ADDENDUM NO. 2

August 30, 2024

MSD of Washington Township Service Center Renovation
8401 Westfield Blvd.
Indianapolis, IN 46240

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications and the Drawings dated July 31, 2024, by Schmidt Associates. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 2-1, attached Schmidt Associates Addendum No. 2 dated August 29, 2024, consisting of 3 Addendum pages and 87 attachment pages totaling 90 pages.

ADDENDUM NO. 2
AUGUST 29, 2024

PREPARED BY SCHMIDT ASSOCIATES FOR:

M.S.D. OF WASHINGTON TOWNSHIP –
CENTRALIZED SERCIES CENTER AND
WAREHOUSE RENOVATION – PHASE 6B
WASHINGTON TOWNSHIP, M.S.D. OF

This Addendum consists of 3 Addendum pages and 87 attachment pages totaling 90 pages.

Acknowledge receipt of this Addendum by inserting its number on the Bid Form. Failure to do so may subject the Bid to disqualification. This Addendum is part of the Contract Documents.

Bidder is encouraged to verify with reprographer of record all Addenda issued (do not rely exclusively on third party plan room services).

PART 1 - CHANGES TO PRIOR ADDENDA (NOT APPLICABLE)

PART 2 - CHANGES TO THE PROJECT MANUAL

Modifications described herein shall be incorporated in the Project Manual. All other Work shall remain unchanged.

2.1 DIVISION 23 - HEATING, VENTILATING, AND AIR-CONDITIONING(HVAC)

A. **Section 230900.99 "DIRECT DIGITAL CONTROL SYSTEMS"**

1. DELETE AND REPLACE Article 4.1 per the attached.

"Article 4.1 includes 33 pages of 11x17 Temperature Control Services (TCS) drawings dated 08/29/2024 under TCS job number J-2408004 that includes installation standards, riser diagrams, and temperature control schematics including points and wiring diagram details that shall be installed by the controls installation contractor (CIC) as performed by the mechanical, technology, and electrical contractors and indicated on the M-701 drawing."

PART 3 - CHANGES TO THE DRAWINGS

Modifications described herein shall be incorporated in the Drawings. All other Work shall remain unchanged.

3.1 DRAWING SHEETS: ADDITIONS, DELETIONS AND REPLACEMENTS

DRAWING NO.	INDICATE ACTION: ADD (A), DELETE (D), DELETE & REPLACE (R),
S-SERIES DRAWINGS	
SF1E1	DELETE AND REPLACE
SF100	DELETE AND REPLACE
A-SERIES DRAWINGS	
A-600	DELETE AND REPLACE
M-SERIES DRAWINGS	

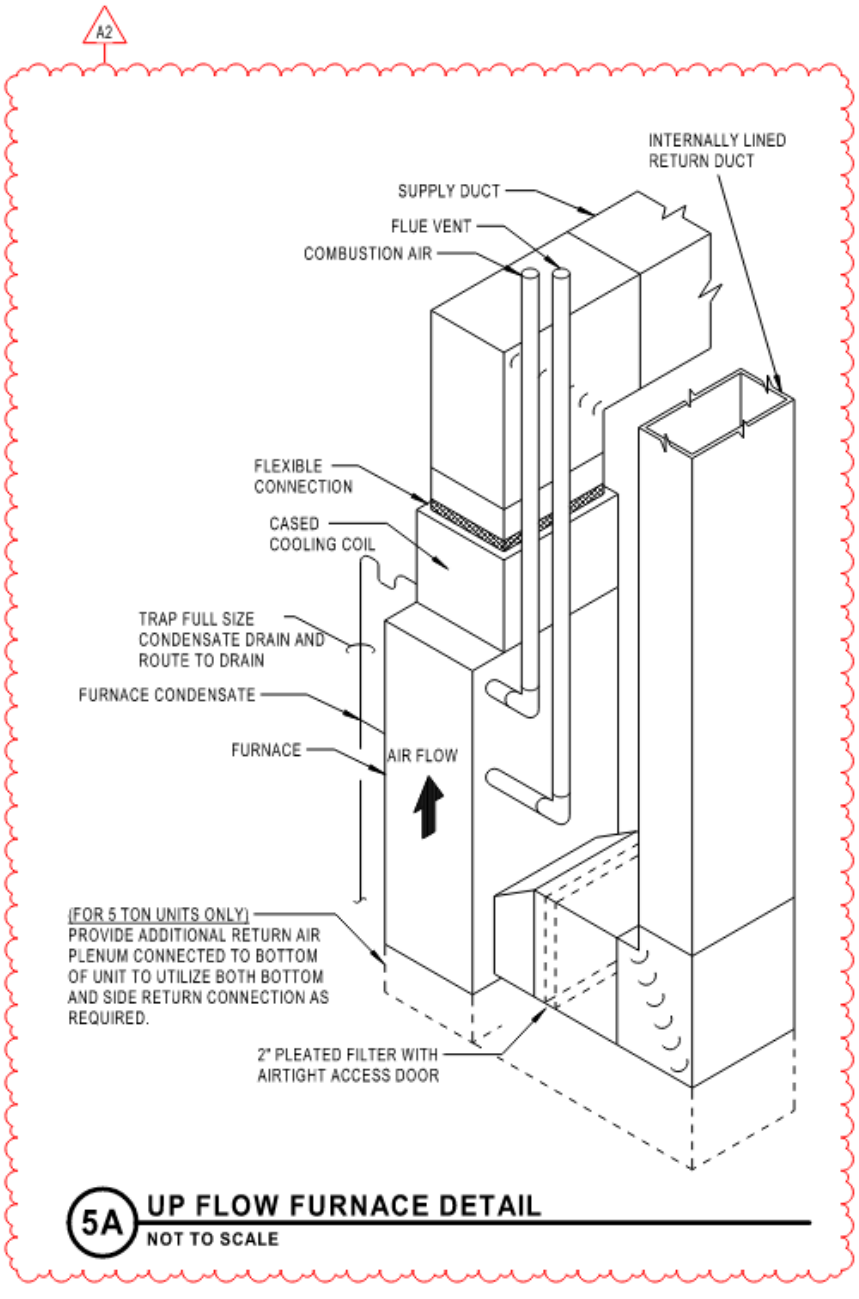
MH1C0	ADD
MH1C1	DELETE AND REPLACE
MH1C2	DELETE AND REPLACE
MH1D1	DELETE AND REPLACE
M-401	DELETE AND REPLACE
M-402	DELETE AND REPLACE
M-403	DELETE AND REPLACE
M-404	DELETE AND REPLACE
M-405	DELETE AND REPLACE
P-SERIES DRAWINGS	
PDFC1	ADD
PD1B1	DELETE AND REPLACE
PD1C1	DELETE AND REPLACE
PD1C2	DELETE AND REPLACE
PF1C1	DELETE AND REPLACE
PP1C1	DELETE AND REPLACE
PP1C2	DELETE AND REPLACE
PP1G1	DELETE AND REPLACE
P-401	DELETE AND REPLACE
P-501	DELETE AND REPLACE
P-912	DELETE AND REPLACE
P-913	DELETE AND REPLACE
WPD101	DELETE AND REPLACE
WPP101	DELETE AND REPLACE
WP-901	ADD
E-SERIES DRAWINGS	
E601	DELETE AND REPLACE
E605	DELETE AND REPLACE
ED1E1	DELETE AND REPLACE
ED1F1	DELETE AND REPLACE
EDL1E1	DELETE AND REPLACE
EDL1F1	DELETE AND REPLACE
EL1E1	DELETE AND REPLACE
EL1F1	DELETE AND REPLACE
EP1A2	DELETE AND REPLACE
EP1D1	DELETE AND REPLACE
EP1E1	DELETE AND REPLACE
EP1F1	DELETE AND REPLACE
WE601	DELETE AND REPLACE
WEP100	DELETE AND REPLACE
T-SERIES DRAWINGS	
T201A1	DELETE AND REPLACE
T201B1	DELETE AND REPLACE
T201B2	DELETE AND REPLACE
T201C	DELETE AND REPLACE
T201D	DELETE AND REPLACE
T201F	DELETE AND REPLACE
T201G	DELETE AND REPLACE
T202A1	DELETE AND REPLACE
T202B1	DELETE AND REPLACE

T202B2	DELETE AND REPLACE
T202C	DELETE AND REPLACE
T202D	DELETE AND REPLACE
T500	DELETE AND REPLACE

3.2 M-SERIES DRAWINGS

A. Drawing Number WM-501

1. ADD Detail 5A as follows:



END OF ADDENDUM 2

MSD Washington Township
Operation Service Center

Drawing Number:	Title:	Current Revision:
TITLE-01	Title Page	Design Review DR.0
GEN-01	Installation Standards - Legend	Design Review DR.0
GEN-02	Installation Standards - Electrical	Design Review DR.0
GEN-03	Installation Standards - Network	Design Review DR.0
GEN-04	Installation Standards - Mechanical	Design Review DR.0
GEN-05	Installation Standards - Wire & Cable Requirements	Design Review DR.0
RISER-01	Ethernet Network Drops	Design Review DR.0
OSC-01	Fan Coil Unit FCU-D1 Field Devices	Design Review DR.0
OSC-02	Fan Coil Unit FCU-D1 Point Tables & Sequence of Operation	Design Review DR.0
OSC-03	Fan Coil Unit FCU-D1 Panel - I/O Wiring	Design Review DR.0
OSC-04	Fan Coil Unit FCU-D1 Panel - Power & Network Wiring	Design Review DR.0
OSC-05	Fan Coil Unit FCU-D1 Panel - Dimensions & BOM	Design Review DR.0
OSC-06	Exhaust Fans EF-G2 & G3 Field Devices, Point Tables, & Sequence	Design Review DR.0
OSC-07	Exhaust Fans EF-G2 & G3 Panel - I/O Wiring	Design Review DR.0
OSC-08	Exhaust Fans EF-G2 & G3 Panel - Power & Network Wiring	Design Review DR.0
OSC-09	Exhaust Fans EF-G2 & G3 Panel - Dimensions & BOM	Design Review DR.0
OSC-10	Exhaust Fan EF-B1 Field Devices & Sequence of Operation	Design Review DR.0
OSC-11	BAS Alarm Annunciator Panel Layout	Design Review DR.0
OSC-12	Annunciator Panel Sequence of Operation	Design Review DR.0
OSC-13	Annunciator Panel System 01 Panel - I/O Wiring (1 of 3)	Design Review DR.0
OSC-14	Annunciator Panel System 01 Panel - I/O Wiring (2 of 3)	Design Review DR.0
OSC-15	Annunciator Panel System 01 Panel - I/O Wiring (3 of 3)	Design Review DR.0
OSC-16	Annunciator Panel System 01 Panel - Power & Network Wiring	Design Review DR.0
OSC-17	Annunciator Panel System 01 Panel - Dimensions & BOM	Design Review DR.0
SCH-01	Consolidated BOM	Design Review DR.0
SCH-02	Label List & Valve Schedule	Design Review DR.0
INST-01	Installation Standards - Inputs (1 of 3)	Design Review DR.0
INST-02	Installation Standards - Inputs (2 of 3)	Design Review DR.0
INST-03	Installation Standards - Inputs (3 of 3)	Design Review DR.0
INST-04	Installation Standards - Outputs (1 of 3)	Design Review DR.0
INST-05	Installation Standards - Outputs (2 of 3)	Design Review DR.0
INST-06	Installation Standards - Outputs (3 of 3)	Design Review DR.0
INST-07	Installation Standards - Typical Third-Party Connections	Design Review DR.0

Delta Controls
Temperature Control Services
108 N MAIN
ADVANCE, INDIANA 46102
PHONE: 765.481.8510
E-MAIL: NATHAN@TCSBAS.COM

UPDATES	
DATE	REMARKS
8/22/2024	ADDENDUM #1
8/29/2024	ADDENDUM #2
	ISSUED FOR CONST
	AS-BUILT

REVISIONS	
DATE	REMARKS

JOB TITLE: Operation Service Center (OSC)
LOCATION: MSD Washington Township, Indianapolis, IN
ENGINEER: Temperature Control Services, LLC
CONTRACT WITH: MSD Washington Township
DATE: 8/16/2024 CHK. BY: ____ DRAWN BY: BSS

CONTRACT NO:

SHEET
TITLE-01
JOB NUMBER:
J-2408004

TAG	TAG DESCRIPTION
AC	DX COOLING-ONLY UNIT
ACF	ACTIVATED CARBON FILTER SYSTEM
ACK	ACKNOWLEDGE
ACP	AIR COMPRESSOR
ACU	AIR COOLED CONDENSING UNIT
ACU	AIR CONDITIONING SYSTEM
AF	AIR FILTER
AFS	AIR FLOW MEASURING STATION
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
ALM	ALARM
AO	ANALOG OUTPUT
AVG	AVERAGE(ING)
BAS	BUILDING AUTOMATION SYSTEM
BC	BOILER CONTROLLER
BI	BINARY (DIGITAL) INPUT
BLR	BOILER
BO	BINARY (DIGITAL) OUTPUT
BYP	BYPASS
BZR	BUZZER
CBL	CABLE
CB	CIRCUIT BREAKER
CC	COOLING COIL
CCDAT	COOLING COIL DISCHARGE AIR TEMPERATURE
CF	CARTRIDGE FILTER SYSTEM
CH	CHILLER
CHW	CHILL WATER
CHWR	CHILL WATER RETURN TEMPERATURE
CHWS	CHILL WATER SUPPLY TEMPERATURE
Cl	CHLORINE
CND	CONDENSING UNIT
CO	CARBON MONOXIDE SENSOR
CO2	CARBON DIOXIDE SENSOR
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT
C1A	CONTROLLER - DAC-1600 APPLICATION
C2E	CONTROLLER - DSC-1212E SYSTEM
C3A	CONTROLLER - DAC-633 APPLICATION
C3S	CONTROLLER - DSC-633 SYSTEM
C4A	CONTROLLER - DAC-1146 APPLICATION
C4F	CONTROLLER - DFM-440 FIELD MODULE
C4S	CONTROLLER - DSC-1146 SYSTEM
C4X	CONTROLLER - eBX-04 EXPANDER BACKPLANE
C6A	CONTROLLER - DAC-606 APPLICATION
C6E	CONTROLLER - DSC-1616E SYSTEM
C7E	CONTROLLER - eTCH-7E TOUCH SCREEN
C8U	CONTROLLER - eBM-800 UI MODULE
C8X	CONTROLLER - eBX-08 EXPANDER BACKPLANE
CCU	CONTROLLER - COPPERCUBE ARCHIVER
CDF	CONTROLLER - DFC-304R3-240 FCU
CDV	CONTROLLER - DVC-V322A-B VAV
CDX	CONTROLLER - DMUX-8-J MULTIPLEXER
CDZ	CONTROLLER - DZNR-768 REPEATER
CEB	CONTROLLER - eBMGR-2
CEC	CONTROLLER - EBCON-2 SYSTEM
CET	CONTROLLER - eBMGR-TCH-2
CFP	CONTROLLER - DMF-400P PWM FIELD MODULE
CFU	CONTROLLER - DFM-400 FIELD MODULE
CJA	CONTROLLER - JACE 8000 NETWORK ENGINE
CMA	CONTROLLER - eBM-440-M AO MODULE
CMD	CONTROLLER - eBM-D400R4 DO MODULE
CMH	CONTROLLER - eBM-D400R4-H DO MODULE

TAG	TAG DESCRIPTION
CMI	CONTROLLER - eBM-440-I MODULE
CZF	CONTROLLER - eZFCP-424r4-24 FCU
CZV	CONTROLLER - enteliZONE VAV
CN8	CONTROLLER - NIAGARA JACE 8000
C6R	CONTROLLER - NIAGARA IO-R-16 MODULE
C4R	CONTROLLER - NIAGARA IO-R-34 MODULE
CS	CURRENT SENSOR
CT	CURRENT TRANSDUCER
CTR	COOLING TOWER
CTS	CHEMICAL TREATMENT SYSTEM
CTW	CITY WATER (RAW)
CW	CONDENSER WATER
CWF	CONDENSER WATER FILTER
CWR	CONDENSER WATER RETURN TEMPERATURE
CWS	CONDENSER WATER SUPPLY TEMPERATURE
CWV	CHILL WATER VALVE
DAH	DISCHARGE AIR HUMIDITY
DAT	DISCHARGE AIR TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DEM	DEMAND
DET	DETECTION
DI	DIGITAL (BINARY) INPUT
DO	DIGITAL (BINARY) OUTPUT
DP	DEW POINT TRANSMITTER
DPA	DIFFERENTIAL PRESSURE TRANSDUCER - AIRFLOW
DPB	DIFFERENTIAL PRESSRUE BLDG TRANSDUCER
DPD	DIFFERENTIAL PRESSURE DUCT TRANSDUCER
DPF	DIFFERENTIAL PRESSURE FILTER
DPR	DAMPER
DPS	DIFFERENTIAL PRESSURE SWITCH
DPT	DIFFERENTIAL PRESSURE TRANSDUCER
DPW	DIFFERENTIAL PRESSURE WATER TRANSDUCER
DR	DIN RAIL
DRA	DIN RAIL ADAPTER
DWH	DOMESTIC WATER HEATER
DWM	DOMESTIC WATER METER
DWP	DOMESTIC WATER PRESSURE
DWR	DISHWASHER
EAD	EXHAUST AIR DAMPER
EBO	EQUIPMENT BY OTHERS
ELE	ELEVATOR
ENA	ENABLE
ENC	ENCLOSURE
EOA	EMERGENCY OUTSIDE AIR
EOL	END OF LINE RESISTOR
EPM	ELECTRICAL POWER MONITORING
ES	END SWITCH
ESC	ELECTRONIC SPEED CONTROL
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
ETS	ETHERNET SWITCH
EWH	ELECTRIC WATER HEATER
FA	FIRE ALARM SYSTEM POINT
FAA	FIRE ALARM ANNUNCIATION
FACP	FIRE ALARM CONTROL PANEL
FAS	FIRE ALARM SYSTEM
FB	FUSE BLOCK
FBK	FEEDBACK
FBD	FACE AND BYPASS DAMPER
FBP	FACE AND BYPASS
FC	FIBER CONVERTER, (TO ETHERNET)

TAG	TAG DESCRIPTION
FCU	FAN COIL UNIT
FDT	FUEL DAY TANK
FE	FRONT END
FLP	FLOATING POINT (TRI-STATE) OUTPUT
FLT	FILTER DIFFERENTIAL PRESSURE
FM	FLOW METER
FP	FIRE PUMP
FR	FIELD RELAY
FS	FLOW SWITCH
FSC	FCU FAN SPEED CONTROL SWITCH
FT	FAULT
FWC	FIRE WATER CHEMICAL TREATMENT SYSTEM
FWC	FIRE WTR CORR CHEM TREAT INJECT SYSTEM
G	GAUGE
GD	GAS DETECTOR
GEN	GENERATOR
GFS	GAS FLOW SWITCH
GM	GAS METER
H2S	HYDROGEN SENSOR
HC	HEATING COIL
HL	HIGH LIMIT, DUCT PRESSURE
HR	HEAT RECOVERY
HRC	HEAT RECOVERY COIL
HRU	HEAT RECOVERY UNIT
HS	HUMIDISTAT
HTD	HUMIDITY / TEMPERATURE SENSOR - DUCT
HTR	HUMIDITY / TEMPERATURE SENSOR - ROOM
HTS	HEAT SENSOR
HU	HUMIDIFIER
HUM	HUMIDITY SENSOR
HW	HOT WATER
HWR	HOT WATER RETURN TEMPERATURE
HWS	HOT WATER SUPPLY TEMPERATURE
HWV	HOT WATER VALVE
IL	INTERLOCK
ION	IONIZATION UNIT
ISO	ISOLATION
JA	JACE (CONTROLLER, ACCESSORIES, EXP. PACKS)
KWM	KILOWATT METER
LAN	LOCAL ACCESS NETWORK
LBL	LABEL
LC	LIGHTING CONTACTOR
LD	LEAK DETECTOR
LFH	LAB FUME HOOD
LL	LOW LIMIT TEMPERATURE SWITCH
LLS	LIQUID LEVEL SWITCH
LLT	LIQUID LEVEL TRANSMITTER
LN*	LINKNET NETWORK POINT
LRB	LIGHTING RELAY BRACKET
LS(S)	LOAD SHEDDING (SIGNAL)
LT	LIGHT
LVL	LEVEL
LWA	LOW WATER ALARM
LWC	LOW WATER CUT-OFF
LWL	LOW WATER LEVEL
M	ACTUATOR
MAD	MIXED AIR DAMPER
MAG	MAGNEHELIC PRESSURE GAUGE
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MB	MOUNTING BRACKET

TAG	TAG DESCRIPTION
MF	MULTIMEDIA FILTER SYSTEM
MIN	MINIMUM
MS	MOTOR STARTER
MTR	METER
N*	NETWORK (SOFTWARE) POINT NUMBER
OA	OUTSIDE AIR
OAD	OUTSIDE AIR DAMPER
OAH	OUTSIDE AIR HUMIDITY
OAT	OUTSIDE AIR TEMPERATURE
OATH	OUTSIDE AIR TEMPERATURE / HUMIDITY
OBS	OBSOLETE
OCC	OCCUPANCY
OS	OCCUPANCY SENSOR
PAN	PANDUIT / WIRE MOLD
PB(C)	PANEL BUILD (COMPONENT)
PF	PANEL FUSE
Ph	POTENTIAL HYDROGEN
PHV	PRE-HEAT VALVE
PLG	PANEL LIGHT - GREEN
PLR	PANEL LIGHT - RED
PLY	PANEL LIGHT - YELLOW
PM	POWER MONITOR
PMP	PUMP
PNL	PANEL
PLM	PHASE LOSS MONITOR
PP	PRESSURE PICKUP, SPACE - LOW PROFILE
PpH	POTABLE WATER POTENTIAL HYDROGEN (Ph) LEVEL
PR	RELAY, PANEL, TRACK MOUNT
PS	POWER SUPPLY
PRES	PRESSURE
PRN	PRINTER
PSR	PHOTOCELL RELAY
PT	PNEUMATIC TUBING - POLY
PTS	PNEUMATIC PRESSURE PICKUP - STATIC PRESSURE
PTT	PNEUMATIC PRESSURE PICKUP - TOTAL PRESSURE
PTV	PNEUMATIC PRESSURE PICKUPS - STATIC & TOTAL
PWC	POTABLE WATER CHLORINATION SYSTEM
PWM	PULSE WIDTH MODULATION
PWT	POTABLE WATER TANK
R	PANEL RELAY
RA	RETURN AIR
RAD	RETURN AIR DAMPER
RAH	RETURN AIR HUMIDITY
RAT	RETURN AIR TEMPERATURE
RB	RELAY, PANEL, ICE CUBE, SOCKET BASE
RBP	CITY RAW WATER BOOSTER PUMP
RD	RADON DETECTOR
REL(D)	RELIEF (DAMPER)
RM	REFRIGERANT MONITOR
RPC	RAW WATER BOOSTER PUMP CONTROLLER
RTS	ROTARY TIMER SWITCH
RTU	ROOFTOP UNIT
RWB	RAW WATER BAG FILTER SYSTEM
RWP	RAW WATER TREATMENT SYSTEM PUMP PKG
RWPC	RAW WATER PUMP CONTROL SYSTEM
RWR	RAW WATER RECIRCULATION & CHLORINATION SYS
RWT	RAW WATER TANK
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SCR	SILICONE-CONTROLLED RECTIFIER (REHEAT TYP.)
SD	SMOKE DETECTOR

TAG	TAG DESCRIPTION
SDF	SOFTWARE / DRIVERS / FIRMWARE
SEF	SMOKE EXHAUST FAN
SEP	SEWAGE EJECTION PUMP
SF	SUPPLY FAN
SGD	SURGE DAMPER - AIR
SI + []	SAFETY INTERLOCK + Source (i.e. Term L6 & L7)
SMP	SUMP PUMP
SP	SWITCH PLATE
SPD	SPEED SIGNAL (VFD INPUT SPEED FROM BAS)
SPS	SPRAY WATER SYSTEM
SR	SAFETY RELAY
SS	START / STOP
SSG	SPACE SENSOR GUARD
SSP	SECURITY SYSTEM PANEL
ST	SPACE TEMPERATURE
STAT	STATUS
STPT	SETPOINT
SW	SWITCH - ELECTRIC
TB	TERMINAL BLOCK
TBP	TRIPLEX DOMESTIC WATER BOOSTER PUMP PKG
TH	THERMOSTAT, ROOM TEMPERATURE
TL	TOWER LIGHT (ALARM INDICATION)
TS	TEMPERATURE SENSOR
TW	THERMOWELL, TEMPERATURE
TX	TRANSFORMER
V	VALVE / ACTUATOR COMBINATION
VAV	VARIABLE AIR VOLUME BOX
VFD	VARIABLE FREQUENCY DRIVE
VFDR	VARIABLE FREQUENCY DRIVE, RETURN FAN
VFDS	VARIABLE FREQUENCY DRIVE, SUPPLY FAN
WA	WATER ALARM
WD	WATER DETECTOR
WLP	WATER LEVEL TRANSDUCER, PRESSURE TYPE
WLU	WATER LEVEL TRANSDUCER, ULTRASONIC
WM	WATER METER
WP	WATER PRESSURE
WSHP	WATER SOURCE HEAT PUMP
WTR	WATER
WWT	WASTE WATER TREATMENT
XFMR	TRANSFORMER

INSTALLATION STANDARDS – LEGEND

Delta Controls

Temperature Control Services
108 N MAIN
ADVANCE, INDIANA 46102
PHONE: 765.481.8510
E-MAIL: NATHAN@TCSBAS.COM

UPDATES	
DATE	REMARKS
8/22/2024	ADDENDUM #1
	ISSUED FOR CONST
	AS–BUILT

REVISIONS	
DATE	REMARKS

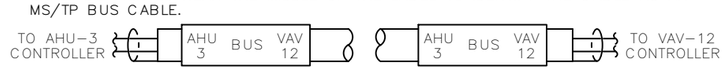
JOB TITLE: Operation Service Center (OSC)
LOCATION: MSD Washington Township, Indianapolis, IN
ENGINEER: Temperature Control Services, LLC
CONTRACT WITH: MSD Washington Township
DATE: 8/16/2024 CHK. BY: ____ DRAWN BY: BSS

CONTRACT NO:

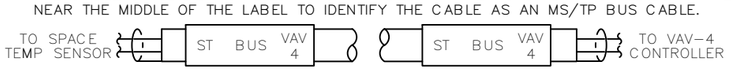
SHEET
GEN–01
JOB NUMBER:
J–2408004

MS/TP BUS CABLE LABELING

1. THE LABELING SHOWN BELOW SHALL BE PROVIDED ON ALL MS/TP BUS CABLES RUNNING FROM ONE CONTROL PANEL TO ANOTHER, OR FROM A CONTROLLER TO A SPACE TEMPERATURE SENSOR. MS/TP BUS CABLES CONNECTING CONTROLLERS WITHIN A SINGLE CONTROL PANEL SHALL NOT BE LABELED.
   - ON CABLES RUNNING BETWEEN CONTROL PANELS: EACH LABEL SHALL INDICATE THE NAMES OF THE CONTROLLERS CONNECTED AT EACH END OF THE CABLE. THE NAME PRINTED ON THE LEFT SIDE OF THE LABEL SHALL BE THE NAME OF THE CONTROLLER CONNECTED TO THE LEFT END OF THE CABLE & VICE-VERSA (SEE EXAMPLE BELOW). THE WORD "BUS" SHALL BE PRINTED NEAR THE MIDDLE OF THE LABEL TO IDENTIFY THE CABLE AS AN MS/TP BUS CABLE.



   - ON CABLES RUNNING TO SPACE TEMPERATURE SENSORS: EACH LABEL SHALL INDICATE THE NAME OF THE CONTROLLER ON THE RIGHT SIDE AND THE LETTERS "ST" ON THE LEFT SIDE. THE CABLE SHALL BE INSTALLED AS SHOWN BELOW. THE WORD "BUS" SHALL BE PRINTED NEAR THE MIDDLE OF THE LABEL TO IDENTIFY THE CABLE AS AN MS/TP BUS CABLE.



2. EACH LABEL SHALL BE MADE OF TRANSPARENT VINYL FILM BACKED WITH AN ACRYLIC, PRESSURE-SENSITIVE ADHESIVE. THE LABEL MATERIAL SHALL BE OIL & SOLVENT RESISTANT WITH GOOD CONFORMABILITY & FLEXIBILITY. THE MEANS OF PRINTING ON THE LABEL SHALL RESULT IN A CLEARLY LEGIBLE, PERMANENT MARKING. LABELS SHALL REMAIN INTACT & CLEARLY LEGIBLE WHEN SUBJECTED TO ULTRAVIOLET LIGHT, EXTREME HUMIDITY & SURFACE TEMPERATURES FROM -40° F TO 150° F (-40° C TO 66° C).
3. EACH CABLE SHALL BE IDENTIFIED WITH (2) LABELS. A LABEL SHALL BE LOCATED WITHIN 18" OF EACH END OF THE CABLE & SHALL BE VISIBLE WITHIN THE CONTROL ENCLOSURE. THE SAME NOTATION THAT APPEARS ON THE LABEL SHALL BE MARKED ON THE COVER OF EACH JUNCTION BOX THAT THE CABLE PASSES THROUGH.

WIRING TERMINATION LEGEND - PANEL

[#]	= VDC TERMINATION AT CONTROL PANEL
[L##]	= VAC TERMINATION AT CONTROL PANEL
1##	= 120-460VAC INTRA-PANEL TERMINATION
2##, 4##	= 24VAC INTRA-PANEL TERMINATION
3##, 5##	= 24VDC INTRA-PANEL TERMINATION

WIRING TERMINATION LEGEND - BACNet ID

XX ## (NOTE: LEADING ZEROS NOT USED)

INSTANCE NUMBER: FROM PANEL I/O = PHYSICAL CONNECTION NUMBER
N* INSTANCE NUMBER INDICATES A NETWORK (SOFTWARE) POINT

I/O TYPE: AI=ANALOG INPUT, BI=BINARY INPUT, MI=MULTISTATE INPUT
AO=ANALOG OUTPUT, BO=BINARY OUTPUT

DEVICE BASIC ADDRESS FROM SWITCH
DEVICE BACNET ADDRESS = DEVICE SWITCH ADDRESS * DEVICE TYPE FACTOR

DEVICE TYPE: = AREA (FACTOR = 10000)
= SYSTEM (FACTOR = 100)
= SUBLAN (FACTOR = 1)
= LINKNET DEVICE (BACNET ADDRESS USES HOSTPANEL_ID)

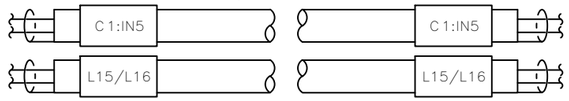
EXAMPLES:
AREA DEVICE # 3, BINARY INPUT NUMBER 4: [BACNET ADDRESS = 30000.BI4]
LINKNET DEVICE # 2, BINARY INPUT NUMBER 3: [BACNET ADDRESS = HOSTPANEL_ID.BI203]

INPUT / OUTPUT WIRING STANDARDS

1. ALL I/O CABLE SHALL MEET THE FOLLOWING SPECIFICATIONS:
   - STRANDED 18 GAUGE, TWISTED/SHIELDED-PAIR COPPER WIRE WITH 300 VOLT INSULATION
2. PLENUM-RATED CABLE SHALL BE USED WHERE REQUIRED BY LOCAL OR NATIONAL CODES.
3. I/O WIRING SHALL NOT BE RUN IN THE SAME CONDUIT AS A.C. POWER WIRING THAT CARRIES MORE THAN 24 VOLTS.
4. WITHIN ANY CONTROL PANEL:
   - I/O WIRING SHALL NOT CROSS OVER A.C. POWER WIRING THAT CARRIES MORE THAN 24 VOLTS.
   - I/O WIRING SHALL NOT BE RUN IN THE SAME CABLE GROUP AS A.C. POWER WIRING THAT CARRIES MORE THAN 24 VOLTS.
5. ONLY SHIELDED 24 VAC POWER WIRING SHALL BE ALLOWED TO CROSS OVER, RUN IN THE SAME CONDUIT, OR RUN IN THE SAME CABLE GROUP AS I/O WIRING.
6. WHERE UNAVOIDABLE, I/O WIRING MAY BE LOCATED NO CLOSER THAN 6" AND SHOULD BE LOCATED AS FAR APART AS POSSIBLE FROM POWER WIRING CARRYING MORE THAN 24 VOLTS. AVOID RUNNING PARALLEL TO POWER WIRING ANY FURTHER THAN NECESSARY, CROSS POWER WIRING AT 90 DEGREE ANGLES ONLY IF REQUIRED.
7. SHIELDS ON INPUT AND OUTPUT WIRING TO BE GROUNDED AT PANEL (OR CONTROLLER) LOCATION ONLY. THEY SHOULD BE TIED TO A TRUE EARTH GROUND.
8. STRIP ONLY ENOUGH CABLE BACK TO ALLOW TERMINATION OF SHIELD AND WIRE.

INPUT / OUTPUT CABLE LABELING

1. THE LABELING SHOWN BELOW SHALL BE PROVIDED ON ALL I/O WIRING TO & FROM CONTROLLERS AND FIELD DEVICES. I/O WIRING CONTAINED WITHIN A CONTROL PANEL SHALL NOT BE LABELED. EACH LABEL SHALL INDICATE THE I/O WIRING TERMINATION AS SHOWN ON THE TEMPERATURE CONTROL DRAWINGS (SEE EXAMPLES BELOW).



2. EACH LABEL SHALL BE MADE OF TRANSPARENT VINYL FILM BACKED WITH AN ACRYLIC, PRESSURE-SENSITIVE ADHESIVE. THE LABEL MATERIAL SHALL BE OIL & SOLVENT RESISTANT WITH GOOD CONFORMABILITY & FLEXIBILITY. THE MEANS OF PRINTING ON THE LABEL SHALL RESULT IN A CLEARLY LEGIBLE, PERMANENT MARKING. LABELS SHALL REMAIN INTACT & CLEARLY LEGIBLE WHEN SUBJECTED TO ULTRAVIOLET LIGHT, EXTREME HUMIDITY & SURFACE TEMPERATURES FROM -40° F TO 150° F (-40° C TO 66° C).
3. EACH CABLE SHALL BE IDENTIFIED WITH (2) LABELS. A LABEL SHALL BE LOCATED WITHIN 18" OF EACH END OF THE CABLE & SHALL BE VISIBLE AT THE CONTROL PANEL OR FIELD DEVICE. THE SAME NOTATION THAT APPEARS ON THE LABEL SHALL BE MARKED ON THE COVER OF EACH JUNCTION BOX THAT THE CABLE PASSES THROUGH.

GENERAL ELECTRICAL STANDARDS

1. ALL CURRENT SENSING DEVICES SHALL HAVE THE POWER WIRE LOOPED THROUGH THE SENSOR MULTIPLE TIMES, IF NECESSARY, TO PROVIDE AN AMPERAGE THAT IS WELL WITHIN THE RANGE OF THE SENSOR (REFER TO MANUFACTURER'S LITERATURE FOR AMPERAGE RANGE).
2. ALL FIELD WIRING TO TERMINAL STRIPS IN CONTROL PANELS SHALL BE TERMINATED AT THE OUTERMOST TERMINALS. INNER TERMINALS OF TERMINAL STRIPS ARE RESERVED FOR INTERNAL WIRING TERMINATIONS.
3. 120 VAC POWER WIRING SHALL ENTER ANY CONTROL PANEL AT THE UPPER RIGHT CORNER UNLESS OTHERWISE INDICATED.
4. 240 VAC POWER WIRING SHALL ENTER ANY CONTROL PANEL AT THE LOWER LEFT CORNER UNLESS OTHERWISE INDICATED.
5. THE GROUND WIRE CONNECTED TO ANY CONTROL PANEL MUST BE A CONTINUOUS CONDUCTOR BACK TO THE GROUND CONNECTION AT THE BREAKER PANEL. GROUNDING TO BUILDING STEEL IS NOT ACCEPTABLE.
6. ALL JUMPER & DIP SWITCH CONFIGURATIONS SHOWN ON THE TEMPERATURE CONTROL DRAWINGS SHALL BE SET BY THE INSTALLER. IF NO SPECIFIC CONFIGURATION IS SHOWN FOR A DEVICE, NO CHANGE SHALL BE MADE TO THE DEFAULT SETTINGS.
7. ALL FIELD WIRING THAT DIFFERS FROM THE WIRING SHOWN ON THE TEMPERATURE CONTROL DRAWINGS SHALL BE NOTED ON THE DRAWINGS (BY THE INSTALLER) WITH RED INK OR PENCIL. THE COMPLETE SET OF NOTED DRAWINGS SHALL BE PROVIDED TO THE PROJECT MANAGER UPON COMPLETION OF THE PROJECT OR SOONER UPON REQUEST.

ELECTRICAL NOTES

- ALL CONTROL DEVICES & WIRING SHALL BE INSTALLED IN ACCORDANCE WITH: MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND INSTALLATION STANDARDS PROVIDED ON THE "INSTALLATION STANDARDS" SHEET.
- THESE DRAWINGS PROVIDE SCHEMATIC REPRESENTATIONS OF EQUIPMENT & FIELD DEVICES BASED ON THE BID PROPOSAL. ACTUAL INSTALLATION OF ALL CONTROL DEVICES IS SUBJECT TO FIELD VERIFICATION. ANY CHANGES THAT MAY RESULT IN A DEVIATION FROM THE GENERAL INTENT OF THE CONTROL SYSTEM DESIGN SHALL BE APPROVED BY THE DESIGNER PRIOR TO INSTALLATION.
- FIELD VERIFICATION OF WIRING TERMINATIONS REQUIRED.

- GROUND CIRCUIT MUST BE A CONTINUOUS PATH BACK TO THE BREAKER PANEL.
- ELECTRICAL NOTE: CONTROLLER GROUND CONNECTION MUST BE A COMPLETE PATH BACK TO BREAKER PANEL.

- REMOVE SHUNT JUMPER IF SHIELD IS GROUNDED DIRECTLY AT ANY OTHER POINT OR SHUNT IS INSTALLED AT OTHER END OF NETWORK.
- ADP-45-MSTP-TB-Y AND ADP-45-MSTP-Y BOARDS MAY BE FLUSH MOUNTED ONTO METAL PANELBOARDS WITHOUT AN INSULATOR BETWEEN THE TWO.
- FIELD DEVICES SHOULD ONLY BE GROUNDED IN THE CONTROL PANEL. DO NOT GROUND I/O WIRING IN BOTH THE FIELD AND THE PANEL.
- THESE DRAWINGS PROVIDE SCHEMATIC REPRESENTATIONS OF EQUIPMENT & FIELD DEVICES BASED ON THE CHILDREN'S EDUCATION ADDITION PROPOSAL. ACTUAL INSTALLATION OF ALL CONTROL DEVICES IS SUBJECT TO FIELD VERIFICATION. ANY CHANGES THAT MAY RESULT IN A DEVIATION FROM THE GENERAL INTENT OF THE CONTROL SYSTEM DESIGN SHALL BE APPROVED BY THE DESIGNER PRIOR TO INSTALLATION.
- SEE FIELD DEVICE TERMINATION DETAIL SHEET(S) FOR POINT WIRING REQUIREMENTS.

FROM BAPI:

- BAPI recommends using twisted pair of at least 22AWG and sealant filled connectors for all wire connections. Larger gauge wire may be required for long runs. All wiring must comply with the National Electric Code (NEC) and local codes.
Do NOT run this device's wiring in the same conduit as AC power wiring of NEC class 1, NEC class 2, NEC class 3 or with wiring used to supply highly inductive loads such as motors, contactors and relays. BAPI's tests show that fluctuating and inaccurate signal levels are possible when AC power wiring is present in the same conduit as the signal lines. If you are experiencing any of these difficulties, please contact your BAPI representative.

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SHEET
GEN-02
JOB NUMBER:
J-2408004

BACNET MS/TP, DELTA LINKNET & MODBUS-RTU (RS-485) BUS STANDARDS

1. THE RS–485 BUS SHIELD MUST BE KEPT SEPARATE FROM OTHER SHIELDS & MUST NOT BE GROUNDED. THE RS–485 BUS SHIELD SHALL BE PROTECTED FROM CONTACTING ANY SURFACE OTHER THAN THE TERMINATION BLOCK.
2. SPLICES IN RS–485 BUS WIRING ARE NOT ACCEPTABLE. RS–485 BUS WIRING SHALL BE TERMINATED ONLY AT A CONTROLLER, REPEATER, OR TRM–768: RS–485 LAN TERMINATOR.
3. THE BLACK WIRE IN AN RS–485 BUS CABLE SHALL ALWAYS BE CONNECTED TO THE (–) BUS TERMINAL ON THE DEVICE AT EACH END OF THE CABLE.
4. ALL 2–CONDUCTOR RS–485 BUS CABLE SHALL MEET THE FOLLOWING SPECIFICATIONS:
   – 22–24 GAUGE, SINGLE TWISTED–PAIR, TINNED, SHIELDED COPPER WIRE WITH GREEN JACKET
   – NOMINAL IMPEDANCE = 100–120 OHMS BETWEEN CONDUCTORS
   – CAPACITANCE < OR = TO 17 pF/FT BETWEEN GROUNDED CONDUCTOR & NEXT CONDUCTOR
   – ACCEPTABLE CABLE = BELDEN 9841, 82841 OR WINDY CITY WIRE 42002–S. (PLENUM–RATED)
   APPROVAL OF EQUIVALENT CABLE IS REQUIRED PRIOR TO INSTALLATION
5. PLENUM–RATED CABLE SHALL BE USED WHERE REQUIRED BY LOCAL OR NATIONAL CODES.
6. RS–485 BUS WIRING SHALL NOT BE RUN IN THE SAME CONDUIT AS A.C. POWER WIRING THAT CARRIES MORE THAN 24 VOLTS.
7. WITHIN ANY CONTROL PANEL:
   – RS–485 BUS WIRING SHALL NOT CROSS OVER A.C. POWER WIRING THAT CARRIES MORE THAN 24 VOLTS.
   – RS–485 BUS WIRING SHALL NOT BE RUN IN THE SAME CABLE GROUP AS A.C. POWER WIRING THAT CARRIES MORE THAN 24 VOLTS.
8. ONLY SHIELDED 24 VAC POWER WIRING SHALL BE ALLOWED TO CROSS OVER, RUN IN THE SAME CONDUIT, OR RUN IN THE SAME CABLE GROUP AS RS–485 BUS WIRING.

BACNET MS/TP, DELTA LINKNET & MODBUS-RTU (RS-485) BUS NOTES

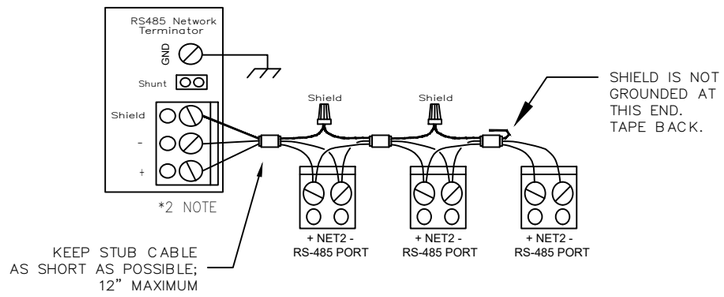
– EACH SEGMENT OF THE DZNT COMMUNICATION BUS CAN HAVE UP TO 50 DEVICES AND 2,000' TOTAL CAT5 CABLE LENGTH (COMBINED DISTANCE BETWEEN TERMINATION BOARDS AND FROM TERMINATION BOARD TO DZNT–TO–VAV (THE WALL MOUNTED DEVICE)) TO A MAXIMUM OF 99 DEVICES TOTAL.
– TOTAL NETWORK LENGTH IS DETERMINED BY SUM OF CABLE LENGTHS BETWEEN TERMINATION BOARDS, PLUS THE SUM OF THE DROP CABLES BETWEEN TERMINATION BOARD AND THERMOSTAT.
– IF ONLY 1 SEGMENT IS REQUIRED, AN ADP45–MSTP–TB–Y MAY BE USED INSTEAD OF AN ADP45–MSTP–Y.
– THERE IS NO HARD LIMIT TO THE NUMBER OF BRANCHES CREATED BY ADP45–MSTP–Y CONNECTORS, PROVIDED TOTAL OF ALL BRANCHES IS WITHIN THE LENGTH AND DEVICE LIMIT FOR THE SEGMENT. DAISY CHAIN STRUCTURE IS MAINTAINED DUE TO THE DESIGN OF THE CABLING SYSTEM.
– AFTER SPLITTING A NETWORK INTO TWO (2) BRANCHES, DO NOT RECOMBINE TO A SINGLE BRANCH AT THE OPPOSITE END OR NETWORK PROBLEMS WILL OCCUR.
– LOOPBACK TERMINATION, ADP45–MSTP–ENDLOOP, MUST BE USED AT THE END OF EACH NETWORK BRANCH OR SEGMENT. NETWORK WILL CONTINUE TO FUNCTION IF ON LOOPBACK OR DEVICE IS REMOVED FROM THE NETWORK BUT DEVICES WILL DROP OFF THE NETWORK BETWEEN ANY TWO (2) REMOVED DZNT–TO–VAV OR ADP45–MSTP–LOOP.
– 12" LENGTH OF NETWORK CABLE ATTACHED TO THE ADP45–MSTP–TB–Y IS MAXIMUM ALLOWED. TERMINATE GROUND LEAD TO GND ON THE CONTROLLER TO MAINTAIN NETWORK INTEGRITY.
– CABLING IS DESIGNED TO USE STANDARD STRAIGHT–THROUGH UNSHIELDED TWISTED PAIR (UTP) CAT3 OR HIGHER CABLES (CAT5, CAT5e, CAT6) TO CONNECT BOXES TO BOXES, AND INDIVIDUAL BOXES TO THEIR THERMOSTATS.
– CABLING IS DESIGNED TO MAINTAIN THE REQUIRED DAISY–CHAIN CONFIGURATION EVEN WITH THE USE OF NETWORK Y's.

– DO NOT EXCEED (64) NODES ON A NETWORK SEGMENT. THERE IS A MAXIMUM OF 99 NOTES ALLOWED ON A SINGLE RS–485 NETWORK. ANY MORE THAN (64) NODES ON A NETWORK REQUIRES THE USE OF A REPEATER!
– DO NOT EXCEED 4,000 FEET (1,220 m) TOTAL LENGTH ON ANY SINGLE TWISTED PAIR RS–485 NETWORK SEGMENT.
– DO NOT EXCEED 2,000 FEET (610 m) TOTAL LENGTH ON ANY SINGLE CAT5 RS–485 NETWORK SEGMENT.
– DO NOT EXCEED (3) NODES ON A SINGLE LINKNET SEGMENT.
– DO NOT EXCEED 100 FEET (30 m) TOTAL LENGTH ON ANY SINGLE LINKNET NETWORK.
– SHIELD FOR RS–485 BUS MUST BE KEPT SEPARATE FROM OTHER SHIELDS AND FROM GROUND TERMINATIONS.
– RS–485 BUS SHIELD MUST BE TIED THROUGH EACH NODE TO MAKE A CONTINUOUS SHIELD THAT RUNS THE ENTIRE LENGTH OF THE RS–485 SEGMENT. DO NOT CONNECT THE SHIELD TO GROUND AT THE NODE.
– PROTECT FROM CONTACT WITH ANY SURFACE OTHER THAN THE TRM–768 TERMINAL BOARD OR DNZR–768 REPEATER.
– COMMUNICATION WIRING MUST NOT BE SPLICED. ALL TERMINATIONS MUST OCCUR AT CONTROLLERS UNLESS SPECIFICALLY NOTED OTHERWISE.
– BLACK COMMUNICATION WIRE SHALL ALWAYS BE CONNECTED TO (–) TERMINAL AT ALL CONTROLLERS.
– REFER TO "INSTALLATION STANDARDS" SHEET FOR ACCEPTABLE CABLE SPECIFICATIONS AND WIRING PRACTICES.
– ALL DEVICES CONNECTED TO THE RS–485 NETWORK MUST BE PROPERLY GROUNDED.
– ALL DEVICES ON THE NETWORK MUST RUN AT THE SAME BAUD RATE.

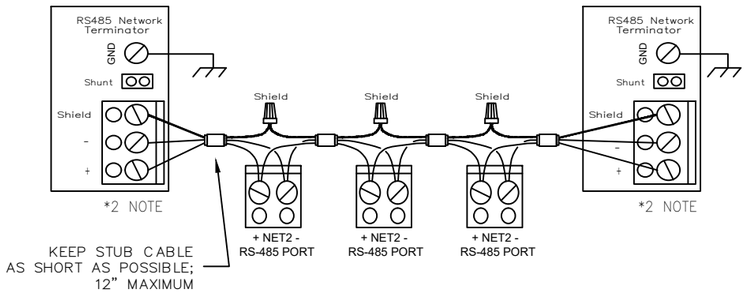
– THE LAYOUTS REPRESENTED ARE EXAMPLES OF HOW THE NETWORK MAY BE CONFIGURED. THERE IS NO REQUIREMENT TO FOLLOW THESE PROPOSED LAYOUTS, OTHER THAN MAINTAINING THE GROUPING UNDER EACH SYSTEM CONTROLLER.
– EACH APPLICATION CONTROLLER ON A GIVEN RS–485 BUS (UNDER EACH SYSTEM CONTROLLER) MUST HAVE UNIQUE ADDRESSING SET VIA THE DIP SWITCHES.

BACNET MS/TP, DELTA LINKNET & MODBUS-RTU (RS-485) BUS TERMINATIONS

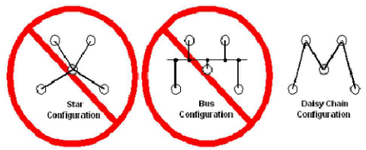
RS–485 TERMINATIONS USING ONE TRM–768 AND BUILT–IN TERMINATION



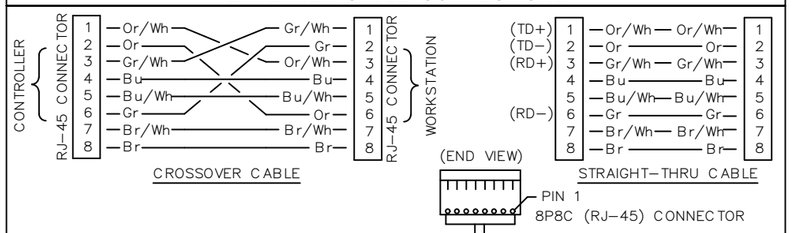
RS–485 TERMINATIONS USING TWO TRM–768s



ONLY A DAISY–CHAIN RS–485 MS/TP TOPOLOGY IS ALLOWED!



ETHERNET CABLE CONNECTIONS



– THE CONNECTIONS SHOWN ARE FOR CAT5 TWISTED–PAIR CABLE.

ETHERNET CABLE STANDARDS

1. ALL ETHERNET CABLE SHALL MEET THE FOLLOWING SPECIFICATIONS:
   – 10/100–BASE–T: 22 OR 24 AWG, (4) TWISTED–PAIR, SOLID COPPER WIRE (CAT–5 EQUIV.)
   MAX. SEGMENT LENGTH = 330 FT (100 m)
   MAX. NETWORK LENGTH = 2,000 FT (610 m)
   – 10/100–BASE–F: 62.5/125 MICRON CABLE
   MAX. SEGMENT LENGTH = 1,351 FT (412 m)
2. PLENUM–RATED CABLE SHALL BE USED WHERE REQUIRED BY LOCAL OR NATIONAL CODES.

INSTALLATION STANDARDS – NETWORK

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GEN–03
JOB NUMBER:
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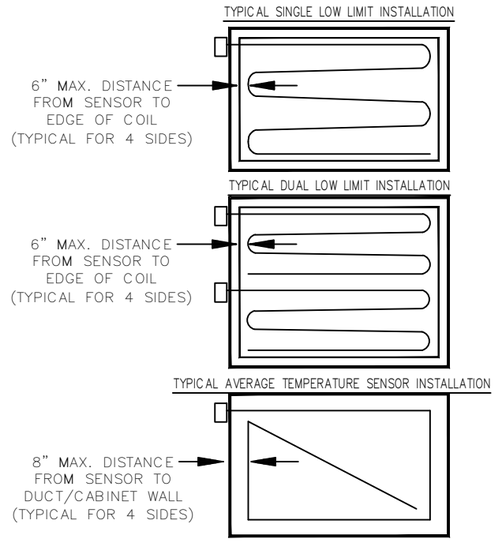
GENERAL MECHANICAL STANDARDS

1. VALVE PORT DETAILS SHOWN ON THE TEMPERATURE CONTROL DRAWINGS DO NOT NECESSARILY INDICATE THE ACTUAL VALVE CONFIGURATION. REFER TO MANUFACTURER'S LITERATURE FOR ACTUAL VALVE PORT CONFIGURATION.
2. ALL LIQUID PRESSURE SENSORS SHALL BE INSTALLED ON VERTICAL PIPING OR BELOW THE CENTERLINE OF HORIZONTAL PIPING TO PREVENT AIR ENTRAPMENT AT THE SENSOR.

