBER:
A1.11

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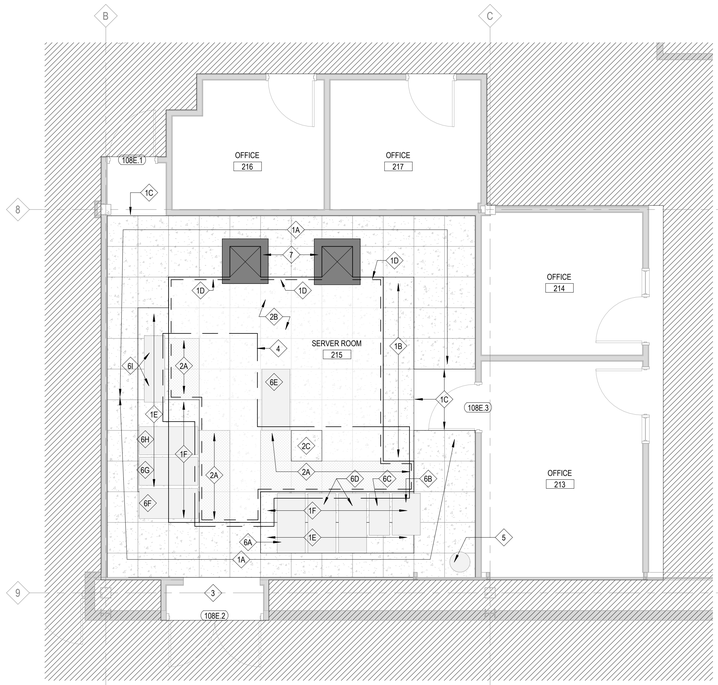
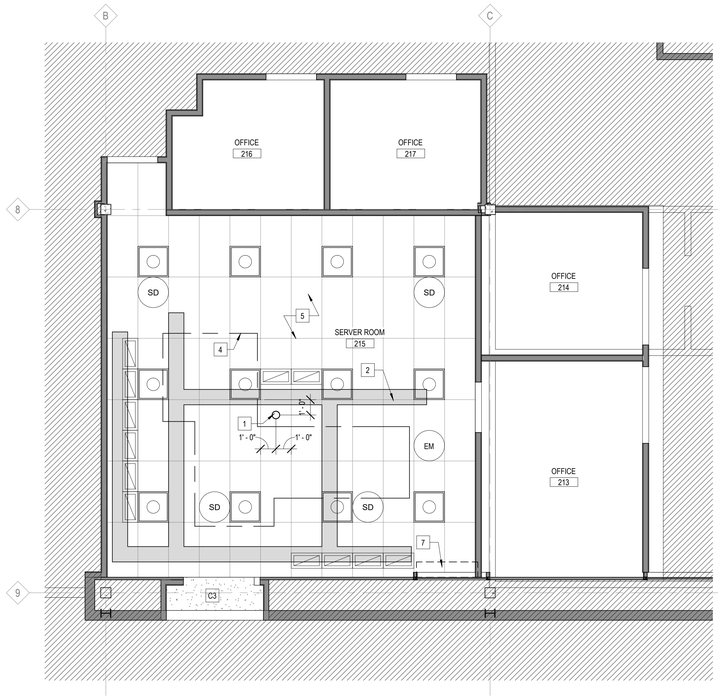


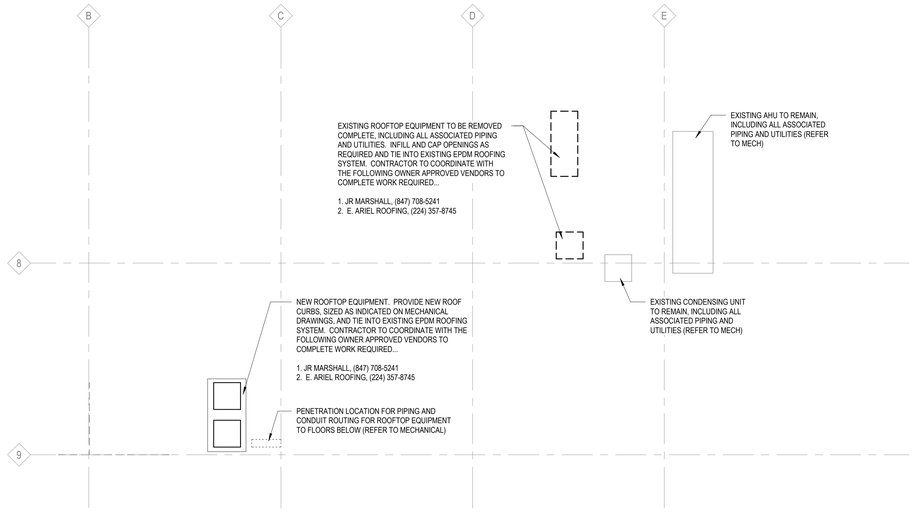
1 FLOOR PLAN - SERVER ROOM
1/4" = 1'-0"

TRUE NORTH



2 REFLECTED CEILING PLAN - SERVER ROOM
1/4" = 1'-0"

TRUE NORTH



3 ROOF PLAN - SERVER ROOM
1/8" = 1'-0"

RCP SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- XXX / X'-X" — CEILING TYPE / CEILING ELEVATION AFF
- SUSPENDED ACOUSTICAL TILE CEILING
- RECESSED 2'x4' LIGHT FIXTURE
- RECESSED 2'x2' FLUORESCENT FIXTURE
- SPRINKLER HEAD
- SOLID HATCH DENOTES EXIT SIGN FACE PLATE / DIRECTION OF EGRESS
- EXIT SIGN, WALL MOUNTED
- (H) HEAT DETECTOR
- (SD) SMOKE DETECTOR
- (EM) EMERGENCY LIGHT (REFER TO ELEC)
- RETURN AIR GRILLE
- SUPPLY AIR GRILLE

RCP GENERAL NOTES:

1. ALL HEATING, VENTILATION, ELECTRICAL, PLUMBING, AND FIRE PROTECTION ITEMS ARE SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS FOR REFERENCE AND COORDINATION ONLY. REFER TO HEATING, VENTILATION, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR ACTUAL QUANTITIES. IN CASE OF CONFLICT THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN LOCATION OF THESE ITEMS.
2. IN AREAS THAT DO NOT HAVE ARCHITECTURAL REFLECTED CEILING PLANS YET REQUIRE NEW ITEMS TO BE INSTALLED IN OR ABOVE THE CEILING PLANE, CONTRACTOR SHALL REMOVE AND REINSTALL, REPLACE OR MODIFY EXISTING CEILING CONSTRUCTION TO ACCOMMODATE NEW WORK. ANY NEW CEILING AREAS SHALL MATCH EXISTING ADJACENT FINISHES.
3. CENTER ALL FIXTURES IN CEILING TILES AND FIELD VERIFY GRID LAYOUT FOR PROPER FIXTURE LOCATION. ALIGN ALL FIXTURES IN BOTH DIRECTIONS OF CEILING TILE. (UNO)
4. CENTER ALL SPRINKLER HEADS IN CEILING TILES.
5. ALL GYP. BD. CEILINGS TO BE PAINTED PT-1 UNLESS OTHERWISE NOTED ON PLANS
6. EXTEND FACE OF ALL GYP. BD. SOFFITS AND HEADERS TO FINISHED CEILING ABOVE U.N.O.

RCP REFERENCED NOTES:

1. EXISTING FM200 SPRINKLER SYSTEM HEAD TO REMAIN. MODIFY BRANCH PIPING AS REQUIRED FOR NEW MECHANICAL LAYOUT. REFER TO MECHANICAL-PLUMBING DRAWINGS.
2. EXISTING CABLE TRAY SYSTEM TO REMAIN. COORDINATE SUPPORT PENETRATIONS THROUGH CEILING WITH NEW CEILING SYSTEM.
3. LOCATION OF NEW PIPING ROUTING FROM HVAC EQUIPMENT. CORE THROUGH SLAB AND ROOF DECK ABOVE AS REQUIRED TO GET TO NEW ROOFTOP EQUIPMENT. REFER TO OVERALL PLANS FOR SCOPE OF WORK AT 2ND FLOOR OR ROOF.
4. COLD AISLE CONTAINMENT SYSTEM (REFER TO MECH)
5. PROVIDE 2X4 SAT CEILING SYSTEM. REFER TO BELOW FOR PRODUCT DETAILS.
   A. ARMSTRONG CORTEGA SECOND LOOK II, 24X48 TILES WITH PRELUDE XL FIREGUARD SUSPENSION SYSTEM IN WHITE FINISH.
   B. COORDINATE CEILING TILES AROUND EXISTING PENETRATIONS TO REMAIN AND NEW PENETRATIONS. SEAL ALL PENERATIONS THROUGH CEILING TILES FOR AIRTIGHT INSTALLATION. REFER TO MEP FOR ADDITIONAL PENETRATION LOCATIONS.
   C. PROVIDE HOLD DOWN CLIPS AT ALL CEILING TILES IN FINAL INSTALLATION.
   D. INSTALL AT 9'-0" AFF (8'-4" ABOVE RAISED FLOOR SYSTEM). COORDINATE WITH MECHANICAL LAYOUT TO CONFIRM FINAL CEILING HEIGHT AND NOTIFY A/E IF A LOWER CEILING HEIGHT IS REQUIRED.

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- GREYTONE LINES DEPICT EXISTING CONSTRUCTION
- EXISTING DOOR
- NEW WALL CONSTRUCTION
- NEW DOOR
- ROOM NAME / 101 — ROOM TAG
- XXXX — DOOR / FRAME TAG
- XX — WINDOW TAG
- S2 A A — MODIFIER DESIGNATION - REFER TO A10.01 FOR MORE DETAILS / FRAMING DEPTH / PARTITION STYLE
- 1 SIM / AXX.XX — PLAN AND SECTION DETAIL CALLOUT
- 1 SIM / AXX.XX — SECTION CALLOUT
- 1 / 1 A101 1 / 1 — ELEVATION CALLOUT
- DATUM / ELEVATION — DATUM TAG
- 1 — NEW WORK REFERENCED NOTES
- FD — FLOOR DRAIN - REFER TO PLUMBING
- FE — WALL MOUNTED FIRE EXTINGUISHER
- FEC — SURFACE-MOUNTED EXTINGUISHER CABINET
- SFEC — SEMI-RECESSED EXTINGUISHER CABINET
- RFEC — RECESSED EXTINGUISHER CABINET
- X' X X" MB — HEIGHT X LENGTH SPECIFIED MARKERBOARD

FLOOR PLAN GENERAL NOTES:

1. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0".
2. DO NOT SCALE DRAWINGS.
3. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
4. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS AND IN-FIELD DIMENSIONS PRIOR TO COMMENCING WORK.
6. ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE.
7. PROVIDE ACCESS PANELS AT LOCATIONS INDICATED AND AS REQUIRED FOR ACCESS TO EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND ELECTRICAL WORK. PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH.
8. ***EXISTING IT SERVER SYSTEM AND ALL ASSOCIATED EQUIPMENT, UTILITIES, CABLING, AND ACCESSORIES SHALL REMAIN OPERATIONAL THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE IT SYSTEM THROUGHOUT CONSTRUCTION WITHOUT ANY INTERRUPTION IN SERVICE. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY SUPPORT OR TEMPORARY SHIFT / RELOCATION OF IT EQUIPMENT AS REQUIRED FOR DEMO OR NEW WORK NOTED. ALL PROPOSED SUPPORT OR RELOCATION OF IT EQUIPMENT SHALL BE REVIEWED WITH OWNER PRIOR TO COMMENCEMENT.***

FLOOR PLAN REFERENCED NOTES:

1. NEW RAISED FLOORING SYSTEM, RLE TECHNOLOGIES, TRIAD SYSTEM. CONTACT ALAN CARLSON (970.225.5437, ACARLSON@RLETECH.COM) FOR MATERIAL PRICING, QUOTE NUMBER XX-XXXX. PROVIDE A COMPLETE SYSTEM, INCLUDING ALL TILES, SUPPORT GRID, EDGE TRIM PANELS, CORNER TRANSITIONS, VERTICAL EDGE PANELS, AND ANY OTHER REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION. TIE NEW SUPPORT SYSTEM INTO EXISTING TILE / SUPPORT SYSTEM. REFER TO NOTES BELOW FOR SPECIFIC SYSTEM REQUIREMENTS.
   A. PROVIDE SOLID STEEL TILE, 4000 LB WEIGHT LIMIT IN GRAY FINISH, ON NEW SUPPORT SYSTEM.
   B. PROVIDE SALVAGED SOLID STEEL TILE, GENESIS FINISH, ON NEW SUPPORT SYSTEM.
   C. PROVIDE SOLID END PANEL AT LOCATIONS INDICATED, GRAY FINISH.
   D. PROVIDE UNDERFLOOR BLANK-OFF PLENUM PANELS AT LOCATIONS INDICATED WITH ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION. SEAL PLENUM PANELS TO SLAB BELOW FOR AIRTIGHT SYSTEM. TIE PANELS INTO HVAC PLENUM PANELS FOR COMPLETE ENCLOSURE.
   E. **BASE BID:** PROVIDE SOLID STEEL TILE, 4000 LB WEIGHT LIMIT IN GRAY FINISH, ON NEW SUPPORT SYSTEM. **ALT BID NO. 4:** LEAVE EXISTING PLAM RAISED FLOOR SYSTEM TO REMAIN.
   F. **BASE BID:** PROVIDE SALVAGED SOLID STEEL TILE, GENESIS FINISH, ON NEW SUPPORT SYSTEM. **ALT BID NO. 4:** LEAVE EXISTING PLAM RAISED FLOOR SYSTEM TO REMAIN.
2. EXISTING RAISED FLOORING SYSTEM, INCLUDING ALL FLOOR PANELS, SUPPORTS, AND ACCESSORIES TO REMAIN. REFER TO NOTES BELOW FOR FLOOR PANEL TYPES NOTED.
   A. EXISTING VENTED TILE, GENESIS FINISH TO REMAIN.
   B. EXISTING SOLID TILE, GENESIS FINISH TO REMAIN.
   C. PROVIDE SALVAGED SOLID STEEL TILE, GENESIS FINISH, ON EXISTING SUPPORT SYSTEM.
3. EXISTING RAISED PLAM FLOORING SYSTEM TO REMAIN.
4. COLD AISLE CONTAINMENT SYSTEM (REFER TO MECH)
5. EXISTING FM200 SYSTEM TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION AND MODIFY AS REQUIRED FOR NEW WORK.
6. EXISTING EQUIPMENT TO REMAIN. SEE BELOW FOR SPECIFIC EQUIPMENT TYPE AND ESTIMATED WEIGHT. REFER TO FLOOR PLAN GENERAL NOTE 8 FOR ADDITIONAL SCOPE.
   A. SERVER RACK, 1400 LBS
   B. UPS BATTERY BACK-UP UNIT, 1650 LBS
   C. UPS BATTERY BACK-UP UNIT, 1400 LBS
   D. UPS BATTERY BACK-UP RACK, 1650 LBS
   E. SERVER RACK, 750 LBS
   F. SERVER RACK, 870 LBS
   G. SERVER RACK, 625 LBS
   H. SERVER RACK, 600 LBS
   I. (2) SERVER RACKS, 400 LBS AND 300 LBS (700 LBS TOTAL)
7. NEW HVAC SYSTEM. LEAVE OPEN 2X2 TILE BELOW UNIT FOR SUPPLY AIR. (REFER TO MEP)

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO:24-031

KEY PLAN:

SHEET STATUS: 10/17/2024

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:

FLOOR PLANS

SHEET NUMBER:

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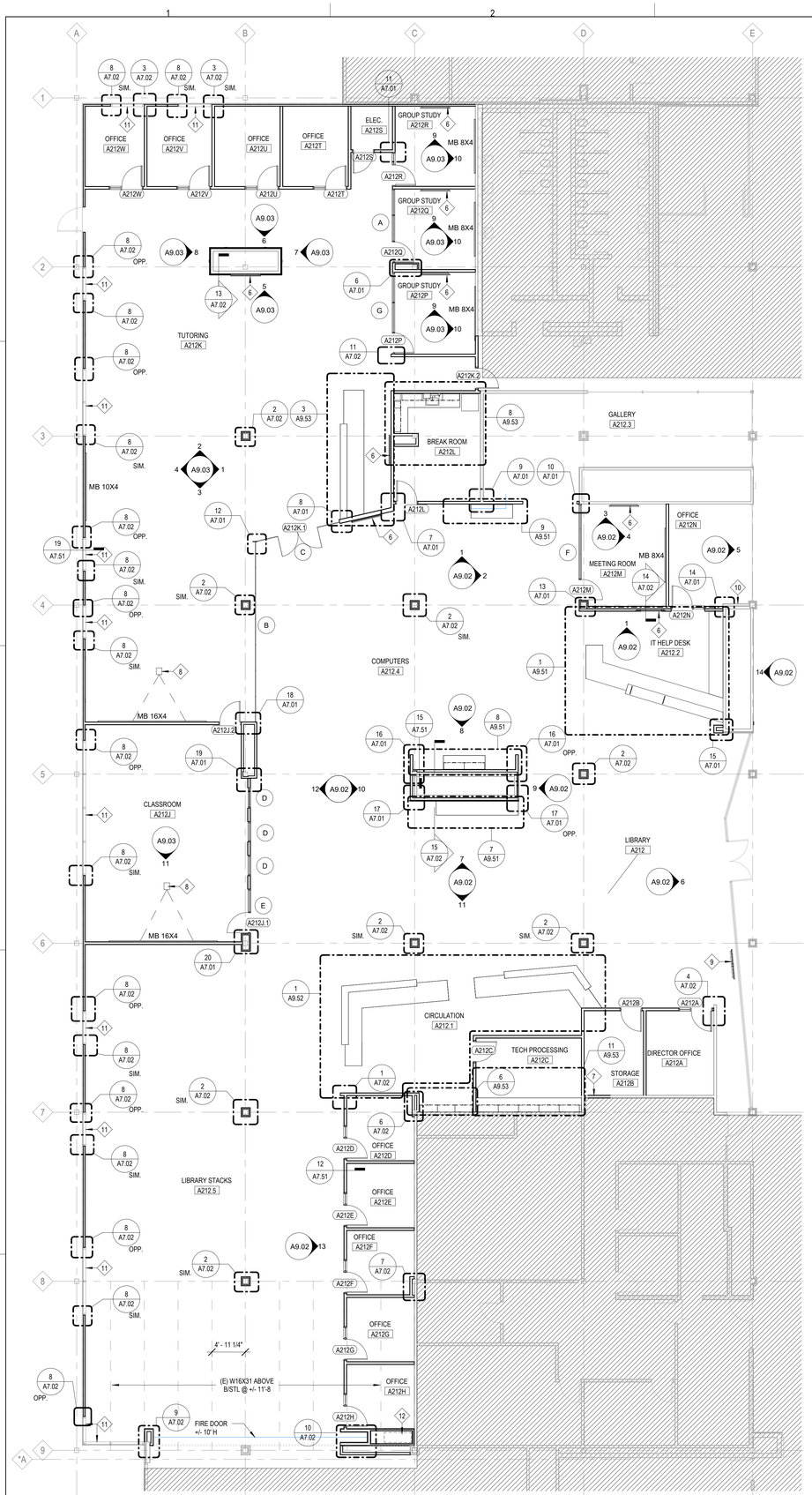
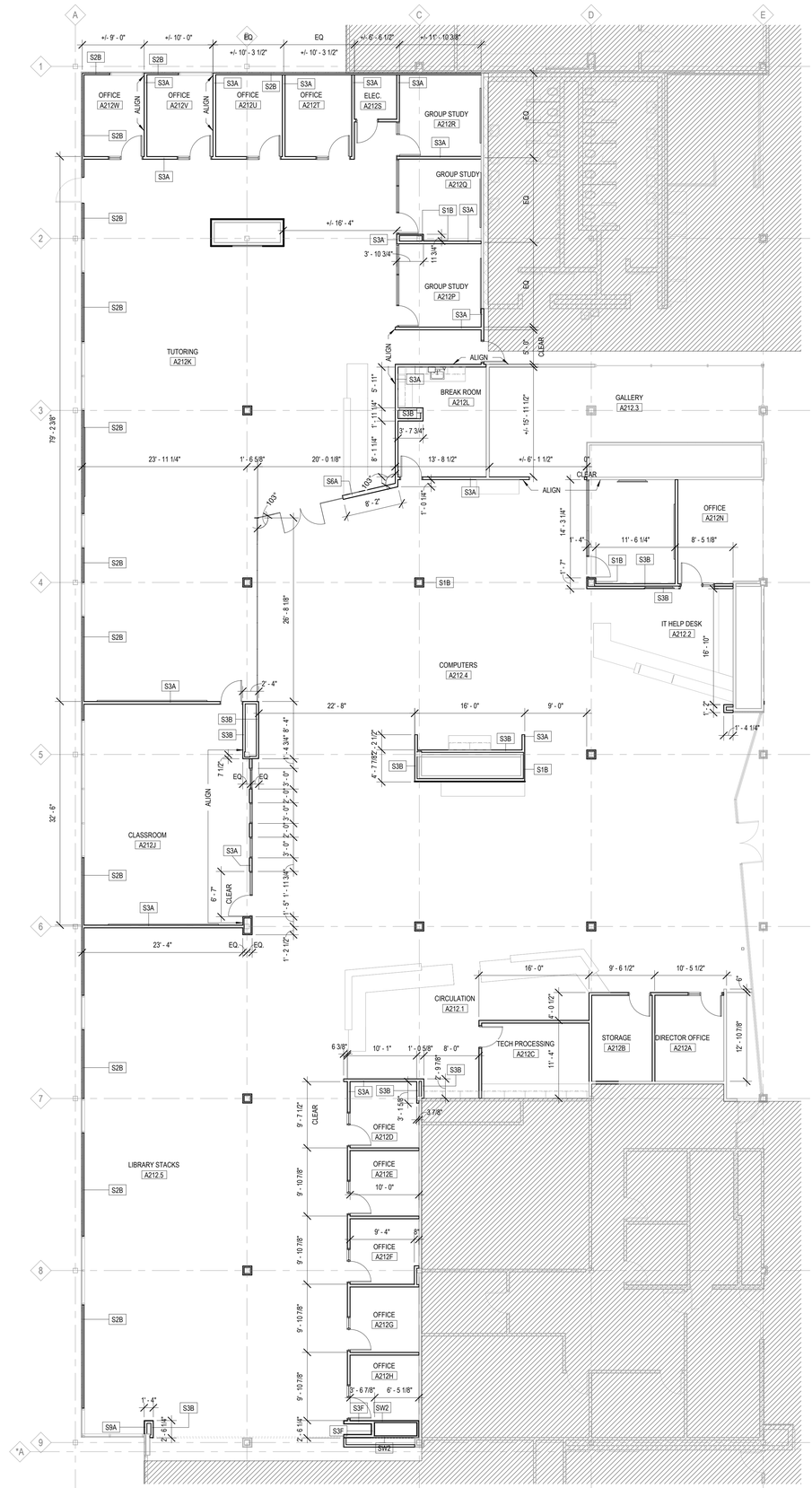


1 FLOOR PLAN - LIBRARY
1/8" = 1'-0"

TRUE NORTH



2 DIMENSION PLAN - LIBRARY
1/8" = 1'-0"

TRUE NORTH

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- GREYTONE LINES DEPICT EXISTING CONSTRUCTION
- EXISTING DOOR
- NEW WALL CONSTRUCTION
- NEW DOOR
- ROOM NAME 101 — ROOM TAG
- XXXX — DOOR / FRAME TAG
- XX — WINDOW TAG
- S2 A A — MODIFIER DESIGNATION - REFER TO A10.01 FOR MORE DETAILS; FRAMING DEPTH; PARTITION STYLE
- 1 SIM A/XX.XX — PLAN AND SECTION DETAIL CALLOUT
- 1 SIM A/XX.XX — SECTION CALLOUT
- 1 A101 1 — ELEVATION CALLOUT
- DATUM ELEVATION — DATUM TAG
- 1 — NEW WORK REFERENCED NOTES
- FD — FLOOR DRAIN - REFER TO PLUMBING
- FE — WALL MOUNTED FIRE EXTINGUISHER
- FEC — SURFACE-MOUNTED EXTINGUISHER CABINET
- SFEC — SEMI-RECESSED EXTINGUISHER CABINET
- RFEC — RECESSED EXTINGUISHER CABINET
- X' X X' MB — HEIGHT X LENGTH SPECIFIED MARKERBOARD

FLOOR PLAN GENERAL NOTES:

1. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST / SECOND FLOOR FINISH ELEVATION OF 0 '-0".
2. REFER TO CODE PLANS ON SHEETS AC1.20 FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC.
3. DO NOT SCALE DRAWINGS.
4. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
5. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS AND IN-FIELD DIMENSIONS PRIOR TO COMMENCING WORK.
7. ALL INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE.
8. PROVIDE ACCESS PANELS AT LOCATIONS INDICATED AND AS REQUIRED FOR ACCESS TO EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND ELECTRICAL WORK. PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH.
9. REFER TO A10.00 FOR INTERIOR PARTITION SCHEDULE. ALL INTERIOR PARTITIONS SHALL BE TYPE S1A, U.N.O.
10. PROVIDE SOLID FIRE RETARDANT TREATED WOOD BLOCKING, FLAT METAL STRAPS, OR METAL BACKING PLATES AT ALL WALL MOUNTED FIXTURES AND ACCESSORIES, INCLUDING BUT NOT LIMITED TO, DOOR STOPS, MILLWORK, DIGITAL DISPLAYS, VISUAL DISPLAY BOARDS, TOILET PARTITIONS, AND SIMILAR CONDITIONS.
11. PROVIDE MOISTURE RESISTANT GYP BD AT ALL PLUMBING PARTITIONS NOT SCHEDULED TO RECEIVE TILE.
12. SEE SPECIFICATIONS FOR ORIENTATION OF GYP BD PANELS, SIZING, AND SPACING OF METAL STUD FRAMING.
13. SEE INTERIOR ELEVATIONS FOR ANY GYP BD REVEAL PATTERNS.
14. AT FIRE-RESISTANCE-RATED SEPARATIONS...
    - A. REFER TO CODE PLANS ON SHEETS AC1.20 FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC.
    - B. AT SMOKE PARTITIONS, FIRE PARTITIONS AND FIRE BARRIERS, WALL ASSEMBLY CONSTRUCTION SHALL EXTEND FROM TOP OF FLOOR TO THE UNDERSIDE OF THE FLOOR, ROOF SLAB, OR DECK ABOVE.
    - C. ALL PARTITIONS SHALL HAVE THE FOLLOWING PERMANENTLY AFFIXED MARKINGS AND IDENTIFICATION:
      - a. 1/2" HIGH LETTERING, INDICATING RATING AND FIRE RESISTANCE RATED PARTITION TYPE, I.E. "2-HR FIRE WALL" OR "1-HR FIRE BARRIER", AND SHALL ALSO INCLUDE THE FOLLOWING SUFFIX: "PROTECT ALL OPENINGS AND PENETRATIONS".
      - b. LOCATE LETTERING ABOVE ACCESSIBLE CEILINGS AT INTERVALS NOT TO EXCEED 30'-0". THERE SHOULD BE A MINIMUM OF ONE MARKING PER WALL, PER ROOM.

FLOOR PLAN REFERENCED NOTES:

1. AMBULANCE TRAINER, FURNISHED AND INSTALLED BY OWNER. CONTRACTOR TO COORDINATE FINAL UTILITY CONNECTION POINTS AND UTILITY REQUIREMENTS WITH EQUIPMENT CUTSHEETS PRIOR TO INSTALLATION.
2. EXTEND WALL TO DECK ABOVE. PROVIDE KICKERS AS REQUIRED TO BRACE BACK TO BUILDING STRUCTURE ABOVE. KICKERS ARE ACCEPTABLE ABOVE CEILINGS ONLY. NO KICKERS WILL BE ACCEPTABLE IN EXPOSED CEILING AREAS.
3. EXTEND WALL MIN 6" ABOVE ADJACENT CEILING. PROVIDE KICKERS TO STRUCTURE ABOVE OR BRACE TO WALL AS REQUIRED. KICKERS ARE ACCEPTABLE ABOVE CEILINGS ONLY. NO KICKERS WILL BE ACCEPTABLE IN EXPOSED CEILING AREAS.
4. PROVIDE A KNEE WALL, 4'-0" H FOR THE EXTENTS SHOWN. ANCHOR FRAMING TO FLOOR / WALL AS REQUIRED TO MINIMIZE ANY LATERAL MOVEMENT AT THE EXPOSED TOP CORNER. PROVIDE 1" THICK, CONT. P-LAM (PL-5) CAP AT THE TOP OF THE KNEE WALL.
5. NOT USED.
6. MONITOR, OFOI. REFER TO ELEC FOR UTILITY REQUIREMENTS. REFER TO INTERIOR ELEVATIONS FOR INSTALLATION LOCATION.
7. INFILL OPENING WITH GYP WALL TO MATCH EXSITING ADJACENT WALL CONSTRUCTION - TIE INTO JAMBS / HEAD AS REQUIRED FOR FLUSH INSTALLATION (REFER TO DEMO).
8. PROJECTOR, OFOI.
9. POLE MOUNT MONITOR, OFOI. REFER TO ELEC FOR UTILITY REQUIREMENTS.
10. EXISTING TELEPHONE PANEL TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION AND PAINT COVER TO MATCH NEW WALL FINISH (REFER TO ELEC).
11. PROVIDE GYP ON METAL STUD HEADER ABOVE WINDOW ON EXISTING METAL PANELS. ALIGN WITH FACE AND HEIGHT OF ADJACENT NEW WALLS AND SEAL TO WINDOW FRAME.
12. CONDUITS AND PIPING FROM IT SERVER ROOM BELOW TO ROOF ABOVE. CORE SLAB AS REQUIRED FOR NEW WORK AND SEAL WITH 1 HOUR RATED FIRESTOPPING. REFER TO MEP DRAWINGS FOR PIPING SIZES/ LAYOUT.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO:24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
FLOOR PLANS

SHEET NUMBER:
A1.20

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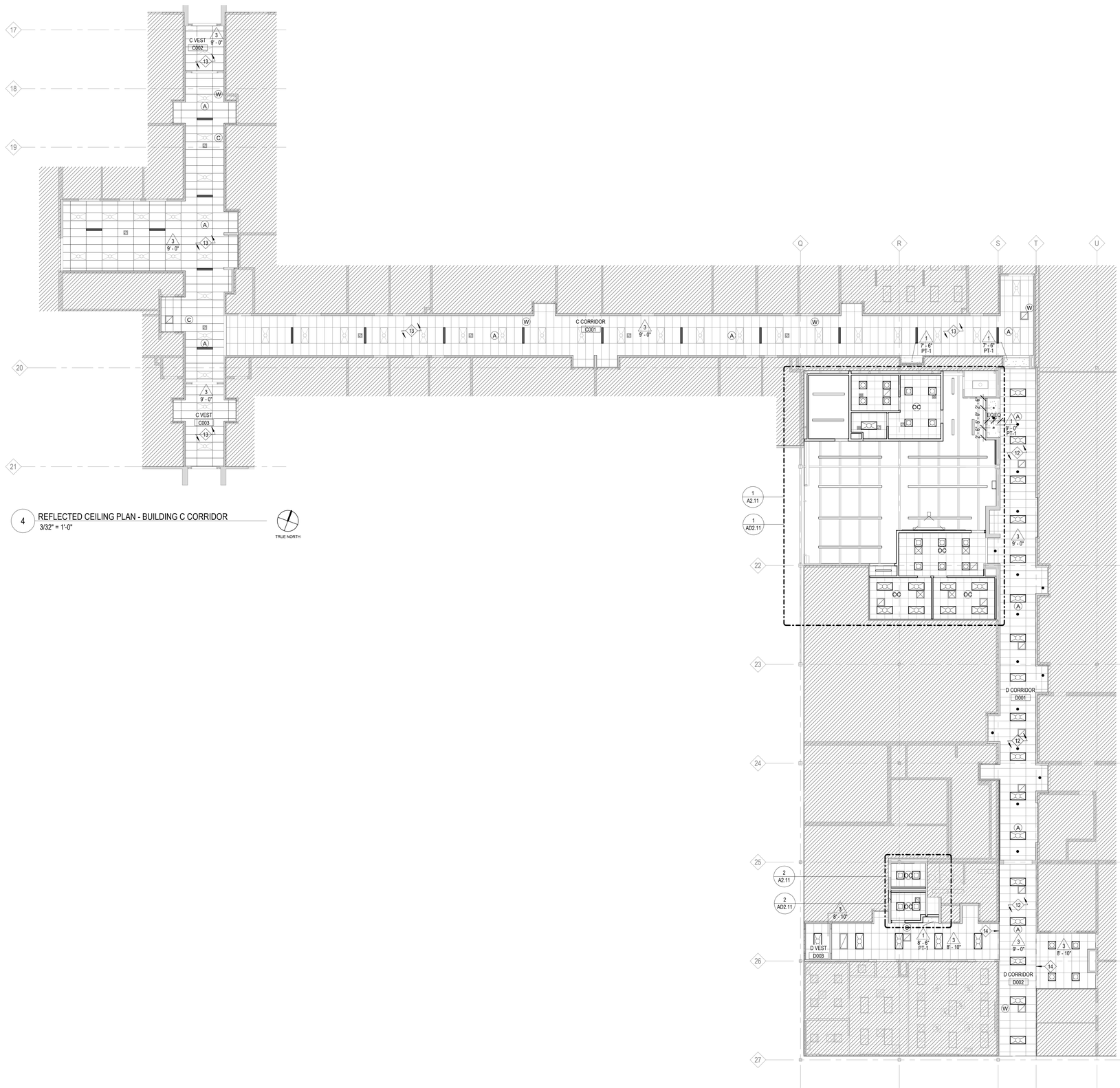

4 REFLECTED CEILING PLAN - BUILDING C CORRIDOR
3/32" = 1'-0"

TRUE NORTH

RCP SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- CEILING TYPE
- CEILING ELEVATION AFF
- SUSPENDED ACOUSTICAL TILE CEILING
- GYPSUM BOARD CEILING OR SOFFIT
- LINEAR WOOD SLAT CEILING SYSTEM
- WOOD PANEL CEILING
- ROLLER SHADE (TYP.)
- RECESSED 2'x4' LIGHT FIXTURE
- RECESSED 1'x4' LIGHT FIXTURE
- RECESSED 2'x2' FIXTURE
- RECESSED LINEAR FIXTURE
- SMALL PENDANT LIGHT FIXTURE
- PENDANT LIGHT MOUNT FIXTURE
- RECESSED DOWN LIGHT
- PENDANT LIGHT MOUNT LINEAR FIXTURE
- PENDANT LIGHT HUNG STRIP FIXTURE
- SPRINKLER HEAD
- MOTORIZED SCREEN
- CEILING MOUNTED PROJECTOR
- SOLID HATCH DENOTES EXIT SIGN FACE PLATE
- DIRECTION OF EGRESS
- EXIT SIGN, WALL MOUNTED
- HEAT DETECTOR
- SMOKE DETECTOR
- FIRE ALARM DEVICE
- SPEAKER
- CLOSED CIRCUIT CAMERA
- OCCUPANT SENSOR
- WIRELESS ACCESS POINT
- LIGHT SENSOR
- RETURN AIR GRILLE
- SUPPLY AIR GRILLE
- LINEAR DIFFUSER - SUPPLY/RETURN
- ACCESS PANEL

RCP GENERAL NOTES:

1. ALL HEATING, VENTILATION, ELECTRICAL, PLUMBING, AND FIRE PROTECTION ITEMS ARE SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS FOR REFERENCE AND COORDINATION ONLY. REFER TO HEATING, VENTILATION, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR ACTUAL QUANTITIES. IN CASE OF CONFLICT THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN LOCATION OF THESE ITEMS.
2. IN AREAS THAT DO NOT HAVE ARCHITECTURAL REFLECTED CEILING PLANS YET REQUIRE NEW ITEMS TO BE INSTALLED IN OR ABOVE THE CEILING PLANE, CONTRACTOR SHALL REMOVE AND REINSTALL, REPLACE OR MODIFY EXISTING CEILING CONSTRUCTION TO ACCOMMODATE NEW WORK. ANY NEW CEILING AREAS SHALL MATCH EXISTING ADJACENT FINISHES.
3. CENTER ALL FIXTURES IN CEILING TILES AND FIELD VERIFY GRID LAYOUT FOR PROPER FIXTURE LOCATION. ALIGN ALL FIXTURES IN BOTH DIRECTIONS OF CEILING TILE. (UNO)
4. CENTER ALL SPRINKLER HEADS IN CEILING TILES.
5. ALL GYP. BD. CEILINGS TO BE PAINTED PT-1 UNLESS OTHERWISE NOTED ON PLANS
6. EXTEND FACE OF ALL GYP. BD. SOFFITS AND HEADERS 6" MIN. BEYOND FINISHED CEILING ABOVE U.N.O.

RCP REFERENCED NOTES:

1. PROVIDE NEW ROLLER SHADE. INSTALL AT TOP OF EXISTING WINDOW FRAME - FIELD VERIFY WIDTH PRIOR TO PROCUREMENT AND INSTALLATION (REFER TO SPECS).
2. EXISTINGS RADIANT HEATING TILE TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
3. EXISTING CEILING TO REMAIN - PULL BACK GRID AND REMOVE TILES AS NEEDED FOR NEW WALL CONSTRUCTION. RE-INSTALL GRID TO NEW WALL AND CUT TILES AS REQUIRED FOR NEW WALL LAYOUT.
4. TIE-IN NEW CEILING SYSTEM TO EXISTING CEILING SYSTEM. ALIGN NEW GRIDS WITH EXISTING LAYOUT.
5. PROVIDE NEW GYP. BOARD ON METAL STUD CEILING AND SOFFIT SYSTEM TO MATCH EXISTING. PAINT GYP. PT-5 TO MATCH EXISTING SOFFIT TO REMAIN.
6. NEW RECESSED DOWNLIGHTS IN EXISTING SOFFIT (REFER TO ELEC). CUT AND PATCH CEILING AS REQUIRED FOR INSTALLATION OF NEW LIGHT FIXTURES.
7. MODIFY TRACK LIGHTING AS REQUIRED FOR REDUCED OVERALL LENGTH (REFER TO ELEC). CUT AND PATCH CEILING AS REQUIRED. TURN OVER ANY EXTRA LIGHT FIXTURES TO THE OWNER.
8. MOUNT CONTINUOUS PENDANT AT 9'-0" AFF TO BOTTOM OF PENDANT.
9. MOUNT CONTINUOUS PENDANT AT 9'-4" AFF TO BOTTOM OF PENDANT.
10. MOUNT CONTINUOUS PENDANT AT 9'-8" AFF TO BOTTOM OF PENDANT.
11. PAINT BULKHEAD PT-7.
12. PROVIDE NEW CEILING TILES, LIGHTING, GRILLES AND DIFFUSERS IN EXISTING GRID AS INDICATED. RE-INSTALL EXISTING SPRINKLER HEADS AS REQUIRED. RE-INSTALL SALVAGED DEVICES IN NEW CEILING AS INDICATED ON ELECTRICAL DRAWINGS (REFER TO MEP DRAWINGS FOR ADDITIONAL SCOPE).
13. PROVIDE NEW SUSPENDED CEILING GRID SYSTEM, CEILING TILES, GRILLES, AND REGISTERS AS INDICATED. RE-INSTALL EXISTING SPRINKLER HEAD COVERPLATES IN NEW CEILING TILES. RE-INSTALL EXISTING LIGHT FIXTURES AND SALVAGED DEVICES IN NEW CEILING AS INDICATED ON ELECTRICAL DRAWINGS (REFER TO MEP DRAWINGS FOR ADDITIONAL SCOPE).
14. PROVIDE AXIOM TRIM AT CEILING TRANSITION (REFER TO RCP AND DETAILS FOR HEIGHT OF AXIOM TRIM REQUIRED).
15. PROVIDE 3/4" THICK X 2"W SOLID WOOD EDGE TRIM TO MATCH PERFORATED WOOD PANELS (PWP-1). TRIM TO BE FLUSH WITH PANELS.
16. INSTALL NEW CEILING GRID AND REINSTALL EXISTING TILES, LIGHTING, AND DEVICES SALVAGED DURING DEMOLITION. REPLACE ANY DAMAGED CEILING TILES WITH NEW AND PROVIDE NEW CEILING TILES AS REQUIRED FOR ADDITIONAL EXTENTS OF CEILING. COORDINATE SCHEDULING OF WORK WITH OWNER PRIOR TO COMMENCEMENT.
17. PROVIDE PERIMETER TRIM AT CEILING TRANSITION (REFER TO RCP AND DETAILS FOR HEIGHT OF TRIM REQUIRED).

CEILING TYPES:

TYPE	DESCRIPTION
0A	EXPOSED STRUCTURE - NO PAINTED FINISH REQUIRED
0B	EXPOSED STRUCTURE - PAINT ALL STRUCTURE AND MEP SYSTEMS ABOVE
1	1/2" PAINTED GYP BOARD ON METAL FRAMING
2A	2X2 WHITE ACOUSTICAL PANEL SYSTEM (2x3 @ SIM LOCATIONS INDICATED)
2B	2X2 BLACK ACOUSTICAL PANEL SYSTEM
3	2X4 SCORED ACOUSTICAL PANEL SYSTEM
4	2x4 PET ACOUSTICAL PANEL SYSTEM
5	4x10 PERFORATED WOOD PANEL CEILING SYSTEM

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

SHEET STATUS: 10/17/2024

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
REFLECTED CEILING PLANS

SHEET NUMBER:
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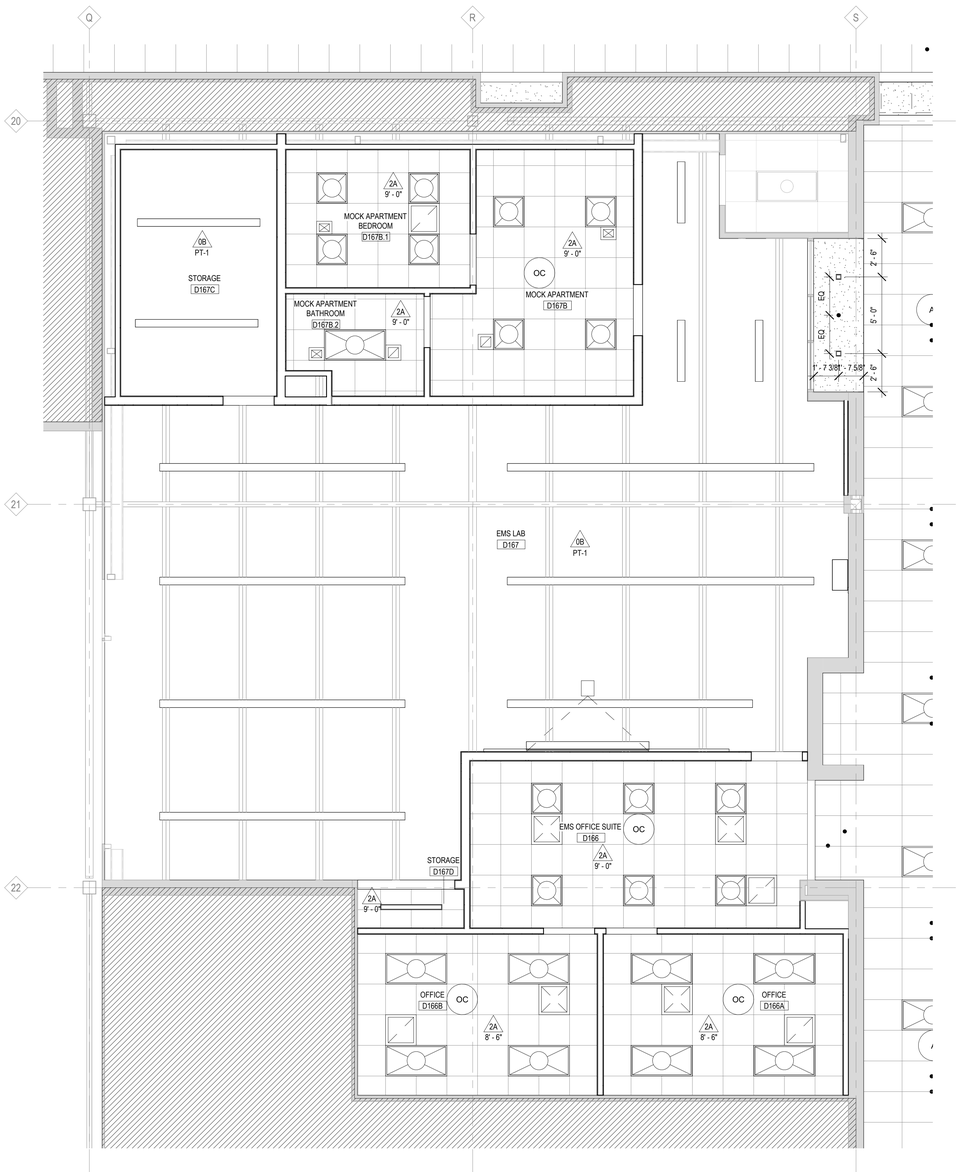
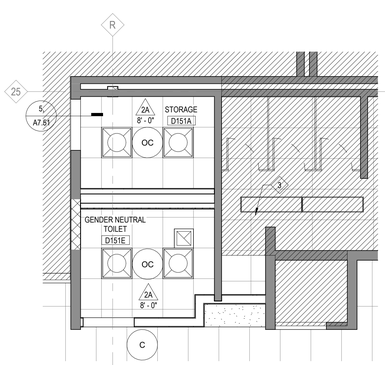


1 REFLECTED CEILING PLAN - EMS
1/4" = 1'-0"

TRUE NORTH



2 REFLECTED CEILING PLAN - TOILET
1/4" = 1'-0"

TRUE NORTH

RCP SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- CEILING TYPE
- CEILING ELEVATION AFF
- SUSPENDED ACOUSTICAL TILE CEILING
- GYPSUM BOARD CEILING OR SOFFIT
- LINEAR WOOD SLAT CEILING SYSTEM
- WOOD PANEL CEILING
- ROLLER SHADE (TYP.)
- RECESSED 2'x4' LIGHT FIXTURE
- RECESSED 1'x4' LIGHT FIXTURE
- RECESSED 2'x2' FIXTURE
- RECESSED LINEAR FIXTURE
- SMALL PENDANT LIGHT FIXTURE
- PENDANT LIGHT MOUNT FIXTURE
- RECESSED DOWN LIGHT
- PENDANT LIGHT MOUNT LINEAR FIXTURE
- PENDANT LIGHT HUNG STRIP FIXTURE
- SPRINKLER HEAD
- MOTORIZED SCREEN
- CEILING MOUNTED PROJECTOR
- SOLID HATCH DENOTES EXIT SIGN FACE PLATE
- DIRECTION OF EGRESS
- EXIT SIGN, WALL MOUNTED
- (H) HEAT DETECTOR
- (SD) SMOKE DETECTOR
- (A) FIRE ALARM DEVICE
- (S) SPEAKER
- (C) CLOSED CIRCUIT CAMERA
- (OC) OCCUPANT SENSOR
- (W) WIRELESS ACCESS POINT
- (LS) LIGHT SENSOR
- RETURN AIR GRILLE
- SUPPLY AIR GRILLE
- LINEAR DIFFUSER - SUPPLY/RETURN
- ACCESS PANEL

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20/10 ENGINEERING GROUP, LLC
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McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO:24-031

KEY PLAN:

SHEET STATUS: 10/17/2024

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
REFLECTED CEILING PLANS

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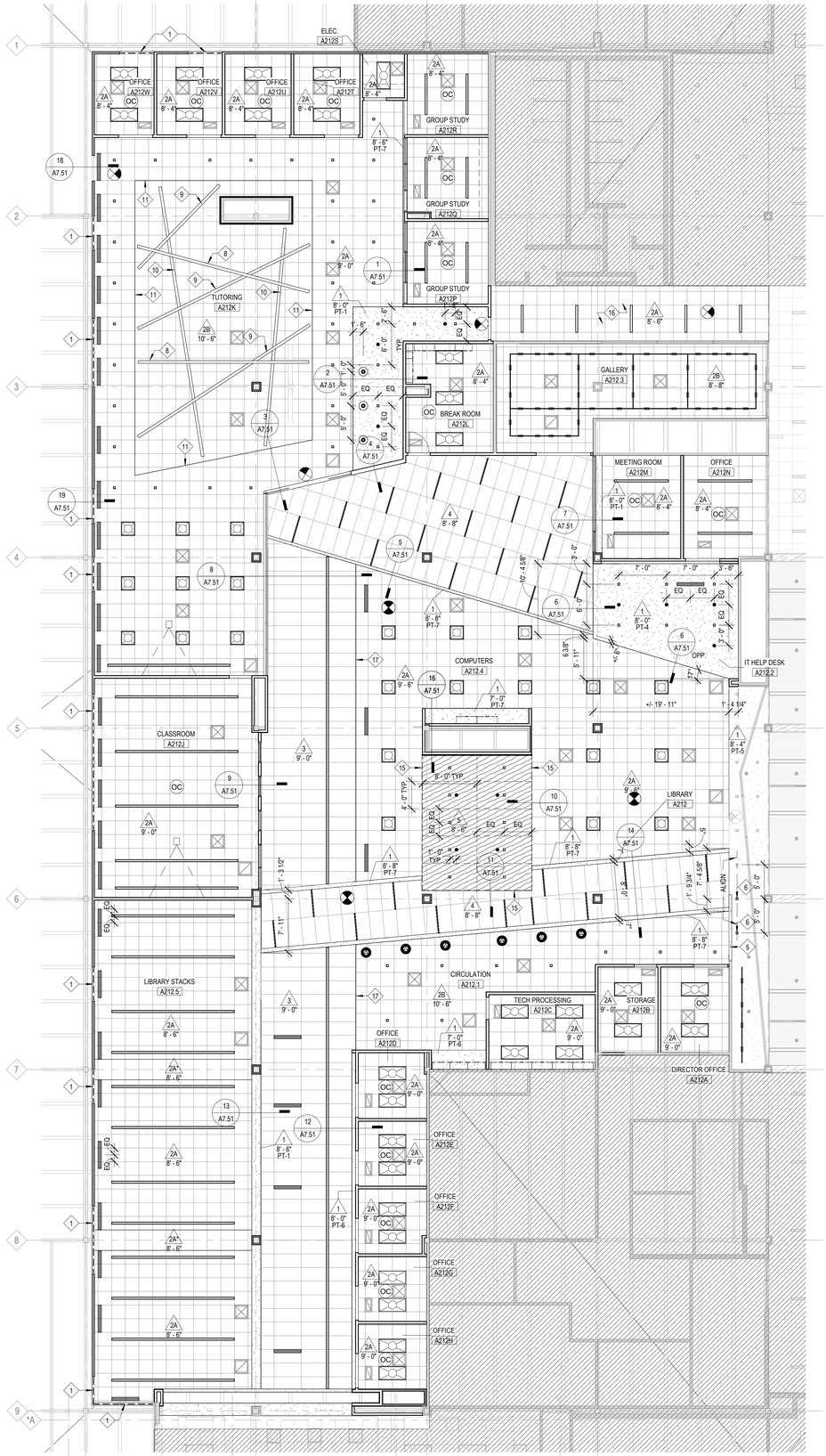

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McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO:24-031

KEY PLAN:

SHEET STATUS: 10/17/2024

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:

REFLECTED CEILING PLANS

SHEET NUMBER:

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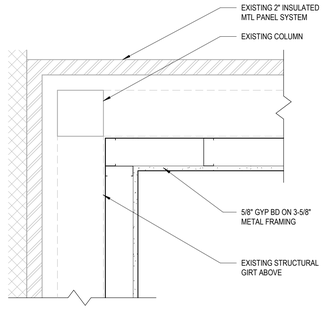
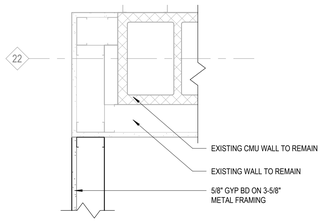
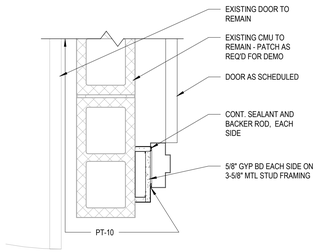


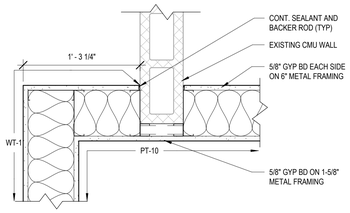
1 PLAN DETAIL
1 1/2" = 1'-0"



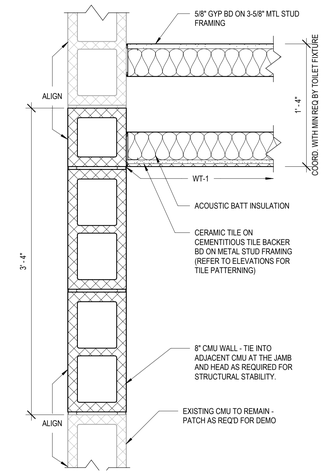
2 PLAN DETAIL
1 1/2" = 1'-0"



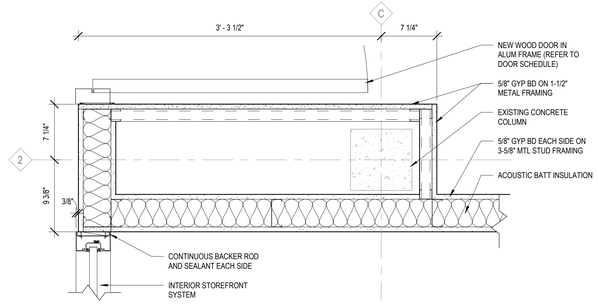
3 PLAN DETAIL
1 1/2" = 1'-0"



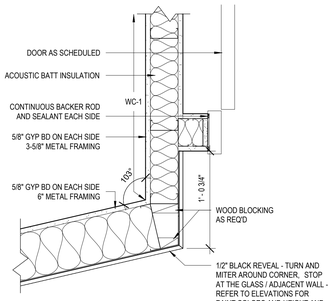
4 PLAN DETAIL
1 1/2" = 1'-0"



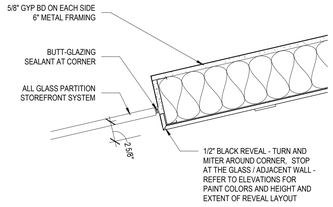
5 PLAN DETAIL
1 1/2" = 1'-0"



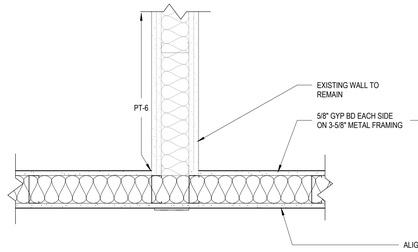
6 PLAN DETAIL
1 1/2" = 1'-0"



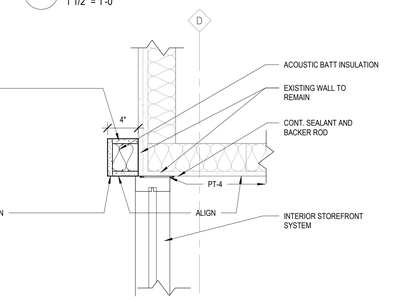
7 PLAN DETAIL
1 1/2" = 1'-0"



8 Detail 30
1 1/2" = 1'-0"



9 PLAN DETAIL
1 1/2" = 1'-0"



10 PLAN DETAIL
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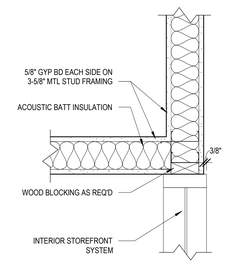
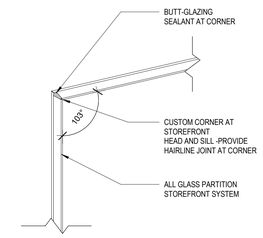
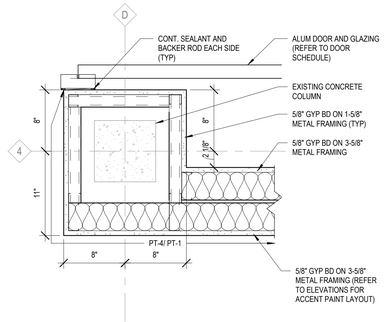


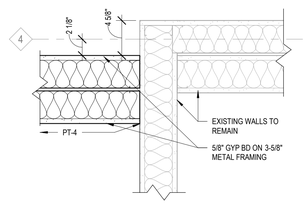
11 PLAN DETAIL
1 1/2" = 1'-0"



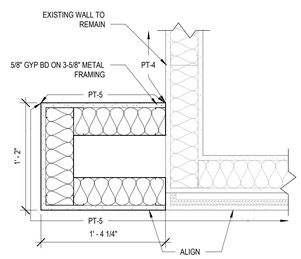
12 PLAN DETAIL
1 1/2" = 1'-0"



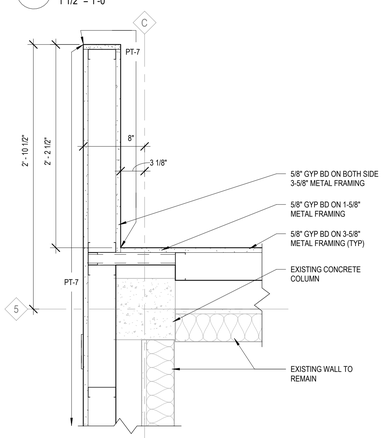
13 PLAN DETAIL
1 1/2" = 1'-0"



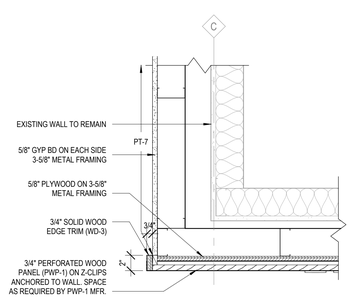
14 PLAN DETAIL
1 1/2" = 1'-0"



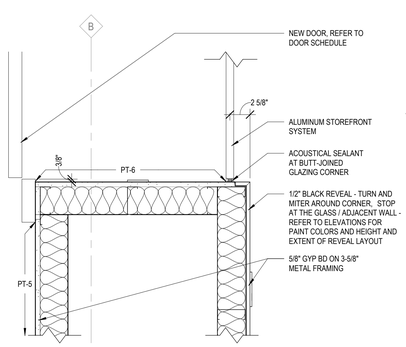
15 PLAN DETAIL
1 1/2" = 1'-0"



16 PLAN DETAIL
1 1/2" = 1'-0"



17 PLAN DETAIL
1 1/2" = 1'-0"



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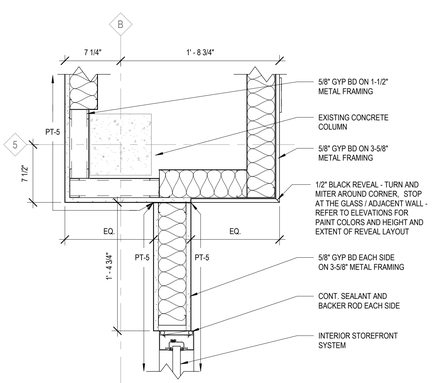
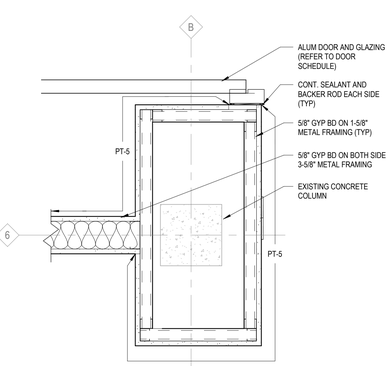


19 PLAN DETAIL
1 1/2" = 1'-0"



20 PLAN DETAIL
1 1/2" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

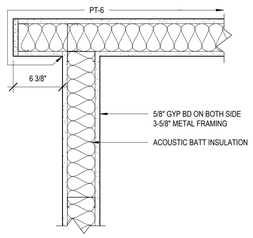
SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

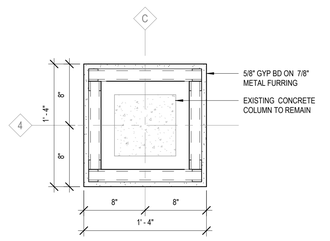
SHEET TITLE:
PLAN DETAILS

SHEET NUMBER:
A7.01

10/17/2024 3:50:15 PM



1 PLAN DETAIL
1 1/2" = 1'-0"



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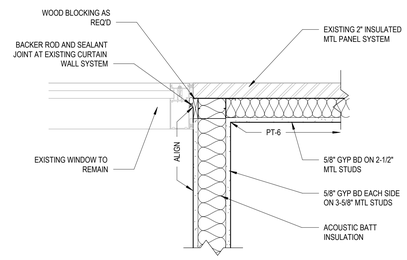
1 1/2" = 1'-0"



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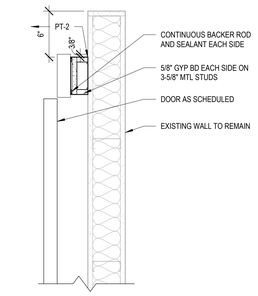
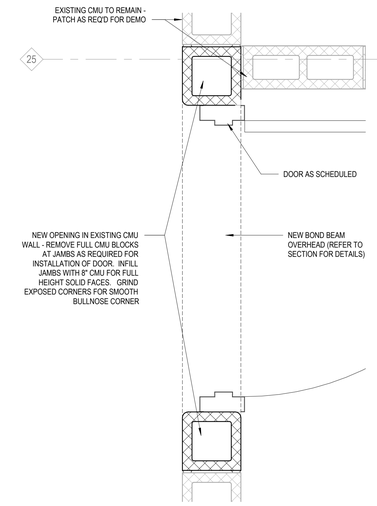
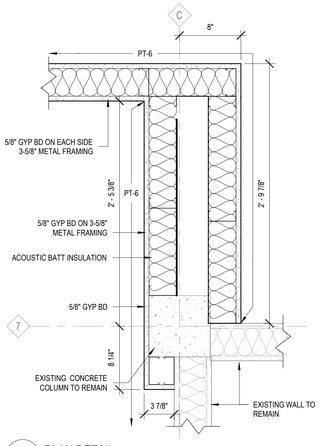
1 1/2" = 1'-0"



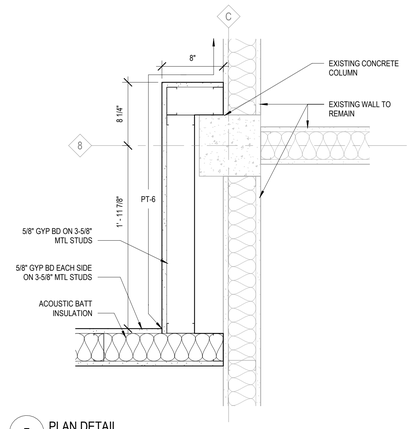
4 PLAN DETAIL
1 1/2" = 1'-0"



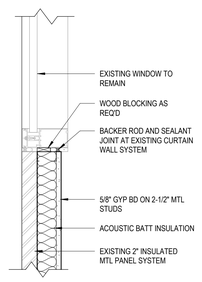
5 PLAN DETAIL
1 1/2" = 1'-0"



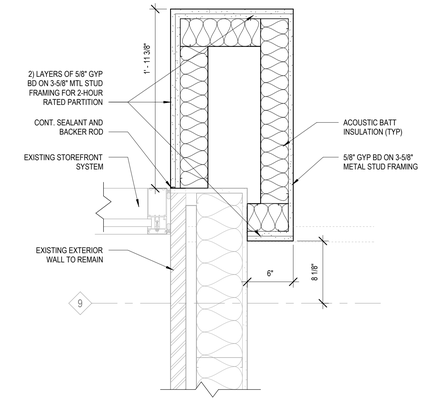
6 PLAN DETAIL
1 1/2" = 1'-0"



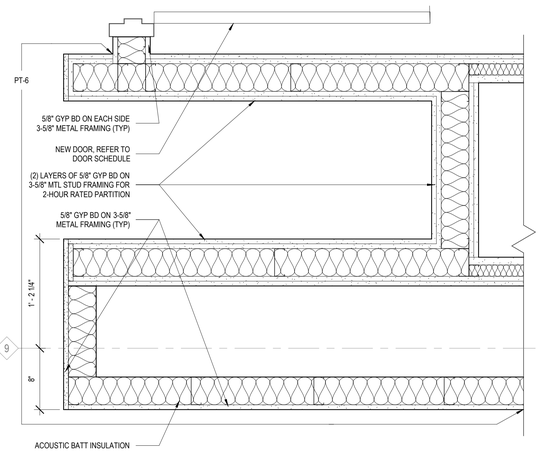
7 PLAN DETAIL
1 1/2" = 1'-0"



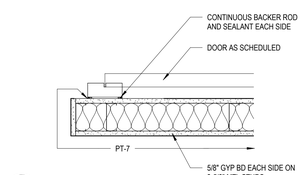
8 PLAN DETAIL
1 1/2" = 1'-0"



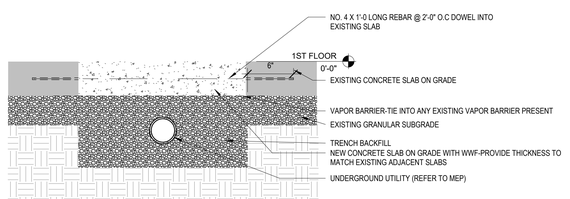
9 PLAN DETAIL
1 1/2" = 1'-0"



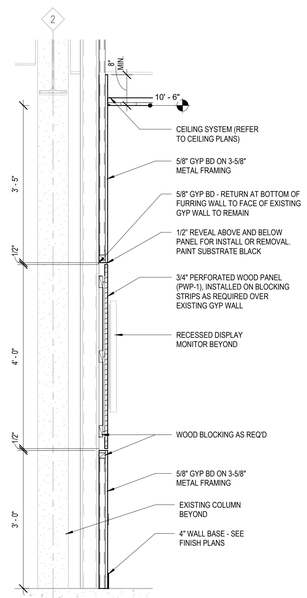
10 PLAN DETAIL
1 1/2" = 1'-0"



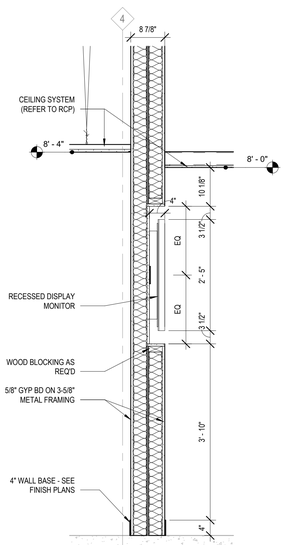
11 PLAN DETAIL
1 1/2" = 1'-0"



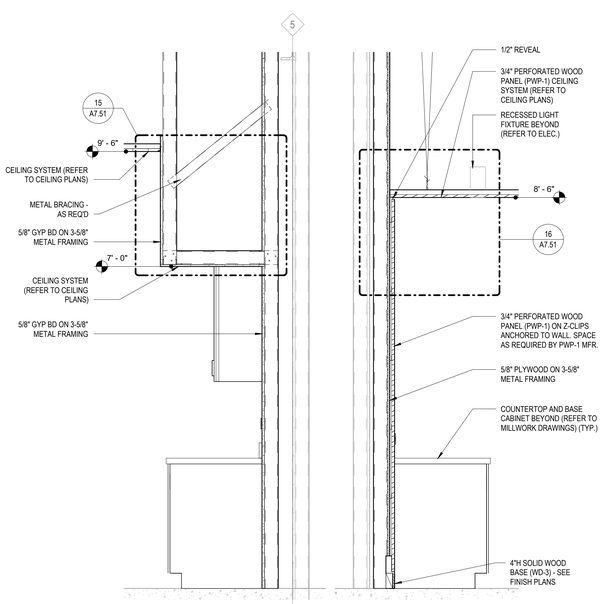
12 SECTION DETAIL
1 1/2" = 1'-0"



13 WALL SECTION
3/4" = 1'-0"



14 WALL SECTION
3/4" = 1'-0"



15 WALL SECTION
3/4" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO:24-031

KEY PLAN:

SHEET STATUS: 10/17/2024

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:

PLAN DETAILS AND WALL SECTIONS

SHEET NUMBER:

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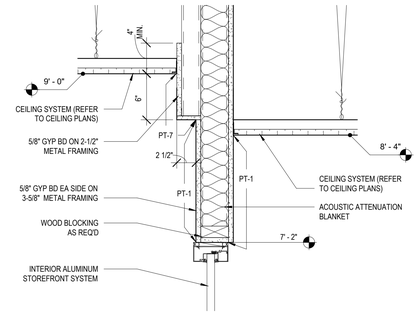
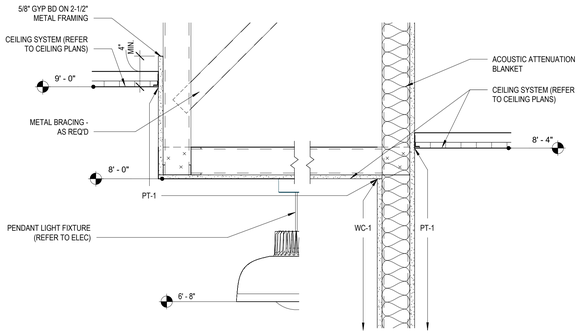
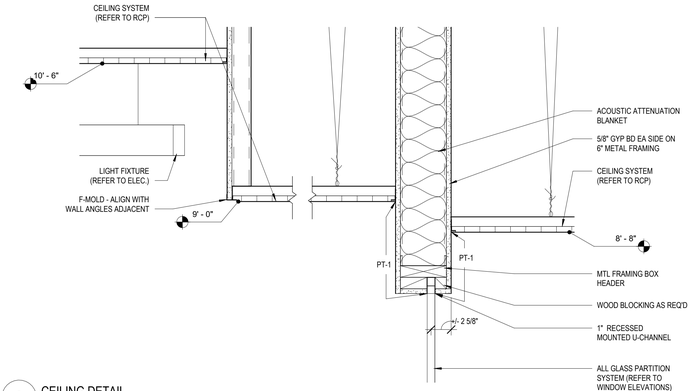


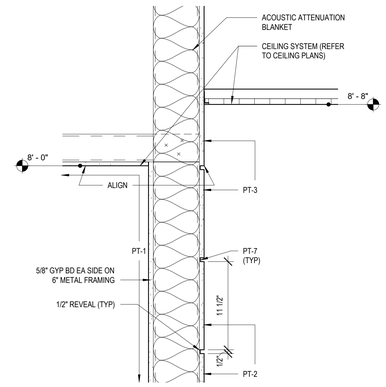
1 CEILING DETAIL
1 1/2" = 1'-0"



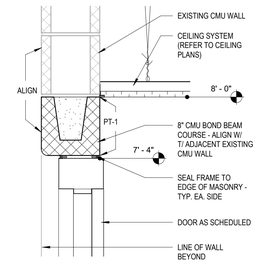
2 CEILING DETAIL
1 1/2" = 1'-0"



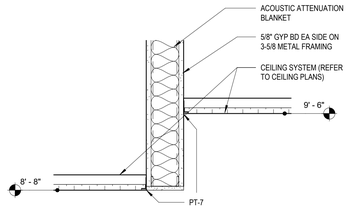
3 CEILING DETAIL
1 1/2" = 1'-0"



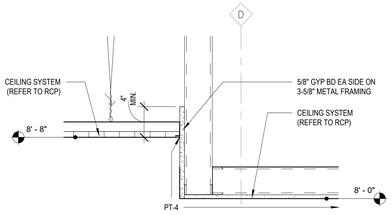
4 CEILING DETAIL
1 1/2" = 1'-0"



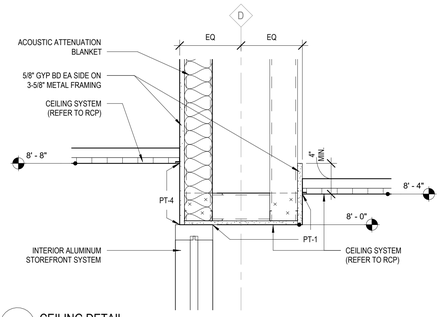
5, CEILING DETAIL
1 1/2" = 1'-0"



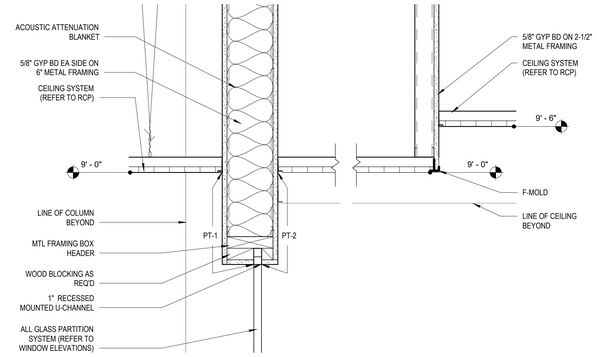
5 CEILING DETAIL
1 1/2" = 1'-0"



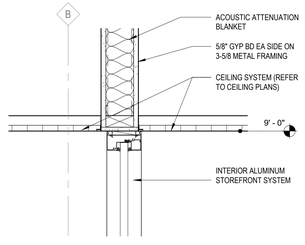
6 CEILING DETAIL
1 1/2" = 1'-0"



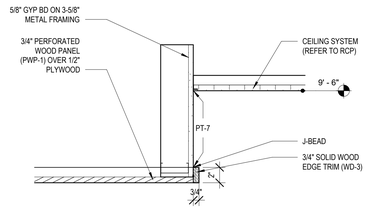
7 CEILING DETAIL
1 1/2" = 1'-0"



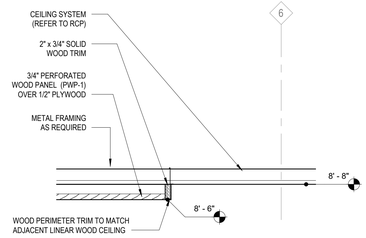
8 CEILING DETAIL
1 1/2" = 1'-0"



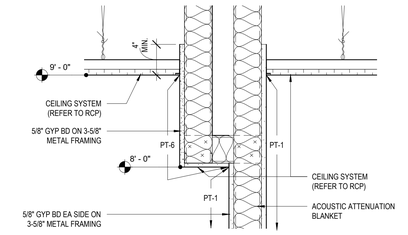
9 CEILING DETAIL
1 1/2" = 1'-0"



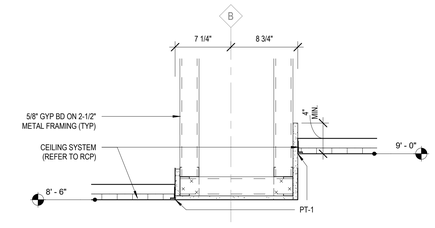
10 CEILING DETAIL
1 1/2" = 1'-0"



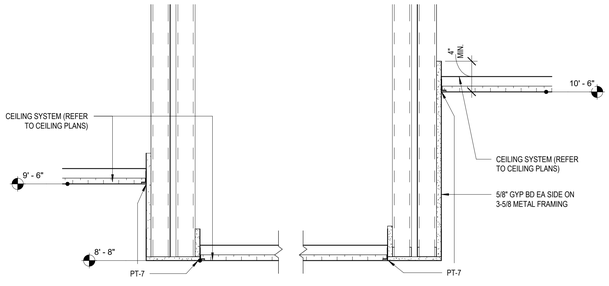
11 CEILING DETAIL
1 1/2" = 1'-0"



12 CEILING DETAIL
1 1/2" = 1'-0"



13 CEILING DETAIL
1 1/2" = 1'-0"



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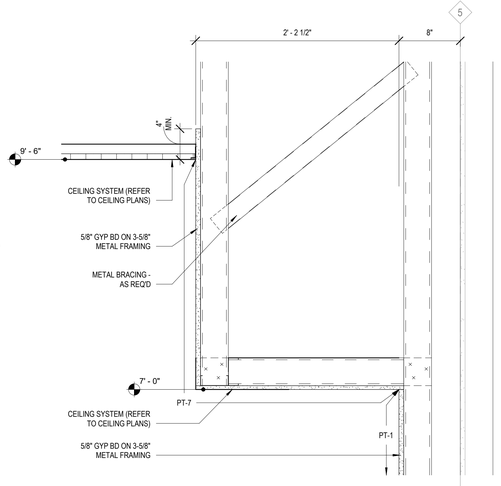
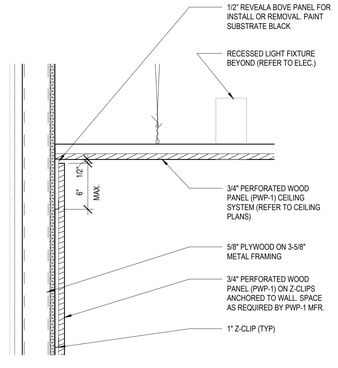
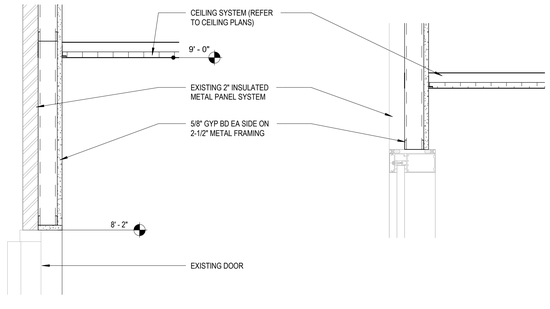


15 CEILING DETAIL
1 1/2" = 1'-0"



16 CEILING DETAIL
1 1/2" = 1'-0"

18 Detail 25
1 1/2" = 1'-0"



19 Detail 24
1 1/2" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO:24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
CEILING DETAILS