DUCT / COIL TEMPERATURE SENSOR INSTALLATION



- ALL SENSORS SHALL BE PROTECTED FROM DAMAGE AT THE POINT OF ENTRY INTO THE DUCT/CABINET. EACH SENSOR SHALL BE PROTECTED BY A RUBBER GROMMET, BUSHING, PLASTIC TUBING OR ELECTRICAL TAPE AT THE POINT OF ENTRY.
- ALL SENSORS SHALL BE SECURELY ANCHORED ALONG THE FULL LENGTH TO PREVENT DAMAGE CAUSED BY VIBRATION.

PNEUMATIC TERMINATION LEGEND

- ◇ # = PNEUMATIC SIGNAL TERMINATION AT CONTROL PANEL
- △ # = INTRA-PANEL PNEUMATIC SIGNAL TERMINATION
- (S ##) = SUPPLY AIR TERMINATION AT CONTROL PANEL (## = PSI)
- △ S ## = INTRA-PANEL SUPPLY AIR TERMINATION (## = PSI)

RED-LINE REQUIREMENTS

ALL SUBCONTRACTORS ARE REQUIRED TO SUBMIT DETAILED RED-LINE MODIFICATIONS TO THESE PRINTS FOR INCLUSION IN THE AS-BUILT SET. RED-LINES MUST INCLUDE BUT ARE NOT NECESSARILY LIMITED TO:

1. ACCURATE EQUIPMENT LOCATIONS INDICATED ON FLOOR PLANS, INCLUDING ROOF MOUNTED EQUIPMENT RELATIVE TO THE UPPERMOST FLOOR IF NO ROOF PLAN IS PROVIDED.
2. SENSOR LOCATIONS INDICATED ON FLOOR PLANS.
3. EXACT MS/TP AND ETHERNET BUS WIRING CONFIGURATION SHOWN ON FLOOR PLANS (WHEN PROVIDED) AS WELL AS IN TABLE FORMAT.
4. ALL WIRING AND EQUIPMENT CHANGES MADE ON ANY PORTION OF THE JOB.
5. FOR JOBS WITH NO FLOOR PLANS, ALL EQUIPMENT (INCLUDING SENSORS) WILL BE NOTED WITH ROOM NAME AND NUMBER.
6. ALL BACKUP BATTERY TABS ARE TO BE PULLED AT TIME OF CONTROLLER INSTALLATION.
7. ALL CONTROLLER SERIAL NUMBERS ARE TO BE RECORDED BY INSTALLING CONTRACTOR AT TIME OF INSTALLATION. THIS INFORMATION IS TO BE PASSED TO TEMPERATURE CONTROL SERVICES, LLC., AS THE JOB PROGRESSES.

MECHANICAL NOTES

- NOT ALL PANELS MAY CONTAIN THE TRM-768 END-OF-LINE TERMINATION BOARD. SEE CONTROLLER WIRING AND/OR SCHEDULE SHEETS FOR DETAILS.
- VAV CONTROLLERS MAY OPERATE IN A STAND-ALONE CONFIGURATION. HOWEVER, THIS PROJECT CALLS FOR BUS COMMUNICATION BETWEEN CONTROLLERS.
- FOR CLARITY, NOT ALL FACTORY PROVIDED ELECTRICAL WIRING AND COMPONENTS WHICH INTERFACE WITH THIRD-PARTY CONTROLLERS ARE SHOWN. FIELD VERIFICATION OF INSTALLED COMPONENTS AND WIRING CONNECTIONS REQUIRED!
- ZONE PRESSURE SENSOR LOCATED IN CONTROL PANEL.

*- DX UNITS WILL BE CONTROLLED BY FACTORY-PROVIDED ZONE SENSOR, WIRED TO FACTORY SUPPLIED CONTROLLERS. WIRING TO BE INSTALLED BY OTHERS.

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Cable & Wire Requirements:					
	Circuit ID	**Cable Type**	**Equal to**	**Max Cable Length**	**Wiring Precautions**
RS-485 Network	**A**	22-24 AWG twisted pair, shielded, jacketed communication cable	Belden 9841, 82841	4000 ft (1220 m)	- Braided or Aluminum foil shield, Impedence 100-200 Ω, Capacitance 17 pF/ft or less. - Use for BACNet MS/TP, LINKNet, V2 Subnet, ModBUS-RTU
Ethernet	**B**	10/100 Base T, Cat5e, Cat6		no limit (w/ switches)	Follow IEEE 802.3 standards
Fiber Optic	**C**	Grade 3 (62.5/125µ) / Grade 4 (50/125µ), min 2 fiber, Mulimode, SC connector	Belden FDxM006P0	1000 ft (550m) for Gigabit Ethernet	Suggest 4 or more fibers for redundancy in case of damage
120 VAC	**D**	3 conductor, 12 AWG, Copper			
24 VAC / VDC	**E**	2 conductor, 16 AWG, Copper			
10k Ω / Dry Contact Input	**F**	2 conductor 18 AWG	Belden 8461NH	3900 ft (1200 m)	Ground only at controller input GND terminal
	G	2 conductor 22 AWG	Belden 88442	1500 ft (450 m)	
5 V Input	**H**	2 conductor 22 AWG shielded	Belden 83552	100 ft (30 m) 330 ft (100 m) w/ 20 kΩ load resistor	Keep Cable Short Use dedicated shielded cable
	J	2 conductor 20 AWG shielded	Belden 83602		
	K	3 conductor 20 AWG shielded	Belden 8772		
10 V Input	**L**	3 conductor 18 AWG unshielded	Belden 88870	330 ft (100 m)	
4-20mA Input	**M**	2 conductor 18 AWG unshielded	Belden 8461NH	3300 ft (1000 m)	
	N	4 conductor 18 AWG unshielded	Belden 88489		
Digital Input	**P**	2 conductor 18 AWG	Belden 8461NH	3900 ft (1200 m)	
	Q	2 conductor 22 AWG	Belden 88442	1500 ft (450 m)	
RTD Input	**R**	2 conductor 18 AWG	Belden 8461NH	No practical limit	Ground only at controller input GND terminal
	S	2 conductor 22 AWG	Belden 88442		
Analog 0-10 VDC Output	**T**	2 conductor 18 AWG unshielded	Belden 8461NH	330 ft (100 m)	
Analog 4-20mA Output	**U**	2 conductor 18 AWG unshielded	Belden 8461NH	Depends upon Impedence	ft = 1000 (500 - end dev Imp) / 12.8 m = 1000 (500 - end dev Imp) / 42
Binary Triac Output	**V**	2 conductor 18 AWG unshielded	Belden 8461NH	330 ft (100 m)	min turn-on current = 25 mA
Binary SS Relay Output	**W**	2 conductor 18 AWG unshielded	Belden 8461NH	330 ft (100 m)	No min turn-on current, max external Voltages: 28 VAC, 28 VDC
Binary Relay Output	**X**	2 conductor 18 AWG unshielded	Belden 8461NH	330 ft (100 m)	Max external Voltages: 28 VAC, 28 VDC

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ETHERNET NETWORK DROPS

*3 NOTE

Ethernet Network Drops & Controller Data									
No:	**System Name:**	**Existing Ctrl:**	**New Ctrl:**	**Mech Detail Location:**	**Floor Plan Location:**	**Device ID:**	**IP:**	**Gateway:**	**Subnet:**
1	AHU_A1	b3920	TBD	A109C - Mechanical	A111				
2	AHU_A2	b3920	TBD	A126 - Mechanical	A105				
3	AHU_A3	b3920	TBD	A209C - Mechanical	A220				
4	AHU_A4	b3920	TBD	A206A - Mechanical	A214				
5	AHU_B1	b3920	TBD	B155 - Mechanical	B115				
6	AHU_B2	b3920	TBD	B121 - Mechanical	B117				
7	AHU_B3	b3920	TBD	B234 - Mechanical	B208				
8	AHU_B4	b3920	TBD	H101 - Mechanical	B213				
9	AHU_B5	b3920	TBD	B101C - Mechanical	B103				
10	AHU_C1	b3814	TBD						
11	AHU_C2	b3814	TBD						
12	AHU_C3	b3814	TBD						
13	AHU_C4	b3814	TBD						
14	AHU_C5	b3920	TBD	Level C Basement - Mech.					
15	AHU_C6	b3814	TBD						
16	AHU_D1	b3814	TBD						
17	AHU_D2	b3814	TBD	C210B - Mechanical					
18	AHU_D3	b3920	TBD	D137 - Mechanical					
19	AHU_D4	b3814	TBD	D101 - Mechanical					
20	AHU_E1	b3814	TBD	Gym Unit E NW - Mechanical					
21	AHU_E2	b3814	TBD	Gym Unit E NE - Mechanical					
22	AHU_E3	b3814	TBD	Gym Unit E SW - Mechanical					
23	AHU_E4	b3814	TBD	Gym Unit E SE - Mechanical					
24	AHU_E5	b3814	TBD	Unit F 2nd Fl - Mechanical					
25	AHU_E6	b3814	TBD	Unit F 2nd Fl - Mechanical					
26	AHU_F1A	b3814	TBD	H104D - Mechanical ????					
27	AHU_F1B	b3920	TBD	H104D - Mechanical ????					
28	AHU_F2	b3920	TBD	Unit G - Mechanical					
29	CHW.Sys	b3920	TBD	Level C Basement - Mech.					
30	HW.System	b3814	TBD						
31	RefMonitor	b3814	TBD						
32	TrueNorthOffice	b3920	TBD						
33	Annunciator Panel	N/A	eBMGR-2	D100 - Custodial					
34	NorthviewBacnet1	bCX4040	TBD						
35	NorthviewBacnet2	bCX4040	TBD						
36	NorthviewBacnet3	bCX4040	TBD						

BILL OF MATERIALS

TAG	ITEM NAME	VENDOR P/N	DESCRIPTION	QTY	MANUF	LOC
CS1	eWEnt	345713	eWEnt enteliWEB Enterprise Software (Up to 5000 I/O)	1	Delta Controls	Office
CS2	eWEnt-UnLtd	345862	eWEnt-UnLtd enteliWEB Unlimited I/O Point Add-on Software (Unlimited I/O to eWEnt versions)	1	Delta Controls	Office
CS3	eWEnt-EV	345801	eWEnt-EV enteliVIZ Add-on Software (Add for eWEnt version)	1	Delta Controls	Office
CS4	eWEnt-VLT	346025	eWEnt-VLT enteliVAULT Add-on Software (Add for eWEnt version)	1	Delta Controls	Office
CS5	eWEnt-VLTUnLtd	346028	eWEnt-VLTUnLtd enteliVAULT Add-on Software (Add for eWEnt-UnLtd version)	1	Delta Controls	Office
CS6	eWEnt-Sub	345723	eWEnt-Sub Software Subscription (Up to 1 year after expiry)	1	Delta Controls	Office
CS7	eWEnt-SubUnLtd	345864	eWEnt-SubUnLtd Software Subscription (Up to 1 year after expiry)	1	Delta Controls	Office
CS8	eWEnt-VLT-Sub	346033	eWEnt-VLT-Sub eWEnt-VLT enteliVAULT License Subscription	1	Delta Controls	Office
CS9	VLTUnLtd-Sub	346036	VLTUnLtd-Sub eWEnt-VLTUnLtd enteliVAULT License Subscription	1	Delta Controls	Office

NOTES:
1. ALL SYSTEM CONTROL PANELS WILL HAVE A DEDICATED ETHERNET NETWORK DROP FROM THE SCHOOL'S NETWORK. INSTALL CAT 6a OR BETTER CABLE FROM PANEL TO DESIGNATED DROP.
2. REFER TO ELECTRICAL AND TECHNOLOGY DESIGN DRAWINGS FOR LOCATIONS OF ALL EXISTING OR NEW SYSTEM CONTROL ENCLOSURES. UPDATE RISERS WITH CONFIRMED INSTALLATION LOCATIONS FOR INCLUSION IN AS-BUILT PRINTS.
3. THERE ARE DISCREPANCIES IN MECHANICAL ROOM NUMBERS BETWEEN FLOOR PLANS AND MECHANICAL DETAILS. INSTALLER TO VERIFY ROOM INFORMATION AND UPDATE THIS TABLE ACCORDINGLY AS PART OF AS-BUILT DOCUMENTATION.

BAS ETHERNET NETWORK DROPS

Delta Controls
Temperature Control Services
108 N MAIN
ADVANCE, INDIANA 46102
PHONE: 765.481.8510
E-MAIL: NATHAN@TCSBAS.COM

UPDATES	
DATE	REMARKS
8/22/2024	ADDENDUM #1
8/29/2024	ADDENDUM #2
	ISSUED FOR CONST
	AS-BUILT

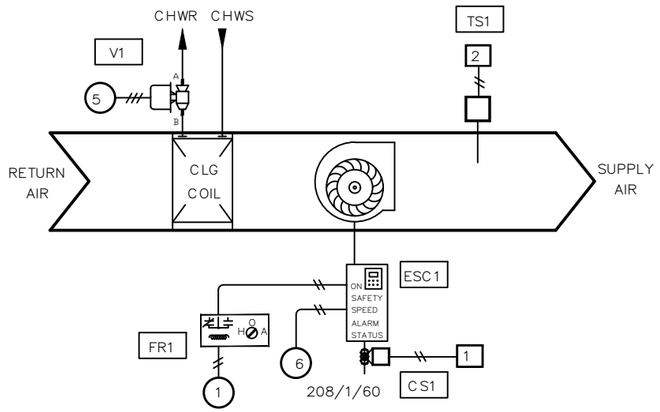
REVISIONS	
DATE	REMARKS

JOB TITLE: Operation Service Center (OSC)
LOCATION: MSD Washington Township, Indianapolis, IN
ENGINEER: Temperature Control Services, LLC
CONTRACT WITH: MSD Washington Township
DATE: 8/16/2024 CHK. BY: ___ DRAWN BY: BSS

CONTRACT NO:

SHEET
RISER-01
JOB NUMBER:
J-2408004

FAN COIL UNIT FIELD DEVICES



eZNS–T100 SERIES ROOM SENSOR (LINKNET)
(ST ONLY)

FAN COIL UNIT SCHEDULE

IDENTITY DATA			FAN DATA				ELECTRICAL DATA					NOTES
MARK	MANUF	MODEL	CFM	SPEED	GPM	FLUID TYPE	VOLTS (V)	PH	FREQ (HZ)	FLA (A)	MOCP (A)	
FCU-D1	TRANE	BCHE036	1000	HIGH	8.0	WATER	115	1	60	13.3	25.0	

BILL OF MATERIAL

TAG	ITEM NAME	VENDOR P/N	DESCRIPTION	QTY	MANUF	LOC
CS1	RIBXKTA	403501	RIBXKTA Solid Core, Adjustable Current Switch, 0.50-150 Amp, Terminal	1	Functional Devices	Field
ESC1	Spd Ctrl (EBO)	N/A	Speed Controller (by others)	1	Others	Field
FR1	RIB2401SBC	403273	RIB2401SBC Enclosed Relay 20 Amp SPDT + Override with 24 Vac/dc/120 Vac Coil	1	Functional Devices	Field
ST1	eZNS-T100-ND-SM-000-WWG	335353	eZNS-T100-ND-SM-000-WWG enteliZONE Network Sensor (No Display, Temp, Surface)	1	Delta Controls	Field
TS1	BA/10K-3-RPP-5'	400411	BA/10K-3-RPP-5' Remote Temp Probe, 5' Lead, Plenum Rated Cable	1	BAPI	Field
V1	CW Valve	See Schedule	See Valve Sch for Details	1	Belimo	Field

NETWORK POINTS
N1 THROUGH N4

FAN COIL UNIT FCU–D1 FIELD DEVICES

Delta Controls
Temperature Control Services
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ADVANCE, INDIANA 46102
PHONE: 765.481.8510
E-MAIL: NATHAN@TCSBAS.COM

UPDATES	
DATE	REMARKS
8/22/2024	ADDENDUM #1
	ISSUED FOR CONST
	AS–BUILT

REVISIONS	
DATE	REMARKS

JOB TITLE: Operation Service Center (OSC)
LOCATION: MSD Washington Township, Indianapolis, IN
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CONTRACT WITH: MSD Washington Township
DATE: 8/16/2024 CHK. BY:___ DRAWN BY: BSS

CONTRACT NO:

SHEET
OSC–01
JOB NUMBER:
J–2408004

INPUTS

INPUTS - EZFCP-424R4-24

CH.	BAC_ID	TAG	IN USE BY	DATA SHEET
1	1**xx.AI01	CS1	FAN STATUS	1400
2	1**xx.DI02	TS1	DAT	2008
3	1**xx.AI03			
4	1**xx.AI04			

OUTPUTS

OUTPUTS - EZFCP-424R4-24

CH	BAC_ID	TAG	IN USE BY	DATA SHEET
1	1**xx.D001	C1	FAN START / STOP	127
2	1**xx.D002			
3	1**xx.D003			
4	1**xx.D004			
5	1**xx.A005	V1	CWV	4406a
6	1**xx.A006	VFD1	FAN SPEED	EBO
7	1**xx.D007			
8	1**xx.D008			
9	1**xx.D009			
10	1**xx.D010			

NETWORK POINTS

LINKNET NETWORK POINTS - eZNS-T100

CH.	BAC_ID	TAG	IN USE BY	DATA SHEET
LN1	1**xx.LN1	ST1	SPACE TEMP SENSOR	132
LN2	1**xx.LN2			
LN3	1**xx.LN3			
LN4	1**xx.LN4			

NETWORK POINTS

NETWORK POINTS

CH.	BAC_ID	IN USE BY
N1	1**xx.LN1	FAN FAIL
N2	1**xx.LN2	LOW DAT (<45 DEG. F)
N3	1**xx.LN3	CHILLED WATER AVAILABLE
N4	1**xx.LN4	OCCUPIED
N5	1**xx.LN5	

COOLING ONLY FAN COIL UNIT SEQUENCE OF OPERATION:

TCC SHALL FURNISH CONTROLS AND DEVICES SPECIFIED AND THE CIC SHALL MOUNT AND WIRE PER COORDINATION DRAWINGS. CIC SHALL FURNISH AND INSTALL CONTROL AND POWER WIRING FOR FIELD INSTALLATION OF TCC PROVIDED TEMPERATURE SENSOR. CIC SHALL ALSO PROVIDE AND
INSTALL BACnet MS/TP DAISY-CHAIN CONNECTION PER TCC DIRECTION TO EACH CONTROLLER.

TCC SHALL PROGRAM LOGIC TO OPERATE EQUIPMENT PER THE FOLLOWING MODES: OCCUPIED ZONE CONTROL, UNOCCUPIED NIGHT SETUP, AND UNOCCUPIED.

SUPPLY FAN START/STOP: THE SUPPLY FAN (SF-C) WILL BE STARTED AND RUN CONTINUOUSLY WHEN IN COOLING MODE.

COOLING MODE: THE SUPPLY FAN SHALL RUN IF THE SPACE TEMPERATURE RISES 2 °F (ADJ) ABOVE THE SPACE TEMPERATURE SETPOINT AND STOP WHEN SPACE TEMPERATURE SETPOINT IS ACHIEVED. THE FAN SPEED SHALL BE MODULATED TO MAINTAIN SPACE TEMPERATURE AT SETPOINT WHEN OPERATING.

IF THE SUPPLY FAN STATUS (SF-S) DOES NOT MATCH THE COMMANDED VALUE, AN ALARM WILL BE GENERATED. WHEN THE SUPPLY FAN STATUS INDICATES THE FAN STARTED, THE CONTROL SEQUENCE WILL BE ENABLED. ANTI-SHORT CYCLE TIMER LOGIC SHALL PREVENT FAN OPERATION FROM STOPPING
FOR A MINIMUM OF 10 MINUTES (ADJ).

ZONE CONTROL: THE COOLING VALVE (CLG-VLV) SHALL MODULATE IN COOLING MODE TO ACHIEVE THE DESIRED DISCHARGE AIR TEMPERATURE AND REMAIN CLOSED WHEN BELOW SPACE TEMPERATURE SETPOINT. THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE RESET TO ACHIEVE 72 °F (ADJ)
COOLING AT ALL TIMES.

DISCHARGE AIR TEMPERATURE CONTROL: THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE RESET TO ACHIEVE 72 °F (ADJ) COOLING WITH A MINIMUM OF 55 °F (ADJ). USER SHALL BE ALLOWED TO ADJUST THE SETPOINT +/- 2 °F

UNOCCUPIED NIGHT SETUP MODE: WHEN THE BUILDING IS SCHEDULED FOR UNOCCUPIED MODE, THE UNIT WILL CYCLE AS NECESSARY TO MAINTAIN THE NIGHT SETUP ZONE TEMPERATURE AT SETPOINT OF 80 °F (ADJ). TCC LOGIC SHALL OPERATE THE EQUIPMENT NORMALLY UTILIZING UNOCCUPIED
COOLING SETPOINT. TCC LOGIC SHALL ENSURE THAT A DIFFERENTIAL PREVENTS THE UNIT FROM CYCLING EXCESSIVELY.

SHUTDOWN: WHEN THE UNIT IS SHUTDOWN BY EITHER A STOP COMMAND OR SYSTEM SAFETY THE UNIT WILL BE SET AS FOLLOWS:
SUPPLY FAN WILL BE OFF
COOLING VALVE WILL CLOSE

Delta Controls
Temperature Control Services
108 N MAIN
ADVANCE, INDIANA 46102
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E-MAIL: NATHAN@TCSBAS.COM

UPDATES

DATE	REMARKS
8/22/2024	ADDENDUM #1
	ISSUED FOR CONST
	AS-BUILT

REVISIONS

DATE	REMARKS

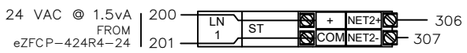
JOB TITLE: Operation Service Center (OSC)
LOCATION: MSD Washington Township, Indianapolis, IN
ENGINEER: Temperature Control Services, LLC
CONTRACT WITH: MSD Washington Township
DATE: 8/16/2024 CHK. BY: ____ DRAWN BY: BSS

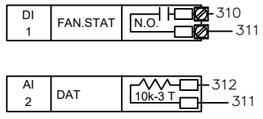
CONTRACT NO:

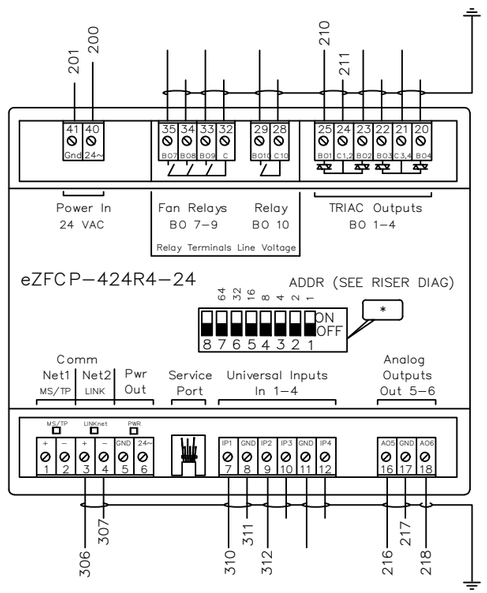
SHEET
OSC-02
JOB NUMBER:
J-2408004

FAN COIL UNIT CONTROLS

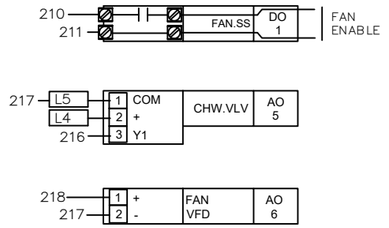
(TYPICAL FOR 1)







IN	NAME
1	FAN_STATUS
2	DAT
3	
4	
OUT	**NAME**
1	FAN_SS
2	
3	
4	
5	CWV
6	FAN_SPEED
7	
8	
9	
10	



Delta Controls

Temperature Control Services

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ADVANCE, INDIANA 46102
PHONE: 765.481.8510
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UPDATES	
DATE	REMARKS
8/22/2024	ADDENDUM #1
	ISSUED FOR CONST
	AS-BUILT

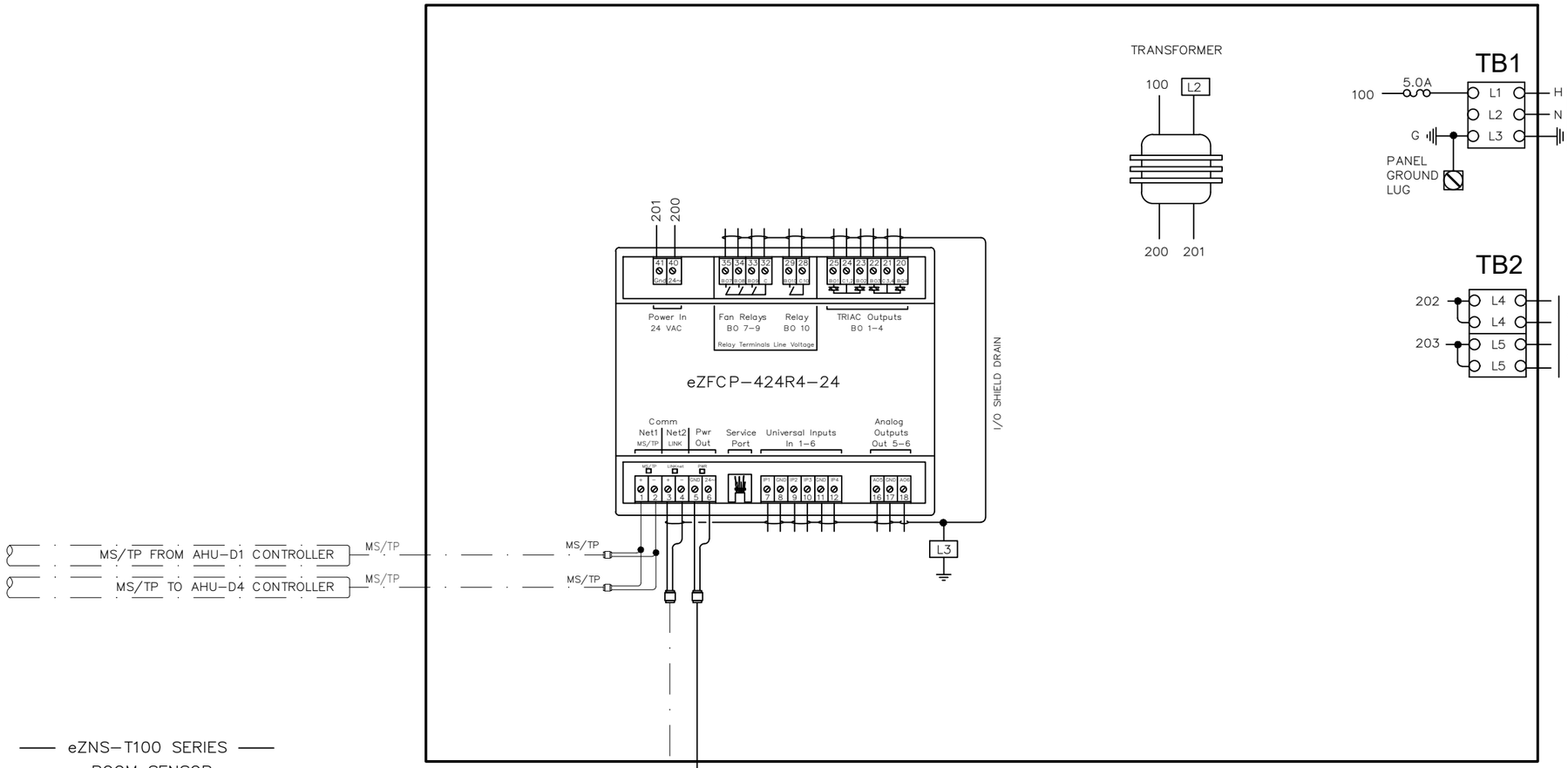
REVISIONS	
DATE	REMARKS

JOB TITLE: Operation Service Center (OSC)
LOCATION: MSD Washington Township, Indianapolis, IN
ENGINEER: Temperature Control Services, LLC
CONTRACT WITH: MSD Washington Township
DATE: 8/16/2024 CHK. BY: ____ DRAWN BY: BSS

CONTRACT NO:

SHEET
OSC-03
JOB NUMBER:
J-2408004

FCU–D1 – APPLICATION CONTROL PANEL
(TYPICAL FOR 1 PANEL)



FAN COIL UNIT FCU–D1 CONTROL PANEL – POWER & NETWORK WIRING

Delta Controls

Temperature Control Services
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PHONE: 765.481.8510
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UPDATES	
DATE	REMARKS
8/22/2024	ADDENDUM #1
	ISSUED FOR CONST
	AS–BUILT

REVISIONS	
DATE	REMARKS

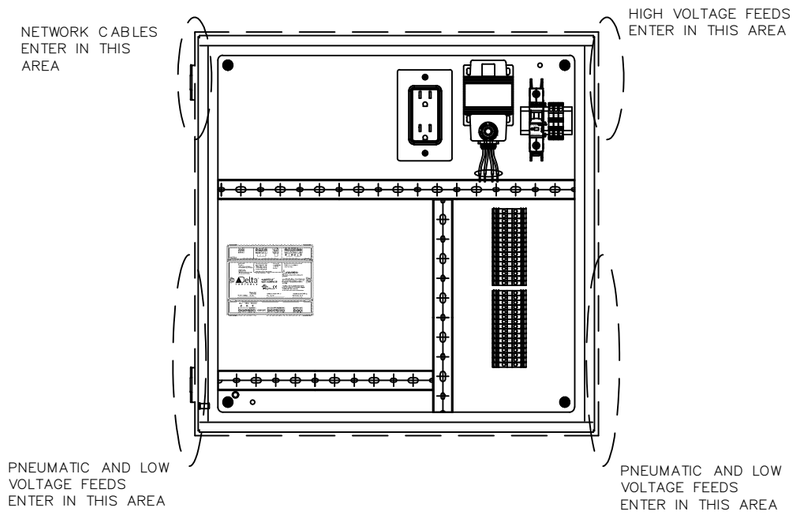
JOB TITLE: Operation Service Center (OSC)
LOCATION: MSD Washington Township, Indianapolis, IN
ENGINEER: Temperature Control Services, LLC
CONTRACT WITH: MSD Washington Township
DATE: 8/16/2024 CHK. BY: ____ DRAWN BY: BSS

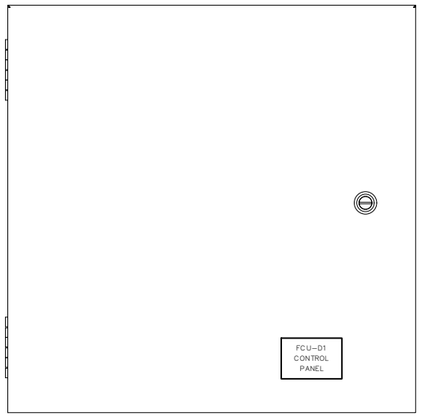
CONTRACT NO:

SHEET
OSC–04
JOB NUMBER:
J–2408004

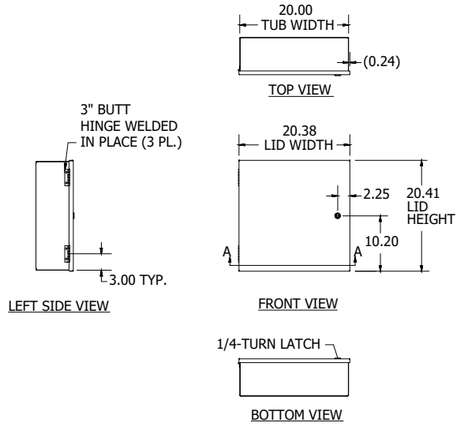
APPLICATION CONTROL PANEL LAYOUT
(TYPICAL FOR 1 PANEL)

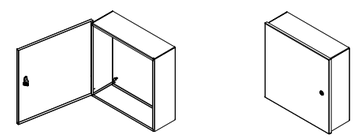
NO CONDUITS THROUGH THE TOP OF THE PANEL!



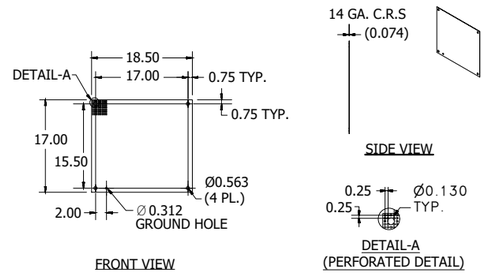


20" (W) x 20" (H) ENCLOSURE DIMENSIONS





PANEL DIMENSIONS



BILL OF MATERIALS

TAG	ITEM NAME	VENDOR P/N	DESCRIPTION	QTY	MANUF	LOC
C1	eZFCP-424R4-24	323426	eZFCP-424R4-24 enteliZONE Fan Coil Controller (24VAC Prog, 4UI, 2AO, 4TRIAC, 3 Fan and 1 aux relay)	1	Delta Controls	Panel
PNL1	PNL-FCU	PNL-FCU	TCS Panel Build - FCU Terminal Dev Style	1	TCS	Panel
TX1	TR75VA005	403599	TR75VA005 Transformer 75VA, 480/240/208/120 to 24 Vac, Circuit Breaker, Foot & Single Threaded Hub	1	Functional Devices	Panel

Temperature Control Services
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PHONE: 765.481.8510
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UPDATES	
DATE	REMARKS
8/22/2024	ADDENDUM #1
	ISSUED FOR CONST
	AS-BUILT

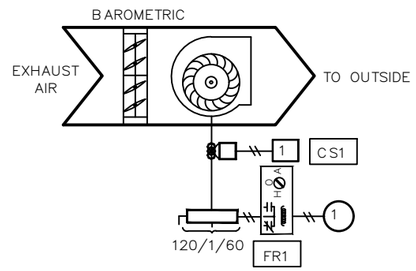
REVISIONS	
DATE	REMARKS

JOB TITLE: Operation Service Center (OSC)
LOCATION: MSD Washington Township, Indianapolis, IN
ENGINEER: Temperature Control Services, LLC
CONTRACT WITH: MSD Washington Township
DATE: 8/16/2024 CHK. BY: ___ DRAWN BY: BSS

CONTRACT NO:

SHEET
OSC-05
JOB NUMBER:
J-2408004

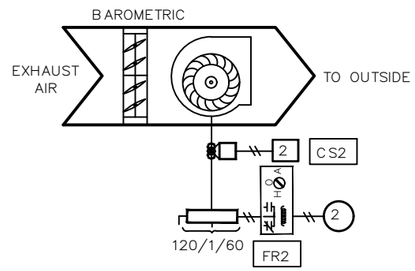
EXHAUST FAN – BAS CONTROLLED
EF–G2



EXHAUST FAN SEQUENCE OF OPERATION:

THE EXHAUST FAN SHALL BE STARTED ACCORDING TO THE OWNER-DEFINED SCHEDULE. IF THE EXHAUST FAN STATUS (EF-S) DOES NOT MATCH THE COMMANDED VALUE AFTER 180 SECONDS (ADJ), AN ALARM SHALL BE GENERATED.

EXHAUST FAN – BAS CONTROLLED
EF–G3



EXHAUST FAN SEQUENCE OF OPERATION:

THE EXHAUST FAN SHALL BE STARTED ACCORDING TO THE OWNER-DEFINED SCHEDULE. IF THE EXHAUST FAN STATUS (EF-S) DOES NOT MATCH THE COMMANDED VALUE AFTER 180 SECONDS (ADJ), AN ALARM SHALL BE GENERATED.

INPUTS

INPUTS - EZFCP-424R4-24

CH.	BAC_ID	TAG	IN USE BY	DATA SHEET
1	1**xx.AI01	CS1	EF-G2 FAN STATUS	1400
2	1**xx.DI02	CS2	EF-G3 FAN STATUS	1400
3	1**xx.AI03			
4	1**xx.AI04			

OUTPUTS

OUTPUTS - EZFCP-424R4-24

CH	BAC_ID	TAG	IN USE BY	DATA SHEET
1	1**xx.D001	FR1	EF-G2 FAN START/STOP	3007
2	1**xx.D002	FR2	EF-G3 FAN START/STOP	3007
3	1**xx.D003			
4	1**xx.D004			
5	1**xx.A005			
6	1**xx.A006			
7	1**xx.D007			
8	1**xx.D008			
9	1**xx.D009			
10	1**xx.D010			

NETWORK POINTS

NETWORK POINTS

CH.	BAC_ID	IN USE BY
N1	1**xx.LN1	FAN FAIL
N2	1**xx.LN2	OCCUPIED
N3	1**xx.LN3	

BILL OF MATERIAL

TAG	ITEM NAME	VENDOR P/N	DESCRIPTION	QTY	MANUF	LOC
CS1-2	RIBXKTA	403501	RIBXKTA Solid Core, Adjustable Current Switch, 0.50-150 Amp, Terminal	2	Functional Devices	Field
FR1-2	RIB2401SBC	403273	RIB2401SBC Enclosed Relay 20 Amp SPDT + Override with 24 Vac/dc/120 Vac Coil	2	Functional Devices	Field

NETWORK POINTS
N1 THROUGH N2

EXHAUST FANS EF–G2 & G3 FIELD DEVICES, POINT TABLES, AND SEQUENCE OF OPERATION

Delta Controls
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UPDATES	
DATE	REMARKS
8/22/2024	ADDENDUM #1
	ISSUED FOR CONST
	AS–BUILT

REVISIONS	
DATE	REMARKS

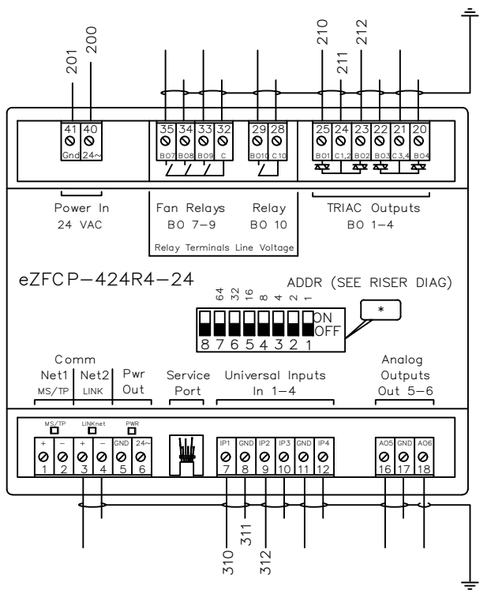
JOB TITLE: Operation Service Center (OSC)
LOCATION: MSD Washington Township, Indianapolis, IN
ENGINEER: Temperature Control Services, LLC
CONTRACT WITH: MSD Washington Township
DATE: 8/16/2024 CHK. BY: ___ DRAWN BY: BSS

CONTRACT NO:

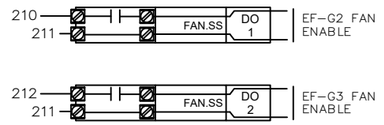
SHEET
OSC–06
JOB NUMBER:
J–2408004

EF–G2 & G3 UNIT CONTROLS

(TYPICAL FOR 1)



IN	NAME
1	EF–G2_FAN_STAT
2	EF–G3_FAN_STAT
3	
4	
OUT	**NAME**
1	EF–G2_FAN_SS
2	EF–G3_FAN_SS
3	
4	
5	
6	
7	
8	
9	
10	



Delta Controls
Temperature Control Services
108 N MAIN
ADVANCE, INDIANA 46102
PHONE: 765.481.8510
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UPDATES	
DATE	REMARKS
8/22/2024	ADDENDUM #1
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REVISIONS	
DATE	REMARKS

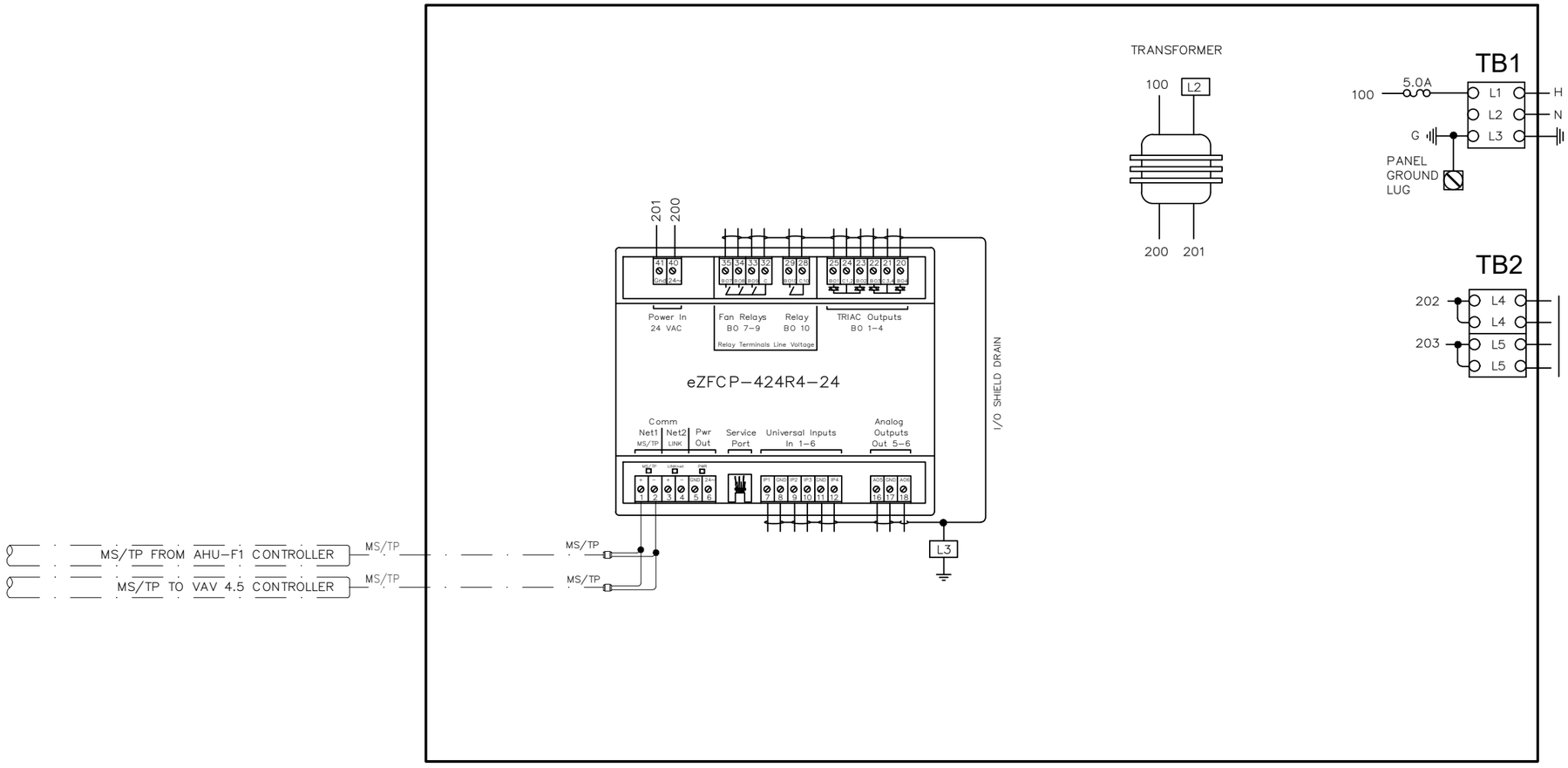
JOB TITLE: Operation Service Center (OSC)
LOCATION: MSD Washington Township, Indianapolis, IN
ENGINEER: Temperature Control Services, LLC
CONTRACT WITH: MSD Washington Township
DATE: 8/16/2024 CHK. BY: ____ DRAWN BY: BSS

CONTRACT NO:

SHEET
OSC–07
JOB NUMBER:
J–2408004

EF–G2 & G3 – APPLICATION CONTROL PANEL

(TYPICAL FOR 1 PANEL)



EXHAUST FAN EF–G2 & G3 CONTROL PANEL – POWER & NETWORK WIRING

Delta Controls

Temperature Control Services
108 N MAIN
ADVANCE, INDIANA 46102
PHONE: 765.481.8510
E-MAIL: NATHAN@TCSBAS.COM

UPDATES	
DATE	REMARKS
8/22/2024	ADDENDUM #1
	ISSUED FOR CONST
	AS–BUILT

REVISIONS	
DATE	REMARKS

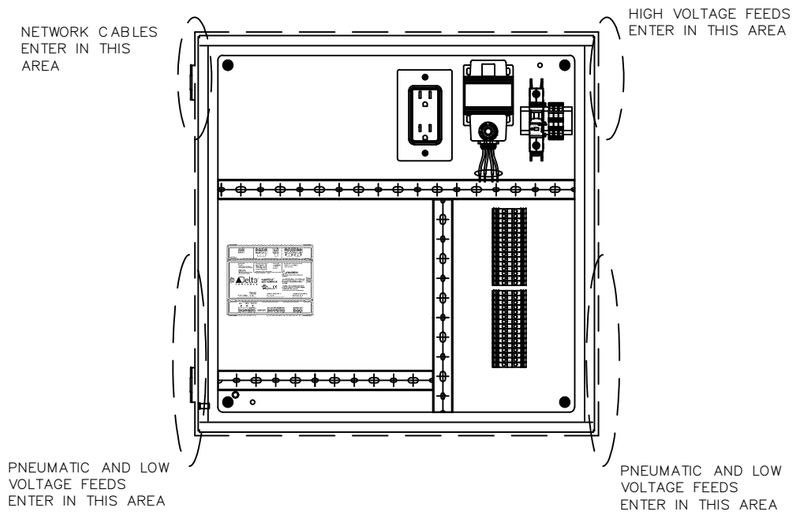
JOB TITLE: Operation Service Center (OSC)
LOCATION: MSD Washington Township, Indianapolis, IN
ENGINEER: Temperature Control Services, LLC
CONTRACT WITH: MSD Washington Township
DATE: 8/16/2024 CHK. BY: ___ DRAWN BY: BSS

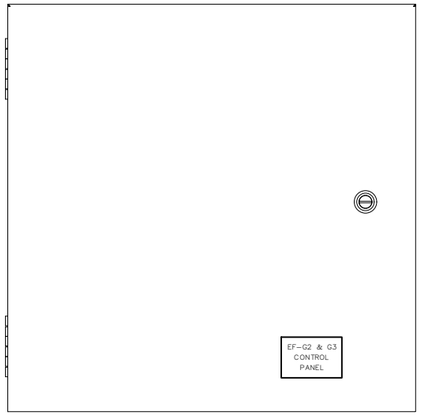
CONTRACT NO:

SHEET
OSC–08
JOB NUMBER:
J–2408004

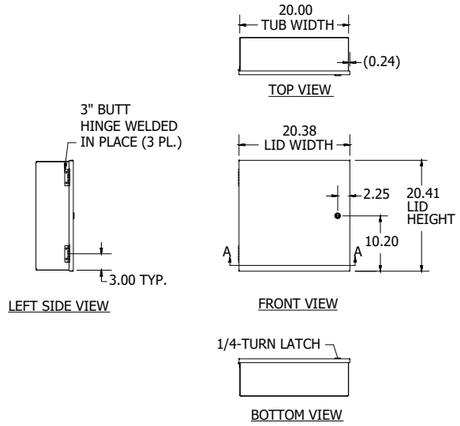
APPLICATION CONTROL PANEL LAYOUT
(TYPICAL FOR 1 PANEL)

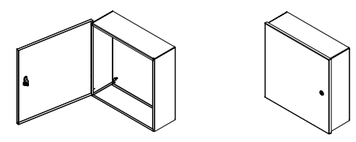
NO CONDUITS THROUGH THE TOP OF THE PANEL!



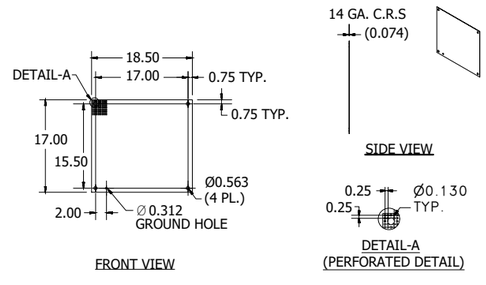


20" (W) x 20" (H) ENCLOSURE DIMENSIONS





PANEL DIMENSIONS



BILL OF MATERIALS

TAG	ITEM NAME	VENDOR P/N	DESCRIPTION	QTY	MANUF	LOC
C1	eZFCP-424R4-24	323426	eZFCP-424R4-24 enteliZONE Fan Coil Controller (24VAC Prog, 4UI, 2AO, 4TRIAC, 3 Fan and 1 aux relay)	1	Delta Controls	Panel
PNL1	PNL-FCU	PNL-FCU	TCS Panel Build - FCU Terminal Dev Style	1	TCS	Panel
TX1	TR75VA005	403599	TR75VA005 Transformer 75VA, 480/240/208/120 to 24 Vac, Circuit Breaker, Foot & Single Threaded Hub	1	Functional Devices	Panel

EXHAUST FAN EF-G2 & G3 CONTROL PANEL – DIMENSIONS & BOM

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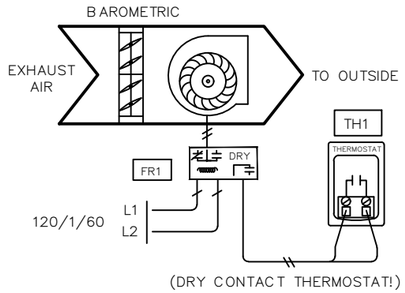
CONTRACT NO:

SHEET
OSC-09
JOB NUMBER:
J-2408004

EXHAUST FAN – THERMOSTAT CTRL
EF–B1



EXHAUST FAN SEQUENCE OF OPERATION:

THE EXHAUST FAN SHALL BE STARTED ACCORDING TO THE WALL MOUNTED THERMOSTAT. CONTROLS INSTALLATION CONTRACTOR SHALL SET ADJUSTABLE THERMOSTAT TO CONTROL SPACE TEMPERATURE TO 75 DEG. F. SEE ELECTRICAL DRAWINGS FOR DISCONNECT LOCATION INFORMATION.

BILL OF MATERIAL

TAG	ITEM NAME	VENDOR P/N	DESCRIPTION	QTY	MANUF	LOC
FR1	RIB21CDC	403264	RIB21CDC Enclosed Relay 10 Amp SPDT, Class 2 Dry Contact Input, 120-277 Vac Power Input	1	Functional Devices	Field
TH1	ETD9STS	499713	ETD9STS TSTAT-SPDT HEAT OR COOL/5090F/TERMINALS	1	Kele	Field

NETWORK POINTS

N1 THROUGH N2

EXHAUST FAN EF–B1 FIELD DEVICES, POINT TABLES, & SEQUENCE OF OPERATION

Delta Controls

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OSC–10
JOB NUMBER:
J–2408004

BAS ALARM MONITORING

BILL OF MATERIALS

TAG	ITEM NAME	VENDOR P/N	DESCRIPTION	QTY	MANUF	LOC
BZR1	Panel Buzzer	ECX2070-24	Buzzer, 25mA, 24Vac/dc, 80dB	1	Automation Direct	Panel
PLG1-32	AP8M122-G	499694	AP8M122-G PILOT LIGHT MINIATURE 8MM FLAT LENS ACDC 24V GREE LV, PDT	32	Kele	Panel
PLR1-37	AP8M122-R	499695	AP8M122-R PILOT LIGHT MINIATURE 8MM FLAT LENS AC/DC 24V RED	37	Kele	Panel
SW1	ABW111	499915	ABW111 PUSH BUTTON 1NO 1NC MOMENTARY FLUSH -3 COLORS	1	Kele	Panel
SW2	ABW111	499915	ABW111 PUSH BUTTON 1NO 1NC MOMENTARY FLUSH -3 COLORS	1	Kele	Panel

BAS ALARM ANNUNCIATOR PANEL LAYOUT

Delta Controls

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SHEET
OSC-11
JOB NUMBER:
J-2408004

BUILDING MANAGEMENT SYSTEM ANNUNCIATOR PANEL

IT IS THE INTENTION OF THIS DESIGN TO INCLUDE A WALL MOUNTED ANNUNCIATOR PANEL THAT PROVIDES NORMAL AND ALARM CONDITION FEEDBACK OF THE MAJOR MECHANICAL EQUIPMENT IN THE BUILDING TO ASSIST THE OWNER WITH RESPONSE TIME TO EQUIPMENT ISSUES. CHILLERS, BOILERS, AIR HANDLERS, PUMPS, AND OTHER CRITICAL EQUIPMENT SHALL BE MONITORED FOR A NORMAL OR ALARM CONDITION. A GRAPHIC REPRESENTING AN EXACT REPLICA OF THE WALL MOUNTED PANEL SHALL BE PROVIDED BY TCC FOR REMOTE MONITORING OF BUILDING CONDITIONS INCLUDING LOCAL ACCESS BY STAFF. TCC SHALL FURNISH ALL PROGRAMMING, MATERIALS, ALARMS, LIGHT CONTROL, AND INTEGRATIONS REQUIRED FOR A COMPLETE REPRESENTATION OF ALL BUILDING AUTOMATION EQUIPMENT CONDITION FEEDBACK. CIC IS RESPONSIBLE FOR INSTALLATION OF TCC PROVIDED EQUIPMENT. TCC IS RESPONSIBLE TO PROVIDE SUBMITTAL OF PROPOSED DESIGN TO THE ENGINEER AND OWNER FOR APPROVAL PRIOR TO PROJECT COMPLETION. TCC SHALL INCLUDE DETAILS IN SUBMITTAL IDENTIFYING NORMAL / ALARM DEDICATED SYSTEM LIGHTS AND NEGOTIATED USER-DEFINED LOGIC INCLUDING A PANEL LAYOUT AND ALARM CONDITION MATRIX. THE GRAPHIC SHALL INCLUDE THE ADDITIONAL FUNCTIONALITY TO DISPLAY WHAT CONDITIONS MUST BE CORRECTED AND/OR ACTIONS TAKEN TO CLEAR AN ACTIVE ALARM. INDICATION OF FIRE ALARM SYSTEM STATUS SHALL BE A CUSTOM POINT AND WILL REQUIRE COORDINATION WITH THE EXISTING FIRE ALARM CONTRACTOR. CIC SHALL COORDINATE WITH TECHNOLOGY CONTRACTOR AND PROVIDE ETHERNET HOMERUN TO NEARBY BUILDING NETWORK SWITCH.

REMOTE ANNUNCIATOR PANEL: TCC SHALL FURNISH AND CIC SHALL INSTALL THE ANNUNCIATOR PANEL IN THE BUILDING FOREMAN'S OFFICE IN A HIGHLY VISIBLE LOCATION. TCC SHALL FURNISH AN ETHERNET LEVEL CONTROLLER AND ALL REQUIRED PANEL AND FIELD DEVICES FOR A COMPREHENSIVE SOLUTION SPECIFIC TO THE EQUIPMENT IN THE BUILDING. IN ADDITION TO EQUIPMENT FEEDBACK, THE PANEL SHALL ALSO INCLUDE LOCAL HORN/STROBE, SILENCE BUTTON, AND TEST BUTTON. THE PANEL SHALL INCLUDE A TOTAL OF (5) SPARE USER-DEFINABLE ALARM LIGHTS THAT THE OWNER CAN CUSTOMIZE AS NEEDED.

IDF/ MDF NETWORK CONNECTION: THE TECHNOLOGY CONTRACTOR SHALL FURNISH, ROUTE, AND INSTALL A NETWORK CONNECTION FROM THE ANNUNCIATOR PANEL TO THE NEAREST BUILDING NETWORK SWITCH. TCC RESPONSIBLE TO COORDINATE WITH THE OWNER FOR SWITCH UTILIZATION, ROUTING APPROVAL, FINAL CONNECTIONS, AND PORT PROVISIONING ON THE NETWORK. FIRE CAULKING WHERE REQUIRED IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND SHALL BE IDENTIFIED AND COORDINATED BY THE TECHNOLOGY CONTRACTOR.

120VAC POWER REQUIREMENT: THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER TO THE ANNUNCIATOR PANEL AND COORDINATE WITH CIC FOR TERMINAL STRIP TERMINATION REQUIREMENTS. ALL INSTALLATION AND MATERIAL, INCLUDING BUT NOT LIMITED TO, POWER LINE FILTERING TO THE ANNUNCIATOR PANEL IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

THIRD-PARTY BACnet CONSIDERATION: NORMAL AND ALARM CONDITIONS THAT ORIGINATE FROM NON-DELTA CONTROLLERS SHALL UTILIZE THE BACnet POINTS MADE AVAILABLE BY THE MANUFACTURER TO DETERMINE ANNUNCIATOR FEEDBACK.

NORMAL AND ALARM EQUIPMENT CONDITIONS: TCC SHALL MONITOR EQUIPMENT RUN COMMANDS AND STATUS FEEDBACK ON EQUIPMENT CONTROLLED BY THIRD PARTY CONTROLLERS TO DETERMINE AN ALARM (RED) OR NORMAL (GREEN) CONDITION. EQUIPMENT IN HAND OR NOT REFLECTIVE OF COMMAND SHALL VISIBLY (RED LIGHT) AND AUDIBLY (LOCAL HORN/STROBE) INDICATE ALARM CONDITION. BACnet INTEGRATIONS THAT INCLUDE RUN COMMAND AND STATUS FEEDBACK POINTS SHALL HAVE DEDICATED ALARM/NORMAL (RED/GREEN) INDICATION. LOSS OF COMMUNICATION SHALL RESULT IN A EQUIPMENT SPECIFIC ALARM (RED) CONDITION. ADDITIONAL LOGIC CONSIDERATION OF: DISCHARGE AIR AND WATER TEMPERATURES OUTSIDE OF A +/- 10 F (ADJ) DEADBAND OR ANY SYSTEM SAFETY TRIP, INCLUDING BUT NOT LIMITED TO: LOW LIMIT, SMOKE DETECTION, LOW/HIGH STATIC, OR LOW/HIGH HUMIDITY SHALL RESULT IN AN ALARM (RED LIGHT) CONDITION.

Delta Controls
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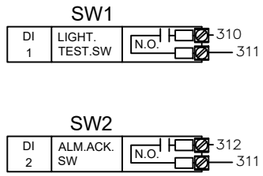
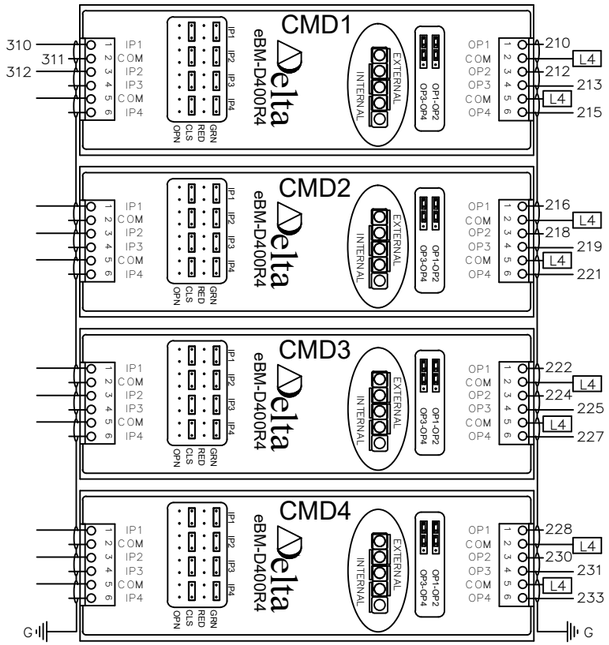
CONTRACT NO:

SHEET
OSC-12
JOB NUMBER:
J-2408004





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1	1	10100.1101	SW1	LIGHT TEST	1805	eBM-D400R4 I/O MOD
2	2	10100.1102	SW2	ALARM ACKNOWLEDGE	1805	
3	3	10100.1103				
4	4	10100.1104				
5	1	10100.1101	PR1	HWS STATUS LTS	3010	
6	2	10100.1102	PR2	CWS STATUS LTS	3010	
7	3	10100.1103	PR3	REF MON STATUS LTS	3010	
8	4	10100.1104	PR4	TRUE NORTH STATUS LTS	3010	

eBM-D400R CMD1

ID.	CH.	BAC_ID	TAG	IN USE BY	DATA SHEET	
9	1	10100.1201				eBM-D400R4 I/O MOD
10	2	10100.1202				
11	3	10100.1203				
12	4	10100.1204				
13	1	10100.1201	PR5	AHU-A1 STATUS LTS	3010	
14	2	10100.1202	PR6	AHU-A2 STATUS LTS	3010	
15	3	10100.1203	PR7	AHU-A3 STATUS LTS	3010	
16	4	10100.1204	PR8	AHU-A4 STATUS LTS	3010	

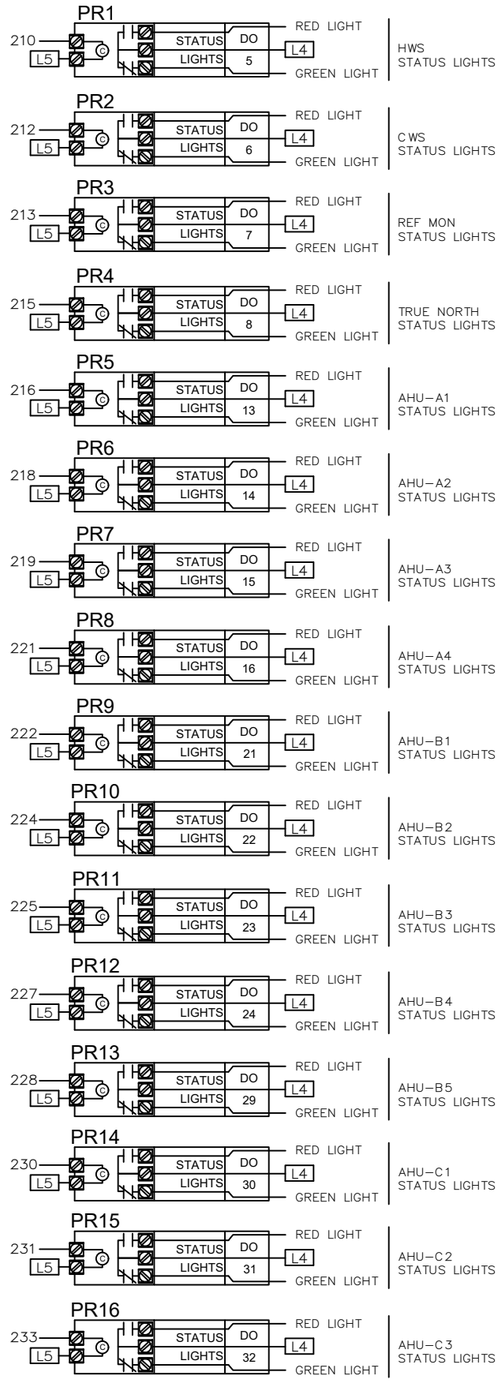
eBM-D400R CMD2

ID.	CH.	BAC_ID	TAG	IN USE BY	DATA SHEET	
17	1	10100.1301				eBM-D400R4 I/O MOD
18	2	10100.1302				
19	3	10100.1303				
20	4	10100.1304				
21	1	10100.1301	PR9	AHU-B1 STATUS LTS	3010	
22	2	10100.1302	PR10	AHU-B2 STATUS LTS	3010	
23	3	10100.1303	PR11	AHU-B3 STATUS LTS	3010	
24	4	10100.1304	PR12	AHU-B4 STATUS LTS	3010	

eBM-D400R CMD3

ID.	CH.	BAC_ID	TAG	IN USE BY	DATA SHEET	
25	1	10100.1401				eBM-D400R4 I/O MOD
26	2	10100.1402				
27	3	10100.1403				
28	4	10100.1404				
29	1	10100.1401	PR13	AHU-B5 STATUS LTS	3010	
30	2	10100.1402	PR14	AHU-C1 STATUS LTS	3010	
31	3	10100.1403	PR15	AHU C2 STATUS LTS	3010	
32	4	10100.1404	PR16	AHU-C3 STATUS LTS	3010	

eBM-D400R CMD4



Delta CONTROLS
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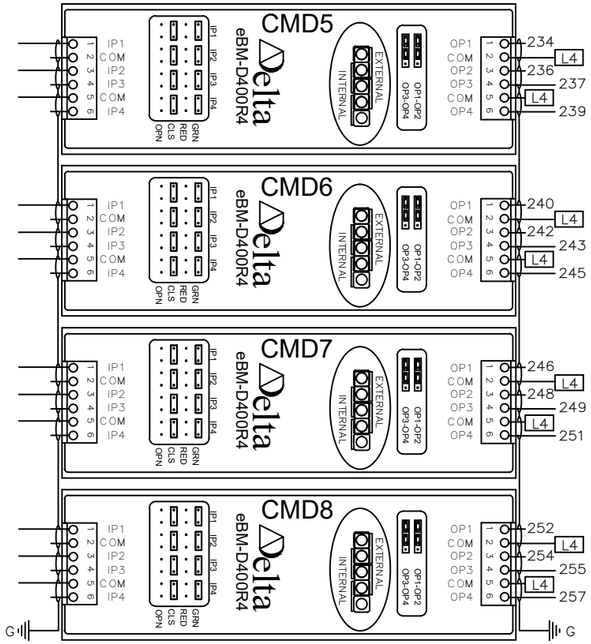
SHEET
OSC–13
JOB NUMBER:
J–2408004



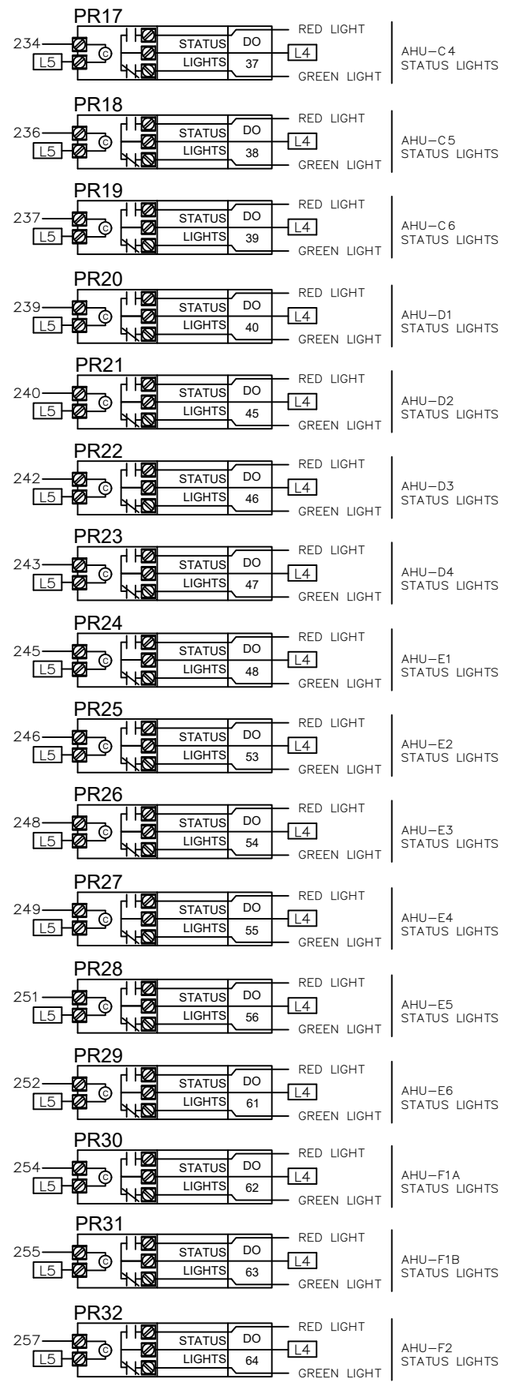
ID.	CH.	BAC_ID	TAG	IN USE BY	DATA SHEET	
33	1	10100.1501				eBM-D400R4 I/O MOD
34	2	10100.1502				
35	3	10100.1503				
36	4	10100.1504				
37	1	10100.1501	PR17	AHU-C4 STATUS LTS	3010	
38	2	10100.1502	PR18	AHU-C5 STATUS LTS	3010	
39	3	10100.1503	PR19	AHU-C6 STATUS LTS	3010	
40	4	10100.1504	PR20	AHU-D1 STATUS LTS	3010	
ID.	CH.	BAC_ID	TAG	IN USE BY	DATA SHEET	
41	1	10100.1601				eBM-D400R4 I/O MOD
42	2	10100.1602				
43	3	10100.1603				
44	4	10100.1604				
45	1	10100.1601	PR21	AHU-D2 STATUS LTS	3010	
46	2	10100.1602	PR22	AHU-D3 STATUS LTS	3010	
47	3	10100.1603	PR23	AHU-D4 STATUS LTS	3010	
48	4	10100.1604	PR24	AHU-E1 STATUS LTS	3010	
ID.	CH.	BAC_ID	TAG	IN USE BY	DATA SHEET	
49	1	10100.1701				eBM-D400R4 I/O MOD
50	2	10100.1702				
51	3	10100.1703				
52	4	10100.1704				
53	1	10100.1701	PR25	AHU-E2 STATUS LTS	3010	
54	2	10100.1702	PR26	AHU-E3 STATUS LTS	3010	
55	3	10100.1703	PR27	AHU-E4 STATUS LTS	3010	
56	4	10100.1704	PR28	AHU-E5 STATUS LTS	3010	
ID.	CH.	BAC_ID	TAG	IN USE BY	DATA SHEET	
57	1	10100.1801				eBM-D400R4 I/O MOD
58	2	10100.1802				
59	3	10100.1803				
60	4	10100.1804				
61	1	10100.1801	PR29	AHU-E6 STATUS LTS	3010	
62	2	10100.1802	PR30	AHU-F1A STATUS LTS	3010	
63	3	10100.1803	PR31	AHU-F1B STATUS LTS	3903	
64	4	10100.1804	PR32	AHU-F2 STATUS LTS	3903	

eBM-D400R CMD5

eBM-D400R CMD6

eBM-D400R CMD7

eBM-D400R CMD8



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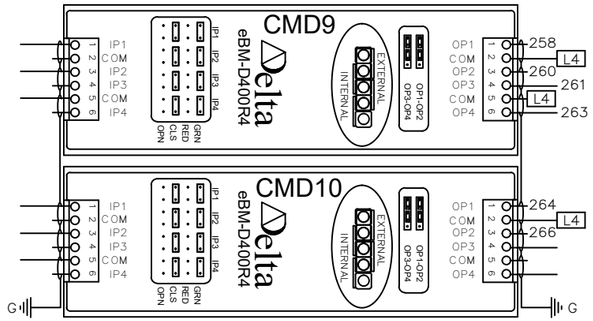

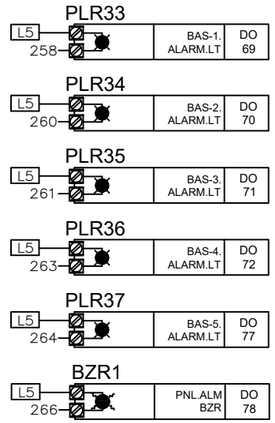

CMD9 eBM-D400R

ID.	CH.	BAC_ID	TAG	IN USE BY	DATA SHEET	
65	1	10100.2101				eBM-D400R4 I/O MOD
66	2	10100.2102				
67	3	10100.2103				
68	4	10100.2104				
69	1	10100.2101	PLR33	BAS ALARM OPTION 1	3903	
70	2	10100.2102	PLR34	BAS ALARM OPTION 2	3903	
71	3	10100.2103	PLR35	BAS ALARM OPTION 3	3903	
72	4	10100.2104	PLR36	BAS ALARM OPTION 4	3903	

CMD10 eBM-D400R

ID.	CH.	BAC_ID	TAG	IN USE BY	DATA SHEET	
73	1	10100.2201				eBM-D400R4 I/O MOD
74	2	10100.2202				
75	3	10100.2203				
76	4	10100.2204				
77	1	10100.2201	PLR37	BAS ALARM OPTION 5	3903	
78	2	10100.2202	BZR1	ALM PANEL BUZZER	614	
79	3	10100.2203				
80	4	10100.2204				

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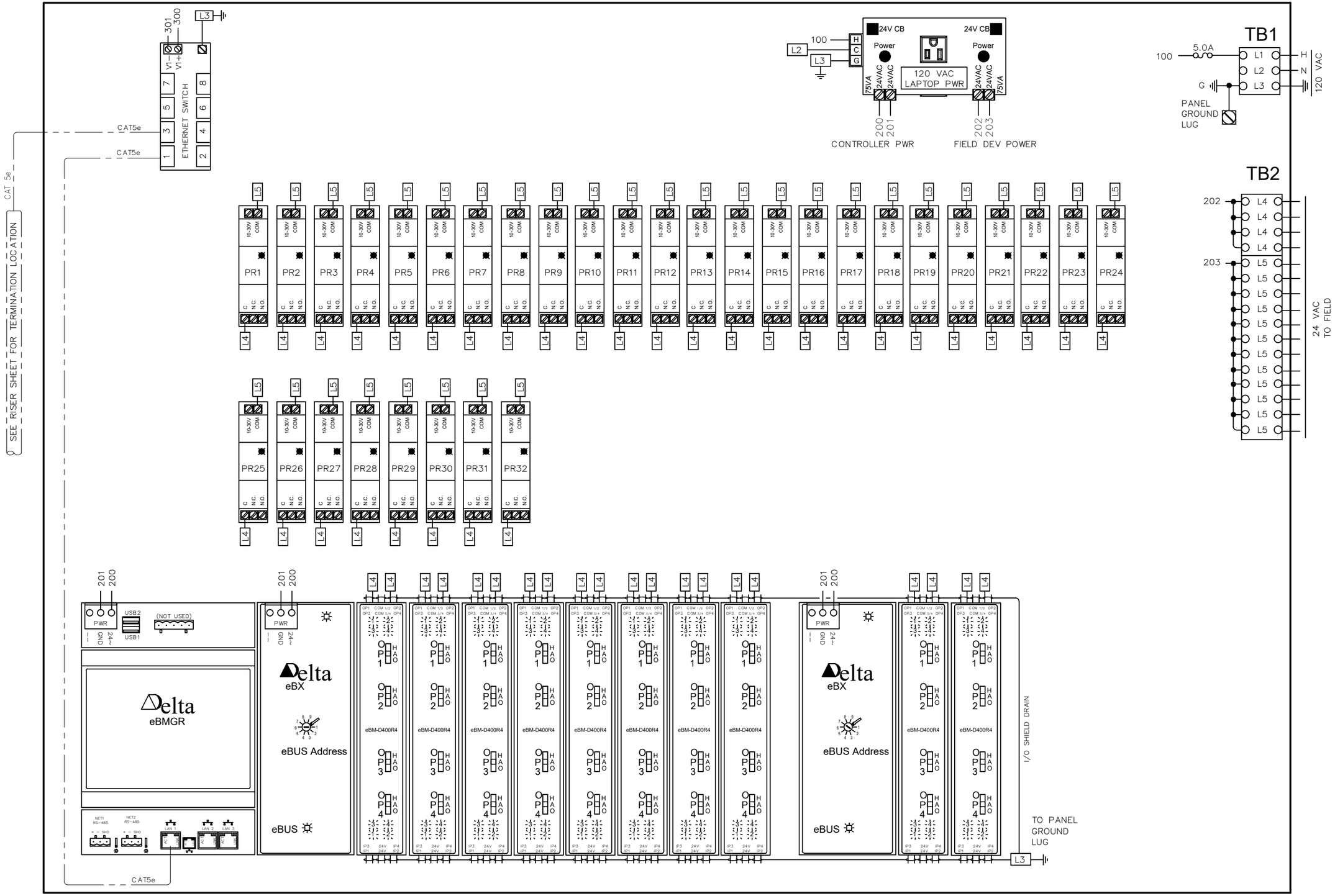
SHEET
OSC-15
JOB NUMBER:
J-2408004

SYSTEM CONTROL PANEL 01



SEE RISER DIAGRAMS FOR LOCATION

ANNUNCIATOR PANEL SYSTEM 01 CONTROL PANEL – POWER & NETWORK WIRING

Delta Controls

Temperature Control Services

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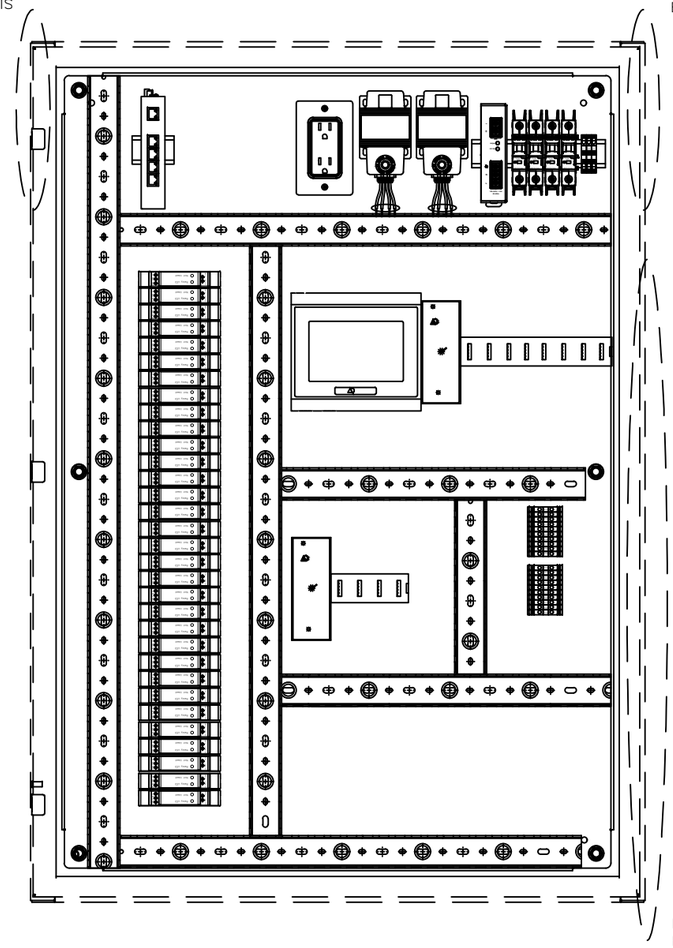
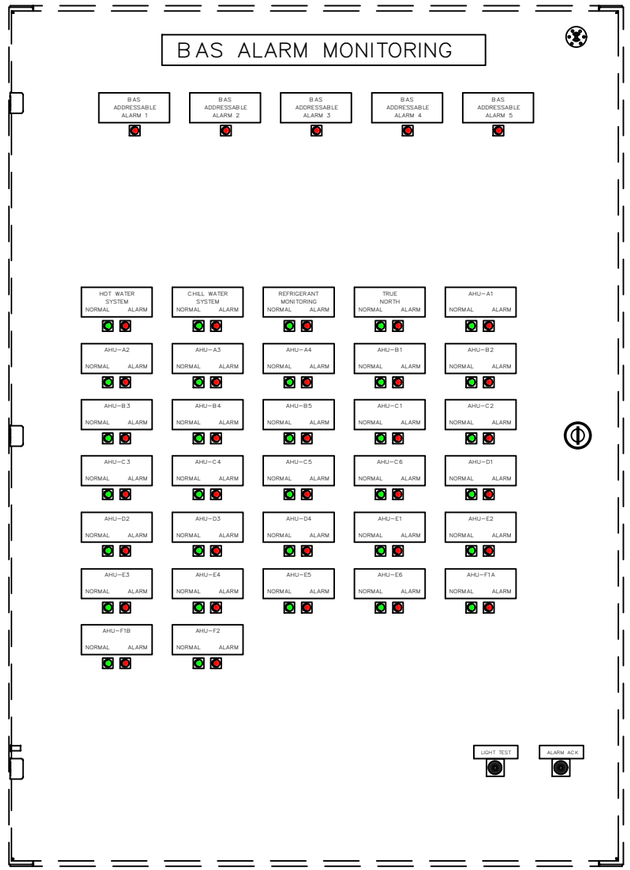
J–2408004

SYSTEM CONTROL PANEL 01 LAYOUT

NETWORK CABLES ENTER IN THIS AREA

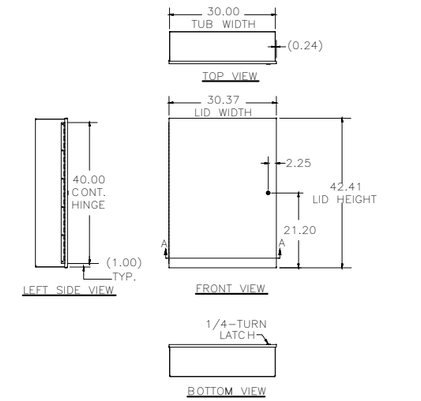
HIGH VOLTAGE FEEDS ENTER IN THIS AREA

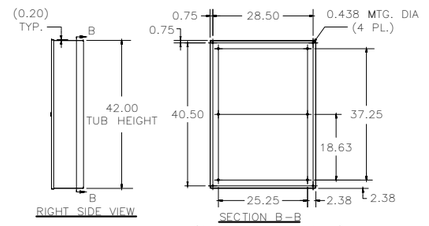


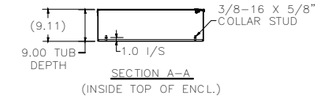


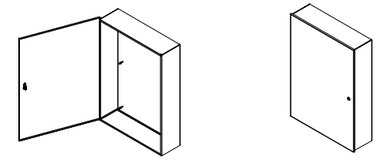
LOW VOLTAGE FEEDS ENTER IN THIS AREA

30" (W) x 42" (H) ENCLOSURE DIMENSIONS

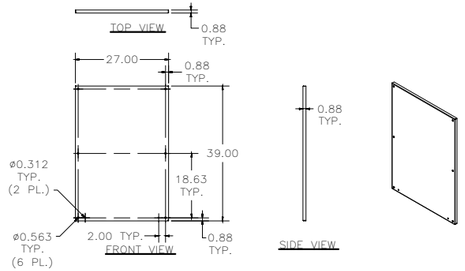








PANEL DIMENSIONS



BILL OF MATERIALS

TAG	ITEM NAME	VENDOR P/N	DESCRIPTION	QTY	MANUF	LOC
C8X1	eBX-08	311602	eBX-08 enteliBUS Expander Backplane (8 slot)	1	Delta Controls	Panel
C8X2	eBX-08	311602	eBX-08 enteliBUS Expander Backplane (8 slot)	1	Delta Controls	Panel
CBL1	eBB-CABLE	272600	eBB-CABLE Cable Kit for enteliBUS (CAN)	1	Delta Controls	Panel
CEB1	eBMGR-2	301604	eBMGR-2 enteliBUS System Controller w/Ethernet (CPU/Comm)	1	Delta Controls	Panel
CMD10	eBM-D400R4	375610	eBM-D400R4 enteliBUS Module (4 BIs,4 Relay OPs)	10	Delta Controls	Panel
EBP1	42 x 30 Perf Plate	NP4230PP	Perf Backplate for 42"x30" Enc	1	Hubbell W.	Panel
ENC1	42 x 30 Enc	N1C304209LP	NEMA 1 42"x30"x8.62" Enc	1	Hubbell W.	Panel
ETS1	DVS-005I00	507500	DVS-005I00 Unmanaged Industrial 5-Port Ethernet Switch	1	Delta Electronics	Panel
PLK1	Keyed Lock	N1C14TKL	Cylinder Lock Kit	1	Hubbell W.	Panel
PNL1	PNL-Anc	PNL-Anc	TCS Panel Build - Annunciator Style	1	TCS	Panel
PR32	RIBRL1C	403319	RIBRL1C DIN Mount Relay 10 Amp SPDT with 10-30 Vac/dc Coil	32	Functional Devices	Panel
TRM1	eBB-TERM	272601	eBB-TERM Network Terminator for enteliBUS (CAN)	1	Delta Controls	Panel

ANNUNCIATOR PANEL SYSTEM 01 CONTROL PANEL – DIMENSIONS & BOM

Temperature Control Services
13920 WENDESSA DRIVE
FISHERS, INDIANA 46038
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UPDATES	
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CONTRACT WITH: MSD Washington Township
DATE: 8/16/2024 CHK. BY:____ DRAWN BY: BSS

CONTRACT NO:

SHEET
OSC-17
JOB NUMBER:
J-2408004

CONSOLIDATED BILL OF MATERIAL

ITEM NAME	VENDOR P/N	DESCRIPTION	QTY	MANUF	LOC	RECOMMENDED SPARES
BA/10K-3-RPP-5'	400411	BA/10K-3-RPP-5' Remote Temp Probe, 5' Lead, Plenum Rated Cable	1	BAPI	Field	1
CW Valve	See Schedule	See Valve Sch for Details	1	Belimo	Field	
eZNS-T100-ND-SM-000-WWG	335353	eZNS-T100-ND-SM-000-WWG enteliZONE Network Sensor (No Display, Temp, Surface)	2	Delta Controls	Field	1
RIB21CDC	403264	RIB21CDC Enclosed Relay 10 Amp SPDT, Class 2 Dry Contact Input, 120-277 Vac Power Input	1	Functional Devices	Field	1
RIB2401SBC	403273	RIB2401SBC Enclosed Relay 20 Amp SPDT + Override with 24 Vac/dc/120 Vac Coil	4	Functional Devices	Field	1
RIBXKTA	403501	RIBXKTA Solid Core, Adjustable Current Switch, 0.50-150 Amp, Terminal	4	Functional Devices	Field	1
ETD9STS	499713	ETD9STS TSTAT-SPDT HEAT OR COOL/5090F/TERMINALS	1	Kele	Field	1
Spd Ctrl (EBO)	N/A	Speed Controller (by others)	1	Others	Field	
eWEnt	345713	eWEnt enteliWEB Enterprise Software (Up to 5000 I/O)	1	Delta Controls	Office	
eWEnt-UnLtd	345862	eWEnt-UnLtd enteliWEB Unlimited I/O Point Add-on Software (Unlimited I/O to eWEnt versions)	1	Delta Controls	Office	
eWEnt-EV	345801	eWEnt-EV enteliVIZ Add-on Software (Add for eWEnt version)	1	Delta Controls	Office	
eWEnt-VLT	346025	eWEnt-VLT enteliVAULT Add-on Software (Add for eWEnt version)	1	Delta Controls	Office	
eWEnt-VLTUnLtd	346028	eWEnt-VLTUnLtd enteliVAULT Add-on Software (Add for eWEnt-UnLtd version)	1	Delta Controls	Office	
eWEnt-Sub	345723	eWEnt-Sub Software Subscription (Up to 1 year after expiry)	1	Delta Controls	Office	
eWEnt-SubUnLtd	345864	eWEnt-SubUnLtd Software Subscription (Up to 1 year after expiry)	1	Delta Controls	Office	
eWEnt-VLT-Sub	346033	eWEnt-VLT-Sub eWEnt-VLT enteliVAULT License Subscription	1	Delta Controls	Office	
VLTUnLtd-Sub	346036	VLTUnLtd-Sub eWEnt-VLTUnLtd enteliVAULT License Subscription	1	Delta Controls	Office	
Panel Buzzer	ECX2070-24	Buzzer, 25mA, 24Vac/dc, 80dB	1	Automation Direct	Panel	
eBB-CABLE	272600	eBB-CABLE Cable Kit for enteliBUS (CAN)	1	Delta Controls	Panel	
eBB-TERM	272601	eBB-TERM Network Terminator for enteliBUS (CAN)	1	Delta Controls	Panel	
eBM-D400R4	375610	eBM-D400R4 enteliBUS Module (4 BIs,4 Relay OPs)	10	Delta Controls	Panel	1
eBMGR-2	301604	eBMGR-2 enteliBUS System Controller w/Ethernet (CPU/Comm)	1	Delta Controls	Panel	1
eBX-04	311601	eBX-04 enteliBUS Expander Backplane (4 slot)	1	Delta Controls	Panel	1
eBX-08	311602	eBX-08 enteliBUS Expander Backplane (8 slot)	1	Delta Controls	Panel	1
eZFCP-424R4-24	323426	eZFCP-424R4-24 enteliZONE Fan Coil Controller (24VAC Prog, 4UI, 2AO, 4TRIAC, 3 Fan and 1 aux relay)	2	Delta Controls	Panel	1
DVS-005I00	507500	DVS-005I00 Unmanaged Industrial 5-Port Ethernet Switch	1	Delta Electronics	Panel	1
RIBRL1C	403319	RIBRL1C DIN Mount Relay 10 Amp SPDT with 10-30 Vac/dc Coil	32	Functional Devices	Panel	2
TR75VA005	403599	TR75VA005 Transformer 75VA, 480/240/208/120 to 24 Vac, Circuit Breaker, Foot & Single Threaded Hub	2	Functional Devices	Panel	1
42 x 30 Enc	N1C304209LP	NEMA 1 42"x30"x8.62" Enc	1	Hubbell W.	Panel	
42 x 30 Perf Plate	NP4230PP	Perf Backplate for 42"x30" Enc	1	Hubbell W.	Panel	
Keyed Lock	N1C14TKL	Cylinder Lock Kit	1	Hubbell W.	Panel	
ABW111	499915	ABW111 PUSH BUTTON 1NO 1NC MOMENTARY FLUSH -3 COLORS	2	Kele	Panel	
AP8M122-G	499694	AP8M122-G PILOT LIGHT MINIATURE 8MM FLAT LENS ACDC 24V GREE LV, PDT	32	Kele	Panel	4
AP8M122-R	499695	AP8M122-R PILOT LIGHT MINIATURE 8MM FLAT LENS AC/DC 24V RED	37	Kele	Panel	4
PNL-Anc	PNL-Anc	TCS Panel Build - Annunciator Style	1	TCS	Panel	
PNL-FCU	PNL-FCU	TCS Panel Build - FCU Terminal Dev Style	2	TCS	Panel	

Delta Controls

Temperature Control Services
108 N MAIN
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CONTRACT NO:

SHEET
SCH-01
JOB NUMBER:
J-2408004

LABEL LIST

Item:	TCS Label ID:	Vendor P/N:	Height (In.):	Width (In.):	Field Color:	Text Color:	Dbl-Side Tape?	Hole Size:	# of Holes:	Text Height (In.):	Text to Engrave Line 1:	Text to Engrave Line 2:	Text to Engrave Line 3:	Special Instructions:
1	LAB-22030	23ST	2	3	Blue	White	Yes	N/A	0	0.25	EF-G2 & G3	CONTROL	PANEL	
2	LAB-22030	23ST	2	3	Blue	White	Yes	N/A	0	0.25	FCU-D1	CONTROL	PANEL	
3	LAB-115160	1.510ST	1.5	16	Blue	White	Yes	N/A	0	0.75	BAS ALARM MONITORING			
4	LAB-11030	13ST	1	3	Blue	White	Yes	N/A	0	0.25	LIGHT TEST			
5	LAB-11030	13ST	1	3	Blue	White	Yes	N/A	0	0.25	ALARM ACK			
6	LAB-21540	1.54ST	1.5	4	Blue	White	Yes	N/A	0	0.2	BAS ADDRESSABLE	ALARM 1		
7	LAB-21540	1.54ST	1.5	4	Blue	White	Yes	N/A	0	0.2	BAS ADDRESSABLE	ALARM 2		
8	LAB-21540	1.54ST	1.5	4	Blue	White	Yes	N/A	0	0.2	BAS ADDRESSABLE	ALARM 3		
9	LAB-21540	1.54ST	1.5	4	Blue	White	Yes	N/A	0	0.2	BAS ADDRESSABLE	ALARM 4		
10	LAB-21540	1.54ST	1.5	4	Blue	White	Yes	N/A	0	0.2	BAS ADDRESSABLE	ALARM 5		
11	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	HOT WATER	SYSTEM	NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
12	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	CHILL WATER	SYSTEM	NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
13	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	REFRIGERANT	MONITORING	NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
14	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	TRUE	NORTH	NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
15	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-A1		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
16	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-A2		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
17	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-A3		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
18	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-A4		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
19	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-B1		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
20	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-B2		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
21	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-B3		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
22	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-B4		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
23	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-B5		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
24	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-C1		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
25	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-C2		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
26	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-C3		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
27	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-C4		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
28	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-C5		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
29	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-C6		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
30	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-D1		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
31	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-D2		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
32	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-D3		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
33	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-D4		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
34	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-E1		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
35	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-E2		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
36	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-E3		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
37	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-E4		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
38	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-E5		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
39	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-E6		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
40	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-F1A		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
41	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-F1B		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"
42	LAB-31535	1.53.5ST	1.5	3.5	Blue	White	Yes	N/A	0	0.2	AHU-F2		NORMAL ALARM	Left Justify "NORMAL" and right justify "ALARM"

VALVE SCHEDULE

	From Project Specifications							Valve Type and Actuator Specifications																Ordering Data				
																	2 WAY		3 WAY									
																	2VDC FAIL		2VDC FAIL									
Reference	Quantity	Valve Tag	Flow (GPM)	TargetPressure Drop (PSI)	Target Cv Rating	Pipe Size (in.)	Required Close-off Pressure (PSI)	Valve Size (in.)	Valve Cv	Actual Pressure drop (PSI)	Ball	Globe	Butterfly	24 VAC	120 VAC	On-Off	Tri-State	Modulating	Spring Rtn.	Switches	OPEN	CLOSED	OPEN	CLOSED	B TO AB OPEN	A TO AB OPEN	B TO AB OPEN	A TO AB OPEN	Valve #	Actuator #	Clip Position	Data Sheet	Notes
1	1	FCU D-1 CWV	8.00	5.00	3.58	1.00	200.0	0.75	4.70	2.90	X			X				X	X			X							B217B	TFRB24-SR	--	4409a	

Delta Controls
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8/29/2024	ADDENDUM #2
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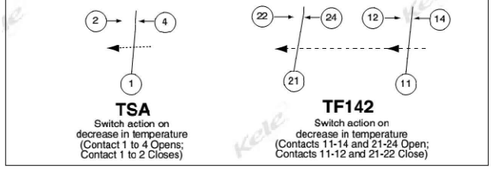
ENGINEER: Temperature Control Services, LLC
CONTRACT WITH: MSD Washington Township
DATE: 8/16/2024 CHK. BY: ____ DRAWN BY: BSS

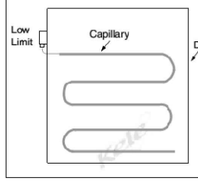
CONTRACT NO:

SHEET
SCH-02
JOB NUMBER:
J-2408004

WIRING

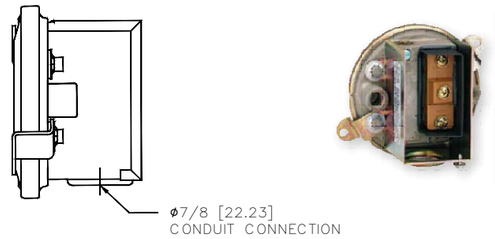


INSTALLATION

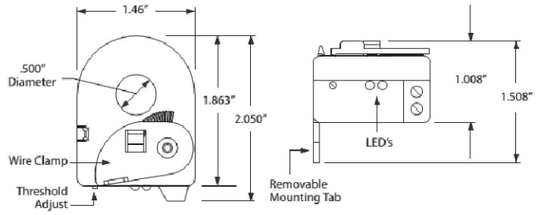


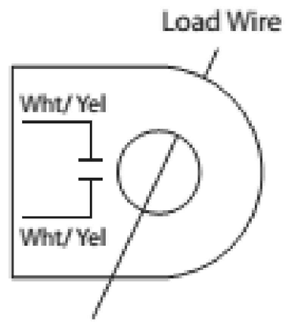
Install capillary element in a horizontal serpentine pattern across the duct on the downstream side of the coil so it is exposed to areas where low temperatures will occur. Do not kink or apply excessive force to the capillary element.

1000 TEMPERATURE, LOW LIMIT

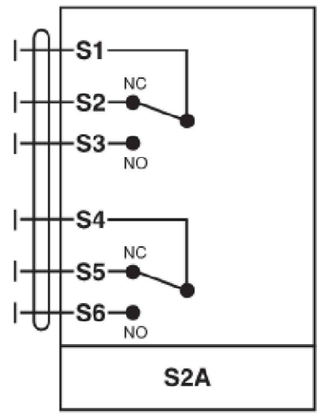


1200 PRESSURE, DUCT HIGH LIMIT

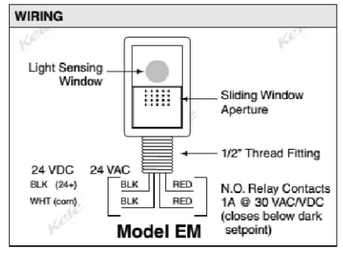




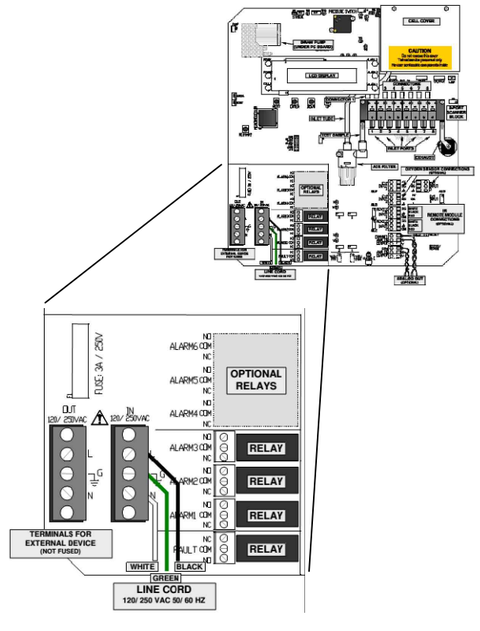
1400 CURRENT SWITCH, RIBXK SERIES



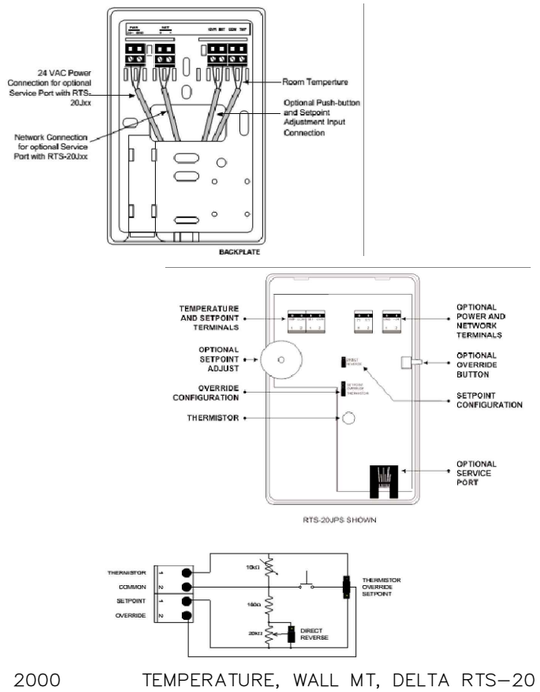
1801 AUXILIARY END SWITCH, BELIMO S2A



1900 PHOTOCELL, OUTDOOR, EM SERIES



1901 REFRIGERANT MONITOR, HALOGUARD



2000 TEMPERATURE, WALL MT, DELTA RTS-20

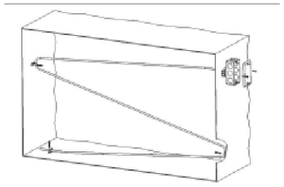


Fig 8: Flexible Sensor Horizontal Mount (Best for Vertical Stratification)

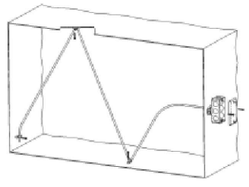


Fig 9: Flexible Sensor Vertical Mount (Best for Horizontal Stratification)

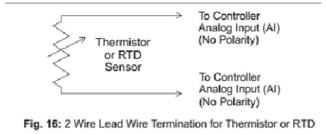


Fig. 16: 2 Wire Lead Wire Termination for Thermistor or RTD

2001 TEMPERATURE, DUCT AVERAGING

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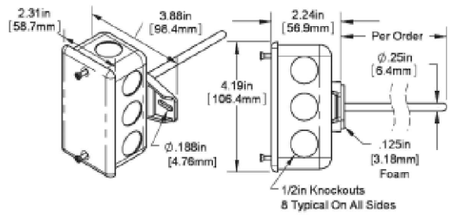


Fig 2: Duct Unit with J-Box (Standard)

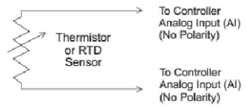


Fig. 16: 2 Wire Lead Wire Termination for Thermistor or RTD

2002 TEMPERATURE, DUCT PROBE

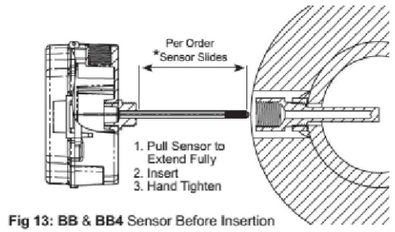


Fig 13: BB & BB4 Sensor Before Insertion

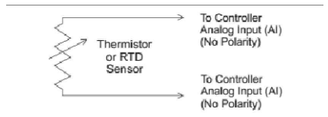


Fig. 16: 2 Wire Lead Wire Termination for Thermistor or RTD

2003 TEMPERATURE, IMMERSION

Table 3: Temperature Sensor Lead Wire Colors			
Thermistors		**Platinum RTDs - 2 Wire**	
1.8KΩ	Orange/Red	100Ω	Red/Red
2.2KΩ	Brown/White	1KΩ	Orange/Orange
3KΩ	Yellow/Black	**Nickel RTD**	
3.25KΩ	Brown/Green	1KΩ	Green/Green
3.3KΩ	Yellow/Brown	**Silicon RTD**	
10K-2Ω	Yellow/Yellow	2KΩ	Brown/Blue
10K-3Ω	Yellow/Red	**Platinum RTDs - 3 Wire**	
10K-3(11K)Ω	Yellow/Blue	100Ω	Red/Red/Black*
20KΩ	White/White	1KΩ	Orange/Orange/Black*
47KΩ	Yellow/Orange	*In the 3-Wire RTD sensors listed above, the two wires of similar color are connected together.	
50KΩ	White/Blue		
100KΩ	Yellow/White		

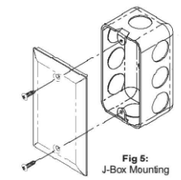


Fig 5:
J-Box Mounting

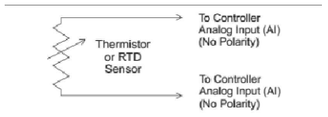


Fig. 16: 2 Wire Lead Wire Termination for Thermistor or RTD

2004 TEMPERATURE, WALL PLATE

Table 1: Humidity Transmitter with 0 to 10VDC Output		
Wire Color	**Purpose**	**Note**
Green	Humidity Output	0 to 10VDC, To Analog Input of Controller
Black	GND (Common)	Ground for Power and Humidity Output
Red	Power	15 to 35VDC or 15 to 27VAC

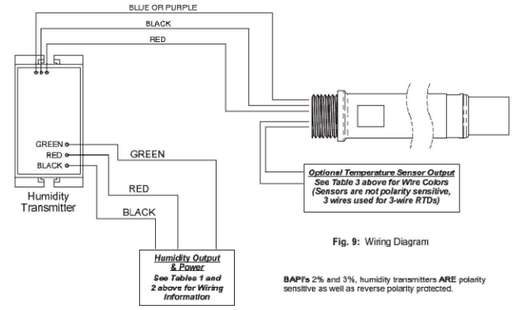


Fig. 9: Wiring Diagram

BAPI's 2% and 3%, humidity transmitters **ARE** polarity sensitive as well as reverse polarity protected.

2100 HUMIDITY / TEMPERATURE, OUTSIDE AIR

Table 1: Humidity Transmitter with 0 to 10VDC Output		
Wire Color	**Purpose**	**Note**
Green	Humidity Output	0 to 10VDC, To Analog Input of Controller
Black	GND (Common)	Ground for Power and Humidity Output
Red	Power	15 to 35VDC or 15 to 27VAC

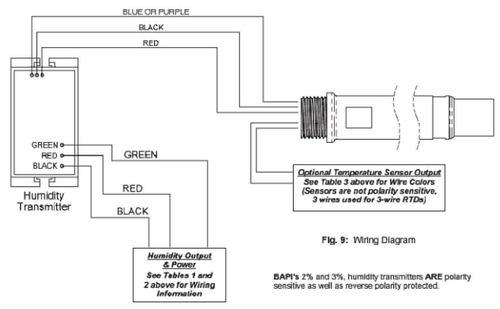


Fig. 9: Wiring Diagram

BAPI's 2% and 3%, humidity transmitters **ARE** polarity sensitive as well as reverse polarity protected.