SHEET NUMBER:
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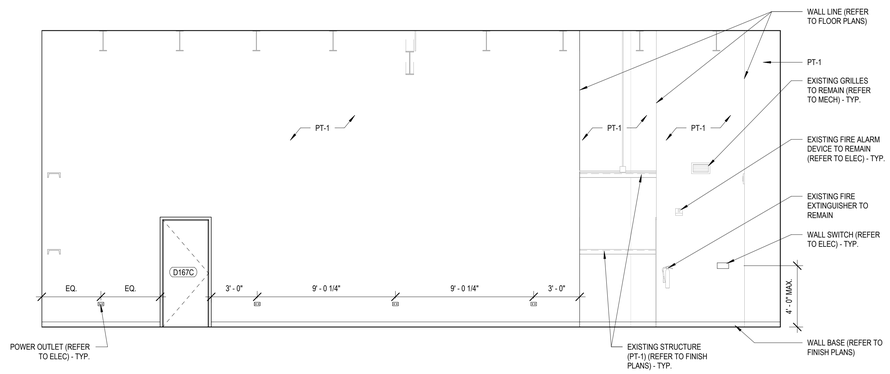
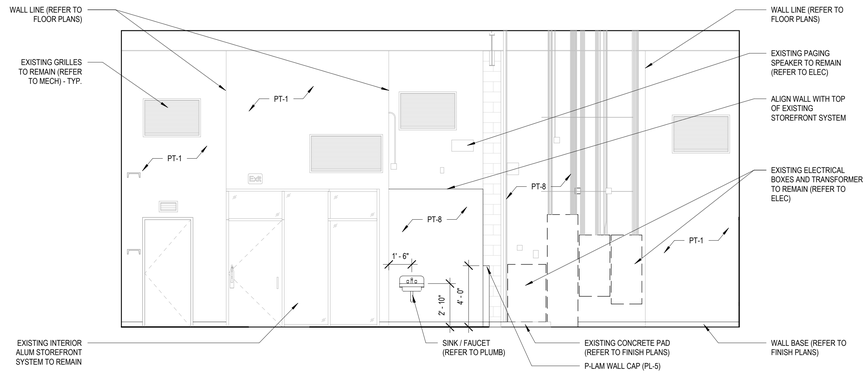
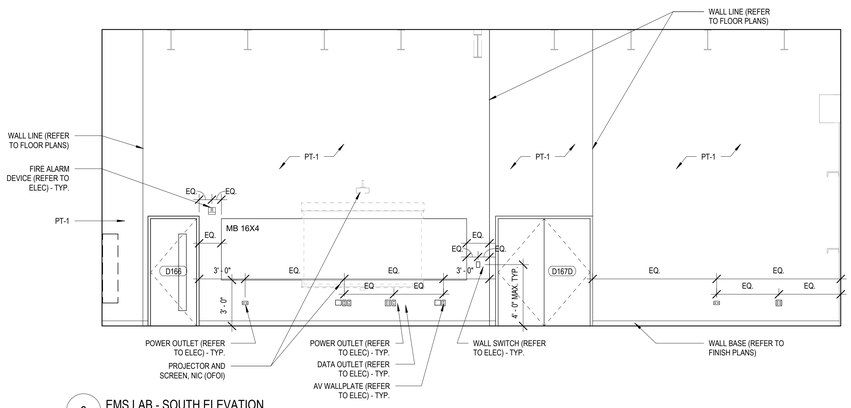
10/17/2024 3:50:28 PM



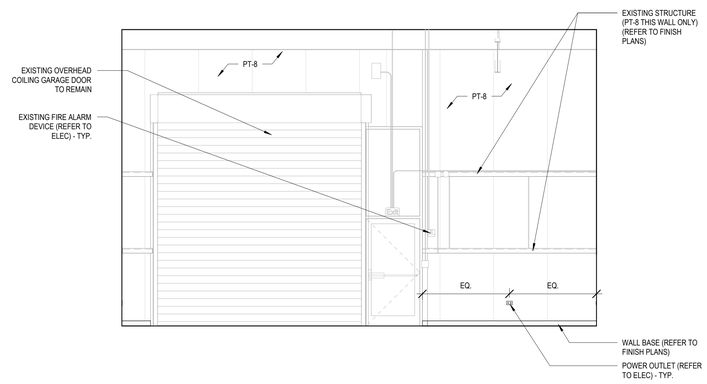
1 EMS LAB - NORTH ELEVATION
1/4" = 1'-0"



2 EMS LAB - EAST ELEVATION
1/4" = 1'-0"



3 EMS LAB - SOUTH ELEVATION
1/4" = 1'-0"



4 EMS LAB - WEST ELEVATION
1/4" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO:24-031

KEY PLAN:

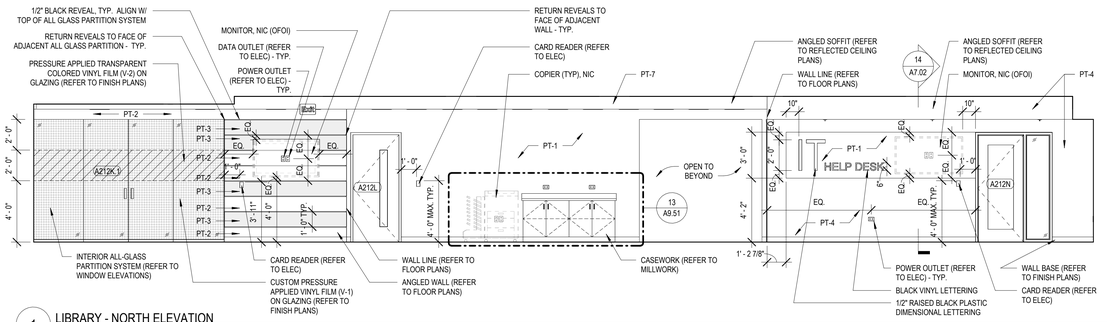
SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

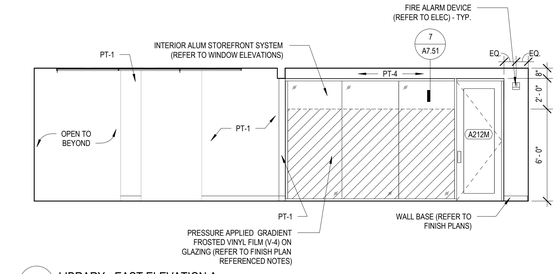
SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NUMBER:
A9.01

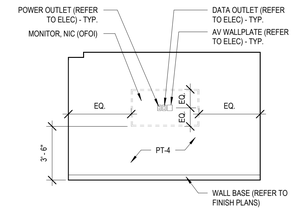
10/17/2024 3:50:31 PM



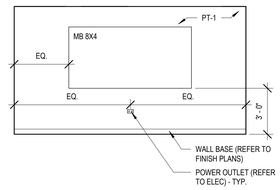
1 LIBRARY - NORTH ELEVATION
1/4" = 1'-0"



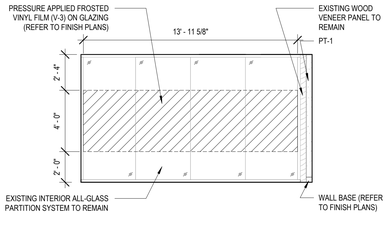
2 LIBRARY - EAST ELEVATION A
1/4" = 1'-0"



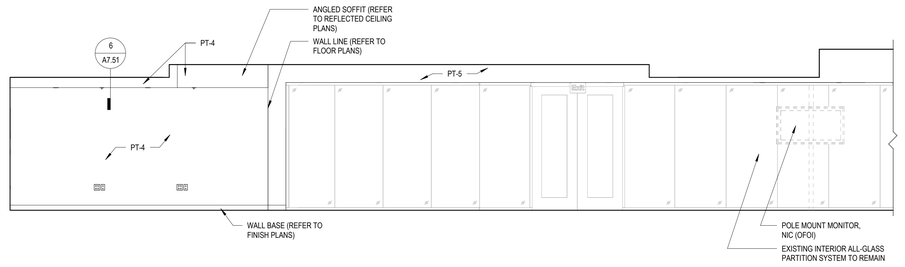
3 MEETING ROOM - NORTH ELEVATION
1/4" = 1'-0"



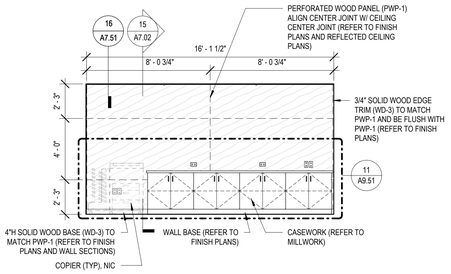
4 MEETING ROOM - EAST ELEVATION
1/4" = 1'-0"



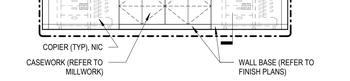
5 OFFICE - EAST ELEVATION A
1/4" = 1'-0"



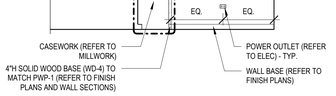
6 LIBRARY - EAST ELEVATION B
1/4" = 1'-0"



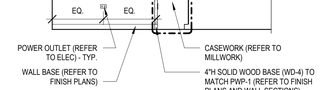
7 COMPUTERS - NORTH ELEVATION
1/4" = 1'-0"



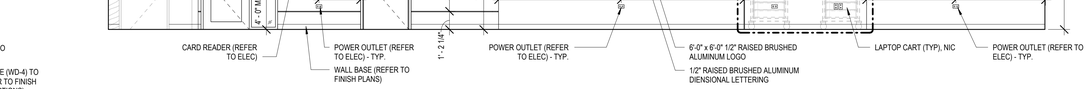
8 LIBRARY - SOUTH ELEVATION
1/4" = 1'-0"



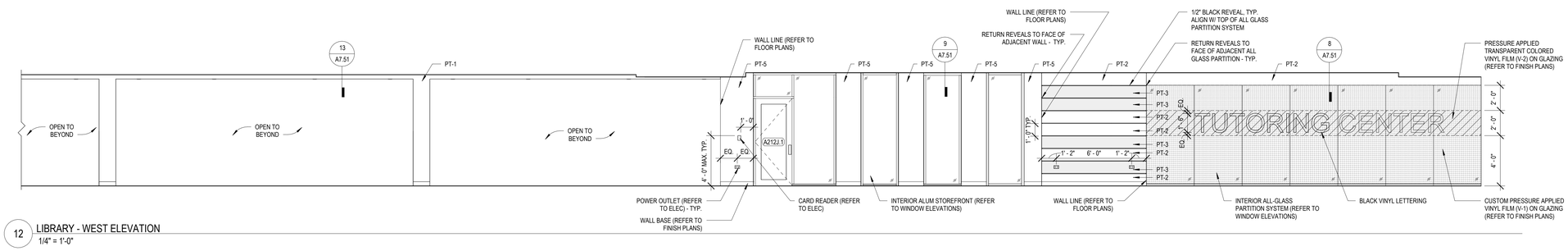
9 COMPUTERS - WEST ELEVATION
1/4" = 1'-0"



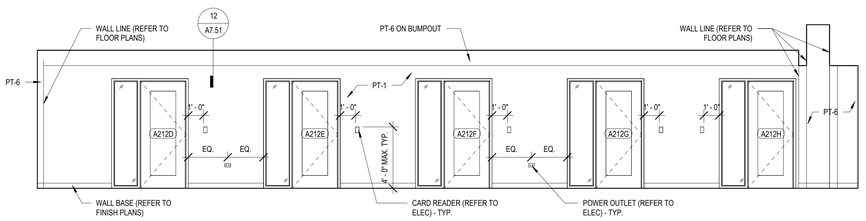
10 COMPUTERS - EAST ELEVATION
1/4" = 1'-0"



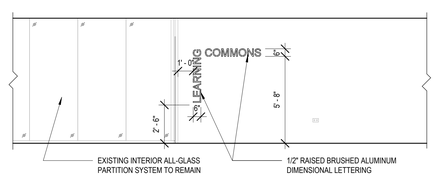
11 CIRCULATION - SOUTH ELEVATION
1/4" = 1'-0"



12 LIBRARY - WEST ELEVATION
1/4" = 1'-0"



13 LIBRARY - EAST ELEVATION C
1/4" = 1'-0"



14 LIBRARY - ENTRANCE ELEVATION
1/4" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO:24-031

KEY PLAN:

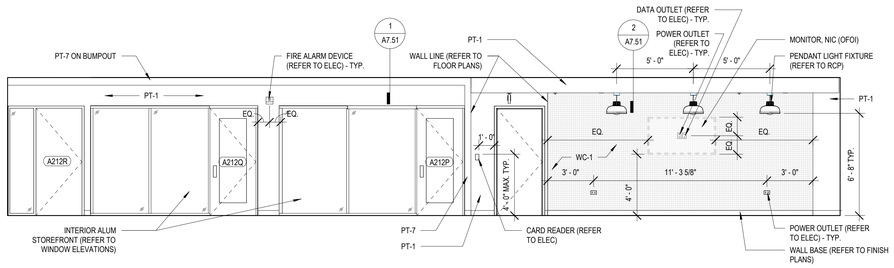
SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

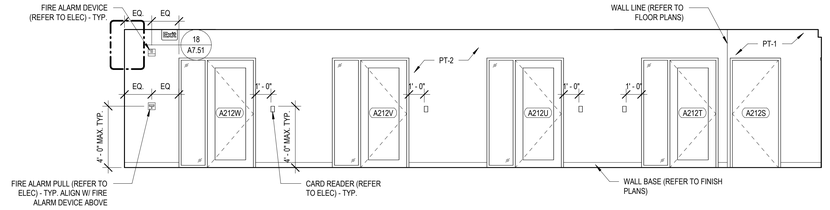
SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NUMBER:
A9.02

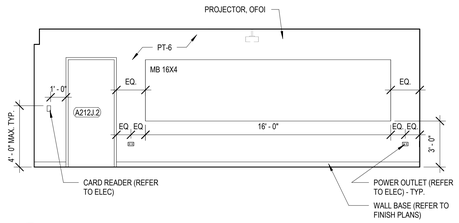
10/17/2024 3:50:43 PM



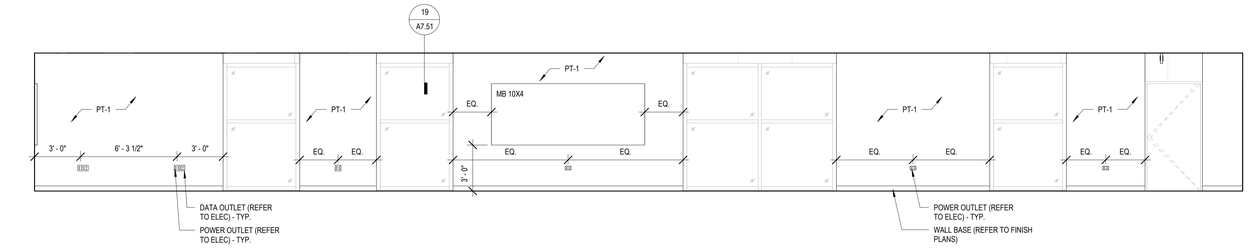
1 TUTORING - EAST ELEVATION
1/4" = 1'-0"



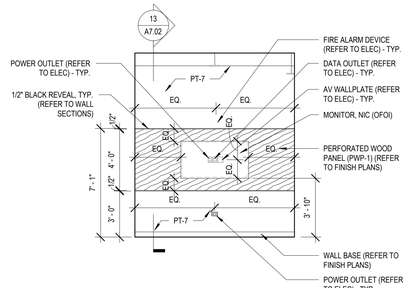
2 TUTORING - NORTH ELEVATION
1/4" = 1'-0"



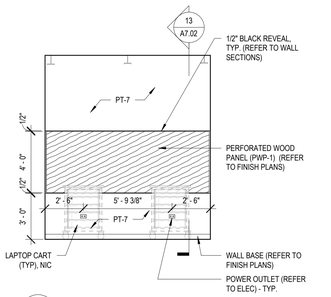
3 TUTORING - SOUTH ELEVATION
1/4" = 1'-0"



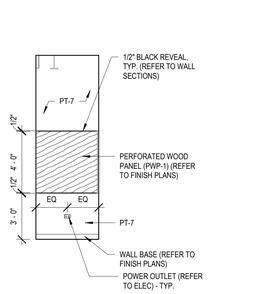
4 TUTORING - WEST ELEVATION
1/4" = 1'-0"



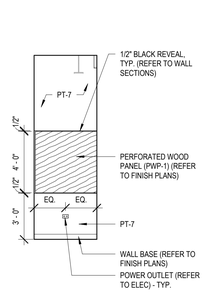
5 TUTORING FEATURE WALL - NORTH ELEVATION
1/4" = 1'-0"



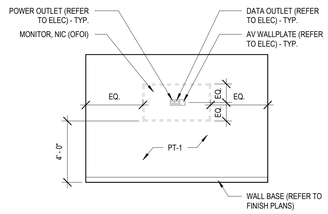
6 TUTORING FEATURE WALL - SOUTH ELEVATION
1/4" = 1'-0"



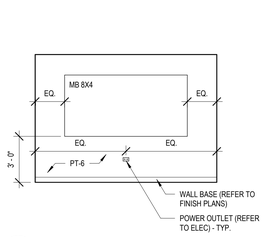
7 TUTORING FEATURE WALL - WEST ELEVATION
1/4" = 1'-0"



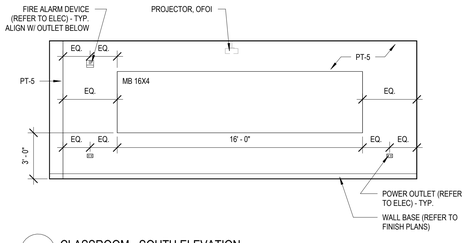
8 TUTORING FEATURE WALL - EAST ELEVATION
1/4" = 1'-0"



9 GROUP STUDY A212U - NORH ELEVATION
1/4" = 1'-0"



10 GROUP STUDY A212U - EAST ELEVATION
1/4" = 1'-0"



11 CLASSROOM - SOUTH ELEVATION
1/4" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

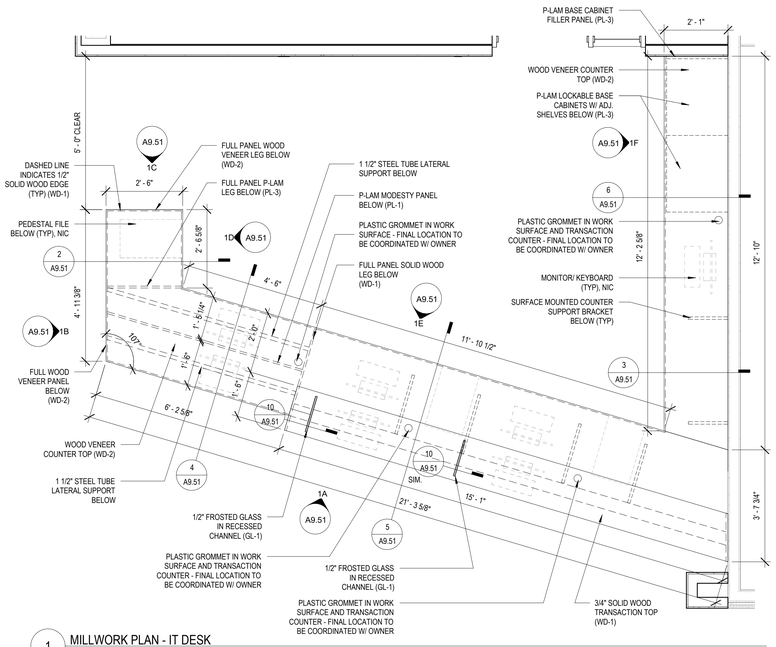
SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

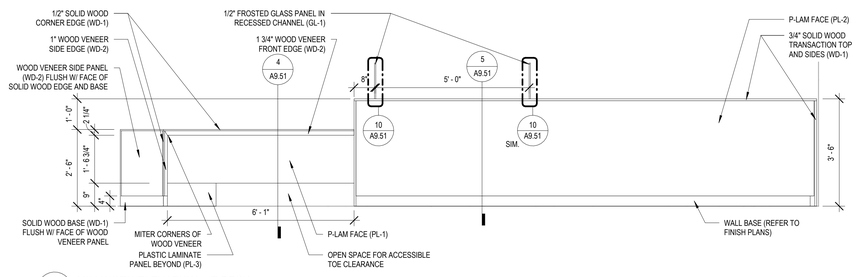
SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NUMBER:
A9.03

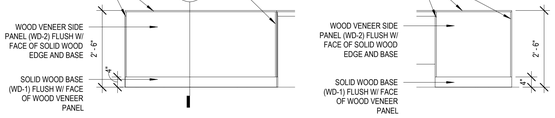
10/17/2024 3:50:52 PM



1 MILLWORK PLAN - IT DESK
1/2" = 1'-0"

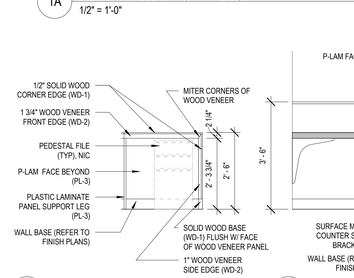


1A MILLWORK ELEVATION - IT DESK
1/2" = 1'-0"



1B MILLWORK ELEVATION - IT DESK
1/2" = 1'-0"

1C MILLWORK ELEVATION - IT DESK
1/2" = 1'-0"



1D MILLWORK ELEVATION - IT DESK
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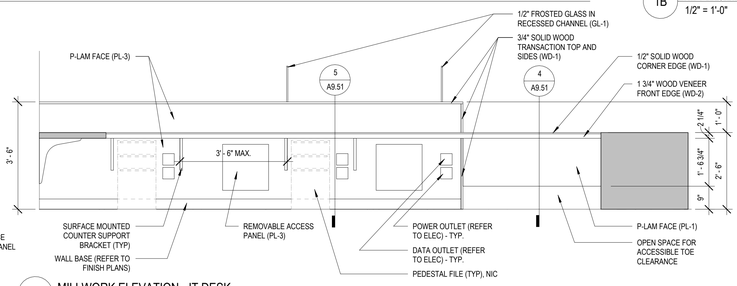

1E MILLWORK ELEVATION - IT DESK
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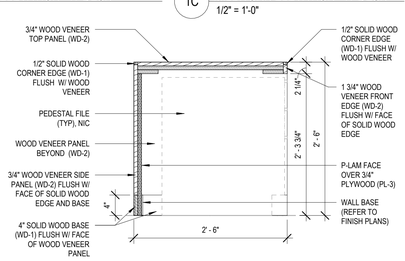


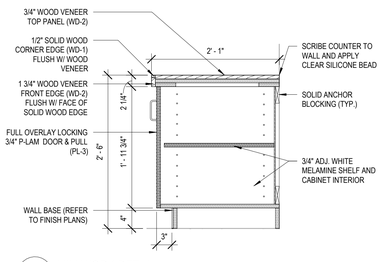
2 MILLWORK DETAIL
1" = 1'-0"

1F MILLWORK ELEVATION - IT DESK
1/2" = 1'-0"

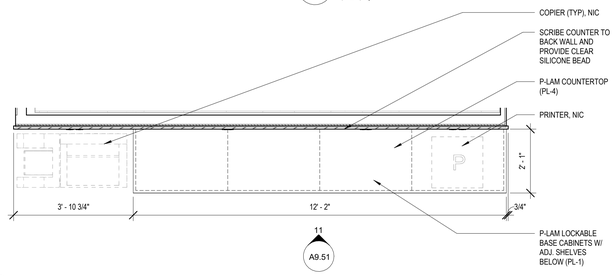
3 MILLWORK DETAIL
1" = 1'-0"

4 MILLWORK DETAIL
1" = 1'-0"

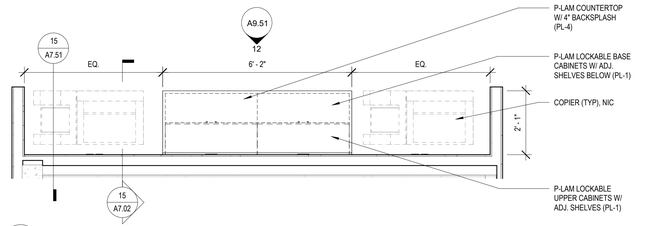
5 MILLWORK DETAIL
1" = 1'-0"



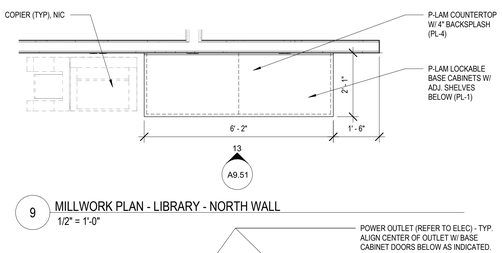
6 MILLWORK DETAIL
1" = 1'-0"



7 MILLWORK PLAN - COMPUTERS - NORTH WALL
1/2" = 1'-0"



8 MILLWORK PLAN - COMPUTERS - SOUTH WALL
1/2" = 1'-0"

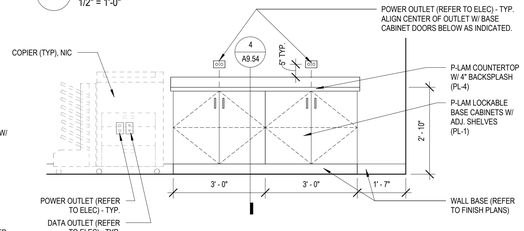


9 MILLWORK PLAN - LIBRARY - NORTH WALL
1/2" = 1'-0"

10 MILLWORK DETAIL
3" = 1'-0"

11 MILLWORK ELEVATION - COMPUTERS - NORTH WALL
1/2" = 1'-0"

12 MILLWORK ELEVATION - COMPUTERS - SOUTH WALL
1/2" = 1'-0"



13 MILLWORK ELEVATION - LIBRARY - NORTH WALL
1/2" = 1'-0"

MILLWORK FINISH TYPES:

TYPE	DESCRIPTION	MFR.	NAME/#/COLOR
PL-1	PLASTIC LAMINATE	ABET LAMINATI	POLARIS 2902-BK
PL-2	PLASTIC LAMINATE	FORMICA	7197-90 DOVER WHITE
PL-3	PLASTIC LAMINATE	FORMICA	909-58 BLACK
PL-4	PLASTIC LAMINATE	WILSONART	7954-38 NATURAL RIFT
PL-5	PLASTIC LAMINATE	WILSONART	7993-38 FLORENCE WALNUT
SS-1	SOLID SURFACE	DURASEIN	DM5026 LEADEN
WD-1	SOLID WOOD	SEE SPEC	SEE SPEC
WD-2	WOOD VENEER PANEL	SEE SPEC	SEE SPEC
GL-1	1/2" FROSTED GLASS PANEL	SEE SPEC	SEE SPEC

dka
ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

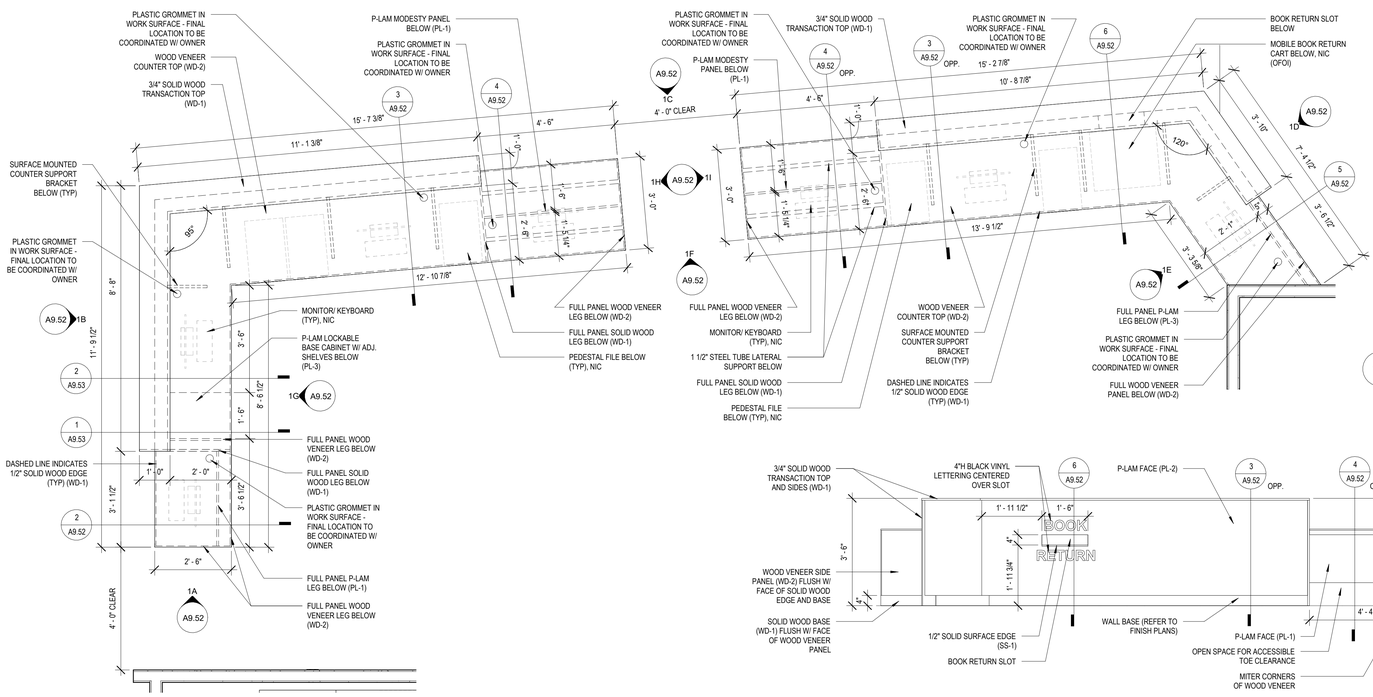
SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

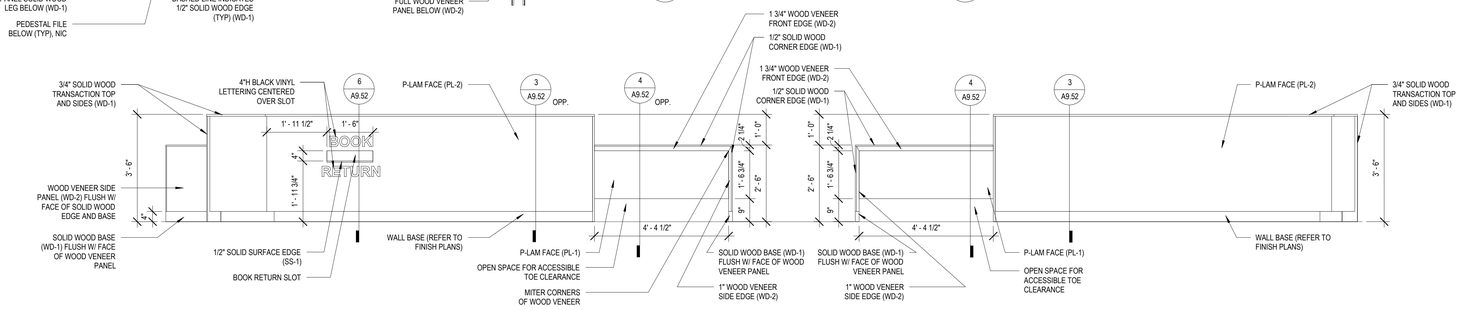
SHEET TITLE:
MILLWORK PLANS AND DETAILS

SHEET NUMBER:
A9.51

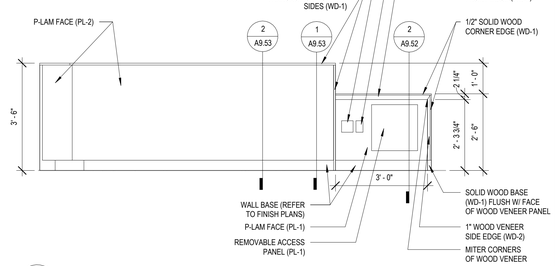
10/17/2024 3:51:01 PM



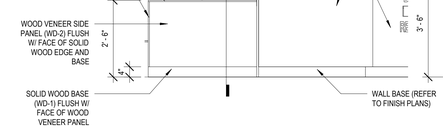
1 MILLWORK PLAN - CIRCULATION DESK
1/2" = 1'-0"



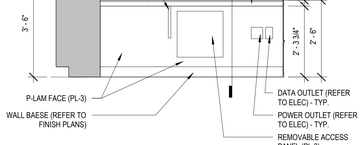
1A MILLWORK ELEVATION - CIRCULATION DESK
1/2" = 1'-0"



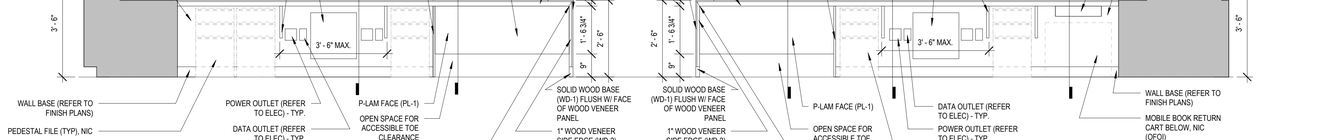
1B MILLWORK ELEVATION - CIRCULATION DESK
1/2" = 1'-0"



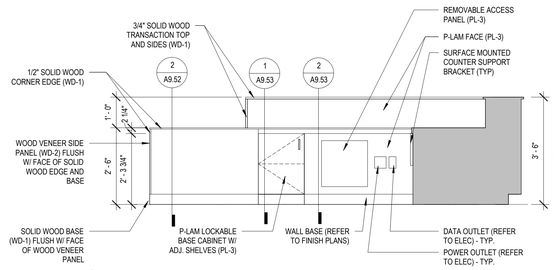
MILLWORK ELEVATION - CIRCULATION DESK - SOUTH WEST
1/2" = 1'-0"



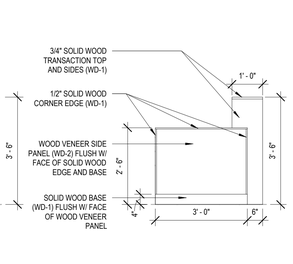
1E MILLWORK ELEVATION - CIRCULATION DESK
1/2" = 1'-0"



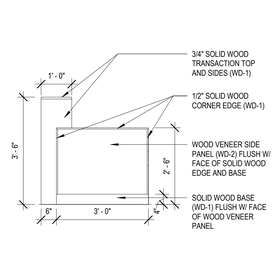
1F MILLWORK ELEVATION - CIRCULATION DESK
1/2" = 1'-0"



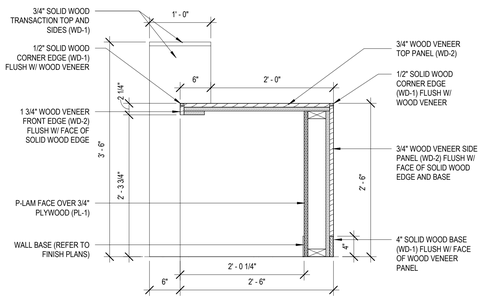
1G MILLWORK ELEVATION - CIRCULATION DESK
1/2" = 1'-0"



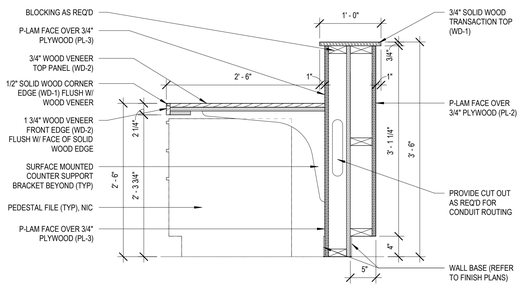
1H MILLWORK ELEVATION - CIRCULATION DESK
1/2" = 1'-0"



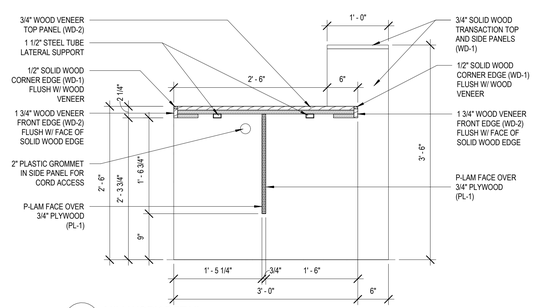
1I MILLWORK ELEVATION - CIRCULATION DESK
1/2" = 1'-0"



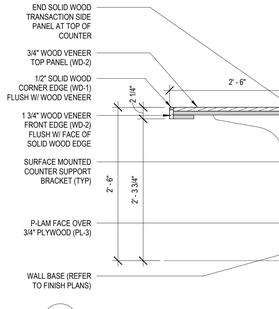
2 MILLWORK DETAIL
1" = 1'-0"



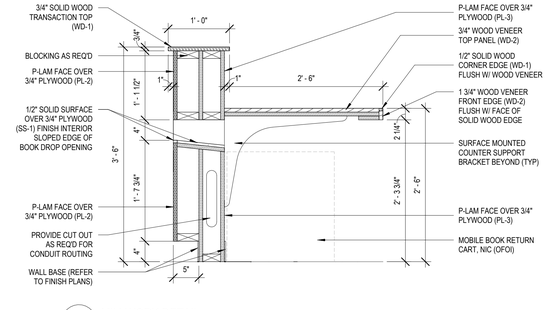
3 MILLWORK DETAIL
1" = 1'-0"



4 MILLWORK DETAIL
1" = 1'-0"



5 MILLWORK DETAIL
1" = 1'-0"



6 MILLWORK DETAIL
1" = 1'-0"

MILLWORK FINISH TYPES:

TYPE	DESCRIPTION	MFR.	NAME/#/COLOR
PL-1	PLASTIC LAMINATE	ABET LAMINATI	POLARIS 2902-BK
PL-2	PLASTIC LAMINATE	FORMICA	7197-90 DOVER WHITE
PL-3	PLASTIC LAMINATE	FORMICA	909-58 BLACK
PL-4	PLASTIC LAMINATE	WILSONART	7954-38 NATURAL RIFT
PL-5	PLASTIC LAMINATE	WILSONART	7993-38 FLORENCE WALNUT
SS-1	SOLID SURFACE	DURASEIN	DM5026 LEADEN
WD-1	SOLID WOOD	SEE SPEC	SEE SPEC
WD-2	WOOD VENEER PANEL	SEE SPEC	SEE SPEC
GL-1	1/2" FROSTED GLASS PANEL	SEE SPEC	SEE SPEC

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO:24-031

KEY PLAN:

SHEET STATUS: 10/17/2024

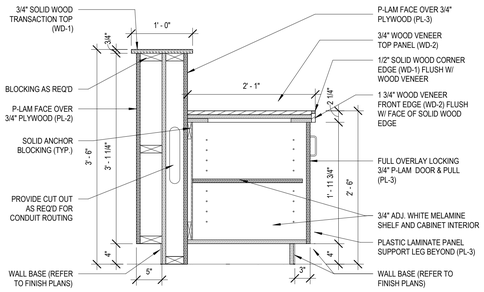
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

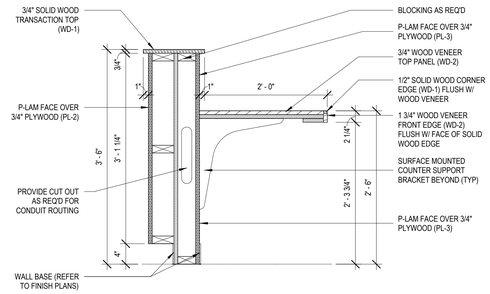
SHEET TITLE:
MILLWORK PLANS AND DETAILS

SHEET NUMBER:
A9.52

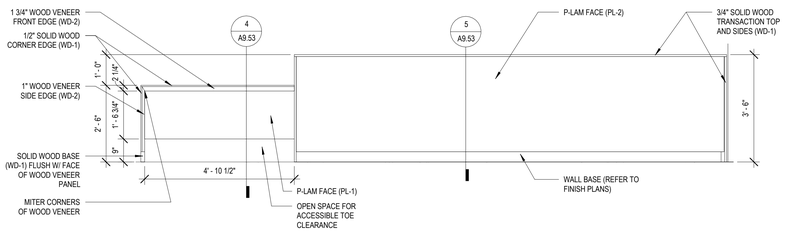
10/17/2024 3:51:09 PM



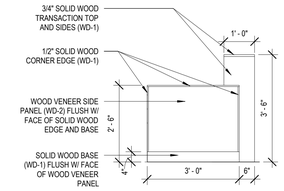
1 MILLWORK DETAIL - CIRCULATION DESK F
1" = 1'-0"



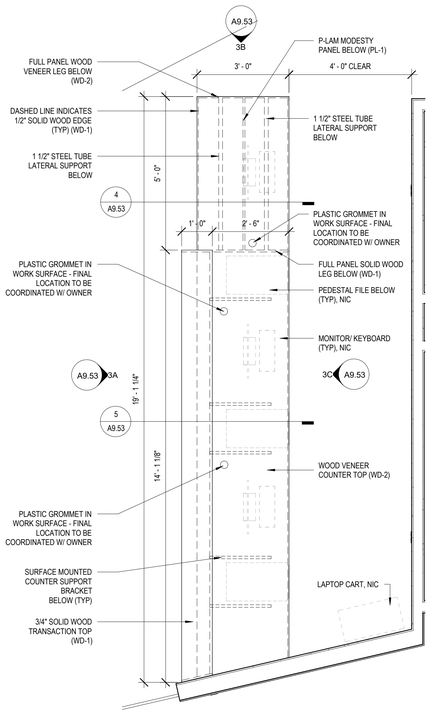
2 MILLWORK DETAIL - CIRCULATION DESK G
1" = 1'-0"



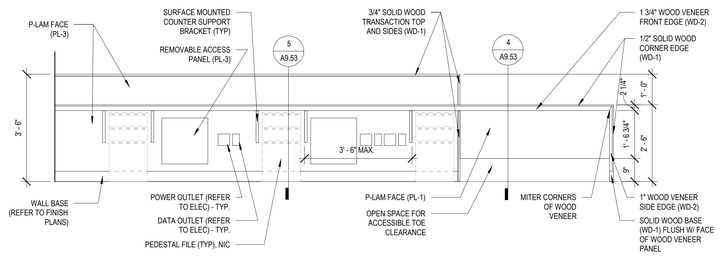
3A MILLWORK ELEVATION - TUTORING DESK
1/2" = 1'-0"



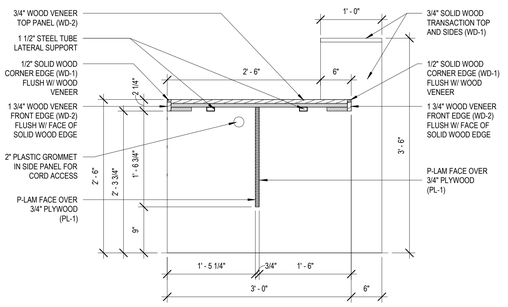
3B MILLWORK ELEVATION - TUTORING DESK
1/2" = 1'-0"



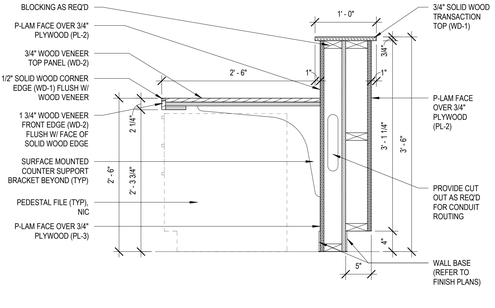
3 MILLWORK PLAN - TUTORING DESK
1/2" = 1'-0"



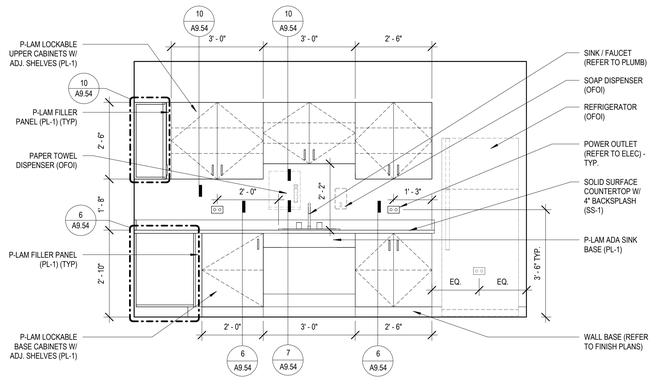
3C MILLWORK ELEVATION - TUTORING DESK
1/2" = 1'-0"



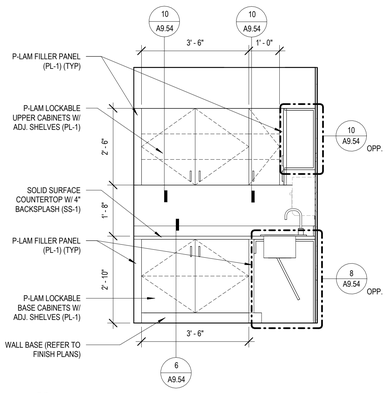
4 MILLWORK DETAIL
1" = 1'-0"



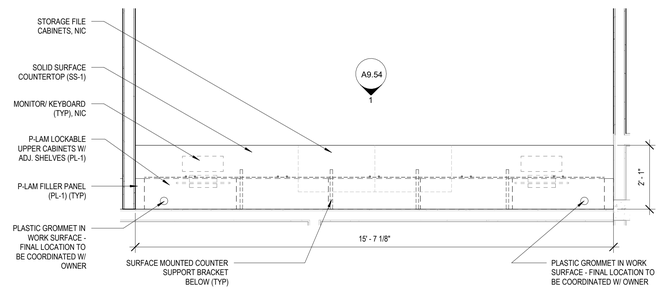
5 MILLWORK DETAIL
1" = 1'-0"



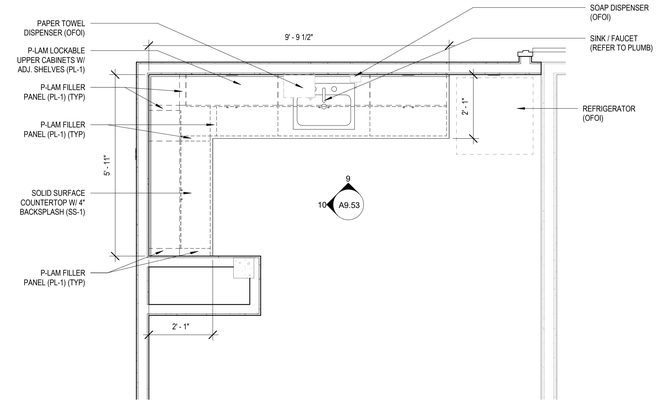
9 MILLWORK ELEVATION - BREAK ROOM - NORTH WALL
1/2" = 1'-0"



10 MILLWORK ELEVATION - BREAK ROOM - WEST WALL
1/2" = 1'-0"



11 MILLWORK PLAN - TECH PROCESSING
1/2" = 1'-0"



8 MILLWORK PLAN - BREAK ROOM
1/2" = 1'-0"

MILLWORK FINISH TYPES:			
TYPE	DESCRIPTION	MFR.	NAME/#/COLOR
PL-1	PLASTIC LAMINATE	ABET LAMINATI	POLARIS 2902-BK
PL-2	PLASTIC LAMINATE	FORMICA	7197-90 DOVER WHITE
PL-3	PLASTIC LAMINATE	FORMICA	909-58 BLACK
PL-4	PLASTIC LAMINATE	WILSONART	7954-38 NATURAL RIFT
PL-5	PLASTIC LAMINATE	WILSONART	7993-38 FLORENCE WALNUT
SS-1	SOLID SURFACE	DURASEIN	DM5026 LEADEN
WD-1	SOLID WOOD	SEE SPEC	SEE SPEC
WD-2	WOOD VENEER PANEL	SEE SPEC	SEE SPEC
GL-1	1/2" FROSTED GLASS PANEL	SEE SPEC	SEE SPEC

ARCHITECT OF RECORD
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P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
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P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO:24-031

KEY PLAN:

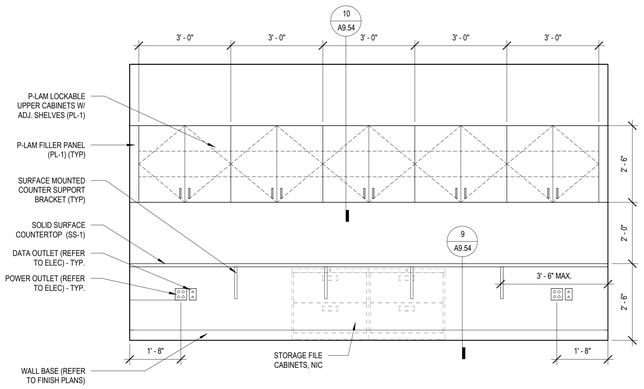
SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

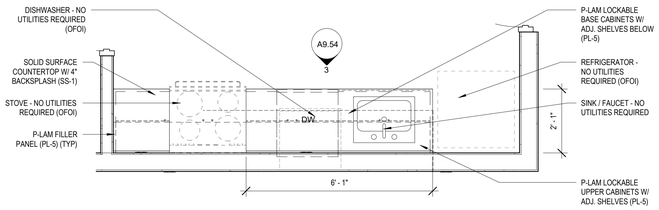
SHEET TITLE:
MILLWORK PLANS AND DETAILS

SHEET NUMBER:
A9.53

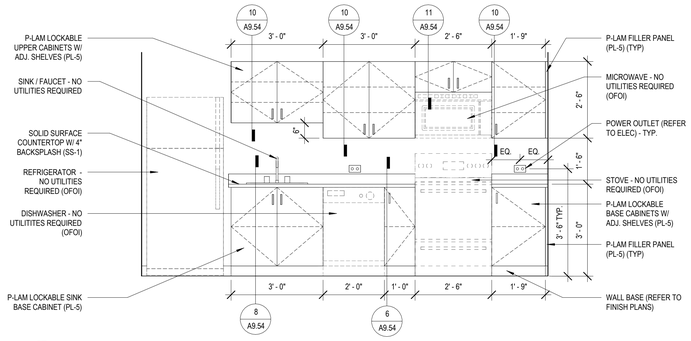
10/17/2024 3:51:17 PM



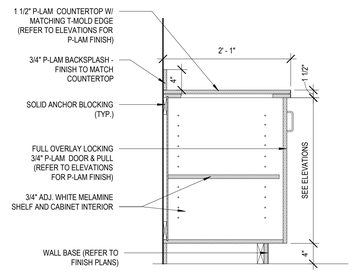
1 MILLWORK ELEVATION - TECH PROCESSING
1/2" = 1'-0"



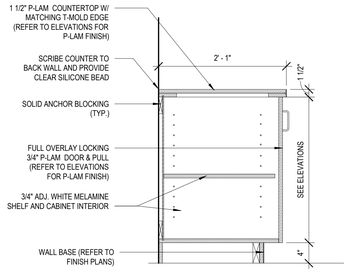
2 MILLWORK PLAN - MOCK APARTMENT
1/2" = 1'-0"



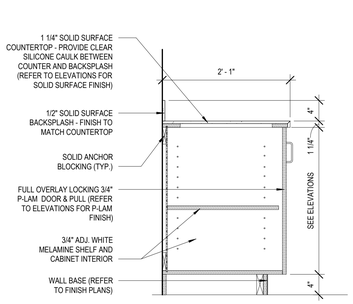
3 MILLWORK ELEVATION - MOCK APARTMENT
1/2" = 1'-0"



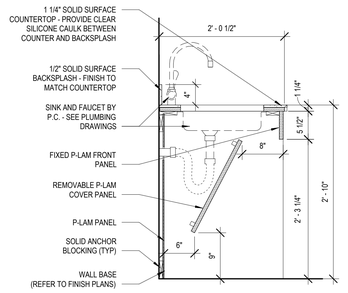
4 MILLWORK DETAIL
1" = 1'-0"



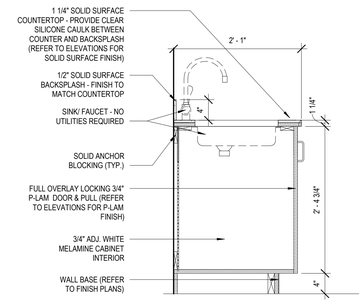
5 MILLWORK DETAIL
1" = 1'-0"



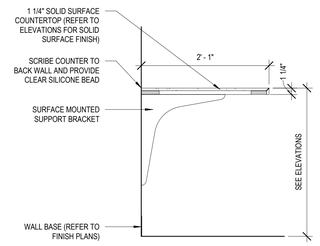
6 MILLWORK DETAIL
1" = 1'-0"



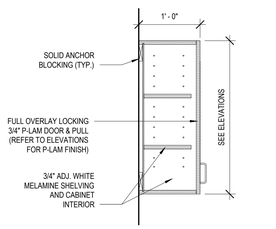
7 MILLWORK DETAIL
1" = 1'-0"



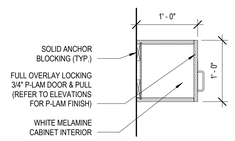
8 MILLWORK DETAIL
1" = 1'-0"



9 MILLWORK DETAIL
1" = 1'-0"



10 MILLWORK DETAIL
1" = 1'-0"



11 MILLWORK DETAIL
1" = 1'-0"

MILLWORK FINISH TYPES:

TYPE	DESCRIPTION	MFR.	NAME/#/COLOR
PL-1	PLASTIC LAMINATE	ABET LAMINATI	POLARIS 2902-BK
PL-2	PLASTIC LAMINATE	FORMICA	7197-90 DOVER WHITE
PL-3	PLASTIC LAMINATE	FORMICA	909-58 BLACK
PL-4	PLASTIC LAMINATE	WILSONART	7954-38 NATURAL RIFT
PL-5	PLASTIC LAMINATE	WILSONART	7993-38 FLORENCE WALNUT
SS-1	SOLID SURFACE	DURASEIN	DM5026 LEADEN
WD-1	SOLID WOOD	SEE SPEC	SEE SPEC
WD-2	WOOD VENEER PANEL	SEE SPEC	SEE SPEC
GL-1	1/2" FROSTED GLASS PANEL	SEE SPEC	SEE SPEC

ARCHITECT OF RECORD
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MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

SHEET STATUS: 10/17/2024

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:

MILLWORK PLANS AND DETAILS

SHEET NUMBER:

A9.54

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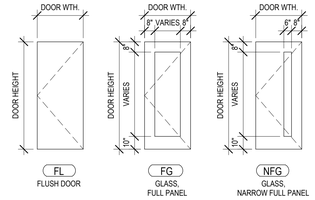
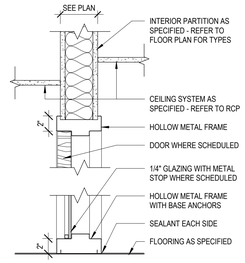
DOOR AND FRAME SCHEDULE

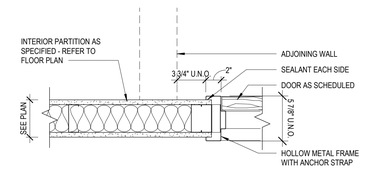
		DOOR						FRAME				
NUMBER	ROOM NAME	WIDTH	HEIGHT	FIRE RATING	MATERIAL	ELEV	GLAZING TYPE	MATERIAL	ELEV	GLAZING TYPE	HARDWARE SET	REMARKS
A212A	DIRECTOR OFFICE	3' - 0"	7' - 0"	-	WD	FG	GL-03	AL	B	GL-02	HS-07	PROVIDE ACCESS CONTROL AND CARD READER.
A212B	STORAGE	3' - 0"	7' - 0"	-	WD	FL	-	AL	A	-	HS-04	
A212C	TECH PROCESSING	3' - 0"	7' - 0"	-	WD	FG	GL-03	AL	A	-	HS-07	PROVIDE ACCESS CONTROL AND CARD READER.
A212D	OFFICE	3' - 0"	7' - 0"	-	WD	FG	GL-03	AL	B	GL-02	HS-07	PROVIDE ACCESS CONTROL AND CARD READER.
A212E	OFFICE	3' - 0"	7' - 0"	-	WD	FG	GL-03	AL	B	GL-02	HS-07	PROVIDE ACCESS CONTROL AND CARD READER.
A212F	OFFICE	3' - 0"	7' - 0"	-	WD	FG	GL-03	AL	B	GL-02	HS-07	PROVIDE ACCESS CONTROL AND CARD READER.
A212G	OFFICE	3' - 0"	7' - 0"	-	WD	FG	GL-03	AL	B	GL-02	HS-07	PROVIDE ACCESS CONTROL AND CARD READER.
A212H	OFFICE	3' - 0"	7' - 0"	-	WD	FG	GL-03	AL	B	GL-02	HS-07	PROVIDE ACCESS CONTROL AND CARD READER.
A212J.1	CLASSROOM	3' - 0"	7' - 0"	-	WD	FG	GL-03	AL	-	GL-02	HS-08	PROVIDE ACCESS CONTROL AND CARD READER. ALUM STOREFRONT SYSTEM - REFER TO WINDOW ELEVATIONS FOR DETAILS.
A212J.2	CLASSROOM	3' - 0"	7' - 0"	-	WD	FL	GL-03	AL	A	-	HS-08	PROVIDE ACCESS CONTROL AND CARD READER.
A212K.1	TUTORING	6' - 0"	8' - 0"	-	GL	AG	GL-02	-	-	GL-02	HS-10	PROVIDE MAG-LOCK AND CARD READER. ALL GLASS PARTITION SYSTEM - REFER TO WINDOW ELEVATIONS FOR DETAILS.
A212K.2	Room	3' - 0"	7' - 0"	-	WD	FL	-	AL	A	-	HS-09	PROVIDE ACCESS CONTROL AND CARD READER. PROVIDE PANIC HARDWARE FOR EMERGENCY EGRESS.
A212L	BREAK ROOM	3' - 0"	7' - 0"	-	WD	FL	GL-01	AL	A	-	HS-07	PROVIDE ACCESS CONTROL AND CARD READER.
A212M	MEETING ROOM	3' - 0"	7' - 10"	-	WD	NFG	GL-03	AL	-	GL-02	HS-02	ALUM STOREFRONT SYSTEM - REFER TO WINDOW ELEVATIONS FOR DETAILS.
A212N	OFFICE	3' - 0"	7' - 0"	-	WD	FG	GL-03	AL	B	GL-02	HS-07	PROVIDE ACCESS CONTROL AND CARD READER.
A212N.14												
A212P	GROUP STUDY	3' - 0"	7' - 0"	-	WD	FG	GL-03	AL	-	GL-02	HS-01	ALUM STOREFRONT SYSTEM - REFER TO WINDOW ELEVATIONS FOR DETAILS.
A212Q	GROUP STUDY	3' - 0"	7' - 0"	-	WD	FG	GL-03	AL	-	GL-02	HS-01	ALUM STOREFRONT SYSTEM - REFER TO WINDOW ELEVATIONS FOR DETAILS.
A212R	GROUP STUDY	3' - 0"	7' - 0"	-	WD	FL	GL-03	AL	B	GL-02	HS-01	
A212S	ELEC.	3' - 0"	7' - 0"	-	WD	FL	-	AL	A	-	HS-04	
A212T	OFFICE	3' - 0"	7' - 0"	-	WD	FG	GL-03	AL	B	GL-02	HS-07	PROVIDE ACCESS CONTROL AND CARD READER.
A212U	OFFICE	3' - 0"	7' - 0"	-	WD	FG	GL-03	AL	B	GL-02	HS-07	PROVIDE ACCESS CONTROL AND CARD READER.
A212V	OFFICE	3' - 0"	7' - 0"	-	WD	FG	GL-03	AL	B	GL-02	HS-07	PROVIDE ACCESS CONTROL AND CARD READER.
A212W	OFFICE	3' - 0"	7' - 0"	-	WD	FG	GL-03	AL	B	GL-02	HS-07	PROVIDE ACCESS CONTROL AND CARD READER.
D151A	STORAGE	3' - 0"	7' - 0"	-	WD	FL	-	HM	A2	-	HS-04	
D151E	GENDER NEUTRAL TOILET	3' - 0"	7' - 0"	-	WD	FL	-	HM	A1	-	HS-06	
D166	EMS OFFICE SUITE	3' - 0"	7' - 0"	-	WD	NFG	GL-01	HM	A1	-	HS-03	
D166A	OFFICE	3' - 0"	7' - 0"	-	WD	NFG	GL-01	HM	A1	-	HS-03	
D166B	OFFICE	3' - 0"	7' - 0"	-	WD	NFG	GL-01	HM	A1	-	HS-03	
D167B	MOCK APARTMENT	3' - 0"	7' - 0"	-	WD	NFG	GL-01	HM	A1	-	HS-02	
D167B.1	MOCK APARTMENT BEDROOM	3' - 0"	7' - 0"	-	WD	NFG	GL-01	HM	A1	-	HS-01	
D167B.2	MOCK APARTMENT BATHROOM	3' - 0"	7' - 0"	-	WD	NFG	GL-01	HM	A1	-	HS-01	
D167C	STORAGE	3' - 0"	7' - 0"	-	WD	FL	-	HM	A1	-	HS-04	
D167D	STORAGE	6' - 0"	7' - 0"	-	WD	FL	-	HM	A1	-	HS-05	



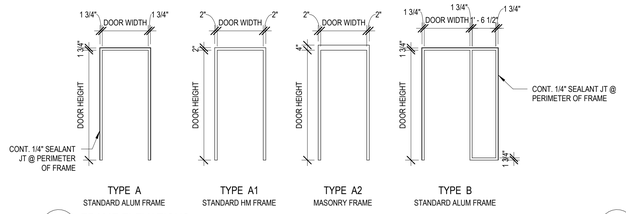
1 DOOR ELEVATIONS
1/4" = 1'-0"



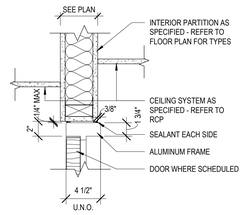
2 HOLLOW METAL FRAME - HEAD & SILL
1 1/2" = 1'-0"



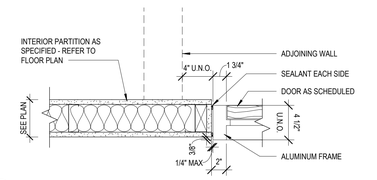
3 HOLLOW METAL FRAME - JAMB
1 1/2" = 1'-0"



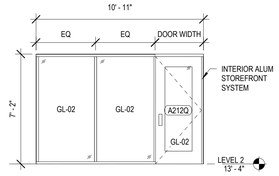
4 FRAME ELEVATIONS
1/4" = 1'-0"



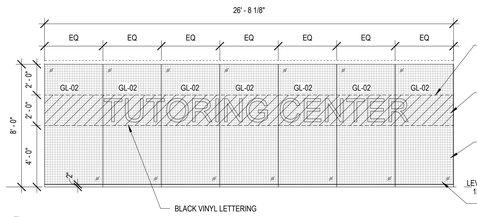
5 ALUMINUM FRAME - HEAD
1 1/2" = 1'-0"



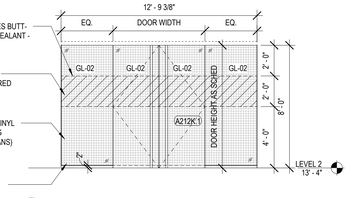
6 ALUMINUM FRAME - JAMB
1 1/2" = 1'-0"



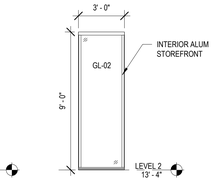
A WINDOW ELEVATION
1/4" = 1'-0"



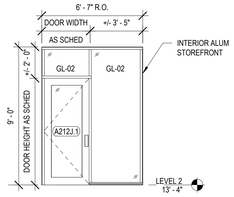
B WINDOW ELEVATION
1/4" = 1'-0"



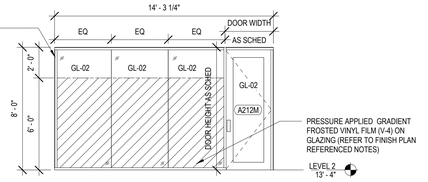
C WINDOW ELEVATION
1/4" = 1'-0"



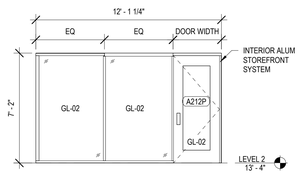
D WINDOW ELEVATION



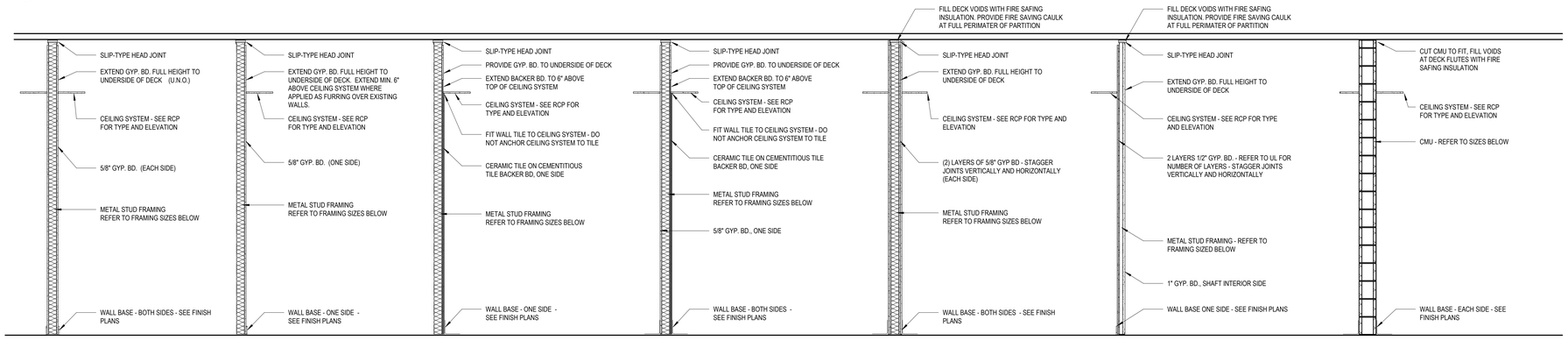
E WINDOW ELEVATION
1/4" = 1'-0"



F WINDOW ELEVATION
1/4" = 1'-0"



G WINDOW ELEVATION
1/4" = 1'-0"



A - GYP BD EACH SIDE
CONSTRUCT PER UL: U419 AT SMOKE AND 1-HR FIRE RESISTANCE RATED PARTITIONS

S1A	1-5/8" METAL STUD FRAMING
S2A	2-1/2" METAL STUD FRAMING
S3A	3-5/8" METAL STUD FRAMING
S6A	6" METAL STUD FRAMING

B - GYP BD ONE SIDE

S1B	1-5/8" METAL STUD FRAMING
S2B	2-1/2" METAL STUD FRAMING
S3B	3-5/8" METAL STUD FRAMING
S6B	6" METAL STUD FRAMING

D - WALL TILE ONE SIDE

S1D	1-5/8" METAL STUD FRAMING
S2D	2-1/2" METAL STUD FRAMING
S3D	3-5/8" METAL STUD FRAMING
S6D	6" METAL STUD FRAMING

E - TILE ONE SIDE, GYP BD ONE SIDE

S1E	1-5/8" METAL STUD FRAMING
S2E	2-1/2" METAL STUD FRAMING
S3E	3-5/8" METAL STUD FRAMING
S6E	6" METAL STUD FRAMING

F - TWO LAYERS OF GYP BD EACH SIDE
CONSTRUCT PER UL: U349 AT SMOKE AND 2-HR FIRE RESISTANCE RATED PARTITIONS

S3F	3-5/8" METAL STUD FRAMING

SW - SHAFT WALL

SW1	2-1/2" C-H STUD SHAFT WALL FRAMING - 1 HR RESISTANCE - CONSTRUCT PER UL: U415 A
SW2	2-1/2" C-H STUD SHAFT WALL FRAMING. 2 HR RESISTANCE - CONSTRUCT PER UL: U415 B

MC - MASONRY WALL

M4C	4" CMU
M6C	6" CMU
M8C	8" CMU

7 WALL PARTITION TYPES
1/2" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2
8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO:24-031

KEY PLAN:

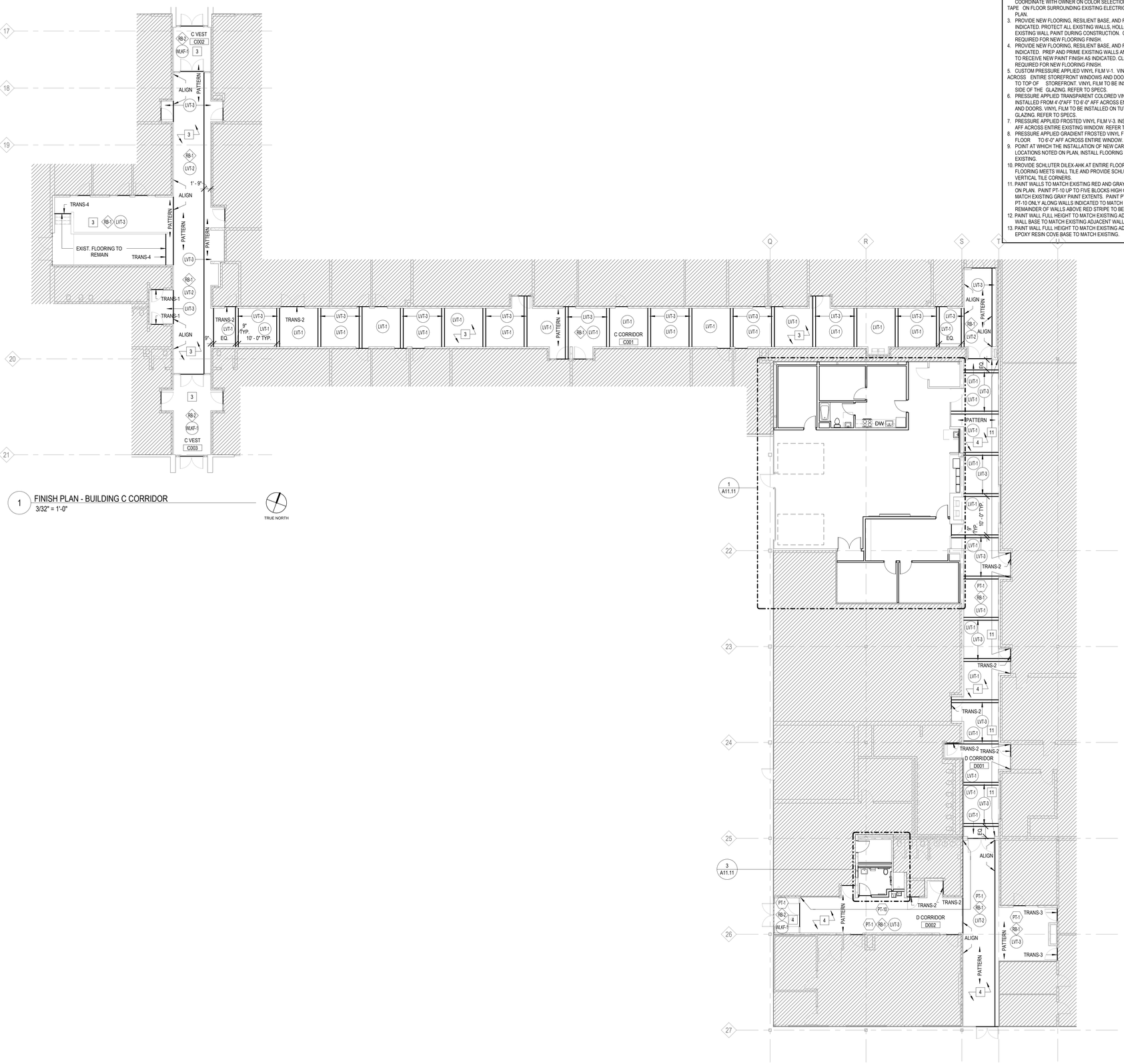
SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
DOOR SCHEDULE, WINDOW ELEV, AND WALL TYPES

SHEET NUMBER:
A10.00

10/17/2024 3:51:33 PM



1 FINISH PLAN - BUILDING C CORRIDOR
3/32" = 1'-0"

TRUE NORTH

FINISH PLAN REFERENCED NOTES: X

1. REFER TO INTERIOR ELEVATIONS FOR EXTENT OF WALL FINISHES AND CLARIFICATIONS.
2. EXISTING CONCRETE PAD BELOW TRANSFORMER TO BE PAINTED SAFETY YELLOW. COORDINATE WITH OWNER ON COLOR SELECTION. PROVIDE SAFETY YELLOW TAPE ON FLOOR SURROUNDING EXISTING ELECTRICAL BOXES AS INDICATED ON PLAN.
3. PROVIDE NEW FLOORING, RESILIENT BASE, AND FLOORING TRANSITIONS AS INDICATED. PROTECT ALL EXISTING WALLS, HOLLOW METAL DOOR FRAMES, AND EXISTING WALL PAINT DURING CONSTRUCTION. CLEAN AND PREP FLOOR SLAB AS REQUIRED FOR NEW FLOORING FINISH.
4. PROVIDE NEW FLOORING, RESILIENT BASE, AND FLOORING TRANSITIONS AS INDICATED. PREP AND PRIME EXISTING WALLS AND HOLLOW METAL DOOR FRAMES TO RECEIVE NEW PAINT FINISH AS INDICATED. CLEAN AND PREP FLOOR SLAB AS REQUIRED FOR NEW FLOORING FINISH.
5. CUSTOM PRESSURE APPLIED VINYL FILM V-1. VINYL FILM TO BE INSTALLED ACROSS ENTIRE STOREFRONT WINDOWS AND DOORS FULL HEIGHT FROM FLOOR TO TOP OF STOREFRONT. VINYL FILM TO BE INSTALLED ON COMPUTERS A212.2 SIDE OF THE GLAZING. REFER TO SPECS.
6. PRESSURE APPLIED TRANSPARENT COLORED VINYL FILM V-2. VINYL FILM TO BE INSTALLED FROM 4'-0"AFF TO 6'-0" AFF ACROSS ENTIRE STOREFRONT WINDOWS AND DOORS. VINYL FILM TO BE INSTALLED ON TUTORING A212A SIDE OF THE GLAZING. REFER TO SPECS.
7. PRESSURE APPLIED FROSTED VINYL FILM V-3. INSTALL FILM FROM 2'-0" AFF TO 6'-0" AFF ACROSS ENTIRE EXISTING WINDOW. REFER TO SPECS.
8. PRESSURE APPLIED GRADIENT FROSTED VINYL FILM V-4. INSTALL FILM FROM FLOOR TO 6'-0" AFF ACROSS ENTIRE WINDOW. REFER TO SPECS.
9. POINT AT WHICH THE INSTALLATION OF NEW CARPET MEETS EXISTING CARPET AT LOCATIONS NOTED ON PLAN, INSTALL FLOORING TO BE SEAMLESS FROM NEW TO EXISTING.
10. PROVIDE SCHLUTER DILEX-AHK AT ENTIRE FLOOR PERIMETER WHEREVER TILE FLOORING MEETS WALL TILE AND PROVIDE SCHLUTER JOLLY TRIM AT ALL VERTICAL TILE CORNERS.
11. PAINT WALLS TO MATCH EXISTING RED AND GRAY PAINT PATTERN AS INDICATED ON PLAN. PAINT PT-10 UP TO FIVE BLOCKS HIGH ONLY ALONG WALLS INDICATED TO MATCH EXISTING GRAY PAINT EXTENTS. PAINT PT-9 STRIPE 1 BLOCK HIGH ABOVE PT-10 ONLY ALONG WALLS INDICATED TO MATCH EXISTING RED PAINT EXTENTS. REMAINDER OF WALLS ABOVE RED STRIPE TO BE PAINTED PT-1.
12. PAINT WALL FULL HEIGHT TO MATCH EXISTING ADJACENT WALLS. PROVIDE NEW WALL BASE TO MATCH EXISTING ADJACENT WALLS.
13. PAINT WALL FULL HEIGHT TO MATCH EXISTING ADJACENT WALLS. PROVIDE NEW EPOXY RESIN COVE BASE TO MATCH EXISTING.

FINISH PLAN SYMBOLS LEGEND:

X WALL FINISH TYPE | X WALL BASE TYPE | X FLOOR FINISH TYPE

FINISH PLAN GENERAL NOTES:

1. PAINT ALL EXPOSED CONDUIT, DUCTWORK, PIPING, ETC. IN ALL FINISHED SPACES. REFER TO INTERIOR FINISH PLANS AND REFLECTED CEILING PLANS FOR CLARIFICATIONS.
2. PAINT ALL EXPOSED METAL ON EXTERIOR INCLUDING, BUT NOT LIMITED TO: CONDUIT, PIPING, FLASHING, MECHANICAL FLUES AND DUCTS, AND HOLLOW METAL FRAMES AND DOORS AS INDICATED.
3. PROVIDE CEMENTITIOUS SELF-LEVELING UNDERLAYMENT AT REMOVAL OF EXISTING FLOOR DRAINS AS REQUIRED TO PROVIDE A LEVEL SUBSTRATE FOR NEW FLOOR FINISH.
4. **ALL FINISHES ARE MONUMENTAL PER ROOM UNLESS NOTED OTHERWISE.**
5. ALL HOLLOW METAL FRAMES IN CORRIDOR D TO BE PAINTED PT-11 UNLESS NOTED OTHERWISE.
6. AT ALL LOCATIONS WHERE CASEWORK IS TO BE INSTALLED, THE SUBSEQUENT BASE TYPE SPECIFIED FOR EACH ROOM SHALL BE INSTALLED OVER CASEWORK TOE KICKS UNLESS NOTED OTHERWISE. REFER TO FLOOR PLANS FOR CASEWORK LOCATIONS.
7. PAINT ALL GYP. BD. CEILINGS PT-1 UNLESS NOTED OTHERWISE.
8. ALL CARPET TILE TO BE INSTALLED ASHLAR UNLESS SPECIFIED OTHERWISE.
9. ALL LVT TO BE INSTALLED RANDOM STAGGERED UNLESS SPECIFIED OTHERWISE.
10. ALL QUARTZ TILE TO BE INSTALLED MONOLITHIC UNLESS SPECIFIED OTHERWISE.
11. ALL FLOOR TILE TO BE INSTALLED RANDOM STAGGERED UNLESS SPECIFIED OTHERWISE.
12. FOR ALL WALLS WITH MULTIPLE WALL FINISH TAGS, REFER TO INTERIOR ELEVATIONS FOR FINISH CLARIFICATION.
13. ALL COLUMNS TO BE PAINTED PT-1 UNLESS NOTED OTHERWISE.
14. CONTRACTOR TO FIELD VERIFY EXISTING FLOORING TYPES IN ALL ROOMS SURROUNDING CORRIDOR C001, VEST C003, CORRIDOR D001, AND CORRIDOR D002 TO CONFIRM TRANSITION TYPES REQUIRED.