2101 HUMIDITY / TEMPERATURE, DUCT

Table 1: EZ Pressure Sensor Termination	
Output Signal	**Power Terminal**
4 to 20 mA	7 to 40 VDC
0 to 5 VDC	7 to 40 VDC or 18 to 28 VAC
0 to 10 VDC	13 to 40 VDC or 18 to 28 VAC

Gnd/4-20mA Terminal	Voltage Output Terminal
4 to 20 mA Signal To Controller Analog Input	Not Used
To Controller Ground	0 to 5 VDC Signal To Controller Analog Input
To Controller Ground	0 to 10 VDC Signal To Controller Analog Inpu

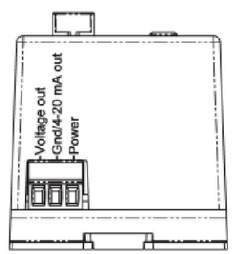
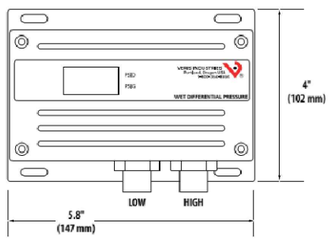
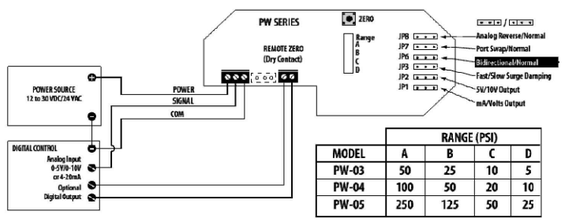


Fig. 7: Wiring terminations

2200 PRESSURE, ZPS DP STD RANGE
2201 PRESSURE, ZPS DP LOW RANGE





	RANGE (PSI)			
MODEL	**A**	**B**	**C**	**D**
PW-03	50	25	10	5
PW-04	100	50	20	10
PW-05	250	125	50	25

2202 PRESSURE, VERIS WET DP

Electrical connections to the Series 605 Transmitter are made to the two-screw terminal strip on the rear of the case. Polarity is indicated by + and – signs stamped on side. The schematic diagram of the Series 605 transmitter is illustrated in Figure B.

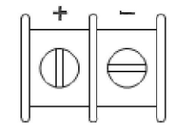


Figure A

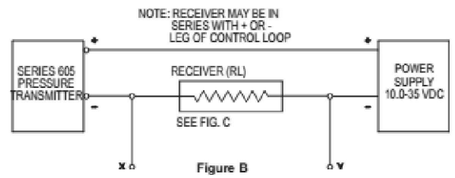


Figure B

2203 PRESSURE, DUCT DP, DWYER 605 SERIES

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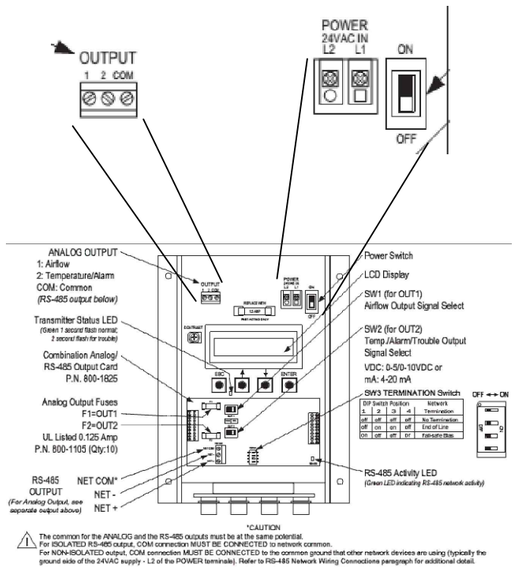

2300 FLOW, AFMS, EBTRON GOLD

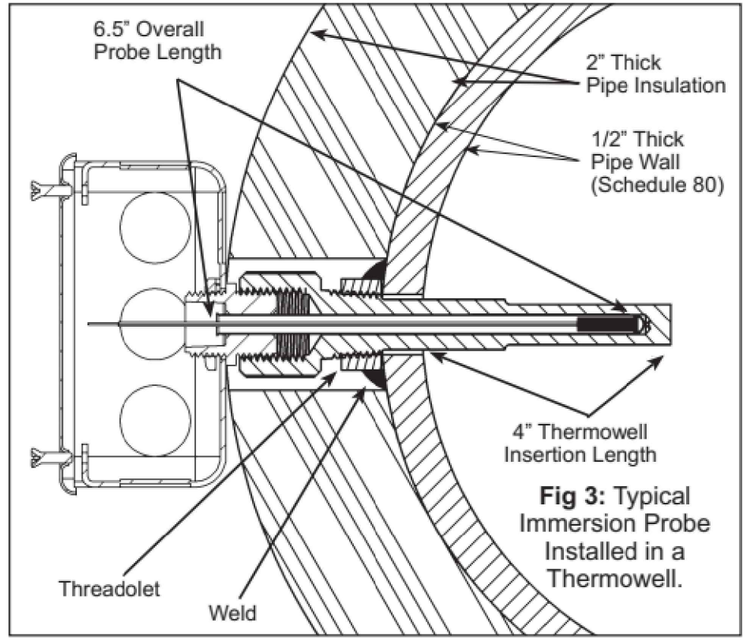

Fig 3: Typical Immersion Probe Installed in a Thermowell.

907 BAPI IMMERSION TEMPERATURE THERMOWELL

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CONTRACT NO:

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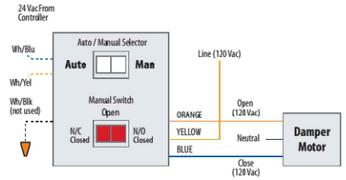
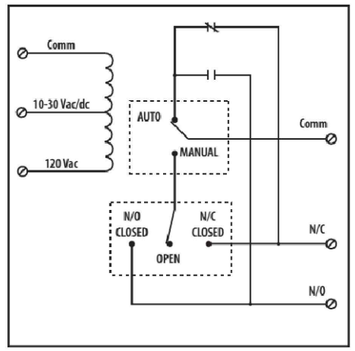
JOB NUMBER:
J-2408004

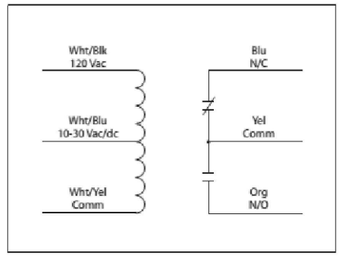




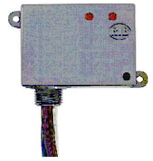
3000 RELAY, RIB PANEL–MOUNT MU1SC

Coil Voltage Input:
10-30 Vac/dc ; 120 Vac ; 50-60 Hz (RIBU1C)
10-30 Vac/dc ; 208-277 Vac ; 50-60 Hz (RIBH1C)
Drop Out = 2.1 Vac / 2.8 Vdc
Pull In = 9 Vac / 10 Vdc

Contact Ratings:
10 Amp Resistive @ 277 Vac
10 Amp Resistive @ 28 Vdc
480 VA Pilot Duty @ 240-277 Vac
480 VA Ballast @ 277 Vac
Not rated for Electronic Ballast
600 Watt Tungsten @ 120 Vac (N/O)
240 Watt Tungsten @ 120 Vac (N/C)
1/3 HP @ 120-240 Vac (N/O)
1/6 HP @ 120-240 Vac (N/C)
1/4 HP @ 277 Vac (N/O)
1/8 HP @ 277 Vac (N/C)

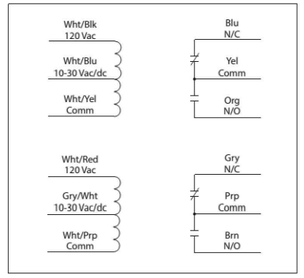


3001 RELAY, RIB FIELD–MOUNT RIBU1C

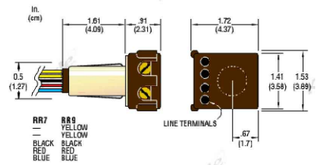


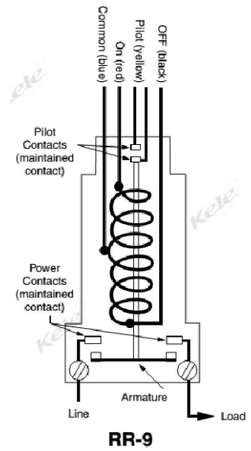
Coil Voltage Input:
10-30 Vac/dc ; 120 Vac ; 50-60 Hz (RIBU1C)
10-30 Vac/dc ; 208-277 Vac ; 50-60 Hz (RIBH1C)
Drop Out = 2.1 Vac / 2.8 Vdc
Pull In = 9 Vac / 10 Vdc

Contact Ratings:
10 Amp Resistive @ 277 Vac
10 Amp Resistive @ 28 Vdc
480 VA Pilot Duty @ 240-277 Vac
480 VA Ballast @ 277 Vac
Not rated for Electronic Ballast
600 Watt Tungsten @ 120 Vac (N/O)
240 Watt Tungsten @ 120 Vac (N/C)
1/3 HP @ 120-240 Vac (N/O)
1/6 HP @ 120-240 Vac (N/C)
1/4 HP @ 277 Vac (N/O)
1/8 HP @ 277 Vac (N/C)



3002 RELAY, RIB FIELD–MOUNT RIBU2C

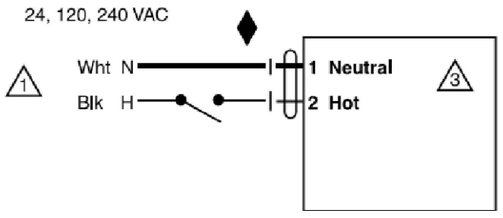




RR-9

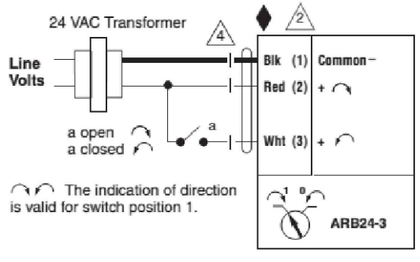
3100 RELAY, LIGHTING, LATCHING RR–9

1. Provide overload protection and disconnect as required.
2. ***CAUTION** Equipment Damage!*
   Actuators may be connected in parallel.
   Power consumption and input impedance must be observed.
3. No ground connection is required.



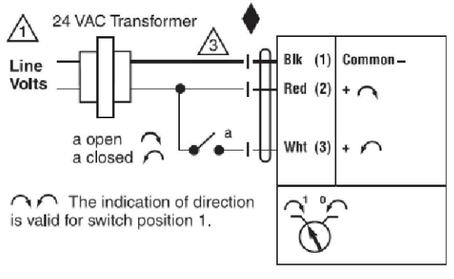
3200 BELIMO NFBUP–R ACT (ON–OFF)

2. ***CAUTION** Equipment damage!*
   Actuators may be connected in parallel.
   Power consumption and input impedance must be observed.
   For end position indication, interlock control, etc.,
4. Actuators may also be powered by 24 VDC.



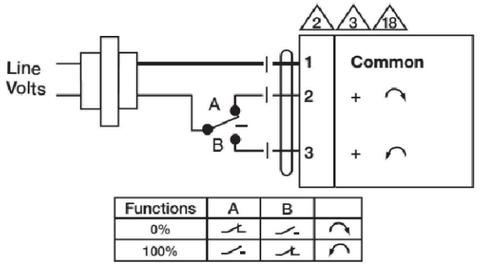
3201 BELIMO ARX24–3 ACT (ON–OFF, TS)

1. Provide overload protection and disconnect as required.
3. Actuators may also be powered by 24 VDC.



3202 BELIMO GRX24–3 ACT (ON–OFF, TS)

2. Actuators may be connected in parallel. Power consumption and input impedance must be observed.
3. Actuators may also be powered by 24 VDC.
18. Actuators with plenum rated cable do not have numbers on wires; use color codes instead.



Functions	A	B	
0%			
100%			

3203 BELIMO CQB24–3 ACT (TS)

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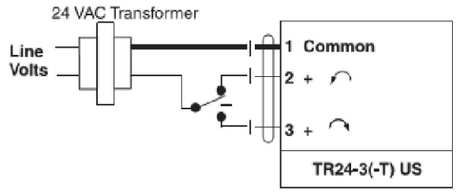
NOTE: TR24-3(-T) US cannot be wired in parallel with themselves or any other actuator.



3204 BELIMO TR24–3 ACT (ON–OFF, TS)

◆ Meets cULus requirements without the need of an electrical ground connection.

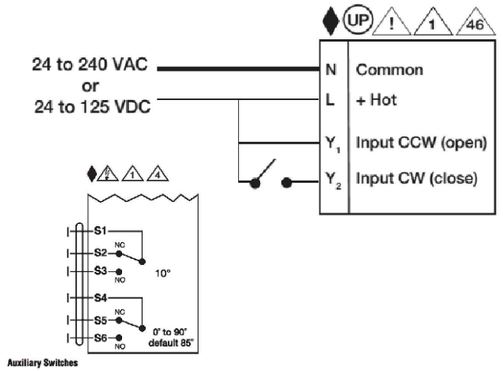
UP Universal Power Supply (UP) models can be supplied with 24 VAC up to 240 VAC, or 24 VDC up to 125 VDC.

⚠ Disconnect power.

1 Provide overload protection and disconnect as required.

4 Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.

46 Actuators may be controlled in parallel. Current draw and input impedance must be observed.

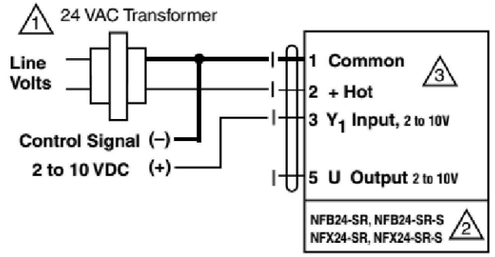


3205 BELIMO PRBUP–3–T ACT (ON–ON, TS)

1 Provide overload protection and disconnect as required.

2 ***CAUTION** Equipment Damage!*
Actuators may be connected in parallel.
Power consumption and input impedance must be observed.

3 Actuator may also be powered by 24 VDC.

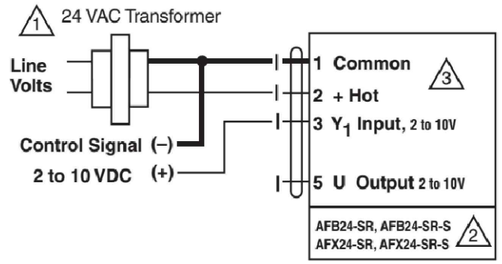


4200 BELIMO NFB24–SR ACT (2–10 VDC)

1 Provide overload protection and disconnect as required.

2 ***CAUTION** Equipment Damage!*
Actuators may be connected in parallel.
Power consumption and input impedance must be observed.

3 Actuator may also be powered by 24 VDC.

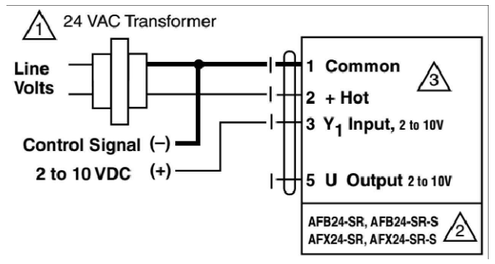


4201 BELIMO AFRB24–SR ACT (2–10 VDC)

1 Provide overload protection and disconnect as required.

2 ***CAUTION** Equipment Damage!*
Actuators may be connected in parallel.
Power consumption and input impedance must be observed.

3 Actuator may also be powered by 24 VDC.

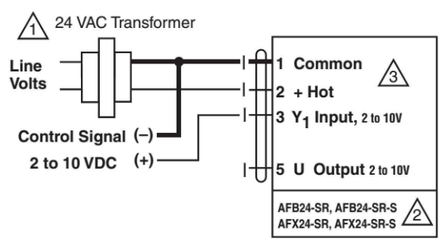


4202 BELIMO AFB24–SR ACT (2–10 VDC)

1 Provide overload protection and disconnect as required.

2 ***CAUTION** Equipment Damage!*
Actuators may be connected in parallel.
Power consumption and input impedance must be observed.

3 Actuator may also be powered by 24 VDC.



4203 BELIMO AFRB24–SR ACT (2–10 VDC)
BELIMO AFRX24–SR ACT (2–10 VDC)

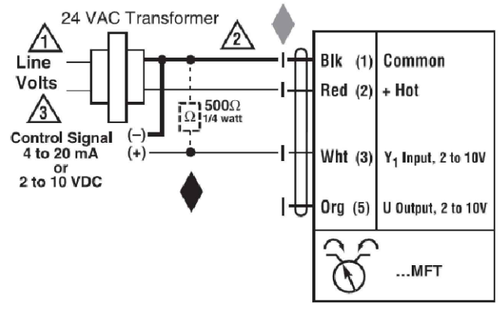
1 Provide overload protection and disconnect as required.

2 ***CAUTION** Equipment Damage!*
Actuators may be connected in parallel.
Power consumption and input impedance must be observed.

3 Actuator may also be powered by 24 VDC.

◆ Meets UL requirements without the need of an electrical ground connection.

◆ The ZG-R01 500 Ω resistor may be used.



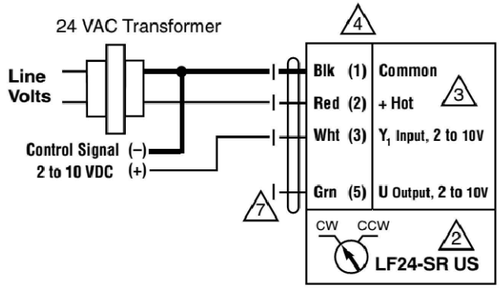
4204 BELIMO GKRX24–MFT ACT (2–10 VDC)

2 ***CAUTION** Equipment Damage!*
Actuators may be connected in parallel.
Power consumption and input impedance must be observed.

3 Actuator may also be powered by 24 VDC.

4 Actuators with plenum rated cable do not have numbers on wires; use color codes instead.

7 The LF24-SR-S US wire 5 is white.



4205 BELIMO LF24–SR ACT (2–10 VDC)

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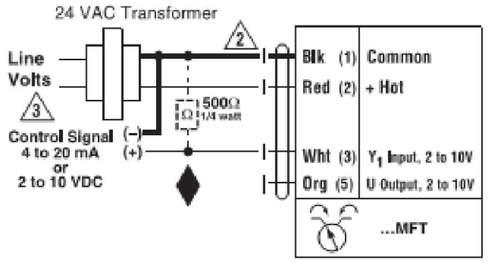
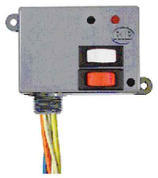
J–2408004

2 ***CAUTION** Equipment damage!*
Actuators may be connected in parallel.
Power consumption and input impedance must be observed.

3 Actuators may also be powered by 24 VDC.

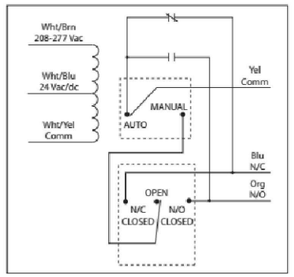


4206 BELIMO ARB24–MFT ACT (2–10 VDC)



Coil Voltage Input:
24 Vac/dc ; 120 Vac ; 50-60 Hz (RIB2401SBC)
24 Vac/dc ; 208-277 Vac ; 50-60 Hz (RIB2402SBC)
Drop Out = 2.1 Vac / 3.8 Vdc
Pull In = 18 Vac / 22 Vdc

Contact Ratings:
20 Amp Resistive @ 277 Vac
20 Amp Ballast @ 277 Vac (N/O)
10 Amp Ballast @ 277 Vac (N/C)
Not rated for Electronic Ballast
10 Amp Tungsten @ 120 Vac (N/O)
770 VA Pilot Duty @ 120 Vac
1,110 VA Pilot Duty @ 277 Vac
2 HP @ 277 Vac
1 HP @ 120 Vac



3104 RELAY, RIB FIELD–MOUNT RIB2401SBC

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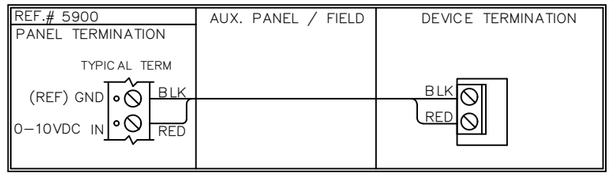
UPDATES	
DATE	REMARKS
8/22/2024	ADDENDUM #1
	ISSUED FOR CONST
	AS–BUILT

REVISIONS	
DATE	REMARKS

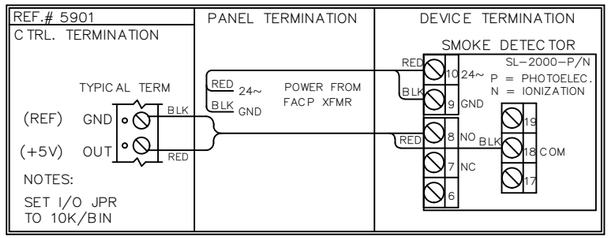
JOB TITLE: Operation Service Center (OSC)
LOCATION: MSD Washington Township, Indianapolis, IN
ENGINEER: Temperature Control Services, LLC
CONTRACT WITH: MSD Washington Township
DATE: 8/16/2024 CHK. BY: ____ DRAWN BY: BSS

CONTRACT NO:

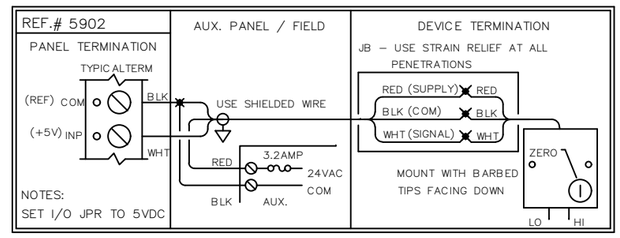
SHEET
INST–06
JOB NUMBER:
J–2408004



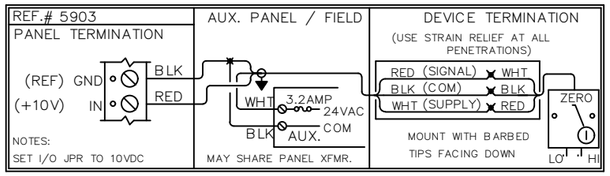
5900 DRY CONTACT INPUT (TO BAS)



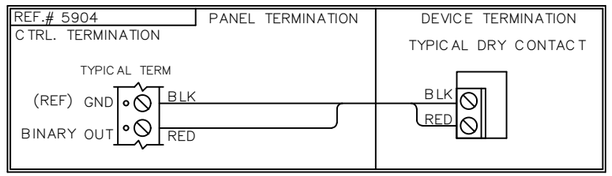
5901 SMOKE DETECTOR INPUT



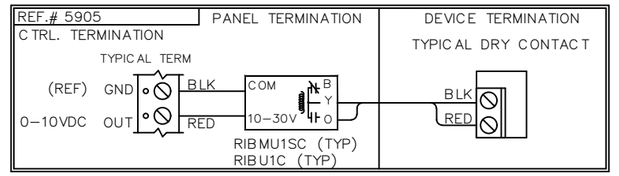
5902 0–5 VDC TRANSDUCER INPUT (TO BAS)



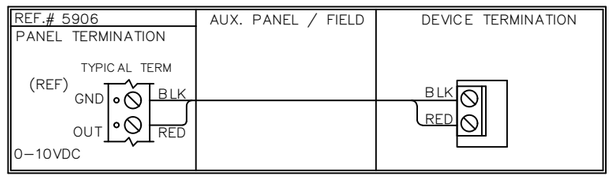
5903 0–10 VDC TRANSDUCER INPUT (TO BAS)



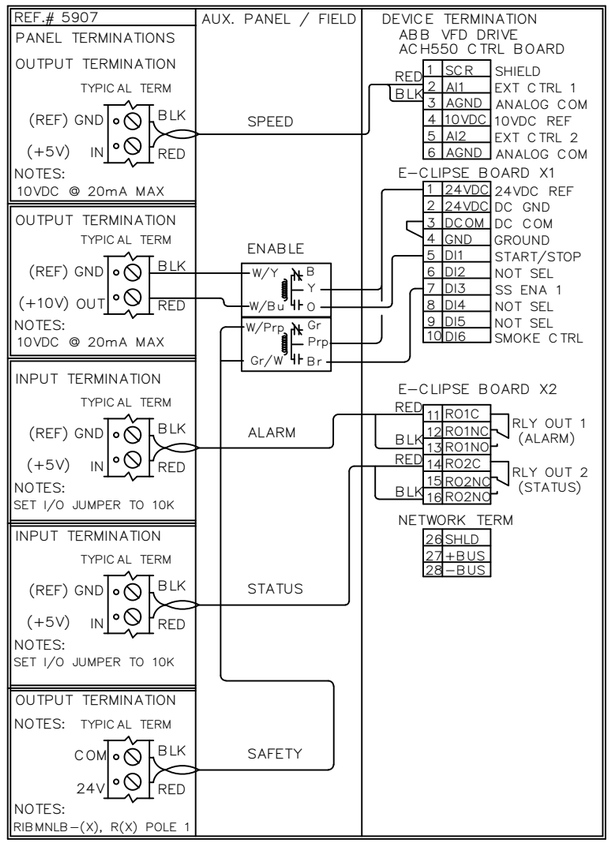
5904 PUMP / FAN ENABLE / DRY CONTACT (W/ BINARY OUT)



5905 PUMP / FAN ENABLE / DRY CONTACT (W/2–10VDC OUT)



5906 ANALOG OUTPUT (LEVEL / SPEED, ETC.)



5907 VFD CONNECTIONS, ABB ACH–550 DRIVE

NOTE:
– THE DETAILS ON THIS PAGE ARE PROVIDED AS GENERAL REPRESENTATIONS OF TYPICAL APPLICATIONS ONLY!
– WHENEVER POSSIBLE, ALWAYS FOLLOW THE ACTUAL MANUFACTURER'S INSTALLATION DETAILS.
– ACTUAL TERMINATIONS MAY DIFFER SUBSTANTIALLY FROM THESE DETAILS – USE WITH CAUTION!

INSTALLATION STANDARDS – TYPICAL THIRD–PARTY CONNECTIONS

Delta Controls
Temperature Control Services
108 N MAIN
ADVANCE, INDIANA 46102
PHONE: 765.481.8510
E-MAIL: NATHAN@TCSBAS.COM

UPDATES	
DATE	REMARKS
8/22/2024	ADDENDUM #1
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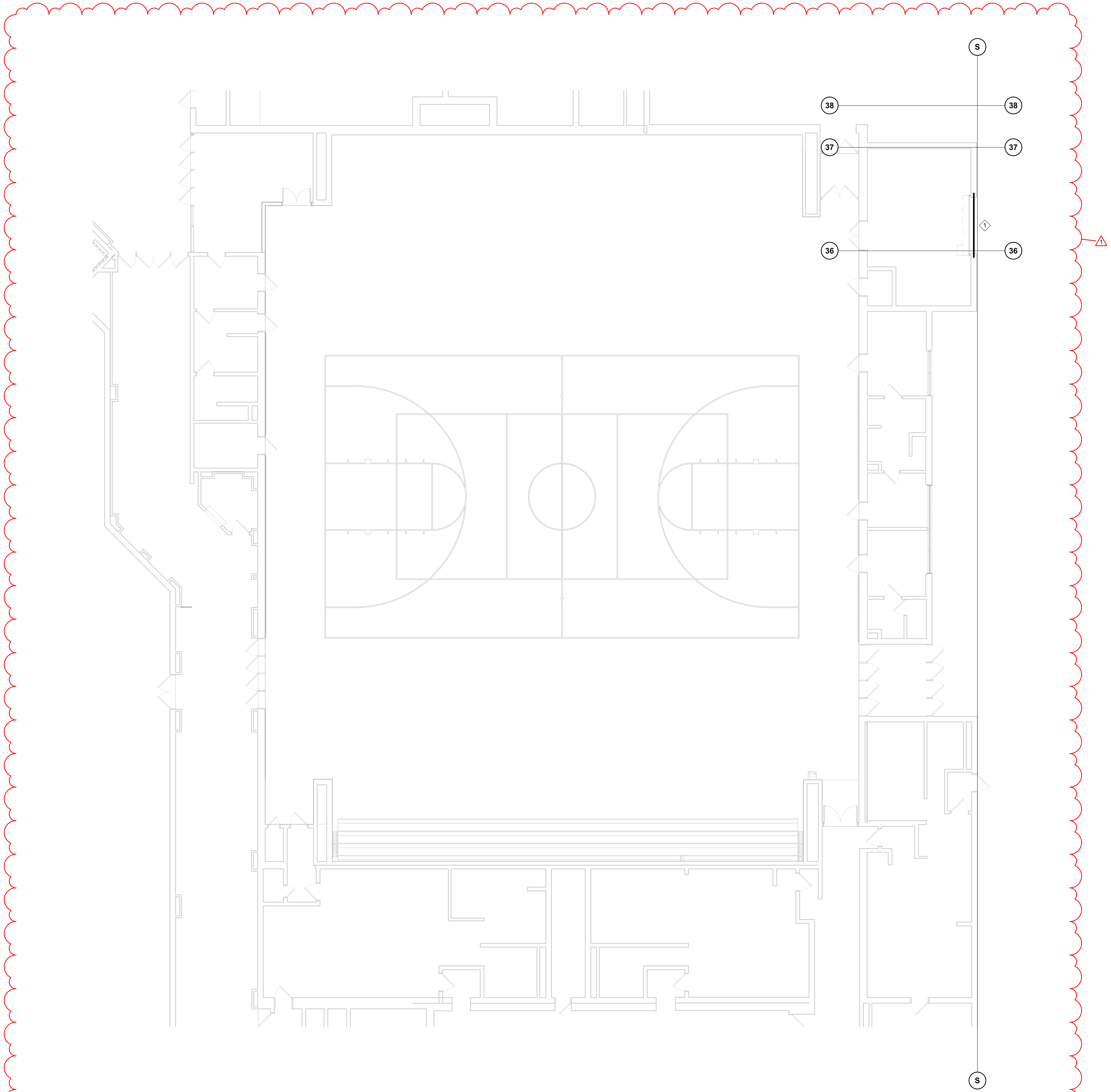
REVISIONS	
DATE	REMARKS

JOB TITLE: Operation Service Center (OSC)
LOCATION: MSD Washington Township, Indianapolis, IN
ENGINEER: Temperature Control Services, LLC
CONTRACT WITH: MSD Washington Township
DATE: 8/16/2024 CHK. BY:____ DRAWN BY: BSS

CONTRACT NO:

SHEET
INST–07
JOB NUMBER:
J–2408004



FIRST FLOOR PLAN - UNIT E

SCALE: 1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. ELEVATIONS ±, ARE FROM NOMINAL FIRST FLOOR ELEV +0'-0", SEE CIVIL DRAWINGS.
2. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.

First Floor Plan Key Note Schedule

#	NOTE
1	PROVIDE LINTEL AS PER PRESCRIPTIVE LINTEL SCHEDULE.

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

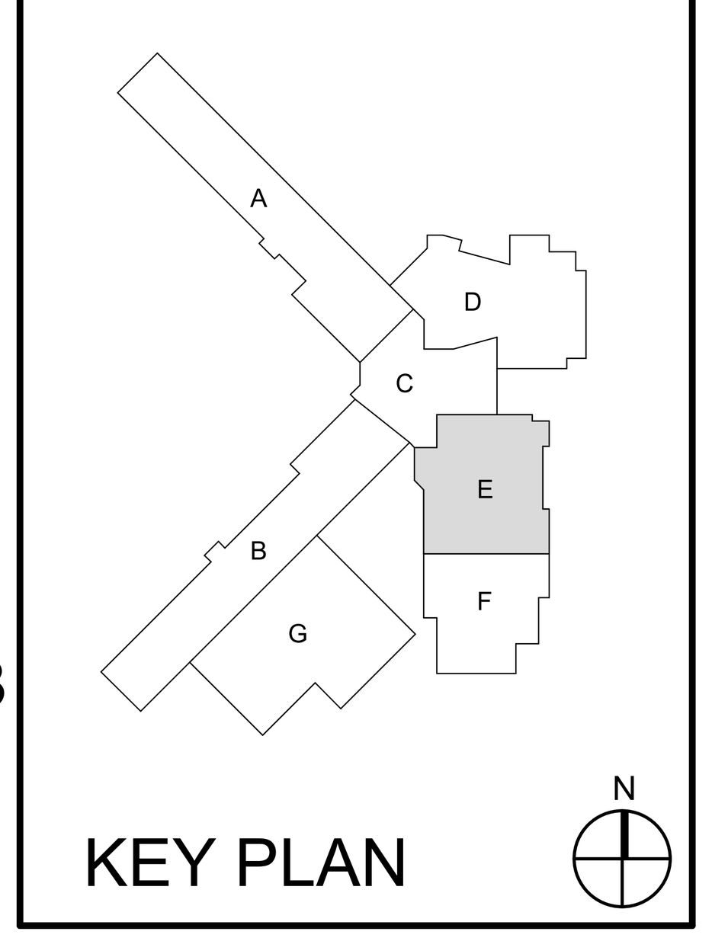
Project No. 2019-067.WSC
Project Date 07.31.2024
Produced CMM DJS

DYLAN SEESMAN REGISTERED No. PE11900810 STATE OF INDIANA PROFESSIONAL ENGINEER

07.31.2024

#	Revision	Date
	Addendum 2	08/29/2024

8401 Westfield Blvd
Indianapolis, IN 46240



KEY PLAN

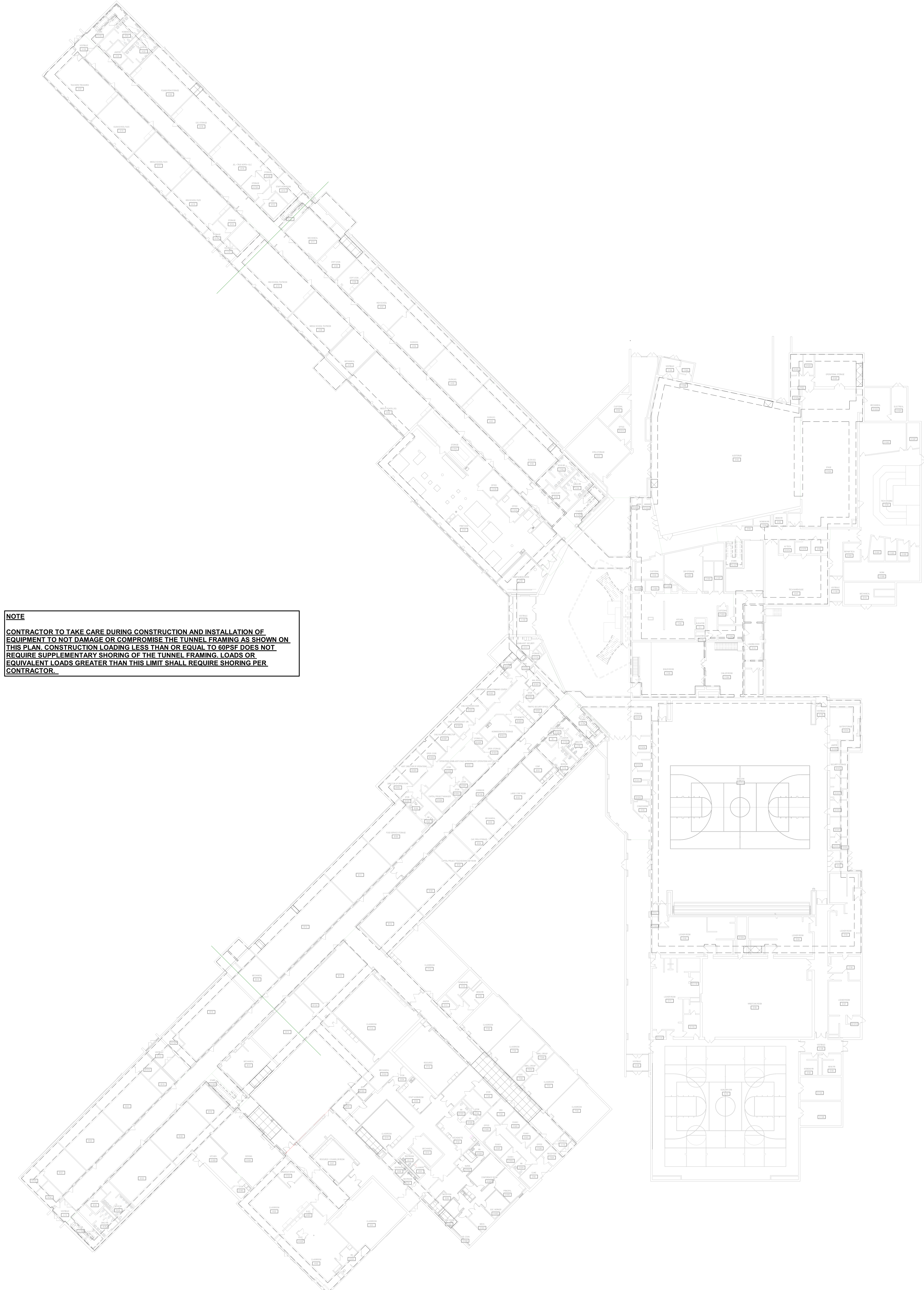
M.S.D. OF WASHINGTON TOWNSHIP

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

FIRST FLOOR PLAN - UNIT E

SF1E1



NOTE

CONTRACTOR TO TAKE CARE DURING CONSTRUCTION AND INSTALLATION OF EQUIPMENT TO NOT DAMAGE OR COMPROMISE THE TUNNEL FRAMING AS SHOWN ON THIS PLAN. CONSTRUCTION LOADING LESS THAN OR EQUAL TO 60PSF DOES NOT REQUIRE SUPPLEMENTARY SHORING OF THE TUNNEL FRAMING. LOADS OR EQUIVALENT LOADS GREATER THAN THIS LIMIT SHALL REQUIRE SHORING PER CONTRACTOR.

FOUNDATION PLAN NOTES:

1. ELEVATIONS ±, ARE FROM NOMINAL FIRST FLOOR ELEV +0'-0", SEE CIVIL DRAWINGS.
2. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.

OVERALL TUNNEL PLAN

SCALE: 1" = 30'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

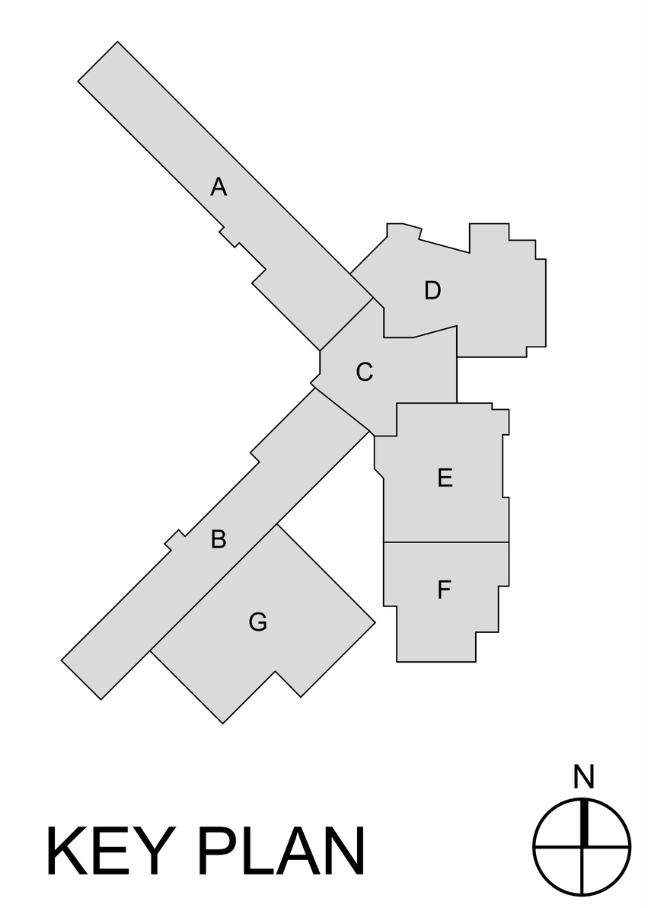
Project No. 2019-067.WSC
Project Date 07.31.2024
Produced NS DJS

DYLAN SEESMAN REGISTERED No. PE11900810 STATE OF INDIANA PROFESSIONAL ENGINEER

07.31.2024

#	Revision	Date
	Addendum 2	08/29/2024

8401 Westfield Blvd
Indianapolis, IN 46240



KEY PLAN

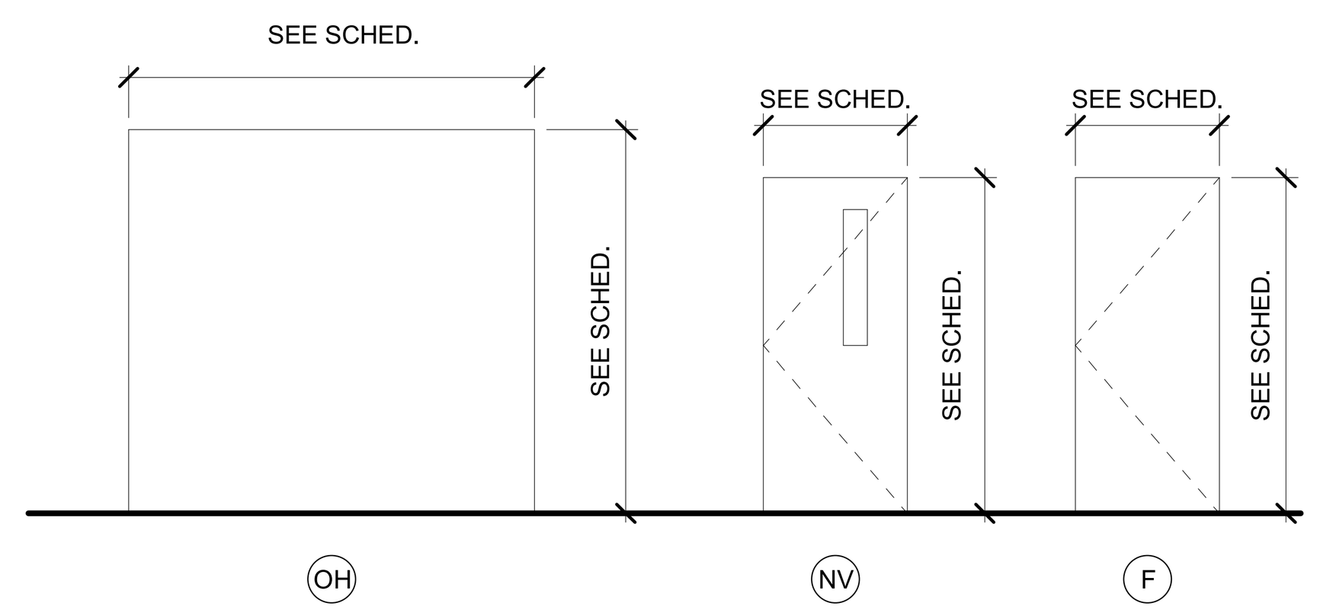
M.S.D. OF WASHINGTON TOWNSHIP

WASHINGTON TOWNSHIP SCHOOLS

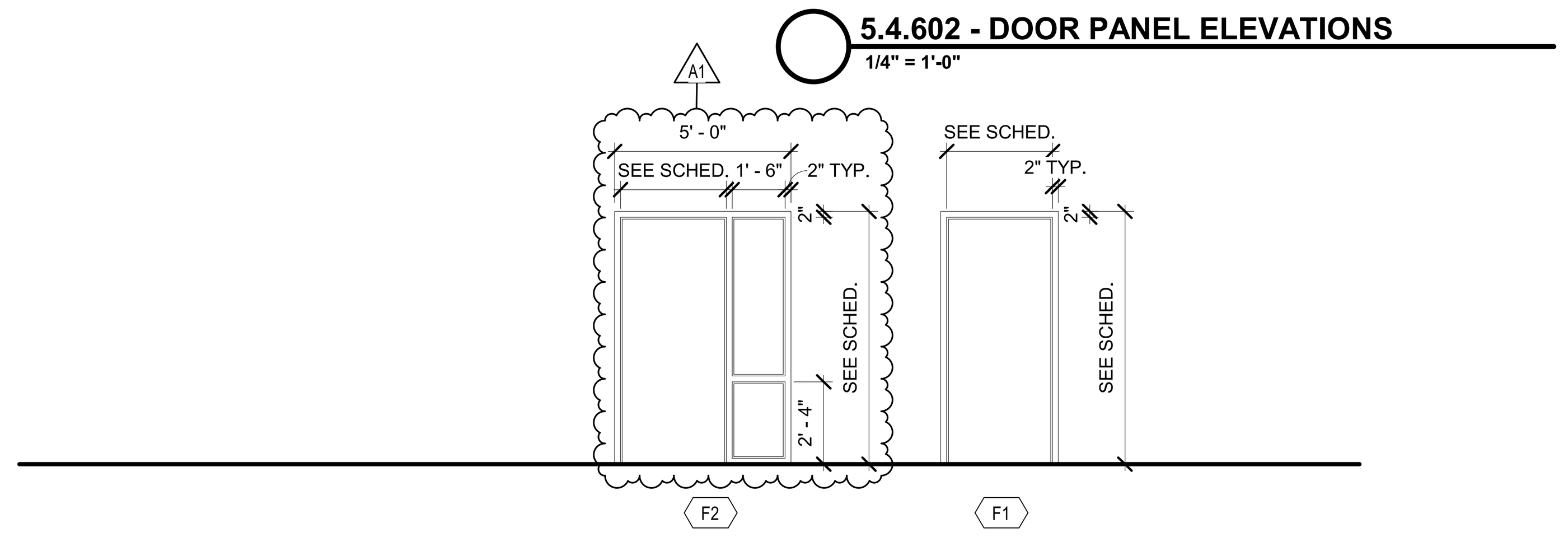
SERVICES CENTER RENOVATION - PHASE 6B

OVERALL TUNNEL PLAN

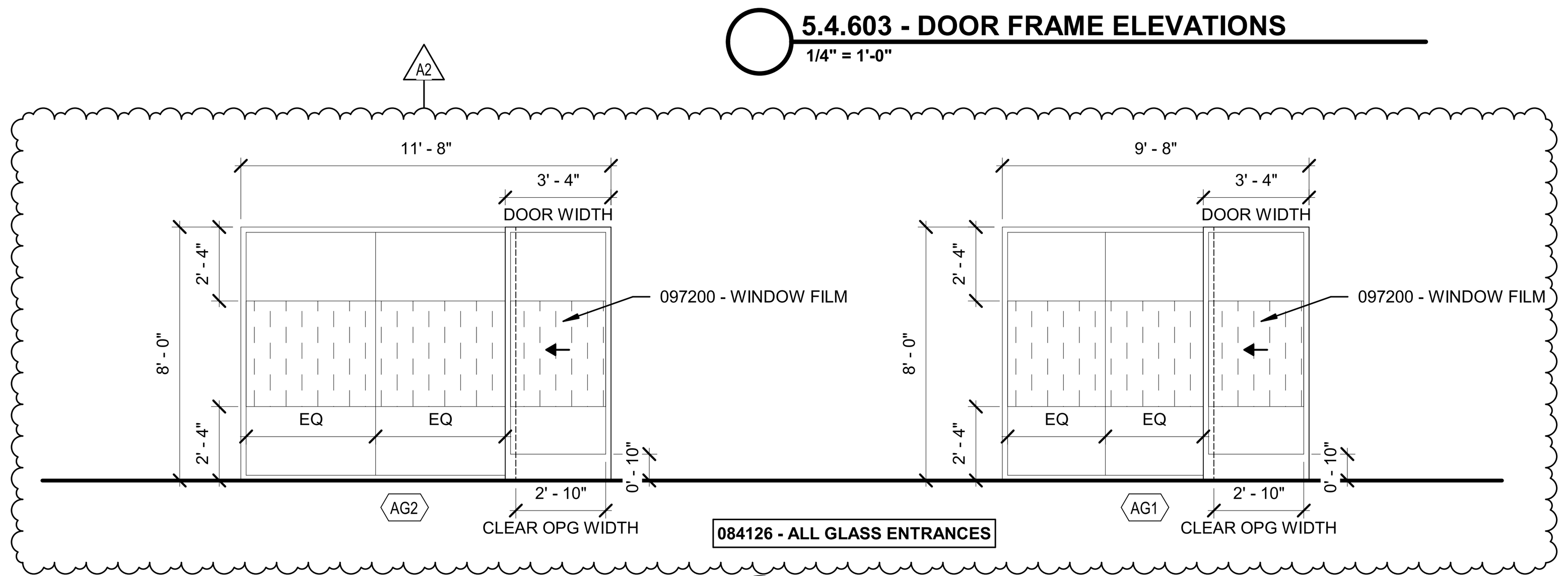
SF100



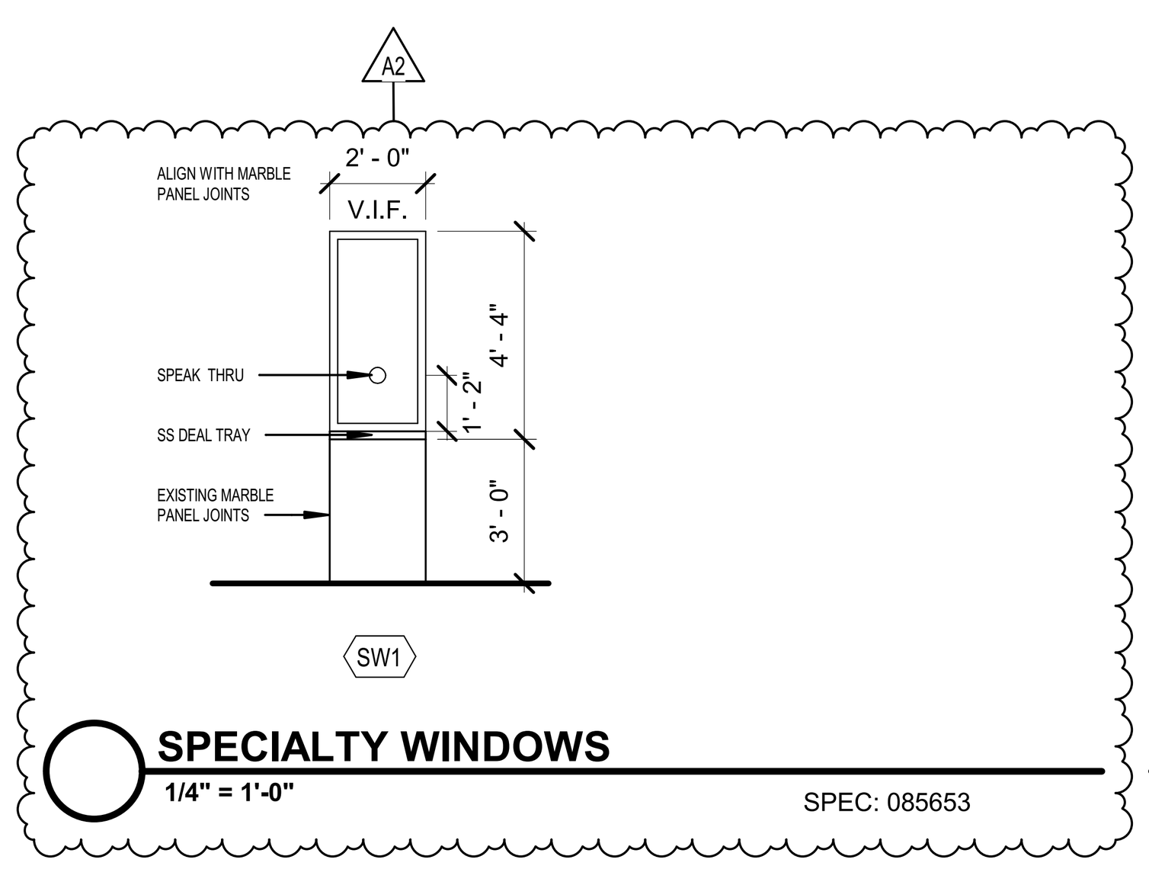
5.4.602 - DOOR PANEL ELEVATIONS
1/4" = 1'-0"