WALL FINISH TYPES: X

TYPE	DESCRIPTION	MANUFACTURER	NAME/#/COLOR
PT-1	GENERAL PAINT	BENJAMIN MOORE	2126-70 CHALK WHITE
PT-2	LIGHT GRAY ACCENT PAINT	BENJAMIN MOORE	1480 SLEIGH BELLS
PT-3	MEDIUM GRAY ACCENT PAINT	BENJAMIN MOORE	1482 SABRE GRAY
PT-4	TAUPE ACCENT PAINT	SHERWIN WILLIAMS	SW 9111 ANTLER VELVET
PT-5	LIGHT BLUE ACCENT PAINT	BENJAMIN MOORE	751 SEA ISLE
PT-6	PURPLE ACCENT PAINT	BENJAMIN MOORE	2068-10 MAJESTIC VIOLET
PT-7	BLACK ACCENT PAINT	BENJAMIN MOORE	2132-10 BLACK
PT-8	MEDIUM BLUE ACCENT PAINT	BENJAMIN MOORE	761 MERIDIAN BLUE
PT-9	RED ACCENT PAINT	SHERWIN WILLIAMS	COLOR MATCH TO FIRE ENGINE RED. COORD WITH OWNER
PT-10	GRAY ACCENT PAINT	SHERWIN WILLIAMS	COLOR MATCH TO SW-6256 SERIOUS GRAY. COORD WITH OWNER
PT-11	HOLLOW METAL FRAMES	SHERWIN WILLIAMS, SUPERPAINT, SATIN FINISH	COLOR MATCH TO ANSI 70 GRAY. COORD WITH OWNER FOR COLOR MATCH CODE
WC-1	WALL COVERING	MAHARAM - KNOLL TEXTILES	CASCADE WC2244 / 300148-003 ECHO
WT-1	CERAMIC WALL TILE	VIRGINIATILE	ANATOLIA SOHO, CANVAS WHITE GLOSSY, 8X16
PWP-1	PERFORATED WOOD PANEL	SEE SPEC	SEE SPEC
WD-3	3/4" X 2" SOLID WOOD EDGE TRIM TO MATCH PWP-1	SEE SPEC	SEE SPEC

WALL BASE TYPES: X

TYPE	DESCRIPTION	MANUFACTURER	NAME/#/COLOR
RB-1	4"H COVE RUBBER BASE	JOHNSONITE	40 BLACK
RB-2	4"H STRAIGHT RUBBER BASE	JOHNSONITE	40 BLACK

FLOOR FINISH TYPES: X

TYPE	DESCRIPTION	MANUFACTURER	NAME/#/COLOR
CPT-1	CARPET TILE	INTERFACE	HAPTIC / 106459 BLACK, 9X39
CPT-2	CARPET TILE	MOHAWK GROUP	COLOR BALANCE / 484 BLOSSOM, 12X36
CPT-3	CARPET TILE	INTERFACE	WALK THE PLANK / 008764 MAPLE, 9X39
CPT-4	CARPET TILE	INTERFACE	PAINTED GESTURE / 105973 NEUTRAL, 9X39
CPT-5	CARPET TILE	SHAW CONTRACT	WANDER TILE / 5T039 SMOKE, 24X24, INSTALL: MONOLITHIC
CPT-6	CARPET TILE	PATCRAFT	SLOPE / 00599 POINT, 12X48
LVT-1	LUXURY VINYL TILE	SHAW CONTRACT	BRANCHING OUT / 56140 RIVERSIDE OAK, 6X48
LVT-2	LUXURY VINYL TILE	SHAW CONTRACT	INLET / 26535 THISTLE, 9X48
LVT-3	LUXURY VINYL TILE	SHAW CONTRACT	INLET / 26549 RAW, 9X48
QT-1	QUARTZ TILE	KAHRS UPOFLOOR	QUARTZ MOSAIC / 8302 CONGLOMERATE GREY, 24X24
T-1	PORCELAIN FLOOR TILE	ATLAS CONCORDE USA	HOMELAND / HOMELAND WHEAT, 8X40
SC	SEALED CONCRETE	SEE SPEC	SEE SPEC
WLKF-1	WALK OFF CARPET	SHAW CONTRACT	WELCOME II TILE / 31549 CHARCOAL, 24X24. INSTALL: MONOLITHIC

FLOOR TRANSITION TYPES: TRANS-X

TYPE	DESCRIPTION	MANUFACTURER	NAME/#/COLOR
TRANS-1	1/4" TO 1/2"	JOHNSONITE	CE-XX-C, COLOR: 40 BLACK
TRANS-2	1/4" TO SUBFLOOR	JOHNSONITE	SLT-XX-L, COLOR: 40 BLACK
TRANS-3	1/4" TO 1/8"	JOHNSONITE	SLT-XX-A, COLOR: 40 BLACK
TRANS-4	1/4" TO 1/8"	JOHNSONITE	CTA-XX-H, COLOR: 40 BLACK

CORNER GUARD TYPES: CG-X

TYPE	DESCRIPTION	MANUFACTURER	COLOR/ LENGTH
CG-1	WHITE	CS GROUP	VA SERIES, 3/4" X 3/4" ADHESIVE APPLIED, FULL HEIGHT, COLOR: WHITE 949
CG-2	BLACK	CS GROUP	VA SERIES, 3/4" X 3/4" ADHESIVE APPLIED, FULL HEIGHT, COLOR: BLACK 108
CG-3	TAUPE	CS GROUP	VA SERIES, 3/4" X 3/4" ADHESIVE APPLIED, FULL HEIGHT, COLOR: BEIGE 103
CG-4	PURPLE	CS GROUP	LG SERIES, 3/4" X 3/4" ADHESIVE APPLIED, 48"H, COLOR: CLEAR

dka

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO:24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

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SHEET TITLE:
FINISH PLANS

SHEET NUMBER:
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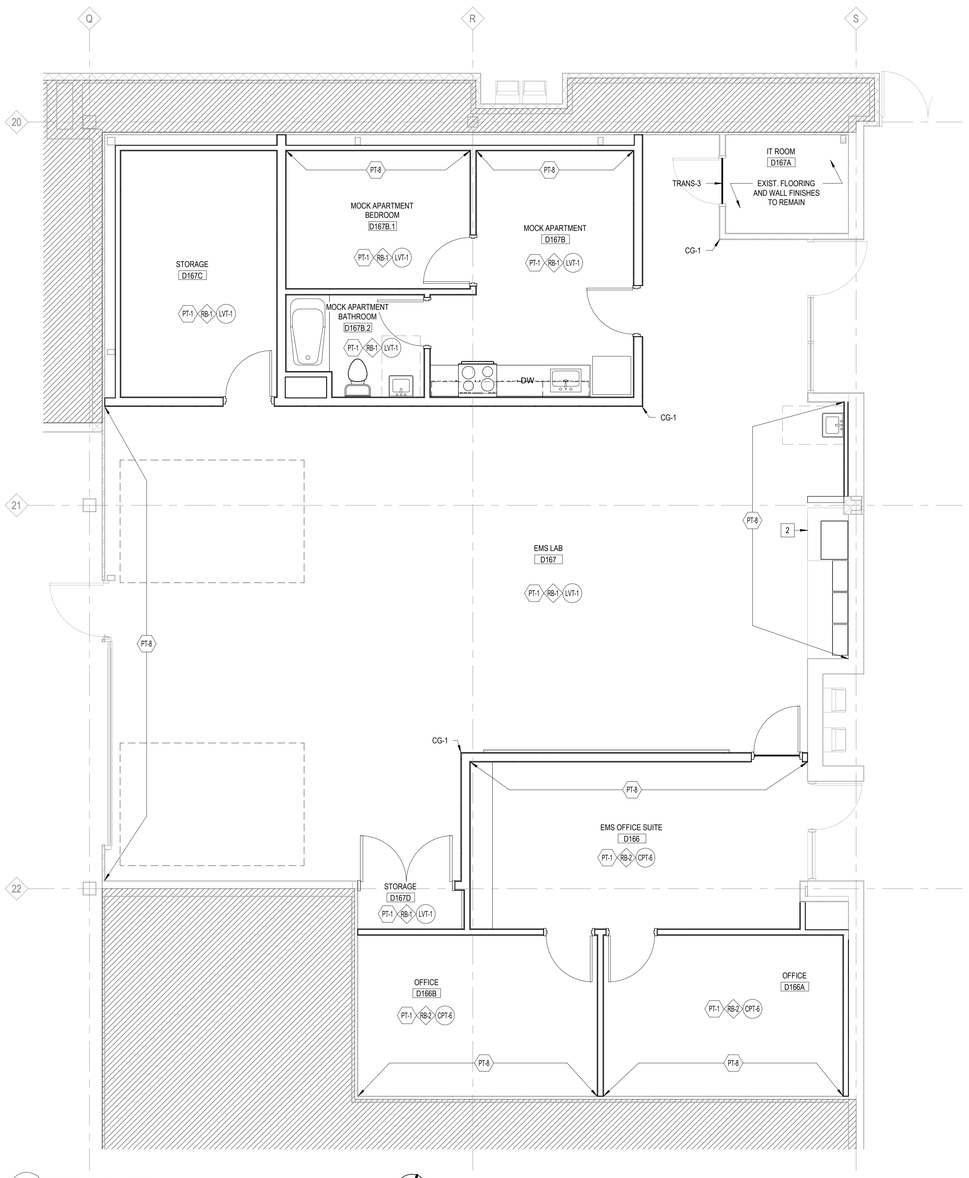
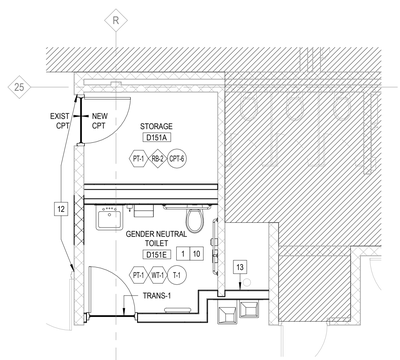


1 FINISH PLAN - EMS
1/4" = 1'-0"

TRUE NORTH



3 FINISH PLAN - TOILET
1/4" = 1'-0"

TRUE NORTH

FINISH PLAN REFERENCED NOTES:

1. REFER TO INTERIOR ELEVATIONS FOR EXTENT OF WALL FINISHES AND CLARIFICATIONS.
2. EXISTING CONCRETE PAD BELOW TRANSFORMER TO BE PAINTED SAFETY YELLOW. COORDINATE WITH OWNER ON COLOR SELECTION. PROVIDE SAFETY YELLOW TAPE ON FLOOR SURROUNDING EXISTING ELECTRICAL BOXES AS INDICATED ON PLAN.
3. PROVIDE NEW FLOORING, RESILIENT BASE, AND FLOORING TRANSITIONS AS INDICATED. PROTECT ALL EXISTING WALLS, HOLLOW METAL DOOR FRAMES, AND EXISTING WALL PAINT DURING CONSTRUCTION. CLEAN AND PREP FLOOR SLAB AS REQUIRED FOR NEW FLOORING FINISH.
4. PROVIDE NEW FLOORING, RESILIENT BASE, AND FLOORING TRANSITIONS AS INDICATED. PREP AND PRIME EXISTING WALLS AND HOLLOW METAL DOOR FRAMES TO RECEIVE NEW PAINT FINISH AS INDICATED. CLEAN AND PREP FLOOR SLAB AS REQUIRED FOR NEW FLOORING FINISH.
5. CUSTOM PRESSURE APPLIED VINYL FILM V-1. VINYL FILM TO BE INSTALLED ACROSS ENTIRE STOREFRONT WINDOWS AND DOORS FULL HEIGHT FROM FLOOR TO TOP OF STOREFRONT. VINYL FILM TO BE INSTALLED ON COMPUTERS A212.2 SIDE OF THE GLAZING. REFER TO SPECS.
6. PRESSURE APPLIED TRANSPARENT COLORED VINYL FILM V-2. VINYL FILM TO BE INSTALLED FROM 4'-0"AFF TO 6'-0" AFF ACROSS ENTIRE STOREFRONT WINDOWS AND DOORS. VINYL FILM TO BE INSTALLED ON TUTORING A212A SIDE OF THE GLAZING. REFER TO SPECS.
7. PRESSURE APPLIED FROSTED VINYL FILM V-3. INSTALL FILM FROM 2'-0" AFF TO 6'-0" AFF ACROSS ENTIRE EXISTING WINDOW. REFER TO SPECS.
8. PRESSURE APPLIED GRADIENT FROSTED VINYL FILM V-4. INSTALL FILM FROM FLOOR TO 6'-0" AFF ACROSS ENTIRE WINDOW. REFER TO SPECS.
9. POINT AT WHICH THE INSTALLATION OF NEW CARPET MEETS EXISTING CARPET AT LOCATIONS NOTED ON PLAN. INSTALL FLOORING TO BE SEAMLESS FROM NEW TO EXISTING.
10. PROVIDE SCHLUTER DILEX-AHK AT ENTIRE FLOOR PERIMETER WHEREVER TILE FLOORING MEETS WALL TILE AND PROVIDE SCHLUTER JOLLY TRIM AT ALL VERTICAL TILE CORNERS.
11. PAINT WALLS TO MATCH EXISTING RED AND GRAY PAINT PATTERN AS INDICATED ON PLAN. PAINT PT-10 UP TO FIVE BLOCKS HIGH ONLY ALONG WALLS INDICATED TO MATCH EXISTING GRAY PAINT EXTENTS. PAINT PT-9 STRIPE 1 BLOCK HIGH ABOVE PT-10 ONLY ALONG WALLS INDICATED TO MATCH EXISTING RED PAINT EXTENTS. REMAINDER OF WALLS ABOVE RED STRIPE TO BE PAINTED PT-1.
12. PAINT WALL FULL HEIGHT TO MATCH EXISTING ADJACENT WALLS. PROVIDE NEW WALL BASE TO MATCH EXISTING ADJACENT WALLS.
13. PAINT WALL FULL HEIGHT TO MATCH EXISTING ADJACENT WALLS. PROVIDE NEW EPOXY RESIN COVE BASE TO MATCH EXISTING.

FINISH PLAN SYMBOLS LEGEND:

X WALL FINISH TYPE | X WALL BASE TYPE | X FLOOR FINISH TYPE

FINISH PLAN GENERAL NOTES:

1. PAINT ALL EXPOSED CONDUIT, DUCTWORK, PIPING, ETC. IN ALL FINISHED SPACES. REFER TO INTERIOR FINISH PLANS AND REFLECTED CEILING PLANS FOR CLARIFICATIONS.
2. PAINT ALL EXPOSED METAL ON EXTERIOR INCLUDING, BUT NOT LIMITED TO: CONDUIT, PIPING, FLASHING, MECHANICAL FLUES AND DUCTS, AND HOLLOW METAL FRAMES AND DOORS AS INDICATED.
3. PROVIDE CEMENTITIOUS SELF-LEVELING UNDERLAYMENT AT REMOVAL OF EXISTING FLOOR DRAINS AS REQUIRED TO PROVIDE A LEVEL SUBSTRATE FOR NEW FLOOR FINISH.
4. **ALL FINISHES ARE MONUMENTAL PER ROOM UNLESS NOTED OTHERWISE.**
5. ALL HOLLOW METAL FRAMES IN CORRIDOR D TO BE PAINTED PT-11 UNLESS NOTED OTHERWISE.
6. AT ALL LOCATIONS WHERE CASEWORK IS TO BE INSTALLED, THE SUBSEQUENT BASE TYPE SPECIFIED FOR EACH ROOM SHALL BE INSTALLED OVER CASEWORK TOE KICKS UNLESS NOTED OTHERWISE. REFER TO FLOOR PLANS FOR CASEWORK LOCATIONS.
7. PAINT ALL GYP. BD. CEILINGS PT-1 UNLESS NOTED OTHERWISE.
8. ALL CARPET TILE TO BE INSTALLED ASHLAR UNLESS SPECIFIED OTHERWISE.
9. ALL LVT TO BE INSTALLED RANDOM STAGGERED UNLESS SPECIFIED OTHERWISE.
10. ALL QUARTZ TILE TO BE INSTALLED MONOLITHIC UNLESS SPECIFIED OTHERWISE.
11. ALL FLOOR TILE TO BE INSTALLED RANDOM STAGGERED UNLESS SPECIFIED OTHERWISE.
12. FOR ALL WALLS WITH MULTIPLE WALL FINISH TAGS, REFER TO INTERIOR ELEVATIONS FOR FINISH CLARIFICATION.
13. ALL COLUMNS TO BE PAINTED PT-1 UNLESS NOTED OTHERWISE.
14. CONTRACTOR TO FIELD VERIFY EXISTING FLOORING TYPES IN ALL ROOMS SURROUNDING CORRIDOR C001, VEST C003, CORRIDOR D001, AND CORRIDOR D002 TO CONFIRM TRANSITION TYPES REQUIRED.

WALL FINISH TYPES:

TYPE	DESCRIPTION	MANUFACTURER	NAME/#/COLOR
PT-1	GENERAL PAINT	BENJAMIN MOORE	2126-70 CHALK WHITE
PT-2	LIGHT GRAY ACCENT PAINT	BENJAMIN MOORE	1480 SLEIGH BELLS
PT-3	MEDIUM GRAY ACCENT PAINT	BENJAMIN MOORE	1482 SABRE GRAY
PT-4	TAUPE ACCENT PAINT	SHERWIN WILLIAMS	SW 9111 ANTLER VELVET
PT-5	LIGHT BLUE ACCENT PAINT	BENJAMIN MOORE	751 SEA ISLE
PT-6	PURPLE ACCENT PAINT	BENJAMIN MOORE	2068-10 MAJESTIC VIOLET
PT-7	BLACK ACCENT PAINT	BENJAMIN MOORE	2132-10 BLACK
PT-8	MEDIUM BLUE ACCENT PAINT	BENJAMIN MOORE	761 MERIDIAN BLUE
PT-9	RED ACCENT PAINT	SHERWIN WILLIAMS	COLOR MATCH TO FIRE ENGINE RED. COORD WITH OWNER
PT-10	GRAY ACCENT PAINT	SHERWIN WILLIAMS	COLOR MATCH TO SW-6256 SERIOUS GRAY. COORD WITH OWNER
PT-11	HOLLOW METAL FRAMES	SHERWIN WILLIAMS, SUPERPAINT, SATIN FINISH	COLOR MATCH TO ANSI 70 GRAY. COORD WITH OWNER FOR COLOR MATCH CODE
WC-1	WALL COVERING	MAHARAM - KNOLL TEXTILES	CASCADE WC2244 / 300148-003 ECHO
WT-1	CERAMIC WALL TILE	VIRGINIATILE	ANATOLIA SOHO, CANVAS WHITE GLOSSY, 8X16
PWP-1	PERFORATED WOOD PANEL	SEE SPEC	SEE SPEC
WD-3	3/4" X 2" SOLID WOOD EDGE TRIM TO MATCH PWP-1	SEE SPEC	SEE SPEC

WALL BASE TYPES:

TYPE	DESCRIPTION	MANUFACTURER	NAME/#/COLOR
RB-1	4"H COVE RUBBER BASE	JOHNSONITE	40 BLACK
RB-2	4"H STRAIGHT RUBBER BASE	JOHNSONITE	40 BLACK

FLOOR FINISH TYPES:

TYPE	DESCRIPTION	MANUFACTURER	NAME/#/COLOR
CPT-1	CARPET TILE	INTERFACE	HAPTIC / 106459 BLACK, 9X39
CPT-2	CARPET TILE	MOHAWK GROUP	COLOR BALANCE / 484 BLOSSOM, 12X36
CPT-3	CARPET TILE	INTERFACE	WALK THE PLANK / 008764 MAPLE, 9X39
CPT-4	CARPET TILE	INTERFACE	PAINTED GESTURE / 105973 NEUTRAL, 9X39
CPT-5	CARPET TILE	SHAW CONTRACT	WANDER TILE / 5T039 SMOKE, 24X24, INSTALL: MONOLITHIC
CPT-6	CARPET TILE	PATCRAFT	SLOPE / 00599 POINT, 12X48
LVT-1	LUXURY VINYL TILE	SHAW CONTRACT	BRANCHING OUT / 56140 RIVERSIDE OAK, 6X48
LVT-2	LUXURY VINYL TILE	SHAW CONTRACT	INLET / 26535 THISTLE, 9X48
LVT-3	LUXURY VINYL TILE	SHAW CONTRACT	INLET / 26549 RAW, 9X48
QT-1	QUARTZ TILE	KAHRS UPOFLOOR	QUARTZ MOSAIC / 8302 CONGLOMERATE GREY, 24X24
T-1	PORCELAIN FLOOR TILE	ATLAS CONCORDE USA	HOMELAND / HOMELAND WHEAT, 8X40
SC	SEALED CONCRETE	SEE SPEC	SEE SPEC
WLKF-1	WALK OFF CARPET	SHAW CONTRACT	WELCOME II TILE / 31549 CHARCOAL, 24X24, INSTALL: MONOLITHIC

FLOOR TRANSITION TYPES:

TRANS-X

TYPE	DESCRIPTION	MANUFACTURER	NAME/#/COLOR
TRANS-1	1/4" TO 1/2"	JOHNSONITE	CE-XX-C, COLOR: 40 BLACK
TRANS-2	1/4" TO SUBFLOOR	JOHNSONITE	SLT-XX-L, COLOR: 40 BLACK
TRANS-3	1/4" TO 1/8"	JOHNSONITE	SLT-XX-A, COLOR: 40 BLACK
TRANS-4	1/4" TO 1/8"	JOHNSONITE	CTA-XX-H, COLOR: 40 BLACK

CORNER GUARD TYPES:

CG-X

TYPE	DESCRIPTION	MANUFACTURER	COLOR/ LENGTH
CG-1	WHITE	CS GROUP	VA SERIES, 3/4" X 3/4" ADHESIVE APPLIED, FULL HEIGHT, COLOR: WHITE 949
CG-2	BLACK	CS GROUP	VA SERIES, 3/4" X 3/4" ADHESIVE APPLIED, FULL HEIGHT, COLOR: BLACK 108
CG-3	TAUPE	CS GROUP	VA SERIES, 3/4" X 3/4" ADHESIVE APPLIED, FULL HEIGHT, COLOR: BEIGE 103
CG-4	PURPLE	CS GROUP	LG SERIES, 3/4" X 3/4" ADHESIVE APPLIED, 48"H, COLOR: CLEAR

dka

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO:24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
FINISH PLANS

SHEET NUMBER:
A11.11

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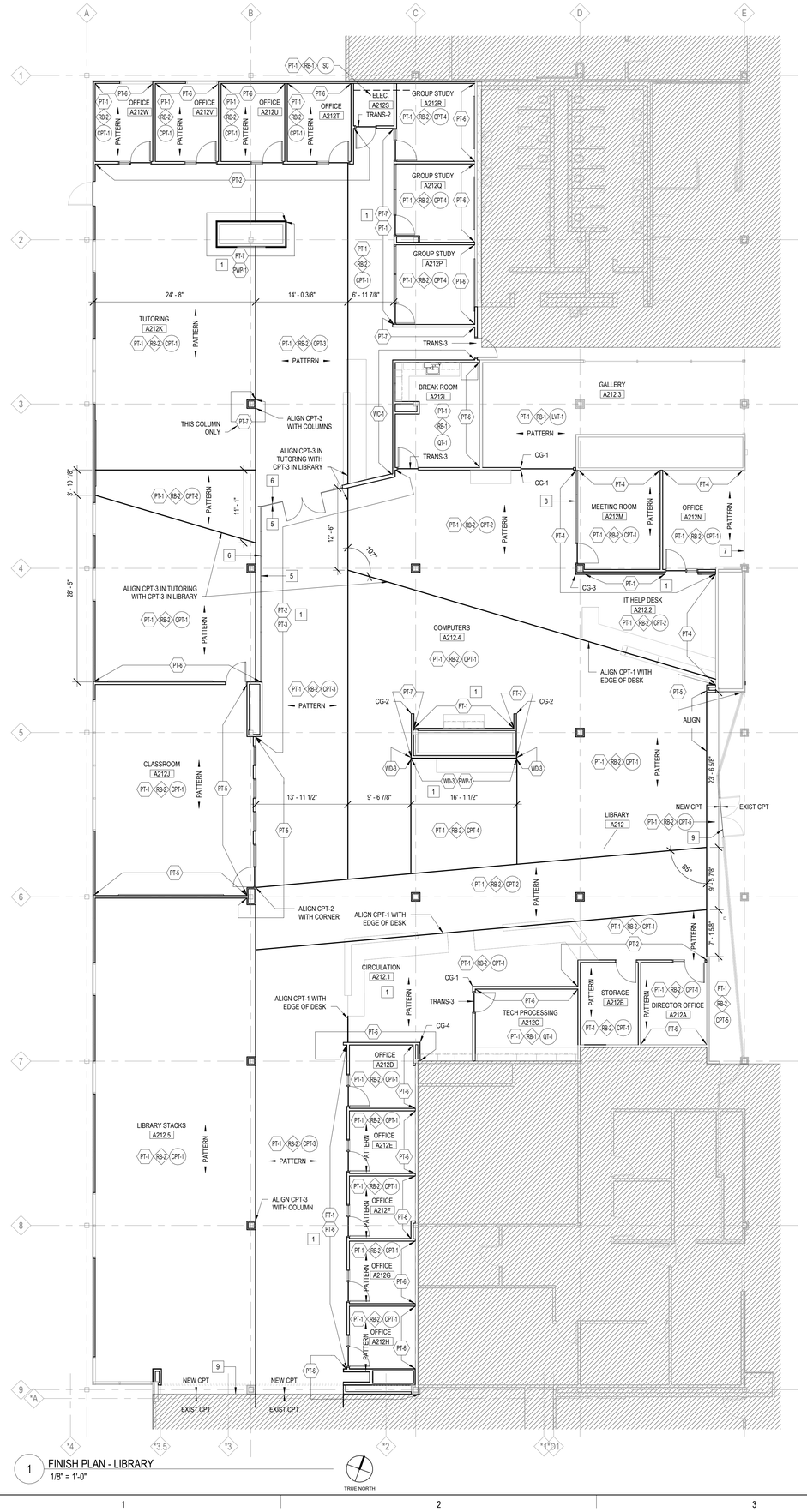

1 FINISH PLAN - LIBRARY
1/8" = 1'-0"

TRUE NORTH

FINISH PLAN REFERENCED NOTES: X

1. REFER TO INTERIOR ELEVATIONS FOR EXTENT OF WALL FINISHES AND CLARIFICATIONS.
2. EXISTING CONCRETE PAD BELOW TRANSFORMER TO BE PAINTED SAFETY YELLOW. COORDINATE WITH OWNER ON COLOR SELECTION. PROVIDE SAFETY YELLOW TAPE ON FLOOR SURROUNDING EXISTING ELECTRICAL BOXES AS INDICATED ON PLAN.
3. PROVIDE NEW FLOORING, RESILIENT BASE, AND FLOORING TRANSITIONS AS INDICATED. PROTECT ALL EXISTING WALLS, HOLLOW METAL DOOR FRAMES, AND EXISTING WALL PAINT DURING CONSTRUCTION. CLEAN AND PREP FLOOR SLAB AS REQUIRED FOR NEW FLOORING FINISH.
4. PROVIDE NEW FLOORING, RESILIENT BASE, AND FLOORING TRANSITIONS AS INDICATED. PREP AND PRIME EXISTING WALLS AND HOLLOW METAL DOOR FRAMES TO RECEIVE NEW PAINT FINISH AS INDICATED. CLEAN AND PREP FLOOR SLAB AS REQUIRED FOR NEW FLOORING FINISH.
5. CUSTOM PRESSURE APPLIED VINYL FILM V-1. VINYL FILM TO BE INSTALLED ACROSS ENTIRE STOREFRONT WINDOWS AND DOORS FULL HEIGHT FROM FLOOR TO TOP OF STOREFRONT. VINYL FILM TO BE INSTALLED ON COMPUTERS A212.2 SIDE OF THE GLAZING. REFER TO SPECS.
6. PRESSURE APPLIED TRANSPARENT COLORED VINYL FILM V-2. VINYL FILM TO BE INSTALLED FROM 4'-0"AFF TO 6'-0" AFF ACROSS ENTIRE STOREFRONT WINDOWS AND DOORS. VINYL FILM TO BE INSTALLED ON TUTORING A212A SIDE OF THE GLAZING. REFER TO SPECS.
7. PRESSURE APPLIED FROSTED VINYL FILM V-3. INSTALL FILM FROM 2'-0" AFF TO 6'-0" AFF ACROSS ENTIRE WINDOW. REFER TO SPECS.
8. PRESSURE APPLIED GRADIENT FROSTED VINYL FILM V-4. INSTALL FILM FROM FLOOR TO 6'-0" AFF ACROSS ENTIRE WINDOW. REFER TO SPECS.
9. POINT AT WHICH THE INSTALLATION OF NEW CARPET MEETS EXISTING CARPET AT LOCATIONS NOTED ON PLAN. INSTALL FLOORING TO BE SEAMLESS FROM NEW TO EXISTING.
10. PROVIDE SCHLUTER DILEX-AHK AT ENTIRE FLOOR PERIMETER WHEREVER TILE FLOORING MEETS WALL TILE AND PROVIDE SCHLUTER JOLLY TRIM AT ALL VERTICAL TILE CORNERS.
11. PAINT WALLS TO MATCH EXISTING RED AND GRAY PAINT PATTERN AS INDICATED ON PLAN. PAINT PT-10 UP TO FIVE BLOCKS HIGH ONLY ALONG WALLS INDICATED TO MATCH EXISTING GRAY PAINT EXTENTS. PAINT PT-9 STRIPE 1 BLOCK HIGH ABOVE PT-10 ONLY ALONG WALLS INDICATED TO MATCH EXISTING RED PAINT EXTENTS. REMAINDER OF WALLS ABOVE RED STRIPE TO BE PAINTED PT-1.
12. PAINT WALL FULL HEIGHT TO MATCH EXISTING ADJACENT WALLS. PROVIDE NEW WALL BASE TO MATCH EXISTING ADJACENT WALLS.
13. PAINT WALL FULL HEIGHT TO MATCH EXISTING ADJACENT WALLS. PROVIDE NEW EPOXY RESIN COVE BASE TO MATCH EXISTING.

FINISH PLAN SYMBOLS LEGEND:

X WALL FINISH TYPE | X WALL BASE TYPE | X FLOOR FINISH TYPE

FINISH PLAN GENERAL NOTES:

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4. **ALL FINISHES ARE MONUMENTAL PER ROOM UNLESS NOTED OTHERWISE.**
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PT-5	LIGHT BLUE ACCENT PAINT	BENJAMIN MOORE	751 SEA ISLE
PT-6	PURPLE ACCENT PAINT	BENJAMIN MOORE	2068-10 MAJESTIC VIOLET
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WC-1	WALL COVERING	MAHARAM - KNOLL TEXTILES	CASCADE WC2244 / 300148-003 ECHO
WT-1	CERAMIC WALL TILE	VIRGINIATILE	ANATOLIA SOHO, CANVAS WHITE GLOSSY, 8X16
PWP-1	PERFORATED WOOD PANEL	SEE SPEC	SEE SPEC
WD-3	3/4" X 2" SOLID WOOD EDGE TRIM TO MATCH PWP-1	SEE SPEC	SEE SPEC

WALL BASE TYPES: X

TYPE	DESCRIPTION	MANUFACTURER	NAME/#/COLOR
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FLOOR FINISH TYPES: X

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CPT-5	CARPET TILE	SHAW CONTRACT	WANDER TILE / 5T039 SMOKE, 24X24, INSTALL: MONOLITHIC
CPT-6	CARPET TILE	PATCRAFT	SLOPE / 00599 POINT, 12X48
LVT-1	LUXURY VINYL TILE	SHAW CONTRACT	BRANCHING OUT / 56140 RIVERSIDE OAK, 6X48
LVT-2	LUXURY VINYL TILE	SHAW CONTRACT	INLET / 26535 THISTLE, 9X48
LVT-3	LUXURY VINYL TILE	SHAW CONTRACT	INLET / 26549 RAW, 9X48
QT-1	QUARTZ TILE	KAHRS UPOFLOOR	QUARTZ MOSAIC / 8302 CONGLOMERATE GREY, 24X24
T-1	PORCELAIN FLOOR TILE	ATLAS CONCORDE USA	HOMELAND / HOMELAND WHEAT, 8X40
SC	SEALED CONCRETE	SEE SPEC	SEE SPEC
WLKF-1	WALK OFF CARPET	SHAW CONTRACT	WELCOME IT TILE / 31549 CHARCOAL, 24X24, INSTALL: MONOLITHIC

FLOOR TRANSITION TYPES: TRANS-X

TYPE	DESCRIPTION	MANUFACTURER	NAME/#/COLOR
TRANS-1	1/4" TO 1/2"	JOHNSONITE	CE-XX-C, COLOR: 40 BLACK
TRANS-2	1/4" TO SUBFLOOR	JOHNSONITE	SLT-XX-L, COLOR: 40 BLACK
TRANS-3	1/4" TO 1/8"	JOHNSONITE	SLT-XX-A, COLOR: 40 BLACK
TRANS-4	1/4" TO 1/8"	JOHNSONITE	CTA-XX-H, COLOR: 40 BLACK

CORNER GUARD TYPES: CG-X

TYPE	DESCRIPTION	MANUFACTURER	COLOR/ LENGTH
CG-1	WHITE	CS GROUP	VA SERIES, 3/4" X 3/4" ADHESIVE APPLIED, FULL HEIGHT, COLOR: WHITE 949
CG-2	BLACK	CS GROUP	VA SERIES, 3/4" X 3/4" ADHESIVE APPLIED, FULL HEIGHT, COLOR: BLACK 108
CG-3	TAUPE	CS GROUP	VA SERIES, 3/4" X 3/4" ADHESIVE APPLIED, FULL HEIGHT, COLOR: BEIGE 103
CG-4	PURPLE	CS GROUP	LG SERIES, 3/4" X 3/4" ADHESIVE APPLIED, 48"H, COLOR: CLEAR

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO:24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
FINISH PLANS

SHEET NUMBER:
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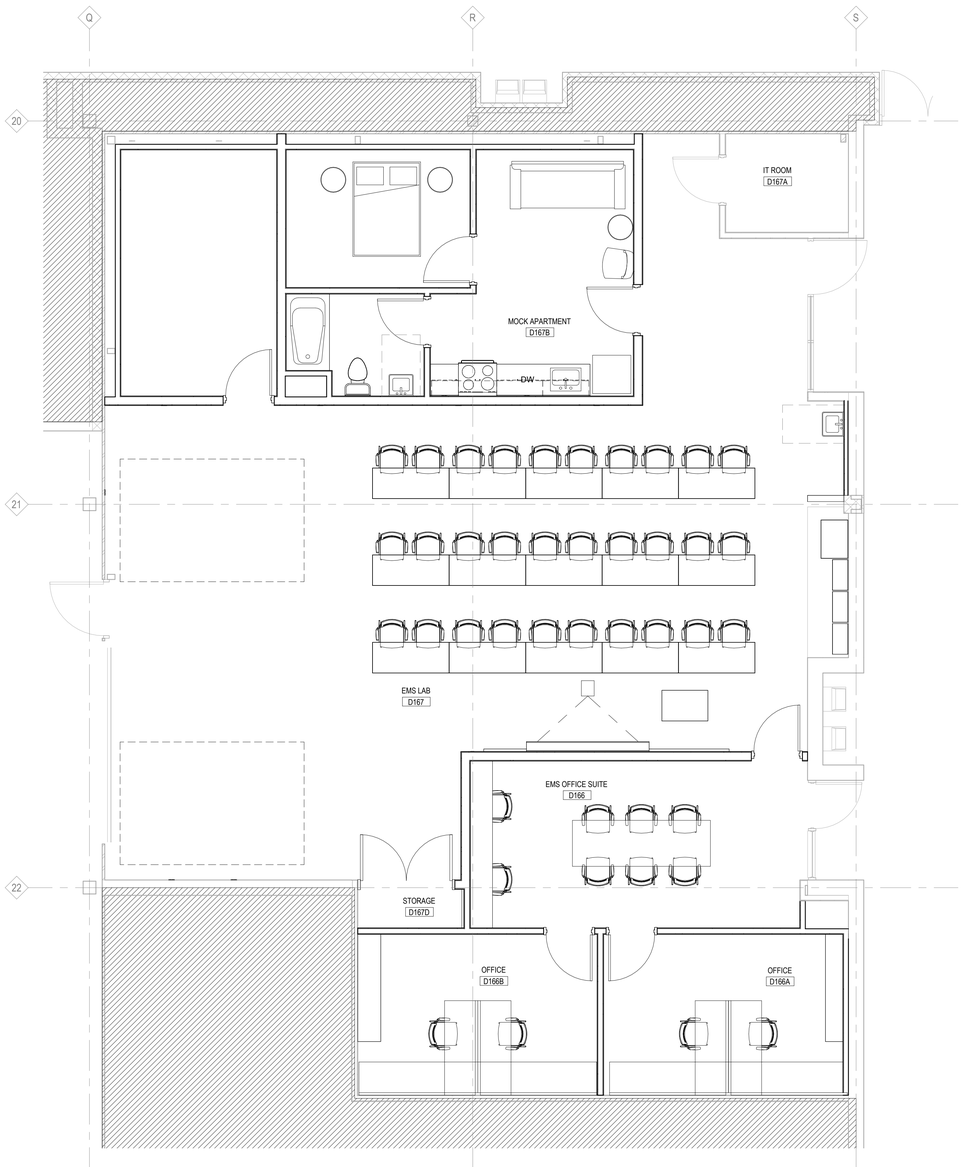

1 FURNITURE PLAN - EMS (FOR REFERENCE ONLY)
1/4" = 1'-0"

TRUE NORTH

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DEMONICA KEMPER ARCHITECTS
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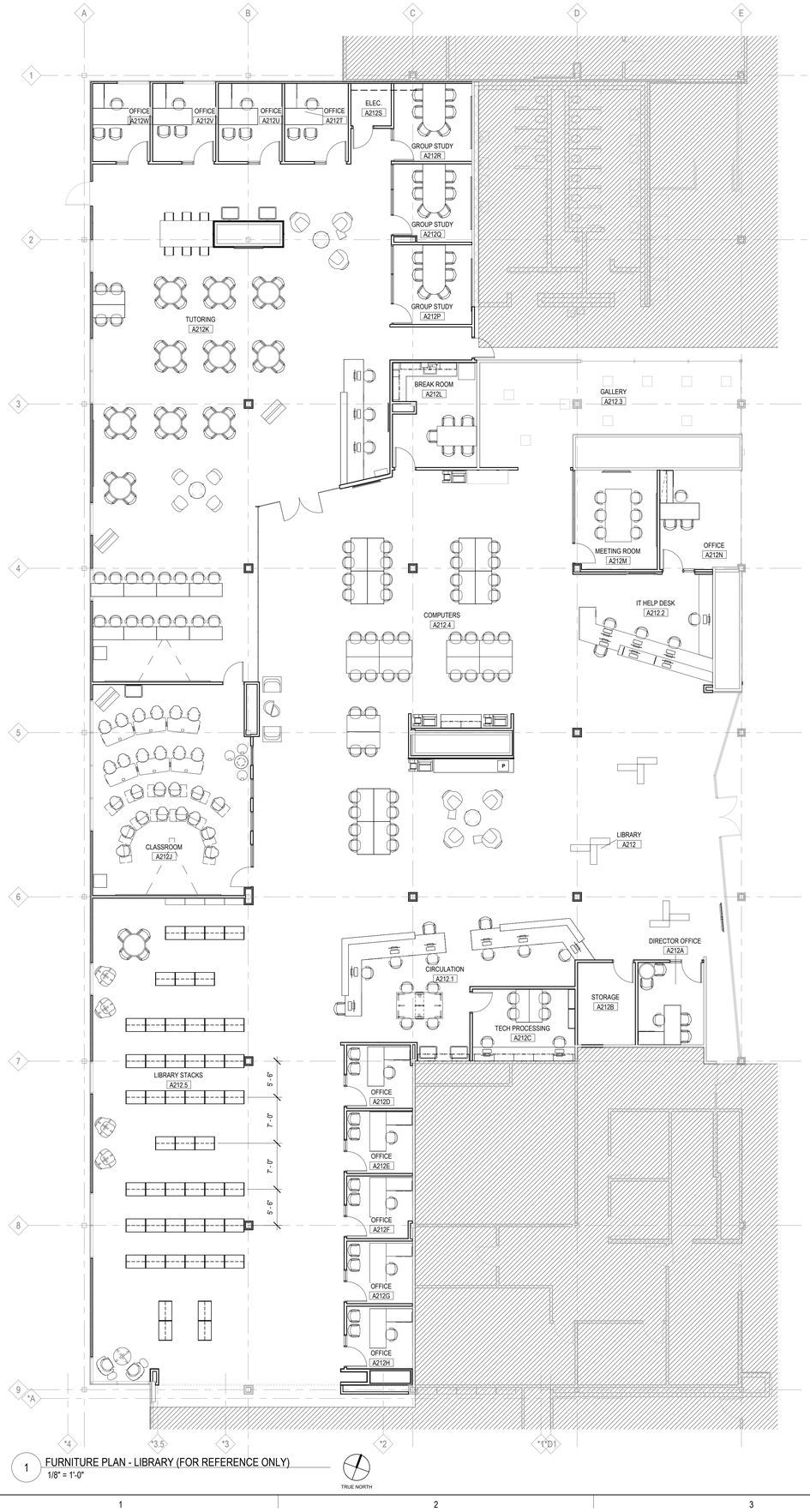

1 FURNITURE PLAN - LIBRARY (FOR REFERENCE ONLY)
1/8" = 1'-0"

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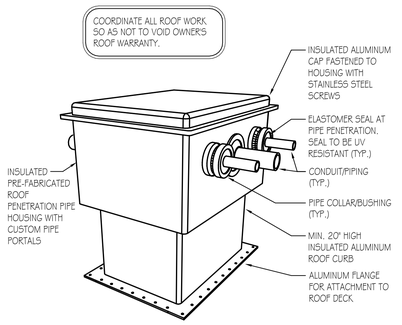
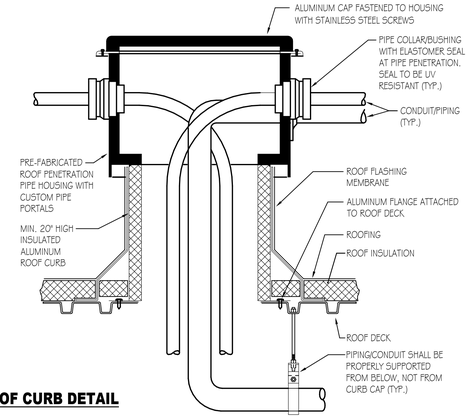
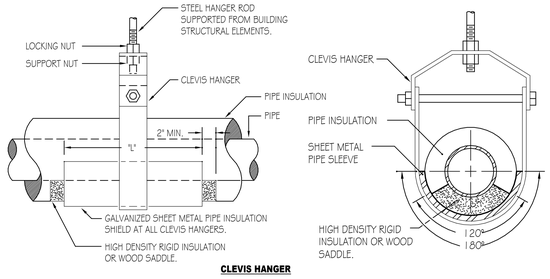




PIPING OR CONDUIT ROOF CURB DETAIL

NO SCALE



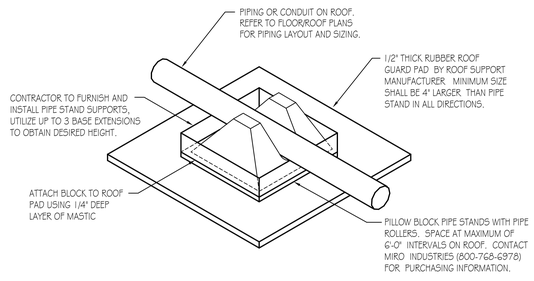
CLEVIS HANGER

PIPE INSULATION SHIELD SCHEDULE		
PIPE SIZE	LENGTH	GAUGE
UP TO 3/4"	8"	20 GA.
1" - 2"	12"	18 GA.
2 1/2" - 4"	12"	16 GA.

NOTE: 1. CONFER WITH ARCHITECT AND REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON ACCEPTABLE METHODS AND LOCATIONS FOR HANGER SUPPORTS.

TYPICAL PIPE HANGER DETAILS

NO SCALE



PIPING OR CONDUIT (UP TO 3" DIA.) ROOF SUPPORT DETAIL

NO SCALE

GENERAL REMODELING NOTES - ALL CONTRACTORS

1. ALL WORK SHOWN ON DRAWINGS SHALL BE CONSIDERED NEW AND IN CONTRACT UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. DRAWINGS ARE GENERALLY DIAGRAMMATIC. ROUTING OF PIPING, DUCTWORK, CONDUITS, RACEWAYS, ETC. AS SHOWN ON DRAWINGS, DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. EACH CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS, SUCH AS OFFSETS, BENDS OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN COMPLETION DATE OF THE PROJECT.
3. IT IS INTENDED THAT EQUIPMENT SHALL BE LOCATED SYMMETRICALLY WITH THE ARCHITECTURAL ELEMENTS OF THE BUILDING, NOTWITHSTANDING THE FACT THAT LOCATIONS INDICATED BY THESE DRAWINGS MAY BE DISTORTED FOR CLEARNESS OF PRESENTATION.
4. CONTRACTOR SHALL CHECK DRAWINGS OF OTHER TRADES TO VERIFY THAT SPACES IN WHICH THEIR WORK WILL BE INSTALLED ARE CLEAR OF OBSTRUCTIONS. WORK SHALL BE INSTALLED TO MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS IN THE BUILDING. WHERE HEADROOM OR SPACE CONDITIONS APPEAR INADEQUATE, CONTRACTOR SHALL NOTIFY OWNER/ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE INSTALLATION OF THEIR WORK.
5. CONTRACTOR SHALL FURNISH OTHER TRADES ADVANCE INFORMATION AND/OR SHOP DRAWINGS ON LOCATIONS AND SIZES OF PIPING, DUCTWORK, CONDUIT, RACEWAYS, EQUIPMENT, FRAMES, BOXES, SLEEVES AND OPENINGS, ETC. NEEDED FOR THEIR WORK TO PERMIT OTHER TRADES AFFECTED TO INSTALL THEIR WORK PROPERLY AND WITHOUT DELAY.
6. WHERE THERE IS EVIDENCE THAT WORK OF ONE TRADE WILL INTERFERE WITH WORK OF OTHER TRADES, ALL TRADES SHALL MEET ON JOB SITE TO WORK OUT SPACE CONDITIONS AND MAKE SATISFACTORY ADJUSTMENTS TO INSTALLATION OF THE NEW WORK. CONTRACTORS SHALL VERIFY EXACT LOCATIONS OF ALL DEVICES AND EQUIPMENT WITH FIELD CONDITIONS, SHOP DRAWINGS, AND WORK OF OTHER TRADES PRIOR TO ROUGH-IN. EACH CONTRACTOR SHALL BE RESPONSIBLE, AT THEIR OWN EXPENSE, FOR THE REMOVAL AND REINSTALLATION OF ANY PART OF THEIR WORK IF SAME WAS INSTALLED WITHOUT CONSULTING WITH OTHER TRADES BEFORE INSTALLING THEIR WORK.
7. CONTRACTOR SHALL PROVIDE SLEEVES IN BEAMS, FLOORS, COLUMNS AND WALLS AS SHOWN ON THE DRAWINGS, AS REQUIRED BY JOB SITE CONDITIONS, AND/OR AS SPECIFIED, WHEN INSTALLING THEIR WORK. ALL BEAMS AND COLUMNS WHICH ARE REQUIRED TO BE SLEEVED SHALL BE CUT AND REINFORCED AS REQUIRED BY FIELD CONDITIONS AND LOCATIONS AND SIZES SHALL BE CHECKED AND APPROVED BY ARCHITECT BEFORE CONTRACTOR CUTS ANY STRUCTURAL BUILDING MEMBER.
8. THE SEQUENCE FOR THE INSTALLATION OF ALL WORK SHALL BE COORDINATED BETWEEN ALL CONTRACTORS ON THE PROJECT AND IN STRICT ACCORDANCE WITH ARCHITECT/ENGINEER AND OWNERS STIPULATION AS DIRECTED.
9. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND STRUCTURAL CONTRACT DRAWINGS (BEFORE SUBMITTING THEIR BIDS) TO FAMILIARIZE THEMSELVES WITH THE EXTENT OF THE GENERAL CONTRACTOR'S WORK, CEILING HEIGHTS AND CLEARANCE FOR INSTALLING THEIR WORK.
10. CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL CORING, CUTTING, PATCHING, REPAIRING, REFINISHING AND REMOVAL/REPLACEMENT OF NEW OR EXISTING BUILDING CONSTRUCTION REQUIRED TO ACCOMMODATE THE INSTALLATION OR REMOVAL OF THEIR WORK. ALL PATCHING, REPAIRING AND REFINISHING WORK SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE ADJACENT CONSTRUCTION AS CLOSELY AS POSSIBLE. CARE SHALL BE TAKEN SO AS NOT TO DAMAGE ANY EXISTING BUILDING CONSTRUCTION OR ITEMS THAT ARE TO REMAIN. ANY EXISTING FINISHES THAT ARE DAMAGED DURING THE INSTALLATION OF NEW WORK OR REMOVAL OF EXISTING WORK SHALL BE REPAIRED, REPLACED AND PAID FOR BY THE INSTALLING CONTRACTOR, TO THE SATISFACTION OF THE ARCHITECT AND OWNER. REFER TO ARCHITECTURAL DRAWINGS FOR EXISTING BUILDING CONSTRUCTION THAT IS TO REMAIN AND, THEREFORE, SUBJECT TO PATCHING, REPAIRING, REFINISHING, AND REMOVAL/REPLACEMENT. (NOTE: CONTRACTOR SHALL VERIFY EXISTING BUILDING'S ROOF WARRANTY AND EMPLOY OTHER SUBCONTRACTOR(S) AS REQUIRED BY ROOF MANUFACTURER'S REPRESENTATIVE SO AS NOT TO VOID OWNER'S ROOF WARRANTY.)
11. SOME OF THE EXISTING ITEMS AND EQUIPMENT SCHEDULED TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER. ANY ITEMS THAT THE OWNER WANTS TO RETAIN SHALL BE REMOVED CAREFULLY SO AS NOT TO DAMAGE THEM. ALL OTHER ITEMS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR OWN CLEAN-UP DURING CONSTRUCTION. IF CONTRACTOR FAILS TO PROVIDE SUCH CLEAN-UP, THE ARCHITECT/ENGINEER WILL DIRECT ANOTHER CONTRACTOR TO PERFORM THE CLEAN-UP AND THE NEGLIGENT CONTRACTOR SHALL PAY THE ASSOCIATED BACK-CHARGES AS DEEMED APPROPRIATE BY THE ARCHITECT/ENGINEER.
13. CONTRACTOR SHALL INSTALL ALL AUXILIARY SUPPORTING STEEL AS REQUIRED FOR THE SUPPORTING OF THEIR PIPING, DUCTWORK, CONDUIT, TANKS, EQUIPMENT, ETC. ALL SUPPORTING STEEL FOR ITEMS ABOVE A SUSPENDED CEILING SHALL BE FROM BUILDING STRUCTURAL MEMBERS ONLY.
14. IT IS MANDATORY THAT THE COMPLETE EXISTING BUILDING REMAIN IN CONTINUOUS AND NON-INTERRUPTED OPERATION DURING REMODELING/ALTERING OF SAID EXISTING BUILDING. THE SPECIFIC AREA(S) BEING REMODELED/ALTERED AT ANY SCHEDULED TIME ARE OBVIOUSLY EXCLUSIVE OF THIS STATEMENT. SERVICES TO EXISTING BUILDING SHALL BE KEPT IN CONTINUOUS OPERATION INCLUDING POWER, SIGNAL SYSTEMS, LIGHTING, TELEPHONE, HEATING, COOLING, VENTILATING, TEMPERATURE CONTROL, SEWERS AND HOT AND COLD WATER. ANY ABSOLUTELY NECESSARY INTERRUPTION OF THESE SERVICES TO ACCOMPLISH CONTRACT WORK SHALL BE ARRANGED WITH THE OWNER A MINIMUM OF TEN (10) WORKING DAYS IN ADVANCE. SUCH INTERRUPTIONS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AS FAR AS TIME INTERVAL IS INVOLVED AND TEMPORARY SERVICES SHALL BE FURNISHED AND INSTALLED UNDER THIS CONTRACT WHERE NECESSARY TO ACCOMPLISH THIS PURPOSE. TEMPORARIES SHALL BE REMOVED BY THE CONTRACTOR ONLY AFTER NEW PERMANENT SERVICES ARE INSTALLED AND FULLY OPERATIONAL.
15. UNLESS INDICATED OTHERWISE, THE ARCHITECT/ENGINEER MAKES NO REPRESENTATION AS TO WHETHER OR NOT ANY HAZARDOUS OR CONTAMINATED MATERIALS (INCLUDING BUT NOT LIMITED TO ASBESTOS, PCB'S, CONTAMINATED SOILS, ETC.) ARE PRESENT WITHIN THE EXISTING BUILDING OR ON THE SITE. WORK SHOWN ON THE DRAWINGS AND/OR INDICATED IN THE SPECIFICATIONS SHALL NOT BE CONSTRUED TO CALL FOR CONTACT WITH ANY OF THESE MATERIALS. IF THESE MATERIALS ARE ENCOUNTERED OR SUSPECTED, THE CONTRACTOR SHALL NOT DISTURB THEM AND SHALL CONTACT THE ARCHITECT/ENGINEER IMMEDIATELY.
16. WHERE WORK CALLED FOR ON THE DRAWINGS OR IN THE SPECIFICATIONS INVOLVES THE REMOVAL OR RELOCATION OF PIPING OR EQUIPMENT CONTAINING REFRIGERANT, ALL REFRIGERANT SHALL BE RECOVERED BY APPROVED METHODS PER EPA REGULATIONS.
17. CONTRACTOR SHALL STORE ALL MATERIALS AND EQUIPMENT SHIPPED TO THE SITE IN A PROTECTED AREA. IF MATERIAL IS STORED OUTSIDE OF THE BUILDING, IT MUST BE STORED OFF THE GROUND A MINIMUM OF SIX INCHES (6") SET ON 6 X 6 PLANKS AND/OR WOOD PALLETS. ALL MATERIAL AND EQUIPMENT MUST BE COMPLETELY COVERED WITH WATERPROOF TARPS OR VISQUIN. ALL PIPING AND DUCTWORK WILL HAVE THE ENDS CLOSED TO KEEP OUT DIRT AND OTHER DEBRIS. NO EQUIPMENT WILL BE ALLOWED TO BE STORED OUTSIDE THE BUILDING ON THE SITE UNLESS IT IS SUPPORTED OFF THE GROUND AND COMPLETELY PROTECTED WITH WEATHERPROOF COVERS.
18. THE DRAWINGS, SCHEDULES AND SPECIFICATIONS HAVE BEEN PREPARED USING ONE MANUFACTURER FOR EACH PIECE OF EQUIPMENT AS THE BASIS FOR DIMENSIONAL DESIGN. IF THE CONTRACTOR PURCHASES EQUIPMENT FROM A SPECIFIED ACCEPTABLE MANUFACTURER, BUT NOT THE SCHEDULED MANUFACTURER USED FOR THE BASE DESIGN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL THE DIMENSIONS OF THE EQUIPMENT TO VERIFY THAT IT WILL FIT IN THE SPACE SHOWN ON THE DRAWINGS. MINOR DEVIATIONS IN DIMENSIONS WILL BE PERMITTED, PROVIDED THE RATINGS MEET THOSE SHOWN ON THE DRAWINGS AND EQUIPMENT WILL PHYSICALLY FIT INTO THE SPACE ALLOCATED WITH SUITABLE ACCESS AROUND EQUIPMENT FOR OPERATION AND MAINTENANCE OF THE EQUIPMENT. WHEN EQUIPMENT SUBMITTED FOR REVIEW DOES NOT MEET THE PHYSICAL SIZE OR ARRANGEMENT OF THAT SCHEDULED AND SPECIFIED, CONTRACTOR SHALL PAY FOR ALL ALTERATIONS REQUIRED TO ACCOMMODATE SUCH EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR WILL ALSO PAY ALL COSTS FOR ADDITIONAL WORK REQUIRED BY OTHER CONTRACTORS, OWNER, ARCHITECT OR ENGINEER TO MAKE CHANGES WHICH WOULD ALLOW THE EQUIPMENT TO FIT IN THE SPACE AND FUNCTION AS INTENDED.
19. CONTRACTOR AND/OR MANUFACTURER SHALL VERIFY THAT THE CHARACTERISTICS OF THE EQUIPMENT SUBMITTED FOR REVIEW MEETS THE CAPACITY AND DUTY SPECIFIED. WHEN EQUIPMENT SUBMITTED FOR REVIEW REQUIRES MODIFICATIONS TO THE WORK OF OTHER CONTRACTORS, SUBMITTING CONTRACTOR SHALL PAY FOR ALL COSTS FOR ADDITIONAL WORK REQUIRED BY OTHER CONTRACTORS, OWNER, ARCHITECT OR ENGINEER TO MAKE CHANGES WHICH WOULD ALLOW THE EQUIPMENT FUNCTION SAFELY AND PROPERLY.
20. CONTRACTOR SHALL FIELD VERIFY THE SIZE OF EXISTING OPENINGS, WINDOWS, DOORS, CORRIDORS, ROOMS, ETC. FOR ACCESS OF THE NEW EQUIPMENT INTO OR REMOVAL OF EXISTING EQUIPMENT FROM THE BUILDING. IF OPENINGS ARE TOO SMALL FOR ACCESS THEN CONTRACTOR SHALL, AT THEIR OWN EXPENSE, PROVIDE NEW OR ENLARGED OPENINGS AND RESTORE SAME TO ORIGINAL SIZE AND CONDITION. CONTRACTOR MAY ELECT TO ORDER THE EQUIPMENT DISASSEMBLED AND/OR WITH SPLIT HOUSING FOR ENTRANCE INTO THE EXISTING SPACE OR BUILDING. CONTRACTOR SHALL REASSEMBLE EQUIPMENT AFTER IT IS IN THE SPACE AT THEIR OWN EXPENSE.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND THEIR ASSOCIATED FEES.
22. CONTRACTOR SHALL SUBMIT DIGITAL COPIES OF SHOP DRAWINGS OF ALL EQUIPMENT, DIFFUSERS, REGISTERS, TEMPERATURE CONTROL SYSTEM, FIRE DAMPERS, LIGHTING FIXTURES, PANELBOARDS, ELECTRICAL DEVICES, PLUMBING FIXTURES, ETC. TO ENGINEER FOR APPROVAL PRIOR TO ORDERING ANY ITEMS OR FABRICATING ANY DUCTWORK.
23. CONTRACTOR SHALL PROVIDE OWNER TRAINING ON ALL EQUIPMENT AND BUILDING SYSTEMS PROVIDED/ALTERED BY THEIR WORK. TRAINING SHALL BE ACCOMPLISHED DURING TIME DEDICATED FOR THAT PURPOSE, NOT IN CONJUNCTION WITH SERVICE WORK. SEE SPECIAL TEMPERATURE CONTROL TRAINING INSTRUCTIONS ELSEWHERE.
24. AT COMPLETION OF PROJECT, CONTRACTOR SHALL SUBMIT ONE PHYSICAL AND DIGITAL COPIES OF OPERATION AND MAINTENANCE MANUALS FOR ALL WORK PROVIDED BY THEM ON PROJECT. MANUALS SHALL BE CLEARLY ORGANIZED AND CONTAIN COPIES OF APPROVED EQUIPMENT, SHOP DRAWINGS, EQUIPMENT PARTS LISTS, SERVICE CONTACTS, CONTRACTOR AND MANUFACTURER WARRANTEES, AND "AS BUILT" FLOOR PLANS.
25. CONTRACTOR SHALL PROVIDE WARRANTY FOR ALL MATERIAL AND GUARANTEE ALL WORKMANSHIP PROVIDED BY THEM FOR 1 (ONE) YEAR FROM SUBSTANTIAL COMPLETION OF WORK INVOLVED.
26. CONTRACTOR SHALL MAINTAIN A CURRENT CRYSTAL LAKE LICENSE THROUGHOUT ALL PHASES OF CONSTRUCTION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE ALL INSPECTIONS WITH THE CRYSTAL LAKE OFFICIALS. CONTRACTOR SHALL PROVIDE ANY MINIMUM PRIOR NOTICE FOR INSPECTIONS WITH CRYSTAL LAKE OFFICIALS.
27. IDENTIFY ALL PIPING AND DUCTWORK WITH PLASTIC LABELS INDICATING CONTENTS AND FLOW DIRECTION. MARKERS TO BE PLACED AT A MAXIMUM OF 50 FT. INTERVALS AT BRANCH CONNECTIONS, AND AT BOTH SIDES OF WALL/FLOOR PENETRATIONS. IDENTIFY VALVES, EQUIPMENT, AND PANELS WITH ENGRAVED 3-LAYER PLASTIC LAMINATED TAGS OR SIGNS. IN ADDITION TO PROVIDING ENGRAVED PLASTIC NAMEPLATES ON THE VAV AND FPB BOXES, PROVIDE ENGRAVED PLASTIC NAMEPLATES ON THE CEILING GRID BELOW THE BOX. THE NAMEPLATE SHALL BE NO WIDER THAN THE WIDTH OF THE GRID (WHITE WITH BLACK LETTERS).

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2
8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

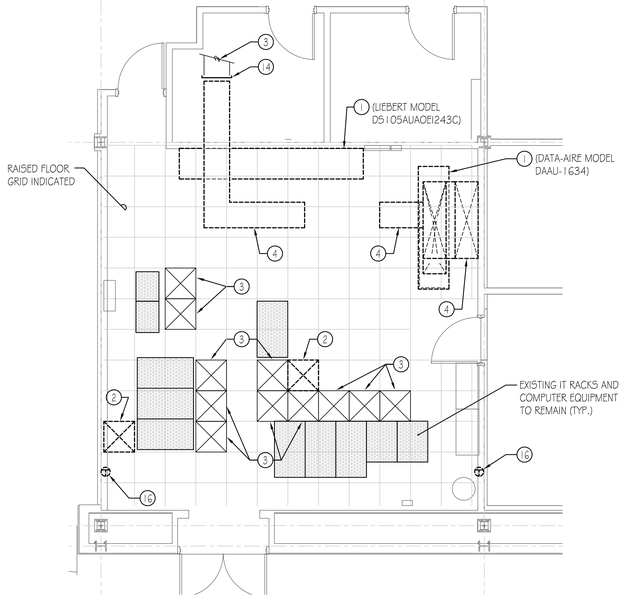
SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

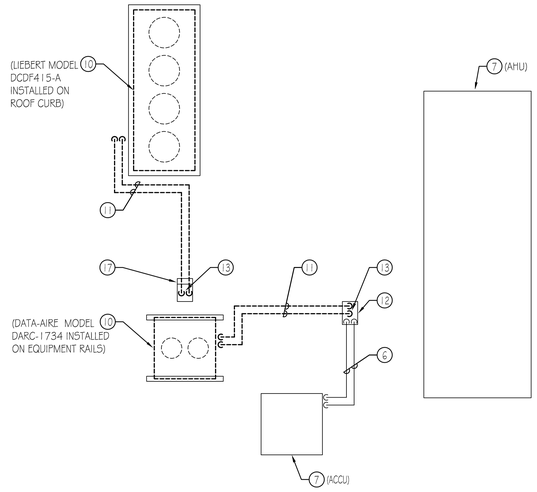
SHEET TITLE:
MEP NOTES AND DETAILS

SHEET NUMBER:
ME1.00

10/16/2024 11:17:39 AM

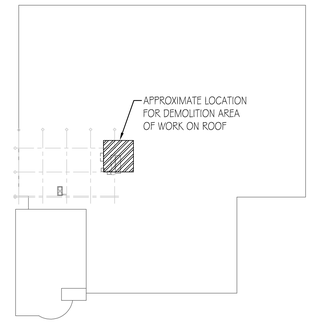


2 LOWER LEVEL - DEMOLITION HVAC PLAN - VENTILATION
1/4" = 1'-0"



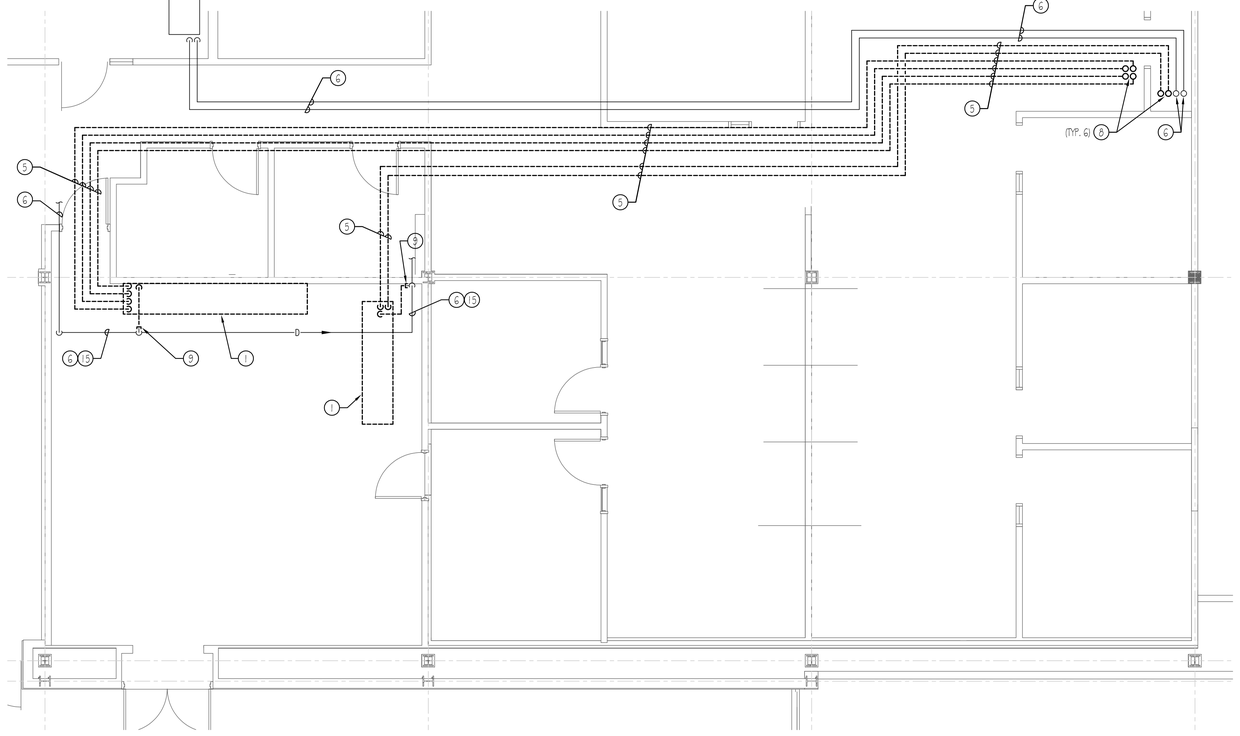
3 ROOF LEVEL - DEMOLITION HVAC PLAN
1/4" = 1'-0"

TRUE NORTH



4 OVERALL ROOF PLAN
NO SCALE

TRUE NORTH



1 LOWER LEVEL - DEMOLITION HVAC PLAN - PIPING
1/4" = 1'-0"

TRUE NORTH

DRAWING NOTES: (TYPICAL FOR THIS DRAWING ONLY)

1. REMOVE EXISTING COMPUTER COOLING UNIT INCLUDING ASSOCIATED DUCTWORK, DAMPERS, REFRIGERANT PIPING, VALVING, CONTROLS, HANGERS, SUPPORTS, INSULATION, CONDENSATE PUMP, EQUIPMENT SUPPORT, ETC. MODIFY DRAIN PIPING AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW UNIT. COORDINATE REMOVAL OF POWER WITH ELECTRICAL CONTRACTOR. COORDINATE REMOVAL OF DOMESTIC WATER WITH PLUMBING CONTRACTOR.
2. REMOVE EXISTING FLOOR SUPPLY GRILLE SHOWN DASHED. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
3. EXISTING DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES TO REMAIN.
4. REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED. REMOVE ASSOCIATED EXISTING DUCTWORK ROUTED ABOVE CEILING.
5. REMOVE ALL PIPING, VALVING, HANGERS, INSULATION, ETC. BETWEEN CONDENSING UNIT LOCATED ON ROOF TO ASSOCIATED INDOOR UNIT SHOWN DASHED.
6. EXISTING PIPING AND VALVING TO REMAIN.
7. EXISTING HVAC EQUIPMENT TO REMAIN.
8. REMOVE REFRIGERANT PIPING SHOWN DASHED TO FLOOR ABOVE. REMOVE EXISTING REFRIGERANT PIPING ROUTED FROM FLOOR ABOVE AND OVER TO ROOF CURB.
9. CAP EXISTING PIPE AT LOCATION SHOWN AND REMOVE ALL PIPING, VALVING, HANGERS, INSULATION, ETC. SHOWN DASHED BEYOND THIS POINT.
10. REMOVE EXISTING COMPUTER COOLING UNIT CONDENSING UNIT LOCATED ON ROOF INCLUDING ASSOCIATED REFRIGERANT PIPING, VALVING, CONTROLS, INSULATION, ETC. COORDINATE REMOVAL OF POWER WITH ELECTRICAL CONTRACTOR. REMOVE EXISTING ROOF CURB/EQUIPMENT RAILS AND PATCH TO MATCH EXISTING.
11. REMOVE ALL PIPING, VALVING, HANGERS, INSULATION, ETC. BETWEEN CONDENSING UNIT LOCATED ON ROOF DOWN TO ASSOCIATED INDOOR UNIT SHOWN DASHED.
12. EXISTING PIPE CURB TO REMAIN AND BE SEALED/CAPPED TO ACCOMMODATE REMOVAL OF EXISTING REFRIGERANT PIPING, CONDUITS, WIRING, ETC.
13. REMOVE EXISTING REFRIGERANT PIPING ROUTED THRU PIPE CURB AND TO FLOOR BELOW. REMOVE PIPING WITHIN CEILING ON FLOOR BELOW AND DOWN THRU CHASE TO LOWER LEVEL.
14. CAP EXISTING DUCT AT LOCATION SHOWN AND REMOVE ALL DUCTWORK, REGISTERS, DIFFUSERS, HANGERS, INSULATION, ETC. SHOWN DASHED BEYOND THIS POINT.
15. FIELD VERIFY EXISTING DRAIN PIPING AND CONFIGURATION. PROVIDE REPORT TO ENGINEER IF THE INDICATED PIPING IS NOT DRAIN PIPING, OR HAS A DIFFERENT CONFIGURATION THAN INDICATED ON PLAN. TAPE EXISTING INSULATION AROUND PIPING CLOSED WHERE SEALANT HAS FAILED AND EXISTING PIPING IS EXPOSED.
16. COORDINATE REMOVAL OF EXISTING THERMOSTAT CONNECTED TO REMOVED EQUIPMENT, INCLUDING ASSOCIATED CONDUIT, WIRING, PNEUMATIC TUBING, ETC. LOCATED ABOVE ANY ACCESSIBLE CEILING BETWEEN THERMOSTAT AND THE UNIT IT CONTROLS. PROVIDE BLANK COVER PLATE OVER ALL ABANDONED JUNCTION BOXES IN WALLS THAT ARE TO REMAIN.
17. REMOVE EXISTING PIPE CURB IF ALL PIPING AND CONDUIT/WIRING HAS BEEN REMOVED AND PATCH/SEAL TO MATCH EXISTING. IF ANY ACTIVE PIPING, CONDUIT, WIRING, ETC. IS TO REMAIN, SEAL/CAP WEATHERTIGHT TO ACCOMMODATE REMOVAL OF EXISTING PIPING, WIRING, CONDUITS, ETC.

BID ALTERNATE #3:
IF THIS ALTERNATE IS ACCEPTED, DO NOT PERFORM ANY WORK SHOWN WITHIN THIS DASHED AREA.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO:24-031

KEY PLAN:

SHEET STATUS: 10/17/2024

ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

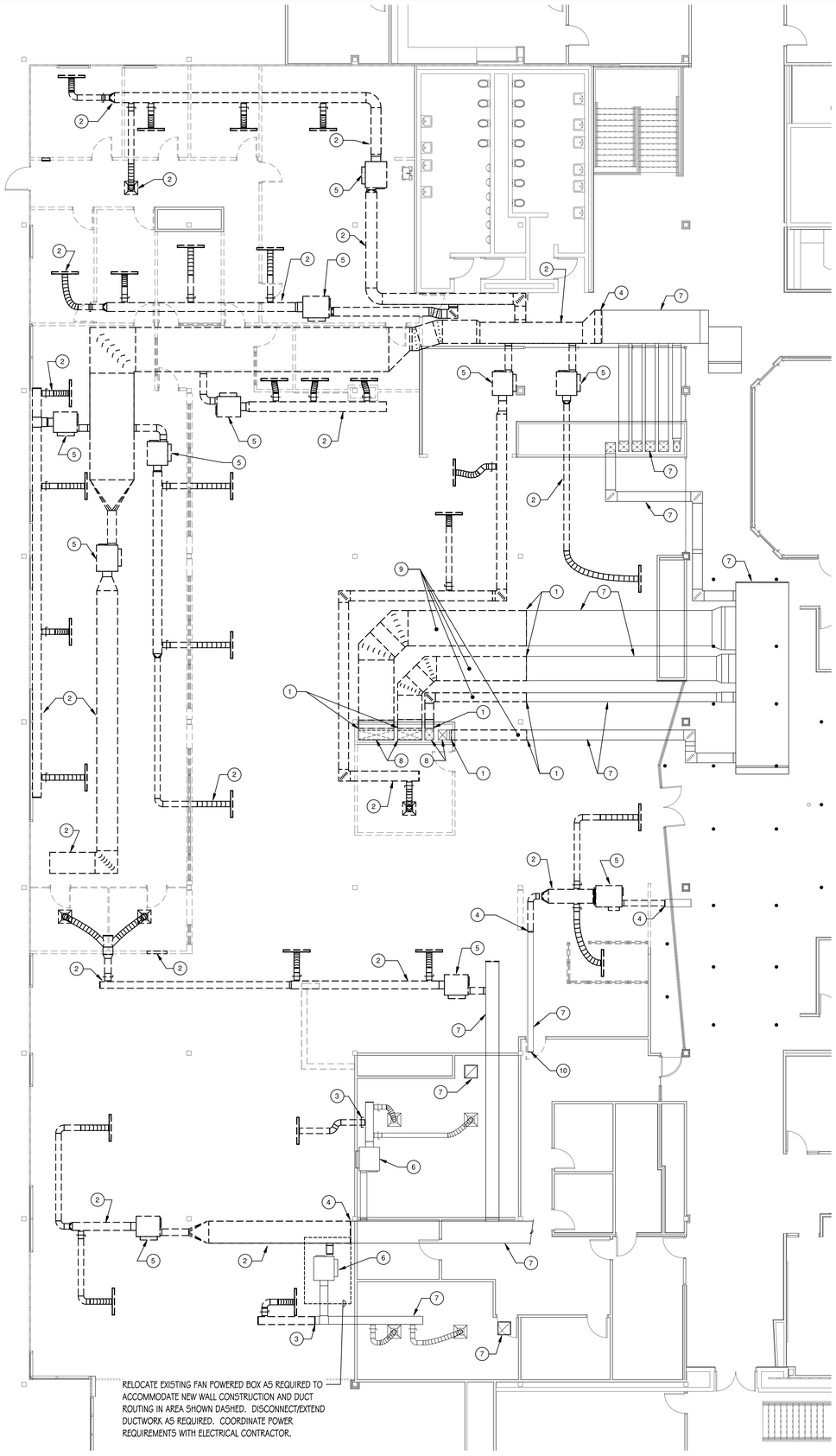
SHEET TITLE:

IT/SERVER ROOM HVAC DEMOLITION PLANS

SHEET NUMBER:

HVD1.12

NAME: I550AC25 HVD1.12.DWG BY: JEC DATE: Oct. 16, 24 TIME: 11:22 AM



1 LEVEL 2 LIBRARY DEMOLITION HVAC VENTILATION PLAN
1/8" = 1'-0"

DRAWING NOTES

1. NEW CONNECTION TO BE MADE AT THIS LOCATION. REMOVE EXISTING FIBERGLASS DUCTWORK SHOWN DASHED. EXISTING LINED GALVANIZED DUCTWORK TO REMAIN AND BE RE-USED. MODIFY AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW DUCTWORK SAME SIZE AS EXISTING.
2. REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED.
3. CAP EXISTING DUCT AT LOCATION SHOWN AND REMOVE ALL DUCTWORK, REGISTERS, DIFFUSERS, HANGERS, INSULATION, ETC. SHOWN DASHED BEYOND THIS POINT.
4. NEW CONNECTION TO BE MADE AT THIS LOCATION. REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED BEYOND THIS POINT.
5. REMOVE EXISTING FAN POWERED BOX INCLUDING ASSOCIATED HANGERS, DUCTWORK, INSULATION, CONTROLS, TEMPERATURE SENSOR, WIRING, ETC. COORDINATE REMOVAL OF POWER WITH ELECTRICAL CONTRACTOR. REMOVE EXISTING HWS/R PIPING BACK TO MAIN AND VALVE/CAP.
6. EXISTING HVAC EQUIPMENT TO REMAIN.
7. EXISTING DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES TO REMAIN.
8. EXISTING GALVANIZED DUCTWORK LOCATED WITHIN CHASE TO REMAIN. FIELD VERIFY AND REMOVE FIBERGLASS DUCTWORK SHOWN DASHED. SEE NEW WORK PLANS FOR ADDITIONAL INFORMATION.
9. FIELD MEASURE EXISTING DUCTWORK SIZE. COORDINATE INSTALLATION OF NEW DUCTWORK SAME SIZE AS EXISTING TO REPLACE FIBERGLASS DUCTWORK.
10. VERIFY ROUTING OF DUCTWORK INCLUDING CONNECTED SUPPLY DIFFUSER. MEASURE EXISTING AIRFLOW RATE PRIOR TO SYSTEM MODIFICATIONS OR WORK PERFORMED. COORDINATE BALANCING WITH MEASURED AIRFLOW RATES DURING NEW WORK.