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



5.4.604 - INTERIOR STOREFRONT FRAME ELEVATIONS
1/4" = 1'-0"



SPECIALTY WINDOWS
1/4" = 1'-0"
SPEC: 085653

DOOR & FRAME SCHEDULE - NEW HARDWARE ONLY						
	DOOR PANEL					
MARK	TYPE	QTY	LABEL	HDWR SET	NOTES	MARK
EX-A205	F	1		11	1	EX-A205
EX-A206	F	1		11	1	EX-A206
EX-A207	F	1		11	1	EX-A207
EX-A208	F	1		11	1	EX-A208
EX-A209	F	1		11	1	EX-A209
EX-A210	F	1		11	1	EX-A210
EX-A211	F	1		11	1	EX-A211
EX-A212	F	1		11	1	EX-A212
EX-A213	F	1		11	1	EX-A213
EX-A215	F	1		11		EX-A215
EX-A216	F	1		11	1	EX-A216
EX-A219.1	F	1		11	1	EX-A219.1
EX-A219.2	F	1		11	1	EX-A219.2
EX-A223	F	1		11	1	EX-A223
EX-A224	F	1		11	1	EX-A224
EX-A225	F	1		11	1	EX-A225
EX-A226	F	1		11	1	EX-A226
EX-A227	F	1		11	1	EX-A227
EX-A228	F	1		11	1	EX-A228
EX-A229	F	1		11	1	EX-A229
EX-A230.1	F	1		11	1	EX-A230.1
EX-A230.2	F	1		11	1	EX-A230.2
EX-B100B	F	1		11	1	EX-B100B
EX-B100C	F	1		11	1	EX-B100C
EX-B100D	F	1		11	1	EX-B100D
EX-B100E	F	1		11	1	EX-B100E
EX-B100F	F	1		11	1	EX-B100F
EX-B100G	F	1		11	1	EX-B100G
EX-B100H	F	1		11	1	EX-B100H
EX-B100J	F	1		11	1	EX-B100J
EX-B100N	F	1		11	1	EX-B100N
EX-B100T	F	1		11	1	EX-B100T
EX-B101	F	1		11	1	EX-B101
EX-B102	F	1		11	1	EX-B102
EX-B103H	F	1		11	1	EX-B103H
EX-B105	F	1		11	1	EX-B105
EX-C110	F	1		11	1	EX-C110
EX-C207	F	1		11	1	EX-C207
EX-F100	F	1		12	2	EX-F100
EX-F101	F	1		12	2	EX-F101
EX-F104	F	1		12	2	EX-F104
EX-F108	F	1		12	2	EX-F108
EX-F113	F	2	#HR	15	2	EX-F113
EX-G108	F	1		02	1	EX-G108
EX-G109	F	1		02	1	EX-G109
EX-GC101.2	F	2		37		EX-GC101.2
EX-H101	NV	1		13	2	EX-H101
EX-H102	NV	1		12	2	EX-H102
EX-H103	NV	2	#HR	16	2	EX-H103
EX-V111.1	F	2	#HR	28		EX-V111.1
EX-V111.2	F	2	#HR	30		EX-V111.2

A1

DOOR & FRAME SCHEDULE - PHASE 1														
	DOOR PANEL							FRAME						
					SIZE									
MARK	TYPE	QTY	MATL	GLAZ	H	W	TH	MARK	MATL	GLAZ	LABEL	HDWR SET	NOTES	MARK
A121	F	2	HM	--	7' - 0"	6' - 0"	0' - 1 3/4"	F1	HM	--		25		A121
AC200	F	2	HM	--	7' - 0"	6' - 4"	0' - 1 3/4"	F1	HM	--	#HR	36		AC200
B100	F	1	HM	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	Existing to Remain	--		19	4	B100
B100A	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		20		B100A
B100B.1	F	1	WD	--	7' - 0"	4' - 0"	0' - 1 3/4"	F1	H	--		20		B100B.1
B107.1	F	2	WD	--	7' - 0"	6' - 0"	0' - 1 3/4"	F1	WD	--		32		B107.1
B107.2	F	2	WD	--	7' - 0"	6' - 0"	0' - 1 3/4"	F1	WD	--		32		B107.2
BC200	F	2	HM	--	7' - 0"	6' - 0"	0' - 1 3/4"	F1	WD	--		36		BC200
C100	F	1	HM	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		04		C100
C101	NV	2	WD	TG	7' - 0"	8' - 0"	0' - 1 3/4"	F1	HM	--		14		C101
C200A	SG	1	AL	TG	7' - 0"	3' - 0"	0' - 1 3/4"	AG1	AL	TG		40		C200A
C200B	SG	1	AL	TG	7' - 0"	3' - 0"	0' - 1 3/4"	AG1	AL	TG		40		C200B
C200C	SG	1	AL	TG	7' - 0"	3' - 0"	0' - 1 3/4"	AG1	AL	TG		40		C200C
C200D	SG	1	AL	TG	7' - 0"	3' - 0"	0' - 1 3/4"	AG1	AL	TG		40		C200D
C200E	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		21		C200E
C200F	SG	1	AL	TG	7' - 0"	3' - 0"	0' - 1 3/4"	AG2	AL	TG		40		C200F
C200G	SG	1	AL	TG	7' - 0"	3' - 0"	0' - 1 3/4"	AG2	AL	TG		40		C200G
C200J	SG	1	AL	TG	7' - 0"	3' - 0"	0' - 1 3/4"	AG2	AL	TG		40		C200J
C206	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		08		C206
CA000	F	2	WD	--	7' - 0"	6' - 0"	0' - 1 3/4"	F1	HM	--		36		CA000
E101A	OH		HM	--	8' - 0"	10' - 0"	0' - 1 3/4"	F1	HM	--		39		E101A
E101P	F	2	HM	--	7' - 0"	5' - 0"	0' - 1 3/4"	F1	HM	--		23		E101P
E-101	NV	2	WD	TG	7' - 0"	6' - 0"	0' - 1 3/4"	F1	Existing to Remain	--		34	4	E-101
E-108	NV	2	WD	TG	7' - 0"	6' - 0"	0' - 1 3/4"	F1	Existing to Remain	--		35	4	E-108
F105	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		22		F105
F110	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	HM	TG	20 MIN	10		F110
F112.1	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	HM	--		07		F112.1
F112.2	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		17		F112.2
G100.1	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		06		G100.1
G100.2	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		06		G100.2
G100A	NV	1	WD	TG	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		05		G100A
G100B	NV	1	WD	TG	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		05		G100B
G100C	F	2	WD	--	7' - 0"	6' - 0"	0' - 1 3/4"	F1	HM	--		26		G100C
G100D	NV	1	WD	TG	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		05		G100D
G100E	NV	1	WD	TG	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		05		G100E
G100F	NV	1	WD	TG	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		05		G100F
G100G	NV	1	WD	TG	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		05		G100G
G100H	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		03		G100H
G101	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		18		G101
G102	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--	20 MIN	09		G102
G103	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--	20 MIN	09		G103
G104C	F	2	WD	--	7' - 0"	6' - 0"	0' - 1 3/4"	F1	HM	--	20 MIN	27		G104C
G105	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		31		G105
G106.1	NV	2	WD	TG	7' - 0"	6' - 0"	0' - 1 3/4"	F1	HM	--	20 MIN	38		G106.1
G106.2	NV	2	WD	TG	7' - 0"	6' - 0"	0' - 1 3/4"	F1	HM	--	20 MIN	33		G106.2
G106A	F	2	HM	--	7' - 0"	6' - 0"	0' - 1 3/4"	F1	HM	--		24		G106A
G106A.2	OH		HM	--	8' - 0"	10' - 0"	0' - 1 3/4"	F1	HM	--		39		G106A.2
G106D	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		22		G106D
G110	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F2	HM	TG	20 MIN	10		G110
G111	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		01		G111
G-101	NV	1	WD	TG	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--	20 MIN	09		G-101
GC100.2	NV	2	HM	TG	7' - 0"	6' - 0"	0' - 1 3/4"	F1	HM	--		37		GC100.2
GC101.1	NV	2	HM	TG	7' - 0"	6' - 0"	0' - 1 3/4"	F1	HM	--		37		GC101.1
H103A	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	Existing to Remain	--		05	4	H103A
V-108.1	NV	2	WD	TG	7' - 0"	6' - 0"	0' - 1 3/4"	F1	Existing to Remain	--		35	4	V-108.1
V-108.2	NV	2	WD	TG	7' - 0"	6' - 0"	0' - 1 3/4"	F1	Existing to Remain	--		29	4	V-108.2

A1

GENERAL NOTES

A. This Door Schedule(s) is furnished for whatever assistance it may afford the Contractor. Do not consider it as entirely inclusive. Carefully examine the Drawings (especially the Floor Plans) and the Specifications to determine the extent of door and frame quantities required (including interior borrowed lite or sidelite openings). Should any particular door, frame, or interior borrowed lite or sidelite shown on the Drawings be inadvertently omitted from this Schedule, supply same as required for similar openings.

B. The "QTY" column designates the number of leaves in the opening. The "Door Width" column designates the total width of all leaves. In multiple leaf conditions, the leaves shall equally divide the "Door Width" unless noted otherwise; however, the active leaf shall not be less than 3'-0" wide.

C. Door Type "X" denotes a frame with no door such as a borrowed lite, reference Frame Elevations.

D. An asterisk (*) in a dimension denotes a width that varies, reference plans, elevations, details and schedules.

E. Verify locksets with the Owner during submittals.

ABBREVIATIONS

- AL Aluminum
- HM Hollow Metal
- ST Steel
- WD Wood - Maple
- TG Tempered Glazing
- IG Insulated Glazing
- LG Laminated Glazing
- FG Frosted Glazing
- SP Spandrel Panel

DOOR & FRAME SCHEDULE NOTES
See Door Schedule

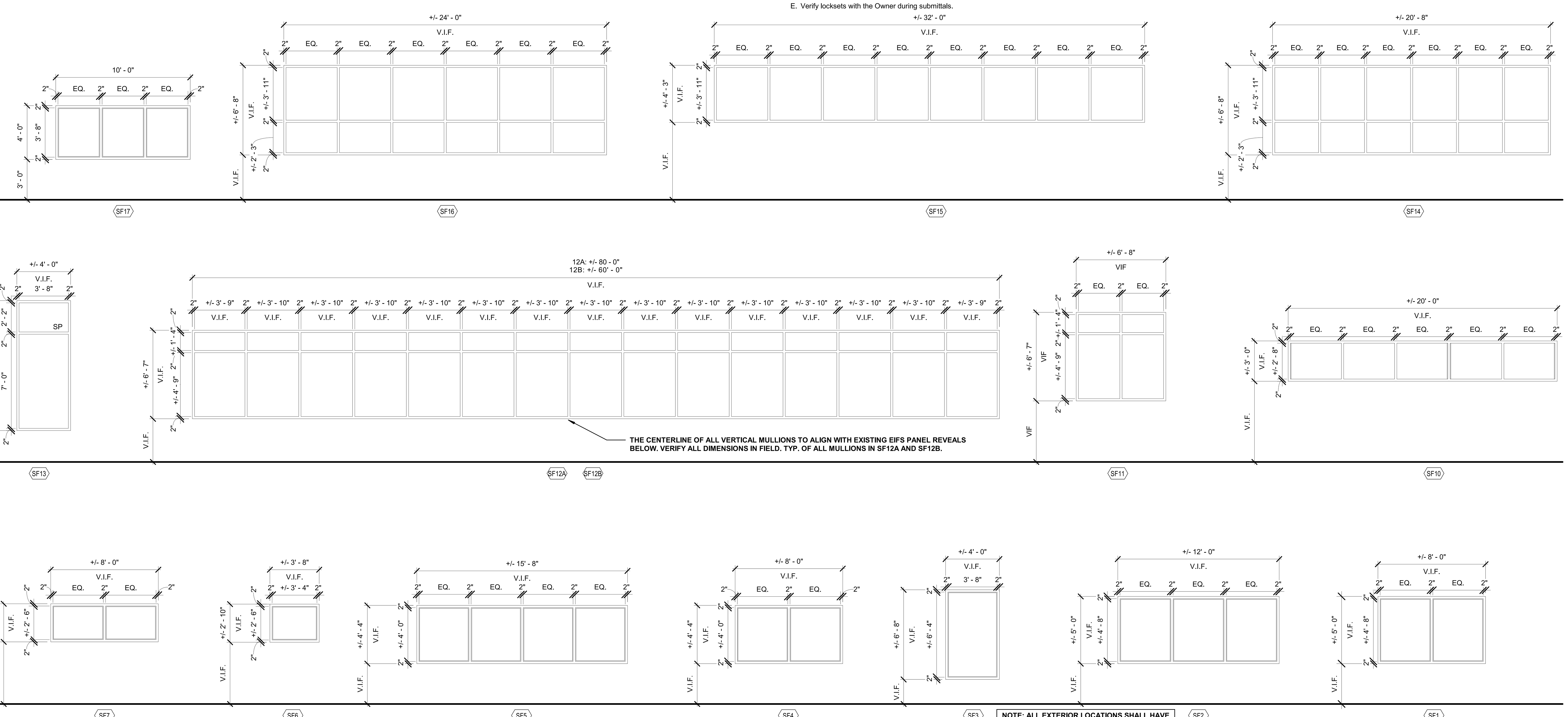
1. Existing door and frame to remain. New hardware only. Field verify all existing door and frame information as required for installation of new hardware.

2. Existing door and frame to remain. New secure hardware only. Field verify all existing door and frame information as required for installation of new hardware.

3. Existing frame to remain. Existing doors and hardware to be removed.

4. Existing frame to remain. New doors and hardware required. Modify existing hardware for new lockset as required. Field verify all existing frame information as required for installation of new doors and hardware.

5. Set door in frame to allow for 180° door swing.



NOTE: ALL EXTERIOR LOCATIONS SHALL HAVE IG-1 GLASS TYPE UNLESS NOTED OTHERWISE
ALL INTERIOR LOCATIONS SHALL HAVE TG GLASS TYPE UNLESS NOTED OTHERWISE

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

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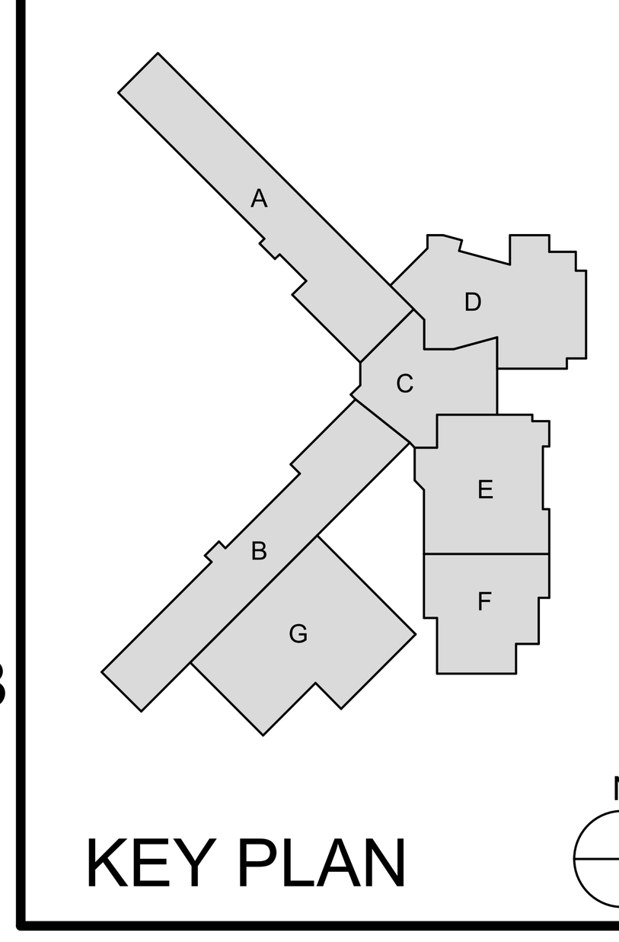
Project No. 2019-067.WSC
Project Date 07.31.2024
Produced SS TM

#	Revision	Date
A1	ADDENDUM #1	08.22.2024
A2	ADDENDUM #2	08.29.2024

8401 Westfield Blvd
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

DOOR AND FRAME SCHEDULE

A-600

GENERAL HVAC NOTES

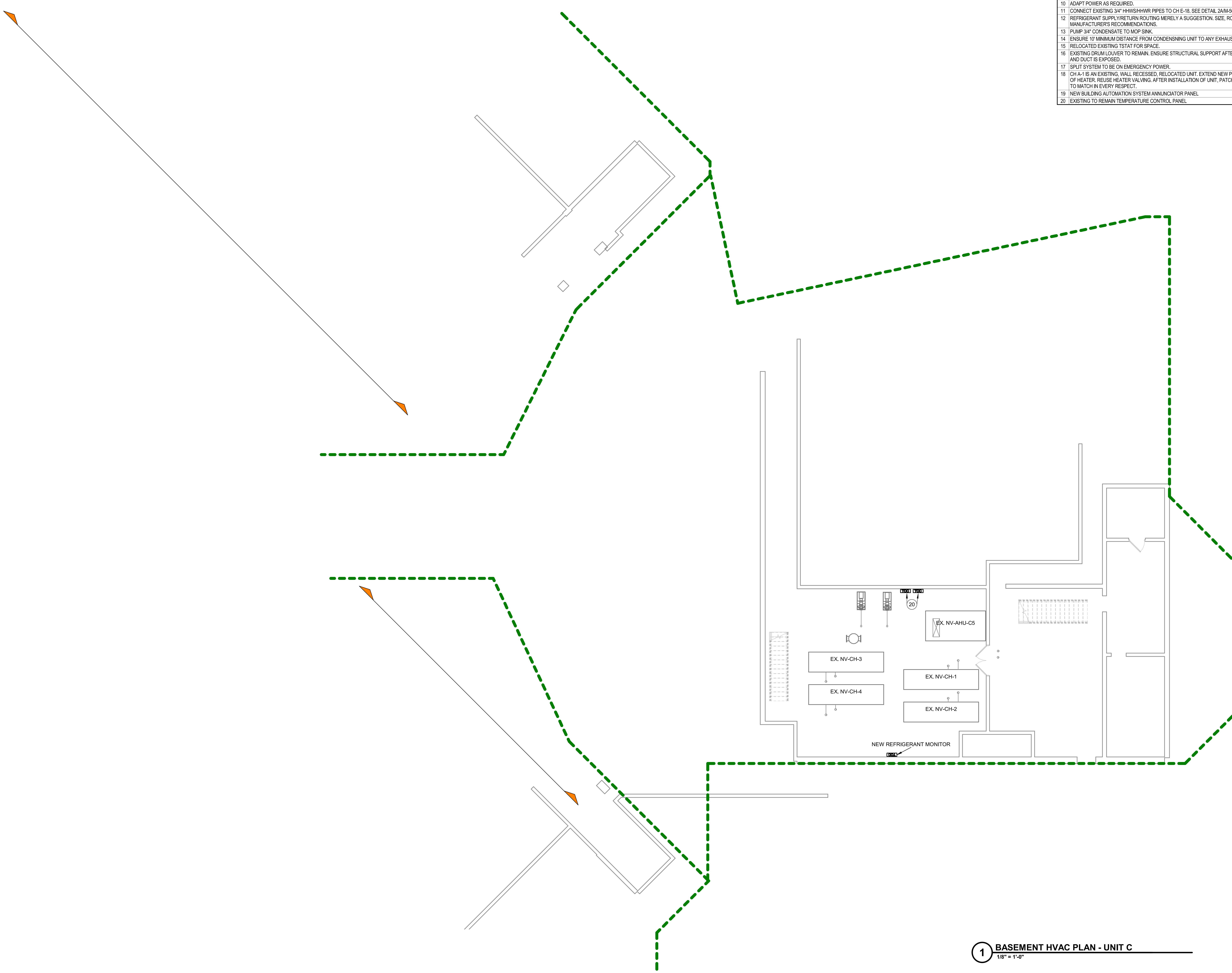
A. DARK LINES INDICATE NEW WORK.

B. LIGHT SOLID LINES INDICATE EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, AND/OR MECHANICAL ACCESSORIES TO REMAIN AS-IS. CONTRACTOR TO FIELD VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO BIDDING.

C. IN AREAS OF ARCHITECTURAL CEILING REPLACEMENT OR ADJUSTMENTS, CLEAN AND ADJUST EXISTING MECHANICAL DIFFUSERS, REGISTERS, AND/OR GRILLES TO NEW CEILING GRID. TYPICAL OF ALL AREAS WITH CEILINGS THAT HAVE BEEN ALTERED IN THIS PHASE.

MECHANICAL HVAC PLAN NOTES

#	NOTE
1	RECONNECT TO EXISTING DUCT AND EXISTING PIPING INCLUDING CONDENSATE.
2	TRANSITION FROM EXISTING TO NEW DUCT AS NECESSARY.
3	INLINE DEF-G1. GOOSENECK ON ROOF.
4	UP TO EF-G2 ON ROOF.
5	ALIGN EXISTING CEILING DIFFUSERS TO NEW CEILING GRID.
6	RELOCATED EXISTING TSTAT FOR ZONE SERVING NEW ADMIN SPACE FROM AHU-F2.
7	ZONE TO SERVE NEW ADMIN AREA. EXISTING PROGRAMMING UTILIZES SPACE TEMPERATURE SENSOR FOR AVERAGING, BUT CONTROLS TO RETURN AIR TEMPERATURE.
8	UP TO EF-G3 ON ROOF. VOLUME DAMPER IN VERTICAL DUCTWORK.
9	ROUTE CONDENSATE TO ADJACENT FLOOR DRAIN.
10	ADAPT POWER AS REQUIRED.
11	CONNECT EXISTING 3/4" HHWS/HHWR PIPES TO CH E-18. SEE DETAIL 2A/M-501.
12	REFRIGERANT SUPPLY/RETURN ROUTING MERELY A SUGGESTION. SIZE, ROUTE, AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
13	PUMP 3/4" CONDENSATE TO MOP SINK.
14	ENSURE 10' MINIMUM DISTANCE FROM CONDENSNING UNIT TO ANY EXHAUST FAN.
15	RELOCATED EXISTING TSTAT FOR SPACE.
16	EXISTING DRUM LOUVER TO REMAIN. ENSURE STRUCTURAL SUPPORT AFTER CEILING IS REMOVED AND DUCT IS EXPOSED.
17	SPLIT SYSTEM TO BE ON EMERGENCY POWER.
18	CH A-1 IS AN EXISTING, WALL RECESSED, RELOCATED UNIT. EXTEND NEW PIPING TO NEW LOCATION OF HEATER. REUSE HEATER VALVING. AFTER INSTALLATION OF UNIT, PATCH SURROUNDING WALL TO MATCH IN EVERY RESPECT.
19	NEW BUILDING AUTOMATION SYSTEM ANNUNCIATOR PANEL
20	EXISTING TO REMAIN TEMPERATURE CONTROL PANEL



1 BASEMENT HVAC PLAN - UNIT C
1/8" = 1'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.WSC
Project Date 07.31.2024
Produced PFS/ DLM

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A2	ADDENDUM #2	08.29.2024

8401 Westfield Blvd
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KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

A2

BASEMENT HVAC PLAN - UNIT C

MH1C0

GENERAL HVAC NOTES

A. DARK LINES INDICATE NEW WORK.

B. LIGHT SOLID LINES INDICATE EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, AND/OR MECHANICAL ACCESSORIES TO REMAIN AS-IS. CONTRACTOR TO FIELD VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO BIDDING.

C. IN AREAS OF ARCHITECTURAL CEILING REPLACEMENT OR ADJUSTMENTS, CLEAN AND ADJUST EXISTING MECHANICAL DIFFUSERS, REGISTERS, AND/OR GRILLES TO NEW CEILING GRID. TYPICAL OF ALL AREAS WITH CEILINGS THAT HAVE BEEN ALTERED IN THIS PHASE.

MECHANICAL HVAC PLAN NOTES

#	NOTE
1	RECONNECT TO EXISTING DUCT AND EXISTING PIPING INCLUDING CONDENSATE.
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3	INLINE DEF-G1. GOOSENECK ON ROOF.
4	UP TO EF-G2 ON ROOF.
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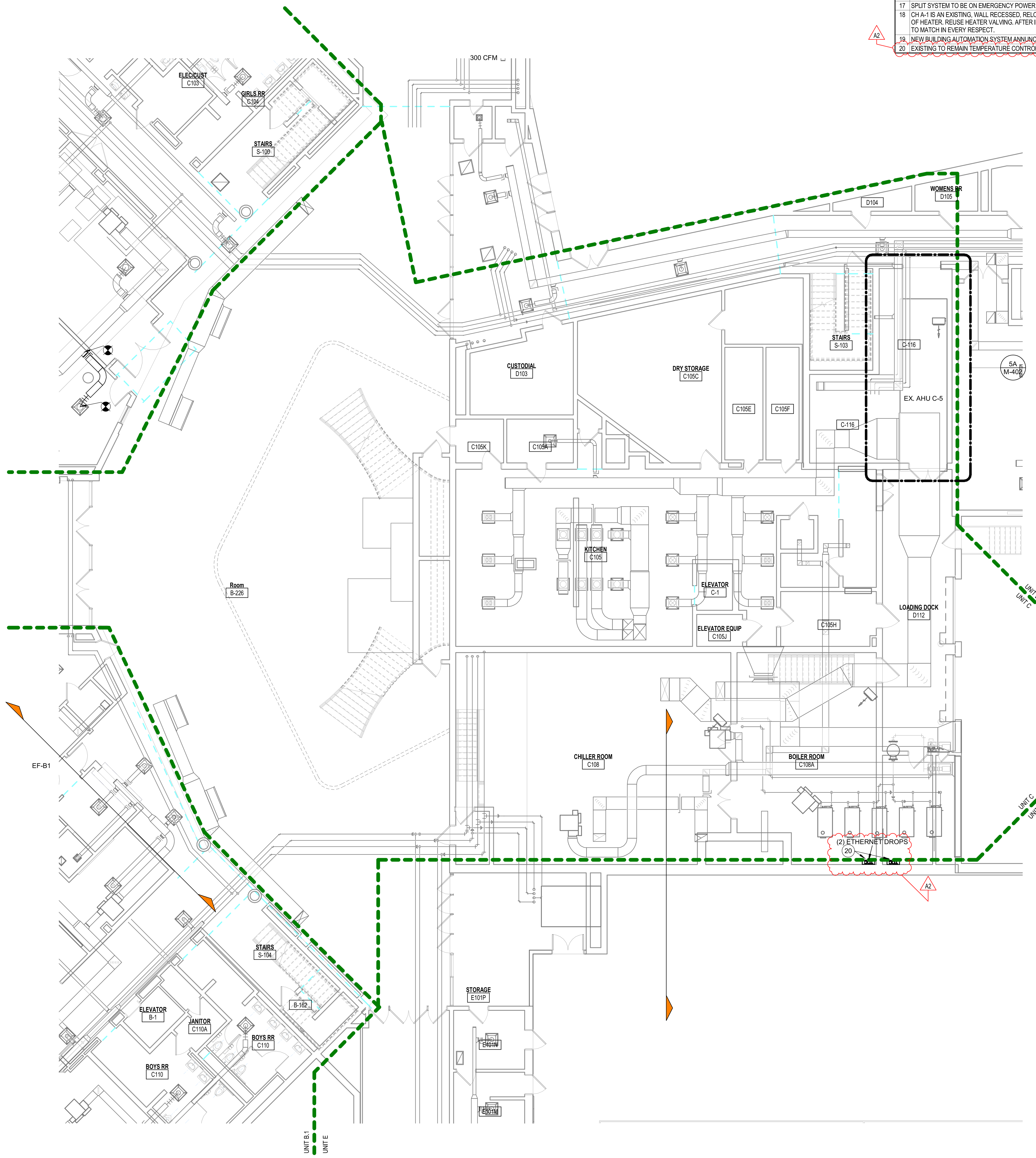
7	ZONE TO SERVE NEW ADMIN AREA. EXISTING PROGRAMMING UTILIZES SPACE TEMPERATURE SENSOR FOR AVERAGING, BUT CONTROLS TO RETURN AIR TEMPERATURE.
8	UP TO EF-G3 ON ROOF. VOLUME DAMPER IN VERTICAL DUCTWORK.
9	ROUTE CONDENSATE TO ADJACENT FLOOR DRAIN.
10	ADAPT POWER AS REQUIRED.
11	CONNECT EXISTING 3/4" HHWS/HHWR PIPES TO CH E-18. SEE DETAIL 2A/M-501.
12	REFRIGERANT SUPPLY/RETURN ROUTING MERELY A SUGGESTION. SIZE, ROUTE, AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
13	PUMP 3/4" CONDENSATE TO MOP SINK.
14	ENSURE 10' MINIMUM DISTANCE FROM CONDENSNING UNIT TO ANY EXHAUST FAN.
15	RELOCATED EXISTING TSTAT FOR SPACE.
16	EXISTING DRUM LOUVER TO REMAIN. ENSURE STRUCTURAL SUPPORT AFTER CEILING IS REMOVED AND DUCT IS EXPOSED.
17	SPLIT SYSTEM TO BE ON EMERGENCY POWER.
18	CH A-1 IS AN EXISTING, WALL RECESSED, RELOCATED UNIT. EXTEND NEW PIPING TO NEW LOCATION OF HEATER. REUSE HEATER VALVING. AFTER INSTALLATION OF UNIT, PATCH SURROUNDING WALL TO MATCH IN EVERY RESPECT.
19	NEW BUILDING AUTOMATION SYSTEM ANNUNCIATOR PANEL
20	EXISTING TO REMAIN TEMPERATURE CONTROL PANEL

A2



1A FIRST FLOOR HVAC PLAN - UNIT C
1/8" = 1'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.WSC
Project Date 07.31.2024
Produced PFS

SARAH KATHLEEN HEMPSTEAD REGISTERED ARCHITECT No. AR10400134 STATE OF INDIANA

#	Revision	Date
A2	ADDENDUM #2	08.29.2024

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KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

FIRST FLOOR HVAC PLAN - UNIT C

MH1C1

GENERAL HVAC NOTES

A. DARK LINES INDICATE NEW WORK.

B. LIGHT SOLID LINES INDICATE EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, AND/OR MECHANICAL ACCESSORIES TO REMAIN AS-IS. CONTRACTOR TO FIELD VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO BIDDING.

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MECHANICAL HVAC PLAN NOTES

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1	RECONNECT TO EXISTING DUCT AND EXISTING PIPING INCLUDING CONDENSATE.
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3	INLINE DEF-G1. GOOSENECK ON ROOF.
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8	UP TO EF-G3 ON ROOF. VOLUME DAMPER IN VERTICAL DUCTWORK.
9	ROUTE CONDENSATE TO ADJACENT FLOOR DRAIN.
10	ADAPT POWER AS REQUIRED.
11	CONNECT EXISTING 3/4" HHWS/HHWR PIPES TO CH E-18. SEE DETAIL 2A/M-501.
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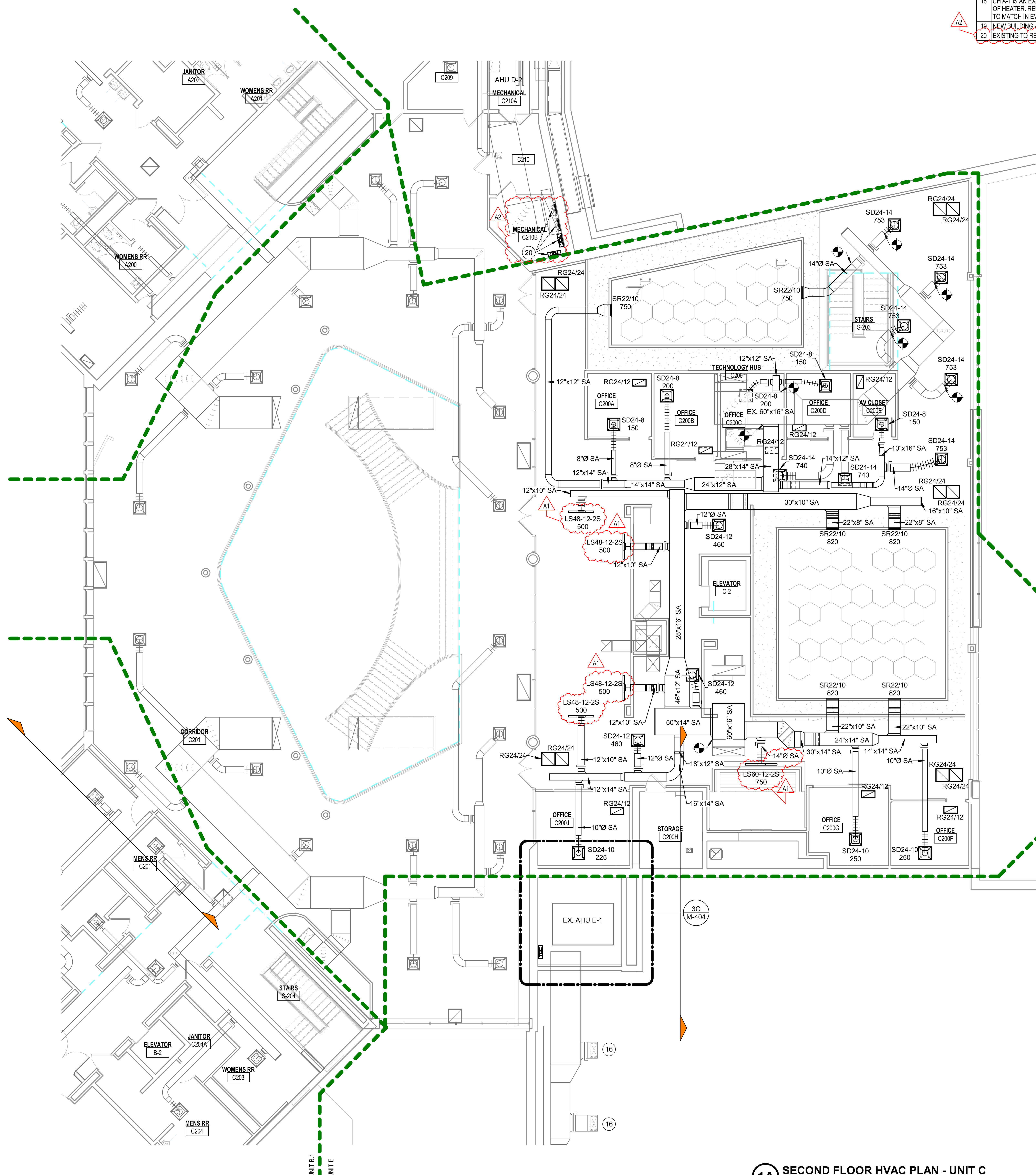
18	CH A-1 IS AN EXISTING, WALL RECESSED, RELOCATED UNIT. EXTEND NEW PIPING TO NEW LOCATION OF HEATER. REUSE HEATER VALVING. AFTER INSTALLATION OF UNIT, PATCH SURROUNDING WALL TO MATCH IN EVERY RESPECT.
19	NEW BUILDING AUTOMATION SYSTEM ANNUNCIATOR PANEL
20	EXISTING TO REMAIN TEMPERATURE CONTROL PANEL

A2



1A SECOND FLOOR HVAC PLAN - UNIT C
1/8" = 1'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
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Project No. 2019-067.WSC
Project Date 07.31.2024
Produced PFS

SARAH KATHLEEN HEMPSTEAD REGISTERED ARCHITECT NO. AR10400134 STATE OF INDIANA

#	Revision	Date
A1	ADDENDUM #1	08.22.2024
A2	ADDENDUM #2	08.29.2024

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KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

SECOND FLOOR HVAC PLAN - UNIT C

MH1C2

GENERAL HVAC NOTES

A. DARK LINES INDICATE NEW WORK.

B. LIGHT SOLID LINES INDICATE EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, AND/OR MECHANICAL ACCESSORIES TO REMAIN AS-IS. CONTRACTOR TO FIELD VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO BIDDING.

C. IN AREAS OF ARCHITECTURAL CEILING REPLACEMENT OR ADJUSTMENTS, CLEAN AND ADJUST EXISTING MECHANICAL DIFFUSERS, REGISTERS, AND/OR GRILLES TO NEW CEILING GRID. TYPICAL OF ALL AREAS WITH CEILINGS THAT HAVE BEEN ALTERED IN THIS PHASE.

MECHANICAL HVAC PLAN NOTES

#	NOTE
1	RECONNECT TO EXISTING DUCT AND EXISTING PIPING INCLUDING CONDENSATE.
2	TRANSITION FROM EXISTING TO NEW DUCT AS NECESSARY.
3	INLINE DEF-G1. GOOSENECK ON ROOF.
4	UP TO EF-G2 ON ROOF.
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6	RELOCATED EXISTING TSTAT FOR ZONE SERVING NEW ADMIN SPACE FROM AHU-F2.
7	ZONE TO SERVE NEW ADMIN AREA. EXISTING PROGRAMMING UTILIZES SPACE TEMPERATURE SENSOR FOR AVERAGING, BUT CONTROLS TO RETURN AIR TEMPERATURE.
8	UP TO EF-G3 ON ROOF. VOLUME DAMPER IN VERTICAL DUCTWORK.
9	ROUTE CONDENSATE TO ADJACENT FLOOR DRAIN.
10	ADAPT POWER AS REQUIRED.
11	CONNECT EXISTING 3/4" HHWS/HHWR PIPES TO CH E-18. SEE DETAIL 2A/M-501.
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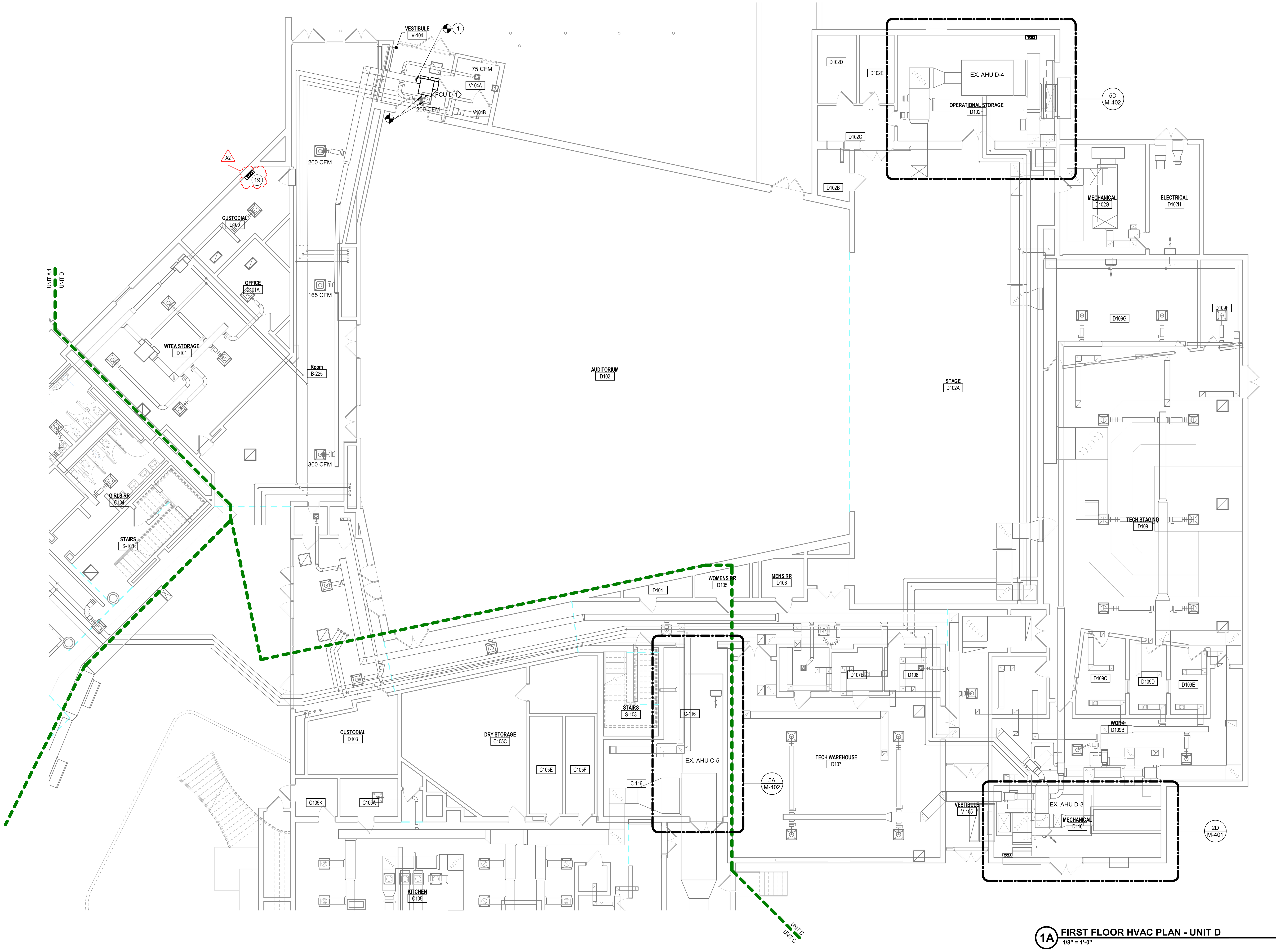
19	NEW BUILDING AUTOMATION SYSTEM ANNUNCIATOR PANEL
20	EXISTING TO REMAIN TEMPERATURE CONTROL PANEL

A2



1A FIRST FLOOR HVAC PLAN - UNIT D

1/8" = 1'-0"

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Project Date 07.31.2024
Produced PFS

SARAH KATHLEEN HEMPSTEAD
REGISTERED ARCHITECT
NO. AR10400134
STATE OF INDIANA

#	Revision	Date
A2	ADDENDUM #2	08.29.2024

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KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

FIRST FLOOR HVAC PLAN - UNIT D

MH1D1

GENERAL HVAC NOTES

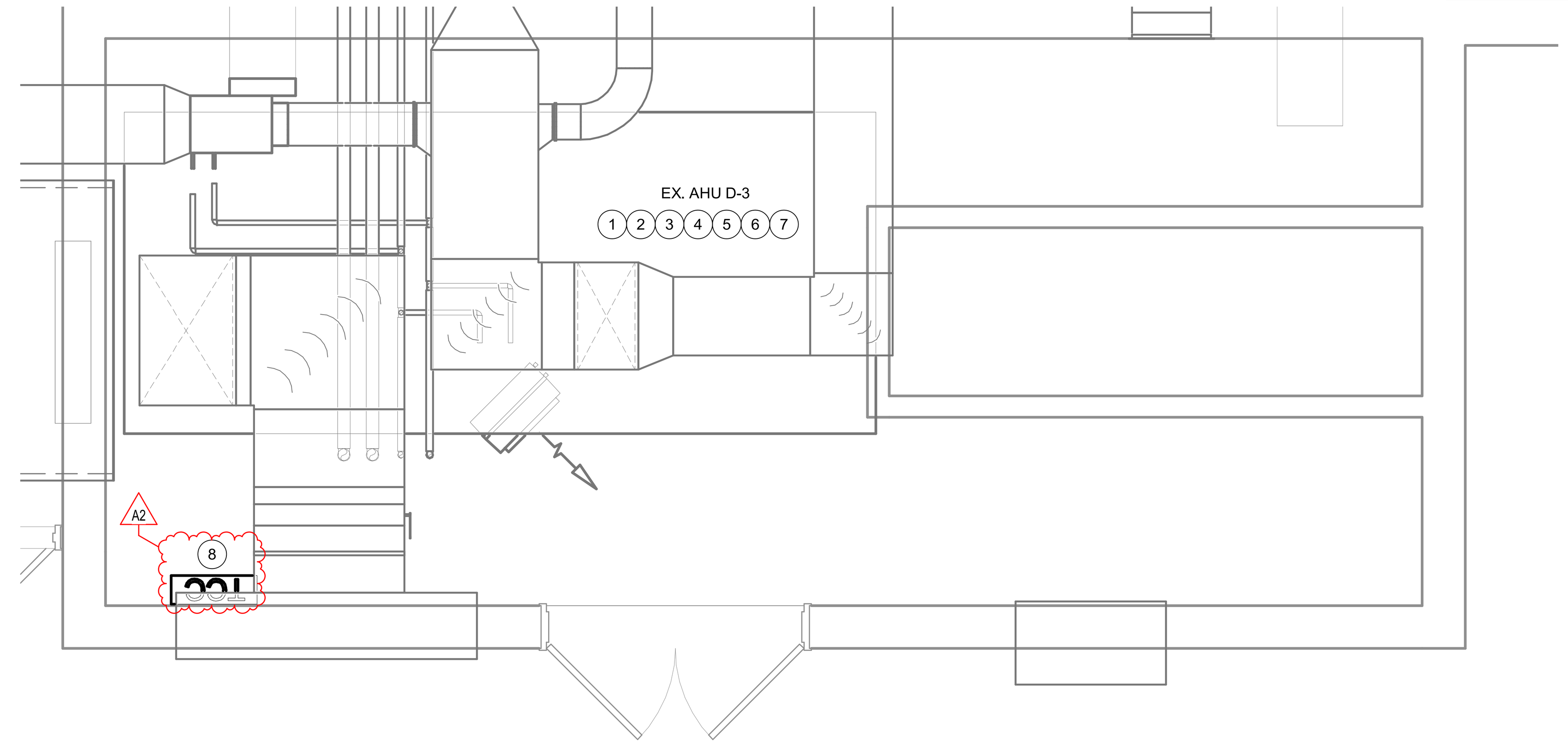
A. DARK LINES INDICATE NEW WORK.

B. LIGHT SOLID LINES INDICATE EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, AND/OR MECHANICAL ACCESSORIES TO REMAIN AS-IS. CONTRACTOR TO FIELD VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO BIDDING.

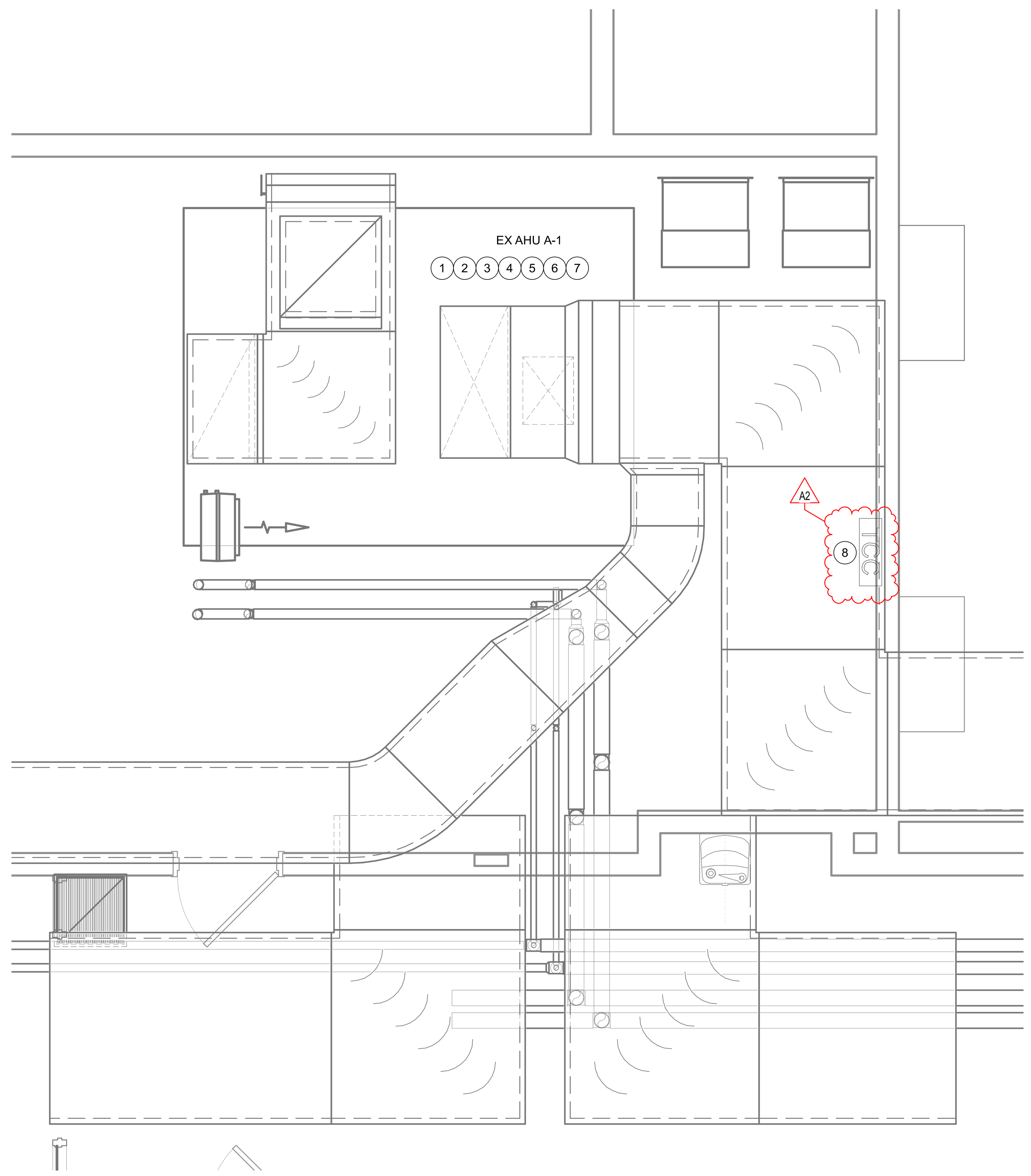
C. IN AREAS OF ARCHITECTURAL CEILING REPLACEMENT OR ADJUSTMENTS, CLEAN AND ADJUST EXISTING MECHANICAL DIFFUSERS, REGISTERS, AND/OR GRILLES TO NEW CEILING GRID. TYPICAL OF ALL AREAS WITH CEILINGS THAT HAVE BEEN ALTERED IN THIS PHASE.

ENLARGED COMBINED PLAN NOTES

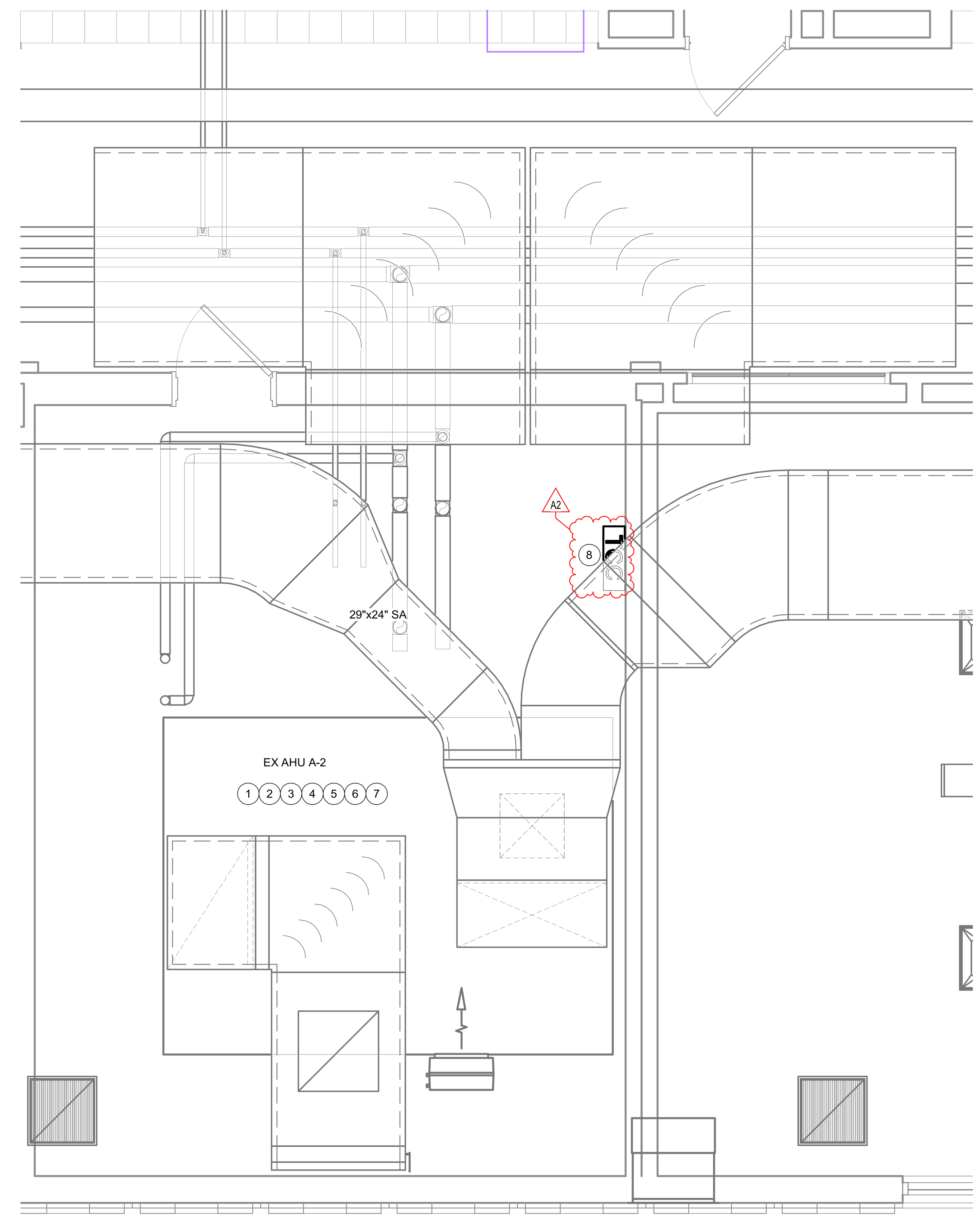
#	NOTE
1	THOROUGHLY CLEAN HEATING COIL, COOLING COIL, CONDENSATE PANS, AND DRAINS IN THE AIR HANDLER. CLEAN FAN ASSEMBLY AND CHECK FOR ANY STRUCTUAL ISSUES. REPORT ANY DISCREPANCIES TO THE OWNER.
2	REPLACE ALL BELTS IN AIR HANDLING UNIT. ENSURE ALIGNMENT IS EFFICIENT.
3	VERIFY COIL PERFORMANCES BY DELTA T AND RECORD. VERIFY MOTOR AMP DRAW AND RECORD. REPORT DATA AND ANY DISCREPANCIES TO OWNER.
4	INSPECT PIPING, INSULATION, AND HAND VALVES FOR ANY ISSUES. INSPECT AHU CONNECTED DUCTWORK AND INSULATION FOR ANY ISSUES THAT WILL NEED TO BE ADDRESSED. REPORT ANY DISCREPANCIES TO OWNER.
5	INSPECT AHU DOORS AND INSULATION FOR DAMAGE. REPAIR ANY BROKEN OR COMPROMISED HINGES, DOORS, HANDLES, AND INSULATION.
6	INSPECT COMPLETE DAMPER MECHANISMS FOR REPAIR OPPORTUNITIES. REPORT ANY DISCREPANCIES TO OWNER.
7	COMPLETE VFD PREVENTATIVE MAINTENANCE LIST WITH FULLER.
8	EXISTING TO REMAIN TEMPERATURE CONTROL PANEL



2D MECHANICAL D-137
3/8" = 1'-0"



3A MECHANICAL ROOM A-109C
3/8" = 1'-0"



1A MECHANICAL ROOM A-126
3/8" = 1'-0"

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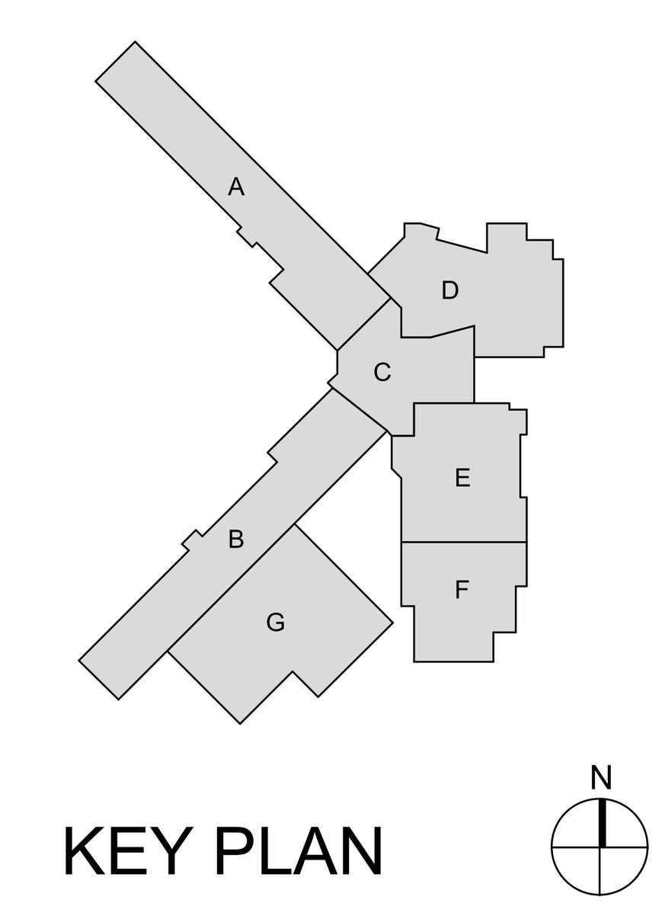
SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A2	ADDENDUM #2	08.29.2024

8401 Westfield Blvd
Indianapolis, IN 46240



KEY PLAN

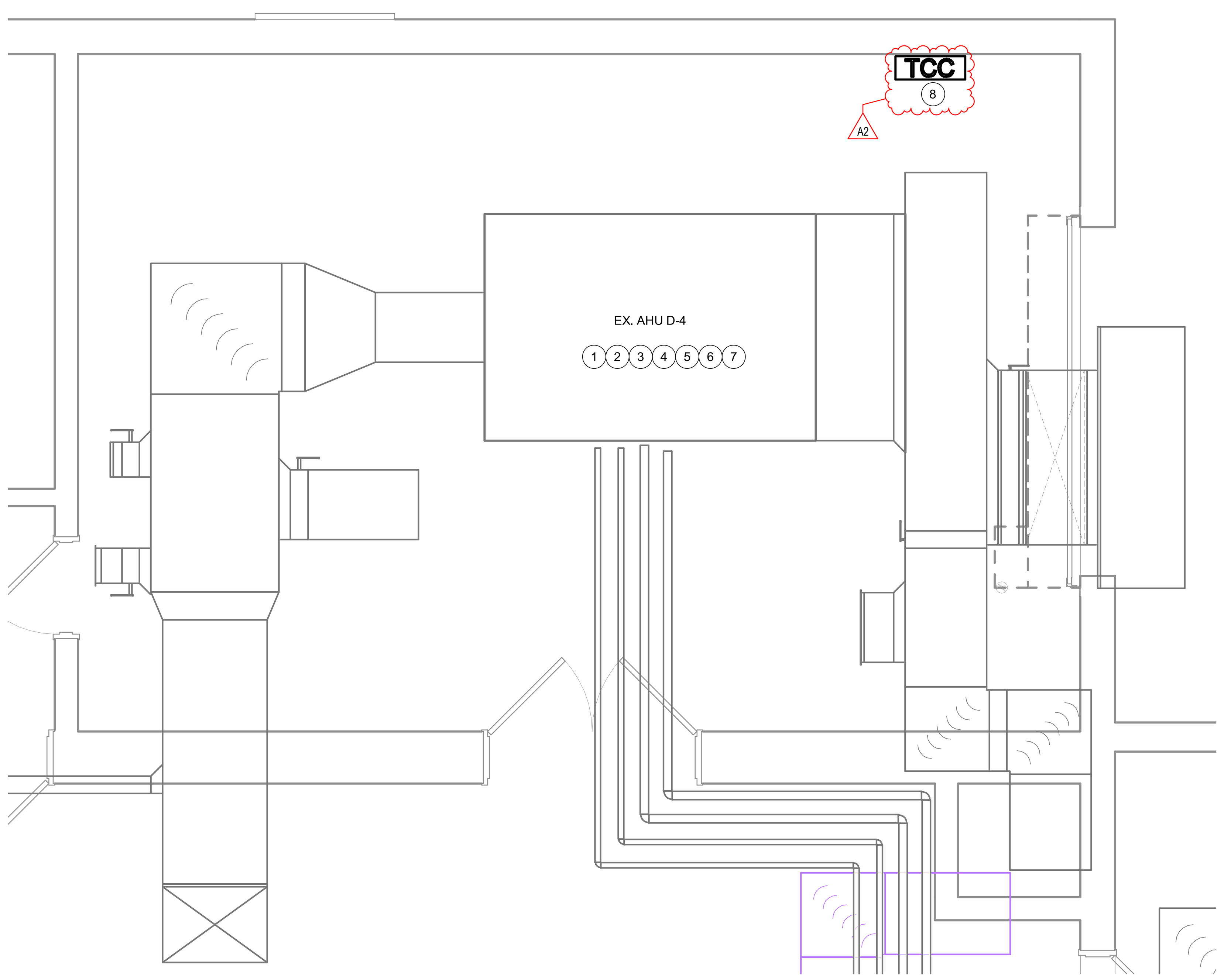
M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

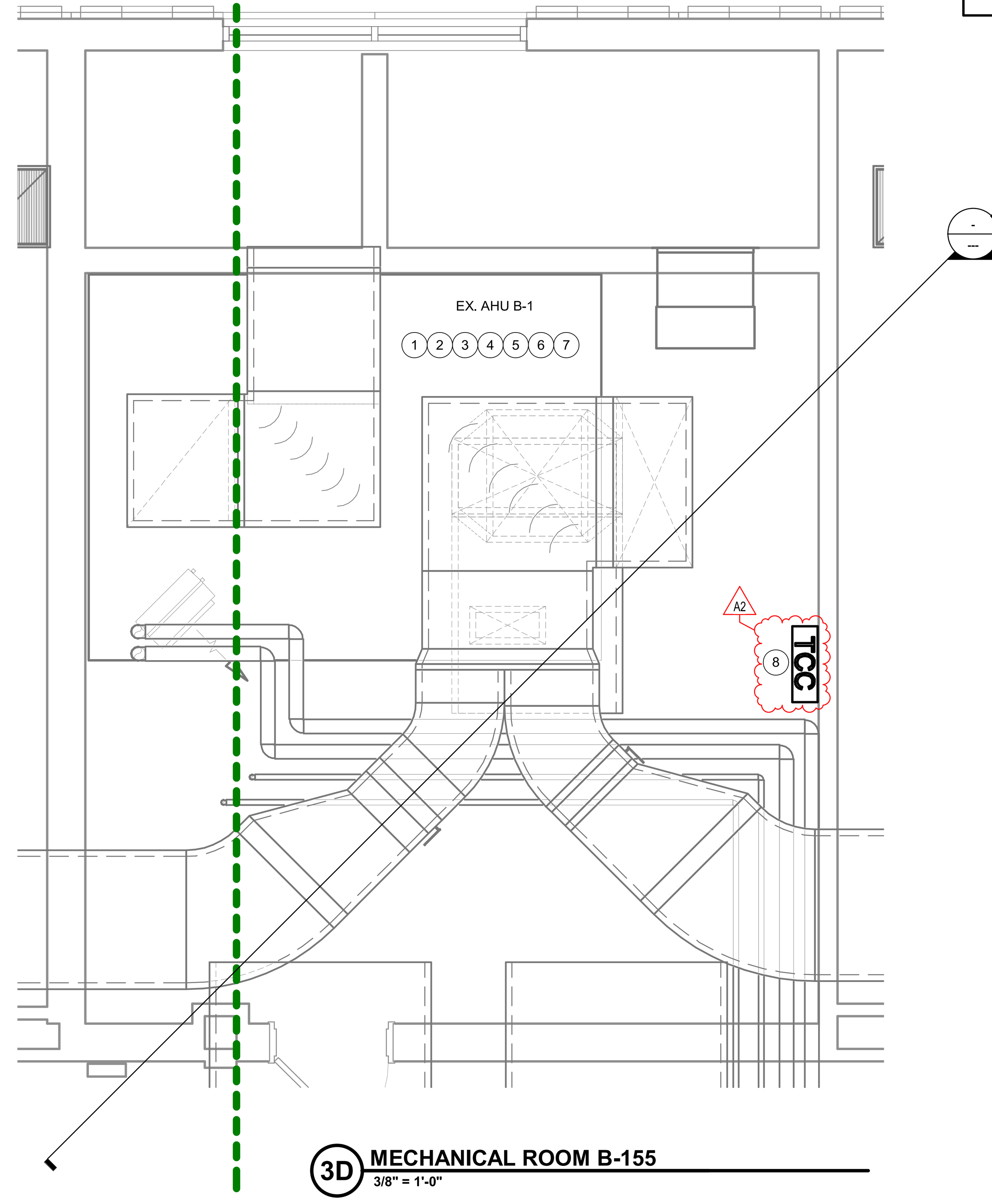
SERVICES CENTER RENOVATION - PHASE 6B

ENLARGED MECHANICAL ROOM PLAN

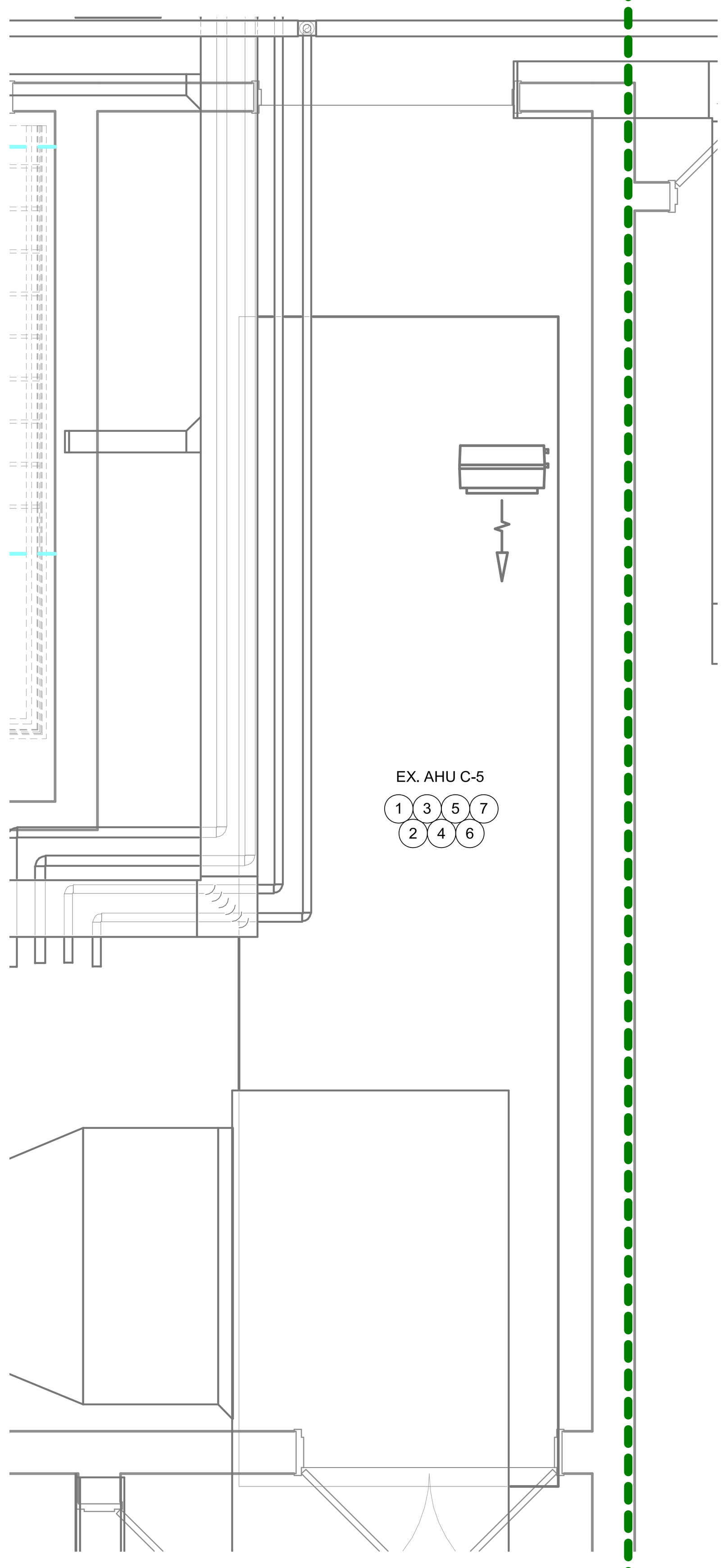
M-401



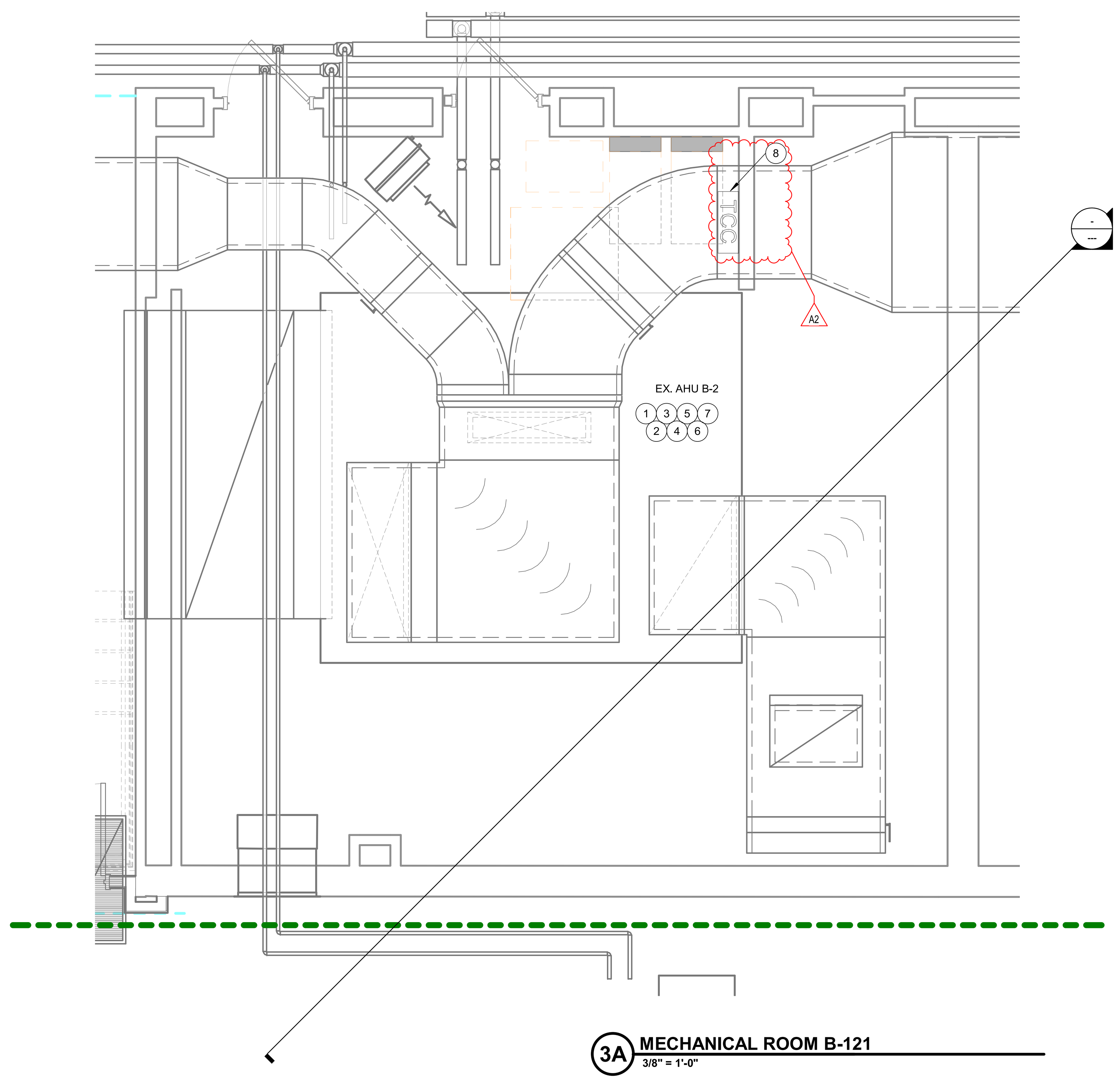
5D MECHANICAL ROOM D-101
3/8" = 1'-0"



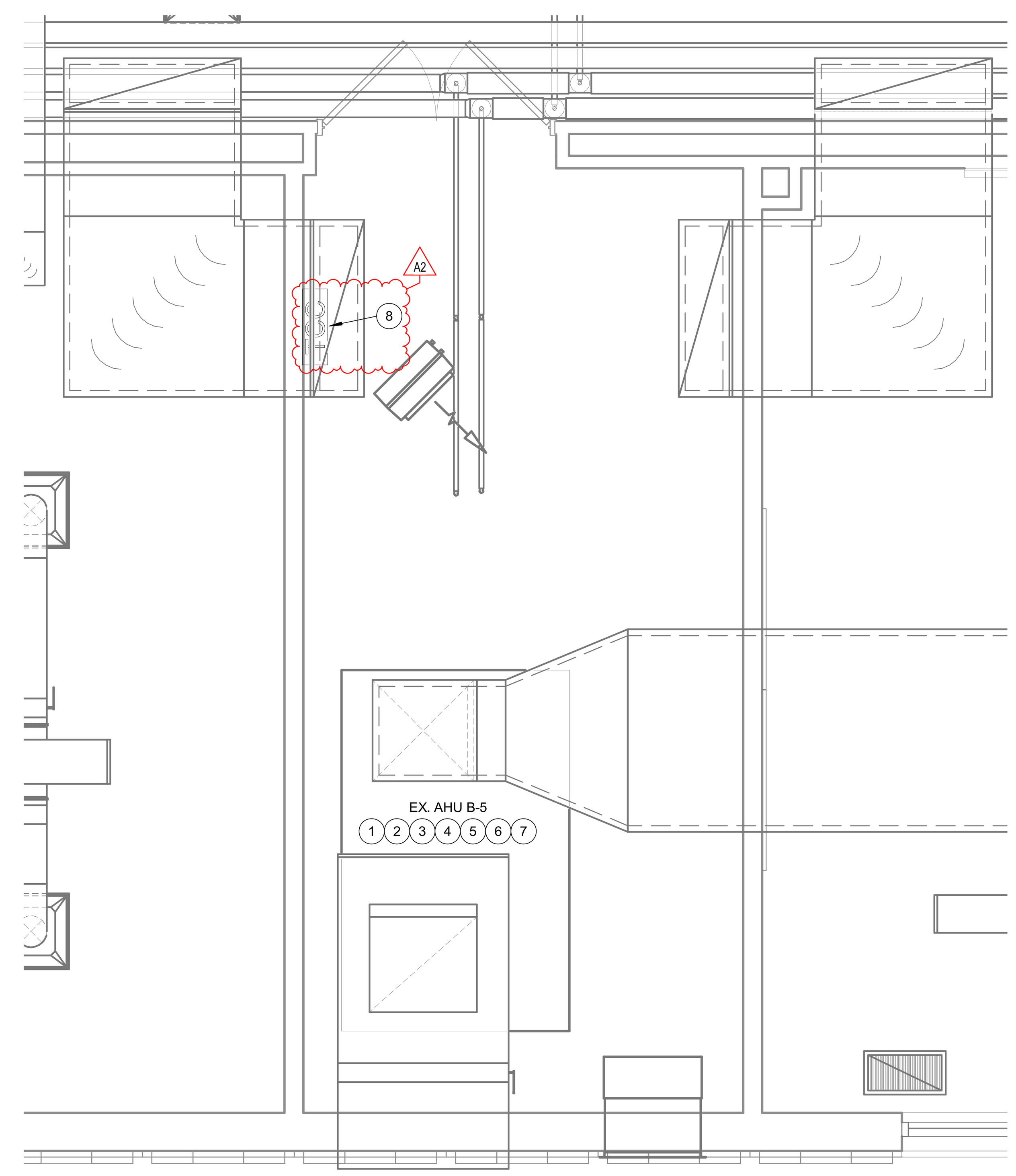
3D MECHANICAL ROOM B-155
3/8" = 1'-0"



5A MECHANICAL ROOM C-116
3/8" = 1'-0"



3A MECHANICAL ROOM B-121
3/8" = 1'-0"



1A MECHANICAL ROOM B-101C
3/8" = 1'-0"

GENERAL HVAC NOTES

A. DARK LINES INDICATE NEW WORK.

B. LIGHT SOLID LINES INDICATE EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, AND/OR MECHANICAL ACCESSORIES TO REMAIN AS-IS. CONTRACTOR TO FIELD VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO BIDDING.

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ENLARGED COMBINED PLAN NOTES

#	NOTE
1	THOROUGHLY CLEAN HEATING COIL, COOLING COIL, CONDENSATE PANS, AND DRAINS IN THE AIR HANDLER. CLEAN FAN ASSEMBLY AND CHECK FOR ANY STRUCTUAL ISSUES. REPORT ANY DISCREPANCIES TO THE OWNER.
2	REPLACE ALL BELTS IN AIR HANDLING UNIT. ENSURE ALIGNMENT IS EFFICIENT.
3	VERIFY COIL PERFORMANCES BY DELTA T AND RECORD. VERIFY MOTOR AMP DRAW AND RECORD. REPORT DATA AND ANY DISCREPANCIES TO OWNER.
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7	COMPLETE VFD PREVENTATIVE MAINTENANCE LIST WITH FULLER.
8	EXISTING TO REMAIN TEMPERATURE CONTROL PANEL

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
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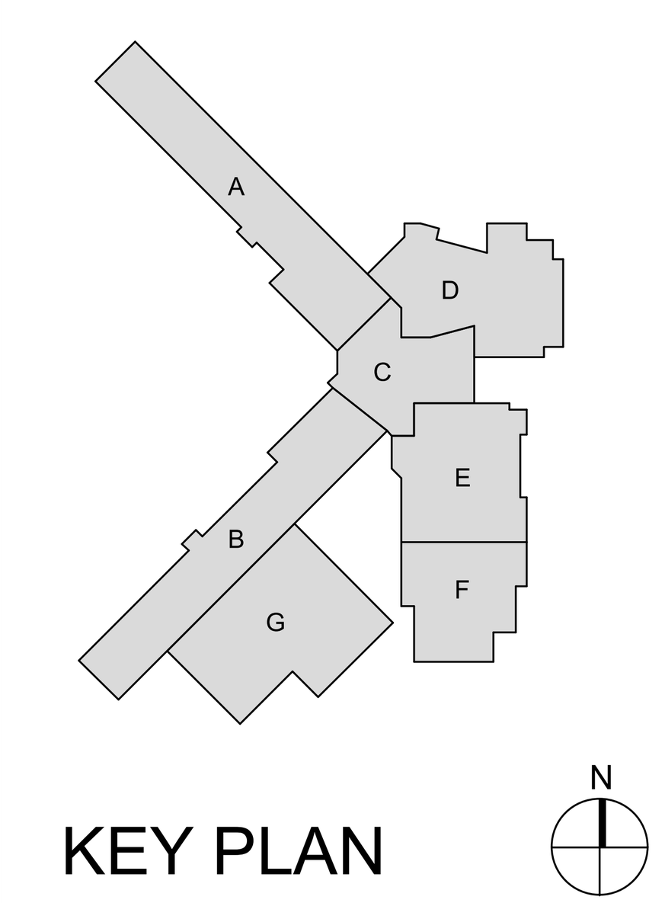
www.schmidt-arch.com

Project No. 2019-067.WSC
Project Date 07.31.2024
Produced PFS

SARAH KATHLEEN HEMPSTEAD REGISTERED ARCHITECT NO. AR10400134 STATE OF INDIANA

#	Revision	Date
A2	ADDENDUM #2	08.29.2024

8401 Westfield Blvd
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

ENLARGED MECHANICAL ROOM PLAN

M-402

GENERAL HVAC NOTES

A. DARK LINES INDICATE NEW WORK.

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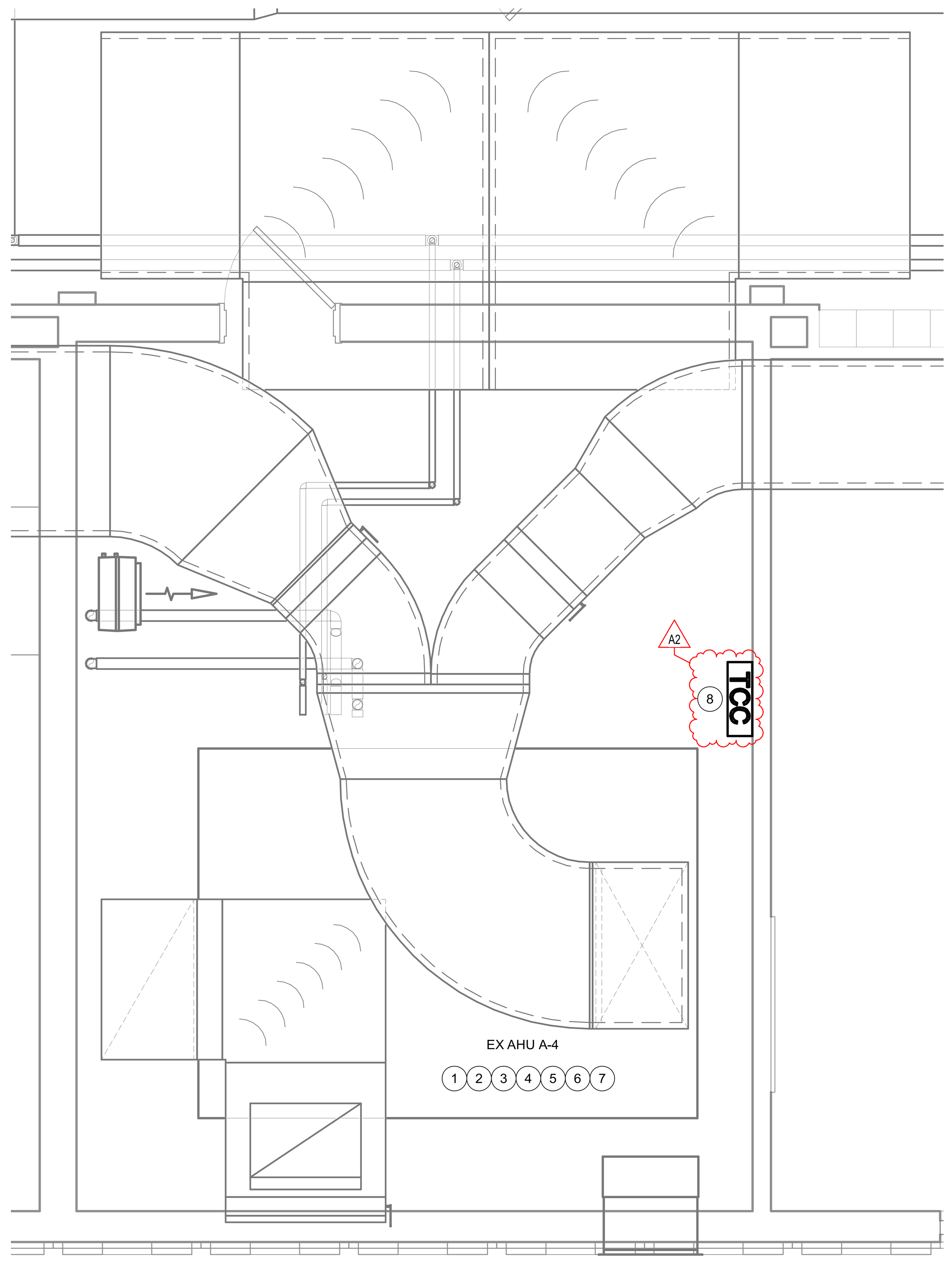
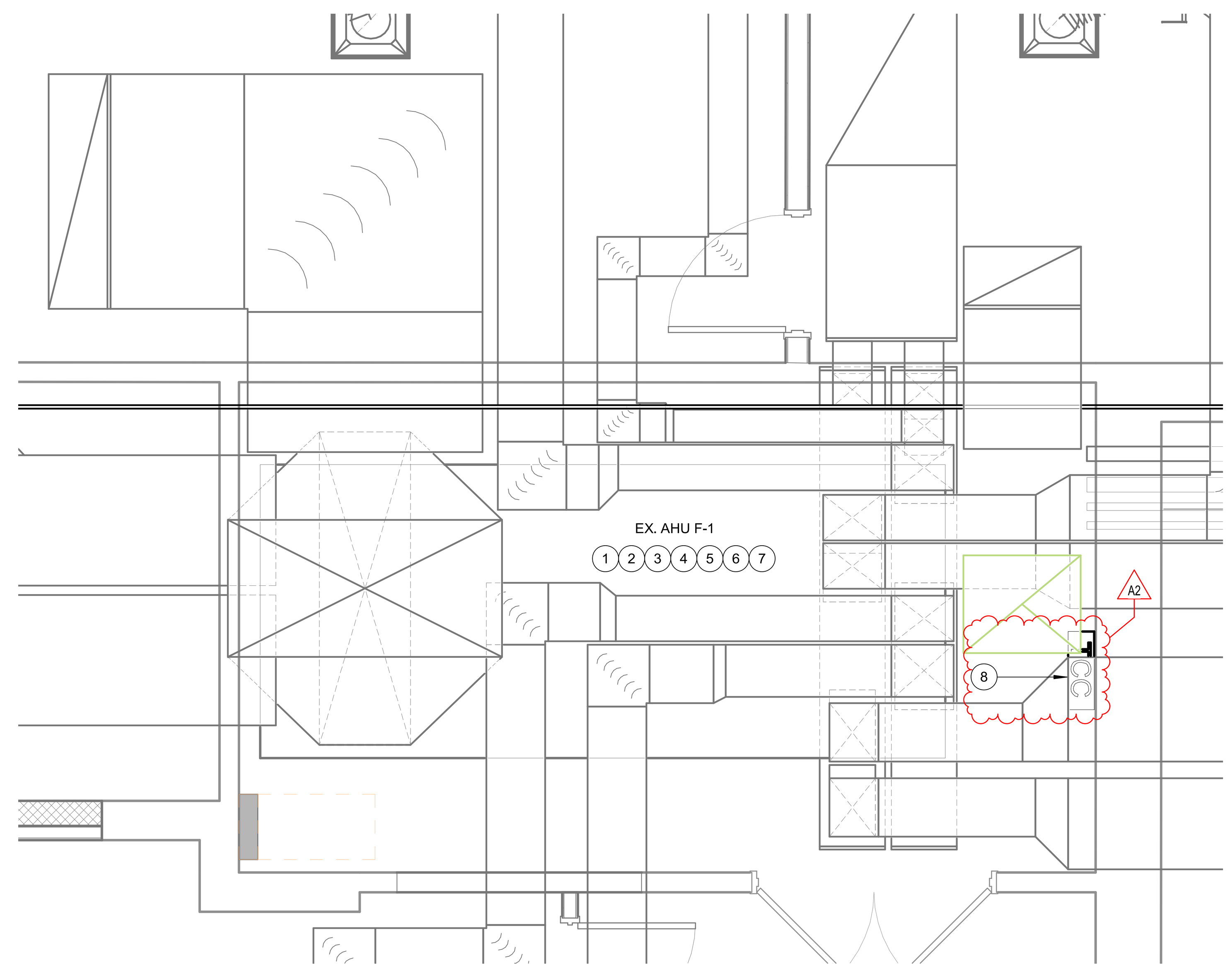
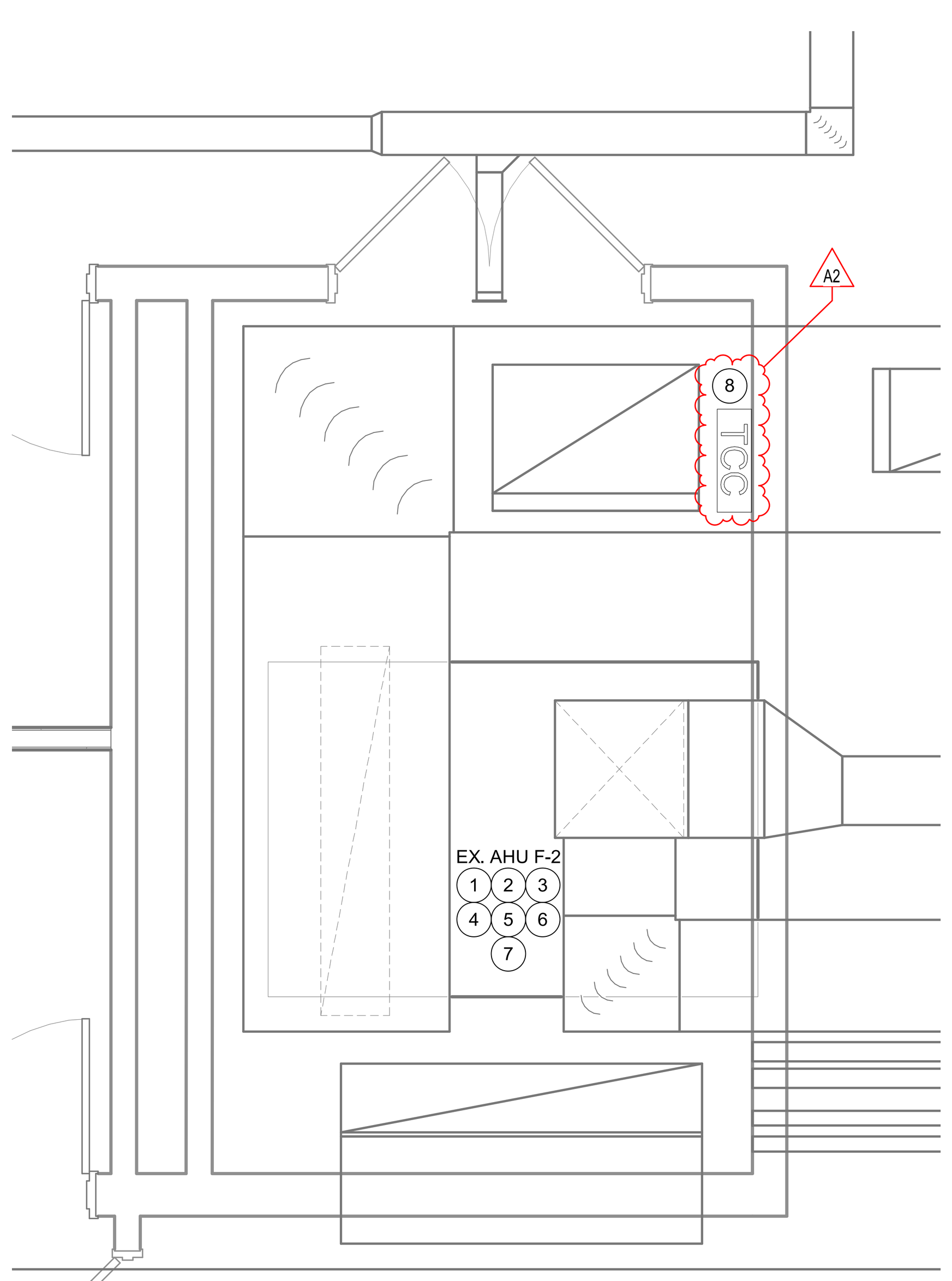
7	COMPLETE VFD PREVENTATIVE MAINTENANCE LIST WITH FULLER.
8	EXISTING TO REMAIN TEMPERATURE CONTROL PANEL



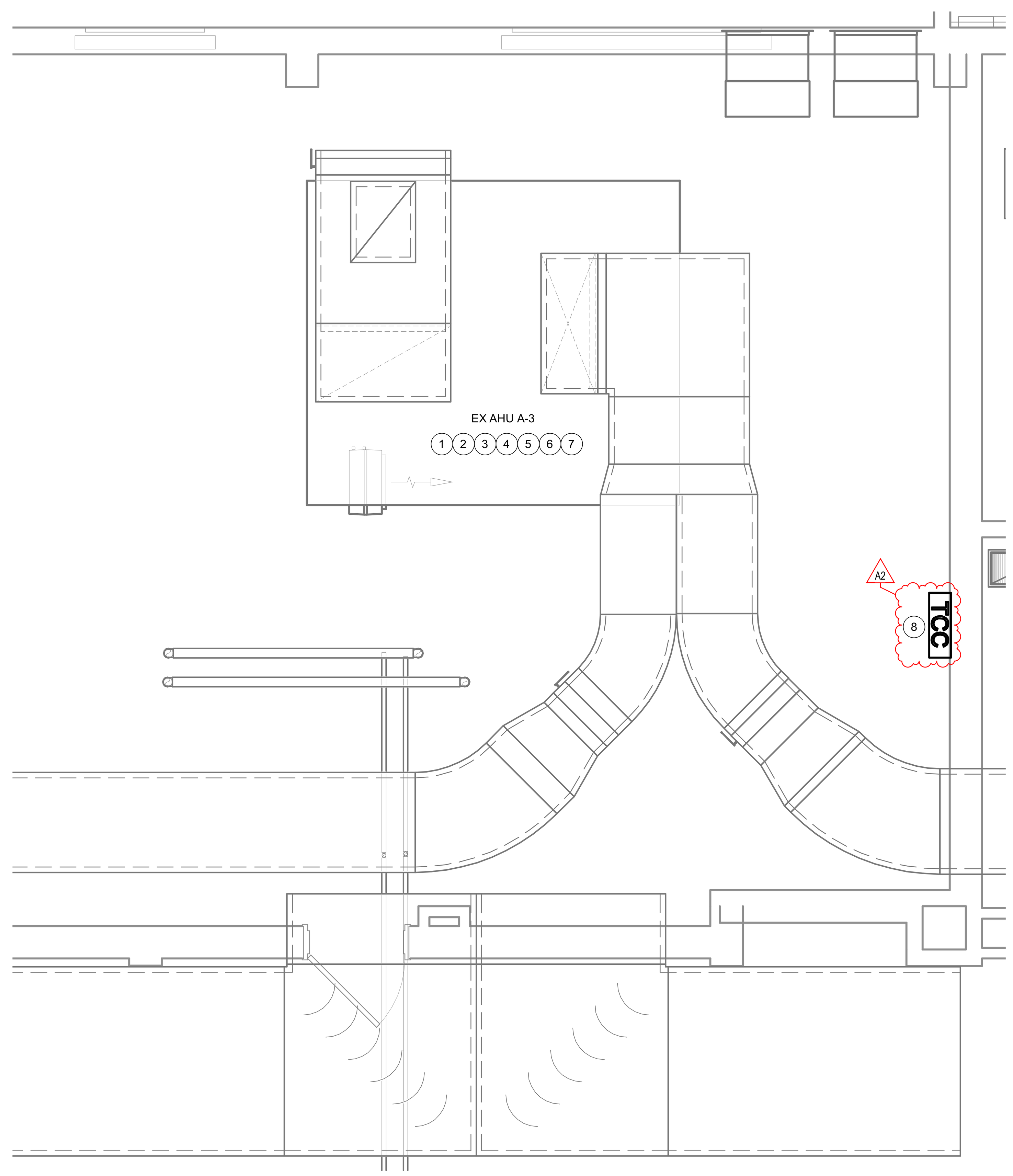
5D MECHANICAL ROOM A-206A
3/8" = 1'-0"



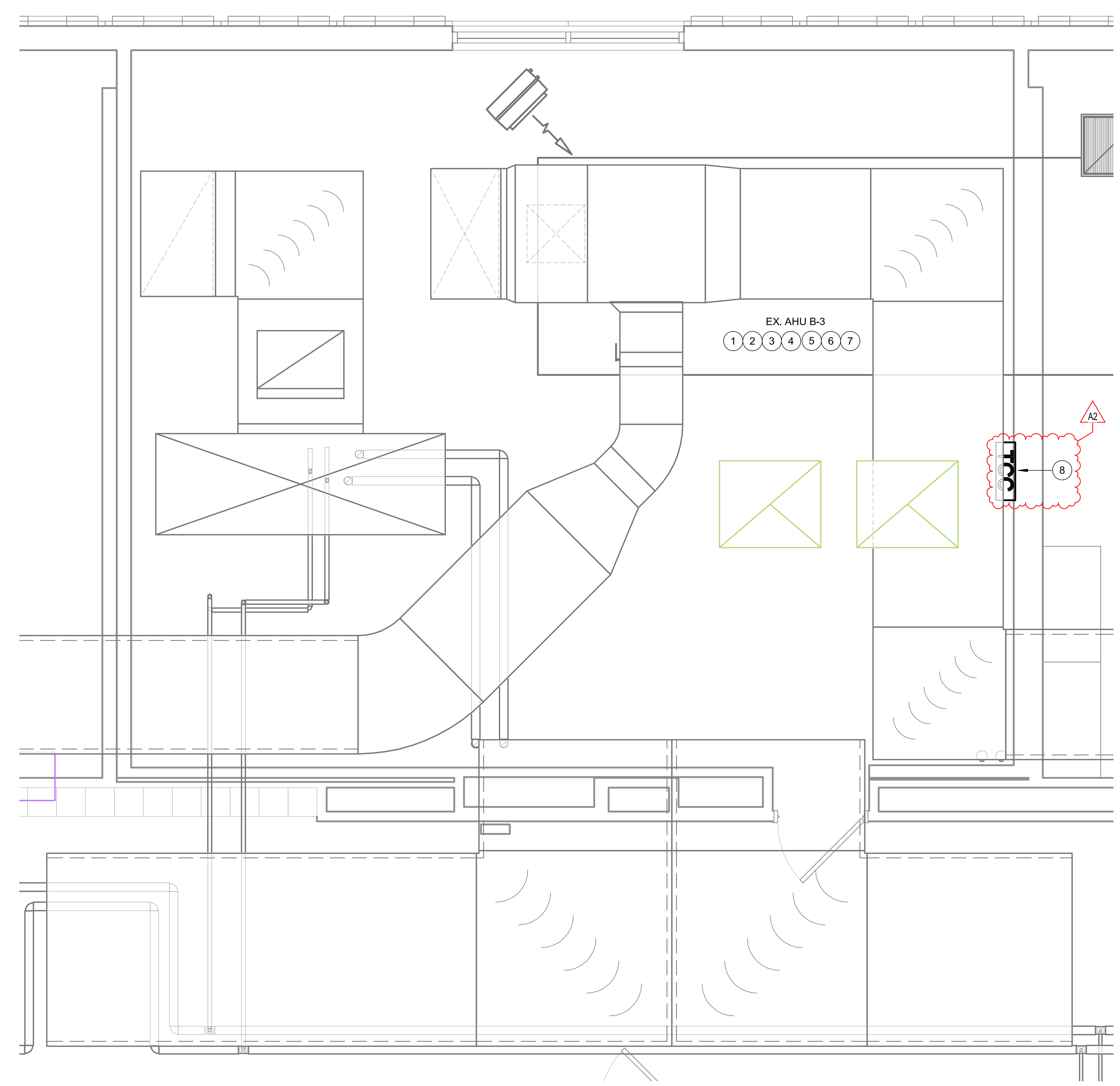
3D MECHANICAL ROOM H-104D
3/8" = 1'-0"



6A MECHANICAL ROOM UNIT G
3/8" = 1'-0"



3A MECHANICAL ROOM A-209C
3/8" = 1'-0"



1A MECHANICAL ROOM B-234
3/8" = 1'-0"

SCHMIDT
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415 Massachusetts Avenue
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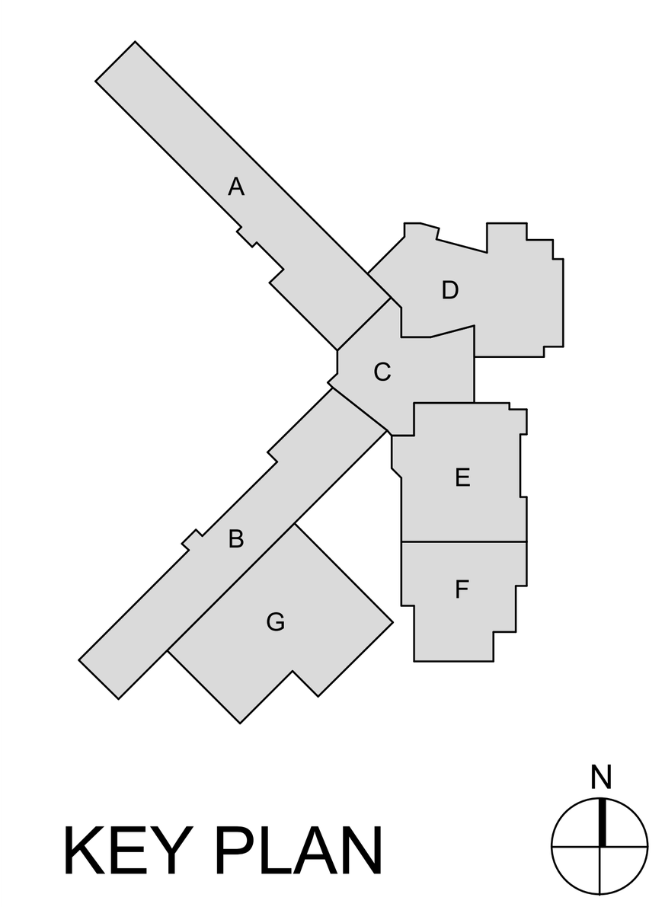
Project No. 2019-067.WSC
Project Date 07.31.2024
Produced PFS

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A2	ADDENDUM #2	08.29.2024

8401 Westfield Blvd
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

ENLARGED MECHANICAL ROOM PLAN

M-403

GENERAL HVAC NOTES

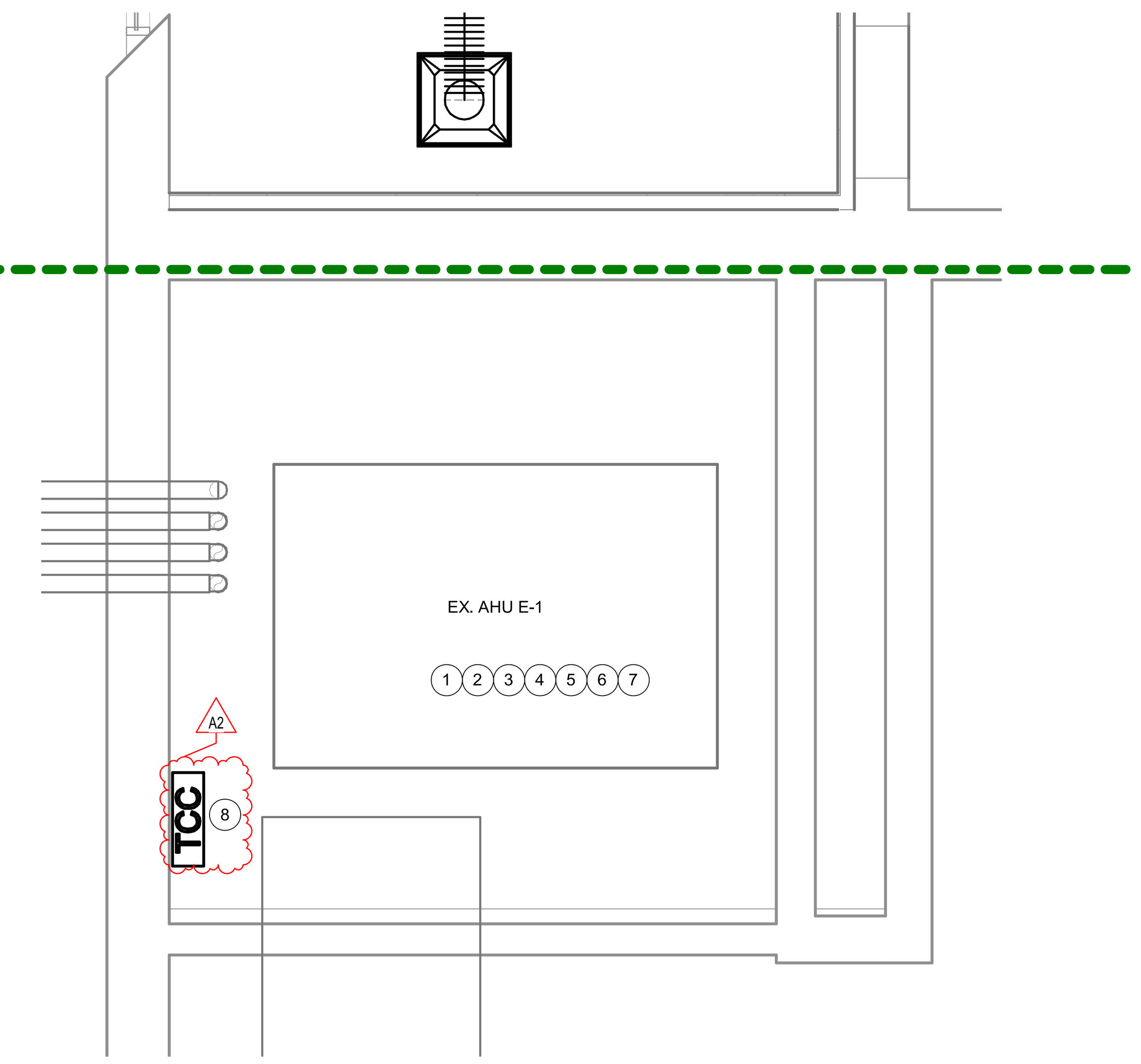
A. DARK LINES INDICATE NEW WORK.