NOTE:

AT AREA OF WORK WHERE EXISTING DUCTWORK IS TO REMAIN, ANY FIBERGLASS DUCTWORK SHALL BE BE REMOVED AND REPLACED WITH INSULATED GALVANIZED SHEET METAL DUCTWORK. CONTRACTOR SHALL FIELD VERIFY EXISTING DUCT SIZES AT LOCATIONS WHERE DUCTWORK IS BEING REPLACED, AHD SHALL PROVIDE REPORT INDICATING ANY SIZE DIFFERENCES COMPARED TO DUCTWORK SIZES INDICATED ON PLANS. NEW DUCT SIZES SHALL NOT BE SMALLER THAN EXISTING SIZES.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
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DKA PROJECT NO: 24-031

KEY PLAN:

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NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LIBRARY HVAC DEMOLITION VENTILATION PLAN

SHEET NUMBER:
HVD1.20

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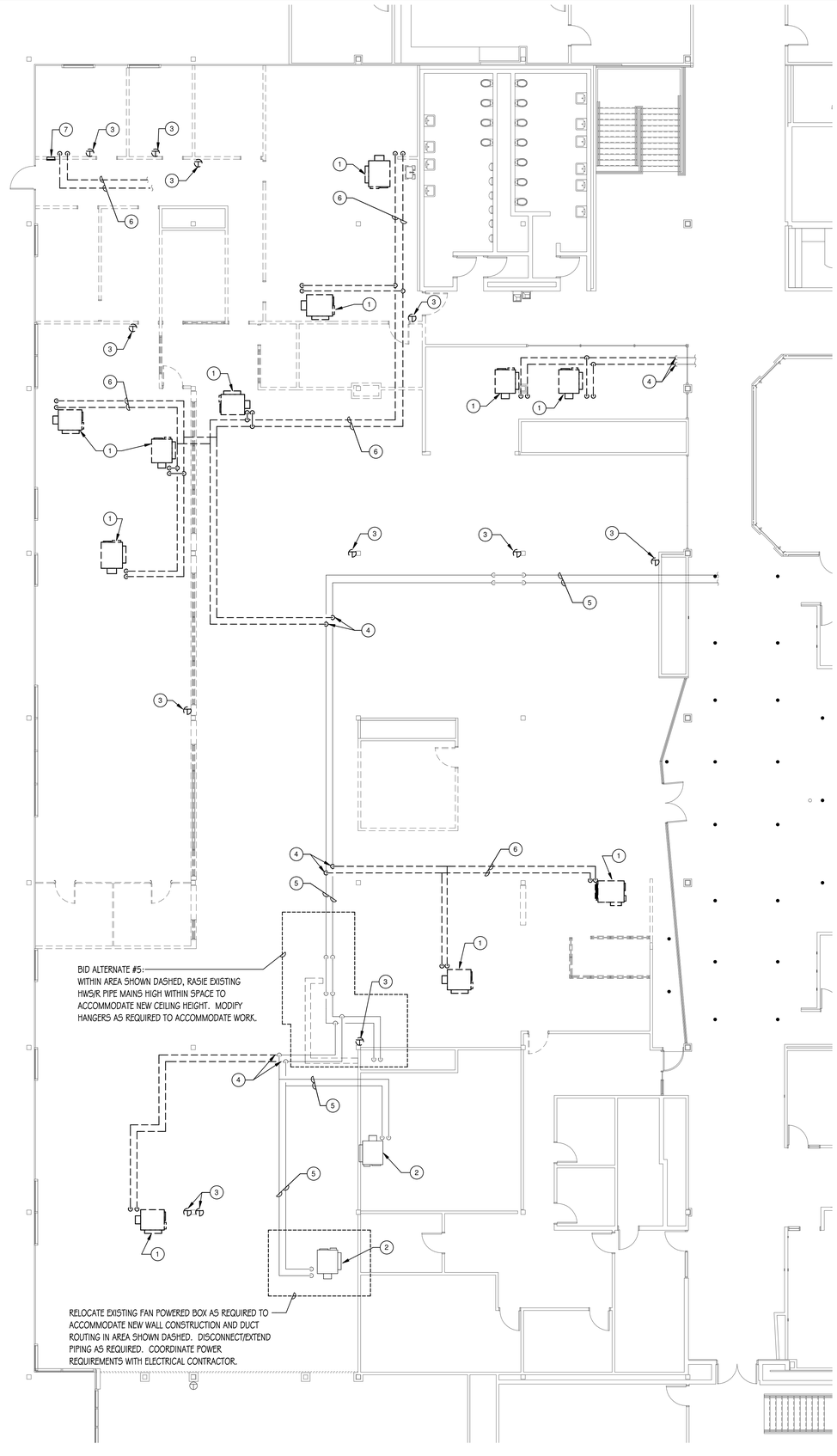

1 LEVEL 2 LIBRARY DEMOLITION HVAC PIPING PLAN
1/8" = 1'-0"

DRAWING NOTES

1. REMOVE EXISTING FAN POWERED BOX INCLUDING ASSOCIATED HANGERS, DUCTWORK, INSULATION, CONTROLS, TEMPERATURE SENSOR, WIRING, ETC. COORDINATE REMOVAL OF POWER WITH ELECTRICAL CONTRACTOR. REMOVE EXISTING HWS/R PIPING BACK TO MAIN AND VALVE/CAP.
2. EXISTING HVAC EQUIPMENT TO REMAIN.
3. REMOVE EXISTING THERMOSTAT INCLUDING ASSOCIATED CONDUIT, WIRING, PNEUMATIC TUBING, ETC. LOCATED ABOVE ANY ACCESSIBLE CEILING BETWEEN THERMOSTAT AND THE UNIT IT CONTROLS. PROVIDE BLANK COVER PLATE OVER ALL ABANDONED JUNCTION BOXES IN WALLS THAT ARE TO REMAIN.
4. CAP EXISTING PIPE AT LOCATION SHOWN AND REMOVE ALL PIPING, VALVING, HANGERS, INSULATION, ETC. SHOWN DASHED BEYOND THIS POINT.
5. EXISTING PIPING AND VALVING TO REMAIN.
6. REMOVE ALL PIPING, VALVING, HANGERS, INSULATION, ETC. SHOWN DASHED.
7. REMOVE EXISTING CABINET UNIT HEATER INCLUDING PIPING BACK TO MAIN, CONTROLS, ASSOCIATED THERMOSTAT, ETC. COORDINATE REMOVAL OF POWER WITH ELECTRICAL CONTRACTOR.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

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DKA PROJECT NO: 24-031

KEY PLAN:

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NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LIBRARY HVAC DEMOLITION PIPING PLAN

SHEET NUMBER:
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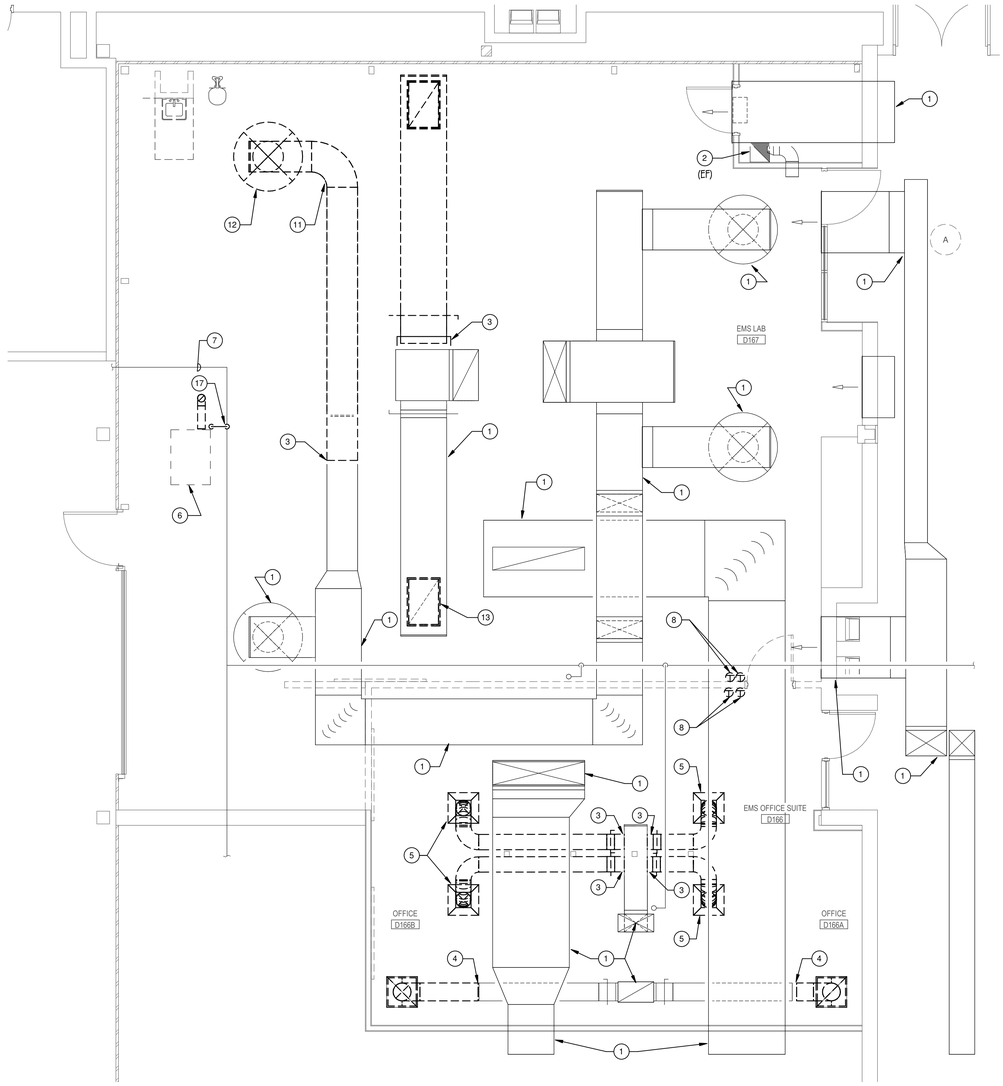
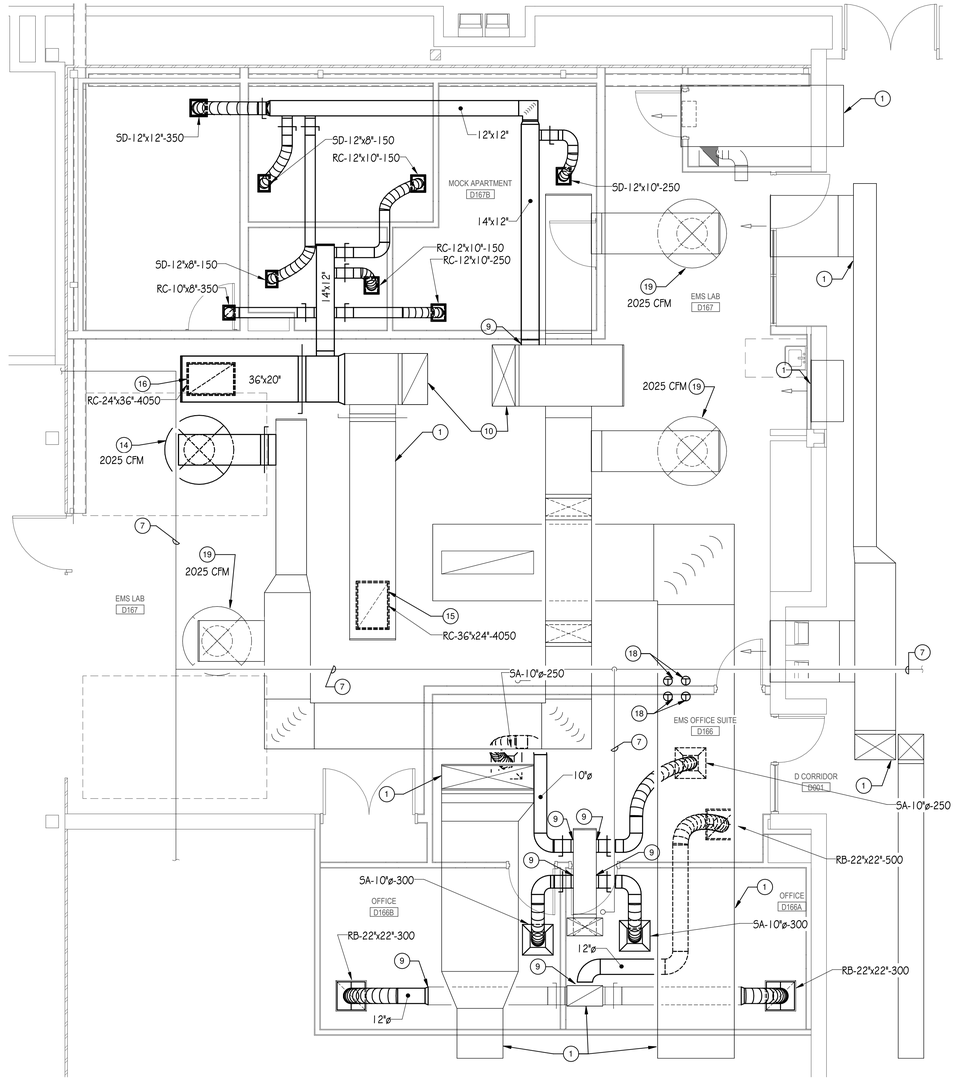
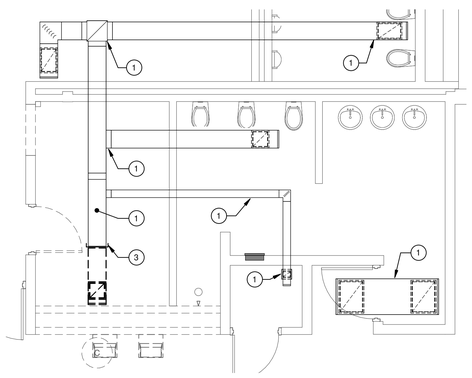


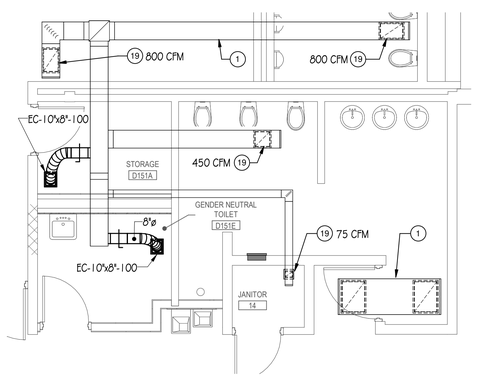
1 HVAC DEMOLITION PLAN - EMS LAB
1/4" = 1'-0"



2 HVAC PLAN - EMS LAB
1/4" = 1'-0"



3 DEMO HVAC PLAN - TOILET ROOM
1/4" = 1'-0"



4 HVAC PLAN - TOILET ROOM
1/4" = 1'-0"

BID ALTERNATE #2:
IF THIS ALTERNATE IS ACCEPTED, REMOVE ALL WORK SHOWN WITHIN THIS DASHED AREA.

DRAWING NOTES

1 EXISTING DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES TO REMAIN.
2 EXISTING HVAC EQUIPMENT TO REMAIN.
3 CAP EXISTING DUCT AT LOCATION SHOWN AND REMOVE ALL DUCTWORK, REGISTERS, DIFFUSERS, HANGERS, INSULATION, ETC. SHOWN DASHED BEYOND THIS POINT.
4 NEW CONNECTION TO BE MADE AT THIS LOCATION. REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED BEYOND THIS POINT.
5 REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED.
6 REMOVE EXISTING SUSPENDED UNIT HEATER INCLUDING HANGERS AND SUPPORTS, CONTROLS, ASSOCIATED THERMOSTAT, ETC. COORDINATE REMOVAL OF POWER WITH ELECTRICAL CONTRACTOR. CAP FLUE AT UNDERSIDE OF ROOF WITH INSULATED CAP AND SEAL WEATHERTIGHT.
7 EXISTING PIPING AND VALVING TO REMAIN.
8 CAREFULLY REMOVE EXISTING THERMOSTAT INCLUDING ASSOCIATED CONDUIT, WIRING, PNEUMATIC TUBING, ETC. LOCATED ABOVE ANY ACCESSIBLE CEILING BETWEEN THERMOSTAT AND THE UNIT IT CONTROLS. INSTALL AT NEW LOCATION AS INDICATED ON NEW WORK PLANS. PROVIDE BLANK COVER PLATE OVER ALL ABANDONED JUNCTION BOXES IN WALLS THAT ARE TO REMAIN.
9 MAKE NEW CONNECTION TO EXISTING DUCTWORK AT THIS LOCATION.
10 EXISTING SUPPLY AND RETURN DUCTWORK ROUTED UP THRU ROOF TO MECHANICAL EQUIPMENT TO REMAIN. INSPECT EXISTING MECHANICAL EQUIPMENT FOR PROPER OPERATION AND PROVIDE REPORT TO ENGINEER/OWNER ANY DEFICIENCIES IDENTIFIED. BALANCE EQUIPMENT TO PROVIDE 9,000 CFM. CLEAN EXISTING COILS AND PROVIDE NEW FILTERS.
11 REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED AND CAP ANY UNUSED OPENING AT MAIN.
12 CAREFULLY REMOVE EXISTING ROUND SUPPLY DIFFUSER. CLEAN AND INSTALL AT NEW LOCATION AS INDICATED ON NEW WORK PLAN.
13 REMOVE EXISTING RETURN GRILLE AT UNDERSIDE OF DUCTWORK. FIELD MEASURE EXACT DIMENSIONS OF OPENING AND COORDINATE WITH NEW GRILLE TO BE INSTALLED AT THIS LOCATION. SEE NEW WORK PLANS FOR ADDITIONAL INFORMATION.
14 NEW LOCATION OF EXISTING SUPPLY DIFFUSER. EXTEND BRANCH DUCTWORK SAME SIZE AS EXISTING TO LOCATION INDICATED. BALANCE TO AIRFLOW RATE INDICATED.
15 NEW RETURN GRILLE LOCATED IN EXISTING DUCT OPENING, WHERE PRIOR WAS REMOVED. COORDINATE EXACT DIMENSIONS OF GRILLE TO MATCH EXISTING.
16 NEW RETURN GRILLE LOCATED AT UNDERSIDE OF NEW RETURN DUCTWORK. COORDINATE EXACT DIMENSIONS OF GRILLE TO MATCH EXISTING SIZE.
17 VALVE/CAP GAS PIPING AT MAIN AND REMOVE GAS PIPING SHOWN DASHED ROUTED TO SUSPENDED GAS HEATER.
18 NEW LOCATION OF EXISTING THERMOSTAT/TEMPERATURE SENSOR. MODIFY/EXTEND CONDUIT, WIRING, PNEUMATIC TUBING, ETC. BETWEEN THERMOSTAT AND THE UNIT IT CONTROLS. COORDINATE EXACT LOCATION WITH ARCHITECT AND WITH ALL OTHER TRADES.
19 BALANCE EXISTING DIFFUSER, REGISTER, OR GRILLE TO AIRFLOW RATE AS INDICATED.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

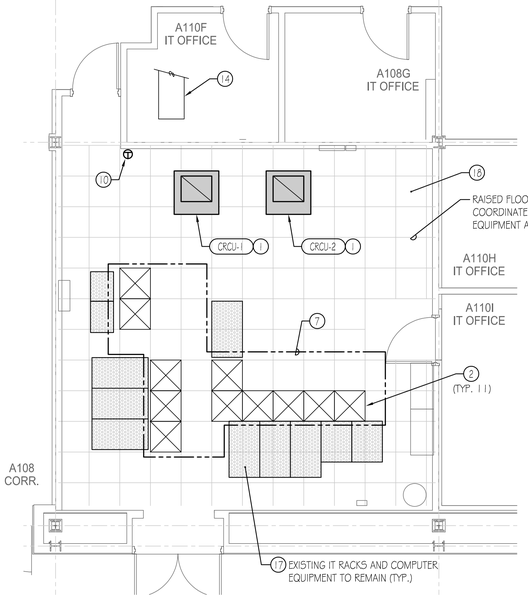
SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
EMS LAB AND TOILET ROOM HVAC PLANS

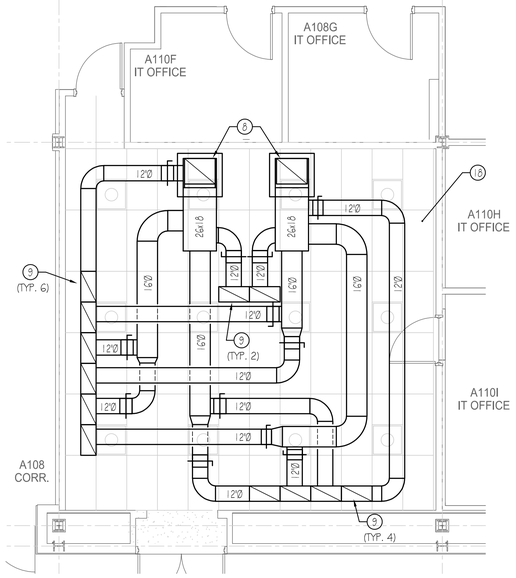
SHEET NUMBER:
HV1.11

10/16/2024 11:17:43 AM



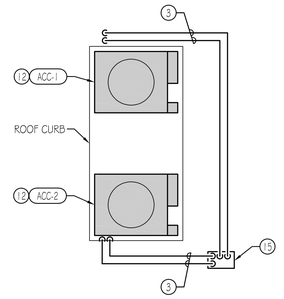
2 LOWER LEVEL - HVAC PLAN - FLOOR LEVEL VENTILATION
1/4" = 1'-0"

TRUE NORTH



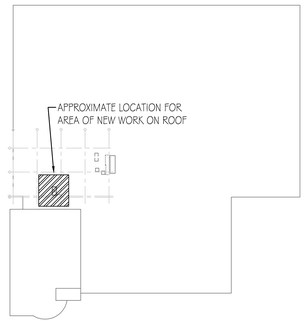
5 LOWER LEVEL - HVAC PLAN - RETURN DUCTWORK
1/4" = 1'-0"

TRUE NORTH



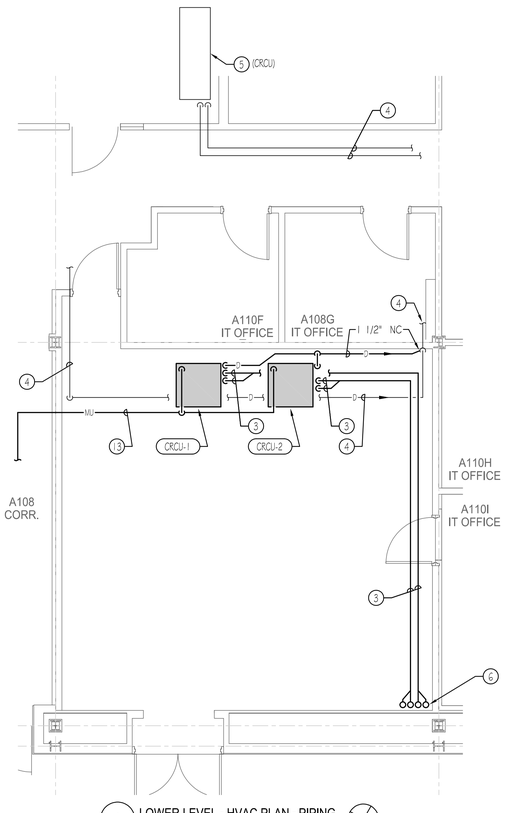
3 ROOF LEVEL - HVAC PLAN
1/4" = 1'-0"

TRUE NORTH



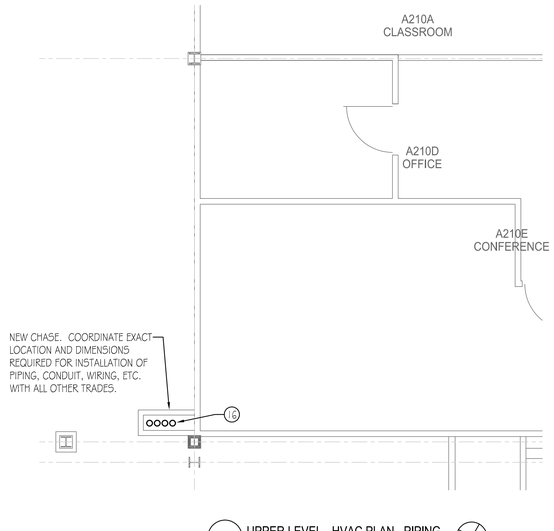
4 OVERALL ROOF PLAN
NO SCALE

TRUE NORTH



1 LOWER LEVEL - HVAC PLAN - PIPING
1/4" = 1'-0"

TRUE NORTH



6 UPPER LEVEL - HVAC PLAN - PIPING
1/4" = 1'-0"

TRUE NORTH

DRAWING NOTES: (TYPICAL FOR THIS DRAWING ONLY)

1. COORDINATE SUPPLY OPENING AT BOTTOM OF UNIT TO LINE UP WITH NEW FLOORING OPENING TO SUPPLY PLENUM. COORDINATE MODIFICATIONS OF RAISED FLOOR AND SUPPORTS/PANELS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW UNIT, INCLUDING UNDERFLOOR PLENUM PANELS FOR SUPPLY AIRFLOW PATH BENEATH UNIT. COORDINATE LOCATION OF DUCT SMOKE DETECTORS IN RETURN, TEMPERATURE SENSORS AND EQUIPMENT CONTROL PANELS WITH ALL TRADES. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
2. EXISTING FLOOR SUPPLY DIFFUSER TO REMAIN. BALANCE SUPPLY GRILLE TO 330 CFM WITH ONE CRCU OPERATING, AND 660 CFM WITH BOTH CRCU OPERATING.
3. ROUTE REFRIGERANT SUCTION AND LIQUID PIPING AS INDICATED. COORDINATE PIPING SIZES, INSULATION, PITCH AND QUANTITY WITH MANUFACTURERS RECOMMENDATIONS.
4. EXISTING PIPING AND VALVING TO REMAIN.
5. EXISTING HVAC EQUIPMENT TO REMAIN.
6. ROUTE REFRIGERANT PIPING UP TO WITHIN CHASE ON FLOOR ABOVE. SEE PLAN 6 THIS SHEET FOR CONTINUATION.
7. COLD AISLE CONTAINMENT SYSTEM SHOWN DASHED. PROVIDE AND INSTALL SUBZERO ENGINEERING ESSENTIAL SERIES RACK HAT WITH CLEAR VINYL CONTAINMENT SYSTEM (OR EQUIVALENT RLE TECHNOLOGIES (800-518-1519), OR EQUAL ONLY AS APPROVED BY ENGINEER). CONTAINMENT SYSTEM SHALL BE COMPLETE WITH ALL COMPONENTS INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. TRACK KIT SHALL BE INSTALLED AT CEILING AND BE COMPLETE WITH MODULAR RAIL SYSTEM, CEILING CLIPS WITH 135°F FUSIBLE LINK, AND ATTACHED VINYL FIRE RATED CURTAIN CONTAINMENT SYSTEM. COORDINATE TRACK SYSTEM AND VINYL CURTAINS WITH ALL FIELD CONDITIONS INCLUDING EXISTING EQUIPMENT LOCATIONS AND DIMENSIONS, CABLES, CABLE TRAYS, CONDUITS, PERSONNEL OPENING LOCATIONS, ETC. PRIOR TO ORDERING. VINYL SHEETS SHALL BE OVERLAPPED TO MAINTAIN PROPER AIR CONTAINMENT FOR THE COLD AISLE. EXCESS VINYL SHALL BE ROLLED UP AND CLIPPED FOR PROPER HANGING. VINYL SHALL BE MODIFIED TO WORK AROUND EXISTING EQUIPMENT, CABLING, CABLE TRAYS, CONDUITS, AND ANY OTHER FIELD CONDITIONS. VINYL SHEETS SHALL BE INSTALLED AROUND ANY OBSTRUCTIONS AND CUT/SEALED AS REQUIRED. VINYL BENEATH OBSTRUCTIONS SHALL BE RE-JOINED TOGETHER WITH TWO-SIDED TAPE OR VELCRO PER MANUFACTURER'S INSTALLATION RECOMMENDATIONS. SPLICES SHALL BE LOCATED AS TO NOT OBSTRUCT MAINTENANCE OF LIGHT FIXTURES. COORDINATE LOCATION AND INSTALLATION OF VINYL CONTAINMENT SYSTEM WITH THE EXISTING FM200 FIRE SUPPRESSION SYSTEM. COORDINATE MODIFICATIONS INCLUDING RELOCATING AND ADDING FIRE PROTECTION HEADS AND SENSORS AS REQUIRED TO MAINTAIN PROPER OPERATION OF THE FIRE SUPPRESSION SYSTEM WITH ALL TRADES.
8. LIEBERT FACTORY RETURN AIR PLENUM WITH FILTER RACK AND EXTENSION TO ABOVE CEILING. SEAL PLENUM AND ROUTE RETURN DUCTWORK CONNECTED ABOVE CEILING AS INDICATED. FIELD COORDINATE EXACT RETURN DUCTWORK LOCATIONS WITH ALL EXISTING FIELD CONDITIONS. COORDINATE INSTALLATION OF PLENUM AND FILTER RACK SO THAT FILTERS ARE EASILY ACCESSIBLE AND HAS TOOL-LESS ACCESS FOR FILTER REPLACEMENT.
9. NEW TITUS 50F EGGCRATE RELIEF GRILLE, 12"x24" LAY-IN FACE, 10"x22" NECK IN CEILING, LOCATED BEHIND SERVER RACKS/EQUIPMENT. BALANCE TO 600 CFM. FIELD COORDINATE EXACT LOCATION IN NEW CEILING, WITH EQUIPMENT, AND WITH ARCHITECT.
10. NEW TEMPERATURE SENSOR TO BE TIED INTO EXISTING BAS SYSTEM. TEMPERATURE SYSTEM SHALL BE READ BY EXISTING BAS AND SHALL SEND AN ALARM WHENEVER TEMPERATURE IS ABOVE SETPOINT (ADJUSTABLE).
11. ROUTE REFRIGERANT PIPING, CONDUITS, WIRING, ETC. DOWN THRU NEW PIPE CURB AND OFFSET TO WITHIN CHASE ON FLOOR BELOW.
12. INSTALL NEW EQUIPMENT ON NEW ROOF CURB. EXTEND CURB TO BE MINIMUM 4' BEYOND EQUIPMENT FOOTPRINT. COORDINATE REQUIREMENTS AND WEIGHTS WITH ALL TRADES. MAINTAIN MANUFACTURER'S RECOMMENDED EQUIPMENT CLEARANCES.
13. ROUTE DOMESTIC WATER PIPING FROM PIPING SERVING HOSE BIBS (ADJACENT TO TOILET AREAS IN CORRIDOR LOCATED APPROXIMATELY 50' AWAY) TO NEW EQUIPMENT INDICATED. CONNECT TO EACH NEW MECHANICAL UNIT PER MANUFACTURER'S REQUIREMENTS. COORDINATE ROUTING AND REQUIREMENTS WITH ALL OTHER TRADES.
14. EXISTING DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES TO REMAIN.
15. NEW PIPE CURB ON ROOF. ROUTE NEW REFRIGERANT PIPING, CONDUIT, WIRING, ETC THRU NEW CURB. COORDINATE LOCATION WITH ALL OTHER TRADES.
16. ROUTE PIPING FROM FLOOR BELOW UP TO WITHIN CHASE. OFFSET PIPING WITHIN CEILING AREA AS REQUIRED TO ROUTE PIPING UP THRU PIPE CURB ON ROOF. SEE PLANS 1 AND 3 THIS SHEET FOR CONTINUATION.
17. COORDINATE WITH OWNER AND IT STAFF, ADDITION OF SUBZERO ENGINEERING (OR EQUIVALENT RLE TECHNOLOGIES, OR EQUAL ONLY AS APPROVED BY ENGINEER) BLANKING PANELS TO BE LOCATED WITHIN IN SERVER RACKS TO MAINTAIN PROPER AIR PATHWAYS. CONTRACTOR SHALL COORDINATE LOCATION, SIZES, COLOR AND QUANTITY OF PANELS AS REQUIRED. INSTALLATION OF PANELS WITHIN EXISTING SERVER RACKS SHALL BE COORDINATED WITH OWNER.
18. COORDINATE ALL WORK TO BE PERFORMED IN THIS AREA WITH THE EXISTING FM200 FIRE SUPPRESSION SYSTEM INCLUDING PIPING, SENSOR AND HEAD LOCATIONS. CONTACT PEDRO CLAVERO AT CINTAS CORPORATION (630-978-0600, CLAVEROP@CINTAS.COM) AND COORDINATE FIRE SUPPRESSION SYSTEM MODIFICATIONS INCLUDING REVISING SYSTEM FOR PIPING, HEAD, AND SENSOR REQUIREMENTS. COORDINATE RETURN GRILLE LOCATIONS AND COLD AISLE CONTAINMENT SYSTEM CURTAINS AND LOCATIONS.

BID ALTERNATE #3:
IF THIS ALTERNATE IS ACCEPTED, DO NOT PERFORM ANY WORK SHOWN WITHIN THIS DASHED AREA.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

SHEET STATUS: 10/17/2024

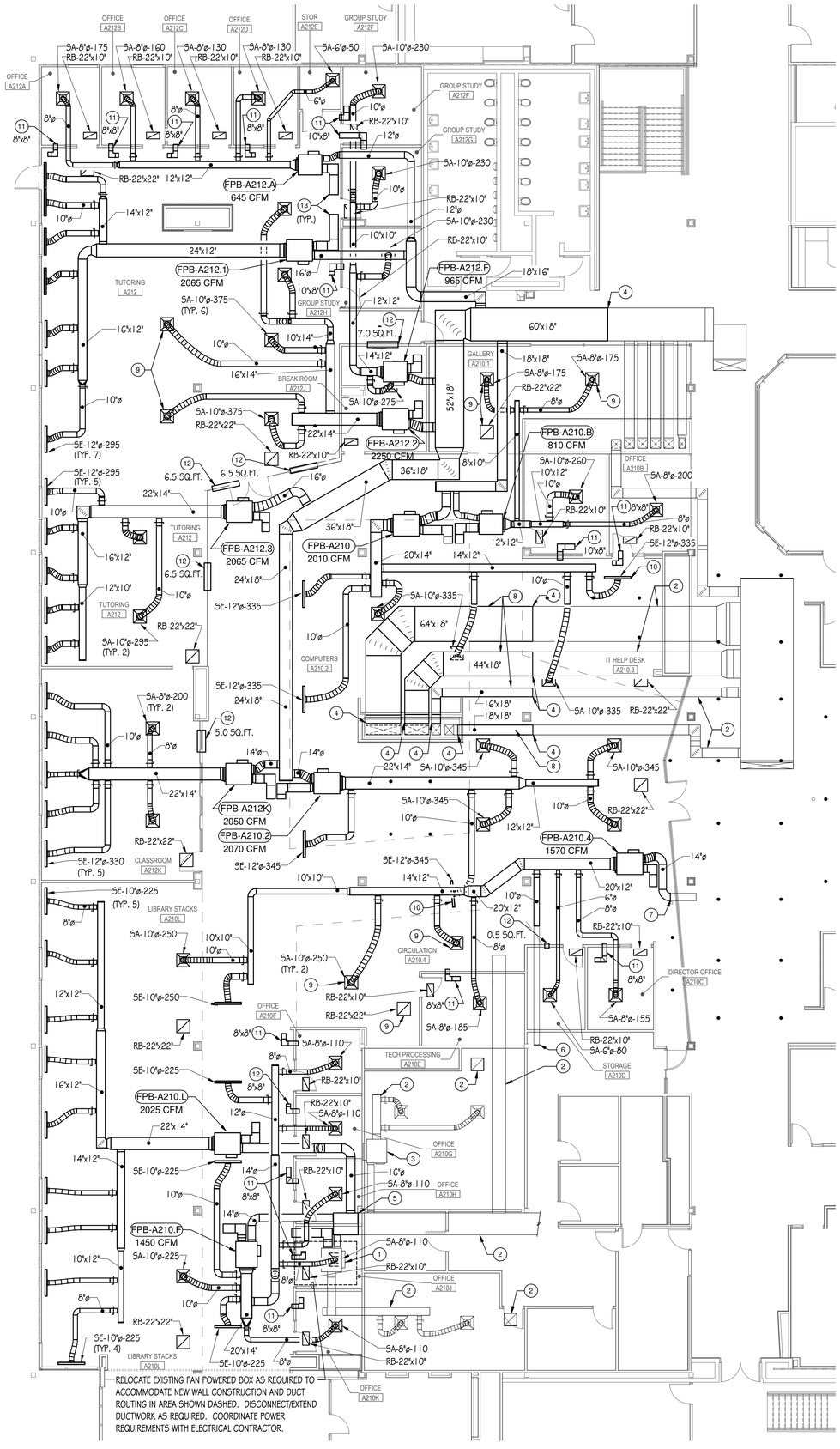
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
IT/SERVER ROOM HVAC PLANS

SHEET NUMBER:
HV1.12

NAME: I:\50\A25 HV\12.DWG BY: JEC DATE: Oct. 16, 24 TIME: 11:22 AM



1 LEVEL 2 LIBRARY HVAC VENTILATION PLAN
1/8" = 1'-0"

DRAWING NOTES

1. RELOCATE EXISTING FAN POWERED BOX TO ACCOMMODATE CONSTRUCTION OF NEW WALLS AND DUCTWORK WITHIN THIS AREA. MODIFY/EXTEND DUCTWORK AS REQUIRED. INSTALL NEW LINED DUCTWORK CONNECTED TO FAN POWERED BOX AIR INLET AND EXTEND OUTSIDE ROOM AS INDICATED. CONNECT NEW ROUND MEDIUM PRESSURE DUCTWORK SAME SIZE AS BOX INLET, TO SUPPLY DUCTWORK.
2. EXISTING DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES TO REMAIN.
3. EXISTING HVAC EQUIPMENT TO REMAIN.
4. MAKE NEW CONNECTION TO EXISTING DUCTWORK AT THIS LOCATION.
5. EXTEND DUCTWORK SAME SIZE AS EXISTING AS INDICATED. COORDINATE CONSTRUCTION OF NEW WALL AROUND NEW DUCTWORK.
6. BALANCE EXISTING DIFFUSER/REGISTER/GRILLE CONNECTED TO EXISTING SUPPLY BRANCH TO 150 CFM.
7. MAKE NEW CONNECTION TO EXISTING SUPPLY DUCTWORK AT THIS LOCATION. PROVIDE TRANSITION TO ASSOCIATED FAN POWERED BOX INLET SIZE AND CONNECT TO BOX.
8. EXTEND NEW DUCTWORK SAME SIZE AS EXISTING WITHIN SPACE. COORDINATE EXACT ROUTING AND OFFSETS AS REQUIRED.
9. DIFFUSER, REGISTER, OR GRILLE TO HAVE BLACK FINISH TO MATCH SAT CEILING. COORDINATE COLOR AND FINISH WITH ARCHITECT.
10. DIFFUSER, REGISTER, OR GRILLE TO BE PRIMED AND FIELD PAINTED TO MATCH ADJACENT CEILING. COORDINATE COLOR AND FINISH WITH ARCHITECT. EXACT INSTALLATION LOCATION TO BE COORDINATED WITH ARCHITECT.
11. PROVIDE TRANSFER DUCTWORK WITH LINED DUCTWORK ABOVE CEILING OF SIZE INDICATED.
12. PROVIDE TRANSFER OPENING ABOVE CEILING WITH MINIMUM SQUARE FEET OF OPENING INDICATED.
13. COORDINATE LOCATION OF FILTERS FOR FAN POWERED BOX INLETS TO MAINTAIN SERVICE CLEARANCES. SEE DETAIL ELSEWHERE. (TYPICAL FOR ALL FAN POWERED BOXES).

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

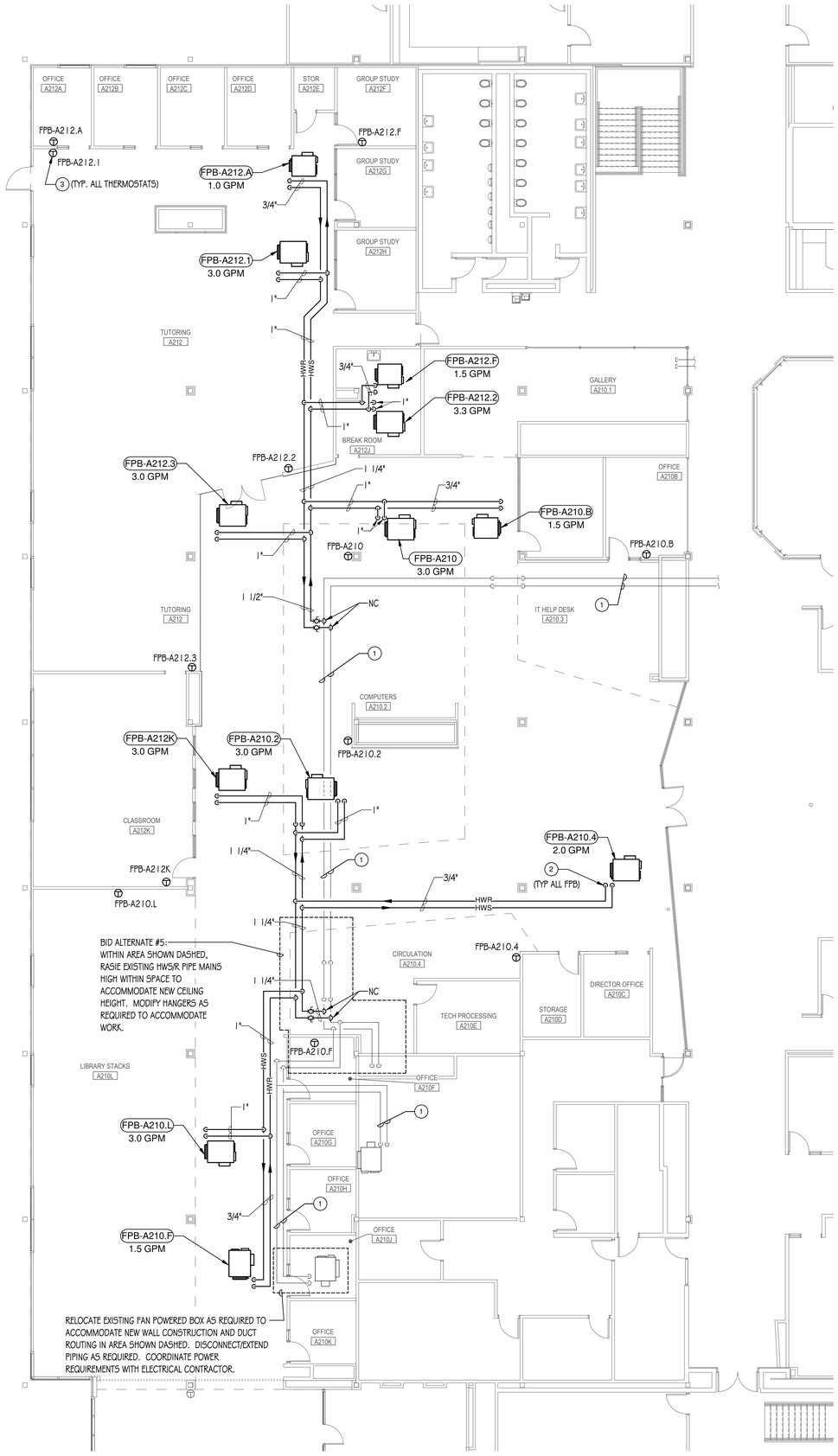
SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LIBRARY HVAC VENTILATION PLAN

SHEET NUMBER:
HV1.20

10/16/2024 11:17:46 AM



1 LEVEL 2 LIBRARY HVAC PIPING PLAN
1/8" = 1'-0"

DRAWING NOTES

1. EXISTING PIPING AND VALVING TO REMAIN.
2. COORDINATE FAN POWERED BOX VALVING ON HOT WATER SUPPLY AND RETURN PIPING MATCHING EXISTING CONFIGURATION. SEE FAN POWERED BOX PIPING DETAIL ELSEWHERE.
3. COORDINATE EXACT TEMPERATURE SENSOR LOCATION WITH ARCHITECT AND WITH ALL OTHER TRADES.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LIBRARY HVAC PIPING PLAN

SHEET NUMBER:
HV1.21

10/16/2024 11:17:47 AM

HVAC SYMBOLS AND ABBREVIATIONS

ACCU	AIR COOLED CONDENSING UNIT	GC	GENERAL CONTRACTOR
AD	ACCESS DOOR	GPM	GALLONS PER MINUTE
A.F.F.	ABOVE FINISHED FLOOR	HE	HEAT EXCHANGER
AHU	AIR HANDLING UNIT	HP	HORSEPOWER
AP	ACCESS PANEL	HWC	HOT WATER COIL
BAS	BUILDING AUTOMATION SYSTEM	HWR	HOT WATER RETURN
BHP	BRAKE HORSEPOWER	HWS	HOT WATER SUPPLY
BOP	BOTTOM OF PIPE	LAT	LEAVING AIR TEMPERATURE
BTU	BRITISH THERMAL UNIT	LWT	LEAVING WATER TEMPERATURE
BTUH	BRITISH THERMAL UNIT PER HOUR	MCA	MINIMUM CIRCUIT AMPS
CFM	CUBIC FEET PER MINUTE	MOCP	MAXIMUM OVERCURRENT PROTECTION
CU	CONDENSING UNIT	MOD	MOTOR OPERATED DAMPER
CUH	CABINET UNIT HEATER	NC	NEW CONNECTION
CV	CONVECTOR	NK	NECK
D	DRAIN LINE	N.I.C.	NOT IN CONTRACT
DB	DRY BULB	PD	PRESSURE DROP
DG	DOOR GRILLE	PH	PHASE
DN.	DOWN	PSI	POUNDS PER SQUARE INCH
DS	DUCT SILENCER	RPM	REVOLUTIONS PER MINUTE
DSD	DUCT SMOKE DETECTOR	RTU	ROOFTOP UNIT
EAT	ENTERING AIR TEMPERATURE	SP	STATIC PRESSURE
EF	EXHAUST FAN	SUH	SUSPENDED UNIT HEATER
EFT	ELECTRIC FINNED TUBE	TC	TEMPERATURE CONTROL
ESP	EXTERNAL STATIC PRESSURE	TSP	TOTAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE	TYP.	TYPICAL
F	FAHRENHEIT	UC	UNDERCUT DOOR
FD	FLOOR DRAIN	VAV	VARIABLE AIR VOLUME BOX
FID	FIRE DAMPER	VD	VOLUME DAMPER
FPB	SERIES FAN POWERED BOX	VFD	VARIABLE FREQUENCY DRIVE
FPB	PARALLEL FAN POWERED BOX	WB	WET BULB
FPF	FINS PER FOOT	W.C.	WATER COLUMN
FPM	FEET PER MINUTE	WL	WALL LOUVER
FTR	FINNED TUBE RADIATION		
G	GAS PIPING		

HWS — HOT WATER SUPPLY
HWR — HOT WATER RETURN
CA — COMPRESSED AIR (NON-MEDICAL)
G — NATURAL GAS
RS — REFRIGERANT SUCTION
RL — REFRIGERANT LIQUID
D — DRAIN LINE
BALL VALVE (2" ø SMALLER)
BUTTERFLY VALVE (2 1/2" ø LARGER)
DIRECTION OF FLOW
PITCH OF PIPE (DOWN)
PIPE ELBOW (TURNED UP)
PIPE ELBOW (TURNED DOWN)
PIPE TEE DOWN (DROP)
PIPE TEE UP
PIPE TEE UP OR ANGLE
PIPE TEE DOWN OR ANGLE
NEW CONNECTION
GAS PRESSURE REGULATOR
FLEXIBLE DUCT CONNECTION
MANUAL SINGLE BLADE OR OPPOSED BLADE DAMPER
MOTOR OPERATED DAMPER
VERTICAL FIRE DAMPER WITH ACCESS DOOR
AIR FLOW

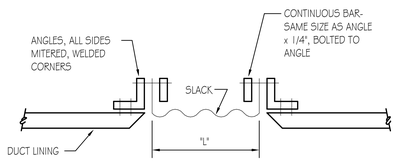
12x24 — DUCT SIZE FREE AREA (1ST FIGURE, SIDE OF DUCT SHOWN)
CROSS-SECTION OF SUPPLY OR OUTSIDE AIR INTAKE DUCT
CROSS-SECTION OF RETURN OR EXHAUST DUCT
INCLINED RISE (R) OR DROP (D)
90° ELBOW WITH TURNING VANES
90° BRANCH TAKE-OFF W/45 DEGREE ENTRY
ROUND FLEXIBLE DUCT
SQUARE OR RECTANGLE DUCT TRANSITION
SQUARE OR RECTANGLE TO ROUND DUCT TRANSITION
DUCT UP TO ROOF MOUNTED EXHAUST FAN OR VENTILATOR
XXX-1 — EQUIPMENT TAG
WALL THERMOSTAT OR TEMPERATURE SENSOR
WALL THERMOSTAT OR TEMPERATURE SENSOR WITH GUARD
WALL HUMIDISTAT
CO_2 — WALL CARBON DIOXIDE SENSOR
ø — ROUND
DSD — DUCT SMOKE DETECTOR
CO_2 — DUCT CARBON DIOXIDE SENSOR

BIDDING NOTE:
SEE DRAWING ME1.00 FOR GENERAL NOTES AND ADDITIONAL DETAILS APPLICABLE TO THIS TRADE'S WORK.

GENERAL NOTES - HVAC WORK:

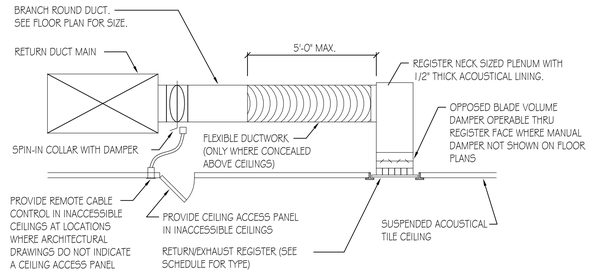
1. ALL NEW WORK AND MATERIALS SHALL CONFORM TO CRYSTAL LAKE CODE AND BUILDING STANDARDS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND INSPECTIONS AND PAYING THEIR ASSOCIATED FEES.
3. NOISE AND VIBRATION WILL NOT BE TOLERATED. CONTRACTOR SHALL BID ON FURNISHING EVERY DETAIL TO ASSURE THIS END.
4. PATCH AND REFINISH ALL DAMAGED INSULATED SURFACES OF ALL EXISTING DUCTWORK, PIPING AND ASSOCIATED FITTINGS TO MATCH EXISTING WHERE NEW CONNECTIONS ARE BEING MADE.
5. CONTRACTORS SHALL PROVIDE A ONE YEAR WARRANTY ON ALL MATERIALS, EQUIPMENT AND LABOR FROM DATE OF SUBSTANTIAL COMPLETION OF WORK.
6. CONTRACTORS SHALL PROVIDE IN WARRANTY LABOR AND MANUFACTURER WILL PROVIDE IN WARRANTY PARTS FOR EQUIPMENT WHICH HAS BEEN PRE-PURCHASED BY THE OWNER. CONTRACTOR SHALL RECEIVE THIS EQUIPMENT FROM THE OWNER AT THE PROJECT SITE OR OTHER COORDINATED LOCATION, AND THE CONTRACTOR SHALL COMPLETE REQUIRED ASSEMBLY WORK AND PROVIDE LABOR AND PROPER INSTALLATION.
7. THE LOCATIONS SHOWN FOR ALL DIFFUSERS, REGISTERS AND GRILLES, ETC. ARE DIAGRAMMATIC. EXACT LOCATION SHALL BE DETERMINED FROM THE REFLECTED CEILING PLANS AND/OR ON THE JOB SITE BY THE ARCHITECT/ENGINEER REPRESENTATIVES.
8. EXCEPT AS NOTED OTHERWISE, ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE GALVANIZED SHEET METAL WITH SEALED JOINTS CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH CURRENT SMACNA MANUAL. SIZES SHOWN ARE INSIDE FACE TO INSIDE FACE.
9. ROUND EXPOSED SUPPLY OR RETURN DUCTWORK SHALL BE SINGLE WALL SPIRAL GALVANIZED.
10. THE GAUGES OF IRON FOR DUCTS AND CASINGS AND SIZE OF STRUCTURAL REINFORCING ANGLES FOR DUCTS AND CASING SHALL BE SUCH AS TO PROVIDE ABSOLUTELY AIR TIGHT CONSTRUCTION FREE FROM PULSATION, DEFORMATION, OR VIBRATION AT NORMAL OPERATING PRESSURES.
11. ALL NEW CONCEALED SUPPLY DUCTWORK OUTSIDE OF MECHANICAL ROOM ASHALL BE EXTERNALLY INSULATED WITH MINIMUM 1 1/2" THICK WITH FLEXIBLE FIBERGLASS INSULATION WITH VAPOR BARRIER JACKET.
12. ALL ROUND CONCEALED FLEXIBLE DUCT SHALL BE WIREMOLD OR THERMOFLEX FACTORY INSULATED 1" THICK MAXIMUM OF 5'-0" LONG TO DIFFUSERS/REGISTERS, MAXIMUM OF 3'-0" LONG TO VAV OR FAN POWERED BOXES. FLEXIBLE DUCT MAY BE UTILIZED ONLY WHERE CONCEALED ABOVE ACCESSIBLE CEILINGS.
13. ALL NEW RECTANGULAR RETURN AND TRANSFER DUCTWORK SHALL BE INTERNALLY LINED MINIMUM 1" THICK WITH MATT FACED FIBERGLASS DUCT LINER.
14. PROVIDE MANUAL VOLUME DAMPERS AT EACH BRANCH DUCT TAKEOFF IN SUPPLY DUCTWORK (DOWNSTREAM OF FPB AND VAV BOXES) AND IN RETURN/EXHAUST DUCTWORK. PROVIDE TURNING VANES IN ALL SQUARE DUCT ELBOWS.
15. FIRE DAMPERS SHALL BE RUSKIN MODEL DIBD WITH BLADE STACK OUTSIDE OF THE AIRSTREAM. PROVIDE DUCT ACCESS DOOR ADJACENT.
16. PAINT ALL INTERIOR DUCTWORK VISIBLE THROUGH AIR INLETS OR OUTLETS FLAT BLACK.
17. CONTRACTOR SHALL PROVIDE NEW FILTERS AND CLEAN CONDENSER COIL FOR EXISTING MECHANICAL EQUIPMENT SERVING AREAS OF WORK WHERE MECHANICAL SYSTEMS ARE MODIFIED.
18. BALANCE DUCT SYSTEMS TO ACCOMPLISH AIR QUANTITIES SHOWN AT ALL INLETS/OUTLETS (NEW AND EXISTING) AS SHOWN ON DRAWING AND SUBMIT TEST REPORT FOR REVIEW BY OWNER AND ENGINEER.
19. HOT WATER HEATING SUPPLY AND RETURN PIPING SHALL BE SCHEDULE 40 BLACK STEEL WITH WELDED OR SCREWED FITTINGS OR TYPE "L" COPPER WITH SOLDERED OR PRESSED FITTINGS, INSULATED WITH 1 1/2" THICK (1 1/4" AND BELOW) OR 2" THICK (1 1/2" AND ABOVE) FIBERGLASS WITH ALL SERVICE JACKET. PROVIDE DIELECTRIC NIPPLES OR BRASS VALVES BETWEEN DISSIMILAR PIPE MATERIALS.
20. ALL MAKE-UP WATER PIPING AND FITTINGS SHALL BE TYPE "L" COPPER, INSULATED WITH MINIMUM 1" THICK FIBERGLASS PIPE INSULATION W/VAPOR BARRIER JACKET.
21. ALL REFRIGERANT PIPING SHALL BE TYPE "K" COPPER WITH WROUGHT COPPER SOLDER FITTINGS. PIPING SHALL BE CIRCUITED, SIZED, AND PITCHED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. INSULATE REFRIGERANT SUCTION AND HOT GAS LINES WITH 3/4" THICK AP/ARMAFLEX. PAINT EXTERIOR INSULATION WITH 2 COATS UV RESISTANT FINISH, COLOR AS SELECTED PER ARCHITECT.
22. DRIP PAN DRAIN PIPING SHALL BE SCHEDULE 40 PVC, OR TYPE "M" COPPER WITH 1/2" INSULATION.
23. PROVIDE MIRO PIPE CURBS ON TOP OF 3/4" RUBBER ROOF GUARD PAD FOR NEW PIPE OR CONDUIT ON ROOF SUPPORT PIPING OR CONDUITS MAXIMUM 6' ON CENTER.
19. NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK AND CONFORM WITH ASTM STANDARDS WELDED FOR PIPE SIZES 2 1/2" AND OVER AND SCREWED FOR PIPE SIZES 2" AND UNDER. WIRE BRUSH CLEAN AND PAINT ALL PIPING AND FITTINGS WITH 2 COATS OF RUST RESISTANT PAINT.
20. ALL PIPING SHALL BE SUSPENDED WITH CLEVIS AND/OR TRAPEZE PIPE HANGERS. INSULATED PIPING SHALL REST ON SHEET METAL INSULATION SHIELDS. (ANCHORS SHALL BE DRILLED INTO EXISTING FLOOR CONSTRUCTION).
21. PITCH ALL SUPPLY AND RETURN WATER LINES TO DRAIN COMPLETELY THROUGH LOWER EQUIPMENT, UNIONS, OR DRAIN VALVES. INSTALL A 1/2" DRAIN VALVE WITH HOSE THREAD OUTLET IN ALL MAIN PIPING RUNS WHICH WOULD NOT BE ABLE TO DRAIN THRU A LOWER PIECE OF EQUIPMENT. PROVIDE MANUAL AIR VENTS IN ALL PIPE DROPS IN DIRECTION OF FLOW.
22. FLUSH, CLEAN, PRESSURE TEST AND CHARGE ALL NEW PIPING SYSTEMS AND EXTENSION TO PIPING SYSTEMS. TESTING SHALL BE MINIMUM 50 PSI HIGHER THAN NORMAL OPERATING PRESSURE OF SYSTEM. CLEANING OF SYSTEM SHALL BE ACCOMPLISHED WITH H-O-H C-312 (OR EQUAL) CHEMICAL SOLUTION MULTIPURPOSE CLEANER UTILIZED IN STRICT ACCORDANCE WITH CHEMICAL TREAM TMENT SUPPLIER'S INSTRUCTION.
23. ALL HYDRONIC SYSTEMS TO BE PROVIDED WITH H-O-H CS-39 (OR EQUAL) CHEMICAL SOLUTION CORROSION INHIBITOR IN CONCENTRATIONS RECOMMENDED BY AND INSTALLED IN STRICT ACCORDANCE WITH CHEMICAL SUPPLIER'S INSTRUCTION.
24. BALL VALVES SHALL BE STOCKHAM, MILWAUKEE, OR NIBCO MSS SP 110, 400 PSI WOG, ONE PIECE BRONZE BODY, CHROME PLATED BRASS BALL, FULL PORT, TEFLON SEATS, BLOW-OUT PROOF STEM, SOLDER ENDS, LEVER HANDLE.
25. PROVIDE GAS SHUT-OFF VALVE AT EACH PIECE OF EQUIPMENT AND PRESSURE REGULATORS WHERE REQUIRED. VENT ALL PRESSURE REGULATORS WITHIN THE BUILDING FULL SIZE TO BUILDING EXTERIOR.
26. BALANCE HOT WATER HEATING SYSTEM TO ACCOMPLISH WATER FLOW SHOWN AT ALL TERMINALS AS SHOWN ON DRAWINGS AND SUBMIT TEST REPORT FOR REVIEW BY OWNER AND ENGINEER.
27. ALL NEW PIPING SHALL BE IDENTIFIED WITH WRAP AROUND PIPE MARKERS. ALL NEW EQUIPMENT SHALL BE IDENTIFIED WITH PLASTIC ENGRAVED NAMEPLATES.
28. ALL TEMPERATURE CONTROL WORK SHALL MATCH EXISTING TRANE TRACER SYSTEM CURRENTLY INSTALLED IN BUILDING.
29. CONTRACTOR SHALL SETUP CRCU EQUIPMENT, INCLUDING INTERCONNECTING EQUIPMENT CONTROLLERS FOR EQUIPMENT COMMUNICATION PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS, INCLUDING NETWORK CONNECTIONS FOR CONNECTING VIA WEBSITE INTERFACE, AND SO THAT UNITS COMMUNICATE WITH EACH OTHER AND PROVIDE ALARMS TO OWNER. CONTRACTOR SHALL INSTALL ALL FIELD-INSTALLED ACCESSORIES AS RECOMMENDED BY EQUIPMENT MANUFACTURER.
30. ALL EQUIPMENT THERMOSTATS SHALL BE PROGRAMMABLE COMPATIBLE WITH ASSOCIATED EQUIPMENT. THERMOSTAT SELECTION SHALL BE MATCHED TO UNIT HEATING/COOLING STAGES.
31. LOW VOLTAGE WIRING SHALL BE U/L LISTED AND PLENUM RATED (LOW SMOKE PRODUCING). WIRING SHALL BE CONCEALED IN WALLS AND MAY BE INSTALLED WITHOUT CONDUIT ABOVE ACCESSIBLE LAY-IN CEILING SPACES ONLY.

NOTE:
FLEXIBLE CONNECTION TO ISOLATE ALL DUCTS FROM ALL FANS AND FAN ENCLOSURES TO PREVENT TRANSMISSION OF VIBRATION TO DUCTWORK AND STRUCTURE.

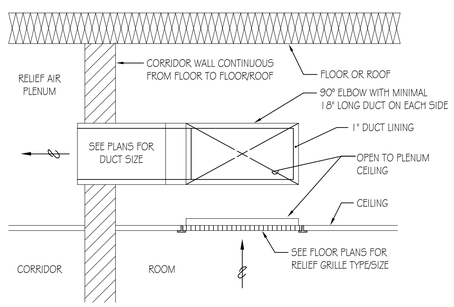


SP OF FAN	MIN. SLACK	MIN. "L"
UP TO 2"	1 1/4"	4"
2 1/8" TO 4"	2"	6"

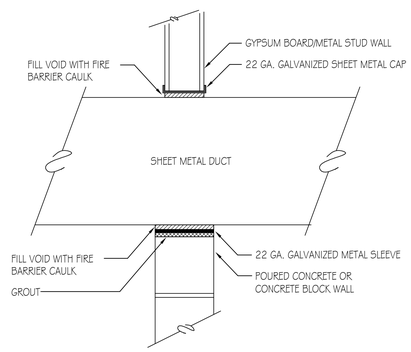
FLEXIBLE CONNECTION
NO SCALE



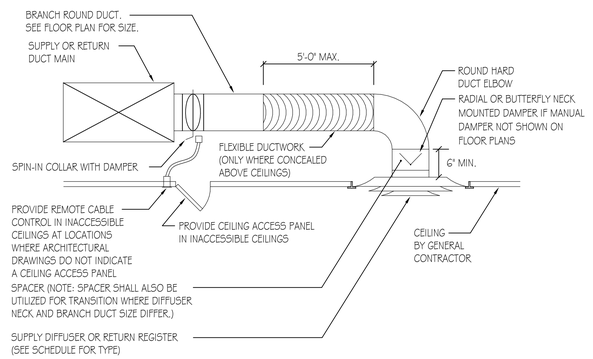
RETURN/EXHAUST REGISTER INSTALLATION DETAIL
NO SCALE



TYPICAL RELIEF REGISTER DETAIL
NO SCALE



DUCT SLEEVE THRU INTERIOR WALL DETAIL
NO SCALE



DIFFUSER/REGISTER INSTALLATION DETAIL
NO SCALE

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2
8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

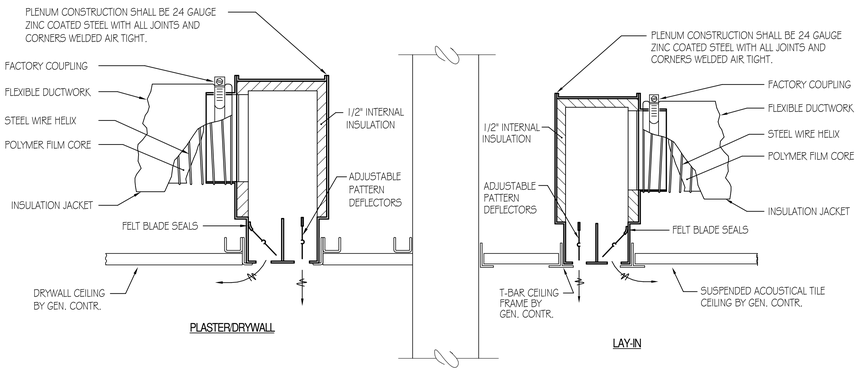
SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
HVAC DETAILS, NOTES, SYMBOLS AND ABBREVIATIONS

SHEET NUMBER:
HV4.00

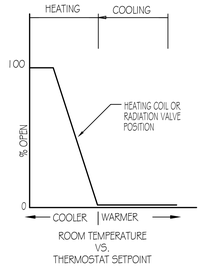
10/16/2024 11:17:47 AM



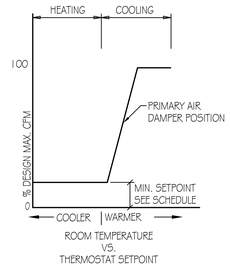
NOTE: WHERE PATTERN DEFLECTOR ADJUSTMENT IS NOT SPECIFIED ON THE DRAWINGS, ADJUST AS FOLLOWS:

1. FOR DIFFUSERS CENTERED IN ROOM, ADJUST SO EQUAL NUMBER OF PATTERN DEFLECTORS DIRECT AIR ACROSS CEILING IN OPPOSITE DIRECTIONS.
2. FOR DIFFUSERS LOCATED NEAR AN INTERIOR WALL, ADJUST ALL PATTERN DEFLECTORS TO DIRECT AIR ACROSS CEILING AWAY FROM PARTITION.
3. FOR DIFFUSERS LOCATED NEAR AN OUTSIDE WALL, ADJUST SO EQUAL NUMBER OF PATTERN DEFLECTORS DIRECT AIR TOWARD FLOOR AND ACROSS CEILING AWAY FROM WALL.

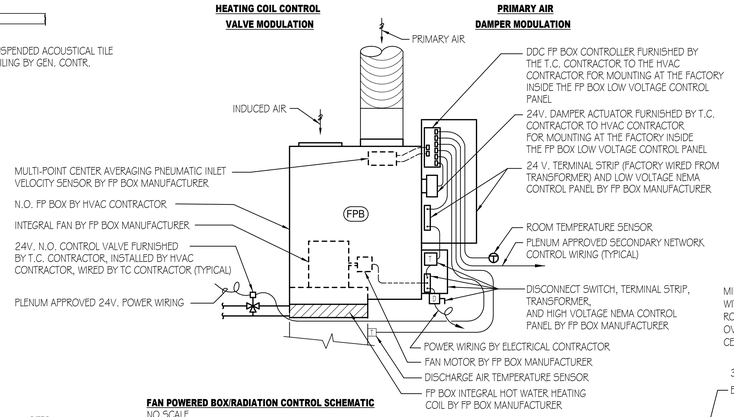
LINEAR BOOT TYPE DIFFUSER DETAIL
NO SCALE



HEATING COIL CONTROL VALVE MODULATION



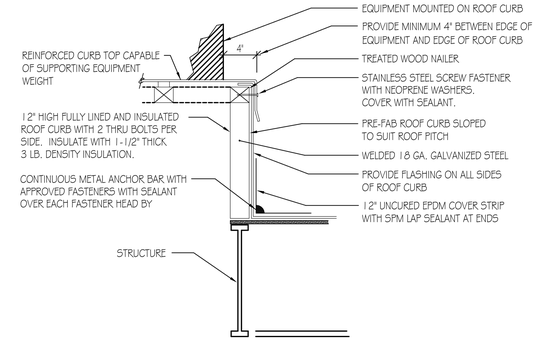
PRIMARY AIR DAMPER MODULATION



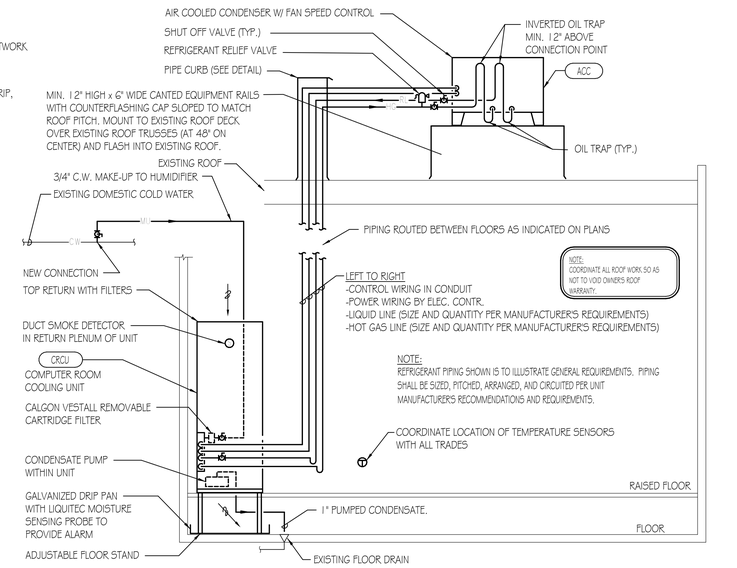
FAN POWERED BOX/RADIATION CONTROL SCHEMATIC
NO SCALE

NOTES:
1. ALL WORK SHOWN ABOVE SHALL BE BY T.C. CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE
2. FP BOX SHALL BE COMPLETE WITH BOX MANUFACTURER'S STANDARD AIRFLOW VELOCITY PRESSURE SENSOR AND CONTROL TRANSFORMER.

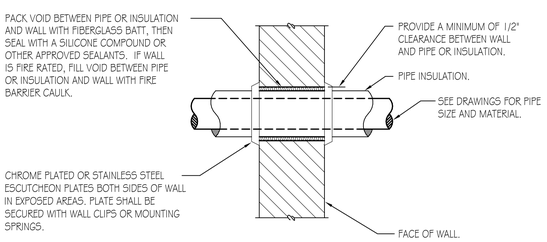
CONSTANT VOLUME FAN POWERED BOX CONTROL SEQUENCES AND SCHEMATIC DIAGRAM
NO SCALE



ROOF CURB DETAIL
NO SCALE

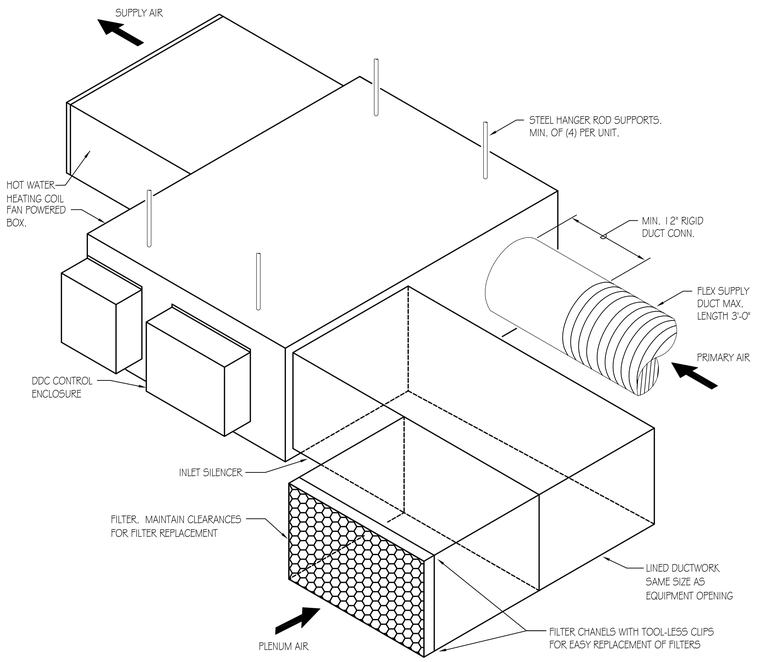


COMPUTER ROOM COOLING SYSTEM CRCU/ACC PIPING DETAIL
NO SCALE

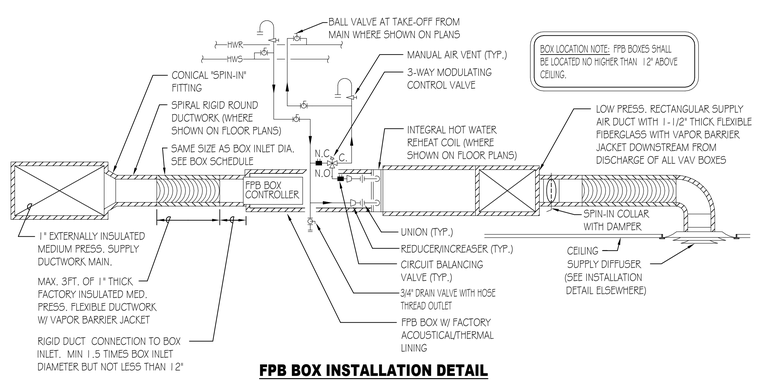


NOTES:
1. I.D. OF WALL OPENING TO BE A MIN. OF 1/2" LARGER THAN O.D. OF PIPE OR INSULATION PASSING THROUGH WALL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THEIR WALL OPENINGS WITH OTHER TRADES AND/OR CONTRACTORS.
3. PIPE PENETRATIONS OF SMOKE OR FIRE WALLS SHALL BE IN COMPLIANCE WITH NFPA-90A.

PIPE PENETRATION OF INTERIOR WALL DETAIL
NO SCALE



FAN POWERED BOX WITH HOT WATER HEATING COIL DETAIL
NO SCALE



FPB BOX INSTALLATION DETAIL
NO SCALE

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2
8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
HVAC DETAILS

SHEET NUMBER:
HV4.01

10/16/2024 11:17:47 AM

COMPUTER ROOM COOLING UNIT SCHEDULE (PRE-PURCHASED)

EQUIPMENT TAG	LOCATION	AREA SERVED	MANUFACTURER	MODEL	TYPE	APPROX. WEIGHT (LBS.)	APPROXIMATE OVERALL DIMENSIONS (IN.)			CAPACITY (MBH)		AIRFLOW			COMPRESSOR	REHEAT			HUMIDIFIER			HUMIDIFIER		AIR FILTERS		ELECTRICAL DATA				NOTES
							H	W	D	TOTAL	SENS.	CFM	EAT. (DB/WB)	LAT. (DB/WB)	REFRIGERANT	TYPE	CAP. (KW)	STAGES	TYPE	CAPACITY	KW	TYPE	LBS/HR	EFF	THICKNESS	MCA	MOCP	PHASE	VOLT	
CRCU-1	IT EQUIPMENT ROOM	IT EQUIPMENT ROOM	LIEBERT	PX023DA1*D	AIR COOLED VERTICAL DOWNFLOW	725	78	34	35	74.5	66	3,600	75/61	58/54	R-410A	ELEC.	12	2	INFRARED	7.7 LBS./HR.	4.8	INFRARED	7.7	MERV 8	2"	33.7	50	3	480	1,2,3,4,5,6,7,8,9,10
CRCU-2	IT EQUIPMENT ROOM	IT EQUIPMENT ROOM	LIEBERT	PX023DA1*D	AIR COOLED VERTICAL DOWNFLOW	725	78	34	35	74.5	66	3,600	75/61	58/54	R-410A	ELEC.	12	2	INFRARED	7.7 LBS./HR.	4.8	INFRARED	7.7	MERV 8	2"	33.7	50	3	480	1,2,3,4,5,6,7,8,9,10

NOTES:
1. iCOM ADVANCED MICROPROCESSOR CONTROL WITH GRAPHICS, AND UNIT-TO-UNIT COMMUNICATIONS FOR CONTROL FUNCTIONALITY, AUTO-RESTART, ETC.
2. DIGITAL SCROLL COMPRESSORS WITH TXV.
3. DUAL FLOAT 5 GPM CONDENSATE PUMP WITH UNIT INTERLOCK.
4. LIQUITEC LEAK DETECTOR.
5. SMOKE DETECTOR.
6. LOCKING DISCONNECT SWITCH.
7. ADJUSTABLE FLOOR STAND AND EQUIPMENT PANELS COMPATIBLE WITH EXISTING FLOOR.
8. RETURN AIR/SUPPLY AIR TEMPERATURE SENSORS.
9. BACNET CARD.
10. TOP RETURN AIR PLENUM WITH FILTER ACCESS.

EQUIPMENT INDICATED IN SCHEDULES HAVE BEEN PRE-PURCHASED BY OWNER AND SHALL BE INSTALLED BY CONTRACTOR. INFORMATION IN THESE SCHEDULES IS FOR INFORMATIONAL PURPOSES. CONTRACTOR SHALL INSTALL ALL FIELD INSTALLED ACCESSORIES/OPTIONS. SEE FLOOR PLANS FOR ADDITIONAL INFORMATION. COORDINATE REQUIREMENTS WITH ALTERNATE BID #2.

AIR COOLED CONDENSER SCHEDULE (PRE-PURCHASED)

EQUIPMENT TAG	LOCATION	UNIT SERVED	MANUFACTURER	MODEL	APPROX. WEIGHT (LBS.)	APPROXIMATE OVERALL DIMENSIONS (IN.)			HEAT REJECTION (MBH)	REFRIGERANT TYPE	FANS		ELECTRICAL DATA				NOTES
						L	W	H			EAT (°F)	QUANTITY	MCA	MOCP	PHASE	VOLT	
ACC-1	ROOF	CRCU-1	LIEBERT	MCM040E1	310	57	48	40	75	R-410A	100	1	1.4	15	3	480	1,2,3
ACC-2	ROOF	CRCU-2	LIEBERT	MCM040E1	310	57	48	40	75	R-410A	100	1	1.4	15	3	480	1,2,3

NOTES:
1. FAN SPEED CONTROL WITH PREMIUM EC MOTOR.
2. LOCKING DISCONNECT SWITCH.
3. 18" LEGS, OR AS REQUIRED TO MAINTAIN PIPE PITCH.

FAN POWERED BOX SCHEDULE

EQUIP TAG	LOCATION	MANUF.	MODEL	AIRFLOW DATA (CFM)				APPROXIMATE BOX DIMENSIONS								MOTOR				NOISE LEVEL (N.C.)		HEATING								ELECTRICAL DATA		NOTES
				PRIMARY AIR (CFM)		FAN		INLET SIZE	INDUCED AIR INLET		DISCHARGE		OVERALL SIZE			FAN SIZE	HP	PH	VOLT	RAD	DIS	HOT WATER			COMMON					MCA	MOCP	
				MIN	MAX	CFM	SPEED		WIDTH	HEIGHT	OUTLET WIDTH	OUTLET HEIGHT	WIDTH	HEIGHT	LENGTH							EWT (°F)	GPM	ROWS	CAPACITY (BTUH)	PRIMARY TEMP. (°F)	RETURN TEMP. (°F)	MAT (°F)	LAT (°F)			
FPB-A210	COMPUTERS A210.2	TITUS	DTFS	1150	2,010	2010	AS REQ'D	16"	14"	18"	25"	18"	39"	20"	48"	E	0.75	1	120	45	40	180	3.0	2	73,300	55.0	65.0	63.0	96.8	12.0 A	20 A	1,2,3,4,5,6,7,8,9
FPB-A210.2	COMPUTERS A210.2	TITUS	DTFS	1150	2,070	2070	AS REQ'D	16"	14"	18"	25"	18"	39"	20"	48"	E	0.75	1	120	46	41	180	3.0	2	74,700	55.0	65.0	63.0	96.4	12.0 A	20 A	1,2,3,4,5,6,7,8,9
FPB-A210.4	CIRCULATION A210.4	TITUS	DTFS	1150	1,570	1570	AS REQ'D	14"	14"	18"	25"	18"	39"	20"	48"	D	0.50	1	120	37	29	180	2.0	2	55,800	55.0	65.0	63.0	95.9	12.0 A	20 A	1,2,3,4,5,6,7,8,9
FPB-A210.B	COMPUTERS A210.2	TITUS	DTFS	450	810	810	AS REQ'D	10"	16"	14"	20"	12"	37"	16"	43"	C	0.33	1	120	34	27	180	1.5	2	29,300	55.0	65.0	63.0	96.5	6.2 A	15 A	1,2,3,4,5,6,7,8,9
FPB-A210.F	LIBRARY STACKS A210L	TITUS	DTFS	800	1,450	1450	AS REQ'D	14"	14"	18"	25"	18"	39"	20"	48"	D	0.50	1	120	37	30	180	1.5	2	52,400	55.0	65.0	63.0	96.5	9.6 A	15 A	1,2,3,4,5,6,7,8,9
FPB-A210.L	LIBRARY STACKS A210L	TITUS	DTFS	1150	2,025	2025	AS REQ'D	16"	14"	18"	25"	18"	39"	20"	48"	E	0.75	1	120	45	41	180	3.0	2	74,400	55.0	65.0	63.0	97.0	12.0 A	20 A	1,2,3,4,5,6,7,8,9
FPB-A212.1	TUTORING A212	TITUS	DTFS	1200	2,065	2065	AS REQ'D	16"	14"	18"	25"	18"	39"	20"	48"	E	0.75	1	120	46	41	180	3.0	2	75,600	55.0	65.0	63.0	96.9	12.0 A	20 A	1,2,3,4,5,6,7,8,9
FPB-A212.2	BREAK ROOM A212J	TITUS	DTFS	1300	2,250	2250	AS REQ'D	16"	14"	18"	25"	18"	39"	20"	48"	E	0.75	1	120	47	42	180	3.3	2	82,300	55.0	65.0	63.0	96.9	12.0 A	20 A	1,2,3,4,5,6,7,8,9
FPB-A212.3	COMPUTERS A210.2	TITUS	DTFS	1130	2,065	2065	AS REQ'D	16"	14"	18"	25"	18"	39"	20"	48"	E	0.75	1	120	46	41	180	3.0	2	74,200	55.0	65.0	63.0	96.3	12.0 A	20 A	1,2,3,4,5,6,7,8,9
FPB-A212.A	TUTORING A212	TITUS	DTFS	345	645	645	AS REQ'D	10"	16"	14"	20"	12"	37"	16"	43"	C	0.33	1	120	30	25	180	1.0	2	24,200	55.0	65.0	63.0	97.7	6.2 A	15 A	1,2,3,4,5,6,7,8,9
FPB-A212.F	BREAK ROOM A212J	TITUS	DTFS	550	965	965	AS REQ'D	12"	16"	14"	20"	12"	37"	16"	43"	C	0.33	1	120	35	29	180	1.5	2	35,200	55.0	65.0	63.0	96.8	6.2 A	15 A	1,2,3,4,5,6,7,8,9
FPB-A212K	COMPUTERS A210.2	TITUS	DTFS	1150	2,050	2050	AS REQ'D	16"	14"	18"	25"	18"	39"	20"	48"	E	0.75	1	120	45	41	180	3.0	2	74,400	55.0	65.0	63.0	96.6	12.0 A	20 A	1,2,3,4,5,6,7,8,9

NOTES:
1. OTHER ACCEPTABLE MANUFACTURERS: SEE SPECIFICATIONS.
2. ALL BOXES TO BE PROVIDED WITH FACTORY INSTALLED PRIMARY AIR VALVE, FAN, CONTROL BOX, FIELD VARIABLE SCR FAN SPEED CONTROL, ECM VARIABLE SPEED MOTOR, FAN DISCONNECT SWITCH, 24V CONTROL TRANSFORMER, CAMLOCKS ON ACCESS PANELBOX, AND 1" FIBER-FREE INSULATION.
3. SOUND LEVELS (NC) AST FULL AIR FLOW WITH 0.75" INLET STATIC PRESSURE AND 0.5" DISCHARGE PRESSURE. NOISE CRITERIA (NC) SOUND INFORMATION IS BASED ON ARI-880-98.
4. REGARDLESS OF HOT WATER COIL AIR PRESSURE DROP, AVAILABLE DISCHARGE STATIC PRESSURE SHALL NOT BE LESS THAN 0.25" AT AIR FLOW RATE SCHEDULED.
5. SEE CONTROL DIAGRAMS FOR BOX CONTROL.
6. FPB MANUFACTURER TO MOUNT IN FACTORY THE DDC CARD/CONTROLLER AND DAMPER ACTUATOR FURNISHED BY THE T.C. CONTRACTOR. BOXES SHALL NOT BE RELEASED FOR PRODUCTION UNTIL BOX MANUFACTURER HAS COORDINATED WITH T.C. CONTRACTOR.
7. HOT WATER COIL WATER PRESSURE DROP SHALL NOT EXCEED 5' AND AIR PRESSURE DROP SHALL NOT EXCEED 0.3" WG.
8. MANUFACTURER'S OTHER THAN BASIS OF DESIGN: LEAVING AIR TEMPERATURE SHALL NOT BE LESS THAN SCHEDULED AT FLOW RATE INDICATED.
9. PROVIDE INDUCED AIR SOUND ATTENUATOR AND INLET FILTER.

DIFFUSER, REGISTER, AND GRILLE SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	NOMINAL FACE SIZE	MATERIAL	MAX. N.C.	NOTES
A	TITUS	OMNI	SQUARE PANEL FACE	24"x24"	STEEL	30	1,2,3
B	TITUS	50F	EGG CRATE	VARIES	ALUMINUM	30	1,2,3,4
C	TITUS	350R	35 DEG. DEFLECTION GRILLE	VARIES	ALUMINUM	30	1,2,3
D	TITUS	300F	DOUBLE DEFLECTION SUPPLY REGISTER	VARIES	ALUMINUM	30	1,2,3
E	TITUS	TBDI-80	LINEAR INSULATED BOOT	48 IN LONG	STEEL	30	1,2,3

NOTES:
1. OTHER ACCEPTABLE MANUFACTURERS: SEE SPECIFICATIONS.
2. FINISH AS SELECTED BY ARCHITECT.
3. OPPOSED BLADE DAMPER WHERE BRANCH DAMPER NOT INDICATED ON DRAWINGS.
4. 12"x12"x1" OR 12"x12"x12" W/ 45 DEG. DEFLECTION GRID.

FLOOR PLAN TAG LEGEND:



ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

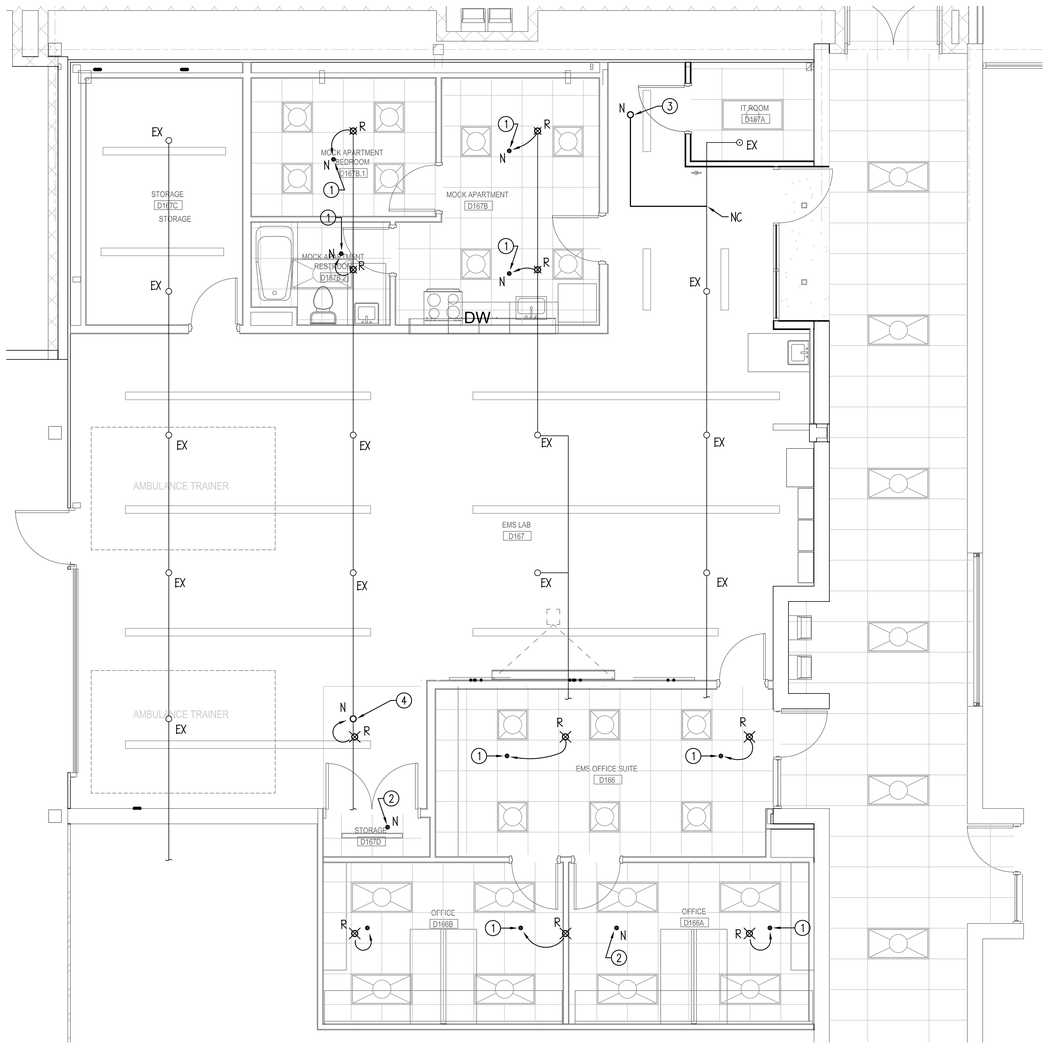
SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

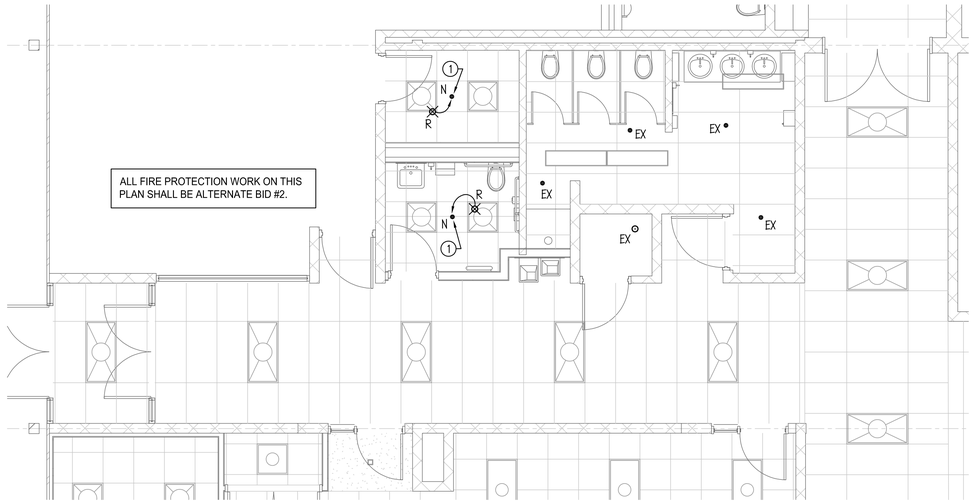
SHEET TITLE:
HVAC SCHEDULES

SHEET NUMBER:
HV5.00

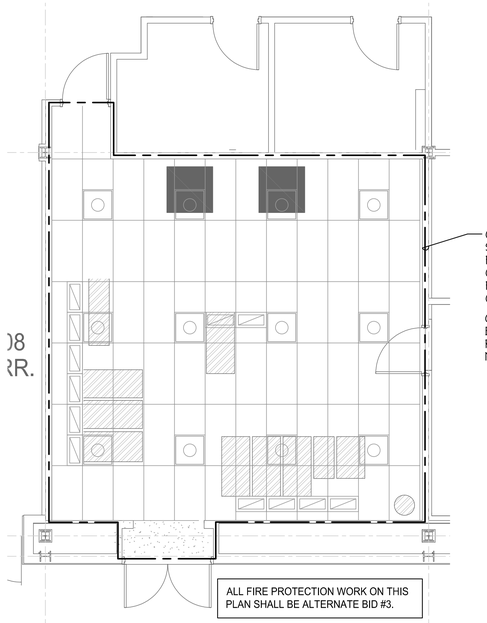
10/16/2024 11:17:48 AM



1 FIRE PROTECTION PLAN - EMS
1/4" = 1'-0"



2 FIRE PROTECTION PLAN - TOILET
1/4" = 1'-0"



3 FIRE PROTECTION PLAN - IT ROOM
1/4" = 1'-0"

SPRINKLER HEAD LEGEND:

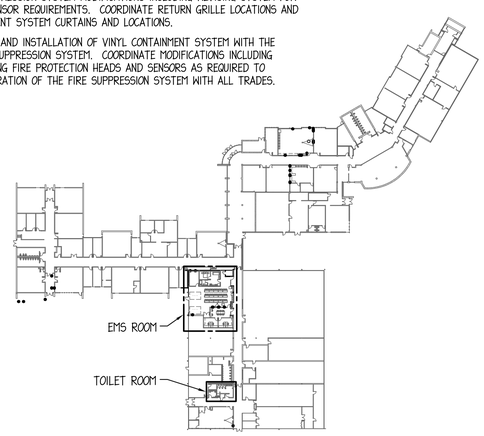
- EX ⊙ EXISTING SPRINKLER HEAD TO REMAIN
- R ⊗ REMOVE EXISTING HEAD
- N ⊙ NEW SPRINKLER HEAD, SEMI-RECESSED PENDENT, STANDARD COVERAGE, WHITE FINISH.
- N ● NEW SPRINKLER HEAD, CONCEALED PENDENT, STANDARD COVERAGE, WHITE FINISH.
- N ○ NEW UPRIGHT SPRINKLER HEAD
- N/R ⊙/⊗ REMOVE EXISTING HEAD, PROVIDE NEW HEAD AT NEW LOCATION, CENTER HEAD IN GRID AND ADJUST ELEVATION TO NEW CEILING HEIGHT

DRAWING NOTES:

1. REMOVE EXISTING HEAD LABELED WITH 'R', REMOVE EXISTING BRANCH PIPING BACK TO A POINT WHERE IT CAN EXTENDED TO NEW LOCATION SHOWN, PROVIDE NEW HEAD LABELED WITH 'N' AT LOCATION SHOWN CENTERED IN GRID AT NEW ELEVATION AND EXTEND BRANCH PIPING TO NEW HEAD LOCATION.
2. PROVIDE NEW HEAD LABELED WITH 'N' AT LOCATION SHOWN CENTERED IN GRID AT NEW ELEVATION AND EXTEND NEW BRANCH PIPING TO NEW HEAD LOCATION.
3. PROVIDE NEW UPRIGHT TYPE HEAD LABELED WITH 'N' AT LOCATION SHOWN, EXTEND NEW BRANCH PIPING TO NEW HEAD LOCATION.
4. REMOVE EXISTING HEAD LABELED WITH 'R', REMOVE EXISTING BRANCH PIPING BACK TO A POINT WHERE IT CAN EXTENDED TO NEW LOCATION SHOWN, PROVIDE NEW UPRIGHT HEAD LABELED WITH 'N' AT LOCATION SHOWN AND EXTEND BRANCH PIPING TO NEW HEAD LOCATION.

COORDINATE ALL WORK TO BE PERFORMED IN THIS AREA WITH THE EXISTING FM200 FIRE SUPPRESSION SYSTEM INCLUDING PIPING, SENSOR AND HEAD LOCATIONS. CONTACT PEDRO CLAVERO AT CINTAS CORPORATION (630-978-0600, CLAVEROP@CINTAS.COM) AND COORDINATE FIRE SUPPRESSION SYSTEM MODIFICATIONS INCLUDING REVISING SYSTEM FOR PIPING, HEAD, AND SENSOR REQUIREMENTS. COORDINATE RETURN GRILLE LOCATIONS AND COLD AISLE CONTAINMENT SYSTEM CURTAINS AND LOCATIONS.

COORDINATE LOCATION AND INSTALLATION OF VINYL CONTAINMENT SYSTEM WITH THE EXISTING FM200 FIRE SUPPRESSION SYSTEM. COORDINATE MODIFICATIONS INCLUDING RELOCATING AND ADDING FIRE PROTECTION HEADS AND SENSORS AS REQUIRED TO MAINTAIN PROPER OPERATION OF THE FIRE SUPPRESSION SYSTEM WITH ALL TRADES.



K KEY PLAN
NO SCALE

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
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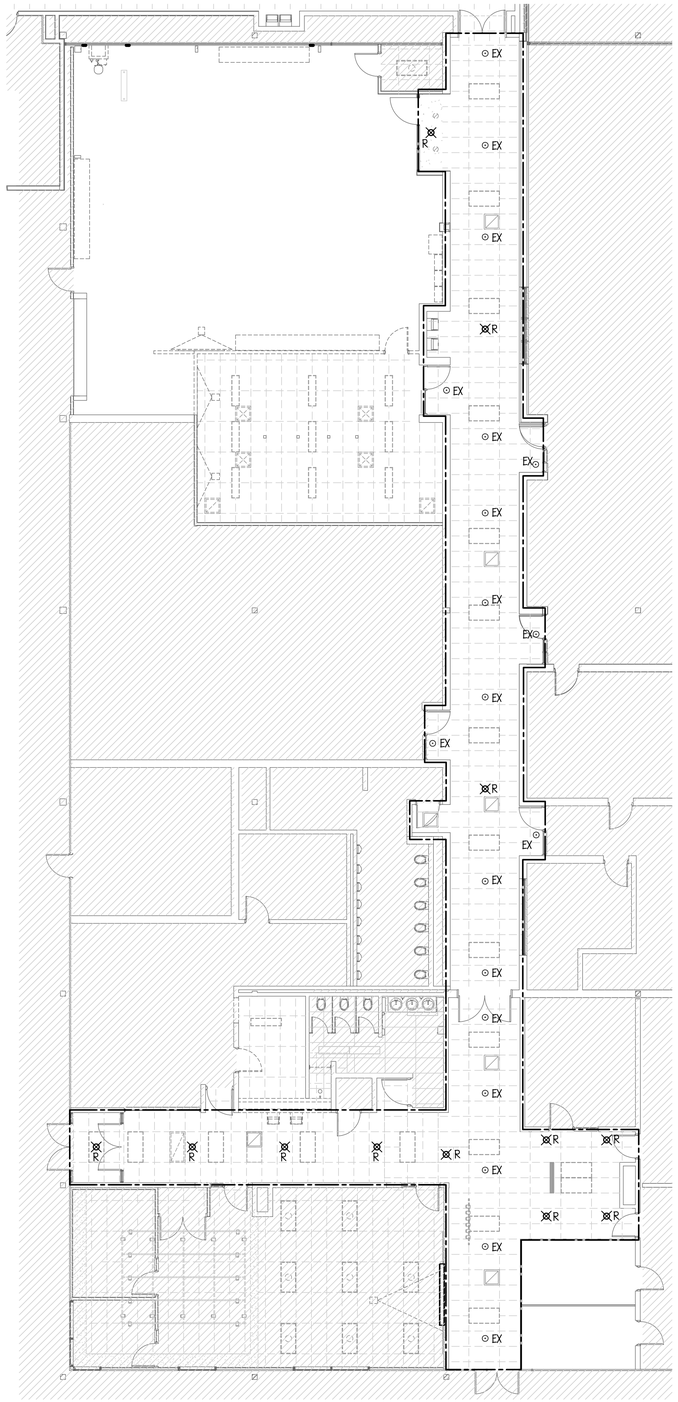
NO:	DESCRIPTION:	DATE:

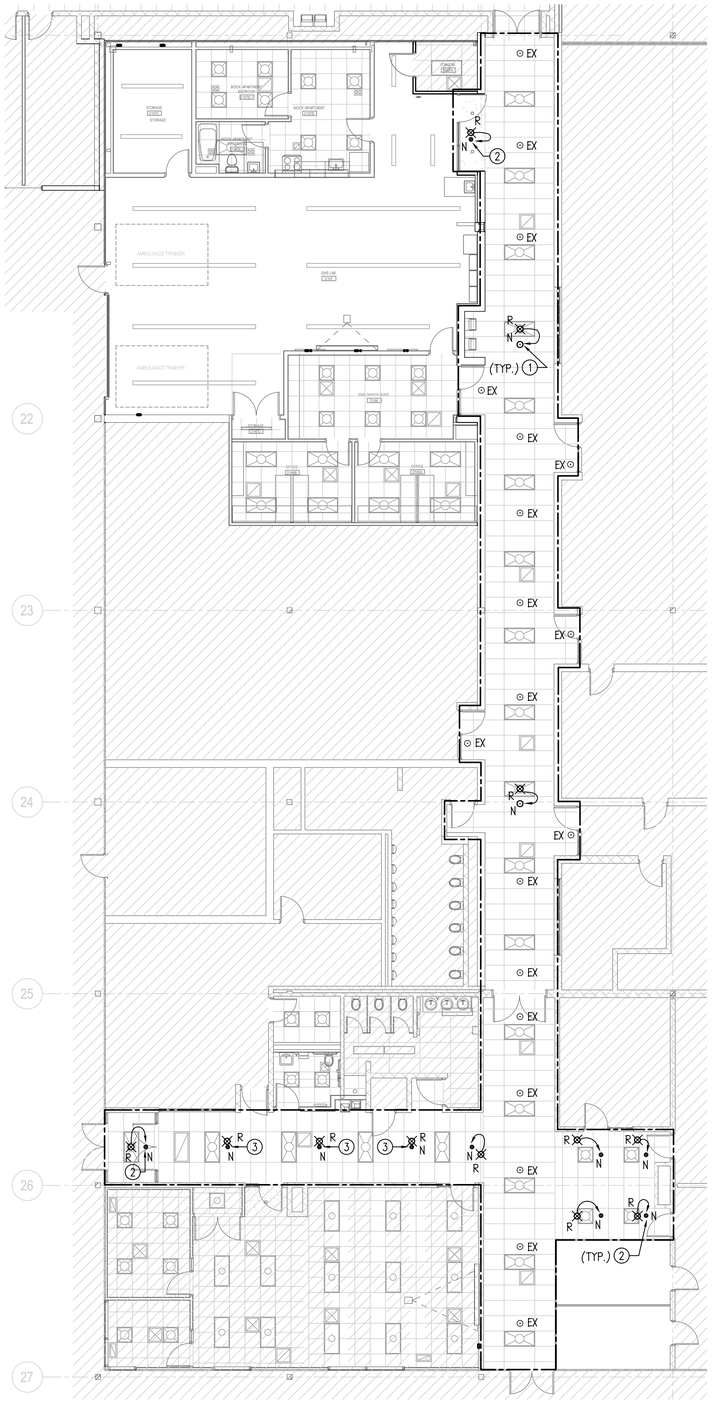
SHEET TITLE:
FIRST FLOOR FIRE PROTECTION PLANS

SHEET NUMBER:
FP1.11

NAME: 1550A25 FP1.11.DWG BY: KDK DATE: Oct. 15, 24 TIME: 11:56 AM



1 FIRE PROTECTION DEMOLITION PLAN - CORRIDOR
1/8" = 1'-0"



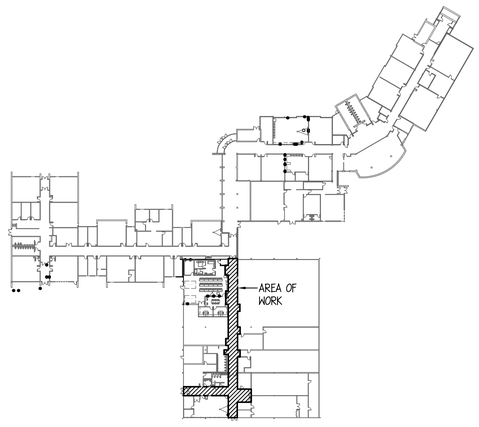
2 FIRE PROTECTION PLAN - CORRIDOR
1/8" = 1'-0"

SPRINKLER HEAD LEGEND:

- EX ⊙ — EXISTING SPRINKLER HEAD TO REMAIN
- R ⊗ — REMOVE EXISTING HEAD
- N ⊙ — NEW SPRINKLER HEAD, SEMI-RECESSED PENDENT, STANDARD COVERAGE, WHITE FINISH.
- N ● — NEW SPRINKLER HEAD, CONCEALED PENDENT, STANDARD COVERAGE, WHITE FINISH.
- N ○ — NEW UPRIGHT SPRINKLER HEAD
- N / R — REMOVE EXISTING HEAD, PROVIDE NEW HEAD AT NEW LOCATION, CENTER HEAD IN GRID AND ADJUST ELEVATION TO NEW CEILING HEIGHT
- N / R — REMOVE EXISTING HEAD, PROVIDE NEW CONCEALED PENDENT HEAD AT NEW LOCATION, AND ADJUST ELEVATION TO NEW CEILING HEIGHT WHERE REQUIRED

DRAWING NOTES:

1. REMOVE EXISTING HEAD LABELED WITH 'R', REMOVE EXISTING BRANCH PIPING BACK TO A POINT WHERE IT CAN EXTENDED TO NEW LOCATION SHOWN, PROVIDE NEW HEAD LABELED WITH 'N' AT LOCATION SHOWN CENTERED IN GRID AT NEW ELEVATION AND EXTEND BRANCH PIPING TO NEW HEAD LOCATION.
2. REMOVE EXISTING HEAD LABELED WITH 'R', REMOVE EXISTING BRANCH PIPING BACK TO A POINT WHERE IT CAN EXTENDED TO NEW LOCATION SHOWN, PROVIDE NEW CONCEALED PENDENT HEAD LABELED WITH 'N' AT LOCATION SHOWN CENTERED IN GRID AT NEW ELEVATION AND EXTEND BRANCH PIPING TO NEW HEAD LOCATION.
3. REMOVE EXISTING HEAD LABELED WITH 'R', PROVIDE NEW CONCEALED PENDENT HEAD LABELED WITH 'N' AT SAME LOCATION SHOWN CENTERED IN GRID AND EXTEND BRANCH PIPING TO NEW HEAD.



K KEY PLAN
NO SCALE

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

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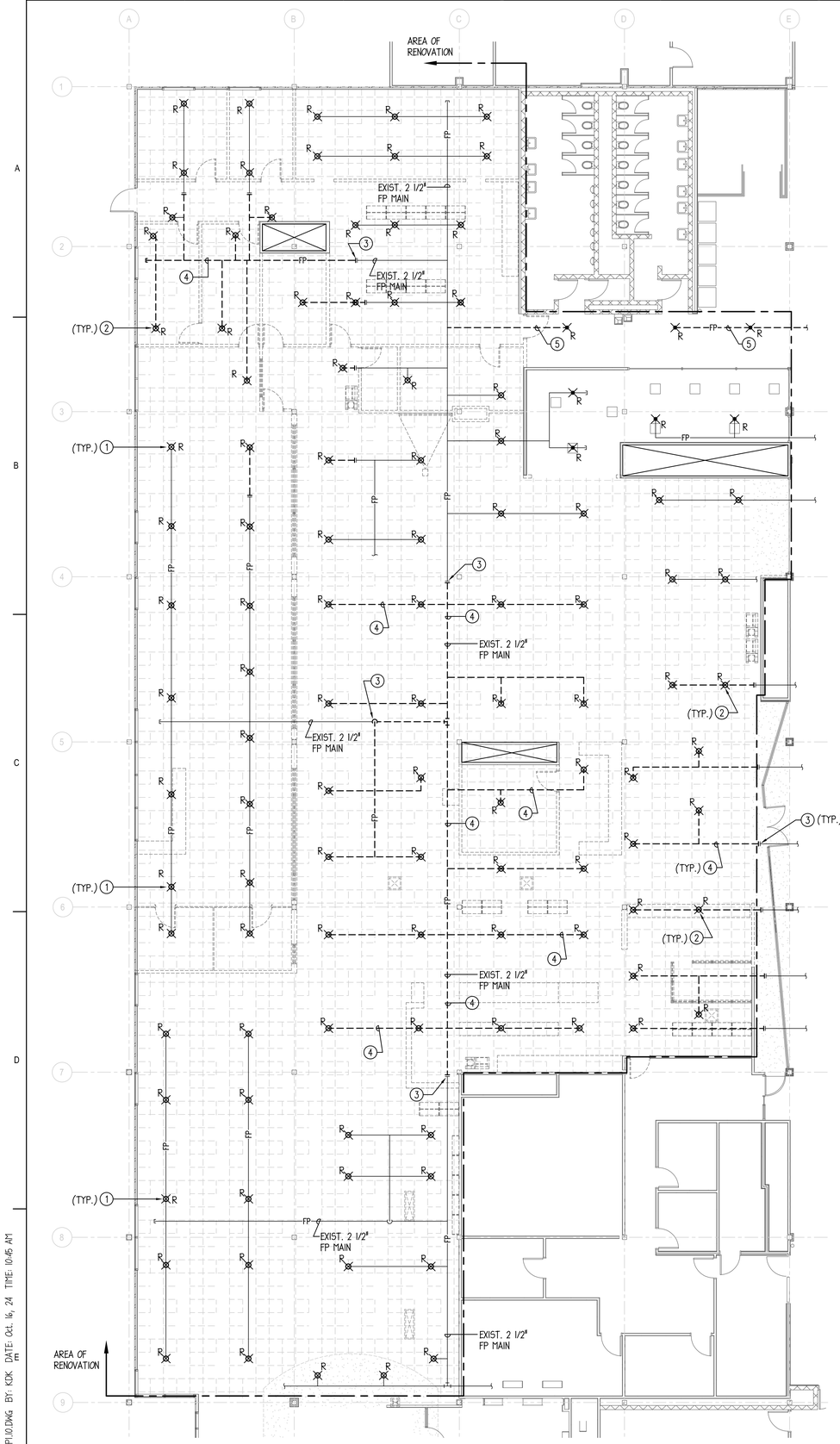
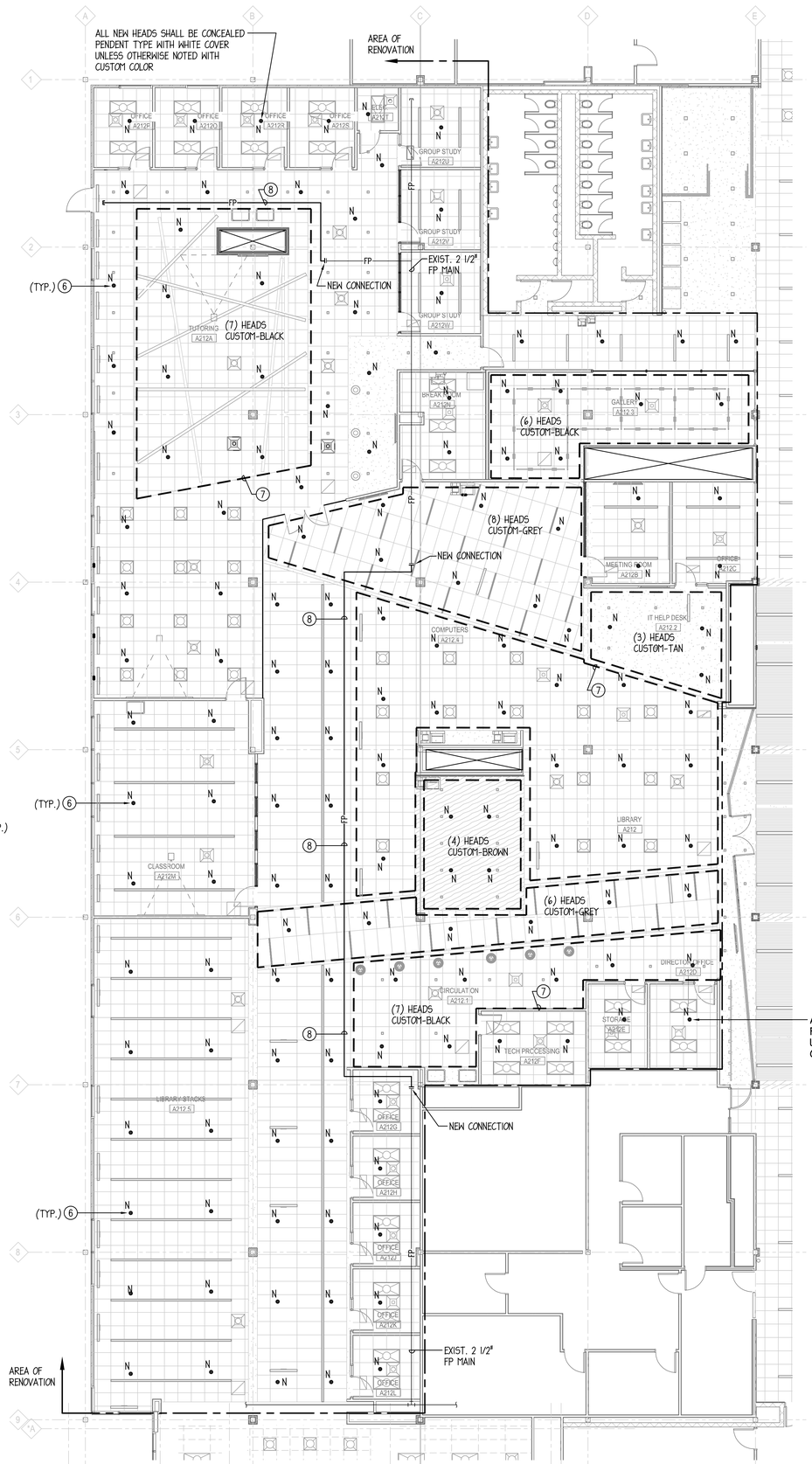
FIRST FLOOR FIRE PROTECTION PLANS

SHEET NUMBER:
FP1.12

NAME: 1550ACD5 FP1.12.DWG BY: KOK DATE: Oct. 16, 24 TIME: 10:45 AM



1 FIRE PROTECTION DEMO PLAN - LIBRARY
1/8" = 1'-0"



2 FIRE PROTECTION PLAN - LIBRARY
1/8" = 1'-0"

SPRINKLER HEAD LEGEND:

- EX ⊙ EXISTING SPRINKLER HEAD TO REMAIN
- R ⊗ REMOVE EXISTING HEAD
- N ⊙ NEW SPRINKLER HEAD, SEMI-RECESSED PENDENT, STANDARD COVERAGE, WHITE FINISH.
- N ● NEW SPRINKLER HEAD, CONCEALED PENDENT, STANDARD COVERAGE, WHITE FINISH - UNLESS OTHERWISE NOTED WITH CUSTOM COLOR
- N ○ NEW UPRIGHT SPRINKLER HEAD
- N / R REMOVE EXISTING HEAD, PROVIDE NEW HEAD AT NEW LOCATION, CENTER HEAD IN GRID AND ADJUST ELEVATION TO NEW CEILING HEIGHT

DRAWING NOTES:

1. REMOVE EXISTING HEAD LABELED WITH 'R', REMOVE EXISTING BRANCH PIPING BACK TO A POINT WHERE IT CAN EXTENDED TO NEW HEAD LOCATION SHOWN ON NEW WORK PLAN.
2. REMOVE EXISTING HEAD LABELED WITH 'R', REMOVE EXISTING BRANCH PIPING SHOWN DASHED BACK LOCATION SHOWN TO ACCOMMODATE HIGHER CEILING..
3. DISCONNECT PIPING AT THIS LOCATION, REMOVE PIPING SHOWN DASHED BEYOND THIS POINT.
4. REMOVE BRANCH AND MAIN PIPING SHOWN DASHED.
5. REMOVE EXISTING HEAD LABELED WITH 'R', REMOVE EXISTING BRANCH PIPING BACK TO A POINT PAST DUCT REMOVAL. COORDINATE WITH MECH CONTR.
6. PROVIDE NEW HEAD LABELED WITH 'N' AT LOCATION SHOWN CENTERED IN GRID AT EXISTING CEILING ELEVATION AND EXTEND NEW BRANCH PIPING TO NEW HEAD LOCATION.
7. PROVIDE NEW HEAD LABELED WITH 'N' AT LOCATION SHOWN CENTERED IN GRID AT NEW HIGHER ELEVATION AND EXTEND NEW BRANCH PIPING TO NEW HEAD LOCATION. TYPICAL FOR ALL HEADS WITHIN AREA INDICATED
8. ROUTE NEW 2 1/2" FP MAIN AROUND AREA OF HIGHER CEILING AS SHOWN.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

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DKA PROJECT NO: 24-031

KEY PLAN:

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NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LIBRARY FIRE PROTECTION PLANS

SHEET NUMBER:
FP1.20

NAME: 1560425 FP1.10.DWG BY: KDK DATE: Oct. 16, 24 TIME: 10:45 AM

GENERAL NOTES - FIRE PROTECTION:

GENERAL

1.1 SYSTEM TO PROVIDE COVERAGE FOR BUILDING AREAS NOTED. SYSTEMS SHALL CONFORM TO THE DESIGN CRITERIA REQUIRED BY NFPA-13 AND THE LOCAL AUTHORITY HAVING JURISDICTION. WORKING PLANS AND CALCULATIONS SHALL BE SUBMITTED TO LOCAL APPROVAL AGENCIES AND TO OWNERS FIRE PROTECTION CONSULTANT FOR APPROVAL.

1.2 ALL WORK SHALL BE INSTALLED AND ALL MATERIALS SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS OF NFPA-13, 2016 EDITION AND ALL LOCAL AMENDMENTS.

1.3 CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND THEIR ASSOCIATED FEES.

1.4 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL INSPECTIONS WITH THE LOCAL AUTHORITY HAVING JURISDICTION.

1.5 DRAWINGS ARE GENERALLY DIAGRAMMATIC. ROUTING OF PIPING, ETC., AS SHOWN ON DRAWINGS, DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS, SUCH AS OFFSETS, BENDS OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN COMPLETION DATE OF THE PROJECT.

1.6 ALL EXISTING PIPING INFORMATION SHOWN ON THIS DRAWING HAS BEEN OBTAINED FROM OWNER'S EXISTING CONSTRUCTION DOCUMENTS AND LIMITED FIELD SURVEY. EXACT LOCATION OF EXISTING SPRINKLER SYSTEM COMPONENTS SHALL BE FIELD VERIFIED BEFORE STARTING INSTALLATION.

1.7 THE CONTRACTOR SHALL BE RESPONSIBLE DURING THE INSTALLATION AND TESTING PERIODS OF THE FIRE SPRINKLER SYSTEM WORK, FOR ANY MATERIAL DAMAGE TO THE WORK OF THE OWNER OR OTHERS, AND TO THE PROPERTY AND MATERIALS OF THE OWNER OR OTHERS, INCLUDING CEILING SPRINKLER TILES, AND INCLUDING DAMAGE CAUSED BY GREASE, OIL, OR LEAKS IN SPRINKLER EQUIPMENT, FITTINGS, OR BY DISCONNECTED PIPES.

1.8 THE CONTRACTOR SHALL REVIEW THE DRAWINGS OF ALL OTHER TRADES INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, STRUCTURAL, HVAC, PLUMBING AND ELECTRICAL AS TO REVIEW FOR ADDITIONAL AREAS AND ASPECTS OF THE REQUIRED SPRINKLER DESIGN NOT SHOWN. CONTRACTOR SHALL VERIFY THE SPRINKLER REQUIREMENTS OF ALL SKYLIGHTS, CEILING POCKETS, FLOATING CEILINGS, CEILING ELEVATIONS, CEILING TYPES AND CONSTRUCTION, ATTIC SPACES, OVERBUILD ATTIC SPACES, STAIRCASE AND STAIRCASE LANDINGS, ELECTRICAL ROOMS, LIGHT FIXTURES, DUCTWORK, FURNITURE, AND OTHER OBSTRUCTIONS BY ARCHITECTURAL AND STRUCTURAL COMPONENTS. CONTRACTOR SHALL PROVIDE ALL REQUIRED SPRINKLER COVERAGE TO ADDRESS SUCH BUILDING CHARACTERISTICS.

HAZARD CLASSIFICATIONS AND HYDRAULIC CALCULATIONS

2.1 CONTRACTOR SHALL REVIEW ALL FLOOR PLANS AND DETERMINE EACH ROOM SPECIFIC HAZARD PER THE REQUIREMENTS OF NFPA-13. SPRINKLER DESIGN SHALL ADHERE TO THE STANDARDS SET FORTH IN NFPA-13.

2.2 LIGHT HAZARD AREAS SHALL BE DESIGNED TO 0.10 GPM PER SQUARE FOOT, 225 SQ.FT PER HEAD WITH A REMOTE AREA OF 1500 SQUARE FEET. AN AREA OF LESS THAN 1,500 SQUARE FEET MAY BE PERMITTED WHEN THE USE OF QUICK RESPONSE HEADS QUALIFIES FOR AN AREA REDUCTION. AREA SIZES SHALL BE DETERMINED BY THE REGULATIONS OF NFPA-13. ROOM TYPES SHALL INCLUDE BUT NOT BE LIMITED TO CLASSROOMS, TOILET ROOMS, CORRIDORS, VESTIBULES, MULTI-PURPOSE ROOMS, STAIRWAYS, EXAM ROOMS, OFFICE SPACES, ETC.

2.3 ORDINARY HAZARD GROUP 1 AREAS SHALL BE DESIGNED TO 0.15 GPM PER SQUARE FOOT, 130 SQ.FT PER HEAD WITH A REMOTE AREA OF 1,500 SQUARE FEET. ROOM TYPES SHALL INCLUDE BUT NOT BE LIMITED TO STORAGE ROOMS, ELECTRICAL ROOMS, MECHANICAL ROOMS, BOILER ROOM, SERVER ROOMS, ETC.

SHOP DRAWINGS, SUBMITTALS AND CLOSEOUT DOCUMENTS

3.1 SHOP DRAWINGS: PROVIDE A MINIMUM 1/8"=1'-0" SCALE LAYOUT IN ALL AREAS INDICATING SPRINKLER LOCATIONS COORDINATED WITH CEILING INSTALLATION. INDICATE HYDRAULIC CALCULATIONS REFERENCE POINTS, DETAILED PIPE LAYOUT INCLUDING PIPE SIZE, LENGTH, AND ELEVATION, HANGERS AND SUPPORTS, SPRINKLERS, COMPONENTS AND ACCESSORIES. INDICATE SYSTEM CONTROL VALVE, DRAIN VALVE, AUXILIARY DRAIN VALVE, AND INSPECTOR'S TEST LOCATIONS. INDICATE PIPE MATERIALS USED, JOINTING METHODS, SUPPORTS, FLOOR AND WALL PENETRATION SEALS AND REFERENCE ALL REQUIRED CODES. INDICATE SUPPORT DETAILS, REMOTE AREAS IDENTIFIED, SPRINKLER HEAD SUMMARY AND SITE PLAN OF WATER MAIN TO STREET CONNECTION. SUBMIT HYDRAULIC CALCULATIONS FOR EACH ZONE, OCCUPANCY TYPE, HAZARD TYPE, ETC.

3.2 PRODUCT DATA: SUBMIT DATA ON SPRINKLERS AND SPECIALTIES, INCLUDING HEADS, PIPING, VALVES, PIPE HANGERS, BACKFLOW PREVENTER, MANUFACTURERS CATALOG INFORMATION. SUBMIT PERFORMANCE RATINGS, ROUGH-IN DETAILS, SUPPORT REQUIREMENTS, AND PIPING CONNECTIONS.

3.3 PROJECT RECORD DOCUMENTS: PROVIDE UPDATED VERSION OF MINIMUM 1/8" = 1'-0" SCALE COORDINATION SHOP DRAWINGS INDICATING ACTUAL LOCATIONS OF VALVES, PIPING ABOVE AND BELOW GRADE, SPRINKLER HEADS, AUXILIARY DRAINS, FIRE DEPARTMENT CONNECTIONS, INSPECTORS TEST CONNECTIONS, PUMPS, BACKFLOW PREVENTERS, AND ALL OTHER EQUIPMENT INSTALLED BY THIS CONTRACTOR.

PIPE HANGERS AND SUPPORTS

4.1 ALL FIRE PROTECTION PIPING SHALL BE SUSPENDED WITH APPROVED/LISTED PIPE HANGERS IN COMPLIANCE WITH NFPA STANDARDS. CUTTING STRUCTURAL MEMBERS TO RUN PIPING, OR TO FACILITATE HANGER FASTENING IS NOT PERMITTED.

4.2 VERTICAL ATTACHMENT TO METAL DECK AND WOOD TRUSS'S SHALL NOT BE PERMITTED. HORIZONTAL ATTACHMENT TO WOOD TRUSS SHALL BE MADE BY HORIZONTAL SUPPORT TO BOTTOM CORD OF TRUSS.

SPRINKLER SYSTEM COMPONENTS AND ACCESSORIES

5.1 FIRE PROTECTION SYSTEM SHALL INCLUDE ALL ITEMS FOR A COMPLETE SYSTEM. SPECIFICALLY THIS IS TO INCLUDE BUT NOT LIMITED TO: PIPE SUPPORTS, VALVES, GAUGES, TRIM, ALARMS, SPECIALTY DEVICES, CONTROLS, AND ITEMS INCIDENTAL TO A COMPLETE SYSTEM.

5.2 AUXILIARY DRAINS AND SIGNS SHALL BE PROVIDED AT THE LOW POINT OF EACH TRAPPED SECTION OF PIPING AND IDENTIFYING SIGNS SHALL BE ATTACHED THERETO. INSTALL ALL AUXILIARY DRAIN VALVES IN ACCESSIBLE AREAS. FIELD COORDINATE LOCATIONS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.

5.3 THE INTERCONNECTION OF THE ALARM SUPERVISORY SIGNALS MUST BE APPROVED BY THE PROPER ALARM REPRESENTATIVE, AND WORKING PLANS INDICATING THE LOCATIONS OF ALL ELECTRICAL COMPONENTS SHALL BE FURNISHED TO THE FIRE ALARM CONTRACTOR.

5.4 CONTRACTOR SHALL PROVIDE ALL MEANS TO SHUT-DOWN EXISTING PIPING SYSTEMS WHERE REQUIRED TO COMPLETE WORK UNDER THIS CONTRACT. CONTRACTOR SHALL PROVIDE ALL NECESSARY VALVES TO ISOLATE RENOVATED SECTIONS OF THE BUILDING WITHOUT DISTURBING SECTIONS OF THE BUILDING NOT UNDER RENOVATION.

5.5 INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED.

5.6 PROVIDE ACCESS TO ALL VALVES AND SYSTEM COMPONENTS REQUIRING ACCESS. ALL PIPING ACCESSORIES AND EQUIPMENT SUCH AS VALVES SHALL BE INSTALLED AT A REASONABLE HEIGHT AND POSITION IN ORDER TO FACILITATE MAINTENANCE.

SPRINKLER HEADS

6.1 ALL SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF 2x2 TILE OR QUARTER POINT OF 2x4 CEILING TILE UNLESS OTHERWISE NOTED OR DIRECTED BY THE ARCHITECT/ENGINEER OR LOCAL FIRE DEPARTMENT AUTHORITIES.

6.2 SPRINKLER HEADS IN FINISHED CEILING SHALL BE SEMI-RECESSED OR CONCEALED, TYPE AS SHOWN ON DRAWINGS. STANDARD RESPONSE, QUICK RESPONSE, COLOR AS INDICTED ON DRAWINGS, K=5.6, 155 DEGREE UNLESS OTHERWISE NOTED.

6.3 SPRINKLER HEADS IN NON-CEILING AREAS SHALL BE BRASS UPRIGHT. STANDARD RESPONSE, K=5.6, 155 DEGREE UNLESS OTHERWISE NOTED. OPTION FOR QUICK RESPONSE SPRINKLERS ALLOWED WHERE PRESSURE PERMITS.

6.4 SPRINKLER HEADS LOCATED WITHIN MECHANICAL ROOMS, BOILER ROOMS, ELECTRICAL ROOMS, KITCHENS, ELEVATOR EQUIPMENT ROOMS, KILN ROOMS, SHALL BE RATED FOR 200 DEGREES.

6.5 ALL SPRINKLER HEADS BELOW 7'-0" FEET OR IN MECHANICAL ROOMS, STORAGE ROOMS, GYMNASIUMS OR IN AREAS SUBJECTED TO MECHANICAL INJURY SHALL HAVE AN APPROVED HEAD GUARD.

6.6 FLEXIBLE CONNECTION TO SPRINKLER HEADS SHALL NOT BE PERMITTED.

6.7 SPRINKLER HEADS SHOWN ARE MINIMUMS. CONTRACTOR SHALL PROVIDE ADDITIONAL HEADS AS REQUIRED TO COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS OR TO PROVIDE ADEQUATE COVERAGE AS SPECIFIED OR REQUIRED BY APPROPRIATE HAZARD CLASS.

FIRE PROTECTION (SPRINKLER) PIPING

7.1 MINIMUM PIPE SIZE SHALL BE 1 INCH. ANY REDUCING OF SIZE SHALL OCCUR AT SPRINKLER HEAD CONNECTION.

7.2 SPRINKLER PIPING SHALL NOT BE INSTALLED DIRECTLY OVER ANY ELECTRICAL EQUIPMENT PANELS, TELEPHONE OR LOW VOLTAGE EQUIPMENT OR SIMILAR TYPE OF EQUIPMENT.

7.3 ALL PIPE AND FITTINGS SHALL BE INSTALLED IN RUST-FREE CONDITION.

7.4 THE USE OF THREADED BUSHINGS WILL NOT BE PERMITTED IN ANY AREA OF THIS INSTALLATION.

7.5 ALL PIPING AND COMPONENTS NECESSARY FOR INSTALLATION MAY BE PREFABRICATED. HOWEVER, THE CONTRACTOR MUST BE WILLING TO REWORK THE PREFABRICATED PIPE, FITTINGS, AND THE LIKE, AS NECESSARY TO CONSTITUTE A PROPER APPROVED INSTALLATION, EXISTING SITE CONDITIONS NOTWITHSTANDING, AT NO ADDITIONAL COST TO THE OWNER.

7.6 ALL PIPING PASSING THRU' FLOOR CONSTRUCTION SHALL HAVE A SCHEDULE 40 STEEL PIPE SLEEVE INSTALLED AROUND PIPE ONLY. ALL PIPE PASSING THRU WALLS SHALL HAVE A GALVANIZED SHEET METAL OR SCHEDULE 40 STEEL PIPE SLEEVE INSTALLED AROUND THE PIPE. ALL EXPOSED PIPE WHICH PASSES THROUGH A WALL OR CEILING SHALL BE EQUIPPED WITH AN ESCUTCHEON PLATE.

7.7 ALL PIPING SHALL BE INSTALLED TO ALLOW FOR PROPER DRAINING OF ENTIRE SYSTEM PER NFPA-13.

7.8 SCREWED UNIONS SHALL NOT BE PERMITTED ON PIPING LARGER THAN 2 INCHES.

7.9 ALL NEW CONNECTIONS MADE TO AN EXISTING SYSTEM MAIN SHALL BE ACCOMPLISHED WITH A CUT-IN OR TEE FITTING OF EQUAL SIZE TO THAT OF THE EXISTING MAIN.

7.10 FIRE PROTECTION PIPING SHALL BE AS FOLLOWS:

A. (1"-6") STEEL PIPE: ASTM A795; SCHEDULE 40, BLACK
STEEL FITTINGS: ASME B16.5, STEEL FLANGES AND FITTINGS.
CAST IRON FITTINGS: ASME 16.1, FLANGES AND FLANGED FITTINGS; OR ASME B16.4, THREADED FITTINGS.
MALLEABLE IRON FITTINGS: ASME B16.3, THREADED FITTINGS.

B. (2 1/2"-6") STEEL PIPE: ASTM A795; SCHEDULE 40, BLACK.
GROOVED END FITTINGS: ASTM A536 DUCTILE IRON HOUSING TO ENGAGE AND LOCK.
MECHANICAL GROOVED COUPLINGS: DUCTILE IRON HOUSING CLAMPS TO ENGAGE AND LOCK, "C" SHAPED ELASTOMERIC SEALING GASKET, STEEL BOLTS, NUTS, AND WASHERS.

C. (1 1/4"-6") STEEL PIPE: ASTM A135, SCHEDULE 10, BLACK.
STEEL FITTINGS: ASME B16.5, STEEL FLANGES AND FITTINGS.
GROOVED END FITTINGS: ASTM A536 DUCTILE IRON HOUSING TO ENGAGE AND LOCK.
MECHANICAL GROOVED COUPLINGS: DUCTILE IRON HOUSING CLAMPS TO ENGAGE AND LOCK, "C" SHAPED ELASTOMERIC SEALING GASKET, STEEL BOLTS, NUTS, AND WASHERS.

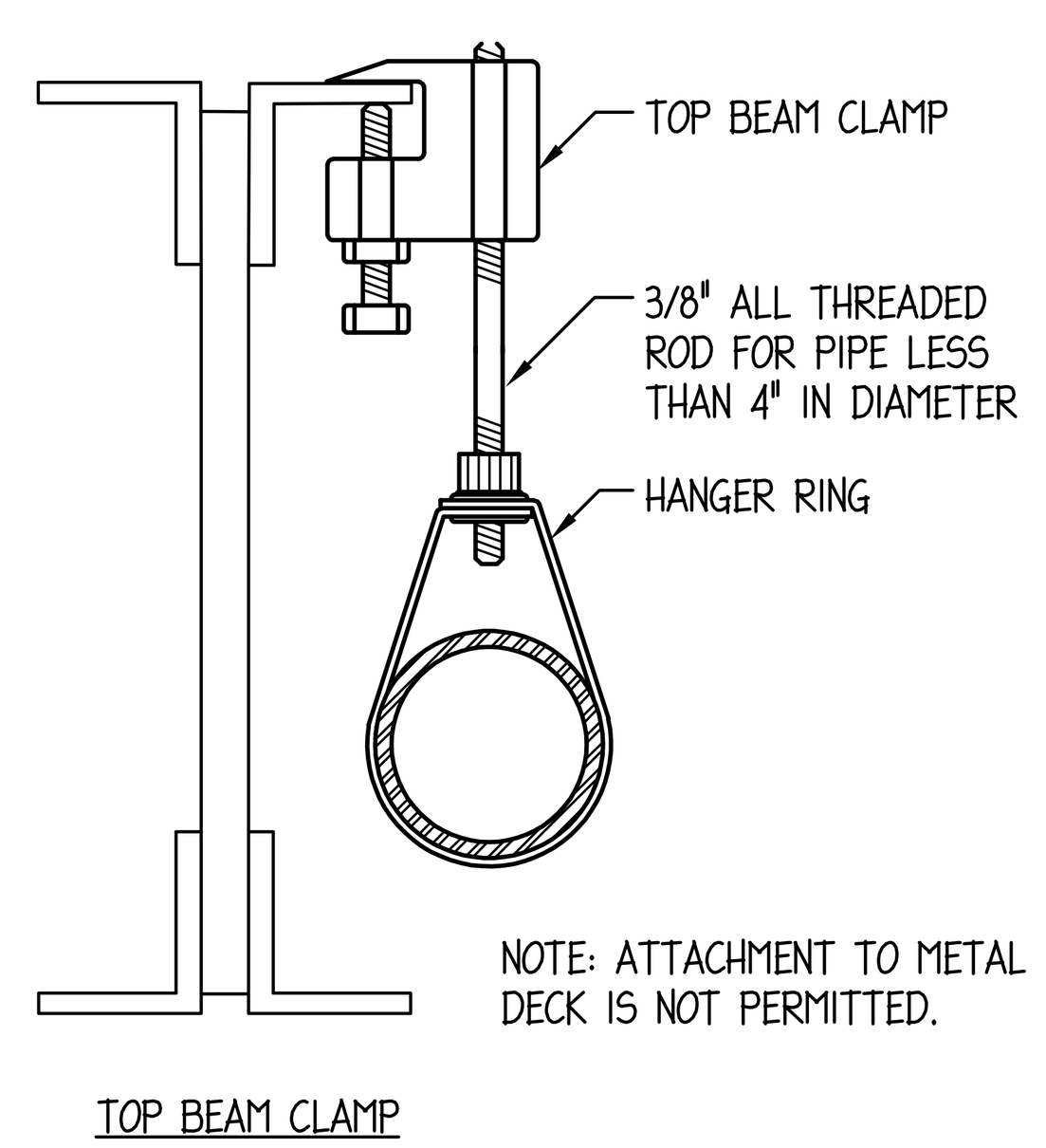
D. CPVC PIPING SHALL NOT BE PERMITTED.

PIPE AND VALVE IDENTIFICATION

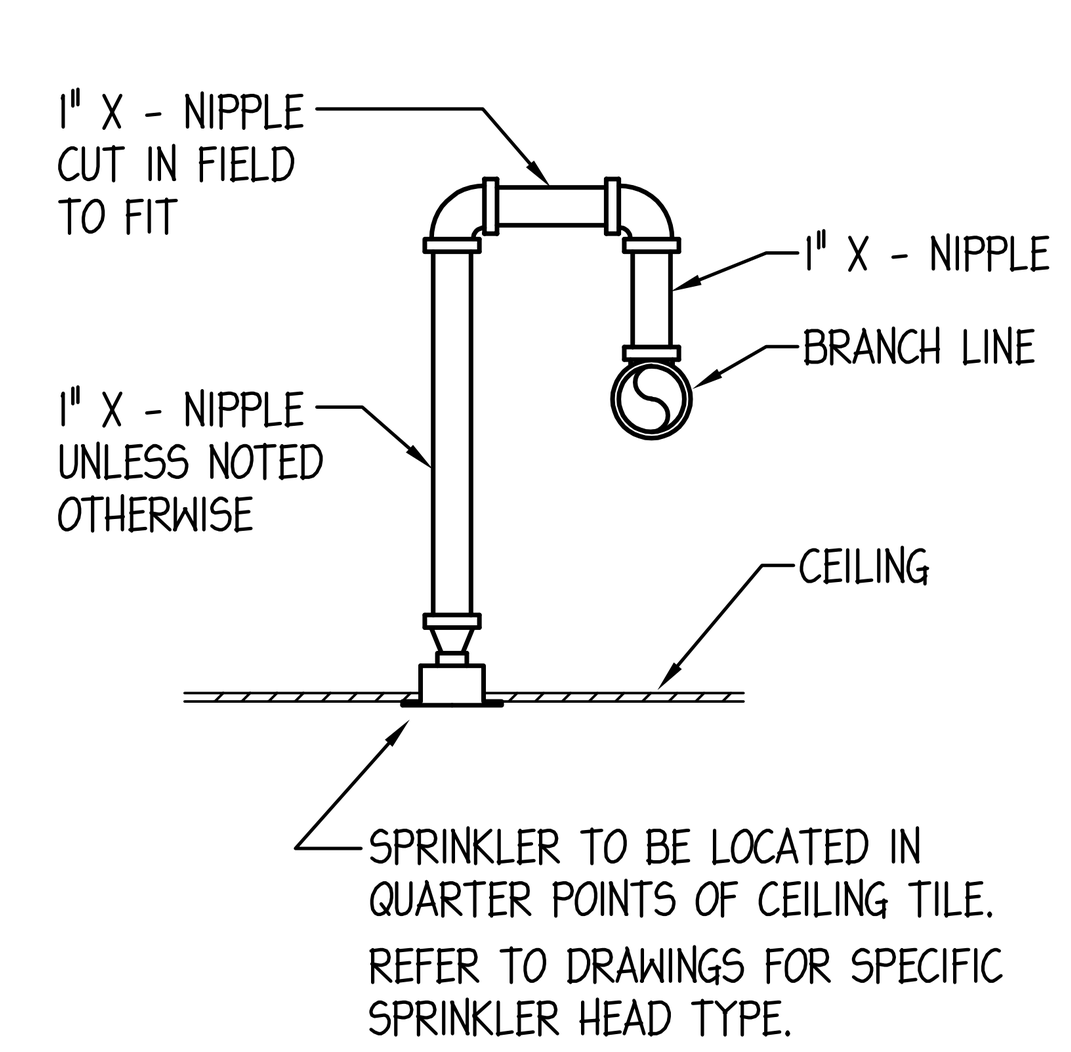
8.1 PROVIDE PIPE LABELING IDENTIFICATION PER ASME A13.1. SEE DETAIL FOR ADDITIONAL INFORMATION. PIPE LABELS SHALL BE WRAP AROUND TYPE. SELF ADHESIVE TYPE SHALL NOT BE PERMITTED.

FIRE STOP SYSTEMS

9.1 GENERAL PURPOSE FIRE STOPPING SEALANT SHALL BE DOW CORNING, NELSON OR 3M COMPANY; WATER BASED, NON SLUMPING, PREMIXED SEALANT WITH INTUMESCENT PROPERTIES, RATED FOR 3 HOURS PER ASTM E814, NFPA AND UL-1479. FILL ALL VOIDS AROUND ALL PIPING PENETRATIONS THROUGH WALLS AND CEILINGS WITH A MINIMUM 1 HOUR FIRE RATING. PROVIDE PVC COLLAR ASSEMBLY AT ALL PVC PIPING PENETRATIONS THROUGH FIRE WALLS, FLOORS OR CEILING WHERE REQUIRED BY LOCAL FIRE DISTRICT.



TYPICAL HANGER DETAIL
NO SCALE



RETURN BEND DETAIL
NO SCALE

BIDDING NOTE:
SEE DRAWING ME1.00 FOR GENERAL NOTES AND ADDITIONAL DETAILS APPLICABLE TO THIS TRADES WORK.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

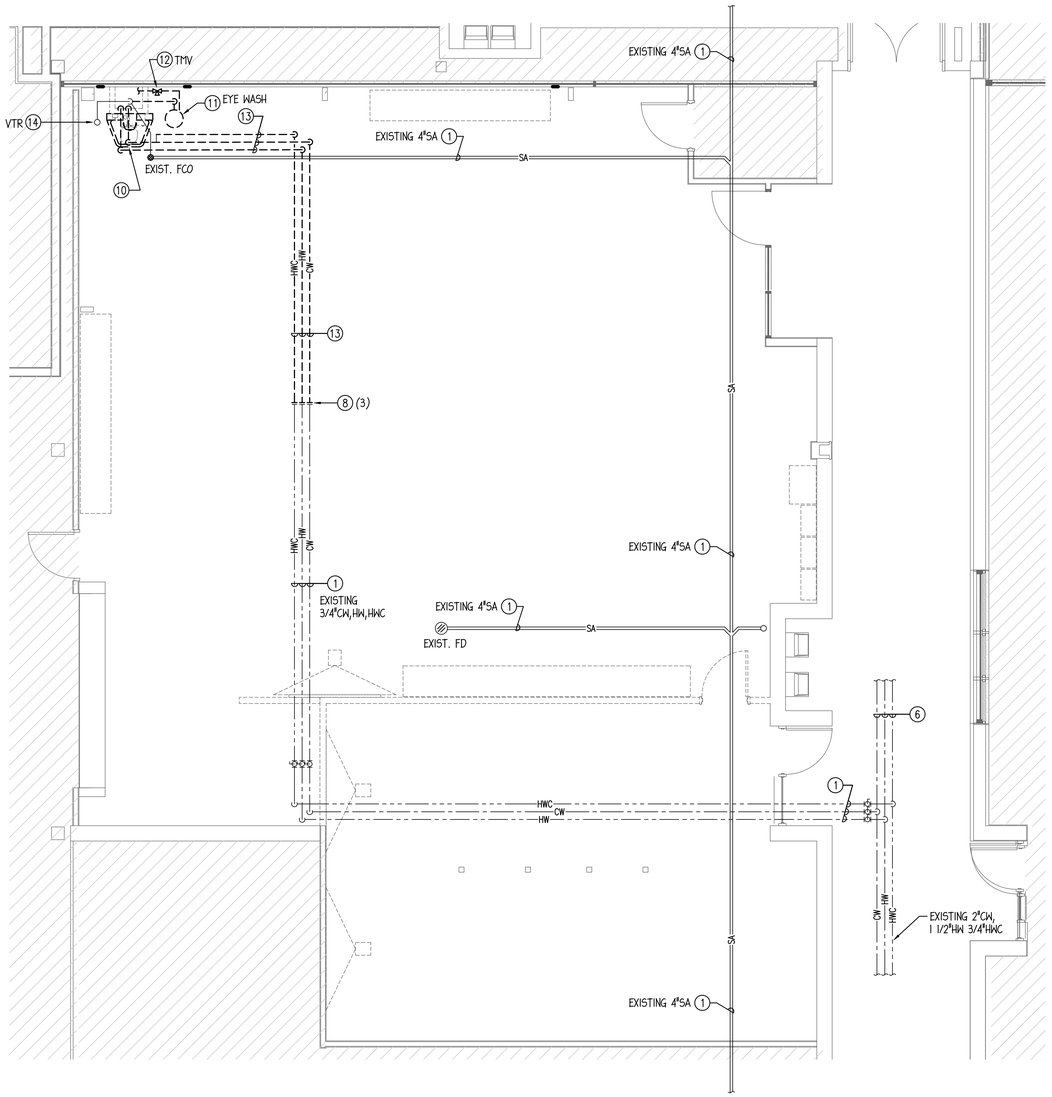
SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

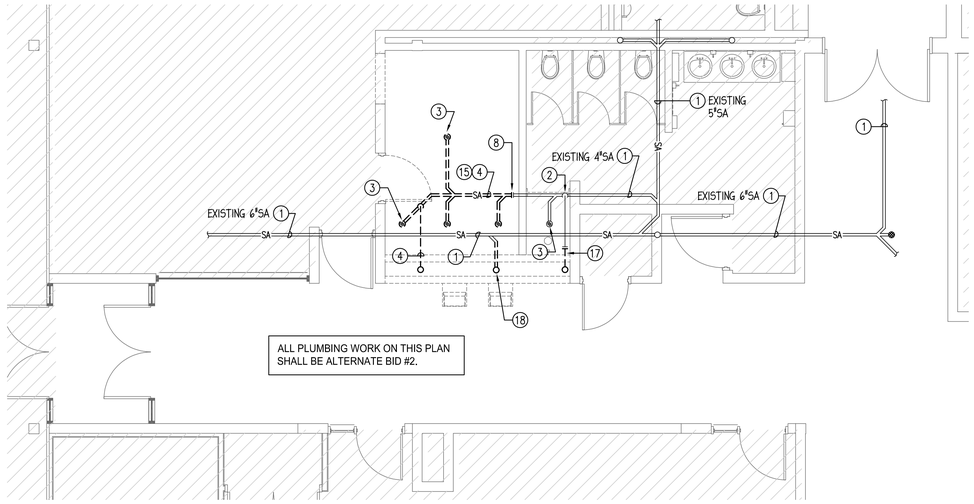
SHEET TITLE:
FIRE PROTECTION GENERAL NOTES

SHEET NUMBER:
FP2.10

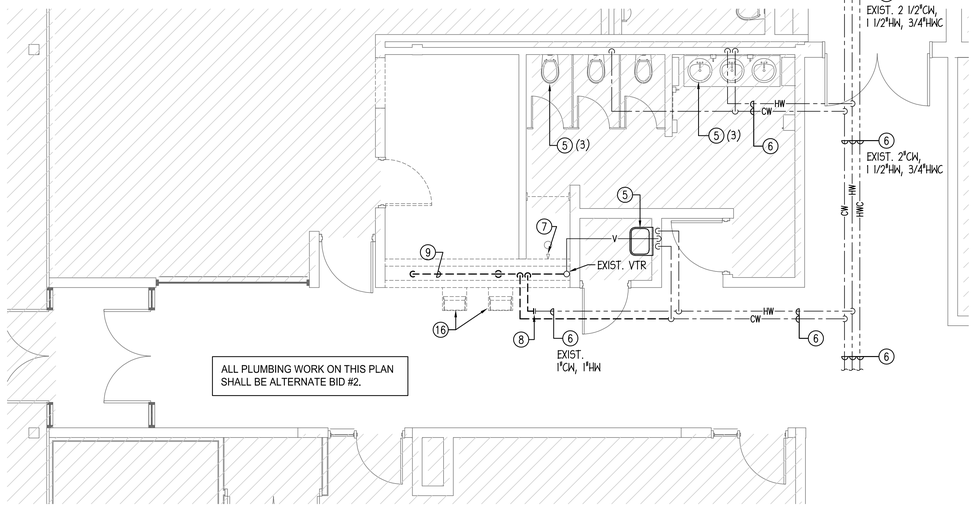
NAME: 1550A25 FP2.10.DWG BY: KDK DATE: Oct. 16, 24 TIME: 10:41 AM



1 DEMO PLAN - EMS
1/4" = 1'-0"



2 DEMO PLAN - TOILET ROOM
1/4" = 1'-0"



3 DEMO PLAN - TOILET ROOM
1/4" = 1'-0"

UNDERFLOOR PIPING AND FLOOR SAW CUTTING NOTES:

1. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR FLOOR CUTTING AND PATCHING OF EXISTING FLOOR TO ACCOMMODATE DEMOLITION AND NEW UNDERGROUND PIPING SHOWN UNDER EXISTING FLOORS.

2. ALL EXISTING PIPING INFORMATION SHOWN ON THIS DRAWING HAS BEEN OBTAINED FROM OWNER'S EXISTING CONSTRUCTION DOCUMENTS AND LIMITED FIELD SURVEY. EXACT LOCATION OF EXISTING UNDERGROUND SANITARY, VENT STORM PIPING ALL PIPE SIZES SHALL BE FIELD VERIFIED BEFORE STARTING INSTALLATION. FOR UNDERGROUND PIPING, CONTRACTOR SHALL FIELD VERIFY EXISTING PIPE LOCATIONS, CONNECTION LOCATION, SIZE, DIRECTION OF FLOW, AND DEPTH VIA PIPE LOCATING/TELEVISING EQUIPMENT PRIOR TO SAW CUTTING OF FLOOR OR BEGINNING WORK.

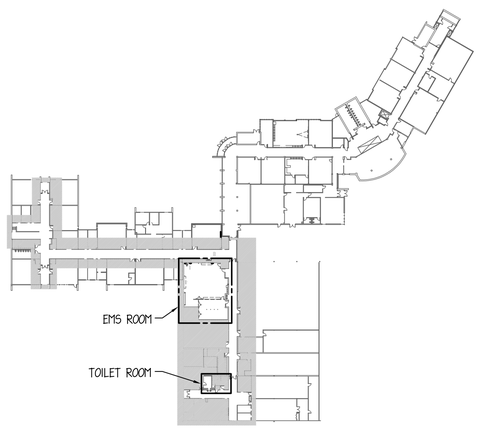
3. WHEN SAW CUTTING THE FLOOR, CONTRACTOR SHALL USE CAUTION TO PREVENT CUTTING OF ANY UNDERFLOOR UTILITIES. CONTRACTOR SHALL VERIFY ALL EXISTING UNDERFLOOR UTILITIES PRIOR TO CUTTING OF FLOOR VIA X-RAY FLOOR SCANNING EQUIPMENT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR ANY DAMAGES TO THE EXISTING UNDERFLOOR UTILITIES OCCURRED DURING CONSTRUCTION AT NO COST TO THE OWNER.

4. DRILL AND DOWEL EXISTING CONCRETE FOR #4 ROD AT 16" O.C.. #4 ROD TO BE 12" LONG WITH 6" PROJECTION INTO EXISTING CONCRETE. REPLACE WITH 5" CONCRETE SLAB INFILL WITH ONE LAYER 6X6-8/8 WWF 1" CLR TO TOP ON 30 MIL. VAPOR BARRIER OVER COMPACTED GRANULAR FILL - TYPICAL. (FIELD VERIFY EXISTING SLAB THICKNESS) EXERCISE CARE SO AS NOT TO UNDERMINE OR DISTURB BUILDING FOUNDATIONS OR REMAINING SLAB ON GRADE. SLOPE EXCAVATIONS AS REQUIRED TO GRADUALLY REACH THE ELEVATIONS.

5. WHERE UNDERGROUND PIPING IS TO BE DISCONNECTED OR REMOVED, PIPING SHALL BE CAPPED AT MAIN PER IDPH REQUIREMENTS.

DRAWING NOTES:

1. EXISTING UNDERFLOOR PLUMBING PIPING TO REMAIN.
2. DISCONNECT EXISTING UNDERFLOOR PIPING AT THIS LOCATION, REMOVE PIPING SHOWN DASHED BEYOND THIS POINT.
3. REMOVE EXISTING FLOOR DRAIN, REMOVE ASSOCIATED PIPING SHOWN DASHED BACK TO LOCATION SHOWN.
4. REMOVE EXISTING UNDERFLOOR PLUMBING PIPING SHOWN DASHED.
5. EXISTING PLUMBING FIXTURE TO REMAIN.
6. EXISTING SUSPENDED PLUMBING PIPING TO REMAIN.
7. REMOVE EXISTING SHOWER VALVE,SRAY HEAD, ETC. REMOVE ALL ASSOCIATED WATER SUPPLY PIPING BACK TO MAIN AND CAP AT MAIN WHERE APPLICABLE.
8. NEW CONNECTION TO BE MADE AT THIS LOCATION, DISCONNECT AND REMOVE PIPING SHOWN DASHED BEYOND THIS POINT.
9. REMOVE VENT PIPING BACK TO MAIN AND CAP.
10. REMOVE EXISTING WASH FOUNTAIN, REMOVE ALL ASSOCIATED CW,HW SHOWN DASHED BACK TO LOCATION SHOWN, EXISTING DWV RISER SERVING FIXTURE TO REMAIN ACTIVE. CAP ALL UNUSED CONNECTIONS.
11. REMOVE EXISTING EYE WASH, REMOVE ALL ASSOCIATED CW,HW SHOWN DASHED BACK TO LOCATION SHOWN, EXISTING DWV RISER SERVING FIXTURE TO REMAIN ACTIVE. CAP ALL UNUSED CONNECTIONS.
12. REMOVE EXISTING TMV SERVING EYE WASH, REMOVE ALL ASSOCIATED CW,HW SHOWN DASHED BACK TO LOCATION SHOWN.
13. REMOVE EXISTING SUSPENDED PLUMBING PIPING SHOWN DASHED.
14. DISCONNECT VENT PIPING BELOW ROOF DECK FOR REPLACEMENT PER NEW WORK PLAN.
15. SAW CUT AND PATCH EXISTING FLOOR AS REQUIRED TO ACCOMMODATE UNDERGROUND PIPING AS SHOWN. REFER TO "UNDERFLOOR PIPING AND FLOOR SAW CUTTING NOTES" THIS SHEET FOR ADDITIONAL INFORMATION.
16. REMOVE EXISTING ELEC WATER COOLER, REMOVE ALL ASSOCIATED CW, SA AND VENT PIPING BACK TO MAIN.
17. REMOVE EXISTING VENT RISER TO BELOW FLOOR, REMOVE PIPING BACK TO A POINT WHERE IT CAN BE EXTENDED PER NEW WORK PLAN.
18. REMOVE EXISTING SANITARY RISER TO BELOW FLOOR, REMOVE PIPING BACK TO A POINT WHERE IT CAN BE EXTENDED PER NEW WORK PLAN.