B. LIGHT SOLID LINES INDICATE EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, AND/OR MECHANICAL ACCESSORIES TO REMAIN AS-IS. CONTRACTOR TO FIELD VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO BIDDING.

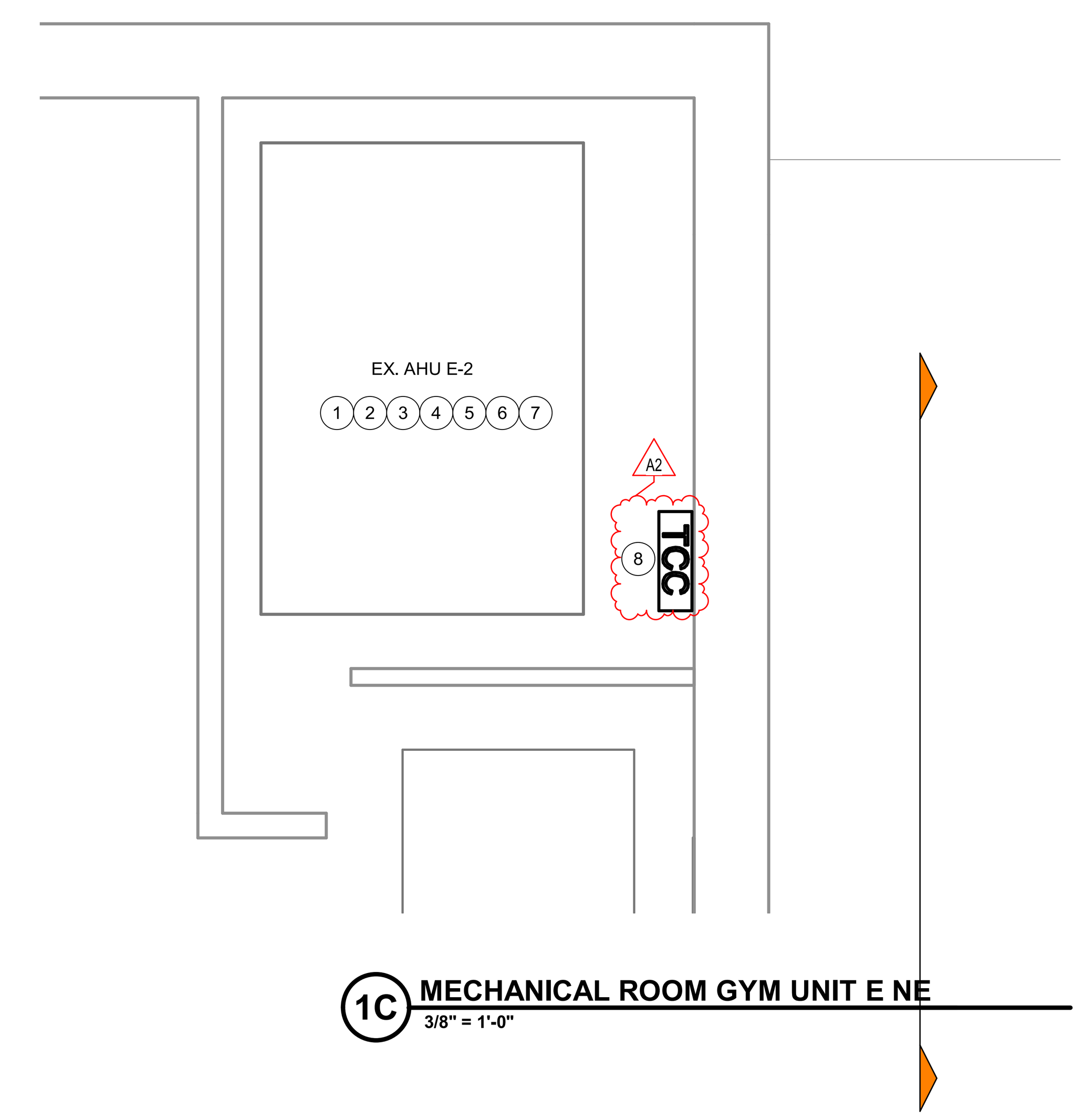
C. IN AREAS OF ARCHITECTURAL CEILING REPLACEMENT OR ADJUSTMENTS, CLEAN AND ADJUST EXISTING MECHANICAL DIFFUSERS, REGISTERS, AND/OR GRILLES TO NEW CEILING GRID. TYPICAL OF ALL AREAS WITH CEILINGS THAT HAVE BEEN ALTERED IN THIS PHASE.

ENLARGED COMBINED PLAN NOTES

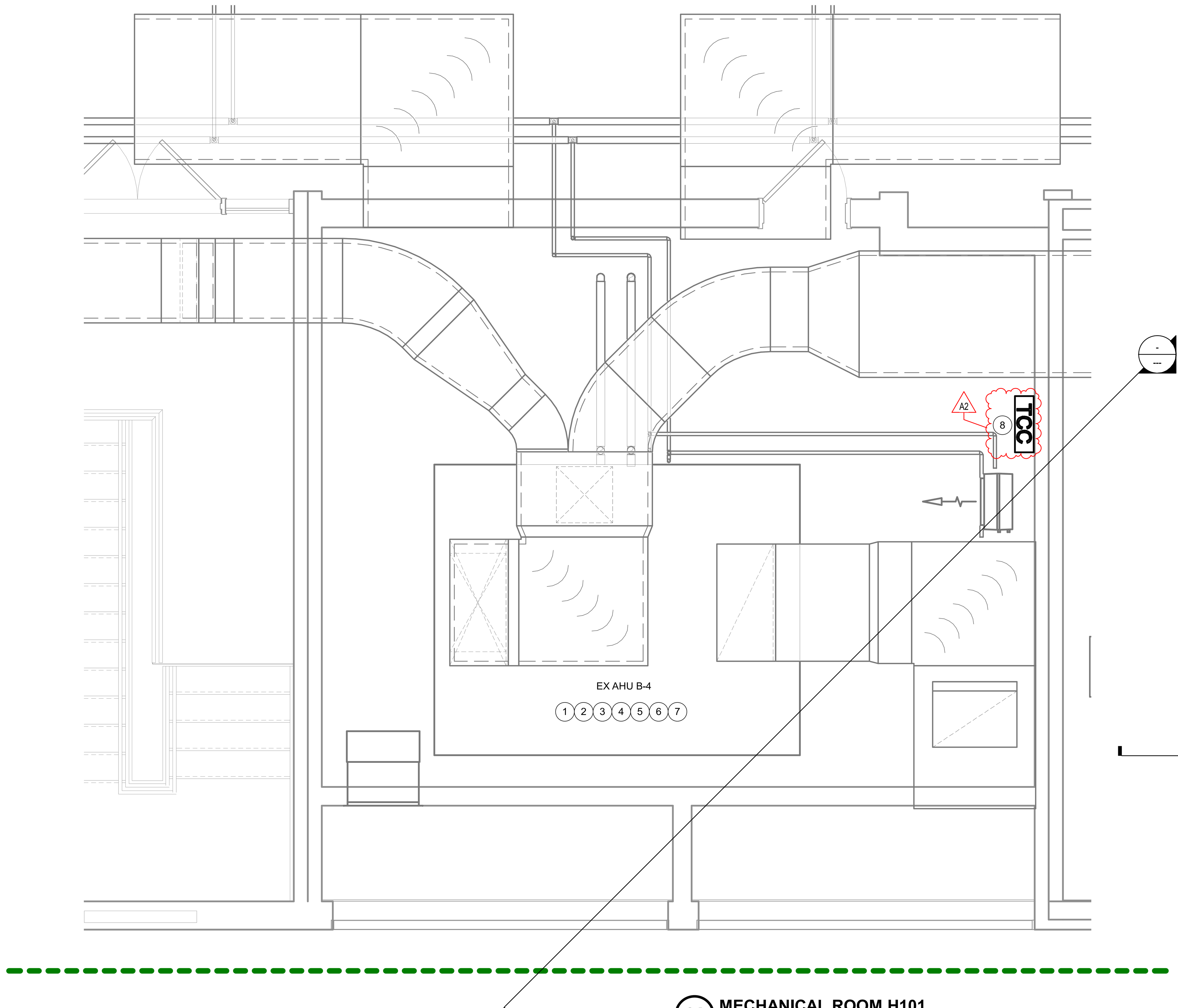
#	NOTE
1	THOROUGHLY CLEAN HEATING COIL, COOLING COIL, CONDENSATE PANS, AND DRAINS IN THE AIR HANDLER. CLEAN FAN ASSEMBLY AND CHECK FOR ANY STRUCTUAL ISSUES. REPORT ANY DISCREPANCIES TO THE OWNER.
2	REPLACE ALL BELTS IN AIR HANDLING UNIT. ENSURE ALIGNMENT IS EFFICIENT.
3	VERIFY COIL PERFORMANCES BY DELTA T AND RECORD. VERIFY MOTOR AMP DRAW AND RECORD. REPORT DATA AND ANY DISCREPANCIES TO OWNER.
4	INSPECT PIPING, INSULATION, AND HAND VALVES FOR ANY ISSUES. INSPECT AHU CONNECTED DUCTWORK AND INSULATION FOR ANY ISSUES THAT WILL NEED TO BE ADDRESSED. REPORT ANY DISCREPANCIES TO OWNER.
5	INSPECT AHU DOORS AND INSULATION FOR DAMAGE. REPAIR ANY BROKEN OR COMPROMISED HINGES, DOORS, HANDLES, AND INSULATION.
6	INSPECT COMPLETE DAMPER MECHANISMS FOR REPAIR OPPORTUNITIES. REPORT ANY DISCREPANCIES TO OWNER.
7	COMPLETE VFD PREVENTATIVE MAINTENANCE LIST WITH FULLER.
8	EXISTING TO REMAIN TEMPERATURE CONTROL PANEL



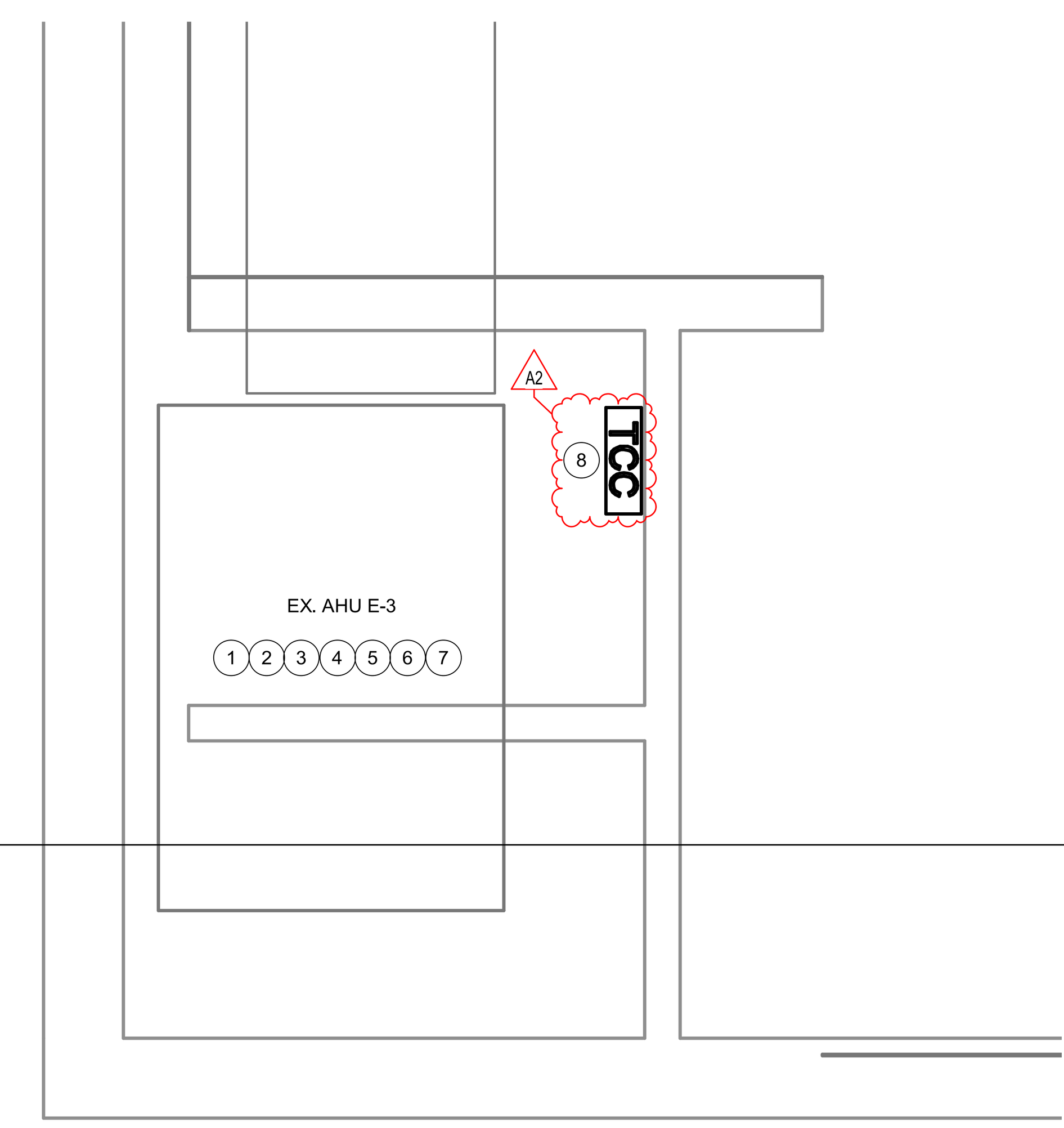
3C MECHANICAL ROOM GYM UNIT E NW
3/8" = 1'-0"



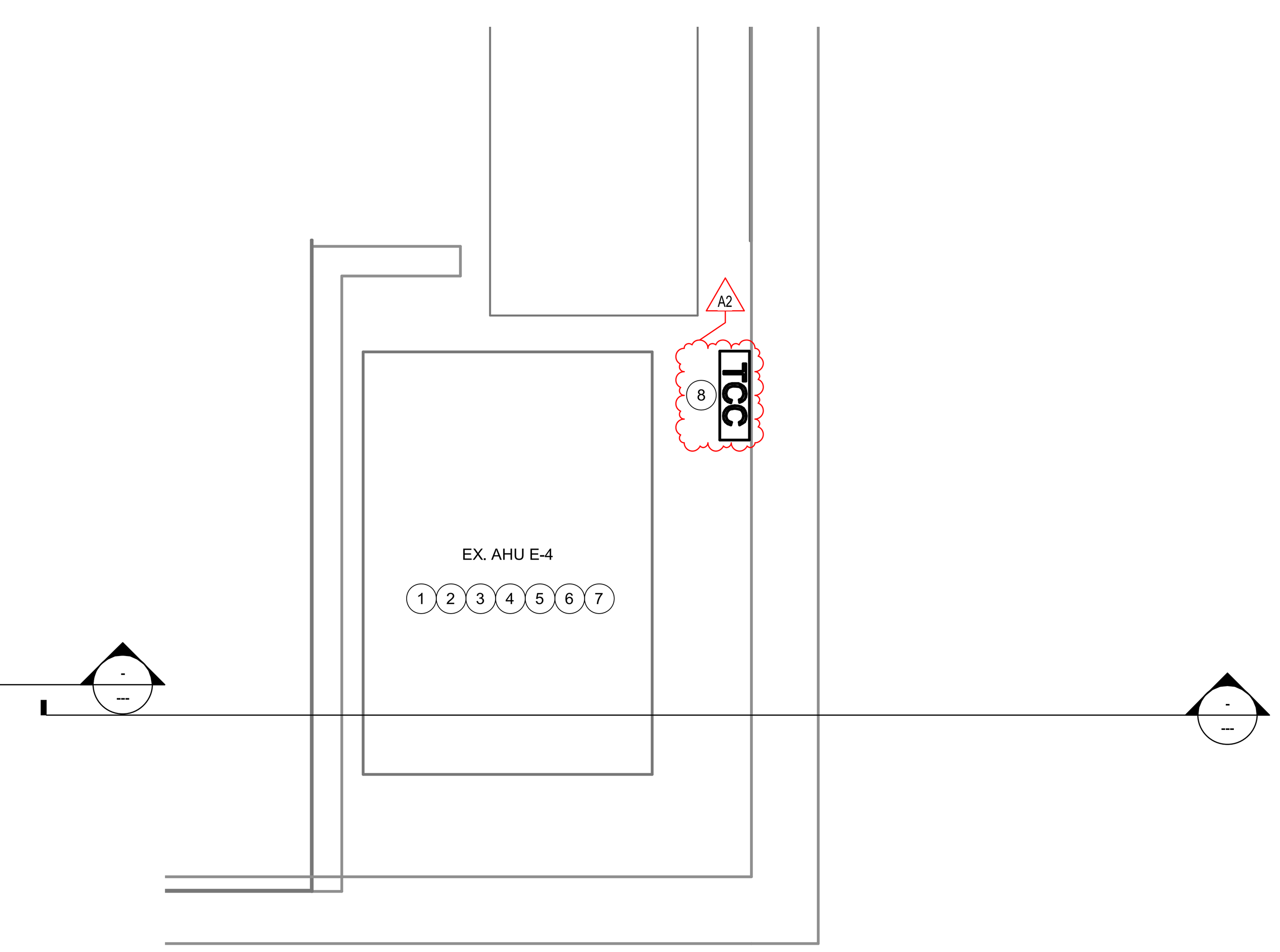
1C MECHANICAL ROOM GYM UNIT E NE
3/8" = 1'-0"



4A MECHANICAL ROOM H101
3/8" = 1'-0"



3A MECHANICAL ROOM GYM UNIT E SW
3/8" = 1'-0"



1A MECHANICAL ROOM GYM UNIT E SE
3/8" = 1'-0"

SCHMIDT ASSOCIATES
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Project No. 2019-067.WSC
Project Date 07.31.2024
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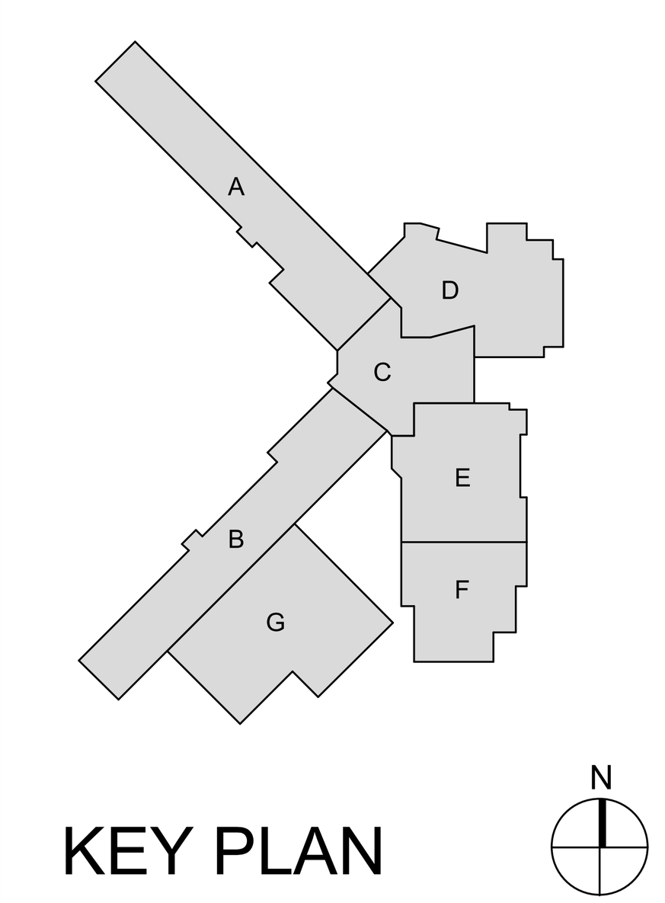
SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date
A2	ADDENDUM #2	08.29.2024

8401 Westfield Blvd
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

ENLARGED MECHANICAL ROOM PLAN

M-404

GENERAL HVAC NOTES

A. DARK LINES INDICATE NEW WORK.

B. LIGHT SOLID LINES INDICATE EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, AND/OR MECHANICAL ACCESSORIES TO REMAIN AS-IS. CONTRACTOR TO FIELD VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO BIDDING.

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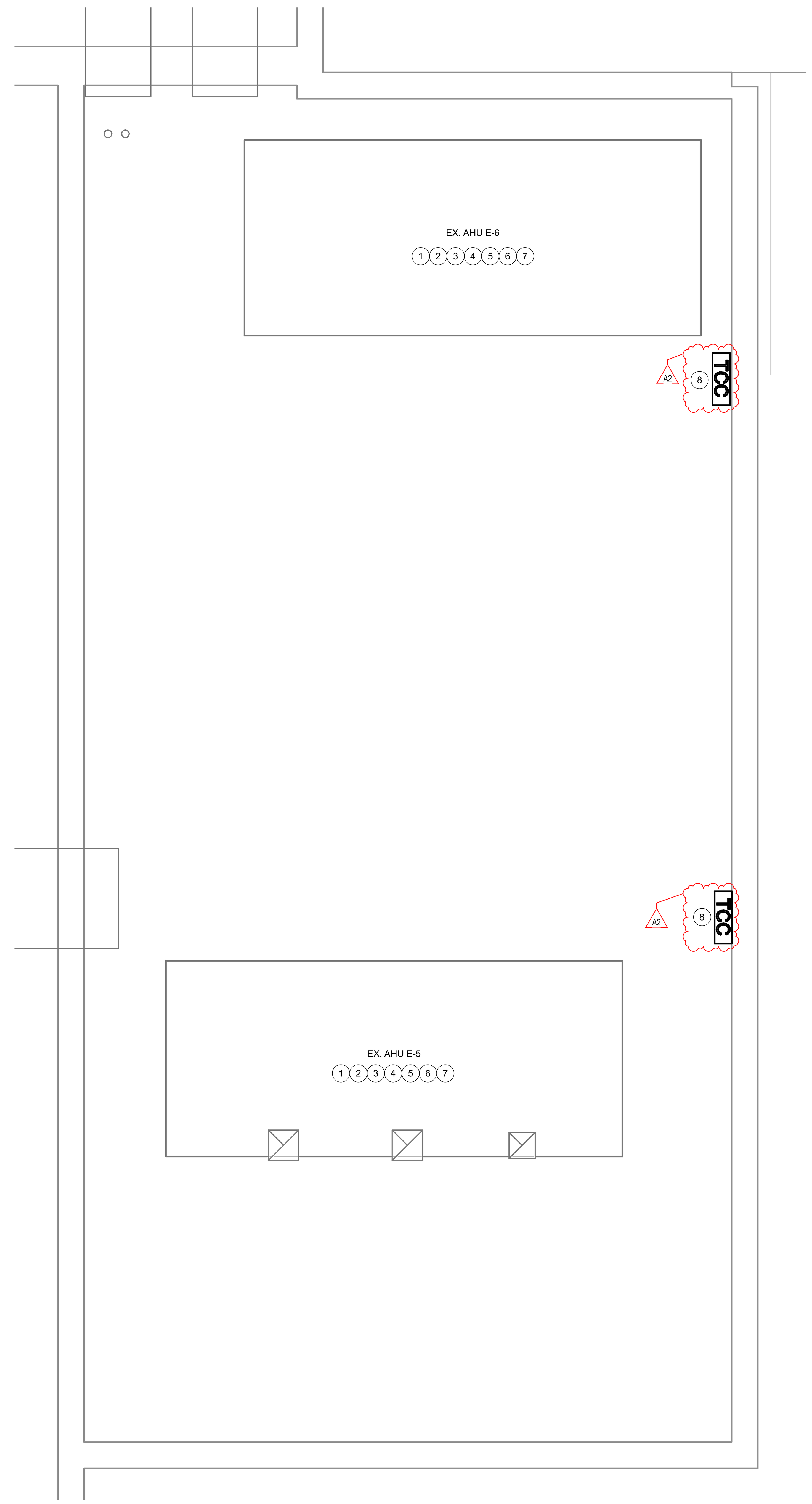
7	COMPLETE VFD PREVENTATIVE MAINTENANCE LIST WITH FULLER.
8	EXISTING TO REMAIN TEMPERATURE CONTROL PANEL



2A MECHANICAL ROOM UNIT F SECOND FLOOR
3/8" = 1'-0"

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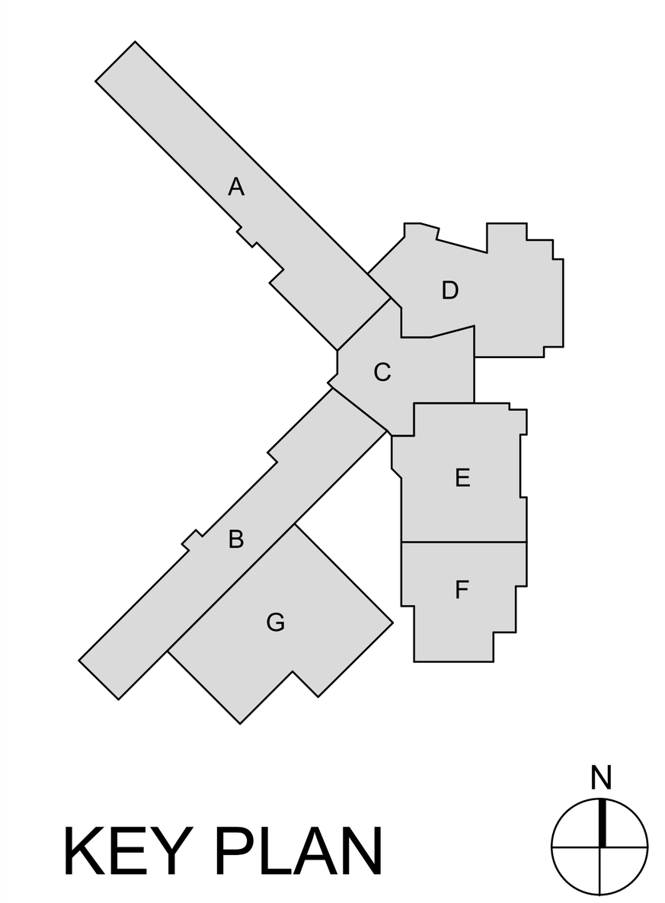
Project No. 2019-067.WSC
Project Date 07.31.2024
Produced PFS

SARAH KATHLEEN HEMPSTEAD REGISTERED ARCHITECT No. AR10400134 STATE OF INDIANA

#	Revision	Date
A2	ADDENDUM #2	08.29.2024

8401 Westfield Blvd
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

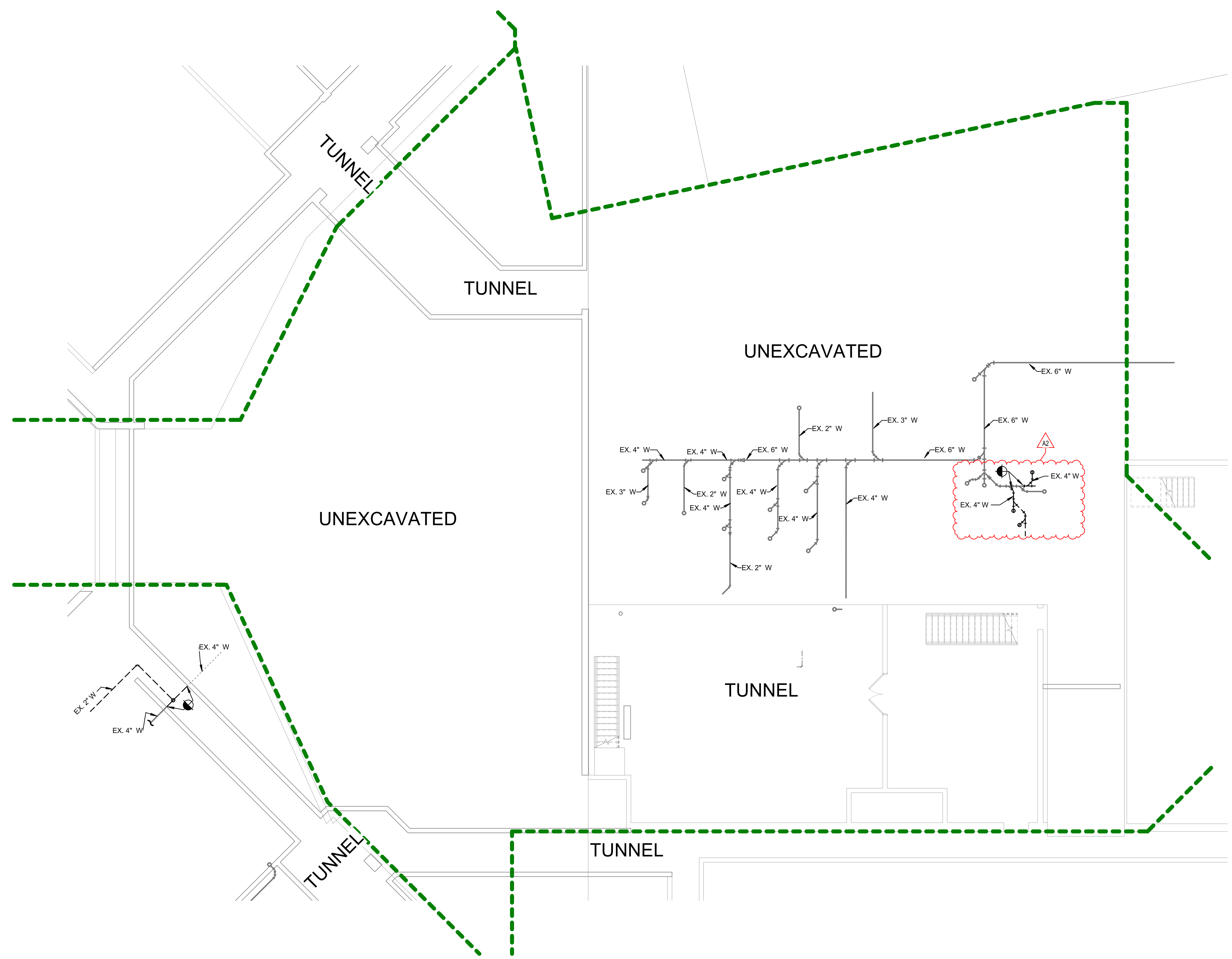
SERVICES CENTER RENOVATION - PHASE 6B

ENLARGED MECHANICAL ROOM PLAN

M-405

PLUMBING GENERAL NOTES

1. EXISTING PIPE ROUTING, AS SHOWN ON DRAWINGS, IS BASED UPON RECORD DOCUMENTS AND FIELD SURVEYS. ACTUAL ROUTE OF CONCEALED PIPING MAY VARY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY PIPE ROUTING PRIOR TO SAW CUTTING OF FLOOR SLABS.
2. CONTRACTOR SHALL JET AND THOROUGHLY FLUSH EXISTING SANITARY SEWERS WHERE DOCUMENTS CALL FOR NEW WASTE PIPE CONNECTIONS.
3. ALL UNDERGROUND SANITARY OR STORM PIPING SHOWN TO BE ABANDONED IN PLACE SHALL BE CAPPED AND FILLED WITH FLOWABLE FILL.
4. WHERE PLUMBING FIXTURE ROUGH-IN PIPING IS SHOWN TO BE ABANDONED IN WALLS OR BELOW FLOOR SLAB, ROUGH-INS SHALL BE REMOVED TO A POINT BEYOND THE FINISHED SURFACE AND CAPPED. PATCH SURFACE TO MATCH EXISTING FINISH.
5. IN AREAS WHERE A FULL REMODEL IS INDICATED ON THE DRAWINGS, CONTRACTOR SHALL REMOVE ALL OVERHEAD PIPING AND HANGERS COMPLETE UNLESS OTHERWISE INDICATED.



2A DEMOLITION FOUNDATION/TUNNEL PLUMBING PLAN - UNIT C
1/8" = 1'-0"

SCHMIDT
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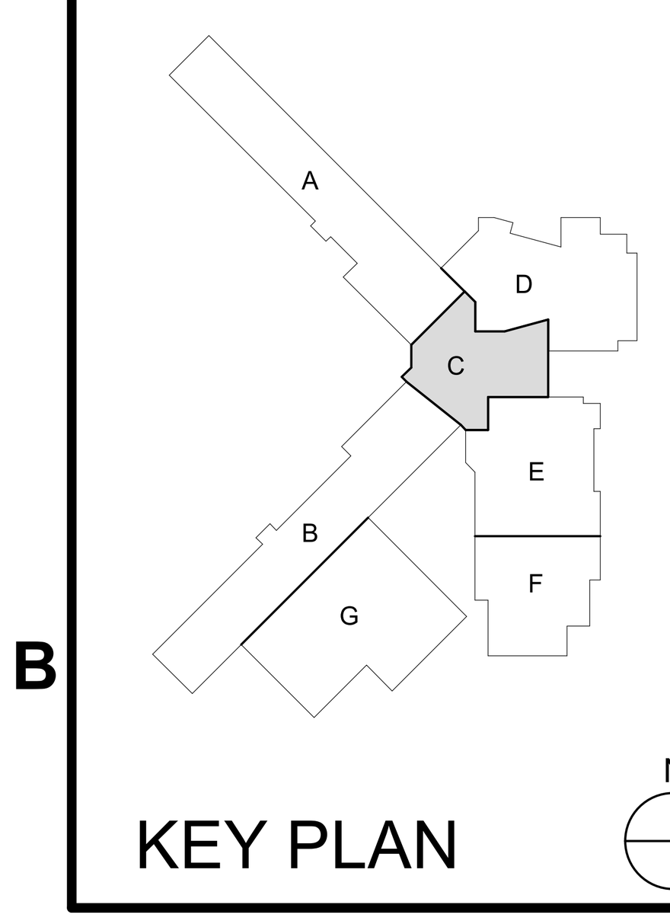
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.WSC
Project Date 07.31.2024
Produced MJS / JH

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A2	ADDENDUM #2	08.29.2024

8401 Westfield Blvd
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

WASHINGTON
TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

A2

DEMOLITION FOUNDATION/TUNNEL PLUMBING PLANS - UNIT C

PDFC1

PLUMBING GENERAL NOTES

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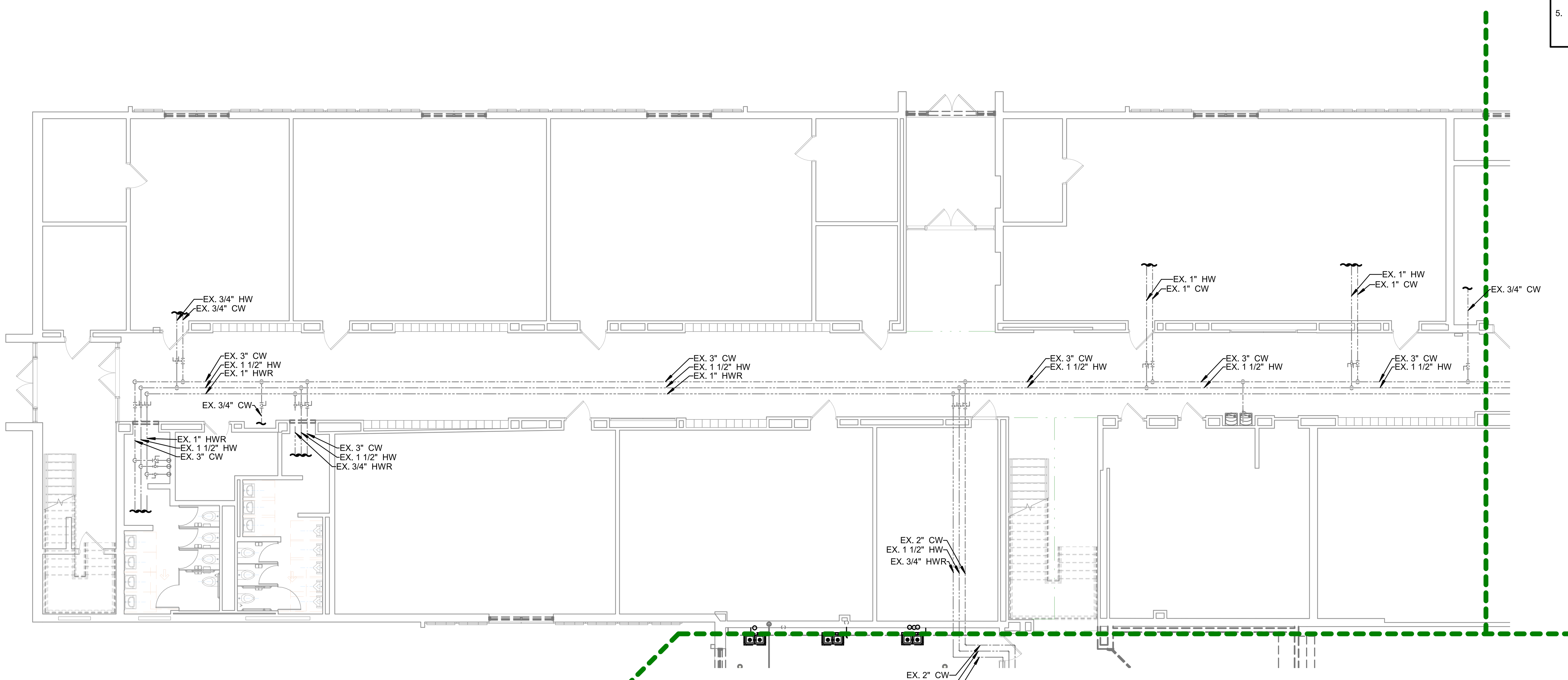
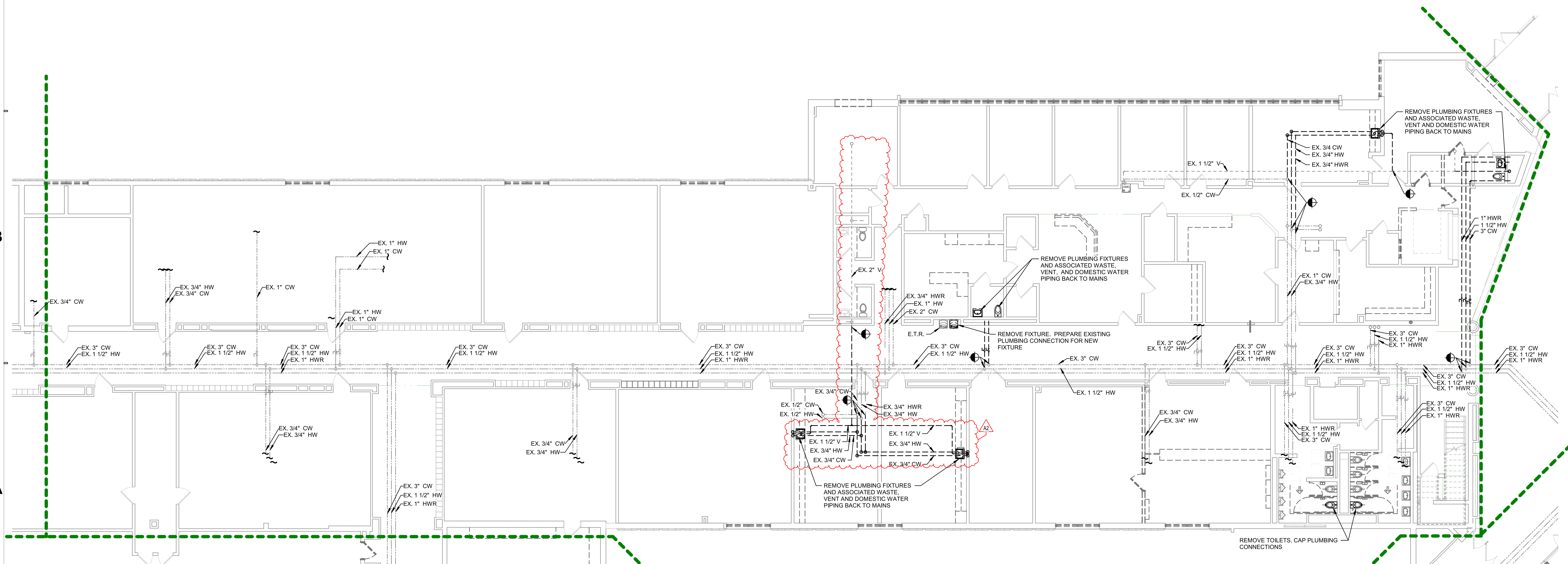


2C DEMOLITION FIRST FLOOR PLUMBING PLAN - UNIT B.2
1/8" = 1'-0"



1A DEMOLITION FIRST FLOOR PLUMBING PLAN - UNIT B.1
1/8" = 1'-0"

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www.schmidt-arch.com

Project No. 2019-067.WSC
Project Date 07.31.2024
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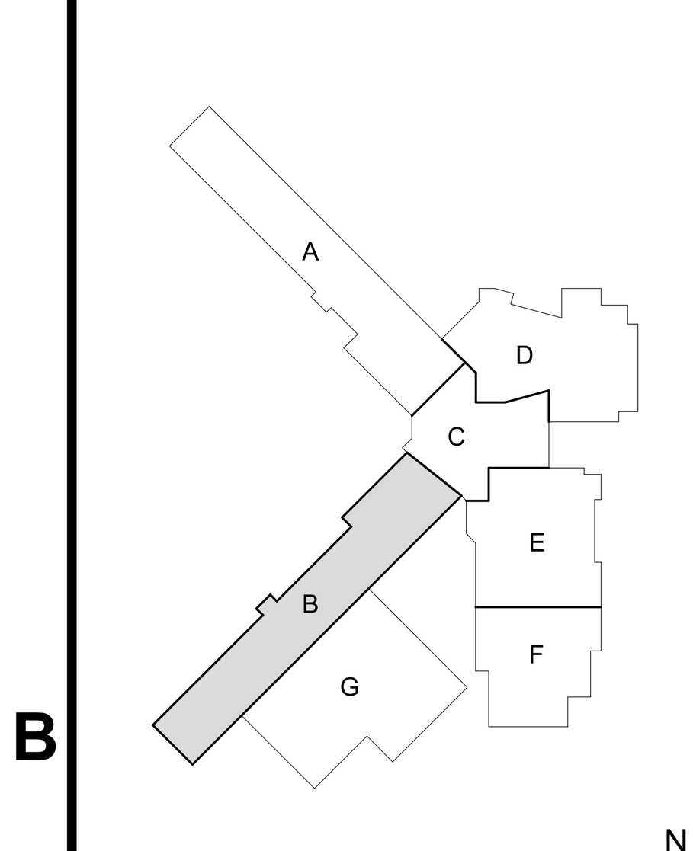
SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A2	ADDENDUM #2	08.29.2024

8401 Westfield Blvd
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

DEMOLITION FIRST FLOOR PLUMBING PLANS - UNIT B

PD1B1

PLUMBING GENERAL NOTES

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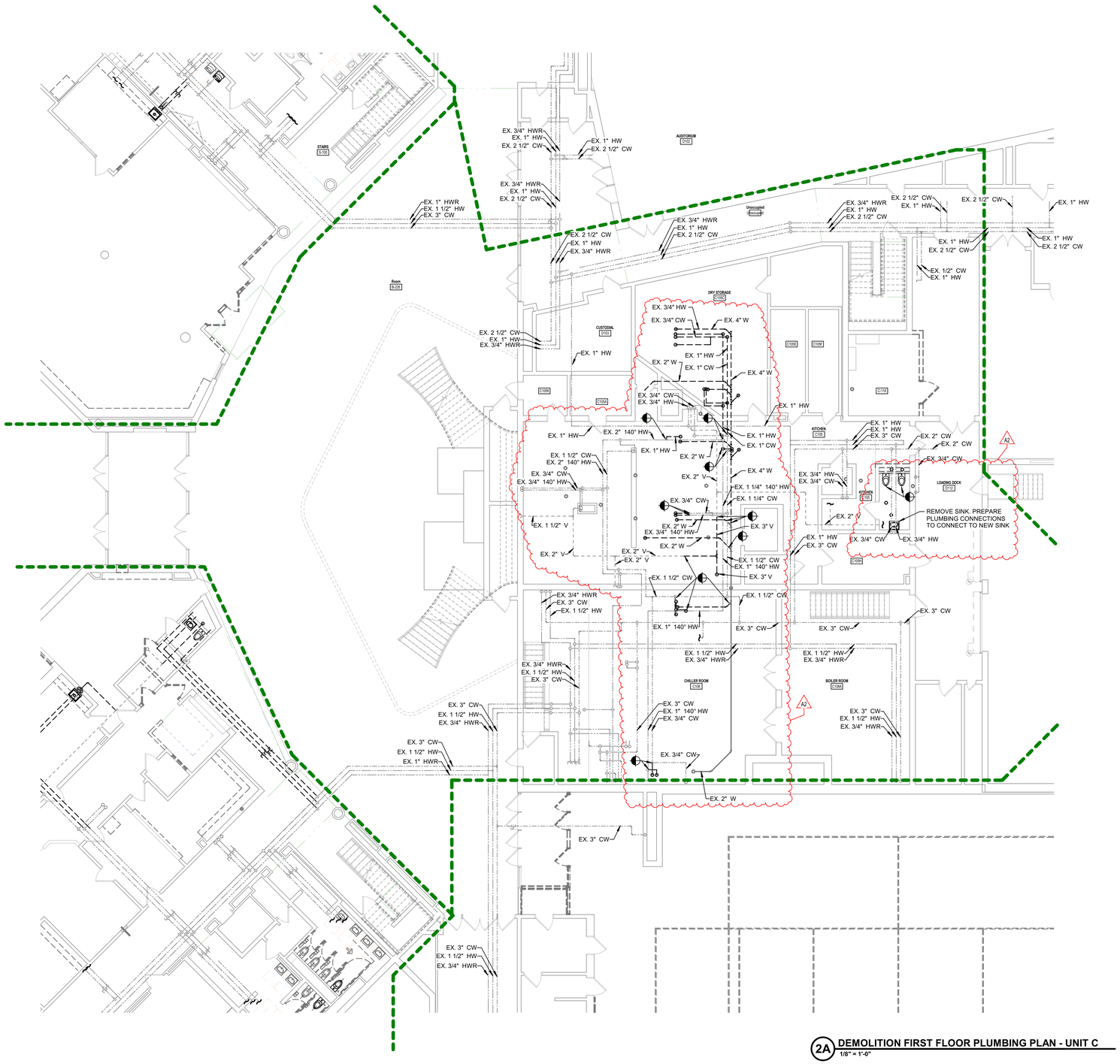

2A **DEMOLITION FIRST FLOOR PLUMBING PLAN - UNIT C**
1/8" = 1'-0"

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415 Massachusetts Avenue
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Project No. 2019-067.WSC
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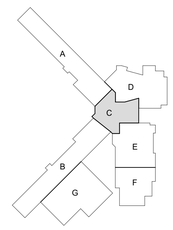
SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

Sarah K Hempstead

#	Revision	Date
A2	ADDENDUM #2	08.29.2024

8401 Westfield Blvd
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

DEMOLITION FIRST FLOOR PLUMBING PLANS - UNIT C

PD1C1

PD1C1_DEMOLITION FIRST FLOOR PLUMBING PLANS - UNIT C
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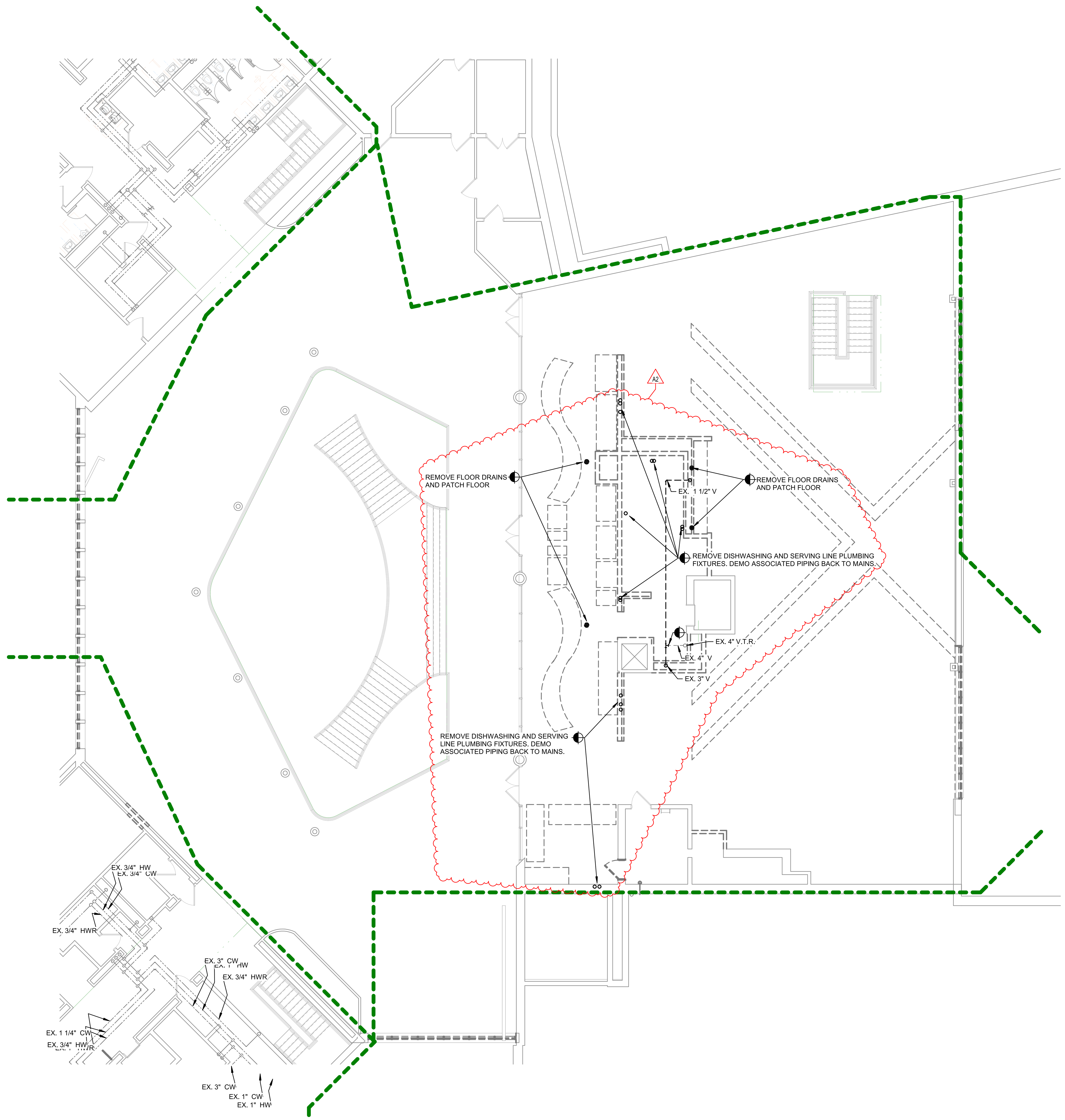

2A DEMOLITION SECOND FLOOR PLUMBING PLAN - UNIT C
1/8" = 1'-0"

PLUMBING GENERAL NOTES

1. EXISTING PIPE ROUTING, AS SHOWN ON DRAWINGS, IS BASED UPON RECORD DOCUMENTS AND FIELD SURVEYS. ACTUAL ROUTE OF CONCEALED PIPING MAY VARY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY PIPE ROUTING PRIOR TO SAW CUTTING OF FLOOR SLABS.
2. CONTRACTOR SHALL JET AND THOROUGHLY FLUSH EXISTING SANITARY SEWERS WHERE DOCUMENTS CALL FOR NEW WASTE PIPE CONNECTIONS.
3. ALL UNDERGROUND SANITARY OR STORM PIPING SHOWN TO BE ABANDONED IN PLACE SHALL BE CAPPED AND FILLED WITH FLOWABLE FILL.
4. WHERE PLUMBING FIXTURE ROUGH-IN PIPING IS SHOWN TO BE ABANDONED IN WALLS OR BELOW FLOOR SLAB, ROUGH-INS SHALL BE REMOVED TO A POINT BEYOND THE FINISHED SURFACE AND CAPPED. PATCH SURFACE TO MATCH EXISTING FINISH.
5. IN AREAS WHERE A FULL REMODEL IS INDICATED ON THE DRAWINGS, CONTRACTOR SHALL REMOVE ALL OVERHEAD PIPING AND HANGERS COMPLETE UNLESS OTHERWISE INDICATED.