K KEY PLAN
NO SCALE

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

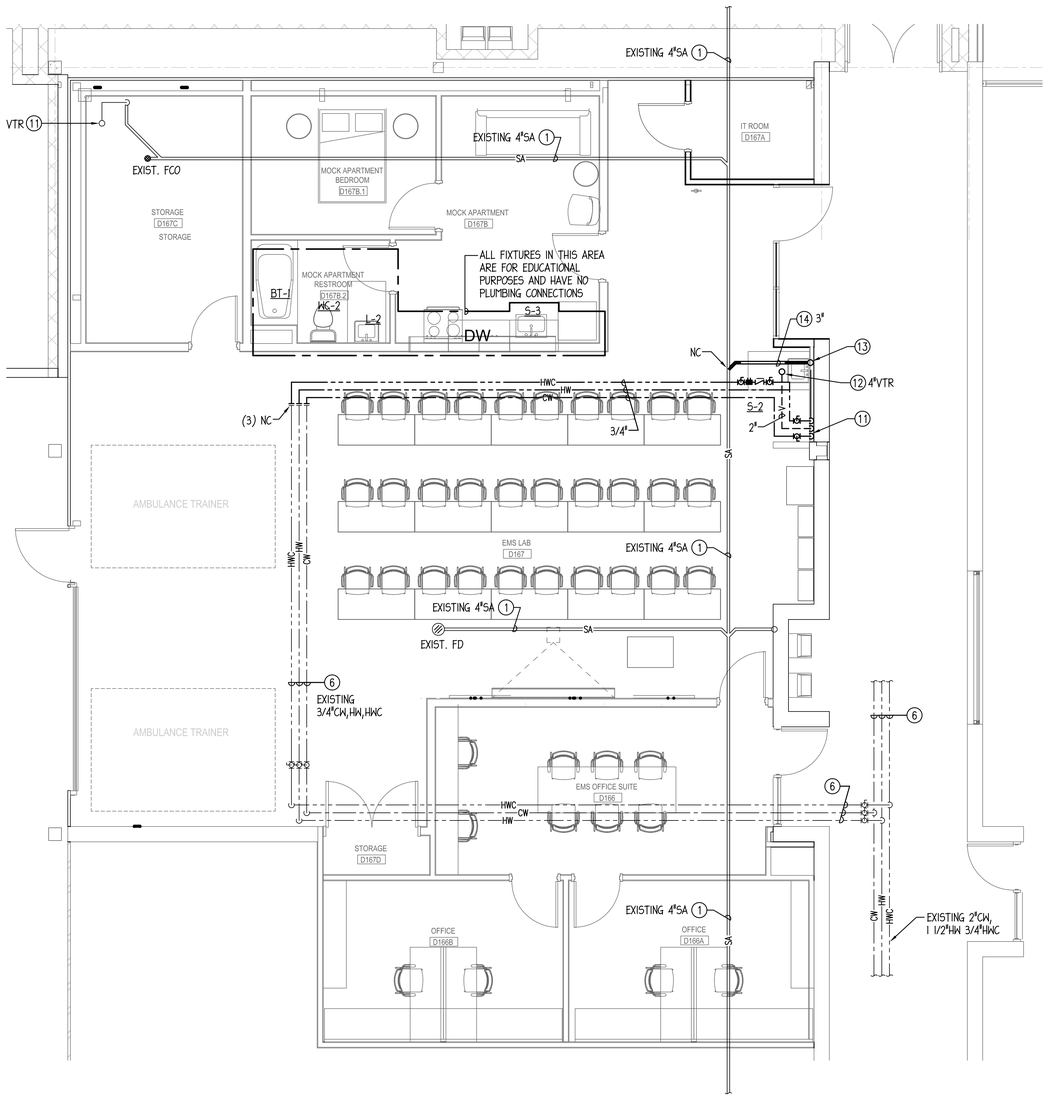
SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

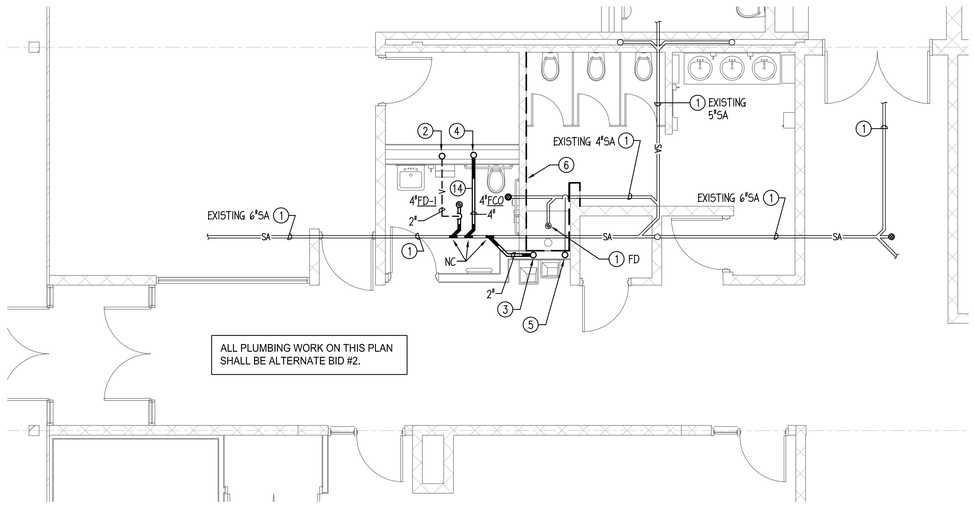
SHEET TITLE:
FIRST FLOOR PLUMBING DEMOLITION PLANS

SHEET NUMBER:
PD1.11

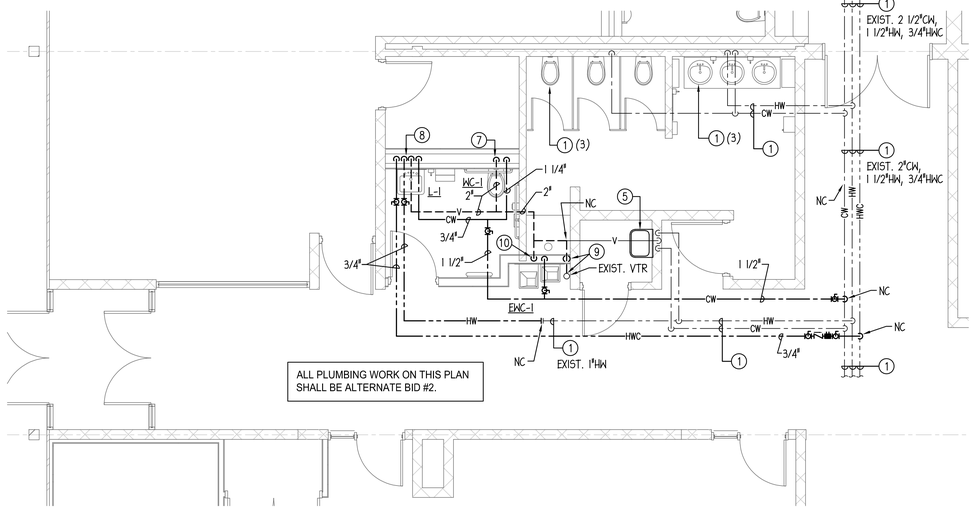
NAME: I:\SOA\25 PD\1.DWG BY: KDK DATE: Oct. 16, 24 TIME: 1:45 PM



1 PLUMBING PLAN - EMS
1/4" = 1'-0"



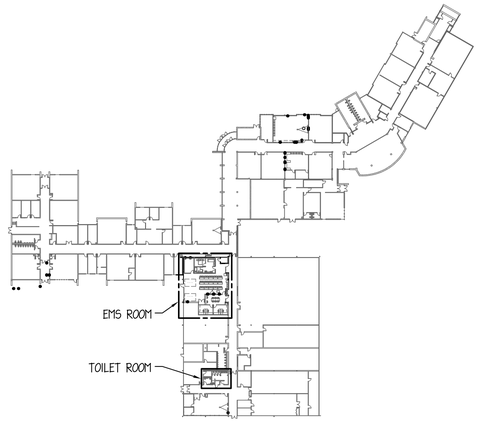
2 PLUMBING PLAN - TOILET
1/4" = 1'-0"



3 PLUMBING PLAN - TOILET
1/4" = 1'-0"

DRAWING NOTES:

1. EXISTING PLUMBING FIXTURE OR PIPING TO REMAIN.
2. 2"V UP IN WALL.
3. 2"SA UP IN WALL.
4. 4"SA UP IN CHASE.
5. REROUTE UNDERGROUND EXISTING VENT RISER TO ALIGN TO NEW WALL.
6. EXISTING FLOOR WITHIN TOILET ROOM SHALL REMAIN IN PLACE AND UNDISTURBED.
7. 2"V & 1 1/4"CW DOWN IN CHASE.
8. 3/4"CW, 3/4"HW, 3/4"HWC, 2"V DOWN IN WALL.
9. NEW VENT RISER IN WALL, RECONNECT TO EXIST. VTR.
10. 3/4"CW AND 2"V DOWN IN WALL.
11. 3/4"CW, 3/4"H & 2"V DOWN ALONG WALL, ROUTE AROUND EXISTING VENT AT WALL, ROUTE PIPIN DOWN INTO NEW WALL.
12. NEW VENT THRU ROOF AT EXISTING ROOF.
13. 3"SA UP IN WALL.
14. SAW CUT AND PATCH EXISTING FLOOR AS REQUIRED TO ACCOMMODATE NEW UNDERGROUND PIPING AS SHOWN. REFER TO "UNDERFLOOR PIPING AND FLOOR SAW CUTTING NOTES" ON SHEET PD1.10 FOR ADDITIONAL INFORMATION.



K KEY PLAN
NO SCALE

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010 F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
FIRST FLOOR PLUMBING PLANS

SHEET NUMBER:
P1.11

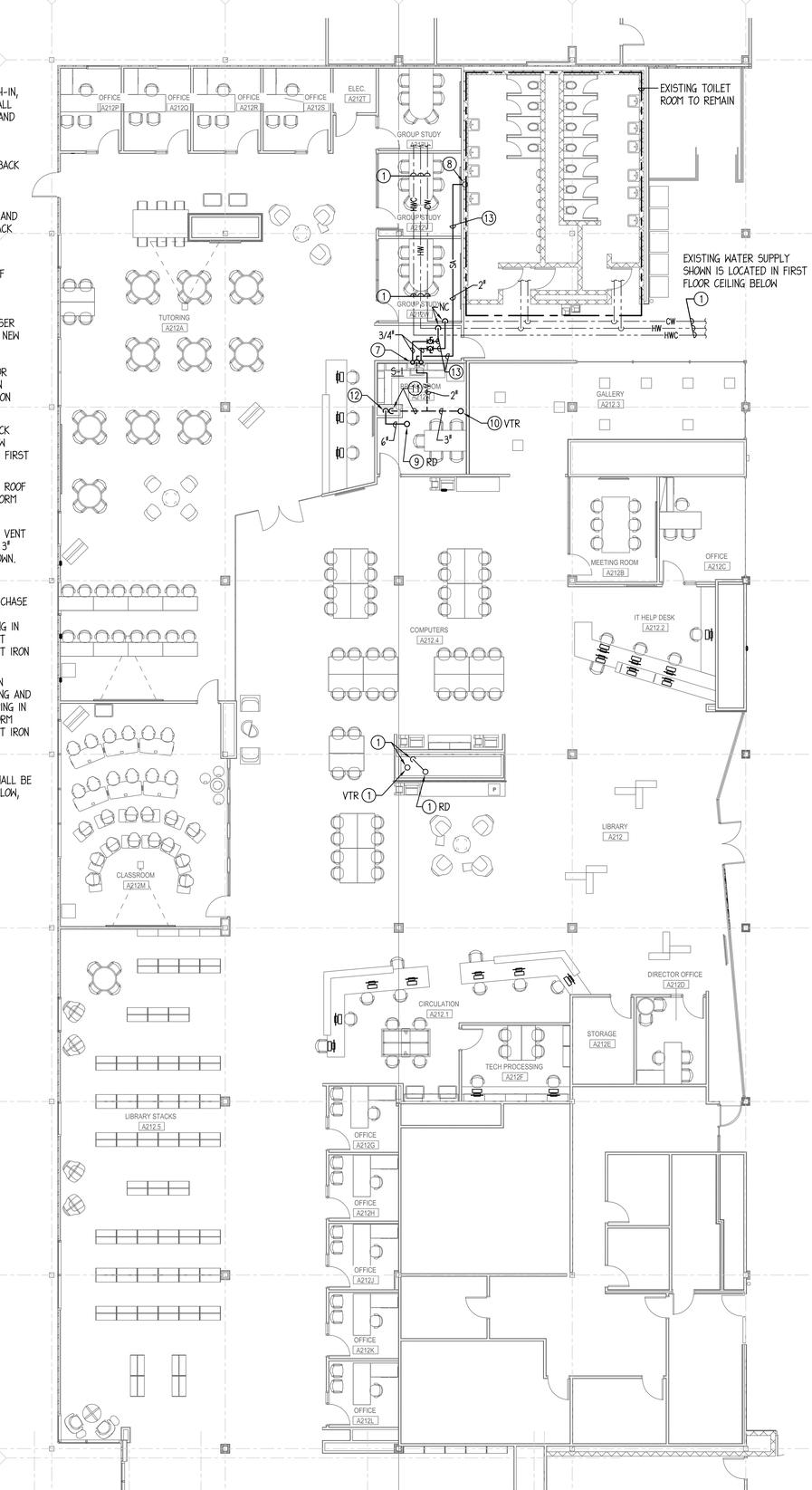
NAME: 1550AD5 P1.11.DWG BY: KDK DATE: OCT. 16, 24 TIME: 1:43 PM

DRAWING NOTES:

1. EXISTING PLUMBING PIPING TO REMAIN.
2. REMOVE EXISTING SINK, REMOVE ROUGH-IN, REMOVE EXIST CW,HW,SA & VENT IN WALL BACK TO ADJACENT PLUMBING CHASE AND CAP PIPING.
3. REMOVE CW,HW & SA PIPING TO FLOOR BELOW. REMOVE ALL BRANCH PIPING BACK TO MAIN AND CAP AT MAIN.
4. EXISTING ROOF DRAIN TO REMAIN, DISCONNECT AT BODY OF ROOF DRAIN AND REMOVE ASSOCIATED STORM PIPING BACK TO CHASE.
5. EXISTING VENT THRU ROOF (VTR) TO REMAIN, DISCONNECT JUST BELOW ROOF DECK AND REMOVE ASSOCIATED VENT PIPING BACK TO CHASE.
6. REMOVE EXISTING 6"ST AND 3"VENT RISER TO FLOOR BELOW FOR REROUTING PER NEW WORK PLAN.
7. 3/4"CW/HW & 2"SA FROM FIRST FLOOR CEILING, UP IN WALL TO FIXTURE ON SECOND FLOOR, 2"V DOWN IN WALL ON SECOND FLOOR.
8. FIELD LOCATE EXISTING WASTE STACK SERVING LAVATORIES AND MAKE NEW CONNECTION TO EXISTING WASTE AT FIRST FLOOR CEILING.
9. MAKE NEW CONNECTION TO EXISTING ROOF DRAIN BODY AND ROUTE NEW 6" STORM PIPING TO NEW CHASE AS SHOWN.
10. MAKE NEW CONNECTION TO EXISTING VENT THRU ROOF (VTR) AND ROUTE NEW 3" VENT PIPING TO NEW CHASE AS SHOWN.
11. ROUTE NEW 3" VENT PIPING IN NEW CHASE DOWN TO FIRST FLOOR CEILING AND RECONNECT TO EXISTING VENT PIPING IN FIRST FLOOR CEILING, ALL NEW VENT PIPING IN THIS AREA SHALL BE CAST IRON PIPING.
12. ROUTE NEW 6" STORM PIPING IN NEW CHASE DOWN TO FIRST FLOOR CEILING AND RECONNECT TO EXISTING STORM PIPING IN FIRST FLOOR CEILING, ALL NEW STORM PIPING IN THIS AREA SHALL BE CAST IRON PIPING.
13. NEW CW, HW AND SANITARY PIPING SERVING SINK ON SECOND FLOOR SHALL BE ROUTED IN FIRST FLOOR CEILING BELOW,



1 PLUMBING DEMO PLAN - LIBRARY
1/8" = 1'-0"



1 PLUMBING PLAN - LIBRARY
1/8" = 1'-0"

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LIBRARY PLUMBING PLANS

SHEET NUMBER:
P1.20

NAME: I550A25 P1.1LDWG BY: KOK DATE: Oct. 16, 24 TIME: 10:45 AM

PLUMBING SPECIFICATIONS

GENERAL

1.1 ALL WORK SHALL BE INSTALLED AND ALL MATERIALS SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS OF ILLINOIS DEPARTMENT OF PUBLIC HEALTH ILLINOIS PLUMBING CODE 2014 EDITION AND ALL LOCAL AMENDMENTS TO THE PLUMBING CODE.

1.2 IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE ALL INSPECTIONS WITH THE LOCAL PLUMBING INSPECTOR HAVING JURISDICTION.

1.3 EXACT LOCATION OF PLUMBING FIXTURES AND DEVICES SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS, ACTUAL BUILDING WALLS, FLOORS AND CEILING, CABINETRY AND EQUIPMENT SHOP DRAWINGS PRIOR TO STARTING ANY WORK.

1.4 DRAWINGS ARE GENERALLY DIAGRAMMATIC. ROUTING OF PIPING, ETC., AS SHOWN ON DRAWINGS, DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS, SUCH AS OFFSETS, BENDS OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN COMPLETION DATE OF THE PROJECT.

1.5 STERILIZATION: ALL NEW, ALTERED OR REPAIRED POTABLE WATER PIPING SHALL BE DISINFECTED, STERILIZED AND FLUSHED PER THE REQUIREMENTS OF THE ILLINOIS STATE PLUMBING CODE 2014 EDITION, SECTIONS 890.1180(a) AND 890.1180(b)(3). CONTRACTOR SHALL STERILIZE AND FLUSH ALL WATER PIPING INCLUDING ALL DOMESTIC HOT WATER SUPPLY AND RETURN AND ALL DOMESTIC COLD WATER PIPING. CONTRACTOR SHALL FURNISH AND INSTALL ALL TEMPORARY TAPPINGS, VALVE OPENINGS, DRAIN FITTINGS, ETC. AS REQUIRED TO STERILIZE AND FLUSH THE WATER SUPPLY PIPING.

1.6 ALL EXISTING PIPING INFORMATION SHOWN ON THIS DRAWING HAS BEEN OBTAINED FROM OWNER'S EXISTING CONSTRUCTION DOCUMENTS AND LIMITED FIELD SURVEY. EXACT LOCATION OF EXISTING SANITARY/STORM LINES, WATER LINES, VENT LINES, VALVES AND ALL PIPE SIZES SHALL BE FIELD VERIFIED BEFORE STARTING INSTALLATION.

1.7 PLUMBING CONTRACTOR SHALL PROVIDE STACK TEST ON ALL ROUGH AND UNDERGROUND PLUMBING PER ILLINOIS PLUMBING CODE.

1.8 PLUMBING CONTRACTOR SHALL PROVIDE PRESSURE TEST ON ALL ABOVE GROUND SANITARY AND VENT PIPING PER ILLINOIS PLUMBING CODE.

1.9 PLUMBING CONTRACTOR SHALL PROVIDE 100LB AIR TEST OR WATER PRESSURE TEST ON ALL WATER PIPING AT TIME OF ROUGH INSPECTION PER ILLINOIS PLUMBING CODE.

1.10 DEAD END PIPING BEYOND 24 INCHES IN WATER SUPPLY PIPING SHALL NOT BE PERMITTED. DEAD END PIPING BEYOND 10 FEET OF NEAREST VENTED SANITARY PIPING WILL NOT BE PERMITTED PER I.D.P.H. SECTION 890.1320.

PIPE INSULATION

2.1 ALL DOMESTIC COLD WATER AND DOMESTIC HOT WATER SUPPLY/RETURN PIPING SHALL BE INSULATED WITH ASTM C547 FIBERGLASS PIPE INSULATION WITH ASTM C1136 VAPOR BARRIER JACKET COMPLETE WITH PVC FITTING COVERS. ALL COLD WATER PIPING SHALL BE INSULATED WITH 1" THICK INSULATION. ALL DOMESTIC HOT WATER AND RECIRC PIPING 1 1/4" AND SMALLER SHALL BE INSULATED WITH 1" INSULATION. ALL DOMESTIC HOT WATER AND RECIRC PIPING 1 1/2" AND LARGER SHALL BE INSULATED WITH 1 1/2" THICK INSULATION. INSULATE ALL DOMESTIC WATER SUPPLY PIPING TO THE FIXTURE CONNECTION. INSULATE ALL WATER SUPPLY PIPING IN CEILINGS, PLUMBING CHASES AND WALLS.

2.2 PATCH AND REFINISH ALL DAMAGED INSULATED SURFACES OF ALL EXISTING PLUMBING PIPING AND ASSOCIATED FITTINGS WHERE NEW CONNECTIONS ARE MADE. INCLUDING BUT NOT LIMITED DOMESTIC COLD WATER, HOT WATER SUPPLY/RETURN AND WASTE.

PIPE HANGERS AND SUPPORTS

3.1 ALL SANITARY, VENT, STORM, DOMESTIC SUPPLY AND RETURN PIPING SHALL BE SUSPENDED WITH CLEVIS AND/OR TRAPEZE PIPE HANGERS. ALL HORIZONTAL STORM, DOMESTIC SUPPLY AND RETURN PIPING SHALL BE INSULATED AND REST ON SHEET METAL INSULATION SHIELDS. SEE DETAIL ON MECHANICAL/ELECTRICAL COORDINATION DRAWINGS FOR ADDITIONAL INFORMATION. SWIVEL JOINT HANGERS MAY BE USED ONLY ON WASTE AND VENT PIPING WHEN PIPING IS NOT INSULATED. HANGER MATERIAL SHALL BE OF COMPATIBLE MATERIAL TO PIPING MATERIAL TO PREVENT CORROSION. HANGERS SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS ONLY.

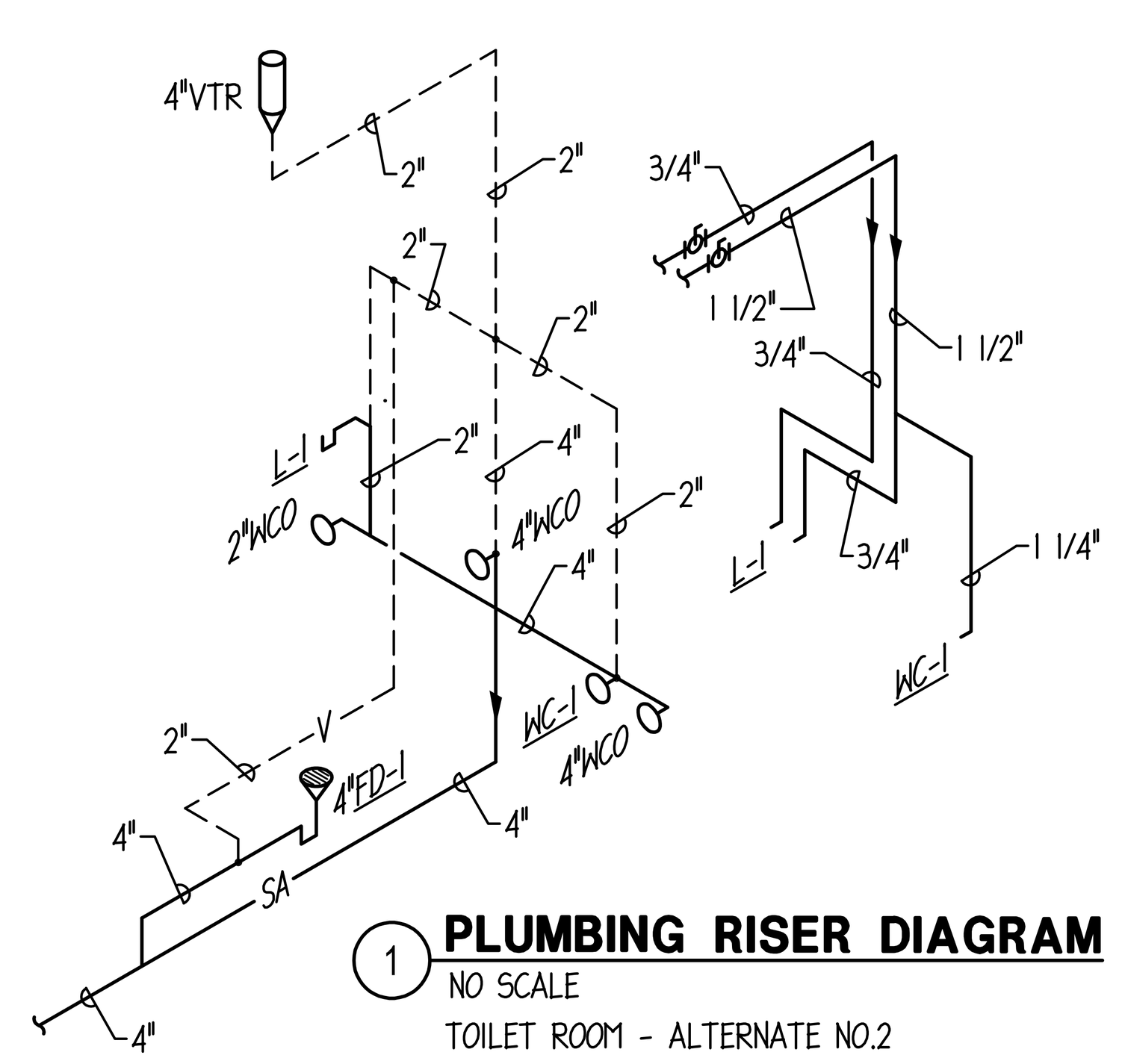
3.2 VERTICAL ATTACHMENT TO METAL DECK AND WOOD TRUSS'S SHALL NOT BE PERMITTED. HORIZONTAL ATTACHMENT TO WOOD TRUSS SHALL BE MADE BY HORIZONTAL SUPPORT TO BOTTOM CORD OF TRUSS.

3.3 HANGER SPACING SHALL BE AS FOLLOWS.

PIPE MATERIAL	MAX HANGER SPACING	ROD DIAMETER
CAST IRON (ALL SIZES)	5 FEET	5/8"
CAST IRON (ALL SIZES) WITH 10 FOOT LENGTH OF PIPE	10 FEET	5/8"
COPPER TUBE, 1 INCH AND SMALLER	8 FEET	1/2"
COPPER TUBE, 1 1/4 INCH AND LARGER	10 FEET	1/2"
PVC (ALL SIZES)	4 FEET	3/8

PIPE AND VALVE IDENTIFICATION

4.1 PROVIDE PIPE LABELING IDENTIFICATION PER ASME A13.1. SEE DETAIL FOR ADDITIONAL INFORMATION.



1 **PLUMBING RISER DIAGRAM**
NO SCALE
TOILET ROOM - ALTERNATE NO.2

VALVES

5.1 PLUMBING CONTRACTOR SHALL PROVIDE ALL REQUIRED ISOLATION VALVES PER I.D.P.H. SECTION 890.1190. VALVES SHALL BE INSTALLED TO ISOLATE ONE ROOM WITHOUT AFFECTING WATER SUPPLY TO ANY OTHER ROOM.

5.2 BALL VALVES SHALL BE MILWAUKEE, NIBCO, STOCKHAM, APOLLO, KITZ, WATTS, OR JOMAR; LEAD FREE NSF-61 CERTIFIED, WITH BRONZE TWO PIECE BODY, STAINLESS STEEL STEM AND BALL, TEFLON SEATS AND STUFFING BOX RING, LEVER HANDLE, SOLDER ENDS, FULL PORT AND CONFORM TO MSS SP-110. WHEN PRESS FITTINGS ARE USED, VIEGA OR NIBCO SHALL BE AN ACCEPTABLE MANUFACTURER OF BALL VALVES.

5.3 INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED.

5.4 INSTALL VALVES WITH CLEARANCE FOR INSTALLATION OF INSULATION AND ALLOWING ACCESS.

5.5 PROVIDE ACCESS TO ALL VALVES AND SYSTEM COMPONENTS REQUIRING ACCESS. ALL PIPING ACCESSORIES AND EQUIPMENT SUCH AS ISOLATION VALVES AND IN-LINE PUMPS SHALL BE INSTALLED AT A REASONABLE HEIGHT AND POSITION IN ORDER TO FACILITATE MAINTENANCE.

WATER SHUT-DOWN

6.1 CONTRACTOR SHALL PROVIDE ALL MEANS TO SHUT-DOWN EXISTING PIPING SYSTEMS WHERE REQUIRED TO COMPLETE WORK UNDER THIS CONTRACT. CONTRACTOR SHALL PROVIDE ALL NECESSARY VALVES TO ISOLATE RENOVATED SECTIONS OF THE BUILDING WITHOUT DISTURBING SECTIONS OF THE BUILDING NOT UNDER RENOVATION. CONTRACTOR SHALL PROVIDE ALL MEANS TO DRAIN WATER SUPPLY PIPING WHERE REQUIRED TO MODIFY PIPING CONFIGURATION OR MAKE NEW CONNECTIONS TO EXISTING PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WATER DAMAGE CAUSED BY DRAINING OF WATER SUPPLY PIPING. UPON REACTIVATION OF WATER IN PIPING, CONTRACTOR SHALL OPERATE ALL ASSOCIATED FAUCETS, FLUSH VALVES, HOSE VALVES, PLUMBING FIXTURES AND REMOVE ALL REMAINING AIR IN THE SYSTEM.

PIPE ROUTING AND REPLACEMENT

7.1 PIPE SIZES INDICATED ON DRAWINGS ARE MINIMUMS. CONTRACTOR SHALL MATCH PIPE SIZE WHEN CONNECTING TO EXISTING PIPING LARGER THAN SIZED LISTED.

7.2 NEW PIPING SHALL NOT BE PERMITTED OVER ANY ELECTRICAL PANELS OR EQUIPMENT.

7.3 NEW PIPE ROUTING SHALL NOT INTERFERE WITH NORMAL MAINTENANCE OPERATION OF EXISTING EQUIPMENT, ACCESS PANELS, DUCTWORK ACCESS PANELS, DUCTWORK ACCESSORIES, AND ALL HVAC AND ELECTRICAL EQUIPMENT.

7.4 ALL PIPING, FITTINGS AND JOINTS SHALL COMPLY WITH THE STATE AND LOCAL AMENDMENTS AND THE AUTHORITY HAVING JURISDICTION. MATERIALS LISTED IN THE SPECIFICATION THAT DO NOT COMPLY WITH THESE AMENDMENTS SHALL NOT BE USED IN THE BIDDING PROCESS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE ADOPTED AMENDMENTS.

7.5 WATER SUPPLY PIPING SIZES SHOWN ON DRAWING ARE BASED ON COPPER PIPING. SANITARY, VENT AND STORM PIPING SIZES SHOWN ARE BASED ON CAST IRON PIPING. INNER DIAMETERS SHALL BE REVIEWED WITH IDPH STATE PLUMBING INSPECTOR PRIOR TO INSTALLATION AND SHALL BE OF SUFFICIENT SIZE TO PROVIDE ADEQUATE FLOW AT MINIMAL PRESSURE DROP TO INSURE PLUMBING FIXTURES OPERATE TO OWNER'S SATISFACTION.

SHOP DRAWINGS, SUBMITTALS AND CLOSE OUT DOCUMENTS

8.1 CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES IN PDF FORMAT SHOP DRAWINGS OF ALL PIPING, VALVES, PIPE HANGERS, PIPE INSULATION, MISC DEVICES, PUMPS, MIXING VALVES, PLUMBING FIXTURES, ACCESS PANELS, EQUIPMENT, TO ENGINEER FOR APPROVAL PRIOR TO ORDERING ANY ITEMS OR FABRICATING ANY DUCTWORK. SUBMITTALS SHALL BE RETURNED WITHIN TEN BUSINESS DAYS.

8.2 AT COMPLETION OF PROJECT, CONTRACTOR SHALL SUBMIT PDF FORMAT OF OPERATION AND MAINTENANCE MANUALS FOR ALL WORK PROVIDED BY HIM ON PROJECT. MANUALS SHALL BE CLEARLY ORGANIZED AND CONTAIN COPIES OF APPROVED EQUIPMENT, COMPONENT BREAK-DOWN AND PARTS LISTS, MAINTENANCE/CLEANING AND TROUBLESHOOTING MANUALS, SERVICE CONTACTS, CONTRACTOR AND MANUFACTURER WARRANTEES, AND "AS BUILT" FLOOR PLANS INDICATING ALL APPROVED DEVIATIONS AND REVISIONS TO BIDDING DOCUMENTS.

PIPE SPECIFICATIONS

PLUMBING PIPING SHALL BE AS FOLLOWS:

SANITARY SEWER AND VENT PIPING, BURIED WITHIN 5 FEET OF BUILDING

A. CAST IRON PIPE: ASTM A74 SERVICE WEIGHT.
FITTINGS: CAST IRON.
JOINTS: HUB-AND-SPIGOT, CISPI HSN COMPRESSION TYPE WITH ASTM C564 NEOPRENE GASKETS OR LEAD AND OAKUM.

B. PLASTIC PIPE: ASTM D2665, POLYVINYL CHLORIDE (PVC) MATERIAL.
FITTINGS: PVC, ASTM D2665.
JOINTS: ASTM D2855 SOLVENT WELD WITH ASTM D2564 SOLVENT CEMENT.

SANITARY AND VENT PIPING, ABOVE GRADE

A, CAST IRON PIPE: CISPI 301, HUBLESS, SERVICE WEIGHT.
FITTINGS: CAST IRON.
JOINTS: CISPI 310, NEOPRENE GASKETS AND STAINLESS STEEL CLAMP AND SHIELD ASSEMBLIES.

B. PLASTIC PIPE: ASTM D2665, POLYVINYL CHLORIDE (PVC) MATERIAL.
FITTINGS: PVC, ASTM D2665.
JOINTS: ASTM D2855 SOLVENT WELD WITH ASTM D2564 SOLVENT CEMENT.
INSULATE ALL VERTICAL AND HORIZONTAL PIPING FOR SOUND CONTROL.

WATER PIPING, ABOVE GRADE

A. COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN.
FITTINGS: ASME B16.18, CAST COPPER ALLOY OR ASME B16.22, WROUGHT COPPER AND BRONZE.
JOINTS: ASTM B32, SOLDER, GRADE 95TA.

B. COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN.
COPPER PRESS-JOINT FITTINGS: VIEGA PROPRESS; ASME B16.18 CAST COPPER ALLOY, ASME B16.22 WROUGHT COPPER, ASME B16.51 COPPER PRESS-CONNECT PRESSURE FITTINGS, EPDM O-RING AND INTEGRAL LEAK DETECTION. FITTINGS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS. ONLY MANUFACTURERS COMPATIBLE PRESS TOOLS SHALL BE USED.
OTHER ACCEPTABLE MANUFACTURERS: NIBCO, MUELLER PRS STREAMLINE.

STORM PIPING, ABOVE GRADE

A, CAST IRON PIPE: CISPI 301, HUBLESS, SERVICE WEIGHT.
FITTINGS: CAST IRON.
JOINTS: CISPI 310, NEOPRENE GASKETS AND STAINLESS STEEL CLAMP AND SHIELD ASSEMBLIES.

PLUMBING FIXTURE SCHEDULE

PLUMBING FIXTURE TAG	TYPE	MANUFACTURER AND MODEL	DESCRIPTION	OTHER ACCEPTABLE MANUFACTURERS	NOTES
WC-1	WATER CLOSET	BOWL: KOHLER KINGSTON K-4325 FLUSH VALVE: SLOAN VALVE OPTIMA G2 8111-1.28 SEAT: BEMIS 2155-SSCT CARRIER: JR SMITH 0211Y/0221Y (M58 & M54)	BOWL: WALL MOUNTED, SIPHON JET, WHITE, VITREOUS CHINA BOWL WITH ELONGATED BOWL AND 1 1/2" TOP SPUD. CHINA SHALL BE UNIVERSAL FLOW COMPATIBLE AND OPERATE AT 1.28-1.6 GPF. FLUSH VALVE: EXPOSED CHROME PLATED, BATTERY POWERED SENSOR OPERATED, 1.6 GALLONS PER FLUSH, INTEGRAL SCREWDRIVER STOP AND VACUUM BREAKER. SEAT: WHITE, ELONGATED, OPEN FRONT, ANTI-MICROBACTERIAL. CARRIER: A112.6 1M-97, ADJUSTABLE HORIZONTAL CONFIGURATION. 500LB RATING.	BOWL: AMERICAN STANDARD, ZURN, & MANSFIELD FLUSH VALVE: NONE. SEAT: CHURCH, OLSONITE & SPERZAL CARRIER: MIFAB, WADE, ZURN JOSAM, WATTS	1,8
L-1	ADA COMPLIANT LAVATORY	BASIN: KOHLER KINGSTON K-2005 TRIM: SLOAN VALVE MODEL EBF-650 CARRIER: JR SMITH 0700-M32	WHITE VITREOUS CHINA WALL HUNG LAVATORY, 21x18 MINIMUM, 5" HIGH BACK, DRILLINGS ON 4" CENTERS, CONCEALED ARM SUPPORT, RECTANGULAR BASIN WITH SPLASH LIP AND FRONT OVERFLOW. FAUCET: CHROME PLATED, BATTERY POWERED SENSOR OPERATED, 4" CENTERS, 0.5 GPM AERATOR & ADA COMPLIANT. CARRIER: LACQUERED STEEL FRAME WITH LEGS, FEET FOR FLOOR ATTACHMENT, CONCEALED ARMS. FAUCET SHALL HAVE A MINIMUM 3-YEAR WARRANTY.	BOWL: AMERICAN STANDARD, ZURN, & MANSFIELD FAUCET: MOEN COMMERCIAL, T&S BRASS, FAUCET: CHICAGO FAUCET CARRIER: MIFAB, WADE, ZURN JOSAM, WATTS	1,2,3,4,5,6,8
S-1	SINK	BASIN: ELKAY, MODEL LUSTERTONE LRAD252155 TRIM: MOEN COMMERCIAL MODEL 8225	ASME A112.19.3; SINGLE BOWL SELF RIMMING DROP-IN 25"Lx21"W x 5.5"D OVERALL DIMENSIONS, 18 GAUGE THICK, TYPE 304 STAINLESS STEEL. FAUCET SHALL BE CHROME PLATED BRASS SUPPLY WITH 8" SWING SPOUT, WATER ECONOMY AERATOR WITH MAXIMUM 1.5 GPM FLOW RATE, WITH INDEXED WRIST BLADE LEVER HANDLES ON 8" CENTERS, INTERCONNECTING COPPER TUBING CONNECTING FAUCET.	BASIN: JUST, FRANKE, ACORN TRIM: CHICAGO FAUCET, T&S BRASS, ZURN	1,2,4,5,6,7,8
S-2	SINK	BASIN: KOHLER KINGSTON K-2005 TRIM: SLOAN VALVE MODEL EBF-650 CARRIER: JR SMITH 0700-M32	WHITE VITREOUS CHINA WALL HUNG LAVATORY, 21x18 MINIMUM, 5" HIGH BACK, DRILLINGS ON 4" CENTERS, CONCEALED ARM SUPPORT, RECTANGULAR BASIN WITH SPLASH LIP AND FRONT OVERFLOW. FAUCET: CHROME PLATED, BATTERY POWERED SENSOR OPERATED, 4" CENTERS, 0.5 GPM AERATOR & ADA COMPLIANT. CARRIER: LACQUERED STEEL FRAME WITH LEGS, FEET FOR FLOOR ATTACHMENT, CONCEALED ARMS. FAUCET SHALL HAVE A MINIMUM 3-YEAR WARRANTY.	BOWL: AMERICAN STANDARD, ZURN, & MANSFIELD FAUCET: MOEN COMMERCIAL, T&S BRASS, FAUCET: CHICAGO FAUCET CARRIER: MIFAB, WADE, ZURN JOSAM, WATTS	1,2,3,4,5,6,8
FD-1	FLOOR DRAIN	ZURN, MODEL ZN415B	ANSIA112.21.1; LACQUERED CAST IRON BODY WITH DOUBLE DRAINAGE FLANGE, WEEPHOLES, AND SQUARE ADJUSTABLE NICKEL BRONZE STRAINER.	J.R. SMITH, WADE, WATTS, MIFAB	--
TMV-1	THERMOSTATIC MIXING VALVE	LEONARD MODEL 170LF	ASSE 1070; CAST BRASS BODY WITH ROUGH BRONZE FINISH, LOCKING TEMPERATURE REGULATOR, WITH INTEGRAL CHECK VALVES AND INLINE SCREENS ON BOTH INLETS.	POWERS, WATTS, ZURN.	--
FIXTURES FOR MOCK UP APARTMENT					
WC-2	WATER CLOSET	GLACIER BAY MODEL N2428E	FLOOR MOUNTED WHITE TANK TYPE TOILET WITH SEAT	APPROVED EQUAL.	9
BT-1	BATH TUB	TUB: AMERICAN STANDARD MODEL 2394.202.020 SHOWER VALVE: MOEN MODEL 82603	60"x34" WHITE TUB, 14" TALL, WITH CHROME, SHOWER VALVE, TUB SPOUT AND SHOWER HEAD, LEFT/RIGHT ORIENTATION TO BE VERIFIED BY CONTRACTOR.	APPROVED EQUAL.	9
L-2	LAVATORY	BASIN: GLACIER BAY MODEL GB24P2-WH FAUCET: GLACIER BAY MODEL HD67499W-6401	25"x19" WHITE VANITY CABINET WITH WHITE COUNTER TOP AND LAVATORY FAUCET, CHROME, 4" CENTERS QUARTER TURN	APPROVED EQUAL.	9
S-3	SINK	BASIN: GLACIER BAY MODEL VT2522A16 FAUCET: GLACIER BAY MODEL HD67896W-0001	25"x22" STAINLESS STEEL DROP-IN KITCHEN SINK WITH FAUCET, CHROME, 8" TRIM PLATE, SINGLE LEVER, 9" SPOUT.	APPROVED EQUAL.	9

NOTES:
1. MOUNTING HEIGHTS SHALL BE COORDINATED AND VERIFIED WITH ARCHITECTURAL DRAWINGS. ROUGH-IN HEIGHTS SHALL BE COORDINATED WITH FIXTURE MOUNTING HEIGHTS. ROUGH-IN HEIGHTS SHALL BE ADJUSTED ACCORDINGLY TO ACCOMMODATE FIXTURE HEIGHT AND FIXTURE CHARACTERISTICS.
2. PROVIDE CHROME PLATED 17 GAGE BRASS P-TRAP AND ARM ESCUTCHEON.
3. PROVIDE CHROME PERFORATED OPEN STRAINER.
4. PROVIDE (BRASSCRAFT MODEL KTSCR19XC) CHROME QUARTER-TURN ANGLE STOP VALVES WITH LOOSE KEY, CHROME ESCUTCHEONS, CHROME PLATED RIGID SUPPLIES OR APPROVED EQUAL.
5. INSULATE P-TRAP, DRAIN AND SUPPLY PIPING WITH TRUEBRO OR PLUMBEREX MODEL X4333 INSULATION OR APPROVED EQUAL. MATERIAL SHALL BE MOLDED (PVC) POLYVINYL CHLORIDE BASED, FOAM BASED MATERIAL WILL NOT BE PERMITTED. WHITE IN COLOR.
6. PROVIDE ASSE 1070 POINT OF USE THERMOSTATIC MIXING VALVE TYPE TMV-1 WITH CHROME RIGID SUPPLIES.
7. PROVIDE ELKAY MODEL LK35 STRAINER BASKET EACH BOWL, DELETE WHERE THERE IS A GARBAGE DISPOSER.
8. CAULK FIXTURE TO FLOOR, WALL OR COUNTER TOP WITH MATCHING COLOR CAULK.
9. FIXTURE USED FOR EDUCATIONAL PURPOSES AND SHALL HAVE NO PLUMBING WATER SUPPLY AND SANITARY CONNECTIONS.

PLUMBING SYMBOLS AND ABBREVIATIONS

AFF.	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
BFP	BACK FLOW PREVENTER
CI	CAST IRON
CO	CLEANOUT
CW	COLD WATER
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
HW	HOT WATER
HWC	HOT WATER CIRCULATING
L	LAVATORY
NC	NEW CONNECTION
SA	SANITARY
TMV	THERMOSTATIC MIXING VALVE
TYP.	TYPICAL
V	VENT
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
FCO	FLOOR CLEANOUT (ROUND)
FD	FLOOR DRAIN (ROUND)

CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWC	DOMESTIC HOT WATER CIRCULATING
ST	SUSPENDED STORM SEWER
SA	UNDERGROUND SANITARY SEWER
V	SUSPENDED VENT PIPING
	PIPING TO BE REMOVED (DEMOLITION DRAWING ONLY)
	GATE VALVE
	CHECK VALVE
	BALL VALVE
	CIRCUIT BALANCING VALVE W/BALANCING PORTS
	DIRECTION OF FLOW
	PIPE ELBOW (TURNED UP)
	PIPE ELBOW (TURNED DOWN)
	PIPE TEE DOWN (DROP)
	PIPE TEE UP
	PIPE TEE UP OR ANGLE
	PIPE TEE DOWN OR ANGLE
NC	NEW CONNECTION
	CLEANOUT IN SUSPENDED CEILING

dkA
ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2
8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

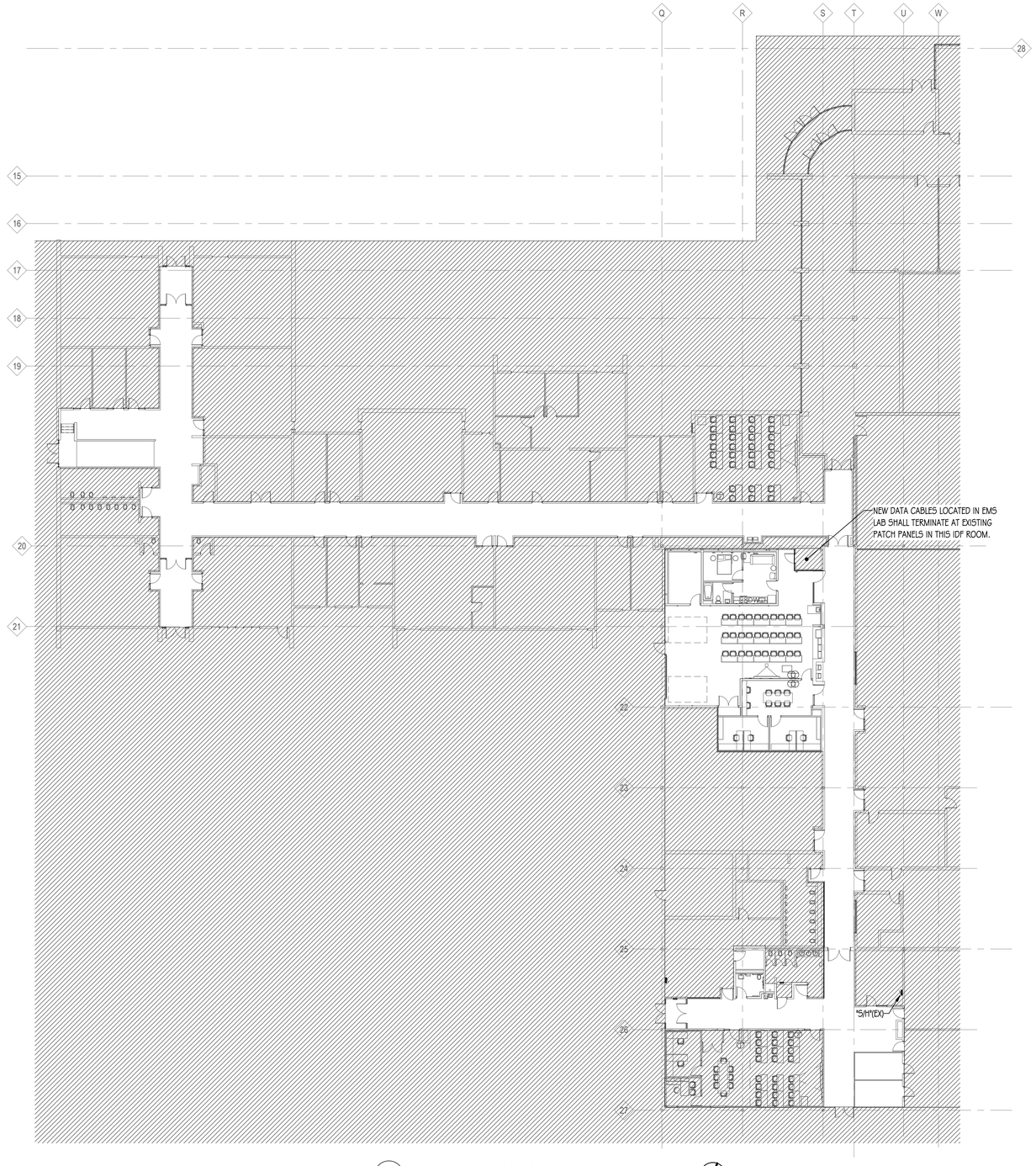
KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
PLUMBING GENERAL NOTES

SHEET NUMBER:
P2.10



1 LEVEL 1 OVERALL ELECTRICAL PLAN
1/16" = 1'-0"

TRUE NORTH

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
OVERALL ELECTRICAL PLANS

SHEET NUMBER:
E0.10

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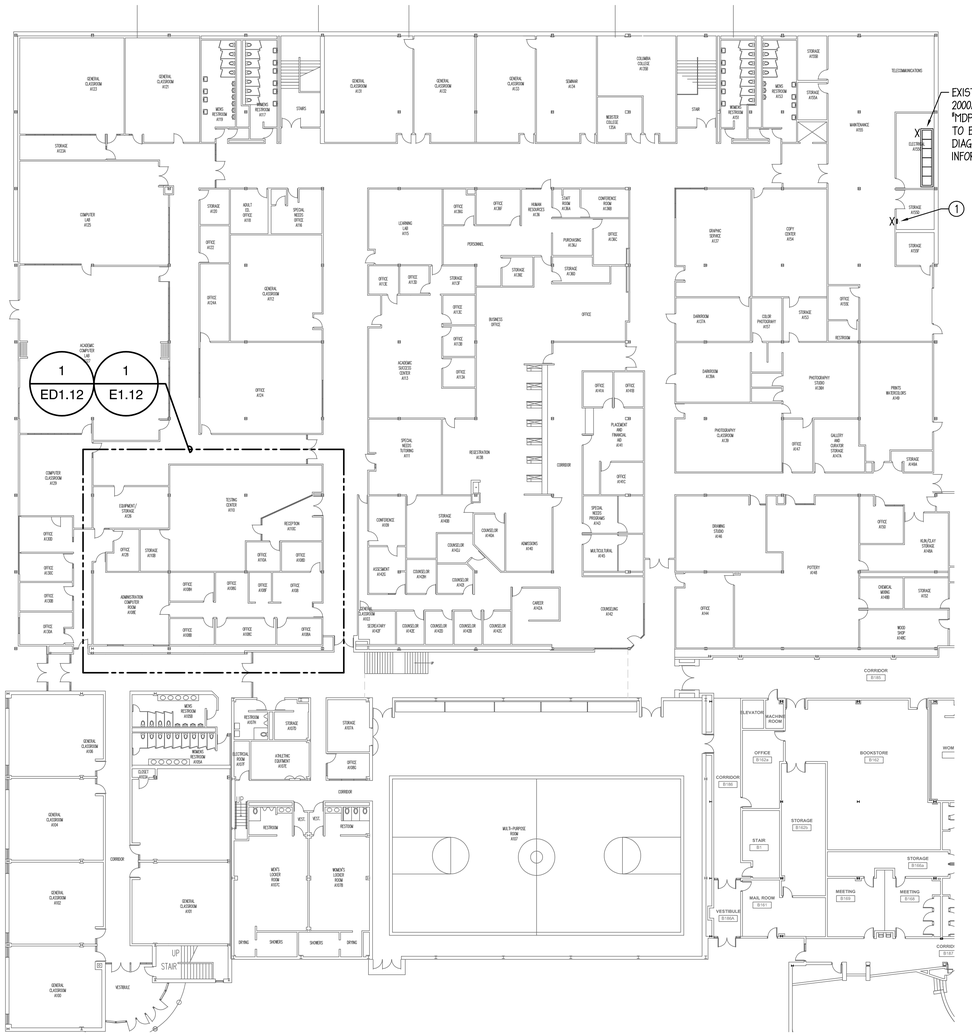
DRAWING NOTES: (TYPICAL FOR THIS DRAWING ONLY.)

1. APPROXIMATE LOCATION OF EXISTING 480/277V-3PH-4W, 3000MCB PANEL 'DP-EMIT' MANUFACTURED BY 'SQUARE D'. DISCONNECT AND REMOVE (1) 110A-3P & (1) 70A-3P CIRCUIT BREAKERS CURRENTLY SERVING COMPUTER ROOM COOLING UNITS SCHEDULED TO BE DEMOLISHED. REMOVED CIRCUIT BREAKERS SHALL BE TURNED OVER TO OWNER FOR ATTIC STOCK. REPLACE WITH (2) NEW 50A-3P CIRCUIT BREAKERS TO SERVE REPLACEMENT EQUIPMENT 'CRCU-1' & 'CRCU-2'. NEW CIRCUIT BREAKERS SHALL BE OF TYPE AND AIC RATING TO MATCH EXISTING PANEL. EXTEND EXISTING CONDUCTORS TO NEW CIRCUIT BREAKERS AS REQUIRED. INCLUDE UPDATED PANELBOARD DIRECTORY TO REFLECT CHANGES. FIELD VERIFY EXACT REQUIREMENTS.
2. EXISTING MECHANICAL EQUIPMENT TO REMAIN. PROTECT CONDUITS AND CONDUCTORS SERVING EQUIPMENT TO MAINTAIN PROPER OPERATION.
3. ELECTRICALLY DISCONNECT EXISTING EQUIPMENT FOR REMOVAL. REMOVE ANY ASSOCIATED FIRE ALARM DEVICES, DISCONNECT SWITCHES, STARTERS, AND ALL CONDUITS AND CONDUCTORS BETWEEN EQUIPMENT AND PANEL. LEAVE CIRCUIT BREAKER AT 'OFF' POSITION AND INDICATE CIRCUIT AS "SPARE" IN PANELBOARD DIRECTORY.
4. FOLLOW PATH FOR MECHANICAL SYSTEM PIPING AND ROUTE NEW CONDUITS IN PIPE CHASE FROM FLOOR BELOW TO ROOF TO SERVE NEW EQUIPMENT 'ACC-1' & 'ACC-2'. UTILIZE SAME ROOF CURB AS MECHANICAL PIPING FOR ROUTING OF CONDUITS UP TO ROOF. SEE DETAIL ON SHEET ME1.0 FOR ROOF CURB AND ROOF SUPPORT REQUIREMENTS. FIELD COORDINATE AND VERIFY EXACT CONDUIT ROUTING.


EXISTING 480/277V-3PH-4W, 2000A RATED SWITCHBOARD 'MDP-C' TO REMAIN. REFER TO ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION.
X1
1
1 ED1.12
1 E1.12
ACADEMIC COUNSELING CENTER A03
TESTING CENTER A03D
EQUIPMENT / STORAGE A03E
RECEPTION A03C
ADMINISTRATION COMPUTER ROOM A03G
OFFICE A03A
OFFICE A03B
OFFICE A03F
OFFICE A03H
OFFICE A03J
OFFICE A03K
OFFICE A03L
OFFICE A03M
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GENERAL CLASSROOM A03D
GENERAL CLASSROOM A03E
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GENERAL CLASSROOM A03Z
COMPUTER LAB A03D
COMPUTER LAB A03E
COMPUTER CLASSROOM A03N
COMPUTER CLASSROOM A03P
STORAGE A03C
STORAGE A03Q
STORAGE A03R
STORAGE A03S
STORAGE A03T
STORAGE A03U
STORAGE A03V
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STORAGE A03X
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STORAGE A04U
STORAGE A04V
STORAGE A04W
STORAGE A04X
STORAGE A04Y
STORAGE A04Z
ADULT ED OFFICE A03B
SPECIAL NEEDS OFFICE A03H
SPECIAL NEEDS OFFICE A03K
SPECIAL NEEDS TUTORING A03T
SPECIAL NEEDS PROGRAMS A04D
COLUMBIA COLLEGE A03M
NEWBERY COLLEGE A03N
MDF/IDF ROOM A03D
MDF/IDF ROOM A03E
MDF/IDF ROOM A03F
MDF/IDF ROOM A03G
MDF/IDF ROOM A03H
MDF/IDF ROOM A03J
MDF/IDF ROOM A03K
MDF/IDF ROOM A03L
MDF/IDF ROOM A03M
MDF/IDF ROOM A03N
MDF/IDF ROOM A03P
MDF/IDF ROOM A03Q
MDF/IDF ROOM A03R
MDF/IDF ROOM A03S
MDF/IDF ROOM A03T
MDF/IDF ROOM A03U
MDF/IDF ROOM A03V
MDF/IDF ROOM A03W
MDF/IDF ROOM A03X
MDF/IDF ROOM A03Y
MDF/IDF ROOM A03Z
MDF/IDF ROOM A04A
MDF/IDF ROOM A04B
MDF/IDF ROOM A04C
MDF/IDF ROOM A04D
MDF/IDF ROOM A04E
MDF/IDF ROOM A04F
MDF/IDF ROOM A04G
MDF/IDF ROOM A04H
MDF/IDF ROOM A04J
MDF/IDF ROOM A04K
MDF/IDF ROOM A04L
MDF/IDF ROOM A04M
MDF/IDF ROOM A04N
MDF/IDF ROOM A04P
MDF/IDF ROOM A04Q
MDF/IDF ROOM A04R
MDF/IDF ROOM A04S
MDF/IDF ROOM A04T
MDF/IDF ROOM A04U
MDF/IDF ROOM A04V
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MDF/IDF ROOM A04X
MDF/IDF ROOM A04Y
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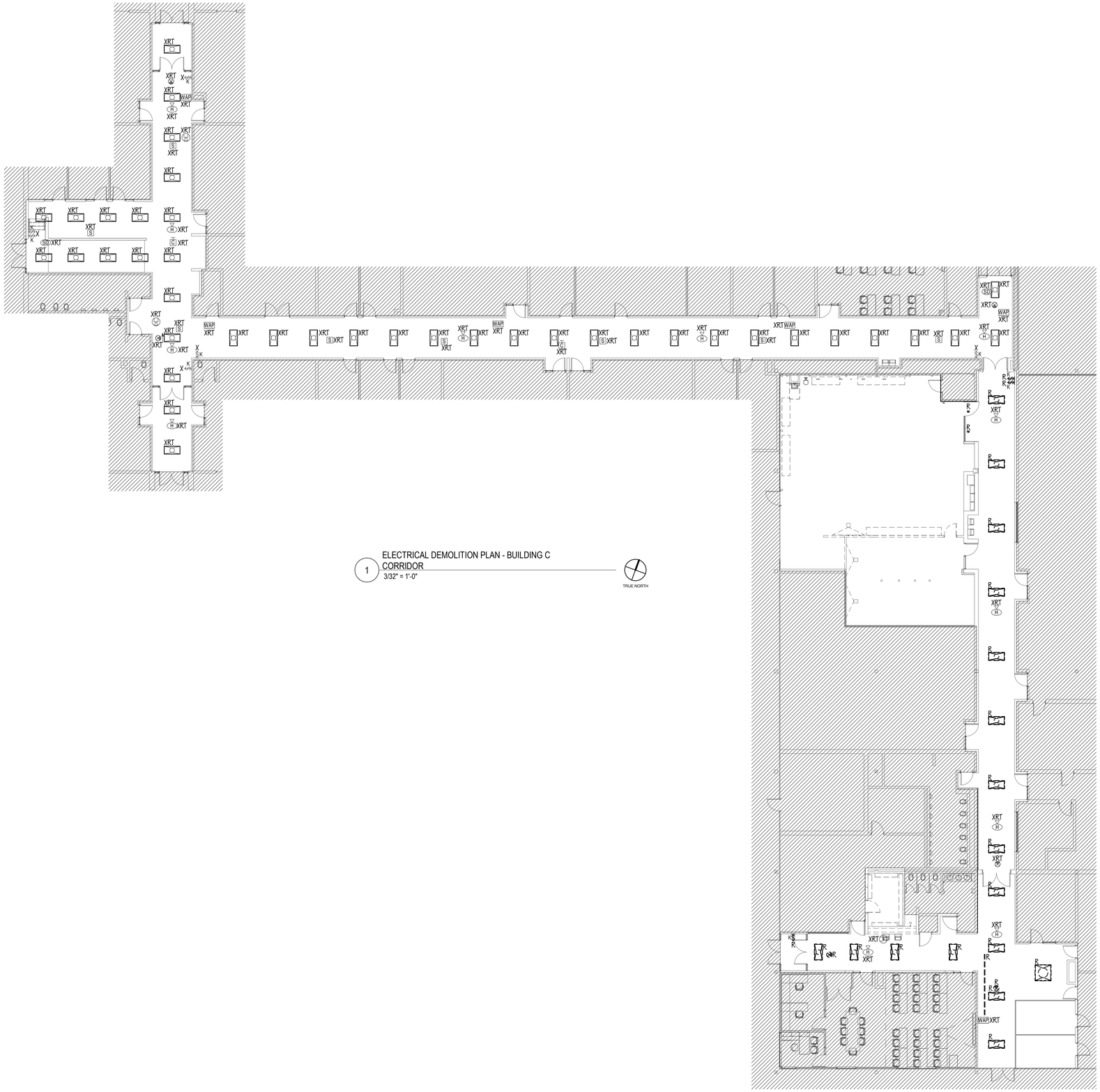
STAIR



1 ELECTRICAL DEMOLITION PLAN - BUILDING C CORRIDOR
3/32" = 1'-0"

TRUE NORTH

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL DEMOLITION PLANS

SHEET NUMBER:
ED1.10

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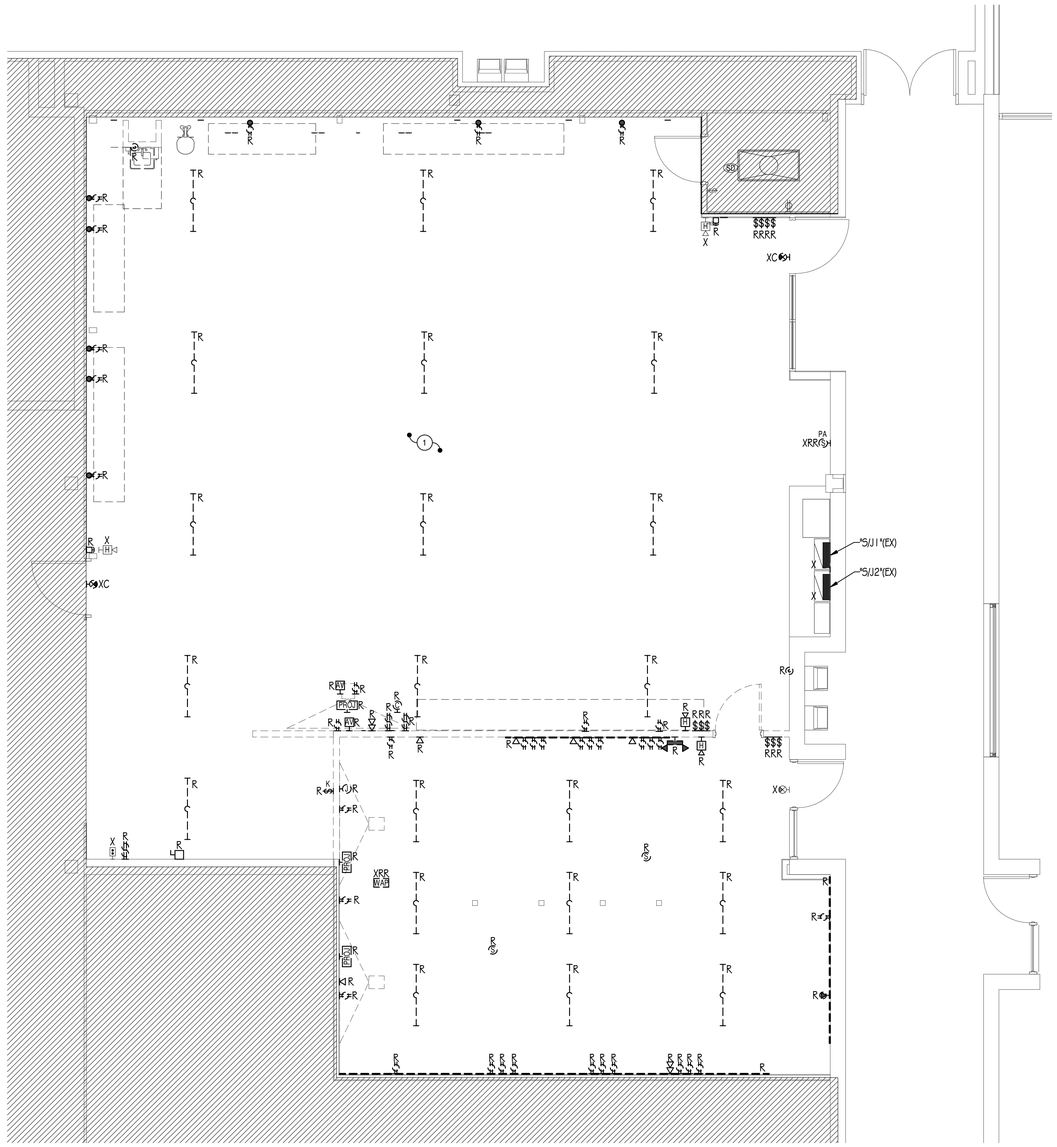
GENERAL DEMOLITION NOTE:
CAREFULLY DISCONNECT, REMOVE AND TURN OVER REMOVED LOW VOLTAGE DEVICE/EQUIPMENT INCLUDING, BUT NOT LIMITED TO, WIRELESS ACCES POINTS, SECURITY CAMERAS, SPECIALTY LIGHTING, AUDIO/VIDEO EQUIPMENT, AUDIO/VIDEO RACK, CARD READERS, ETC. TO OWNER'S REPRESENTATIVE.

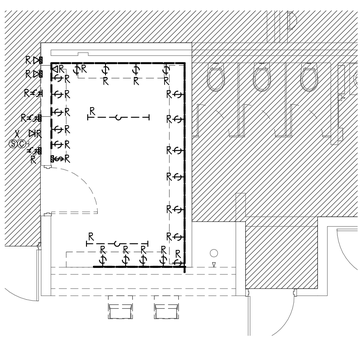
DRAWING NOTES

1 DISCONNECT AND REMOVE ALL EXISTING CONDUCTORS, RACEWAYS, UNISTRUT SUPPORTS, HANGERS, ETC. ASSOCIATED WITH EXISTING EQUIPMENT LOCATED IN THIS SPACE. FIELD VERIFY EXACT REQUIREMENTS.



1 ELECTRICAL DEMOLITION PLAN - EMS
1/4" = 1'-0"

TRUE NORTH



2 ELECTRICAL DEMOLITION PLAN - GENDER NEUTRAL TOILET (ALTERNATE #2)
1/4" = 1'-0"

TRUE NORTH

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

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NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL DEMOLITION PLANS

SHEET NUMBER:
ED1.11

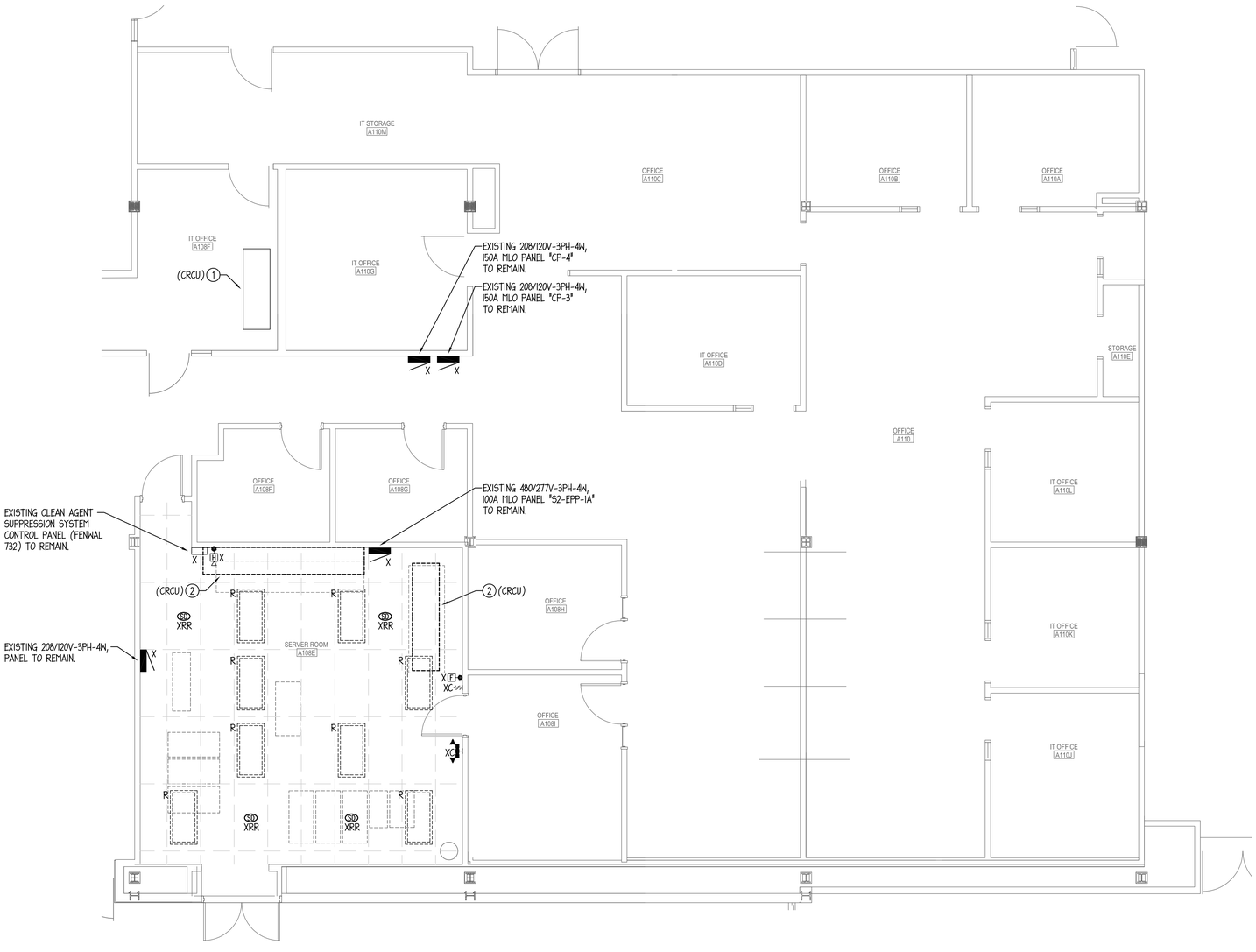
10/16/2024 2:08:01 PM

BIDDING NOTE

WORK SHOWN ON THIS SHEET SHALL BE PART OF ALTERNATE #3.

DRAWING NOTES: (TYPICAL FOR THIS DRAWING ONLY.)

1. EXISTING MECHANICAL EQUIPMENT TO REMAIN. PROTECT CONDUITS AND CONDUCTORS SERVING EQUIPMENT TO MAINTAIN PROPER OPERATION.
2. ELECTRICALLY DISCONNECT EXISTING EQUIPMENT FOR REMOVAL. REMOVE ANY ASSOCIATED DISCONNECT SWITCHES AND STARTERS. EXISTING CONDUITS AND CONDUCTORS ORIGINATING FROM EXISTING PANEL "DP-EMIT" SHALL REMAIN TO FEED NEW REPLACEMENT EQUIPMENT.



1 ELECTRICAL DEMOLITION PLAN - SERVER ROOM
1/4" = 1'-0"

TRUE NORTH

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
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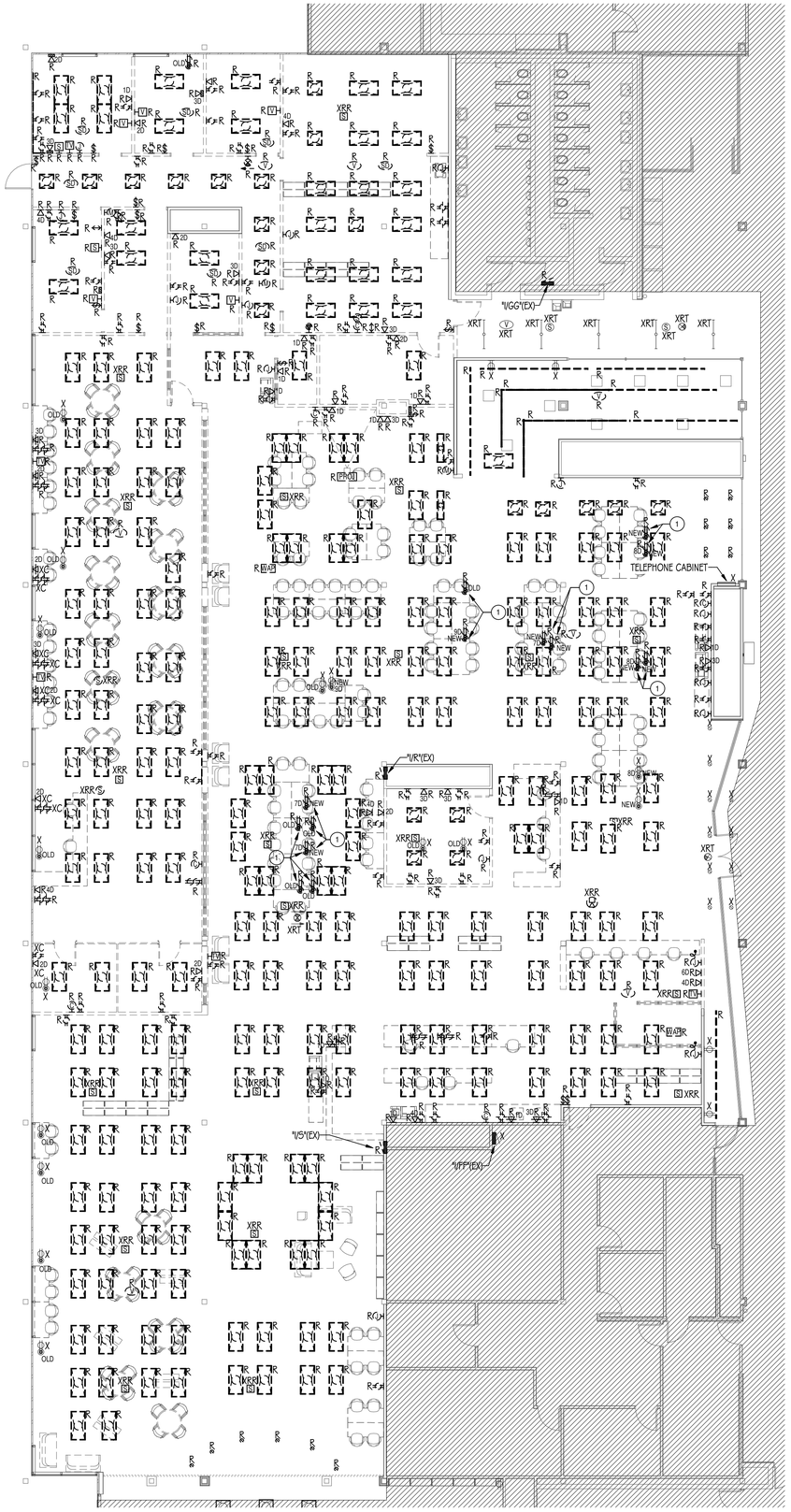
NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL DEMOLITION PLANS

SHEET NUMBER:
ED1.12

GENERAL DEMOLITION NOTE:
CAREFULLY DISCONNECT, REMOVE AND TURN OVER REMOVED LOW VOLTAGE DEVICE/EQUIPMENT INCLUDING, BUT NOT LIMITED TO, WIRELESS ACCES POINTS, SECURITY CAMERAS, SPECIALTY LIGHTING, AUDIO/VIDEO EQUIPMENT, AUDIO/VIDEO RACK, CARD READERS, ETC. TO OWNER'S REPRESENTATIVE.



1 ELECTRICAL DEMOLITION PLAN - LIBRARY
1/8" = 1'-0"

TRUE NORTH

DRAWING NOTES

1 DISCONNECT AND REMOVE EXISTING FLOOR BOX DEVICES, FLANGES, COVER, ASSOCIATED CONDUCTORS/CABLES AND CONDUITS BACK TO SOURCE. FLOOR BOX SHALL BE ABANDONED IN SLAB WITH BLANK COVER PLATE IN PREPARATION FOR NEW FLOOR FINISH. FIELD VERIFY EXACT REQUIREMENTS.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
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DKA PROJECT NO: 24-031

KEY PLAN:

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ELECTRICAL DEMOLITION PLANS

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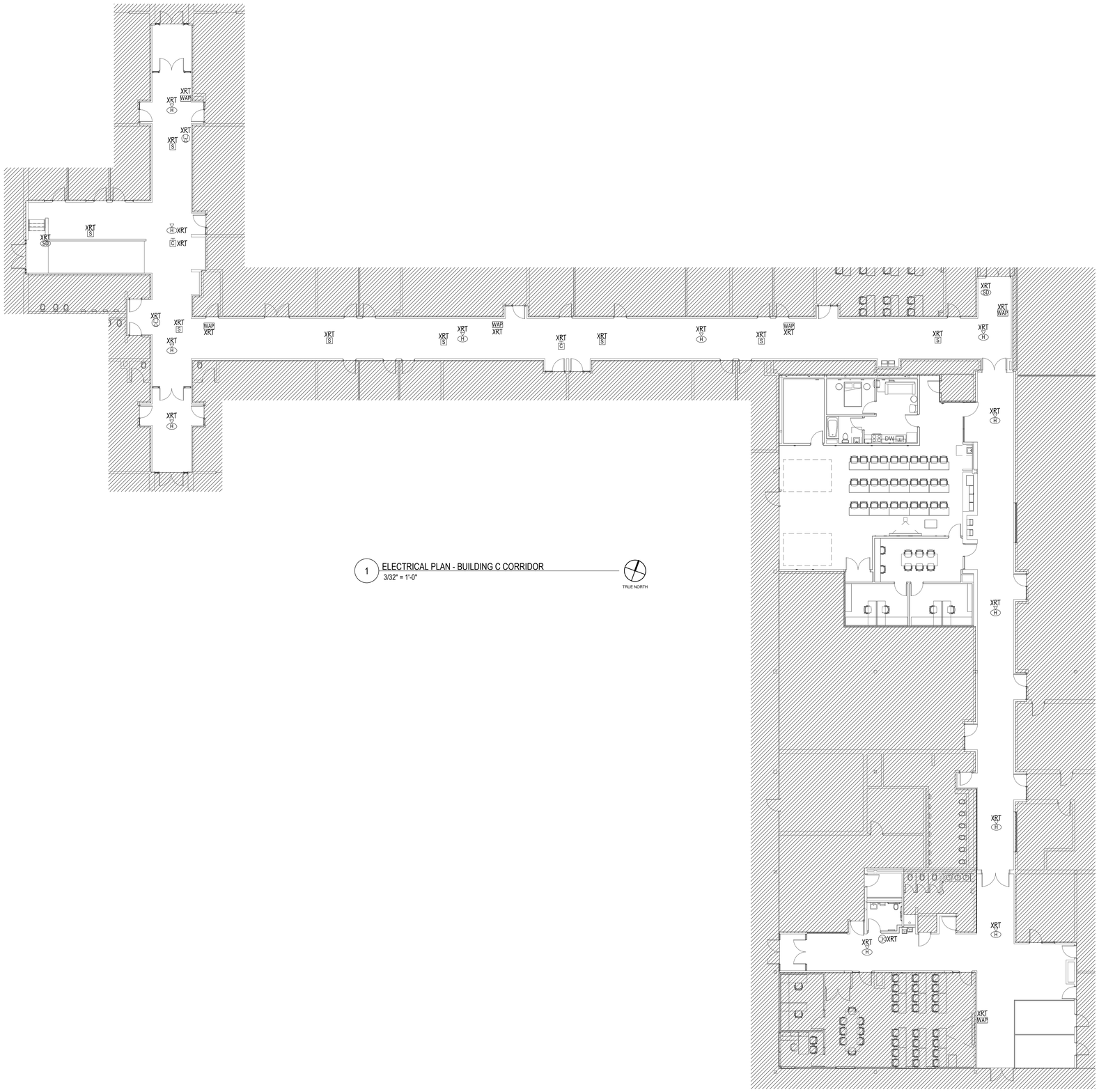

1 ELECTRICAL PLAN - BUILDING C CORRIDOR
3/32" = 1'-0"

TRUE NORTH

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DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

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20/10 ENGINEERING GROUP, LLC
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SCHAUMBURG,IL 60173
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McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

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DKA PROJECT NO: 24-031

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SHEET TITLE:
ELECTRICAL PLANS

SHEET NUMBER:
E1.10

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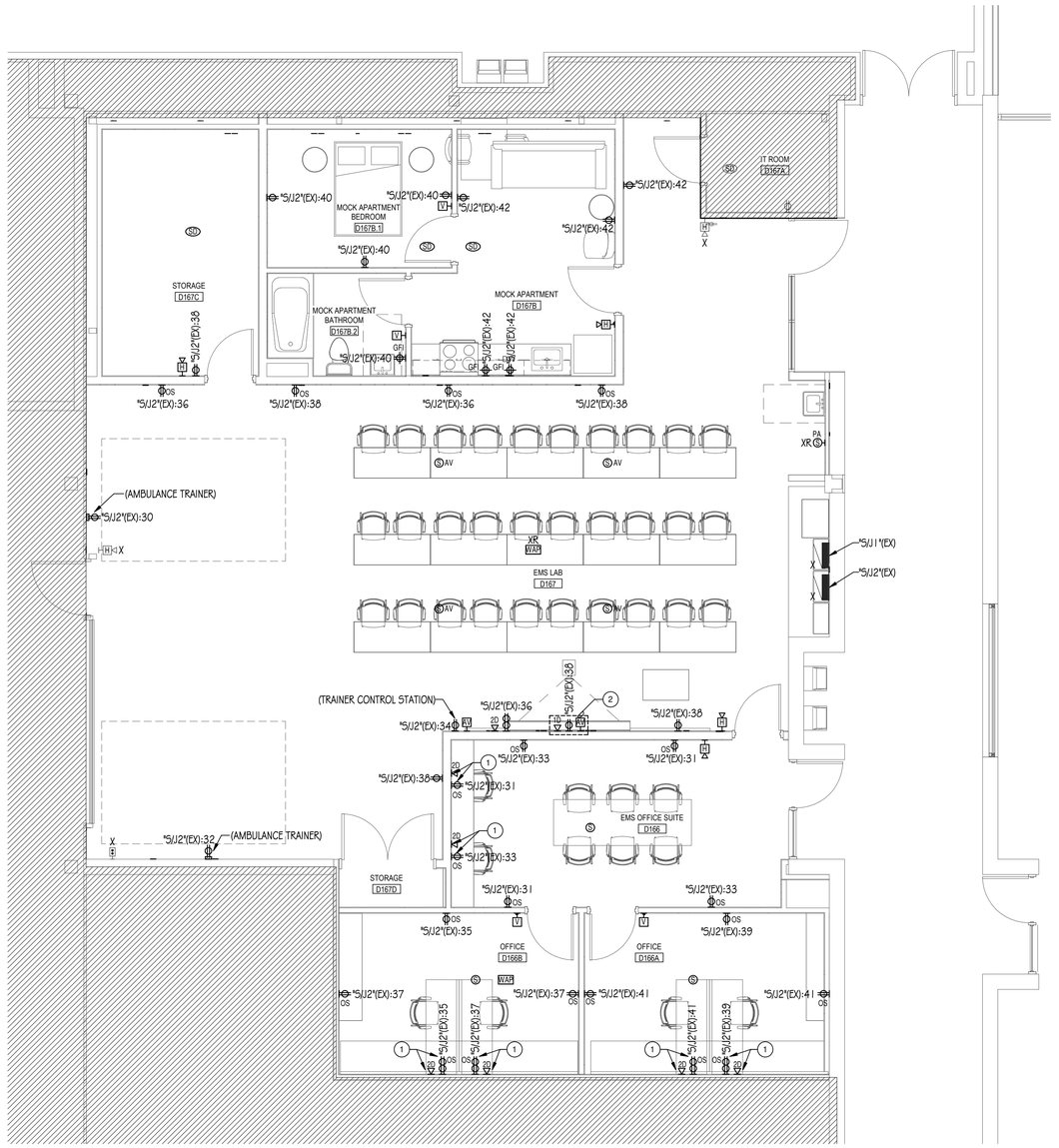
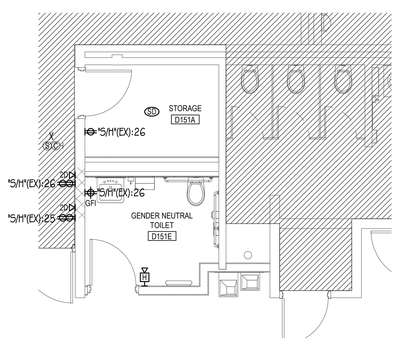
DRAWING NOTES

1 CONFIRM EXACT LOCATION OF DEVICES SERVING WORKSTATIONS PRIOR TO ROUGH-IN WITH ARCHITECT AND/OR GENERAL CONTRACTOR.

2 FOR WALL-MOUNTED SHORT-THROW PROJECTOR. CONFIRM EXACT LOCATION PRIOR TO ROUGH-IN WITH ARCHITECT AND/OR GENERAL CONTRACTOR.





2 ELECTRICAL PLAN - GENDER NEUTRAL TOILET (ALTERNATE #2)
1/4" = 1'-0"

TRUE NORTH

1 ELECTRICAL PLAN - EMS
1/4" = 1'-0"

TRUE NORTH

GENERAL NOTES:

1. UNLESS INDICATED OTHERWISE, CONTRACTOR SHALL CHANNEL EXISTING DRYWALL AS REQUIRED TO CONCEAL CONDUITS AND RECESS MOUNTED JUNCTION BOXES FOR ELECTRICAL DEVICES. COORDINATE WALL PATCHING REQUIREMENTS WITH GENERAL TRADES CONTRACTOR. WHERE RECESS MOUNTING IS NOT FEASIBLE, INFORM ARCHITECT AND/OR GENERAL CONTRACTOR PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL CONFIRM EXACT FLOOR BOX LOCATION WITH THE ARCHITECT AND LOCATE/MARK ANY EXISTING UTILITIES IN AREA BY EMPLOYING SERVICE TO SCAN THE FLOOR SLAB. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGES TO EXISTING UTILITIES DUE TO SAWCUTTING.
3. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS OF THERMOSTAT/CARBON DIOXIDE DETECTORS. PROVIDE SINGLE GANG BACKBOX AND EMPTY 3/4" CONDUIT WITH PULL STRING STUBBED INTO AN ACCESSIBLE CEILING SPACE FOR INSTALLATION OF THERMOSTAT/CARBON DIOXIDE DETECTORS.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL PLANS

SHEET NUMBER:
E1.11

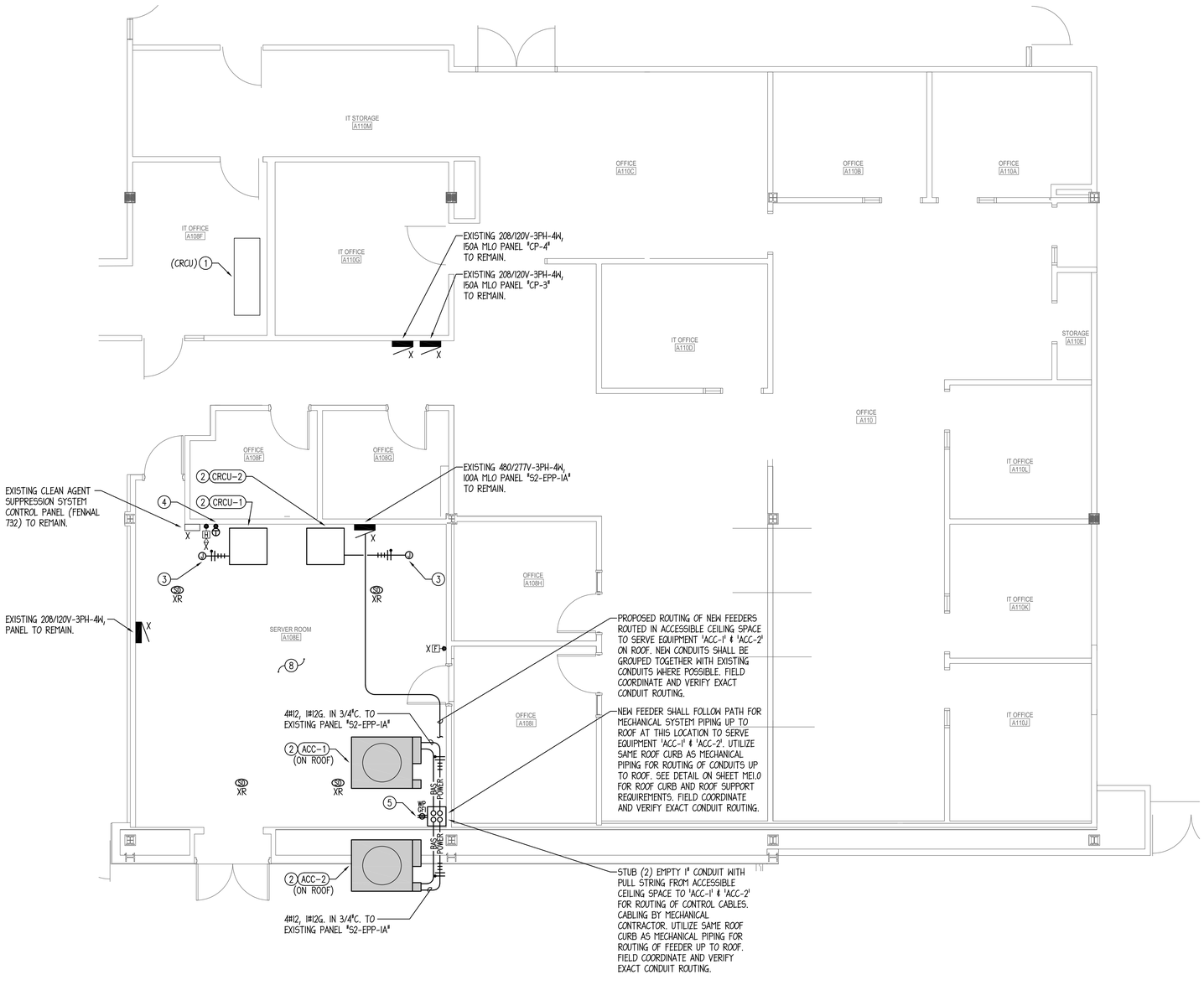
10/16/2024 2:08:08 PM

BIDDING NOTE

WORK SHOWN ON THIS SHEET SHALL BE PART OF ALTERNATE #3.

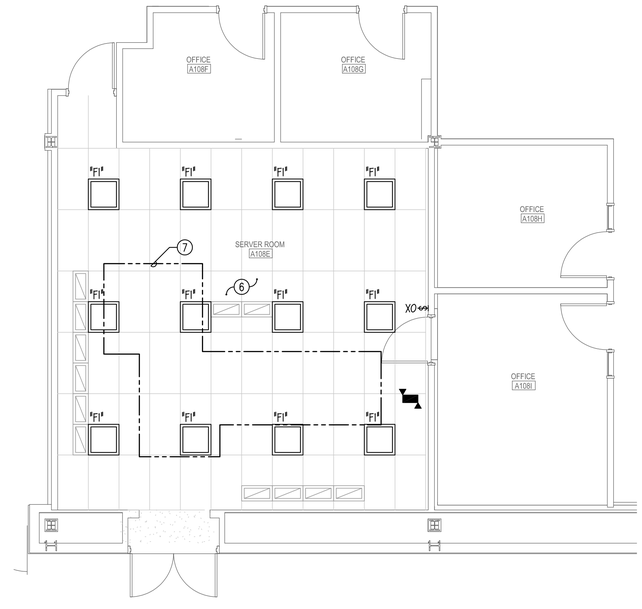
DRAWING NOTES: (TYPICAL FOR THIS DRAWING ONLY.)

1. EXISTING MECHANICAL EQUIPMENT TO REMAIN. PROTECT CONDUITS AND CONDUCTORS SERVING EQUIPMENT TO MAINTAIN PROPER OPERATION.
2. DISCONNECT SWITCH FURNISHED WITH EQUIPMENT, WIRED BY CONTRACTOR.
3. UTILIZE EXISTING 480V-3PH FEEDER ORIGINATING FROM EXISTING PANEL "DP-EM1T" SERVING DEMOLISHED EQUIPMENT, CUT BACK EXISTING CONDUCTORS AND CONDUIT, PROVIDE NEW JUNCTION BOX AND SPLICE CONDUCTORS OF MATCHING CHARACTERISTICS FOR FINAL CONNECTION TO NEW EQUIPMENT. CONDUCTORS SHALL BE MINIMUM SIZE OF #6AWG. INFORM ARCHITECT/ENGINEER IF OTHERWISE. FIELD VERIFY EXACT REQUIREMENTS.
4. PROVIDE SINGLE GANG BACKBOX AND EMPTY CONDUIT WITH PULL STRING STUBBED INTO ACCESSIBLE CEILING SPACE FOR THERMOSTAT/CARBON DIOXIDE DETECTOR, MOUNT 48" A.F.F. UNLESS NOTED OTHERWISE. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS. CABLING SHALL BE BY MECHANICAL CONTRACTOR.
5. MOUNT NEW DEVICE ON NEW PIPE CURB. WIRE TO EXISTING 120VAC. 20AMP. RECEPTACLE BRANCH CIRCUIT CURRENTLY SERVING ROOF WITH SPARE CAPACITY. FIELD VERIFY EXACT REQUIREMENTS.
6. NEW LUMINAIRES SHALL RECONNECT TO EXISTING LIGHTING BRANCH CIRCUIT SERVING AREA. PROVIDE NEW SWITCHING SCHEME WHERE INDICATED, OTHERWISE, EXISTING SWITCHING SCHEME SHALL BE MAINTAINED. FIELD VERIFY EXACT REQUIREMENTS.
7. PROPOSED LAYOUT OF VINYL CURTAIN AS PART OF COLD AISLE CONTAINMENT SYSTEM IS SHOWN. FIELD COORDINATE EXACT PLACEMENT OF LUMINAIRES WITH OTHER TRADES PRIOR TO INSTALLATION.
8. FIELD COORDINATE EXACT LAYOUT OF RELOCATED CEILING MOUNTED DETECTORS ASSOCIATED WITH EXISTING CLEAN AGENT SUPPRESSION SYSTEM PRIOR TO INSTALLATION. CONTACT PEDRO CLAVERO AT CINTAS CORPORATION (630-978-0600, CLAVEROP@CINTAS.COM) FOR ADDITIONAL INFORMATION.



1 ELECTRICAL PLAN - SERVER ROOM
1/4" = 1'-0"

TRUE NORTH



2 LIGHTING PLAN - SERVER ROOM
1/4" = 1'-0"

TRUE NORTH

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

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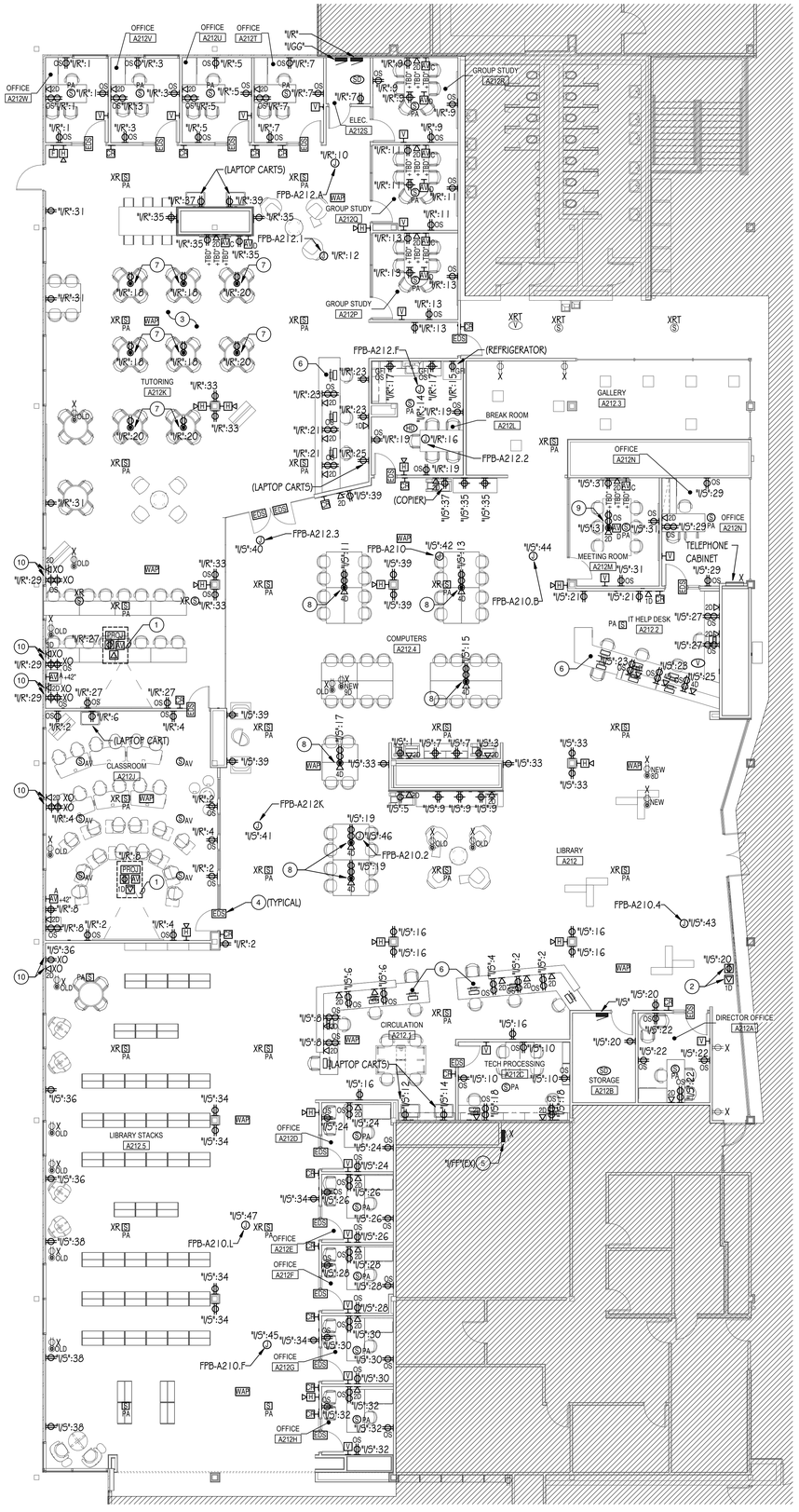

1 ELECTRICAL PLAN - LIBRARY
1/8" = 1'-0"

TRUE NORTH

DRAWING NOTES

1. DEVICES SHALL BE LOCATED INSIDE CEILING MOUNTED ENCLOSURE / PROJECTOR MOUNT. REFER TO ELECTRICAL DETAILS SHEET FOR ADDITIONAL INFORMATION.
2. RECEPTACLE AND DATA OUTLET MOUNTED ON CEILING FOR DISPLAY MONITOR. FINAL LOCATION TO BE COORDINATED WITH OWNER PRIOR TO INSTALL.
3. CONFIRM FINAL LAYOUT OF POKE-THROUGH FLOOR BOXES WITH OWNER PRIOR TO INSTALLATION.
4. PROVIDE 120VAC CONNECTION TO LOW VOLTAGE TRANSFORMER FOR ELECTRIC STRIKE TO NEAREST RECEPTACLE BRANCH CIRCUIT. INSTALL AND WIRE PER DOOR MANUFACTURER'S INSTRUCTIONS FOR A COMPLETE AND OPERABLE SYSTEM.
5. CONTRACTOR SHALL VERIFY THAT NO BRANCH CIRCUITS IN EXISTING PANEL 'I/FP' IS SERVING THE LIBRARY AT THE END OF THE PROJECT. ANY EXISTING BRANCH CIRCUITS SERVING LIBRARY THAT IS SCHEDULED TO REMAIN SHALL BE EXTENDED TO NEW PANEL 'I/5'. FIELD VERIFY EXACT REQUIREMENTS.
6. DEVICES SHOWN SHALL BE RECESSED IN MILLWORK KNEEWALL. PROVIDE MINIMUM 3/4" CONDUITS FOR POWER, MINIMUM 1 1/4" CONDUITS FOR LOW VOLTAGE. CONDUITS SHALL BE ROUTED INSIDE UTILITY CHASE. REFER TO ARCHITECTURAL SHEETS FOR ADDITIONAL INFORMATION. COORDINATE INSTALLATION WITH MILLWORK CONTRACTOR AND FIELD VERIFY FINAL DEVICE LOCATION PRIOR TO ROUGH-IN.
7. PROVIDE 4" ROUND RECESSED POKE-THRU DEVICE AS MANUFACTURED BY LEGRAND WIREMOLD EVOLUTION SERIES #4ATC(XX). INCLUDE SURFACE STYLE COVER #4CTC(XX), AND RECEPTACLE DEVICE PLATE #4REC. COVER FINISH COLOR TO BE SELECTED BY THE ARCHITECT. COORDINATE WITH FLOOR CONTRACTOR SUCH THAT COVER IS FLUSH WITH THE FLOOR FINISH MATERIAL.
8. PROVIDE 6" ROUND RECESSED POKE-THRU DEVICE AS MANUFACTURED BY LEGRAND WIREMOLD EVOLUTION SERIES #6ATC2(XX). INCLUDE SURFACE STYLE COVER #6CTC2(XX), RECEPTACLE DEVICE PLATE #6REC, AND COMMUNICATION DEVICE PLATE #6ACT8A. COVER FINISH COLOR TO BE SELECTED BY THE ARCHITECT. COORDINATE WITH FLOOR CONTRACTOR SUCH THAT COVER IS FLUSH WITH THE FLOOR FINISH MATERIAL. VERIFY FINAL LOCATION PRIOR TO INSTALLATION.
9. PROVIDE 8" ROUND RECESSED POKE-THRU DEVICE AS MANUFACTURED BY LEGRAND WIREMOLD EVOLUTION SERIES #8ATC2(FINISH). INCLUDE SURFACE STYLE COVER #8CTC2(FINISH), RECEPTACLE DEVICE PLATE #6REC, COMMUNICATION DEVICE PLATE #8ACTGA, AND DECORA STYLE DEVICE PLATES #8DEC. COVER FINISH COLOR TO BE SELECTED BY THE ARCHITECT. COORDINATE WITH FLOOR CONTRACTOR SUCH THAT COVER IS FLUSH WITH THE FLOOR FINISH MATERIAL.
10. INSTALL NEW EXTENSION RING OVER EXISTING RECESSED JUNCTION BOX TO ACCOMMODATE NEW WALL FURRING. PROVIDE NEW WALLPLATES AND EXTEND CONDUCTORS/CABLES AS REQUIRED TO MAINTAIN DEVICE OPERATION. FIELD VERIFY EXACT REQUIREMENTS.

GENERAL NOTES:

1. UNLESS INDICATED OTHERWISE, CONTRACTOR SHALL CHANNEL EXISTING DRYWALL AS REQUIRED TO CONCEAL CONDUITS AND RECESS MOUNTED JUNCTION BOXES FOR ELECTRICAL DEVICES. COORDINATE WALL PATCHING REQUIREMENTS WITH GENERAL TRADES CONTRACTOR. WHERE RECESS MOUNTING IS NOT FEASIBLE, INFORM ARCHITECT AND/OR GENERAL CONTRACTOR PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL CONFIRM EXACT FLOOR BOX LOCATION WITH THE ARCHITECT AND LOCATE/MARK ANY EXISTING UTILITIES IN AREA BY EMPLOYING SERVICE TO SCAN THE FLOOR SLAB. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGES TO EXISTING UTILITIES DUE TO SAWCUTTING.
3. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS OF THERMOSTAT/CARBON DIOXIDE DETECTORS. PROVIDE SINGLE GANG BACKBOX AND EMPTY 3/4" CONDUIT WITH PULL STRING STUBBED INTO AN ACCESSIBLE CEILING SPACE FOR INSTALLATION OF THERMOSTAT/CARBON DIOXIDE DETECTORS.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
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McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL PLANS

SHEET NUMBER:
E1.20

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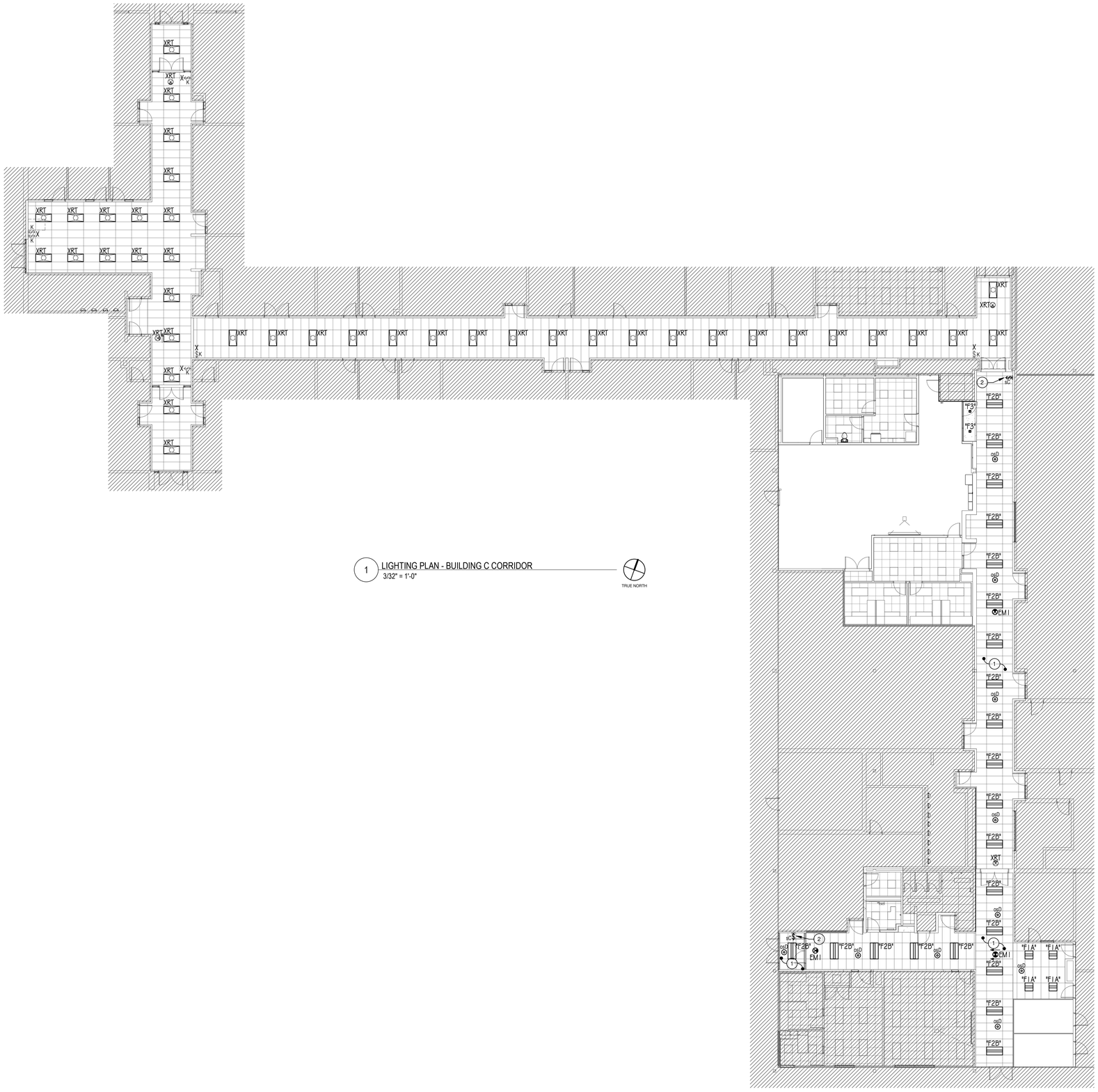
DRAWING NOTES

1 NEW LUMINAIRES SHALL RECONNECT TO EXISTING LIGHTING BRANCH CIRCUIT SERVING AREA. PROVIDE NEW SWITCHING SCHEME WHERE INDICATED, OTHERWISE, EXISTING SWITCHING SCHEME SHALL BE MAINTAINED. FIELD VERIFY EXACT REQUIREMENTS.

2 PROVIDE TWO-PIECE, METALLIC, SINGLE CHANNEL SURFACE RACEWAY AS MANUFACTURED BY WIREMOLD 700 SERIES COMPLETE WITH FITTINGS, ELBOWS, DIVIDERS, COVERS, ETC.,FOR A COMPLETE RACEWAY SYSTEM. AT CONTRACTORS OPTION, EXISTING RECESSED SWITCH BOX MAY BE USED IN LIEU OF SURFACE RACEWAY FOR INSTALLATION OF NEW LOW VOLTAGE SWITCH IF IT IS DETERMINED THE BOX AND THE ASSOCIATED CONDUIT IS FREE OF ANY LINE VOLTAGE CONDUCTORS. CONTRACTOR TO INSTALL NEW SWITCHES AT ADA COMPLIANT HEIGHT.



DRAWING NOTES

1 NEW LUMINAIRES SHALL RECONNECT TO EXISTING LIGHTING BRANCH CIRCUIT SERVING AREA. PROVIDE NEW SWITCHING SCHEME WHERE INDICATED, OTHERWISE, EXISTING SWITCHING SCHEME SHALL BE MAINTAINED. FIELD VERIFY EXACT REQUIREMENTS.

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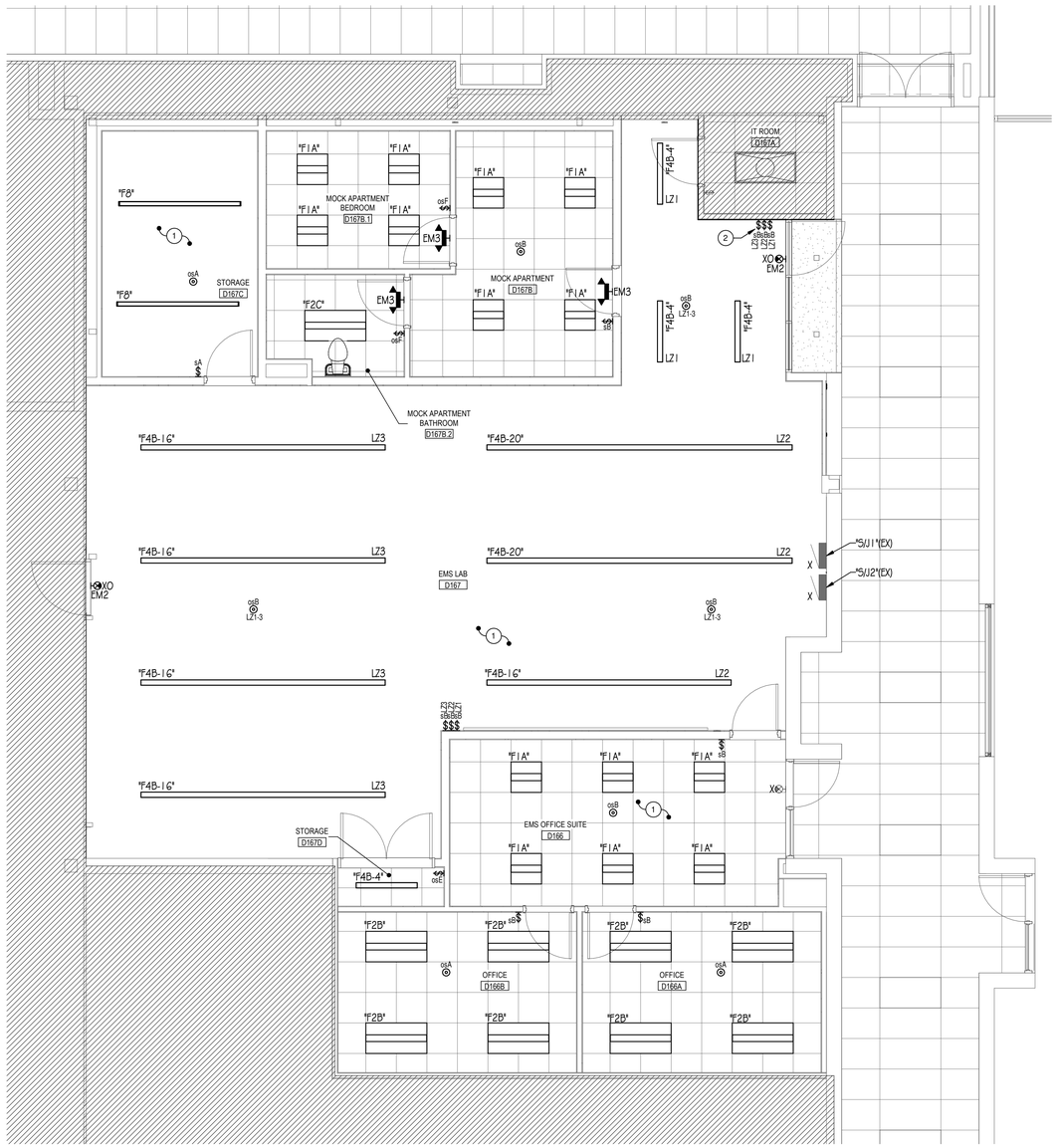

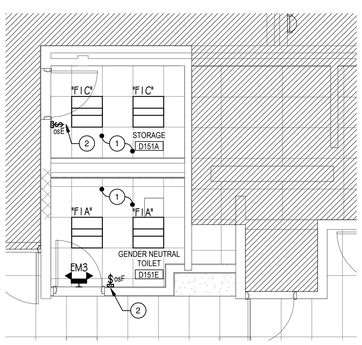

2 LIGHTING PLAN - GENDER NEUTRAL TOILET (ALTERNATE #2)
1/4" = 1'-0"

TRUE NORTH

1 LIGHTING PLAN - EMS
1/4" = 1'-0"

TRUE NORTH

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P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
LIGHTING PLANS

SHEET NUMBER:
E2.11

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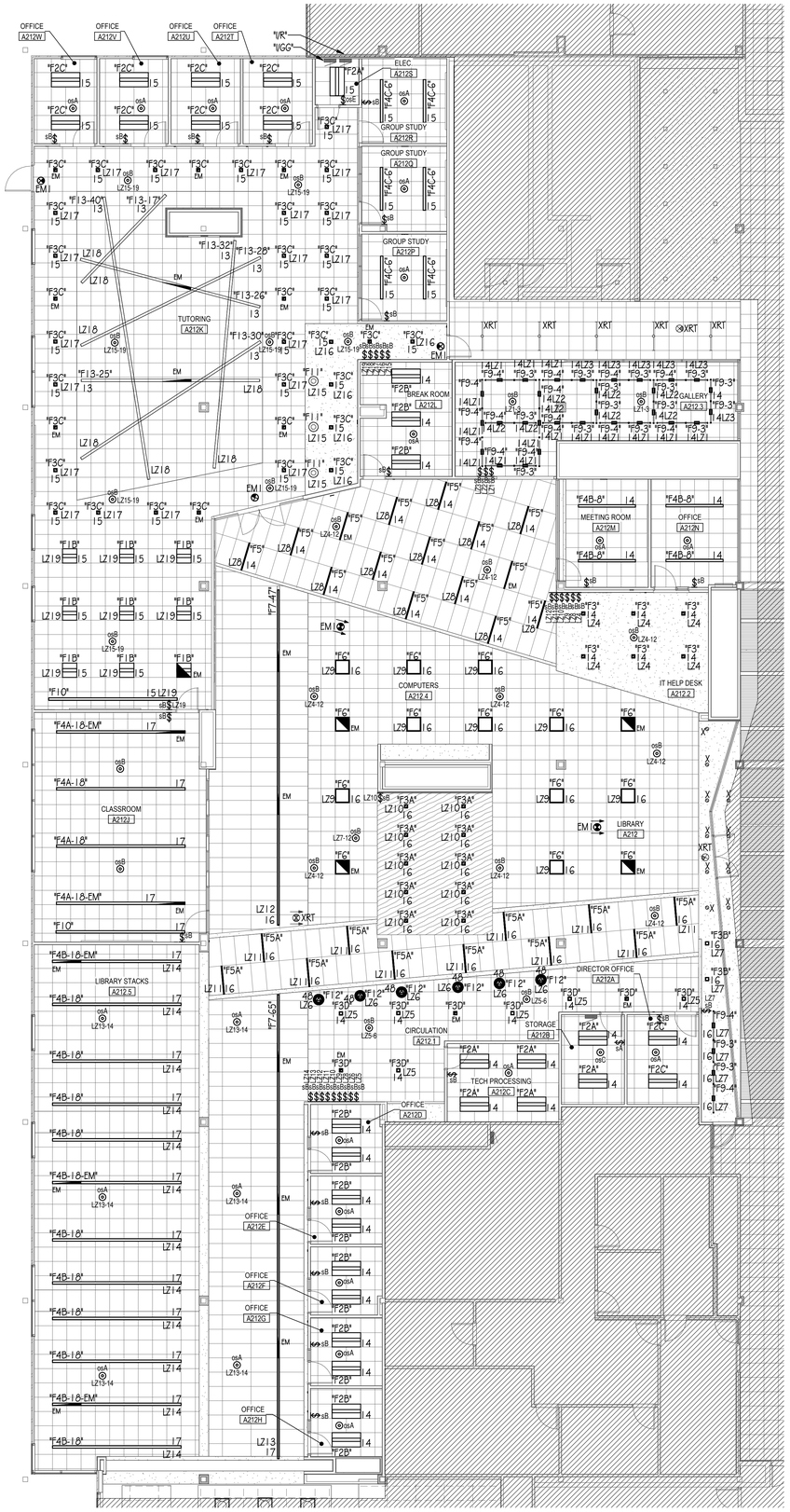

1 LIGHTING PLAN - LIBRARY
1/8" = 1'-0"

TRUE NORTH

EXIT SIGN AND EMERGENCY LIGHTING NOTE:
EXIT SIGNS AND LUMINAIRES DESIGNATED AS "EM" SHALL BE WIRED TO EXISTING EMERGENCY LIGHTING BRANCH CIRCUIT CURRENTLY SERVING AREA. "EM" LUMINAIRES SHALL OPERATE AT ALL TIMES AND SHALL NOT BE CONNECTED TO ANY LIGHTING CONTROL SYSTEM UNLESS INDICATED OTHERWISE. FIELD VERIFY EXACT CIRCUIT NUMBERS AND REQUIREMENTS.

CIRCUITING NOTE:
ALL BRANCH CIRCUITS SHOWN SHALL BE WIRED TO EXISTING PANEL "I/GG" UNLESS NOTED OTHERWISE. CIRCUIT NUMBERS ARE TO INDICATE QUANTITY OF CIRCUITS REQUIRED. VERIFY EXACT CIRCUIT NUMBER TO BE UTILIZED IN FIELD.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

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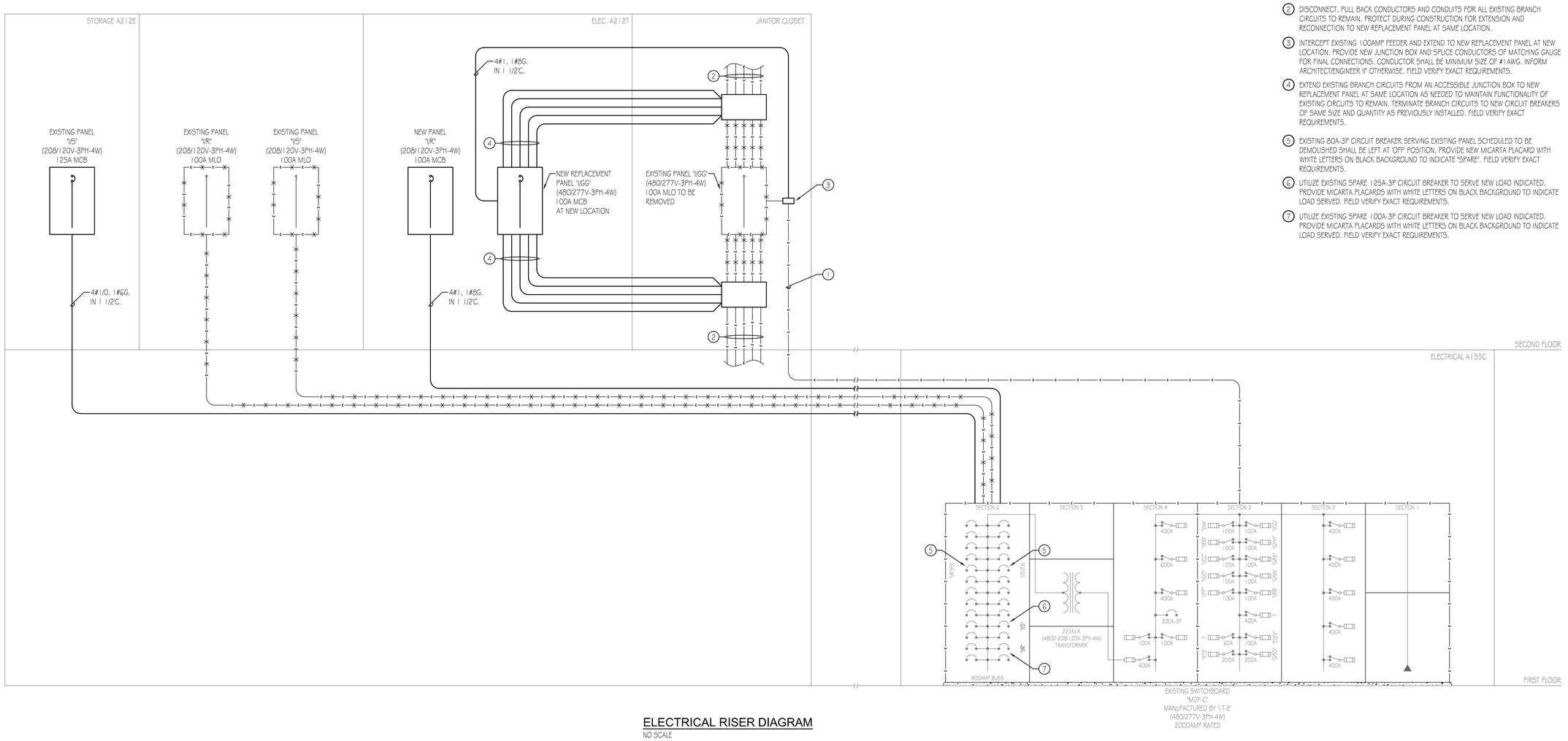

ELECTRICAL RISER DIAGRAM

NO SCALE

NOTES:
1. REFER TO PLANS FOR LOCATIONS OF EQUIPMENT.

LEGEND:

- DENOTES DEMOLITION.
- DENOTES EXISTING TO REMAIN AND/OR BE REUSED.
- DENOTES NEW.

NOTE:
SCHEDULE ELECTRIC SERVICE OUTAGE WITH CONSTRUCTION MANAGER AND NOTIFY OWNER, AND ARCHITECT (10) DAYS IN ADVANCE. CONTRACTOR SHALL SEQUENCE WORK TO LIMIT ELECTRICAL DOWNTIME. ALL OUTAGES SHALL BE SCHEDULED WHEN THE BUILDING IS UNOCCUPIED. RESET AND RESTART ALL SYSTEMS INCLUDING, BUT NOT LIMITED TO, FIRE ALARM, SECURITY AND TELECOMMUNICATIONS AFTER RESTORING BUILDING POWER.

EXISTING CONDITIONS WERE OBTAINED FROM EXISTING AS-BUILT DRAWINGS AND CURSORY FIELD OBSERVATION. THIS CONTRACTOR SHALL IDENTIFY ANY DISCREPANCIES IN THE FIELD AND REPORT THEM TO THE ENGINEER.

GENERAL NOTES:

1. WORK WORK SHALL COMPLY WITH 2020 NATIONAL ELECTRICAL CODE.
2. RISER DIAGRAM IS DIAGRAMMATIC ONLY. COORDINATE EXACT ROUTING OF FEEDERS IN FIELD. PROVIDE PULLBOXES AS REQUIRED PER NEC REQUIREMENTS.
3. ALL ELECTRICAL EQUIPMENT SHOWN IS NEW UNLESS NOTED OTHERWISE.
4. PROVIDE 4" HOUSEKEEPING CONCRETE PAD FOR ALL FLOOR MOUNTED EQUIPMENT.
5. ALL PENETRATIONS THROUGH BUILDING SHALL BE SEALED WATER TIGHT PER ARCHITECTS REQUIREMENTS.

DRAWING NOTES: (TYPICAL FOR THIS DRAWING ONLY.)

1. DISCONNECT AND PULL BACK EXISTING 200AMP FEEDER. PROTECT DURING CONSTRUCTION FOR EXTENSION AND RECONNECTION TO EXISTING PANEL AT NEW LOCATION. FIELD VERIFY EXACT REQUIREMENTS.
2. DISCONNECT, PULL BACK CONDUCTORS AND CONDUITS FOR ALL EXISTING BRANCH CIRCUITS TO REMAIN. PROTECT DURING CONSTRUCTION FOR EXTENSION AND RECONNECTION TO NEW REPLACEMENT PANEL AT SAME LOCATION.
3. INTERCEPT EXISTING 100AMP FEEDER AND EXTEND TO NEW REPLACEMENT PANEL AT NEW LOCATION. PROVIDE NEW JUNCTION BOX AND SPLICE CONDUCTORS OF MATCHING GAUGE FOR FINAL CONNECTIONS. CONDUCTOR SHALL BE MINIMUM SIZE OF #1 AWG. INFORM ARCHITECT/ENGINEER IF OTHERWISE. FIELD VERIFY EXACT REQUIREMENTS.
4. EXTEND EXISTING BRANCH CIRCUITS FROM AN ACCESSIBLE JUNCTION BOX TO NEW REPLACEMENT PANEL AT SAME LOCATION AS NEEDED TO MAINTAIN FUNCTIONALITY OF EXISTING CIRCUITS TO REMAIN. TERMINATE BRANCH CIRCUITS TO NEW CIRCUIT BREAKERS OF SAME SIZE AND QUANTITY AS PREVIOUSLY INSTALLED. FIELD VERIFY EXACT REQUIREMENTS.
5. EXISTING 80A-3P CIRCUIT BREAKER SERVING EXISTING PANEL SCHEDULED TO BE DEMOLISHED SHALL BE LEFT AT 'OFF' POSITION. PROVIDE NEW MICARTA PLACARD WITH WHITE LETTERS ON BLACK BACKGROUND TO INDICATE "SPARE". FIELD VERIFY EXACT REQUIREMENTS.
6. UTILIZE EXISTING SPARE 125A-3P CIRCUIT BREAKER TO SERVE NEW LOAD INDICATED. PROVIDE MICARTA PLACARDS WITH WHITE LETTERS ON BLACK BACKGROUND TO INDICATE LOAD SERVED. FIELD VERIFY EXACT REQUIREMENTS.
7. UTILIZE EXISTING SPARE 100A-3P CIRCUIT BREAKER TO SERVE NEW LOAD INDICATED. PROVIDE MICARTA PLACARDS WITH WHITE LETTERS ON BLACK BACKGROUND TO INDICATE LOAD SERVED. FIELD VERIFY EXACT REQUIREMENTS.

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CHICAGO, IL 60661
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E3.00

EXIT SIGN & EMERGENCY LIGHTING SCHEDULE

SYMBOL	TAG	DESCRIPTION	MOUNTING	LAMPS	VOLTAGE	MANUFACTURER & CATALOG NUMBER	ALTERNATIVE MANUFACTURER	NOTES
	EM1	SELF POWERED EMERGENCY EXIT SIGN, SINGLE FACE, DIE CAST ALUMINUM HOUSING WITH WHITE FINISH AND RED LETTERS, FIELD KNOCKOUT ARROWS AS REQUIRED	TOP OR END MOUNT	LED	UNV	LITHONIA LIGHTING #LQC-W-1-R-ELN	HLI DUAL-LITE, SIGNIFY CHLORIDE	1
	EM2	SELF POWERED EMERGENCY EXIT SIGN, SINGLE FACE, DIE CAST ALUMINUM HOUSING WITH WHITE FINISH AND RED LETTERS, FIELD KNOCKOUT ARROWS AS REQUIRED	WALL	LED	UNV	LITHONIA LIGHTING #LQC-W-1-R-ELN	HLI DUAL-LITE, SIGNIFY CHLORIDE	1
	EM3	DUAL HEAD EMERGENCY LIGHTING UNIT WITH WHITE CONTEMPORARY THERMOPLASTIC ENCLOSURE	SURFACE/ WALL	LED	UNV	LITHONIA LIGHTING #ELM4L-UVOLT-LTP-SDRT	HLI DUAL-LITE, SIGNIFY CHLORIDE	1

NOTES:
1. CONNECT ALL BATTERY LIGHT FIXTURES TO LOCAL UNSWITCHED NORMAL LIGHTING CIRCUIT.

GENERAL NOTES:
a. CONTRACTOR TO PROVIDE ALL NECESSARY MOUNTING HARDWARE AND LABOR FOR ALL DEVICES.
b. BATTERIES SHALL BE CAPABLE OF PROVIDING ILLUMINATION FOR A MINIMUM OF 90 MINUTES.
c. NOT ALL SYMBOLS WILL BE ACCOMPANIED BY TAGS ON THE FLOOR PLANS FOR CLARITY PURPOSES.

GENERAL NOTES:
a. ALL SENSOR LOCATIONS ARE APPROXIMATE, REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
b. ULTRASONIC CEILING MOUNT SENSORS SHOULD BE LOCATED A MINIMUM OF SIX FEET FROM HVAC SUPPLY/RETURN VENTS.
c. CONTRACTOR IS RESPONSIBLE FOR: PROPER SENSITIVITY & TIME DELAY SETTINGS (FOR NON-ADAPTIVE PRODUCTS) RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH IN RESPECT TO POWER PLACEMENT.
d. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS:
   - ONE POWER PACK IS REQUIRED FOR EACH CIRCUIT TO BE CONTROLLED.
   - ONE POWER PACK IS REQUIRED FOR EACH ZONE.
   - IF MULTIPLE CIRCUITS ARE TO BE CONTROLLED BY A SENSOR, AN AUXILIARY RELAY CAN BE USED IN CONJUNCTION WITH THE POWER PACK.
   - THE MAXIMUM NUMBER OF SENSORS THAT CAN BE PUT ON A POWER PACK IS TO BE REDUCED BY ONE FOR EACH SLAVE PACK USED.
e. MOUNT CONTROL UNITS WITHIN JUNCTION BOXES INSTALLED PER ALL CODE REQUIREMENTS.
f. CONTROL WIRING BETWEEN SENSORS AND CONTROLS UNITS SHALL BE CLASS II, 18-24 AWG, STRANDED UL CLASSIFIED. ALL CONTROL WIRING/CABLING SHALL BE PLENUM-RATED.
g. SENSORS MOUNTED OVER THE DOOR MUST BE PLACED ONE FOOT INSIDE THE THRESHOLD.
h. SENSOR PLACEMENT ON PLANS IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR ENGAGING A MANUFACTURER TO PRODUCE A MOTION SENSOR LAYOUT THAT IS COMPLIANT WITH THE GOVERNING ENERGY CODE.
i. CONTRACTOR IS RESPONSIBLE FOR ENSURING MOTION CONTROL OF ALL LOCATIONS SHOWN ON PLAN.
j. CONTRACTOR IS RESPONSIBLE FOR INSTALLING EQUIPMENT IN COMPLIANCE WITH LOCAL CODE.
k. PRODUCTS FROM SPECIFIED AND ACCEPTABLE MANUFACTURERS SHALL PROVIDE SAME LEVEL OF CONTROL.

LIGHTING CONTROL DEVICE SCHEDULE

SYMBOL	TYPE	DESCRIPTION	MOUNTING	MANUFACTURER & CATALOG NUMBER	ACCEPTABLE MANUFACTURERS
	osA	STANDARD RANGE 360°, LOW VOLTAGE, DUAL TECHNOLOGY	CEILING	ACUITY nLIGHT #nCM-PDT-9-RJB	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
	osB	EXTENDED RANGE 360°, LOW VOLTAGE, DUAL TECHNOLOGY	CEILING	ACUITY nLIGHT #nCM-PDT-10-RJB	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
	osC	STANDARD RANGE 360°, LOW VOLTAGE, PASSIVE INFRARED	CEILING	ACUITY nLIGHT #nCM-9-RJB	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
	osD	EXTENDED RANGE 360°, LOW VOLTAGE, PASSIVE INFRARED	CEILING	ACUITY nLIGHT #nCM-10-RJB	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
S	osE	WALL SWITCH SENSOR, LOW VOLTAGE, PASSIVE INFRARED	WALL	ACUITY nLIGHT #nWSXA-LV	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
S	osF	WALL SWITCH SENSOR, LOW VOLTAGE, DUAL TECHNOLOGY	WALL	ACUITY nLIGHT #nWSXA-PDT-LV	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
S	sA	ON/OFF SINGLE ZONE PUSH-BUTTON CONTROL STATION	WALL	ACUITY nLIGHT #nPODMA	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
S	sB	ON/OFF/DIM, SINGLE ZONE PUSH-BUTTON CONTROL STATION	WALL	ACUITY nLIGHT #nPODMA-DX	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
S	sC	ON/OFF/DIM KEY SWITCH CONTROL STATION	WALL	ACUITY nLIGHT #nPODA-KEY	HUBBELL LIGHTING CONTROLS, WATTSTOPPER

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	LAMPS	VOLTAGE	INPUT WATTS	MANUFACTURER & CATALOG NUMBER	ALTERNATE MANUFACTURER	NOTES
"F1A"	2'X2' LED RECESSED VOLUMENTRIC TROFFER, CURVED LINEAR PRISMS DIFFUSER, 3300 NOMINAL LUMENS	RECESSED	LED	277 V	26.5	LITHONIA LIGHTING #2BLT2-33L-ADP-GZ10-LP840	HLI COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	-
"F1B"	2'X2' LED RECESSED VOLUMENTRIC TROFFER, CURVED LINEAR PRISMS DIFFUSER, 4000 NOMINAL LUMENS	RECESSED	LED	277 V	31	LITHONIA LIGHTING #2BLT2-40L-ADP-GZ10-LP840	HLI COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	-
"F1C"	2'X2' LED RECESSED VOLUMENTRIC TROFFER, CURVED LINEAR PRISMS DIFFUSER, 4800 NOMINAL LUMENS	RECESSED	LED	277 V	42.9	LITHONIA LIGHTING #2BLT2-48L-ADP-GZ10-LP840	HLI COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	-
"F2A"	2'X4' LED RECESSED VOLUMENTRIC TROFFER, CURVED LINEAR PRISMS DIFFUSER, 4,000 NOMINAL LUMENS	RECESSED	LED	277 V	30.5	LITHONIA LIGHTING #2BLT4-40L-ADP-GZ10-LP840	HLI COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	-
"F2B"	2'X4' LED RECESSED VOLUMENTRIC TROFFER, CURVED LINEAR PRISMS DIFFUSER, 4,800 NOMINAL LUMENS	RECESSED	LED	277 V	39.3	LITHONIA LIGHTING #2BLT4-48L-ADP-GZ10-LP840	HLI COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	-
"F2C"	2'X4' LED RECESSED VOLUMENTRIC TROFFER, CURVED LINEAR PRISMS DIFFUSER, 6,000 NOMINAL LUMENS	RECESSED	LED	277 V	46.6	LITHONIA LIGHTING #2BLT4-60L-ADP-GZ10-LP840	HLI COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	-
"F3"	4' LED RECESSED DOWNLIGHT, 1000 NOMINAL LUMENS	RECESSED	LED	277 V	10.5	GOTHAM LIGHTING #IVO4SQS-D-40/10-40K-80CRI-WD-FL	HLI PRESCOLITE, SIGNIFY LIGHTOLIER	-
"F3A"	4' LED RECESSED DOWNLIGHT, 1500 NOMINAL LUMENS	RECESSED	LED	277 V	15.7	GOTHAM LIGHTING #IVO4SQS-D-40/10-40K-80CRI-WD-FL	HLI PRESCOLITE, SIGNIFY LIGHTOLIER	-
"F3B"	4' LED RECESSED DOWNLIGHT, 2000 NOMINAL LUMENS	RECESSED	LED	277 V	22.4	GOTHAM LIGHTING #IVO4SQS-D-40/10-40K-80CRI-WD-FL	HLI PRESCOLITE, SIGNIFY LIGHTOLIER	-
"F3C"	4' LED RECESSED DOWNLIGHT, 2500 NOMINAL LUMENS	RECESSED	LED	277 V	25	GOTHAM LIGHTING #IVO4SQS-D-40/15-40K-80CRI-WD-FL	HLI PRESCOLITE, SIGNIFY LIGHTOLIER	-
"F3D"	4' LED RECESSED DOWNLIGHT, 3000 NOMINAL LUMENS	RECESSED	LED	277 V	30.7	GOTHAM LIGHTING #IVO4SQS-D-40/30-40K-80CRI-WD-FL	HLI PRESCOLITE, SIGNIFY LIGHTOLIER	-
"F4A-12"	12' RECESSED LINEAR LED, 600 LUMENS/FT	RECESSED	LED	277 V	58.8	AXIS LIGHTING #BBRLED-600-80-40-0.5G-12	FOCAL POINT, LUMENWERX	-
"F4A-18"	18' RECESSED LINEAR LED, 600 LUMENS/FT	RECESSED	LED	277 V	88.2	AXIS LIGHTING #BBRLED-600-80-40-0.5G-18	FOCAL POINT, LUMENWERX	-
"F4A-18-EM"	18' RECESSED LINEAR LED, 600 LUMENS/FT, EMERGENCY POWER	RECESSED	LED	277 V	88.2	AXIS LIGHTING #BBRLED-600-80-40-0.5G-18	FOCAL POINT, LUMENWERX	-
"F4B-4"	4' RECESSED LINEAR LED, 800 LUMENS/FT	RECESSED	LED	277 V	26.2	AXIS LIGHTING #BBRLED-800-80-40-0.5G-4	FOCAL POINT, LUMENWERX	-
"F4B-8"	8' RECESSED LINEAR LED, 800 LUMENS/FT	RECESSED	LED	277 V	52.2	AXIS LIGHTING #BBRLED-800-80-40-0.5G-8	FOCAL POINT, LUMENWERX	-
"F4B-16"	16' RECESSED LINEAR LED, 800 LUMENS/FT	RECESSED	LED	277 V	104.4	AXIS LIGHTING #BBRLED-800-80-40-0.5G-16	FOCAL POINT, LUMENWERX	-
"F4B-18"	18' RECESSED LINEAR LED, 800 LUMENS/FT	RECESSED	LED	277 V	117.5	AXIS LIGHTING #BBRLED-800-80-40-0.5G-18	FOCAL POINT, LUMENWERX	-
"F4B-18-EM"	18' RECESSED LINEAR LED, 800 LUMENS/FT, EMERGENCY POWER	RECESSED	LED	277 V	117.5	AXIS LIGHTING #BBRLED-800-80-40-0.5G-18	FOCAL POINT, LUMENWERX	-
"F4B-20"	20' RECESSED LINEAR LED, 800 LUMENS/FT	RECESSED	LED	277 V	130.6	AXIS LIGHTING #BBRLED-600-80-40-0.5G-20	FOCAL POINT, LUMENWERX	-
"F4C-6"	6' RECESSED LINEAR LED, 1000 LUMENS/FT	RECESSED	LED	277 V	49	AXIS LIGHTING #BBRLED-1000-80-40-0.5G-6	FOCAL POINT, LUMENWERX	-
"F5"	THIN 4' RECESSED LINEAR LED, 800 LUMENS/FT	RECESSED	LED	277 V	29.1	MARK LIGHTING #S1RD-4FT-80CRI-40K-800LMF-DBW-FLLC	HLI LITECONTROL, SIGNIFY LEDALITE	-
"F5A"	THIN 4' RECESSED LINEAR LED, 1000 LUMENS/FT	RECESSED	LED	277 V	37.8	MARK LIGHTING #S1RD-4FT-80CRI-40K-1000LMF-DBW-FLLC	HLI LITECONTROL, SIGNIFY LEDALITE	-
"F6"	2'X2' LED RECESSED FLAT PANEL, CURVED LINEAR PRISMS DIFFUSER, 4800 NOMINAL LUMENS	RECESSED	LED	277 V	45	LITHONIA LIGHTING #EPANL-2X2-4800LM-80CRI-40K	HLI COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	-
"F7-47"	47' ASYMMETRICAL RECESSED LINEAR LED, EMERGENCY POWER	RECESSED	LED	277 V	263.2	PRUDENTIAL LIGHTING #BPRO3-FLSH-LED4-MO-47-PFL	FOCAL POINT, LUMENWERX	-
"F7-65"	65' ASYMMETRICAL RECESSED LINEAR LED, EMERGENCY POWER	RECESSED	LED	277 V	364	PRUDENTIAL LIGHTING #BPRO3-FLSH-LED4-MO-65-PFL	FOCAL POINT, LUMENWERX	-
"F8"	8' LED STRIP LIGHT, 8000 LUMENS	SURFACE	LED	277 V	51.1	LITHONIA LIGHTING #CLX-L96-8000LM-5EF-FDL-40K-80CRI	HLI COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	-
"F9-3"	3' LINEAR LED WRAPAROUND	SURFACE	LED	277 V	13.7	EUREKA LIGHTING #3545-36-WHE-LED.REG	-	-
"F9-4"	4' LINEAR LED WRAPAROUND	SURFACE	LED	277 V	17.6	EUREKA LIGHTING #3545-48-WHE-LED.REG	-	-
"F10"	18' RECESSED WALL WASH LINEAR LED, 600 LUMENS/FT	RECESSED	LED	277 V	57.6	AXIS LIGHTING #BBRLED-400-80-40-WW-20	FOCAL POINT, LUMENWERX	-
"F11"	DECORATIVE LED PENDANT	PENDANT	LED	277 V	20	EUREKA LIGHTING #4269-15-WHE-LED.REG	-	-
"F12"	DECORATIVE LED PENDANT	PENDANT	LED	120 V	24	SECTO DESIGN *KONTRO 6000	-	-
"F13-17"	17' RECESSED LINEAR LED, 400 LUMENS/FT	PENDANT	LED	277 V	54.4	AXIS LIGHTING #TB4DLED-400-80-40-50-17	FOCAL POINT, LUMENWERX	
"F13-25"	25' RECESSED LINEAR LED, 400 LUMENS/FT, EMERGENCY POWER	PENDANT	LED	277 V	83.1	AXIS LIGHTING #TB4DLED-400-80-40-50-25	FOCAL POINT, LUMENWERX	
"F13-26"	26' RECESSED LINEAR LED, 400 LUMENS/FT, EMERGENCY POWER	PENDANT	LED	277 V	86.4	AXIS LIGHTING #TB4DLED-400-80-40-50-26	FOCAL POINT, LUMENWERX	
"F13-28"	28' RECESSED LINEAR LED, 400 LUMENS/FT	PENDANT	LED	277 V	93	AXIS LIGHTING #TB4DLED-400-80-40-50-28	FOCAL POINT, LUMENWERX	
"F13-30"	30' RECESSED LINEAR LED, 400 LUMENS/FT	PENDANT	LED	277 V	99.6	AXIS LIGHTING #TB4DLED-400-80-40-50-30	FOCAL POINT, LUMENWERX	
"F13-32"	32' RECESSED LINEAR LED, 400 LUMENS/FT	PENDANT	LED	277 V	106.3	AXIS LIGHTING #TB4DLED-400-80-40-50-32	FOCAL POINT, LUMENWERX	
"F13-40"	40' RECESSED LINEAR LED, 400 LUMENS/FT	PENDANT	LED	277 V	132.9	AXIS LIGHTING #TB4DLED-400-80-40-50-40	FOCAL POINT, LUMENWERX	

NOTES:
1. CONTRACTOR TO PROVIDE ALL OPTIONS AND ACCESSORIES AS REQUIRED TO INSTALL LUMINAIRE IN VARYING CEILING TYPES AS SHOWN ON THE PLANS.
2. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT SUSPENSION LENGTHS.

GENERAL NOTES:
a. CONTRACTOR TO PROVIDE NECESSARY MOUNTING HARDWARE AND LABOR FOR LUMINAIRES.
b. LAY IN CEILING GRID LUMINAIRES SHALL BE FOR USE WITH STANDARD 15/16" GRID SYSTEM.
c. CEILING TYPES, FINISHES AND HEIGHTS MAY VARY. SEE ARCHITECTURAL RCP PLANS FOR MORE INFO. CONTRACTOR TO COORDINATE & PROVIDE PROPER MOUNTING HARDWARE, FLANGE, AND ACCESSORIES AS REQUIRED.
d. ALL FINISH COLORS AND COLOR TEMPERATURES TO BE CONFIRMED BY THE ARCHITECT.

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PANEL SCHEULE: "S/J2"(EX)					LOCATION:			C.B. RATING: VIF kAIC					
VOLT: 208/120V, 3Ø, 4W			MAINS: 225 A MLO		MOUNTING: SURFACE			TYPE: BOLT-ON					
REMARKS:													
				V.A.									
USE AND/OR AREA SERVED	C/B		CIR. NO.	A	B	C	CIR. NO.	C/B		USE AND/OR AREA SERVED			
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R: D166 OFFICE SUITE	20 A	1P	31	540				--					
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R: D166 OFFICE SUITE	20 A	1P	33		540			--					
		--			180		34	1P	20 A	R: D167 TRAINER CONTROL			
R: D166B OFFICE	20 A	1P	35			540		--					
		--				720	36	1P	20 A	R: D167 EMS LAB			
R: D166B OFFICE	20 A	1P	37	720				--					
		--		1080			38	1P	20 A	R: D167 EMS LAB			
R: D166A OFFICE	20 A	1P	39		540			--					
		--			720		40	1P	20 A	R: D167B.1+D167B.2			
R: D166A OFFICE	20 A	1P	41			720		--					
		--				900	42	1P	20 A	R: D167B MOCK APARTMENT			
TOTAL CONNECTED LOAD PER PHASE:				2520	1980	3060	TOTAL = 7,560 VA						
							20.98 AMPS						

PANEL SCHEULE: "S/H"(EX)					LOCATION:			C.B. RATING: VIF kAIC					
VOLT: 208/120V, 3Ø, 4W			MAINS: 100 A MLO		MOUNTING: SURFACE			TYPE: BOLT-ON					
REMARKS:													
				V.A.									
USE AND/OR AREA SERVED	C/B		CIR. NO.	A	B	C	CIR. NO.	C/B		USE AND/OR AREA SERVED			
			1					--					
		--					2						
			3					--					
		--					4						
			5					--					
		--					6						
			7					--					
		--					8						
			9					--					
		--					10						
			11					--					
		--					12						
			13					--					
		--					14						
			15					--					
		--					16						
			17					--					
		--					18						
			19					--					
		--					20						
			21					--					
		--					22						
			23					--					
		--					24						
R: D151 COPIER	20 A	1P	25	1200				--					
		--		720			26	1P	20 A	R: D151A + D151E			
S: SPARE	20 A	1P	27		0			--					
		--			0		28	1P	20 A	S: SPARE			
			29					--					
		--					30						
			31					--					
		--					32						
			33					--					
		--					34						
			35					--					
		--					36						
TOTAL CONNECTED LOAD PER PHASE:				1920	0	0	TOTAL = 1,920 VA						
							5.33 AMPS						

SPARE CIRCUIT BREAKER NOTE:
PROVIDE A MINIMUM OF (6) SPARE 20A-1P CIRCUIT BREAKERS IN NEW ELECTRICAL PANELS.

PANEL SCHEDULE NOTE:
SCHEDULES FOR EXISTING PANELS ARE SHOWN FOR REFERENCE TO INDICATE SIZE AND QUANTITY OF NEW CIRCUIT BREAKERS REQUIRED. CONTRACTOR TO FIELD VERIFY EXISTING PANEL CHARACTERISTICS AND BRANCH CIRCUIT BREAKER LAYOUT.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL SCHEDULES

SHEET NUMBER:
E4.10

10/16/2024 2:08:21 PM

PANEL SCHEULE: "I/GG"

LOCATION: STOR A212E | C.B. RATING: 14 kAIC

VOLT: 480/277V, 3Ø, 4W | MAINS: 100 A MCB | MOUNTING: SURFACE | TYPE: BOLT-ON

REMARKS: NEW REPLACEMENT PANEL.

USE AND/OR AREA SERVED	C/B	CIR. NO.	V.A. A	V.A. B	V.A. C	CIR. NO.	C/B	USE AND/OR AREA SERVED
		1					--	
	--					2		
		3					--	
	--					4		
		5					--	
	--					6		
		7					--	
	--					8		
		9					--	
	--					10		
		11					--	
	--					12		
L: TUTORING LINEARS	20 A 1P	13	656				--	
	--		2041			14	1P	20 A L: LIBRARY NORTH
L: TUTORING	20 A 1P	15		1714			--	
	--			1393		16	1P	20 A L: COMPUTERS + CORRIDOR
L: STACKS + CLASSROOM	20 A 1P	17			2184		--	
	--					18		
		19					--	
	--					20		
		21					--	
	--					22		
		23					--	
	--					24		
		25					--	
	--					26		
		27					--	
	--					28		
		29					--	
	--					30		
TOTAL CONNECTED LOAD PER PHASE:			2697	3107	2184	TOTAL =		7,988 VA
						9.61		AMPS

PANEL SCHEULE: "I/S"

LOCATION: STORAGE A210D | C.B. RATING: 10 kAIC

VOLT: 208/120V, 3Ø, 4W | MAINS: 125 A MCB | MOUNTING: SURFACE | TYPE: BOLT-ON

REMARKS: NEW PANEL.

USE AND/OR AREA SERVED	C/B	CIR. NO.	V.A. A	V.A. B	V.A. C	CIR. NO.	C/B	USE AND/OR AREA SERVED
R: A210.2 COMPUTER COPIER	20 A 1P	1	1200				--	
	--		720			2	1P	20 A R: A210.4 CIRCULATION
R: A210.2 COMPUTER COPIER	20 A 1P	3		1200			--	
	--			360		4	1P	20 A R: A210.4 CIRCULATION
R: A210.2 COMPUTER COPIER	20 A 1P	5			1200		--	
	--				720	6	1P	20 A R: A210.4 CIRCULATION
R: A210.2 COMPUTER CENTER	20 A 1P	7	360				--	
	--		720			8	1P	20 A R: A210.4 CIRCULATION
R: A210.2 COMPUTER CENTER	20 A 1P	9		540			--	
	--			540		10	1P	20 A R: A210.4 CIRCULATION
R: A210.2 COMPUTER FLOOR	20 A 1P	11			360		--	
	--				1000	12	1P	20 A R: A210.4 CIRCULATION CART
R: A210.2 COMPUTER FLOOR	20 A 1P	13	360				--	
	--		1000			14	1P	20 A R: A210.4 CIRCULATION CART
R: A210.2 COMPUTER FLOOR	20 A 1P	15		360			--	
	--			1080		16	1P	20 A R: A210.4 CIRCULATION
R: A210.2 COMPUTER FLOOR	20 A 1P	17			360		--	
	--				720	18	1P	20 A R: A210E TECH PROCESSING
R: A210.2 COMPUTER FLOOR	20 A 1P	19	720				--	
	--		540			20	1P	20 A R: A210D STORAGE
R: A210.3 IT HELP DESK...	20 A 1P	21		360			--	
	--			900		22	1P	20 A R: A210C DIRECTOR'S OFFICE
R: A210.3 IT HELP DESK	20 A 1P	23			720		--	
	--				900	24	1P	20 A R: A210F OFFICE
R: A210.3 IT HELP DESK	20 A 1P	25	360				--	
	--		900			26	1P	20 A R: A210G OFFICE
R: A210.3 IT HELP DESK	20 A 1P	27		720			--	
	--			900		28	1P	20 A R: A210H OFFICE
R: A210B OFFICE	20 A 1P	29			720		--	
	--				900	30	1P	20 A R: A210K OFFICE
R: A210A MEETING ROOM	20 A 1P	31	900				--	
	--		900			32	1P	20 A R: A210K OFFICE
R: A210 LIBRARY POLES	20 A 1P	33		720			--	
	--			1080		34	1P	20 A R: A210L LIBRARY STACKS
R: A210 LIBRARY NORTH	20 A 1P	35			360		--	
	--				540	36	1P	20 A R: A210L LIBRARY STACKS
R: A210 LIBRARY COPIER	20 A 1P	37	1200				--	
	--		540			38	1P	20 A R: A210L LIBRARY STACKS
R: A210 LIBRARY WEST	20 A 1P	39		900			--	
	--			1440		40	1P	20 A M: FPB-A212.3
M: FPB-A212K	20 A 1P	41			1440		--	
	--				1440	42	1P	20 A M: FPB-A210
M: FPB-A210.4	20 A 1P	43	1440				--	
	--		744			44	1P	15 A M: FPB-A210.B
M: FPB-A210.F	15 A 1P	45		1152			--	
	--			1440		46	1P	20 A M: FPB-A210.2
M: FPB-A210.L	20 A 1P	47			1440		--	
	--				144	48	1P	20 A L: CIRCULATION A212.1 DESK
		49					--	
	--					50		
		51					--	
	--					52		
		53					--	
	--					54		
		55					--	
	--					56		
		57					--	
	--					58		
		59					--	
	--					60		
TOTAL CONNECTED LOAD PER PHASE:			12604	13692	12964	TOTAL =		39,260 VA
						108.97		AMPS

PANEL SCHEULE: "I/R"

LOCATION: STOR A212E | C.B. RATING: 10 kAIC

VOLT: 208/120V, 3Ø, 4W | MAINS: 100 A MCB | MOUNTING: SURFACE | TYPE: BOLT-ON

REMARKS: NEW PANEL.

USE AND/OR AREA SERVED	C/B	CIR. NO.	V.A. A	V.A. B	V.A. C	CIR. NO.	C/B	USE AND/OR AREA SERVED
R: A212A OFFICE	20 A 1P	1	900				--	
	--		900			2	1P	20 A R: A212K CLASSROOM
R: A212B OFFICE	20 A 1P	3		900			--	
	--			900		4	1P	20 A R: A212K CLASSROOM
R: A212C OFFICE	20 A 1P	5			900		--	
	--				180	6	1P	20 A R: A212K CLASSROOM CART
R: A212D OFFICE	20 A 1P	7	1080				--	
	--		720			8	1P	20 A R: A212K CLASSROOM DESK
R: A212F GROUP STUDY	20 A 1P	9		900			--	
	--			744		10	1P	15 A M: FPB-A212.A
R: A212G GROUP STUDY	20 A 1P	11			720		--	
	--				1440	12	1P	20 A M: FPB-A212.1
R: A212H GROUP STUDY	20 A 1P	13	900				--	
	--		744			14	1P	15 A M: FPB-A212.F
R: A212J BREAKROOM FRIDGE	20 A 1P	15		1200			--	
	--			1440		16	1P	20 A M: FPB-A212.2
R: A212J BREAKROOM	20 A 1P	17			360		--	
	--				720	18	1P	20 A R: A212 TUTORING FLOOR
R: A212J BREAKROOM	20 A 1P	19	540				--	
	--		720			20	1P	20 A R: A212 TUTORING FLOOR
R: A212 TUTORING DESK	20 A 1P	21		720			--	
	--					22		
R: A212 TUTORING DESK	20 A 1P	23			720		--	
	--					24		
R: A212 TUTORING CARTS	20 A 1P	25	1000				--	
	--					26		
R: A212 TUTORING SOUTH	20 A 1P	27		540			--	
	--					28		
R: A212 TUTORING SOUTH	20 A 1P	29			1080		--	
	--					30		
R: A212 TUTORING WEST	20 A 1P	31	540				--	
	--					32		
R: A212 TUTORING POLES	20 A 1P	33		720			--	
	--					34		
R: A212 TUTORING CENTER	20 A 1P	35			720		--	
	--					36		
R: A212 TUTORING CARTS	20 A 1P	37	1000				--	
	--					38		
R: A212 TUTORING CARTS	20 A 1P	39		1000			--	
	--					40		
		41					--	
	--					42		
TOTAL CONNECTED LOAD PER PHASE:			9044	9064	6840	TOTAL =		24,948 VA
						69.25		AMPS

SPARE CIRCUIT BREAKER NOTE:
PROVIDE A MINIMUM OF (6) SPARE 20A-1P CIRCUIT BREAKERS IN NEW ELECTRICAL PANELS.

PANEL SCHEDULE NOTE:
SCHEDULES FOR EXISTING PANELS ARE SHOWN FOR REFERENCE TO INDICATE SIZE AND QUANTITY OF NEW CIRCUIT BREAKERS REQUIRED. CONTRACTOR TO FIELD VERIFY EXISTING PANEL CHARACTERISTICS AND BRANCH CIRCUIT BREAKER LAYOUT.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL SCHEDULES

SHEET NUMBER:
E4.20

10/16/2024 2:08:22 PM

INTERIOR LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	LAMPS	VOLTAGE	INPUT WATTAGE	MANUFACTURER & CATALOG NUMBER	ALTERNATE BID MANUFACTURER	NOTES
"F1"	2'X2' LAY-IN LED PANEL	RECESSED	LED	UNV.	30.1	LITHONIA LIGHTING #CPX-2X2-3200LM-80CRI-40K-SWL-MINI0-ZT-MVOLT	HLI COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	1

NOTES:
1. CONTRACTOR TO PROVIDE ALL OPTIONS AND ACCESSORIES AS REQUIRED TO INSTALL LUMINAIRES IN VARYING CEILING TYPES AS SHOWN ON THE PLANS.

GENERAL NOTES:
a. CONTRACTOR TO PROVIDE ALL NECESSARY MOUNTING HARDWARE AND LABOR FOR ALL LUMINAIRES.
b. ALL LAY-IN CEILING GRID LUMINAIRES SHALL BE SUITABLE FOR USE WITH SPECIFIED CEILING GRID SYSTEM.
c. ALL FINISH COLORS AND COLOR TEMPERATURES TO BE CONFIRMED BY THE ARCHITECT.

EXIT SIGN & EMERGENCY LIGHTING SCHEDULE

SYMBOL	TAG	DESCRIPTION	MOUNTING	LAMPS	VOLTAGE	MANUFACTURER & CATALOG NUMBER	ALTERNATE BID MANUFACTURER	NOTES
	"EM1"	DUAL HEAD EMERGENCY LIGHTING UNIT WITH WHITE CONTEMPORARY THERMOPLASTIC ENCLOSURE	CEILING	LED	UNV.	LITHONIA LIGHTING #ELM6L-UVOLT-LTP-SDRT	HLI DUAL-LITE, SIGNIFY CHLORIDE	1

SCHEDULE NOTES:
1. CONNECT BATTERY UNIT TO LOCAL UNSWITCHED LIGHTING CIRCUIT.

GENERAL NOTES:
a. CONTRACTOR TO PROVIDE ALL NECESSARY MOUNTING HARDWARE AND LABOR FOR ALL LUMINAIRES.
b. BATTERIES SHALL BE CAPABLE OF PROVIDING ILLUMINATION FOR A MINIMUM OF 90 MINUTES.
c. NOT ALL SYMBOLS WILL BE ACCOMPANIED BY TAGS ON THE PLANS FOR CLARITY PURPOSES.

PANEL SCHEDULE NOTE:
SCHEDULES FOR EXISTING PANELS ARE SHOWN FOR REFERENCE TO INDICATE SIZE AND QUANTITY OF NEW CIRCUIT BREAKERS REQUIRED. CONTRACTOR TO FIELD VERIFY EXISTING PANEL CHARACTERISTICS AND BRANCH CIRCUIT BREAKER LAYOUT.

PANEL SCHEDULE: "6A" — LOCATION: SERVER ROOM — C.B. RATING: VIFk.A.I.C.
VOLT: 480/277V-3PH-4W — MAINS: 100A MLO — MOUNTING: SURFACE — TYPE: BOLT-ON
REMARKS: EXISTING PANEL MANUFACTURED BY 'EATON'.

USE AND/OR AREA SERVED	C/B	CIR. NO.	VA øA	VA øB	VA øC	CIR. NO.	C/B	USE AND/OR AREA SERVED
EXISTING LOAD	40	1	388	–		2	15	M: ACC-2 △
		3	–	388		4		
		5		–	388	6	3	
□ M: ACC-1	15	7	388	–		8		BUSSED SPACE
		9	–	388		10		BUSSED SPACE
		11		–	388	12		BUSSED SPACE
BUSSED SPACE		13	–	–		14		BUSSED SPACE
BUSSED SPACE		15		–	–	16		BUSSED SPACE
BUSSED SPACE		17	–		–	18		BUSSED SPACE
BUSSED SPACE		19	–	–		20		BUSSED SPACE
BUSSED SPACE		21		–	–	22		BUSSED SPACE
BUSSED SPACE		23	–		–	24		BUSSED SPACE
BUSSED SPACE		25	–	–		26		BUSSED SPACE
BUSSED SPACE		27		–	–	28		BUSSED SPACE
BUSSED SPACE		29	–		–	30		BUSSED SPACE
TOTAL CONNECTED LOAD PER PHASE:		776	776	776	TOTAL V.A. = 2,328			2.80 AMPS

□ - PROVIDE NEW CIRCUIT BREAKER OF TYPE AND AIC RATING TO MATCH EXISTING PANEL TO SERVE NEW LOAD AS INDICATED. UTILIZE EXISTING BUSSED SPACE FOR INSTALLATION OF NEW CIRCUIT BREAKER.
△ - UTILIZE EXISTING SPARE CIRCUIT BREAKER OR CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION WORK TO SERVE NEW LOAD AS INDICATED.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

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20/10 ENGINEERING GROUP, LLC
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P: 847.882.2010F: 847.882.2201

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ELECTRICAL SYMBOL LIST AND SCHEDULES - ALTERNATE #3

SHEET NUMBER:
E4.30

ELECTRICAL ABBREVIATIONS

A	AMPERES	GFPI	GROUND FAULT PROTECTIVE EQUIPMENT	TP	TAMPER PROOF
AFCI	ARC FAULT CIRCUIT INTERRUPTER	HP	HORSEPOWER	TYP.	TYPICAL
A.F.F.	ABOVE FINISHED FLOOR	I.T.	INFORMATION TECHNOLOGY	U.N.O.	UNLESS NOTED OTHERWISE
C	CONDUIT	KCM	THOUSAND CIRCULAR MILS	V	VOLTS
C/B	CIRCUIT BREAKER	MAX	MAXIMUM	VA	VOLT - AMPERES
CT	CURRENT TRANSFORMER	MCA	MINIMUM CIRCUIT AMPS	W	WATTS
CU	COPPER	MCB	MAIN CIRCUIT BREAKER	WG	WIRE GUARD
EC	ELECTRICAL CONTRACTOR	MIN	MINIMUM	WP	WEATHER PROOF
EM	EMERGENCY	MLO	MAIN LUGS ONLY	XFMR	TRANSFORMER
FLA	FULL LOAD AMPS	MOCP	MAXIMUM OVERCURRENT PROTECTION	1P	SINGLE POLE
G, GRD.	GROUND	PT	POTENTIAL TRANSFORMER	2P	TWO POLE
GFI	GROUND FAULT CIRCUIT INTERRUPTER	SPD	SURGE PROTECTIVE DEVICE	3P	THREE POLE
				Ø	PHASE

DEMOLITION SYMBOLS

SYMBOL	DESCRIPTION
X	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO REMAIN.
R	EXISTING ELECTRICAL EQUIPMENT, OUTLET OR JUNCTION BOX TO BE REMOVED.
XRR	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE REMOVED, RELOCATED AND JUNCTION BOX REMOVED OR CAPPED AS REQUIRED. STORE AND PROTECT EXISTING DEVICE FOR RE-USE AND RE-INSTALLATION.
XR	EXISTING ELECTRICAL EQUIPMENT OR OUTLET RELOCATED (NEW LOCATION). EXTEND EXISTING FEED AS REQUIRED TO MAINTAIN DEVICE/EQUIPMENT OPERATION. PROVIDE NEW FEED OF MATCHING SPECIFICATIONS IN SITUATIONS WHERE THEY CANNOT BE SPLICED OR ARE NOT OF SUFFICIENT LENGTH TO REACH NEW LOCATION.
XC	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE REMOVED AND JUNCTION BOX CAPPED OR REUSED AS REQUIRED.
XO	NEW ELECTRICAL EQUIPMENT INSTALLED OVER EXISTING OUTLET.
XA	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE ABANDONED.
XM	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE MODIFIED.
XW	EXISTING ELECTRICAL EQUIPMENT TO BE REWIRED.
XRT	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE TEMPORARILY REMOVED AND REINSTALLED IN SAME LOCATION.

NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT.

GENERAL NOTE:
CONTRACTOR SHALL MAINTAIN FIRE RATING OF ALL PARTITIONS FOR NEW PENETRATIONS. ANY PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROPERLY SEALED AND TREATED TO MAINTAIN THE FIRE STOPPING RATING OF THE WALL. CABLING SHALL NOT PENETRATE WALLS UNLESS ROUTED THROUGH RACEWAY SYSTEM OR ROUTED ABOVE ACCESSIBLE CEILINGS THROUGH METALLIC CONDUIT SLEEVES, EXTENDING A MINIMUM OF 6" EACH SIDE OF THE WALL WITH PROTECTIVE END BUSHINGS TO PREVENT DAMAGE TO CABLES. VOIDS AROUND SLEEVES SHALL BE SEALED WITH APPROPRIATE MATERIALS AS TO MAINTAIN THE ACOUSTIC OR FIRE RATING OF WALLS ABOVE AND BELOW CEILINGS. CABLES RAN THROUGH VOIDS WITHOUT SLEEVES OR RACEWAYS WILL NOT BE ACCEPTABLE. CONTRACTOR SHALL VERIFY EXISTING FIRE PARTITIONS IN THE FIELD.

GENERAL NOTE:
INCIDENTAL WORK MAY ALSO BE NECESSARY DUE TO CHANGES AFFECTING, FIRE ALARM, ELECTRICAL, OR OTHER SYSTEMS. SUCH INCIDENTAL WORK IS ALSO PART OF THIS CONTRACT. INSPECT THOSE AREAS, ASCERTAIN WORK NEEDED, AND DO THAT WORK IN ACCORD WITH THE CONTRACT REQUIREMENTS, AT NO ADDITIONAL COST. THE REMOVAL & REINSTALLATION OF EXISTING WORK TO ACCOMMODATE CHANGES TO EXISTING, OR INSTALLATION OF, ELECTRICAL, OTHER SYSTEMS IS ALSO PART OF THIS CONTRACT.

GENERAL NOTE:
REFER TO ARCHITECTURAL FLOOR PLANS FOR ADDITIONAL INFORMATION REGARDING MOUNTING HEIGHTS AND LOCATIONS OF ELECTRICAL DEVICES BEFORE ROUGH-IN.

WHERE CONFLICTS BETWEEN ELECTRICAL & ARCHITECTURAL ELEVATIONS ARISE, CONTRACTOR TO VERIFY WITH ARCHITECT/ENGINEER TEAM PRIOR TO ROUGH-IN.

GENERAL NOTE:
EXISTING CONDITIONS WERE OBTAINED FROM EXISTING AS-BUILT DRAWINGS AND CURSORY FIELD OBSERVATION. THIS CONTRACTOR SHALL IDENTIFY ANY DISCREPANCIES IN THE FIELD AND REPORT THEM TO THE ENGINEER.

BIDDING NOTE:
SEE DRAWING ME1.00 FOR GENERAL NOTES AND ADDITIONAL DETAILS APPLICABLE TO THIS TRADE'S WORK.

ELECTRICAL SYMBOL LIST (NOTE: NOT ALL SYMBOLS ARE USED IN THE PROJECT.)

- 2' X 4' LUMINAIRE, RECESSED OR SURFACE MOUNTED PER LUMINAIRE SCHEDULE.
- 1' X 4' LUMINAIRE, RECESSED OR SURFACE MOUNTED PER LUMINAIRE SCHEDULE.
- 2' X 2' LUMINAIRE, RECESSED OR SURFACE MOUNTED PER LUMINAIRE SCHEDULE.
- HALF SHADING DENOTES FIXTURE UNSWITCHED "NIGHTLIGHT".
- STRIP LUMINAIRE PER LUMINAIRE SCHEDULE.
- WALL MOUNTED LUMINAIRE PER LUMINAIRE SCHEDULE.
- RECESSED OR SURFACE CEILING MOUNTED LUMINAIRE PER LUMINAIRE SCHEDULE.
- (WG) ILLUMINATED EXIT OR STAIR SIGN, SURFACE CEILING MOUNTED, SINGLE OR DOUBLE FACE, WITH OR WITHOUT DIRECTIONAL ARROWS PER SCHEDULE.
  - "WG" DENOTES WIRE GUARD.
- (WG) ILLUMINATED EXIT OR STAIR SIGN, SURFACE WALL MOUNTED, SINGLE OR DOUBLE FACE, WITH OR WITHOUT DIRECTIONAL ARROWS SCHEDULE.
  - "WG" DENOTES WIRE GUARD.
- (WG) SELF-CONTAINED EMERGENCY LUMINAIRE, WITH BATTERY BACK-UP AND SOLID STATE CHARGER PER SCHEDULE.
  - "WG" DENOTES WIRE GUARD.
- (WG) SELF-CONTAINED EMERGENCY LUMINAIRE WITH DUAL WEATHERPROOF REMOTE HEADS, BATTERY BACK-UP AND SOLID STATE CHARGER PER SCHEDULE.
  - "WG" DENOTES WIRE GUARD.
- (K) SINGLE POLE 20 AMP 120-277 VOLT TOGGLE SWITCH INSTALLED 48" A.F.F.
  - "K" DENOTES KEYED SWITCH.
- (K) THREE-WAY 20 AMP 120-277 VOLT TOGGLE SWITCH INSTALLED 48" A.F.F.
  - "K" DENOTES KEYED SWITCH.
- M MOMENTARY CONTACT SWITCH (LOW VOLTAGE) INSTALLED 48" A.F.F.
- D SLIDE DIMMER CONTROL. DECORA STYLE COMPATIBLE WITH LUMINAIRE AND DIMMING BALLAST/DRIVER TYPES INSTALLED 48" A.F.F.
- PL SINGLE POLE 20 AMP 120/277 VOLT TOGGLE SWITCH WITH PILOT LIGHT INSTALLED 48" A.F.F.
- OS WALL MOUNT COMBINATION OCCUPANCY SENSOR AND SWITCH AS SCHEDULED.
- A OCCUPANCY SENSOR, LETTER INDICATES MODEL AND TYPE PER SCHEDULE.
- ELECTRICAL DEVICE MOUNTED ON SURFACE RACEWAY, WIREMOLD V700 U.N.O.
- SURFACE MOUNTED (EXPOSED) CONDUIT, BACKBOX FOR DEVICE AS SHOWN.
- (GFI,USB,WP) 20A. 2P, 3 WIRE, GROUNDING TYPE, 125V. SPECIFICATION-GRADE, TAMPER-RESISTANT TYPE DUPLEX RECEPTACLE NEMA 5-20R INSTALLED +16" A.F.F. UNLESS NOTED OTHERWISE.
  - "GFI" DENOTES RECEPTACLE EQUIPPED WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER.
  - "USB" DENOTES RECEPTACLE EQUIPPED WITH (2) USB PORTS.
  - "WP" DENOTES WEATHER-RESISTANT RECEPTACLE WITH LOW-PROFILE WHILE-IN-USE WEATHERPROOF COVER.
- (GFI,USB) 20A. 2P, 3 WIRE, GROUNDING TYPE, 125V. SPECIFICATION-GRADE, TAMPER-RESISTANT TYPE DUPLEX RECEPTACLE NEMA 5-20R INSTALLED 6" ABOVE COUNTER TOP OR +42" A.F.F. UNLESS NOTED OTHERWISE.
  - "GFI" DENOTES RECEPTACLE EQUIPPED WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER.
  - "USB" DENOTES RECEPTACLE EQUIPPED WITH (2) USB PORTS.
- (GFI,USB) TWO 20A. 2P, 3 WIRE, GROUNDING TYPE, SPECIFICATION-GRADE, TAMPER-RESISTANT TYPE DUPLEX RECEPTACLES NEMA 5-20R INSTALLED +16" A.F.F. UNLESS NOTED OTHERWISE.
  - "GFI" DENOTES RECEPTACLE EQUIPPED WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER.
  - "USB" DENOTES RECEPTACLE EQUIPPED WITH (2) USB PORTS.
- SIMPLEX RECEPTACLE.
- SPECIAL RECEPTACLE, NEMA CONFIGURATION AS NOTED IN THE PLAN.
- POWER OUTLET, CEILING MOUNTED.
- (DV) COMBINATION POWER/INFORMATION OUTLET, CEILING MOUNTED.
- HIGH CAPACITY MULTISERVICE (WITH DIVIDER/PARTITIONS) FLUSH FLOOR BOX. REFER TO PLANS AND DETAILS FOR QUANTITIES AND CONFIGURATIONS.
- METER.
- CIRCUIT BREAKER PANELBOARD.
- T DRY TYPE TRANSFORMER WITH 4" CONCRETE HOUSEKEEPING PAD.
- DISTRIBUTION PANEL.
- NON-FUSED SAFETY DISCONNECT SWITCH, AMPERE RATING AND NUMBER OF POLES AS NOTED.
- FUSED DISCONNECT SWITCH, AMPERE RATING, NUMBER OF POLES AND FUSE SIZE AS NOTED.
- COMBINATION MOTOR STARTER WITH FUSED DISCONNECT, AMPERE RATING, NUMBER OF POLES, FUSE SIZE AND NEMA STARTER SIZE AS INDICATED.
  - 30/3/30/3R NEMA 00
    - SWITCH FRAME SIZE.
    - NUMBER OF FUSIBLE POLES.
    - FUSE SIZE.
    - NEMA ENCLOSURE RATING. (NEMA 1 STANDARD, 3R OUTDOORS AND WET LOCATIONS U.N.O.)
    - FUSIBLE SWITCH RATING TAG.
    - NEMA STARTER SIZE.
- ENCLOSED CIRCUIT BREAKER.
- MOTOR.
- T MANUAL MOTOR STARTER, THERMAL OVERLOAD TOGGLE SWITCH.
- CEILING JUNCTION BOX.
- WALL MOUNTED JUNCTION BOX.
- JUNCTION BOX WITH FLEXIBLE CONDUIT FOR FINAL CONNECTION TO EQUIPMENT.
- THERMOSTAT, PROVIDE RECESSED JUNCTION BOX AND CONDUIT STUB-UP, REFER TO MECHANICAL FOR EXACT QUANTITY AND LOCATION.
- CO2 CO2 SENSOR, PROVIDE RECESSED JUNCTION BOX AND CONDUIT STUB-UP, REFER TO MECHANICAL FOR EXACT QUANTITY AND LOCATION.
- (DAS,BDA) RADIO ANTENNA.
  - "DAS" DENOTES DISTRIBUTED ANTENNA SYSTEM FOR CELLULAR NETWORK.
  - "BDA" DENOTES BI-DIRECTIONAL ANTENNA FOR PUBLIC SAFETY RADIO.

- CONDUIT ROUTED CONCEALED IN WALLS AND CEILING. HASH MARKS DENOTE QUANTITY OF #12 MINIMUM AWG CONDUCTORS OR AS NOTED.
- CONDUIT ROUTED EXPOSED. INSTALL PARALLEL TO WALLS AND CEILINGS. HASH MARKS DENOTE QUANTITY OF #12 MINIMUM AWG CONDUCTORS OR AS NOTED.
- CONDUIT ROUTED BELOW GRADE. HASH MARK DENOTES QUANTITY OF #12 MINIMUM AWG CONDUCTORS OR AS NOTED.
- DENOTES CONDUIT HOMERUN, 3/4" MINIMUM, PANEL DESTINATION AND CIRCUIT NUMBER(S) AS INDICATED.
  - SHORT TICK MARK DENOTES LINE (HOT) OR SWITCH LEG CONDUCTOR, #12 MINIMUM AWG.
  - LONG TICK MARK DENOTES NEUTRAL CONDUCTOR, #10 AWG MINIMUM.
  - DENOTES INSULATED GROUND WIRE, #12 AWG MINIMUM.
- CONDUIT END CAP.
- CONDUIT WALL SLEEVES FOR ROUTING OF LOW VOLTAGE CABLING. EACH PENETRATION IS TO PROVIDE A MINIMUM OF (1) 1 1/4" CONDUIT (DATA) & (1) 1" CONDUIT (FIRE ALARM/INTERCOM) U.N.O.
- DATA OUTLET LOCATION INSTALLED 16" A.F.F. U.N.O.
- TELEPHONE OUTLET LOCATION INSTALLED 16" A.F.F. U.N.O.
- DATA OUTLET LOCATION INSTALLED 42" A.F.F. U.N.O.
- TELEPHONE OUTLET LOCATION INSTALLED 42" A.F.F. U.N.O.
- DATA OUTLET LOCATION, CEILING MOUNTED.
- S FLUSH CEILING SPEAKER, ROUND OR SQUARE.
- (AV) WEATHERPROOF PROJECTION TYPE WALL MOUNTED SPEAKER.
  - "AV" DENOTES PART OF AUDIO-VIDEO SYSTEM.
- (AV) WALL MOUNTED SPEAKER.
  - "AV" DENOTES PART OF AUDIO-VIDEO SYSTEM.
- BATTERY OPERATED CLOCK, CONNECTED WIRELESSLY TO A MASTER CLOCK SYSTEM.
- COMBINATION CLOCK/SPEAKER, COMPATIBLE WITH EXISTING INTERCOM SYSTEM, IN COMMON ENCLOSURE.
- VOLUME CONTROL SWITCH INSTALLED 48" A.F.F. TO TOP OF DEVICE.
- CALL SWITCH, COMPATIBLE WITH EXISTING INTERCOM SYSTEM, INSTALLED 48" A.F.F. TO TOP OF DEVICE.
- WAP CEILING MOUNTED WIRELESS ACCESS POINT.
- TV TELEVISION CONNECTION PLATE INSTALLED 96" A.F.F. U.N.O.
- AV AUDIO/VIDEO CONNECTION PLATE INSTALLED 16" A.F.F. U.N.O.
- AV AUDIO/VIDEO CONNECTION PLATE, CEILING MOUNTED.
- FA FIRE ALARM SYSTEM PULL STATION INSTALLED 48" A.F.F.
- (WG) FIRE ALARM SYSTEM STROBE NOTIFICATION DEVICE INSTALLED 80" A.F.F.
  - "WG" DENOTES WIRE GUARD.
- (WG) FIRE ALARM SYSTEM STROBE NOTIFICATION DEVICE INSTALLED 80" A.F.F.
  - "WG" DENOTES WIRE GUARD.
- (WG) FIRE ALARM SYSTEM SPEAKER NOTIFICATION DEVICE INSTALLED 80" A.F.F.
  - "WG" DENOTES WIRE GUARD.
- (WG) FIRE ALARM SYSTEM SPEAKER/STROBE NOTIFICATION DEVICE INSTALLED 80" A.F.F.
  - "WG" DENOTES WIRE GUARD.
- (WG) FIRE ALARM SYSTEM SPEAKER/STROBE NOTIFICATION DEVICE, CEILING MOUNTED.
  - "WG" DENOTES WIRE GUARD.
- (WG) FIRE ALARM SYSTEM SPEAKER NOTIFICATION DEVICE, CEILING MOUNTED.
  - "WG" DENOTES WIRE GUARD.
- (WG) FIRE ALARM SYSTEM STROBE NOTIFICATION DEVICE, CEILING MOUNTED.
  - "WG" DENOTES WIRE GUARD.
- (WG) FIRE ALARM SYSTEM HORN NOTIFICATION DEVICE, CEILING MOUNTED.
  - "WG" DENOTES WIRE GUARD.
- (WG) FIRE ALARM SYSTEM HORN/STROBE NOTIFICATION DEVICE, CEILING MOUNTED.
  - "WG" DENOTES WIRE GUARD.
- (WG) FIRE ALARM SYSTEM CEILING SMOKE DETECTOR.
  - "WG" DENOTES WIRE GUARD.
- (FT,WG) FIRE ALARM SYSTEM CEILING HEAT DETECTOR.
  - "FT" DENOTES FIXED TEMPERATURE.
  - "WG" DENOTES WIRE GUARD.
- FACP FIRE ALARM CONTROL PANEL.
- FAAP FIRE ALARM ANNUNCIATOR PANEL.
- NAC FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT PANEL.
- DSD FIRE ALARM SYSTEM DUCT SMOKE DETECTOR.
- DCD FIRE ALARM SYSTEM DUCT CARBON MONOXIDE DETECTOR.
- VSS FIRE ALARM VALVE SUPERVISORY SWITCH.
- FS WATER FLOW SWITCH.
- TS TAMPER SWITCH.
- MH MAGNETIC DOOR HOLDER.
- (TA,FA) ALARM BELL.
  - "TA" DENOTES TORNADO ALARM.
  - "FA" DENOTES FIRE ALARM.
- K FIRE ALARM SYSTEM DUCT SMOKE DETECTOR KEY OPERATED TEST SWITCH WITH INDICATING LIGHT, WALL OR CEILING MOUNTED.
- SECURITY CAMERA. (WALL MOUNT)
- SECURITY CAMERA. (MOUNTED IN THE ACOUSTIC CEILING TILE)
- SECURITY SENSOR/INITIATOR.
- MAGNETIC POSITION SWITCH, DOOR OR WINDOW.
- EDS ELECTRONIC DOOR (LOCK) STRIKE.
- PAD POWER ASSISTED DOOR ACTUATOR.
- DSA DOOR SECURITY ANNUNCIATOR PANEL.
- SEC SECURITY SYSTEM CONTROL PANEL.
- K SECURITY SYSTEM KEY PAD.
- R ACCESS CONTROL CREDENTIAL READER.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL SYMBOL LIST AND ABBREVIATIONS

SHEET NUMBER:
E5.00

10/16/2024 2:08:23 PM

GENERAL REMODELING NOTE: (APPLICABLE TO ALL SHEETS.)

1. WORK SHOWN ON DRAWINGS SHALL BE CONSIDERED NEW AND IN CONTRACT UNLESS SPECIFICALLY INDICATED OTHERWISE.

2. DRAWINGS ARE GENERALLY DIAGRAMMATIC. ROUTING OF CONDUITS, RACEWAYS, ETC., AS SHOWN ON DRAWINGS, DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. EACH CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS, SUCH AS OFFSETS, BENDS OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN COMPLETION DATE OF THE PROJECT.

3. IT IS INTENDED THAT EQUIPMENT SHALL BE LOCATED SYMMETRICALLY WITH THE ARCHITECTURAL ELEMENTS OF THE BUILDING, NOTWITHSTANDING THE FACT THAT LOCATIONS INDICATED BY THESE DRAWINGS MAY BE DISTORTED FOR CLEARNESS OF PRESENTATION.

4. CONTRACTOR SHALL CHECK DRAWINGS OF OTHER TRADES TO VERIFY THAT SPACES IN WHICH THEIR WORK WILL BE INSTALLED ARE CLEAR OF OBSTRUCTIONS. WORK SHALL BE INSTALLED TO MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS IN THE BUILDING. WHERE HEADROOM OR SPACE CONDITIONS APPEAR INADEQUATE, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE INSTALLATION OF THEIR WORK.

5. CONTRACTOR SHALL FURNISH OTHER TRADES ADVANCE INFORMATION AND/OR SHOP DRAWINGS ON LOCATIONS AND SIZES OF PIPING, DUCTWORK, CONDUIT, RACEWAYS, EQUIPMENT, FRAMES, BOXES, SLEEVES AND OPENINGS, ETC. NEEDED FOR THEIR WORK TO PERMIT OTHER TRADES AFFECTED TO INSTALL THEIR WORK PROPERLY AND WITHOUT DELAY.

6. WHERE THERE IS EVIDENCE THAT WORK OF ONE TRADE WILL INTERFERE WITH WORK OF OTHER TRADES, ALL TRADES SHALL MEET ON JOB SITE TO WORK OUT SPACE CONDITIONS AND MAKE SATISFACTORY ADJUSTMENTS TO INSTALLATION OF THE NEW WORK. CONTRACTORS SHALL VERIFY EXACT LOCATIONS OF ALL DEVICES AND EQUIPMENT WITH FIELD CONDITIONS, SHOP DRAWINGS, AND WORK OF OTHER TRADES PRIOR TO ROUGH-IN. EACH CONTRACTOR SHALL BE RESPONSIBLE, AT THEIR OWN EXPENSE, FOR THE REMOVAL AND REINSTALLATION OF ANY PART OF THEIR WORK IF SAME WAS INSTALLED WITHOUT CONSULTING WITH OTHER TRADES BEFORE INSTALLING THEIR WORK.

7. CONTRACTOR SHALL PROVIDE SLEEVES IN BEAMS, FLOORS, COLUMNS AND WALLS AS SHOWN ON THE DRAWINGS, AS REQUIRED BY JOB SITE CONDITIONS, AND/OR AS SPECIFIED, WHEN INSTALLING THEIR WORK. ALL BEAMS AND COLUMNS WHICH ARE REQUIRED TO BE SLEEVED SHALL BE CUT AND REINFORCED AS REQUIRED BY FIELD CONDITIONS AND LOCATIONS AND SIZES SHALL BE CHECKED AND APPROVED BY ARCHITECT BEFORE CONTRACTOR CUTS ANY STRUCTURAL BUILDING MEMBER.

8. THE SEQUENCE FOR THE INSTALLATION OF ALL WORK SHALL BE COORDINATED BETWEEN ALL CONTRACTORS ON THE PROJECT AND IN STRICT ACCORDANCE WITH ARCHITECT/ENGINEER AND OWNER'S STIPULATION AS DIRECTED.

9. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND STRUCTURAL CONTRACT DRAWINGS (BEFORE SUBMITTING THEIR BIDS) TO FAMILIARIZE THEMSELVES WITH THE EXTENT OF THE GENERAL CONTRACTOR'S WORK, CEILING HEIGHTS AND CLEARANCE FOR INSTALLING THEIR WORK.

10. CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL CORING, CUTTING, PATCHING, REPAIRING, REFINISHING AND REMOVAL/REPLACEMENT OF NEW BUILDING CONSTRUCTION REQUIRED TO ACCOMMODATE THE INSTALLATION OR REMOVAL OF THEIR WORK. REMOVE, STORE AND REINSTALL CEILING TILES AS REQUIRED TO INSTALL WORK ABOVE EXISTING CEILINGS WHICH REMAIN, REPLACE TILES BROKEN OR DAMAGED DURING CONSTRUCTION. ALL PATCHING, REPAIRING AND REFINISHING WORK SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE ADJACENT CONSTRUCTION AS CLOSELY AS POSSIBLE. CARE SHALL BE TAKEN SO AS NOT TO DAMAGE ANY EXISTING BUILDING CONSTRUCTION OR ITEMS THAT ARE TO REMAIN. ANY EXISTING FINISHES THAT ARE DAMAGED DURING THE INSTALLATION OF NEW WORK OR REMOVAL OF EXISTING WORK SHALL BE REPAIRED, REPLACED AND PAID FOR BY THE INSTALLING CONTRACTOR, TO THE SATISFACTION OF THE ARCHITECT AND OWNER. REFER TO ARCHITECTURAL DRAWINGS FOR EXISTING BUILDING CONSTRUCTION THAT IS TO REMAIN AND, THEREFORE, SUBJECT TO PATCHING, REPAIRING, REFINISHING, AND REMOVAL/REPLACEMENT.

11. CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR OWN CLEAN-UP DURING CONSTRUCTION. IF CONTRACTOR FAILS TO PROVIDE SUCH CLEAN-UP, THE ARCHITECT/ENGINEER WILL DIRECT ANOTHER CONTRACTOR TO PERFORM THE CLEAN-UP AND THE NEGLIGENT CONTRACTOR SHALL PAY THE ASSOCIATED BACK-CHARGES AS DEEMED APPROPRIATE BY THE ARCHITECT/ENGINEER.

12. CONTRACTOR SHALL INSTALL ALL AUXILIARY SUPPORTING STEEL AS REQUIRED FOR THE SUPPORTING OF THEIR CONDUIT, EQUIPMENT, ETC. ALL SUPPORTING STEEL FOR ITEMS ABOVE A SUSPENDED CEILING SHALL BE FROM BUILDING STRUCTURAL MEMBERS ONLY.

13. IT IS MANDATORY THAT THE COMPLETE EXISTING BUILDING REMAIN IN CONTINUOUS AND NON-INTERRUPTED OPERATION DURING REMODELING/ALTERING OF SAID EXISTING BUILDING. THE SPECIFIC AREA(S) BEING REMODELED/ALTERED AT ANY SCHEDULED TIME ARE OBVIOUSLY EXCLUSIVE OF THIS STATEMENT. SERVICES TO EXISTING BUILDING SHALL BE KEPT IN CONTINUOUS OPERATION INCLUDING POWER, SIGNAL SYSTEMS, LIGHTING, TELEPHONE, HEATING, COOLING, VENTILATING, TEMPERATURE CONTROL. ANY ABSOLUTELY NECESSARY INTERRUPTION OF THESE SERVICES TO ACCOMPLISH CONTRACT WORK SHALL BE ARRANGED WITH THE OWNER A MINIMUM OF TEN (10) WORKING DAYS IN ADVANCE. SUCH INTERRUPTIONS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AS FAR AS TIME INTERVAL IS INVOLVED AND TEMPORARY SERVICES SHALL BE FURNISHED AND INSTALLED UNDER THIS CONTRACT WHERE NECESSARY TO ACCOMPLISH THIS PURPOSE. TEMPORARIES SHALL BE REMOVED BY THE CONTRACTOR ONLY AFTER NEW PERMANENT SERVICES ARE INSTALLED AND FULLY OPERATIONAL.

14. UNLESS INDICATED OTHERWISE, THE ARCHITECT/ENGINEER MAKES NO REPRESENTATION AS TO WHETHER OR NOT ANY HAZARDOUS OR CONTAMINATED MATERIALS (INCLUDING BUT NOT LIMITED TO ASBESTOS, PCB'S, CONTAMINATED SOILS, ETC.) ARE PRESENT WITHIN THE EXISTING BUILDING OR ON THE SITE. WORK SHOWN ON THE DRAWINGS AND/OR INDICATED IN THE SPECIFICATIONS SHALL NOT BE CONSTRUED TO CALL FOR CONTACT WITH ANY OF THESE MATERIALS. IF THESE MATERIALS ARE ENCOUNTERED OR SUSPECTED, THE CONTRACTOR SHALL NOT DISTURB THEM AND SHALL CONTACT THE ARCHITECT/ENGINEER IMMEDIATELY.

15. CONTRACTOR SHALL STORE ALL MATERIALS AND EQUIPMENT SHIPPED TO THE SITE IN A PROTECTED AREA. IF MATERIAL IS STORED OUTSIDE OF THE BUILDING, IT MUST BE STORED OFF THE GROUND A MINIMUM OF SIX INCHES (6") SET ON 6 X 6 PLANKS AND/OR WOOD PALLETS. ALL MATERIAL AND EQUIPMENT MUST BE COMPLETELY COVERED WITH WATERPROOF TARPS OR VISQUIN. ALL CONDUIT WILL HAVE THE ENDS CLOSED TO KEEP OUT DIRT AND OTHER DEBRIS. NO EQUIPMENT WILL BE ALLOWED TO BE STORED ON THE SITE UNLESS IT IS SITTING ON WOOD PLANKS AND COMPLETELY PROTECTED WITH WEATHERPROOF COVERS.

16. THE DRAWINGS, SCHEDULES AND SPECIFICATIONS HAVE BEEN PREPARED USING ONE MANUFACTURER FOR EACH PIECE OF EQUIPMENT AS THE BASIS FOR DIMENSIONAL DESIGN. IF THE CONTRACTOR PURCHASES EQUIPMENT FROM A SPECIFIED ACCEPTABLE MANUFACTURER, BUT NOT THE SCHEDULED MANUFACTURER USED FOR THE BASE DESIGN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL THE DIMENSIONS OF THE EQUIPMENT TO VERIFY THAT IT WILL FIT IN THE SPACE SHOWN ON THE DRAWINGS. MINOR DEVIATIONS IN DIMENSIONS WILL BE PERMITTED, PROVIDED THE RATINGS MEET THOSE SHOWN ON THE DRAWINGS AND EQUIPMENT WILL PHYSICALLY FIT INTO THE SPACE ALLOCATED WITH SUITABLE ACCESS AROUND EQUIPMENT FOR OPERATION AND MAINTENANCE OF THE EQUIPMENT. WHEN EQUIPMENT SUBMITTED FOR REVIEW DOES NOT MEET THE PHYSICAL SIZE OR ARRANGEMENT OF THAT SCHEDULED AND SPECIFIED, CONTRACTOR SHALL PAY FOR ALL ALTERATIONS REQUIRED TO ACCOMMODATE SUCH EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR WILL ALSO PAY ALL COSTS FOR ADDITIONAL WORK REQUIRED BY OTHER CONTRACTORS, OWNER, ARCHITECT OR ENGINEER TO MAKE CHANGES WHICH WOULD ALLOW THE EQUIPMENT TO FIT IN THE SPACE AND FUNCTION AS INTENDED.

17. CONTRACTOR AND/OR MANUFACTURER SHALL VERIFY THAT THE CHARACTERISTICS OF THE EQUIPMENT HE SUBMITS FOR REVIEW MEET THE CAPACITY AND DUTY SPECIFIED.

18. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND THEIR ASSOCIATED FEES.

GENERAL ELECTRICAL NOTES: (APPLICABLE TO ALL SHEETS.)

1. THE MINIMUM WIRE SIZE SHALL BE #12 AWG. THE MINIMUM CONDUIT SIZE FOR HOMERUNS AND BRANCH FEEDS TO POWER OUTLETS SHALL BE 3/4". 1/2" CONDUIT IS ACCEPTABLE FOR BRANCH WIRING TO END OF THE LINE RECEPTACLES ONLY. ALL POWER BRANCH CIRCUITS SHALL TERMINATE AT 20A-1P CIRCUIT BREAKERS IN PANELBOARD INDICATED UNLESS NOTED OTHERWISE.

2. PROVIDE ALL PENETRATIONS, SLEEVES, AND SEALANT AS REQUIRED THROUGH PARTITIONS TO ACCOMMODATE THE FIRE ALARM, PAGING, CLOCK, VOICE, AND DATA CABLING. ANY PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROPERLY SEALED AND TREATED TO MAINTAIN THE FIRE STOPPING RATING OF THE WALLS, FLOORS, AND CEILINGS.

3. BACKBOXES ARE TO BE MOUNTED OFFSET, NOT BACK TO BACK.

4. CIRCUIT NUMBER(S), WHERE SHOWN, ARE TO INDICATE QUANTITY OF CIRCUITS REQUIRED. VERIFY EXACT CIRCUIT NUMBER TO BE UTILIZED IN FIELD. CONTRACTOR SHALL PROVIDE ACTUAL CIRCUITING AS PART OF "AS BUILT" DRAWINGS.

5. UNLESS INDICATED OTHERWISE, ALL MATERIALS REQUIRED TO PROVIDE BRANCH CIRCUITS AND FEEDERS ARE TO BE NEW.

6. DURING THE COURSE OF INVESTIGATION AND DEMOLITION, IF IT IS DETERMINED THAT IT MAY BE FEASIBLE TO UTILIZE EXISTING MATERIALS FOR BRANCH CIRCUITS AND FEEDERS, CONTRACTOR SHALL NOTIFY ENGINEER FOR APPROVAL PRIOR TO PERFORMING ANY WORK.

7. ANY ELECTRICAL DEVICES ON NEW WALLS SHALL BE FLUSH MOUNTED. NO WIREMOLDS ARE ACCEPTABLE ON NEW WALLS UNLESS NOTED OTHERWISE.

8. VERIFY RECEPTACLE LOCATIONS WITH ARCHITECTURAL FURNITURE LAYOUT TO ENSURE PROPER ACCESSIBILITY.

9. DRAWINGS DO NOT REPRESENT ALL EXISTING FIRE ALARM DEVICES. INITIATING AND NOTIFICATION DEVICES NOT SHOWN ON THE DRAWINGS ARE EXISTING TO REMAIN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN OPERATION OF THE EXISTING DEVICES NOT SHOWN.

10. EXISTING FIRE ALARM SYSTEM SHALL BE OPERATIONAL AT ALL TIMES. THE OCCUPIED AREA OF THE BUILDING SHALL NOT BE LEFT UNPROTECTED AT ANY TIME. IF AN INTERRUPTION OF FIRE ALARM SYSTEM IS REQUIRED TO FACILITATE DEVICE INSTALLATION, PROVIDE 48 HOURS OF ADVANCE NOTICE TO THE OWNER AND THE LOCAL FIRE DEPARTMENT. CONTRACTOR SHALL HIRE AN AUTHORIZED PERSONNEL TO WATCH/GUARD ANY UNPROTECTED AREAS OF THE BUILDING WHERE NECESSARY.

11. UNLESS INDICATED ON ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL CORING, CUTTING, PATCHING, REPAIRING, REFINISHING, AND REMOVAL/REPLACEMENT OF NEW OR EXISTING BUILDING CONSTRUCTION REQUIRED TO ACCOMMODATE THE INSTALLATION OR REMOVAL OF THEIR WORK. REMOVE, STORE, AND REINSTALL CEILING TILES AS REQUIRED TO INSTALL WORK ABOVE EXISTING REMOVABLE CEILINGS WHICH REMAIN; REPLACE TILES BROKEN OR DAMAGED DURING CONSTRUCTION. ALL PATCHING, REPAIRING, AND REFINISHING WORK TO OTHER FINISHES AND STRUCTURAL ELEMENTS SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE ADJACENT CONSTRUCTION AS CLOSELY AS POSSIBLE WHILE MAINTAINING EXISTING FIRE RATINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXISTING FIRE RATINGS OF CEILINGS AND PARTITIONS SYSTEMS. CARE SHALL BE TAKEN SO AS NOT TO DAMAGE ANY EXISTING BUILDING CONSTRUCTION OR ITEMS THAT ARE TO REMAIN. ANY EXISTING FINISHES THAT ARE DAMAGED DURING THE INSTALLATION OF NEW WORK OR REMOVAL OF EXISTING WORK SHALL BE REPAIRED, REPLACED, AND PAID FOR BY THE INSTALLING CONTRACTOR TO THE SATISFACTION OF THE ARCHITECT AND OWNER. REFER TO ARCHITECTURAL DRAWINGS FOR EXISTING BUILDING CONSTRUCTION THAT IS TO REMAIN AND, THEREFORE, SUBJECT TO PATCHING, REPAIRING, REFINISHING, AND REMOVAL/REPLACEMENT.

12. REMOVE AND REINSTALL CEILING MOUNTED DEVICES AS REQUIRED TO ALLOW INSTALLATION OF FEEDERS, BRANCH CIRCUITS, MECHANICAL PIPING, AND DUCT WORK. DEVICES INCLUDE BUT ARE NOT LIMITED TO: LUMINAIRES, SPEAKERS, FIRE ALARM, AND PAGING DEVICES.

13. PROVIDE PULL BOX(ES) BETWEEN PULL POINTS AS REQUIRED TO COMPLY WITH NEC 344.26 SUCH THAT THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREE TOTAL) BETWEEN PULL POINTS.

14. SPECIAL ATTENTION SHALL BE PAID TO ALL CONDUIT ROUTING IN OPEN CEILING SPACE FOR AESTHETIC PURPOSES. ALL EXPOSED CONDUITS SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES AND TIGHT TO CEILING/STRUCTURAL CORNERS. WHERE THIS IS NOT FEASIBLE, SUBMIT CONDUIT ROUTING PLAN TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

15. IN RENOVATIONS, IF AN EXISTING RECEPTACLE/JUNCTION BOX LOCATION WILL END UP HIDDEN BEHIND PERMANENTLY INSTALLED EQUIPMENT OR CASEWORK, PROCEED AS NOTED BELOW:
A. IF THE RECEPTACLE IS AN END OF LINE DEVICE (IT DOES NOT FEED OTHER DEVICES), IT SHALL BE REMOVED INCLUDING ASSOCIATED WIRING BACK TO LAST ACTIVE DEVICE OR JUNCTION BOX AND A BLANK COVER PLATE INSTALLED.
B. IF THE RECEPTACLE DOES SERVE DOWNSTREAM DEVICES, REMOVE RECEPTACLE AND REWORK WIRING TO A NEW OR EXISTING JUNCTION BOX ABOVE CEILING SUCH THAT NO WIRES ARE PRESENT IN THE JUNCTION BOX. A BLANK COVER PLATE SHALL BE INSTALLED.

16. CONTRACTOR SHALL PROVIDE DEDICATED NEUTRAL FOR EACH BRANCH CIRCUIT TO MEET THE REQUIREMENTS OF NEC ARTICLE 210.4(B).

17. LOW VOLTAGE CABLES INCLUDING, BUT NOT LIMITED TO, TELECOMMUNICATIONS, PAGING, TEMPERATURE CONTROL, FIRE ALARM, LIGHTING CONTROL, AND AUDIO/VIDEO SYSTEMS, ETC., SHALL BE INSTALLED IN A COMPLETE RACEWAY SYSTEM IN ALL INACCESSIBLE AREAS.

18. IN JUNCTION BOXES WHERE CURRENT CARRYING CONDUCTORS ARE SPLICED OR TERMINATED, PROVIDE BOND TO JUNCTION BOX FROM EQUIPMENT GROUNDING CONDUCTOR.

19. IN AREAS OF THE BUILDING WHERE NEW CEILING HEIGHT IS HIGHER THAN THE EXISTING CEILING HEIGHT, ANY EXISTING CONDUITS/CONDUCTORS AND JUNCTION BOXES SERVING EXISTING DEVICES/EQUIPEMNT TO REMAIN SHALL BE RE-ROUTED, RELOCATED, AND MODIFIED AS REQUIRED TO ACCOMMODATE NEW CEILING HEIGHT. FIELD VERIFY EXACT CONDITIONS.

20. IN AREAS OF THE BUILDING WHERE NEW DRYWALL OR PLASTER CEILING IS SCHEDULED TO BE INSTALLED, ANY EXISTING JUNCTION BOXES AND ASSOCIATED CONDUITS/CONDUCTORS SHALL BE MODIFIED AND RELOCATED AS REQUIRED TO AN ACCESSIBLE LOCATION UNLESS NEW ACCESS PANELS ARE PERMITTED TO BE INSTALLED IN NEW CEILING BY THE ARCHITECT.

21. COORDINATE POWER REQUIREMENTS FOR BUILDING AUTOMATION SYSTEM (BAS) CONTROLLERS WITH MECHANICAL/BAS CONTRACTORS. PROVIDE 2#12, 1#12G. IN 3/4"C. FROM EACH BAS CONTROLLER TO A NEW 20A-1P CIRCUIT BREAKER IN ELECTRICAL PANEL SERVING AREA WITH SPACE AND CAPACITY.

22. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS OF THERMOSTAT/CARBON DIOXIDE DETECTORS. PROVIDE SINGLE GANG BACKBOX AND EMPTY 3/4" CONDUIT WITH PULL STRING STUBBED INTO ACCESSIBLE CEILING SPACE FOR INSTALLATION OF THERMOSTAT/CARBON DIOXIDE DETECTORS. CABLING AND DEVICE SHALL BE BY OTHERS.

23. ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH SURROUNDING FINISHES.

24. CONDUITS AND RACEWAYS SHALL NOT BE ROUTED ACROSS FLOORS OR SLABS.

25. CONDUCTORS FOR EQUIPMENT RATED 100AMP. AND BELOW ARE SIZED PER ARTICLE 110.14(C)(1)(a)(2) WHICH INDICATES TO UTILIZE THE 60° TEMPERATURE RATING COLUMN OF TABLE 310.15(B)(16) REGARDLESS OF CONDUCTOR INSULATION RATING.

26. WHERE EXISTING RACEWAYS ARE REUSED, CONTRACTOR SHALL BE RESPONSIBLE FOR MECHANICAL INTEGRITY OF RACEWAY. CONTRACTOR SHALL PERFORM ALL REPAIRS TO ANY REUSED EXISTING RACEWAY SO THAT RACEWAY SYSTEM IS CONTINUOUS AND CODE COMPLIANT. CONTRACTOR SHALL ENSURE ANY EXISTING RACEWAY SYSTEM DOES NOT DAMAGE NEW CONDUCTORS/CABLES. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE REUSED RACEWAY AND WARRANTY THEM AS NEW.

27. LOCATE NOTIFICATION APPLIANCE CIRCUIT (NAC) PANELS, IN SERVICE SPACES SUCH AS JANITOR/STORAGE CLOSET OR MECHANICAL/ELECTRICAL ROOMS. PROVIDE A SMOKE DETECTOR ABOVE EACH NAC PANEL.

28. PROVIDE A DEDICATED 120VAC. 20AMP. BRANCH CIRCUIT TO EACH NAC PANEL FROM THE NEAREST ELECTRICAL PANEL WITH SPARE SPACE/CAPACITY. PROVIDE 20A-1P CIRCUIT BREAKER OF TYPE TO MATCH PANEL WITH ACCESSORY TO LOCK FIRE ALARM CIRCUIT BREAKER IN THE "ON" POSITION. PROVIDE UPDATED PANELBOARD DIRECTORY TO REFLECT ANY CHANGES.

29. ROOM NAMES AND NUMBERS ARE SHOWN ON THE DRAWINGS FOR REFERENCES ONLY. CONTRACTOR SHALL FIELD VERIFY AND OBTAIN EXACT ROOM NAMES AND NUMBERS TO BE UTILIZED FOR PROGRAMMING AND ALL CLOSEOUT DOCUMENTS.

30. EACH INITIATING DEVICE SHALL BE PROVIDED WITH A VISIBLE LABEL WITH BAR CODE TO INCLUDE THE DEVICE ADDRESS NUMBER.

31. ADJUST LOCATION OF SMOKE/HEAT DETECTORS A MINIMUM OF 3 FEET AWAY FROM HVAC DIFFUSERS.

32. PROVIDE ALL REQUIRED COMPONENT FOR AN OPERABLE FIRE ALARM SYSTEM, INCLUDING BUT NOT LIMITED TO NAC PANELS, AMPLIFIERS, BATTERY CABINETS, ETC.

GENERAL ELECTRICAL DEMOLITION NOTES: (APPLICABLE TO ALL SHEETS.)

1. ALL INDICATED ELECTRICAL EQUIPMENT, LUMINAIRES, DEVICES, AND RELATED CONDUIT AND WIRING TO BE REMOVED UNLESS NOTED OTHERWISE.

2. ALL DEMOLITION OF THE ELECTRICAL SYSTEM AS NOTED ON THE DEMOLITION DRAWINGS SHALL BE COORDINATED WITH THE RENOVATION REQUIREMENTS TO DETERMINE THIS CONTRACTOR'S WORK.

3. IT IS THE INTENT OF THE ELECTRICAL DEMOLITION DRAWING(S) TO INDICATE AREAS IN WHICH ELECTRICAL EQUIPMENT, CONDUIT, LUMINAIRES, DEVICES, ETC. NEED TO BE REMOVED, RELOCATED, OR MODIFIED BY THIS CONTRACTOR TO ALLOW FOR THE RENOVATION PHASE OF CONSTRUCTION. THE ELECTRICAL DEMOLITION PLAN IS FOR REFERENCE PURPOSES ONLY AND IT IS NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS.

4. CONTRACTOR SHALL VISIT THE BUILDING, BEFORE SUBMITTING THEIR BID, TO VERIFY THE EXISTING CONDITIONS WHICH WILL AFFECT THEIR WORK.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ELECTRICAL DEMOLITION REQUIRED TO ACCOMMODATE THE RENOVATION. REMOVE AS REQUIRED ALL LUMINAIRES, CONNECTIONS TO MECHANICAL EQUIPMENT, DEVICES, ETC.. PULL OUT ALL UNUSED CONDUCTORS AND CABLES, AND REMOVE ALL ABANDONED CONDUIT. ELECTRICALLY DISCONNECT AIR HANDLING UNITS, PUMPS, BOILERS, AND OTHER SUCH EQUIPMENT FOR REMOVAL BY OTHERS. BACKFEED AS REQUIRED ALL DOWNSTREAM DEVICES WHICH REMAIN. (THE CONTRACTOR SHALL COORDINATE WITH THE OWNER WHICH ITEMS INDICATED TO BE REMOVED & DISCONNECTED SHALL BE SALVAGED AND PRESENTED TO THE OWNER PRIOR TO ANY DISPOSAL OF THESE ITEMS.)

6. ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. WHERE WORK CALLED FOR ON THE DRAWINGS OR IN THE SPECIFICATIONS INVOLVES THE REMOVAL OF FLUORESCENT LAMPS CONTAINING MERCURY OR CLOTH INSULATED CONDUCTORS, THEY SHALL BE PROPERLY HANDLED AND REMOVED FROM SITE BY APPROVED METHODS PER EPA REGULATIONS.

7. ALL EXISTING RECEPTACLES/DATA OUTLETS/DEVICES/EQUIPMENT THAT ARE NOT PART OF DEMOLITION SHALL REMAIN AS IS UNLESS NOTED OTHERWISE. CONTRACTOR SHALL CHECK AND VERIFY FOR CONTINUING OPERATION OF THESE DEVICES PRIOR TO SUBSTANTIAL COMPLETION. IF ANY EXISTING CIRCUITS TO REMAIN ARE INTERRUPTED BY DEMOLITION OR NEW CONSTRUCTION, CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT/REMOVAL/REROUTING/MODIFICATION OF CONDUITS AND WIRES INCLUDING EXTENSION, AS REQUIRED TO MAINTAIN FUNCTIONALITY OF DOWNSTREAM RECEPTACLES/DATA OUTLETS/DEVICES/EQUIPMENT.

8. THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT PHASING AND MAINTAIN EXISTING SYSTEMS ACTIVE IN AREAS WHICH REMAIN OCCUPIED.

9. EXISTING CEILING MOUNTED SPEAKERS, PROGRAM BELLS, FIRE ALARM DEVICES, AND SIMILAR ELECTRICAL EQUIPMENT AND DEVICES TO REMAIN SHALL BE EXTENDED AND REINSTALLED AS REQUIRED IN NEW CEILINGS. FIELD VERIFY EXACT QUANTITIES AND REQUIREMENTS.

10. SUPPORT ALL CABLING DRAPED OR LYING LOOSE ABOVE EXISTING CEILINGS WHICH ARE SCHEDULED TO BE REMOVED. TIE WRAP CABLING TO JOISTS OR OTHER STRUCTURAL MEMBERS AS REQUIRED. UPON THE COMPLETION OF THE PROJECT, NO CABLING SHALL BE LYING ON ACCESSIBLE CEILINGS.

11. WHERE EXISTING DEVICE IS REMOVED FROM WALL WITH NO NEW DEVICE GOING BACK AT SAME LOCATION, PROVIDE BLANK BRUSHED STAINLESS STEEL COVER PLATES AS REQUIRED. COVER PLATES SHALL BE OF PROPER SIZE AND INSTALLED FLUSH WITH WALL.

GENERAL LIGHTING NOTES: (APPLICABLE TO ALL SHEETS.)

1. THE MINIMUM WIRE SIZE SHALL BE #12 AWG. THE MINIMUM CONDUIT SIZE FOR HOMERUNS SHALL BE 3/4". 1/2" CONDUIT IS ACCEPTABLE FOR BRANCH WIRING TO LUMINAIRES WHERE APPLICABLE. ALL LIGHTING BRANCH CIRCUITS SHALL TERMINATE AT 20A-1P CIRCUIT BREAKERS IN PANELBOARD INDICATED UNLESS NOTED OTHERWISE.

2. PROVIDE LOCK-ON CIRCUIT BREAKER DEVICES FOR ALL EMERGENCY LIGHTING & EXIT SIGN BRANCH CIRCUITS.

3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LUMINAIRE LOCATIONS.

4. CIRCUIT NUMBER(S), WHERE SHOWN, ARE TO INDICATE QUANTITY OF CIRCUITS REQUIRED. VERIFY EXACT CIRCUIT NUMBER TO BE UTILIZED IN FIELD. CONTRACTOR SHALL PROVIDE ACTUAL CIRCUITING AS PART OF "AS BUILT" DRAWINGS.

5. EMERGENCY BATTERY PACKS SHOWN ARE TO BE CONNECTED TO THE NEAREST LIGHTING BRANCH CIRCUIT AHEAD OF LOCAL SWITCH UNLESS NOTED OTHERWISE.

6. ALL LAY-IN LUMINAIRES SHALL BE INDEPENDENTLY SUPPORTED AT OPPOSITE CORNERS TO A STRUCTURAL MEMBER.

7. PROVIDE PULL BOX(ES) BETWEEN PULL POINTS AS REQUIRED TO COMPLY WITH NEC 344.26 SUCH THAT THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREE TOTAL) BETWEEN PULL POINTS.

8. PROVIDE DEDICATED NEUTRAL FOR EACH BRANCH CIRCUIT TO MEET THE REQUIREMENTS OF NEC ARTICLE 210.4(B).

9. IN JUNCTION BOXES WHERE CURRENT CARRYING CONDUCTORS ARE SPLICED OR TERMINATED, PROVIDE BOND TO JUNCTION BOX FROM EQUIPMENT GROUNDING CONDUCTOR.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

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NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL NOTES

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E5.10

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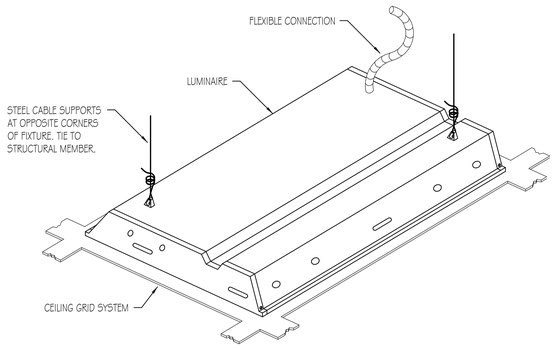
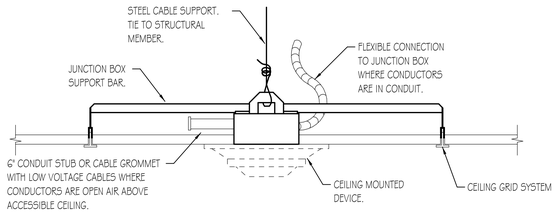


LUMINAIRE SUPPORT DETAIL
NO SCALE



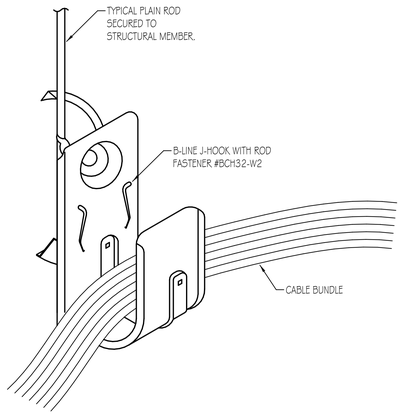
CEILING MOUNTED DEVICE SUPPORT DETAIL
NO SCALE

SUGGESTED MATRIX OF RESPONSIBILITY

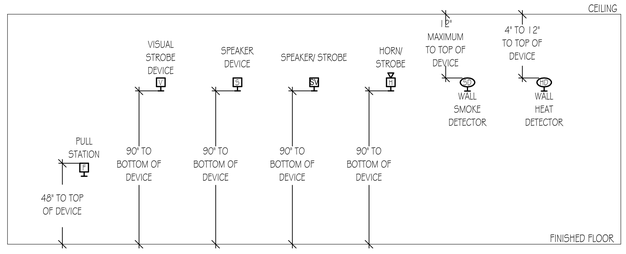
ITEM	BY ELECTRICAL CONTRACTOR	BY OWNER'S REPRESENTATIVE	NOTES
TELECOMMUNICATION - BACKBOX ROUGH-IN AND RACEWAYS	X	-	-
TELECOMMUNICATION - CABLING AND TERMINATIONS	X	-	-
TELECOMMUNICATION - CABLE TESTING AND CERTIFICATION	X	-	-
TELECOMMUNICATION - PATCH PANELS, CABLE MANAGEMENT	-	X	3
TELECOMMUNICATION - UPS, SWITCHES, SERVERS, WIRELESS ACCESS POINTS	-	X	6
TELECOMMUNICATION - 120VAC TO EQUIPMENT	X	-	2
ACCESS CONTROL - BACKBOX ROUGH-IN AND RACEWAYS	X	-	1
ACCESS CONTROL - CABLING AND TERMINATIONS	-	X	-
ACCESS CONTROL - CABLE TESTING AND CERTIFICATION	-	X	-
ACCESS CONTROL - EQUIPMENT, PROGRAMMING, TESTING	-	X	-
ACCESS CONTROL - 120VAC TO EQUIPMENT	X	-	2
SECURITY CAMERA - BACKBOX ROUGH-IN AND RACEWAYS	X	-	1
SECURITY CAMERA - CABLING AND TERMINATIONS	X	-	-
SECURITY CAMERA - CABLE TESTING AND CERTIFICATION	X	-	-
SECURITY CAMERA - EQUIPMENT, PROGRAMMING, TESTING	-	X	-
SECURITY CAMERA - 120VAC TO EQUIPMENT	X	-	2
FIRE ALARM SYSTEM - BACKBOX ROUGH-IN AND RACEWAYS	X	-	1
FIRE ALARM SYSTEM - CABLING AND TERMINATIONS	-	X	5
FIRE ALARM SYSTEM - EQUIPMENT, PROGRAMMING, TESTING	-	X	5
FIRE ALARM SYSTEM - 120VAC TO EQUIPMENT	X	-	-
PUBLIC ANNOUNCEMENT SPEAKER SYSTEM - BACKBOX ROUGH-IN AND RACEWAYS	X	-	1
PUBLIC ANNOUNCEMENT SPEAKER SYSTEM - CABLING AND TERMINATIONS	X	-	-
PUBLIC ANNOUNCEMENT SPEAKER SYSTEM - EQUIPMENT, PROGRAMMING, TESTING	X	-	4,6
PUBLIC ANNOUNCEMENT SPEAKER SYSTEM - 120VAC TO EQUIPMENT	X	-	-

GENERAL NOTES:
a. MATRIX IS SHOWN AS RECOMMENDATIONS ONLY AND PROVIDED AS A COURTESY TO CONTRACTOR. SOME COMPONENTS MAY NOT BE INCLUDED IN THIS MATRIX. CONFIRM WITH ARCHITECT, GENERAL CONTRACTOR OR CONSTRUCTION MANAGER PRIOR TO BIDDING TO CONFIRM SCOPE APPLICABLE TO THIS TRADES WORK.

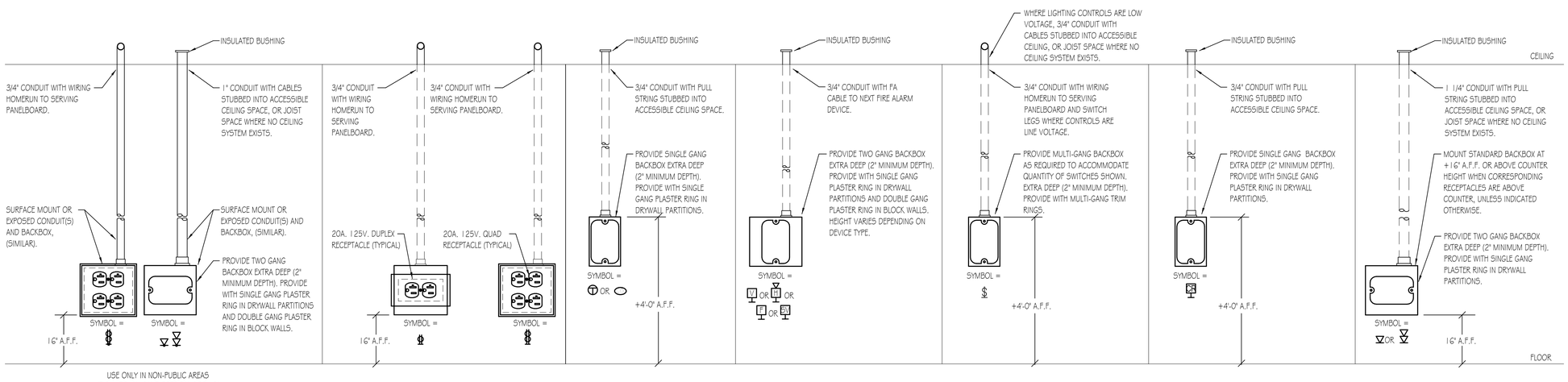
NOTES:
1. CONTRACTOR TO CONFIRM EXACT QUANTITY, HEIGHT, BACKBOX SIZE AND CONDUIT SIZE WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
2. CONTRACTOR TO CONFIRM EXACT LOCATION AND ELECTRICAL CHARACTERISTICS OF EQUIPMENT WITH OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.
3. NEW CABLES SHALL TERMINATE IN EXISTING PATCH PANELS. FIELD VERIFY EXACT REQUIREMENTS.
4. MODIFY/EXPAND EXISTING SYSTEM TO MEET PROJECT REQUIREMENTS.
5. FIRE ALARM WORK TO BE CARRIED OUT UNDER A SEPARATE CONTRACT.
6. EQUIPMENT TO BE FURNISHED BY OWNER; INSTALLED AND WIRED BY CONTRACTOR.



CABLE BUNDLE SUPPORT DETAIL
NO SCALE



FIRE ALARM DEVICE MOUNTING HEIGHT DETAIL
NO SCALE



JUNCTION BOX ROUGH-IN DETAIL
NO SCALE

NOTES :
1. DETAILS ARE FOR REFERENCE ONLY.
2. NOT ALL DEVICES ARE REQUIRED FOR THIS PROJECT.
3. PROVIDE TWO GANG BACKBOXES (2" MINIMUM DEPTH) WITH ALL RECEPTACLE OUTLETS.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

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E6.00

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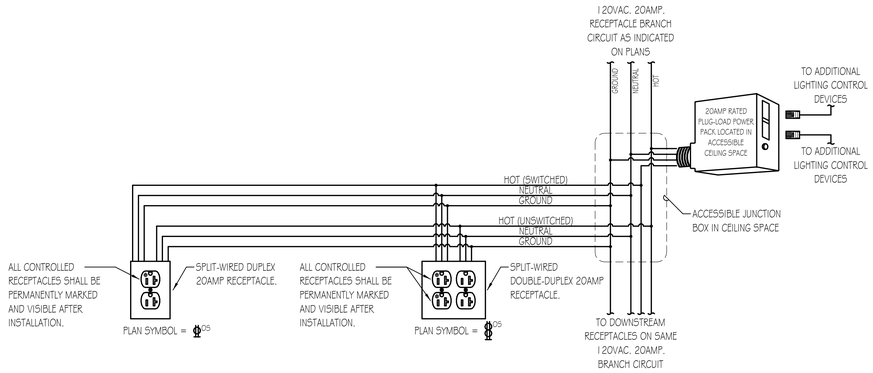
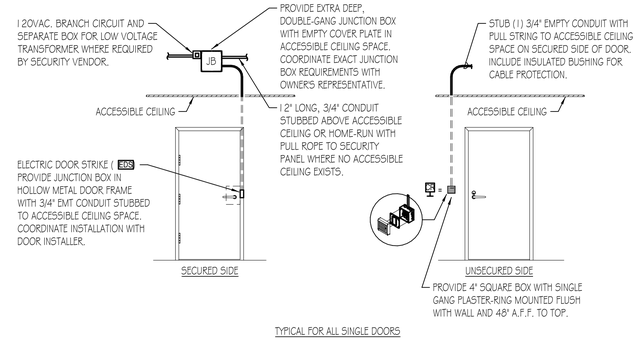


CONTROLLED RECEPTACLE DETAIL

NO SCALE

NOTES:

1. CONTROLLED RECEPTACLES SHALL BE PROGRAMMED TO SHUTOFF WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING A SPACE.



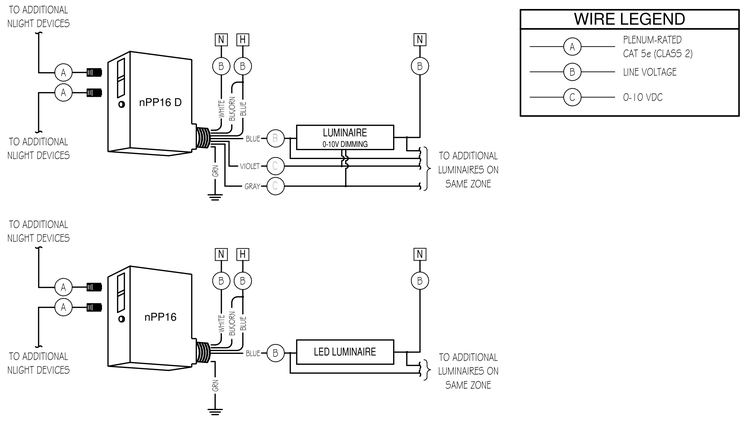
TYPICAL FOR ALL SINGLE DOORS

ACCESS CONTROL / SECURITY DEVICE DETAIL

NO SCALE

NOTES:

1. SECURITY DEVICES BY OTHERS. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH OWNER'S REPRESENTATIVE.
2. DETAILS ARE REPRESENTATIVE OF TYPICAL INSTALLATION. COORDINATE INSTALLATION WITH DOOR AND DOOR HARDWARE INSTALLER.



WIRE LEGEND

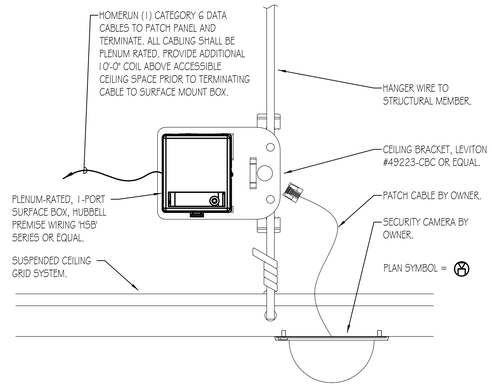
A	PLENUM-RATED CAT 5e (CLASS 2)
B	LINE VOLTAGE
C	0-10 VDC

TYPICAL POWER PACK WIRING DIAGRAM

NO SCALE

NOTES :

1. DETAIL FOR REFERENCE ONLY FOR BASIS OF DESIGN. REFER TO MANUFACTURER'S WIRING DIAGRAMS IF ALTERNATE MANUFACTURER IS USED.

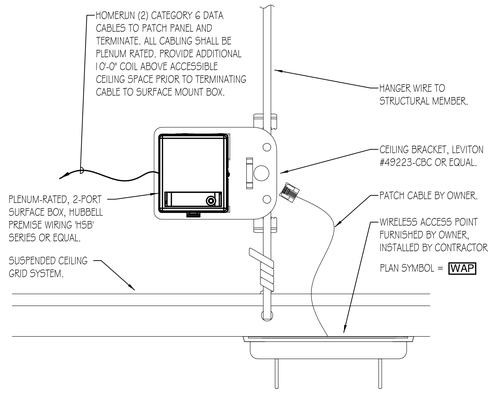


SECURITY CAMERA DETAIL

NO SCALE

NOTES:

1. SUPPORT SURFACE MOUNT BOX TO A STRUCTURAL MEMBER.
2. COORDINATE FINAL OUTLET AND CAMERA LOCATION WITH OWNER'S REPRESENTATIVE.

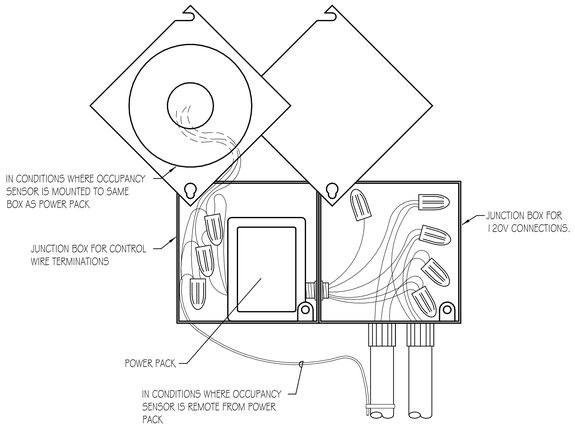


WIRELESS ACCESS POINT DETAIL

NO SCALE

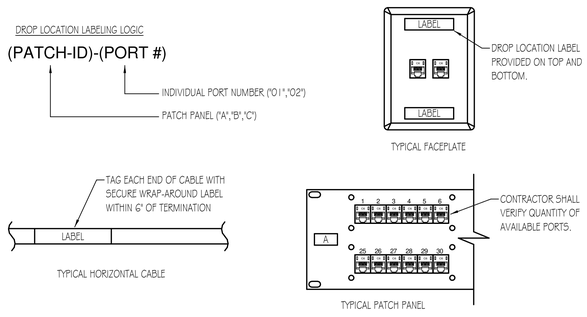
NOTES:

1. SUPPORT SURFACE MOUNT BOX TO A STRUCTURAL MEMBER.
2. COORDINATE FINAL OUTLET AND ACCESS POINT LOCATION WITH OWNER'S REPRESENTATIVE.



OCCUPANCY SENSOR POWER PACK DETAIL

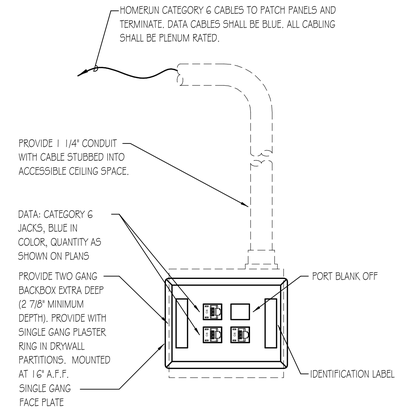
NO SCALE



NOTE:
EACH HORIZONTAL CABLE TERMINATION SHALL HAVE DEDICATED IDENTIFICATION. ALL LABELING MUST BE DONE WITH MECHANICAL LABEL MAKER, UTILIZING SCHEME AND METHODS ILLUSTRATED ABOVE, NO HAND-LETTERING PERMISSIBLE. ALL LABELS TO FEATURE BLACK TEXT ON WHITE BACKGROUND.

DATA CABLE LABELING DETAIL

NO SCALE



TYPICAL COMMUNICATION OUTLET DETAIL

NO SCALE

PLAN SYMBOL = ∇ (X)(X)(X)V

NOTES :

1. PROVIDE MACHINE MADE IDENTIFICATION LABELS FOR EACH LOW VOLTAGE OUTLET. VERIFY EXACT REQUIREMENTS WITH OWNERS REPRESENTATIVE.
2. ALL CABLE SHALL BE A MINIMUM OF CATEGORY 6 UNLESS INDICATED OTHERWISE.
3. LABEL EACH DATA JACK WITH THE IDF CLOSET AND PATCH PORT NUMBER.
4. PROVIDE QUANTITY OF CABLES AND JACKS AS INDICATED ON PLANS.
5. CABLE JACKET AND JACK COLORS SHALL MATCH EXISTING BUILDING STANDARDS.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

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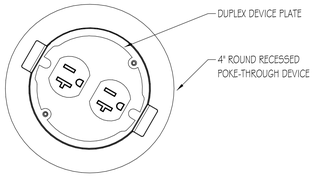
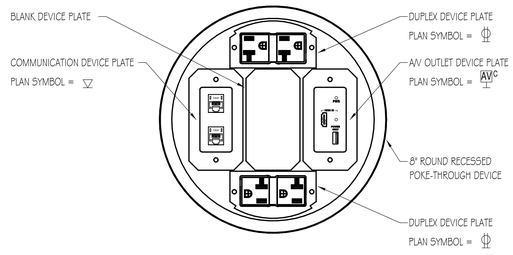


4" ROUND POKE-THROUGH FLOOR BOX DEVICE DETAIL

NO SCALE

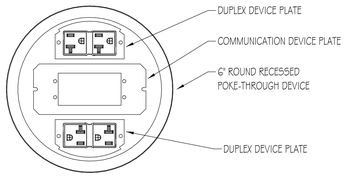
PLAN SYMBOL =



8" ROUND POKE-THROUGH FLOOR BOX DEVICE DETAIL

NO SCALE

PLAN SYMBOL = (X)(X)(X)V
AV



6" ROUND POKE-THROUGH FLOOR BOX DEVICE DETAIL

NO SCALE

PLAN SYMBOL = (X)(X)(X)V

STANDARD CLASSROOM A/V EQUIPMENT

ITEM	OWNER FURNISH, OWNER INSTALL	OWNER FURNISH, CONTRACTOR INSTALL	CONTRACTOR FURNISH, CONTRACTOR INSTALL	NOTES
DESKTOP AIO COMPUTER	X	-	-	-
DOCUMENT CAMERA	X	-	-	-
A/V SWITCHER (KRAMER 611DT)	X	-	-	-
CEILING SPEAKERS	-	X	-	-
PROJECTOR (EPSON 530)	-	X	-	-
PROJECTOR SCREEN (DALITE MODEL B)	-	X	-	-
A/V AMPLIFIER (CABLES2GO #40881)	X	-	-	-

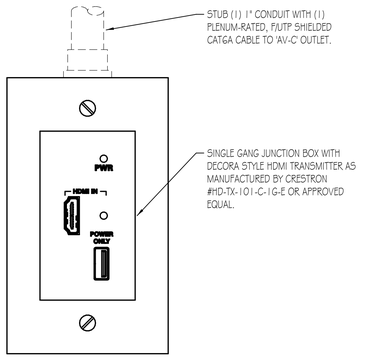
ACCESS CONTROL / SECURITY EQUIPMENT

ITEM	OWNER FURNISH, OWNER INSTALL	OWNER FURNISH, CONTRACTOR INSTALL	CONTRACTOR FURNISH, CONTRACTOR INSTALL	NOTES
CAMERAS	X	-	-	-
CARD READERS	X	-	-	-
HEAD-END EQUIPMENT	X	-	-	-

CLOCK / PUBLIC ANNOUNCEMENT SPEAKER EQUIPMENT

ITEM	OWNER FURNISH, OWNER INSTALL	OWNER FURNISH, CONTRACTOR INSTALL	CONTRACTOR FURNISH, CONTRACTOR INSTALL	NOTES
CLOCKS	X	-	-	-
CEILING PUBLIC ANNOUNCEMENT SPEAKERS	-	X	-	1

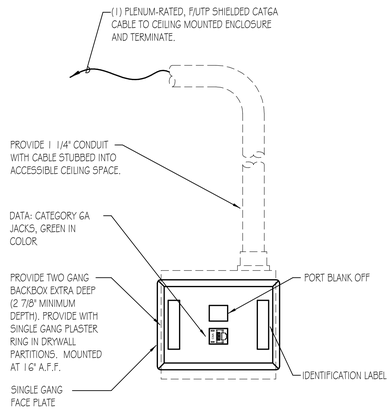
NOTES:
1. INCLUDE WIRING/CABLING AS REQUIRED TO MODIFY/EXPAND EXISTING SYSTEM TO MEET PROJECT REQUIREMENTS.



A/V TRANSMITTER OUTLET DETAIL

NO SCALE

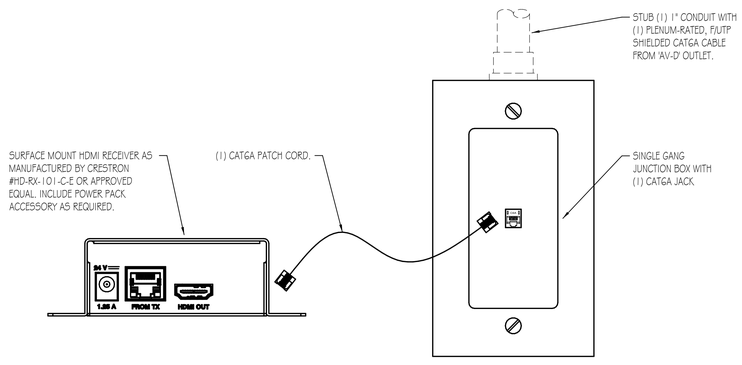
PLAN SYMBOL = AVD



A/V OUTLET DETAIL

NO SCALE

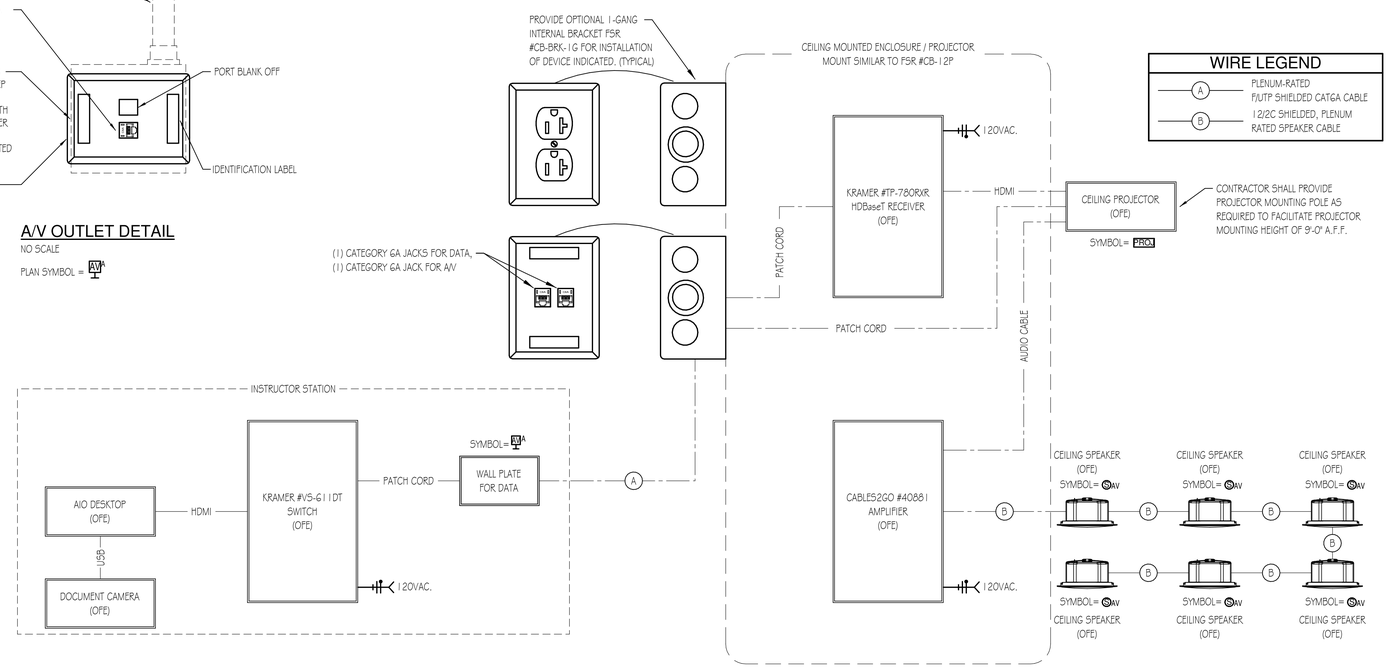
PLAN SYMBOL = AVA



A/V RECEIVER OUTLET DETAIL

NO SCALE

PLAN SYMBOL = AVC



CLASSROOMS A/V SCHEMATIC DIAGRAM

NO SCALE

NOTES :
1. ALL LOW VOLTAGE CABLES SHALL BE PLENUM-RATED.
2. 'OFE' DENOTES OWNER FURNISHED EQUIPMENT.

ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
125 N. HALSTED STREET, SUITE 301
CHICAGO, IL 60661
P: 312.496.0000

MEP-FP-T-ENGINEERS
20/10 ENGINEERING GROUP, LLC
1216 TOWER ROAD
SCHAUMBURG,IL 60173
P: 847.882.2010F: 847.882.2201

McHenry County College
2024 RENOVATIONS - BID PACKAGE 2

8900 NORTHWEST HWY #14
CRYSTAL LAKE, IL 60012
DKA PROJECT NO: 24-031

KEY PLAN:

SHEET STATUS: 10/17/2024
ISSUED FOR BID - NOT FOR CONSTRUCTION

NO:	DESCRIPTION:	DATE:

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER:
E6.20

10/16/2024 2:08:23 PM