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A2	ADDENDUM #2	08.29.2024

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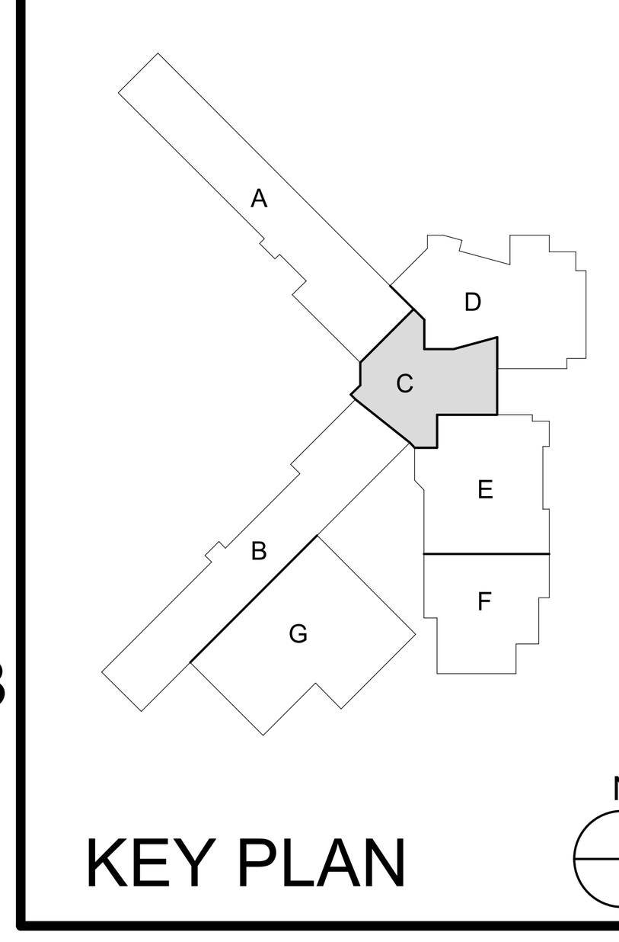

KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

DEMOLITION SECOND FLOOR PLUMBING PLANS - UNIT C

PD1C2

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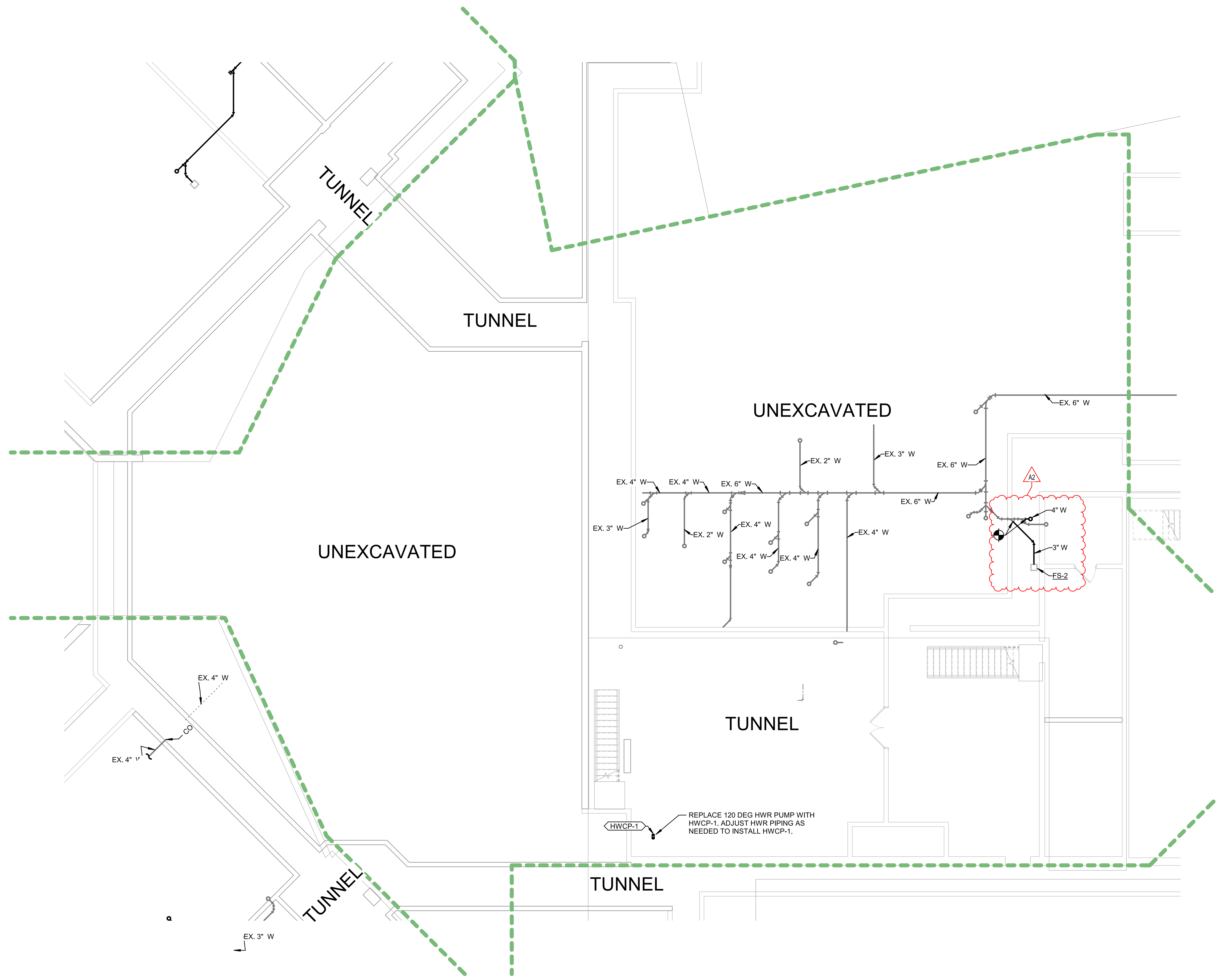

2A FOUNDATION/TUNNEL PLUMBING PLAN - UNIT C
1/8" = 1'-0"

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415 Massachusetts Avenue
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SARAH KATHLEEN HEMPSTEAD REGISTERED ARCHITECT NO. AR10400134 STATE OF INDIANA

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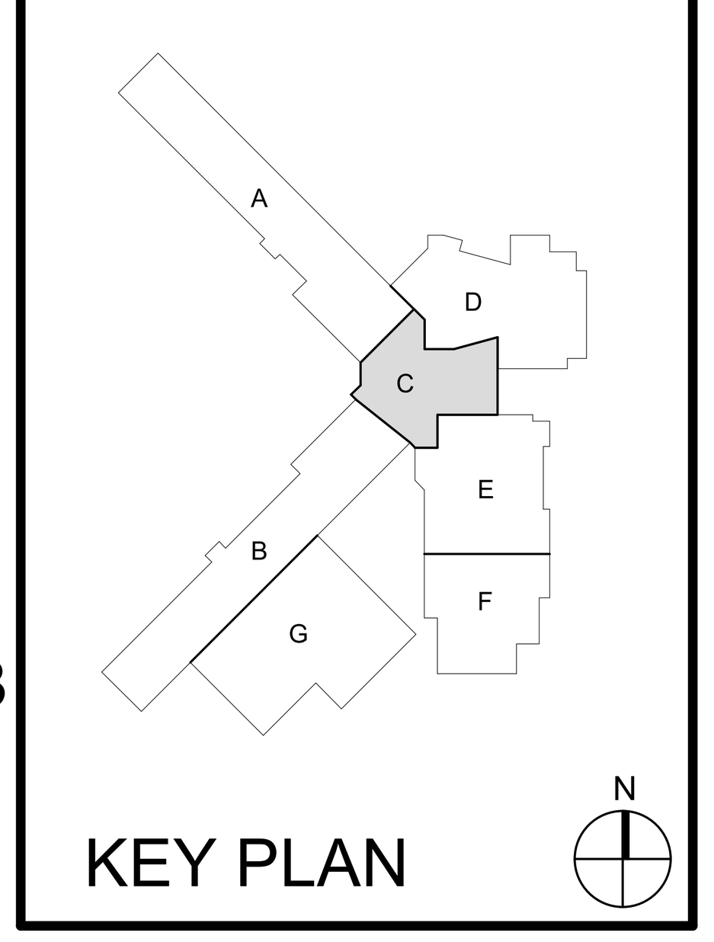
A2	ADDENDUM #2	08.29.2024

8401 Westfield Blvd
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

FOUNDATION/TUNNEL PLUMBING PLANS - UNIT C

PF1C1

PLUMBING GENERAL NOTES

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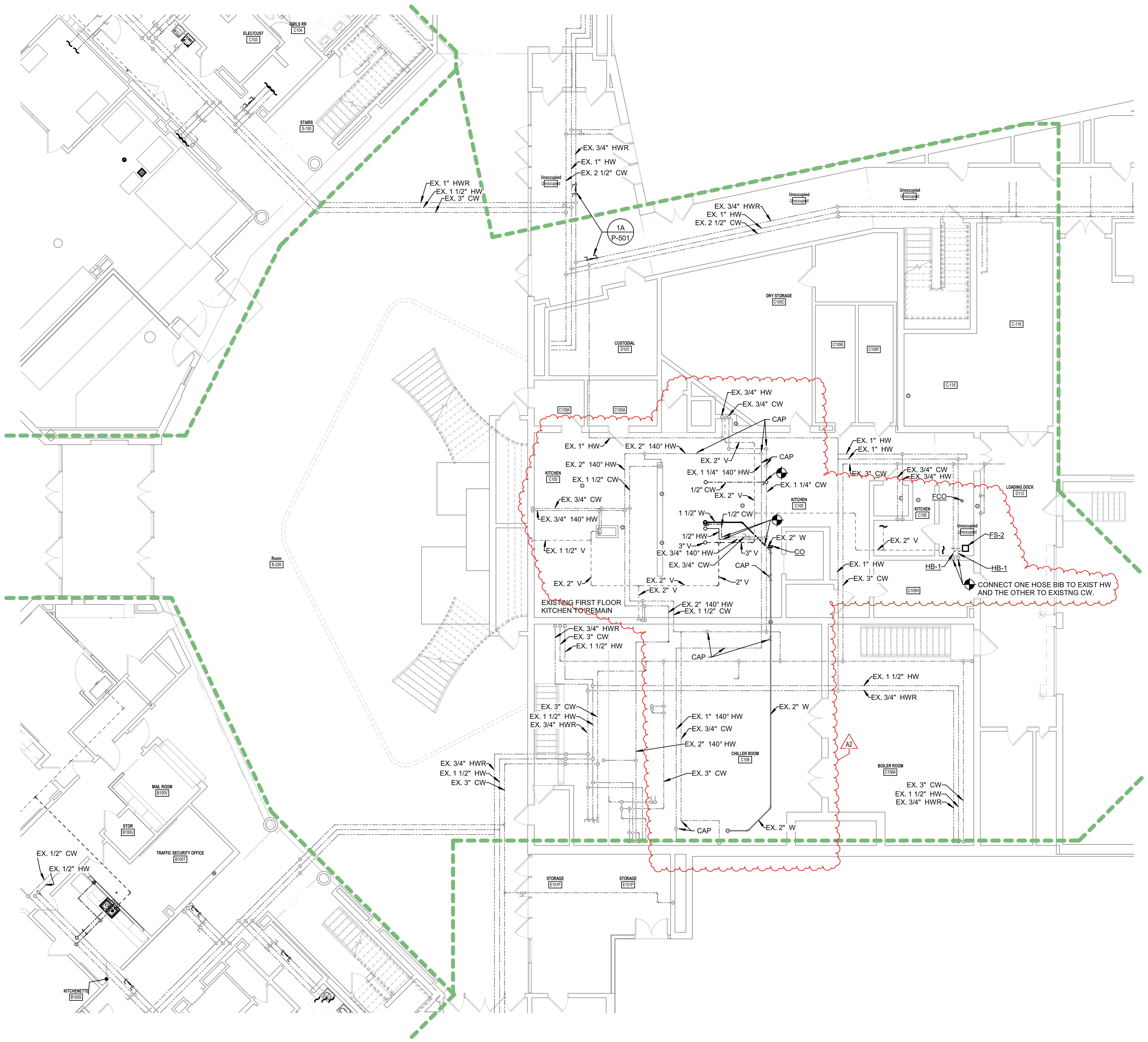

2A FIRST FLOOR PLUMBING PLAN - UNIT C
1/8" = 1'-0"

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Indianapolis, IN 46204
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8401 Westfield Blvd
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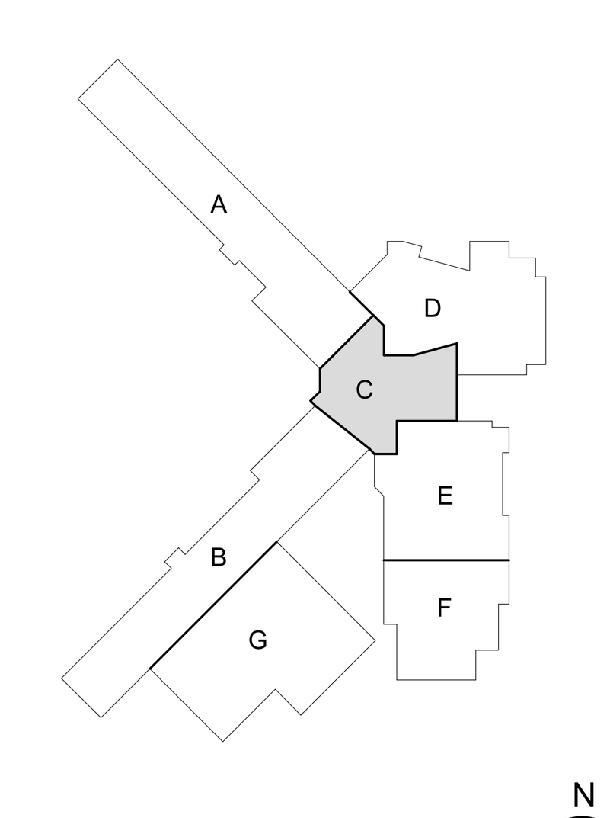

KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

FIRST FLOOR PLUMBING PLANS - UNIT C

PP1C1

PLUMBING GENERAL NOTES

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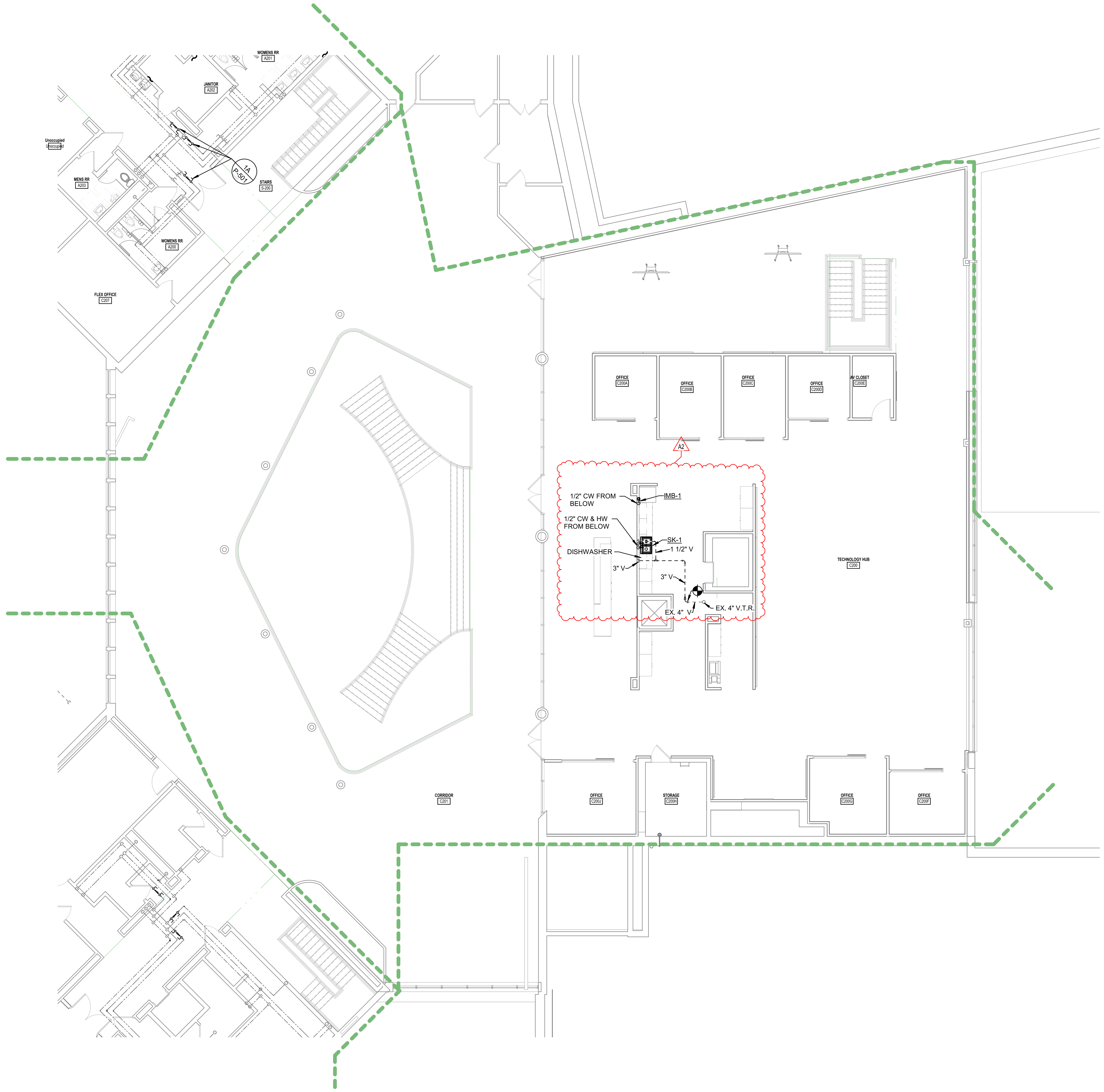


2A SECOND FLOOR PLUMBING PLAN - UNIT C
1/8" = 1'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.WSC
Project Date 07.31.2024
Produced MJS / JH

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A2	ADDENDUM #2	08.29.2024

8401 Westfield Blvd
Indianapolis, IN 46240

KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

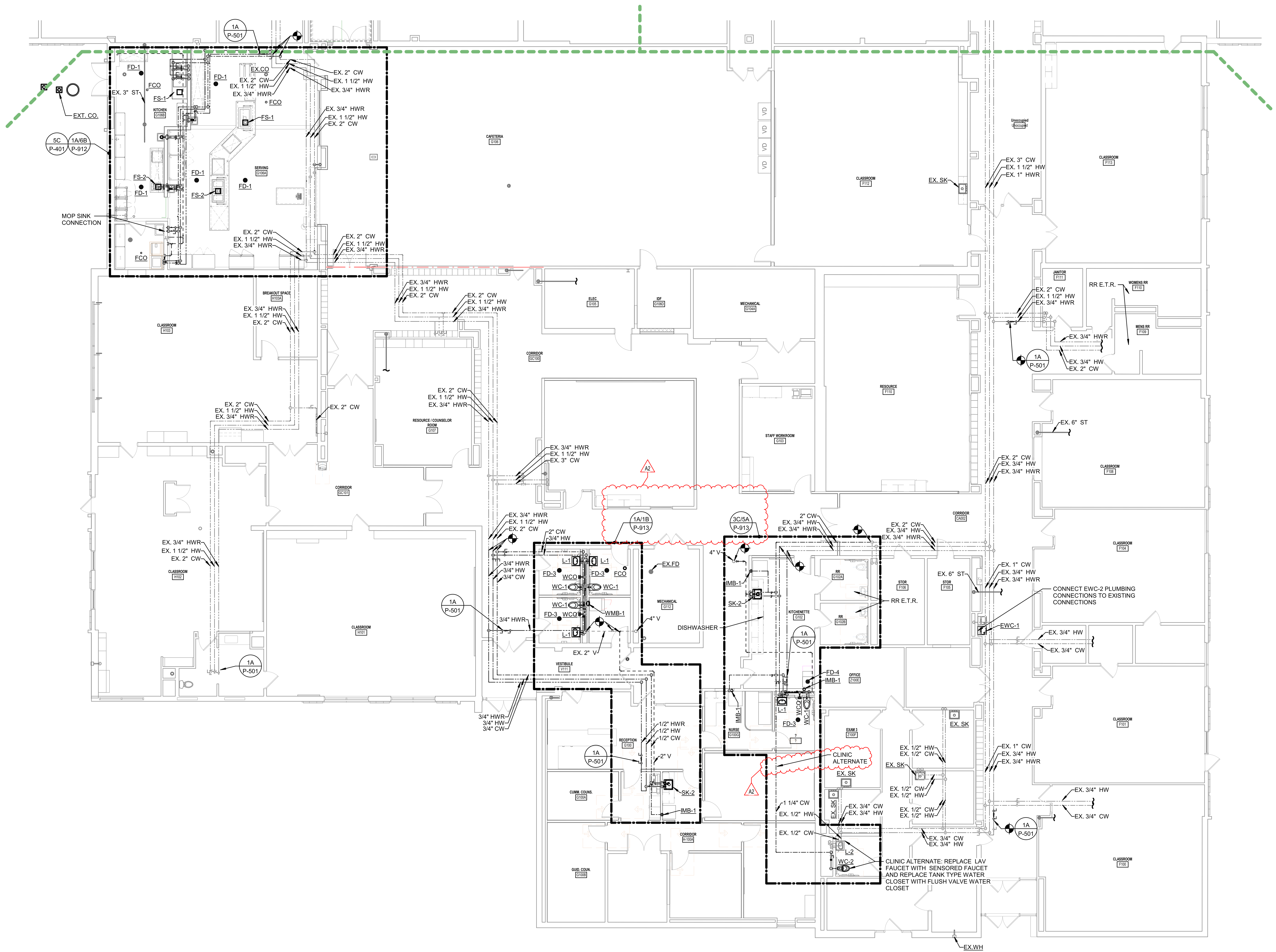
SERVICES CENTER RENOVATION - PHASE 6B

SECOND FLOOR PLUMBING PLANS - UNIT C

PP1C2

PLUMBING GENERAL NOTES

1. EXISTING PIPE ROUTING, AS SHOWN ON DRAWINGS, IS BASED UPON RECORD DOCUMENTS AND FIELD SURVEYS. ACTUAL ROUTE OF CONCEALED PIPING MAY VARY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY PIPE ROUTING PRIOR TO SAW CUTTING OF FLOOR SLABS.
2. CONTRACTOR SHALL JET AND THOROUGHLY FLUSH EXISTING SANITARY SEWERS WHERE DOCUMENTS CALL FOR NEW WASTE PIPE CONNECTIONS.
3. ALL UNDERGROUND SANITARY OR STORM PIPING SHOWN TO BE ABANDONED IN PLACE SHALL BE CAPPED AND FILLED WITH FLOWABLE FILL.
4. WHERE PLUMBING FIXTURE ROUGH-IN PIPING IS SHOWN TO BE ABANDONED IN WALLS OR BELOW FLOOR SLAB, ROUGH-INS SHALL BE REMOVED TO A POINT BEYOND THE FINISHED SURFACE AND CAPPED. PATCH SURFACE TO MATCH EXISTING FINISH.
5. IN AREAS WHERE A FULL REMODEL IS INDICATED ON THE DRAWINGS, CONTRACTOR SHALL REMOVE ALL OVERHEAD PIPING AND HANGERS COMPLETE UNLESS OTHERWISE INDICATED.



2A FIRST FLOOR PLUMBING PLAN - UNIT G
1/8" = 1'-0"

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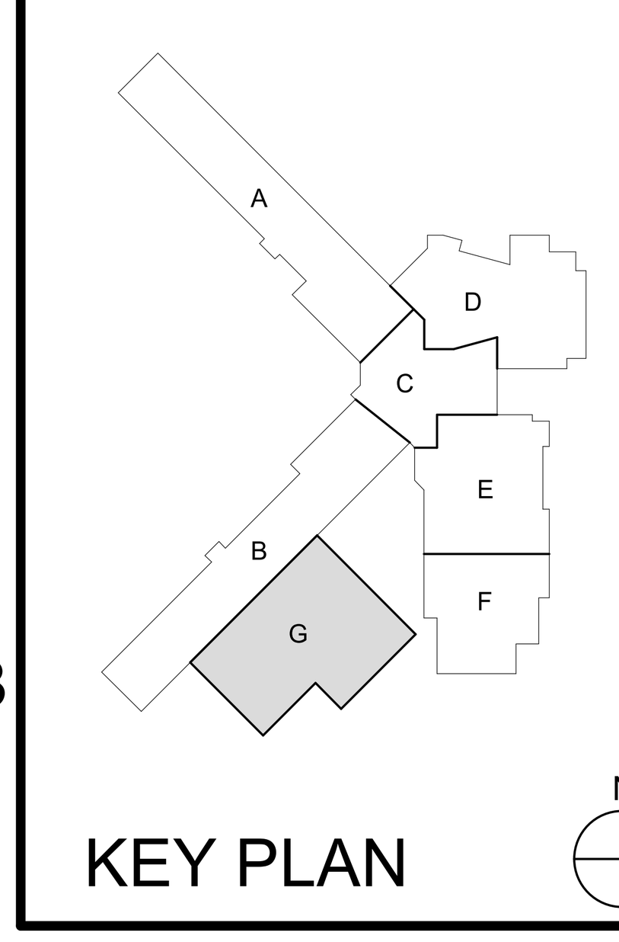


KEY PLAN

M.S.D. of Washington Township

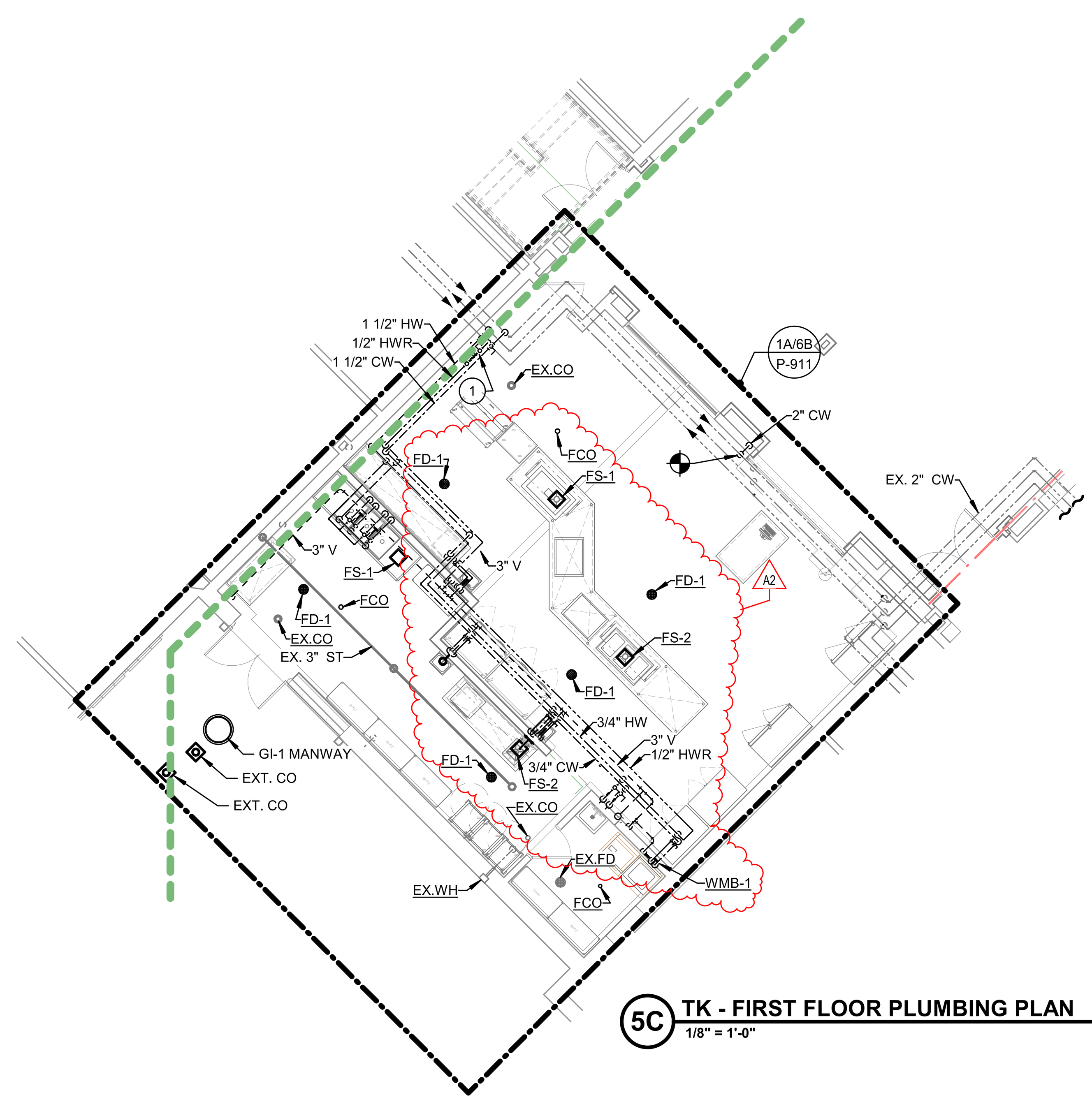
WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

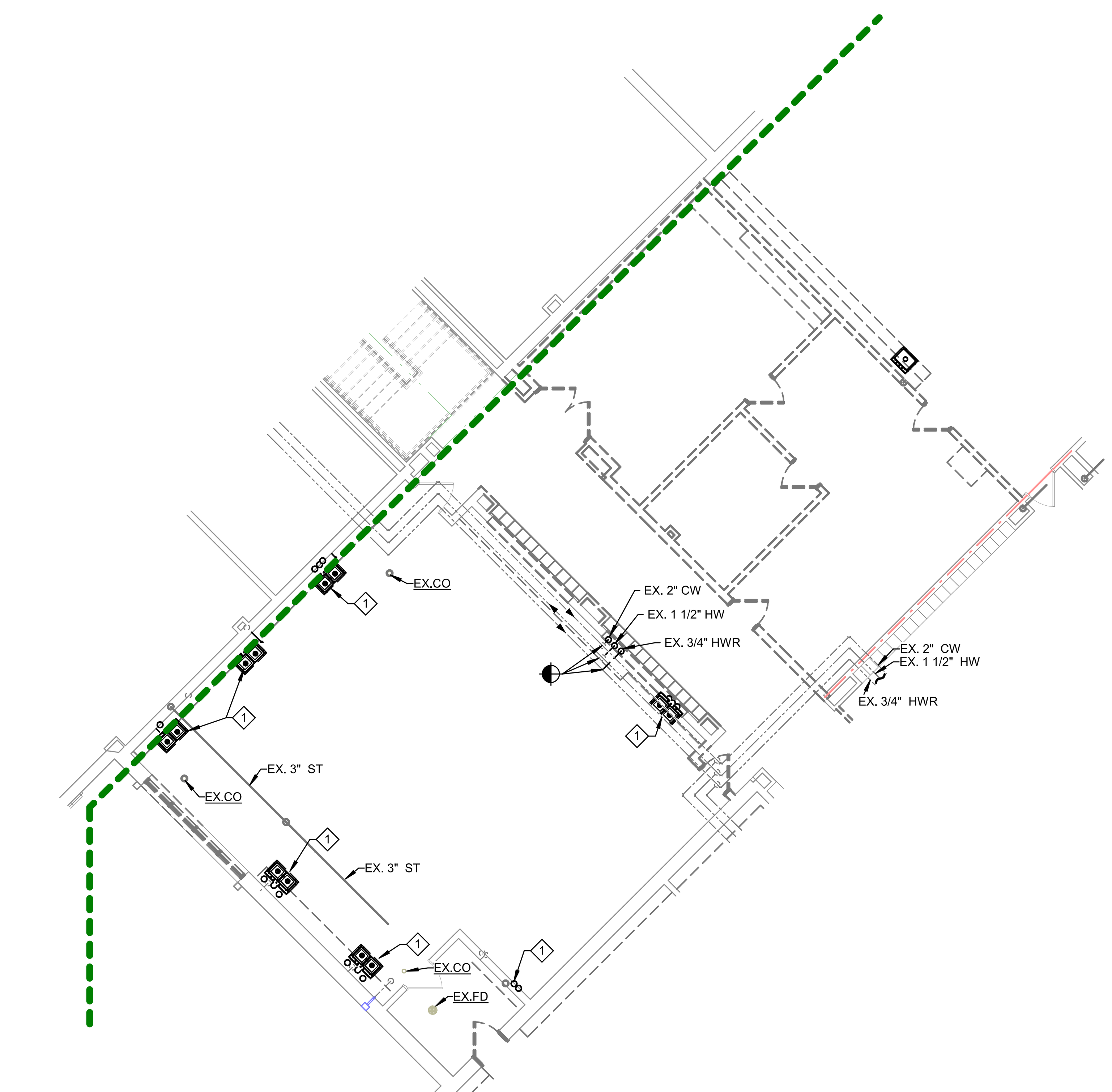
FIRST FLOOR PLUMBING PLANS - UNIT G

PP1G1

6	5	4	3	2	1



5C TK - FIRST FLOOR PLUMBING PLAN
1/8" = 1'-0"



2C TK - DEMOLITION FIRST FLOOR PLUMBING PLAN
1/8" = 1'-0"

PLUMBING GENERAL NOTES

1. EXISTING PIPE ROUTING, AS SHOWN ON DRAWINGS, IS BASED UPON RECORD DOCUMENTS AND FIELD SURVEYS. ACTUAL ROUTE OF CONCEALED PIPING MAY VARY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY PIPE ROUTING PRIOR TO SAW CUTTING OF FLOOR SLABS.
2. CONTRACTOR SHALL JET AND THOROUGHLY FLUSH EXISTING SANITARY SEWERS WHERE DOCUMENTS CALL FOR NEW WASTE PIPE CONNECTIONS.
3. ALL UNDERGROUND SANITARY OR STORM PIPING SHOWN TO BE ABANDONED IN PLACE SHALL BE CAPPED AND FILLED WITH FLOWABLE FILL.
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5. IN AREAS WHERE A FULL REMODEL IS INDICATED ON THE DRAWINGS, CONTRACTOR SHALL REMOVE ALL OVERHEAD PIPING AND HANGERS COMPLETE UNLESS OTHERWISE INDICATED.

DEMOLITION PLAN NOTES

#	NOTE
1	REMOVE FIXTURES IN THIS AREA AND PIPING COMPLETE. DEMOLISH PIPING TO FLOOR AND CAP.
2	CAP WASTE LINE AND FILL ABANDONED PIPE WITH FLOWABLE FILL.
3	CAP WATER LINE AT MAIN AND REMOVE UPSTREAM PIPE.
4	IN THE AREAS WHERE THE CONRETE SLAB IS BEING REMOVED, REMOVE ANY ABANDONED PIPING WITH THE CLAB REMOVAL AREA.

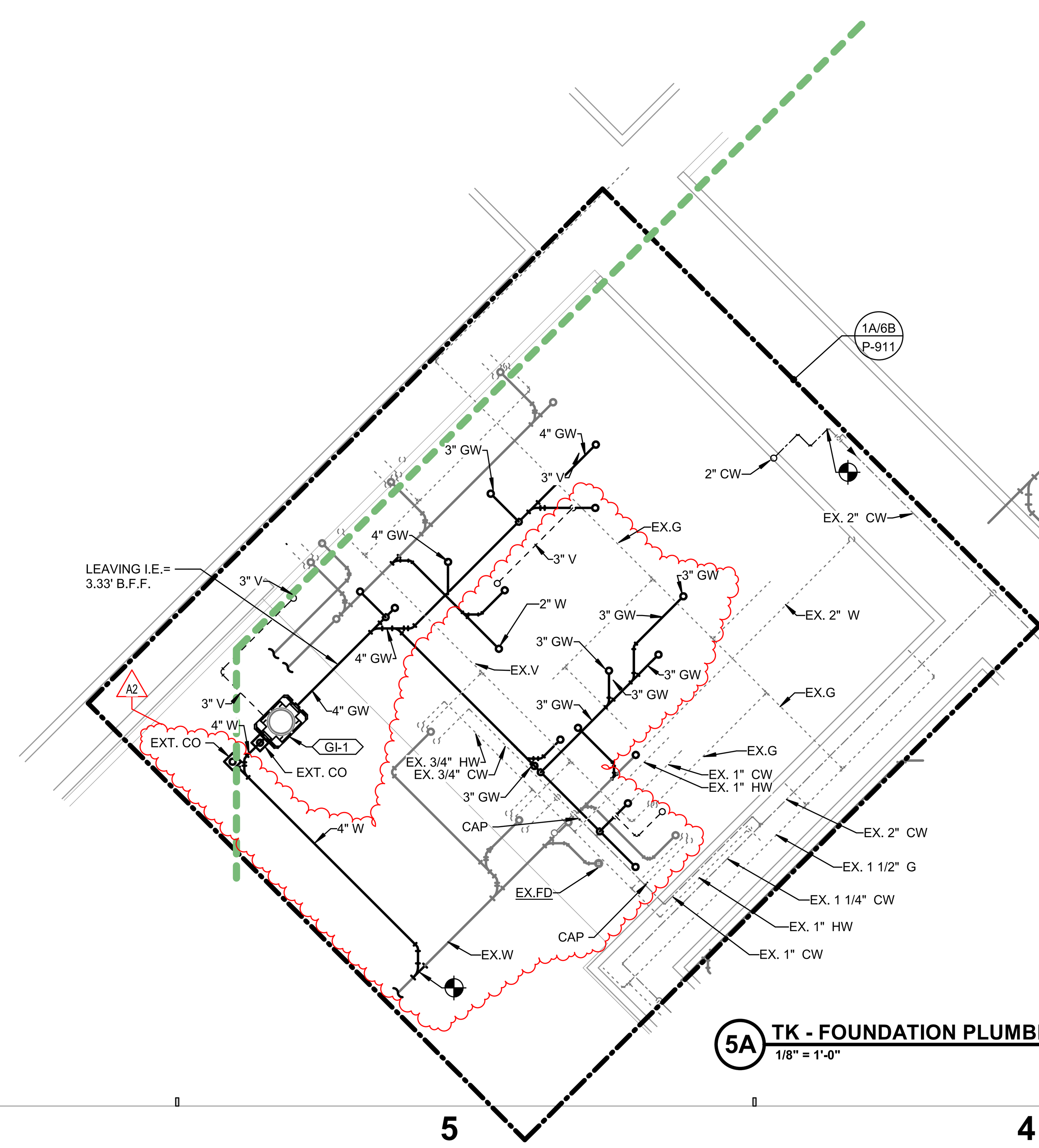
PLUMBING PLAN NOTES

#	NOTE
1	TEST AND BALANCING CONTRACTOR SHALL BALANCE AND ISSUE REPORT FOR THE NEW BALANCING STATION(S) SHOWN IN THIS CONSTRUCTION ZONE ALONG WITH ALL EXISTING CIRCUITS BETWEEN THIS SPACE AND THE CENTRAL PLANT. REBALANCING OF THE ENTIRE BUILDING IS NOT REQUIRED UNDER THIS CONTRACT.

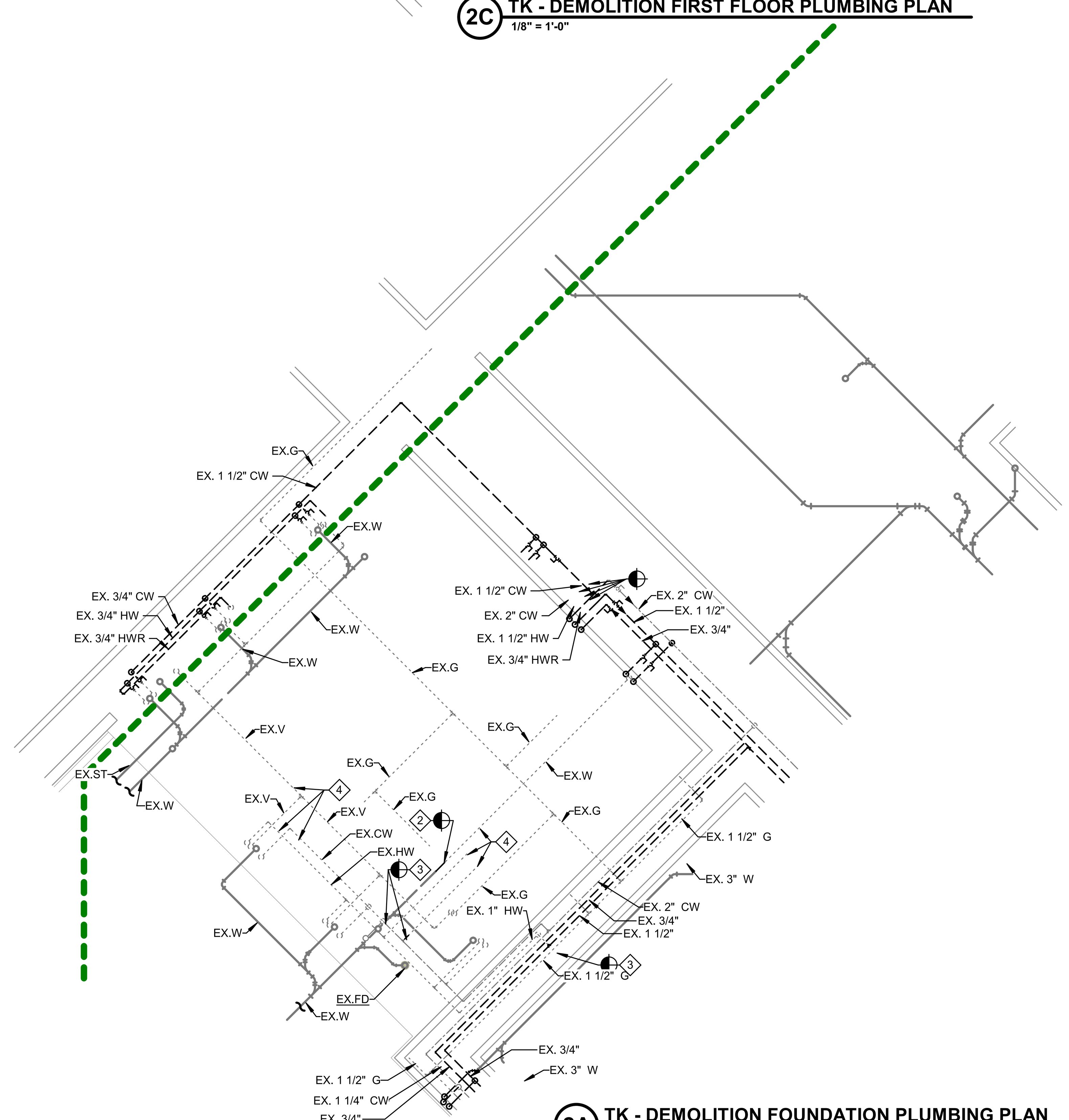
(XX) NOTE REFERENCES K-SERIES DRAWINGS. SEE K-SERIES DRAWINGS FOR ADDITIONAL INFORMATION

PLUMBING FIXTURE ROUGH-IN LEGEND

MARK	FIXTURE CONNECTION CW	HW	W	V
EMEW-1	1/2"			
BF-1	3/4"		1 1/2"	1 1/2"
EWC-1	3/4"		1 1/2"	1 1/2"
FD-1			3"	
FD-3			2"	
FD-4			2"	
FS-1			4"	
FS-2			3"	
L-1	1/2"	1/2"	1 1/2"	1 1/2"
L-2	1/2"	1/2"	1 1/2"	1 1/2"
HB-1	3/4"			
IMB-1	1/2"			
WMB-1	3/4"	3/4"	2"	1 1/2"
SK-1	1/2"	1/2"	1 1/2"	1 1/2"
SK-2	1/2"	1/2"	1 1/2"	1 1/2"
SK-3	1/2"	1/2"	1 1/2"	1 1/2"
WC-1	1"		4"	2"
WC-2	1"		4"	2"



5A TK - FOUNDATION PLUMBING PLAN
1/8" = 1'-0"



2A TK - DEMOLITION FOUNDATION PLUMBING PLAN
1/8" = 1'-0"

6	5	4	3	2	1

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#	Revision	Date
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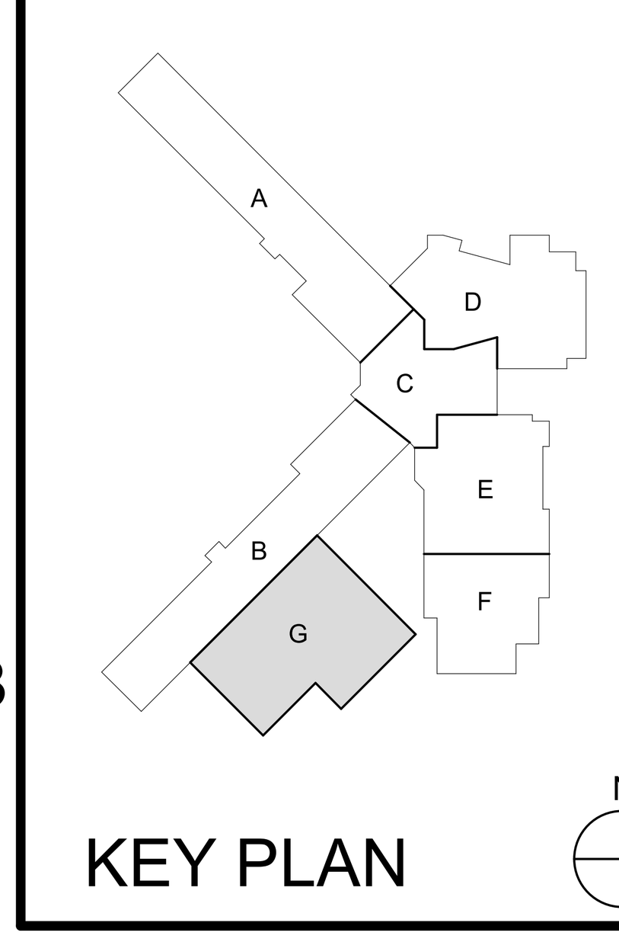


KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

KITCHEN PLUMBING PLANS

P-401

DOMESTIC WATER PIPING SPECIALTIES SCHEDULE (221119)									
IDENTITY DATA				FIXTURE CONNECTION				MOUNTING	
MARK	MANUFACTURER	MODEL	DESCRIPTION	CW	HW	W	V	(FLOOR TO OUTLET)	NOTES
HB-1	ZURN	#Z1341XL	HOSE BIBB	3/4"				24" A.F.F.	
IMB-1	GUY GRAY	#SSIB2AB	ICEMAKER OUTLET BOX	1/2"				24" A.F.F.	
WMB-1	IPS CORPORATION	#SSWB2	CLOTHES WASHER OUTLET BOX	3/4"	3/4"	2"	1 1/2"	42" A.F.F.	

PRESSURE WATER COOLER SCHEDULE (224716)									
FIXTURE				FIXTURE CONNECTION			MOUNTING	ADA	
MARK	MANUFACTURER	MODEL	DESCRIPTION	CW	W	V	(FLOOR TO BUBBLER)	COMPLIANT	NOTES
BF-1	ELKAY	#LZWSM8K	PROVIDES 8.0 GPH OF 50°F WATER. UNIT SHALL BE RECESSED AND CONSTRUCTED OF 18 GUAGE TYPE 300 STAINLESS STEEL AND ABS PLASTIC, SHALL INCLUDE ELECTRONIC SENSOR FOR NO TOUCH LAMINAR FLOW, WATER SENTRY 3000 GALLON FILTER. TRIM: ADJUSTABLE 17 GUAGE CAST BRASS P-TRAP WITH CLEANOUT. 1/2" ANGLE STOP WITH LOOSE KEY HANDLE, 1/2" O.D. SUPPLY RISER.	3/4"	1 1/2"	1 1/2"	38 7/8" TO OUTLET	Yes	
EWC-1	ELKAY	#LVRC8WSK	ELECTRIC WATER COOLER WITH SENSOR-OPERATED BOTTLE FILLER, STAINLESS STEEL	3/4"	1 1/2"	1 1/2"	34"	Yes	OWNER PURCHASED, CONTRACTOR INSTALLED.

A2

A2

COMMERCIAL AND RESIDENTIAL SINKS (224100, 224216.16)																
FIXTURE				TRIM				ACCESSORIES		FIXTURE CONNECTION				MOUNTING	ADA	
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	OPERATION	GPM	STRAINER	GARBAGE DISPOSER	CW	HW	W	V	(FLOOR TO RIM)	COMPLIANT	NOTES
SK-1	ELKAY	#LRAD332265	STAINLESS STEEL, TWO BOWLS, COUNTER MOUNTED SINK	CHICAGO FAUCETS	#201-AHA8XKABCP	MANUAL	2.2	GRID	INSINKATOR #BADGER 1	1/2"	1/2"	1 1/2"	1 1/2"	COUNTER MOUNTED	Yes	
SK-2	ELKAY	#LR2219	STAINLESS STEEL, ONE BOWL, COUNTER MOUNTED SINK	CHICAGO FAUCET	#201-AHA8XKABCP	MANUAL	2.2	GRID	INSINKATOR #BADGER 1	1/2"	1/2"	1 1/2"	1 1/2"	COUNTER MOUNTED	No	
SK-3	Advance Tabco	FS-1-3024-24RL	FABRICATED NSF SINK, 1-COMPARTMENT, 24" RIGHT & LEFT DRAINBOARDS, BOWL SIZE 30" X 24" X 14" DEEP	CHICAGO FAUCETS	#631-GN8FCABCP	MANUAL	1.5	GRID	NA	1/2"	1/2"	1 1/2"	1 1/2"	FLOOR MOUNTED		

GREASE INTERCEPTOR SCHEDULE								
IDENTITY DATA					CAPACITY			
MARK	MANUFACTURER	MODEL	DESCRIPTION	FLOW RATE (GPM)	GREASE (GAL)	LIQUID (GAL)	SOLIDS (GAL)	NOTES
GI-1	SCHIER PRODUCTS	GB-75	HYDROMECHANICAL GREASE INTERCEPTOR	75	118	125	31	PROVIDE TRAFFIC RATED MANHOLE COVER.

SANITARY WASTE PIPING SPECIALTIES (221319)						
FIXTURE					W	
MARK	MANUFACTURER	MODEL	DESCRIPTION	ACCESSORIES	CONNECTION	NOTES
FD-1	J.R. SMITH	#2005YA-U-PB	DUCO CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE ROUND STRAINER HEAD, POLISHED BRONZE STRAINER	TRAPGUARD BY PROSET, NO SUBSTITUTIONS	3"	
FD-3	J.R. SMITH	#2005YA-U-PB	DUCO CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE ROUND STRAINER HEAD, POLISHED BRONZE STRAINER	TRAPGUARD BY PROSET, NO SUBSTITUTIONS	2"	
FD-4	J.R. SMITH	#2005Y-F-37-U-PB	DUCO CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE ROUND STRAINER HEAD, POLISHED BRONZE STRAINER, FLUSH WITH FLOOR FUNNEL WITH ANTI-SPLASH RIM AND GRATE	TRAPGUARD BY PROSET, NO SUBSTITUTIONS	2"	
FS-1	J.R. SMITH	#9693Y-14	STAINLESS STEEL FLOOR SINK WITH DOME BOTTOM STRAINER, STAINLESS GRATE WITH SQUARE CENTER HOLE		4"	
FS-2	J.R. SMITH	#9693Y-14	STAINLESS STEEL FLOOR SINK WITH DOME BOTTOM STRAINER, STAINLESS GRATE WITH SQUARE CENTER HOLE		3"	

A2

COMMERCIAL AND RESIDENTIAL LAVATORIES (224100, 224216.13)														
FIXTURE				TRIM				FIXTURE CONNECTION				MOUNTING	ADA	
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	OPERATION	GPM	CW	HW	W	V	(FLOOR TO RIM)	COMPLIANT	NOTES
L-1	AMERICAN STANDARD	#0356.015	VITREOUS CHINA, WALL MOUNTED, WITH BACK	CHICAGO FAUCETS	#EQ-A12A-51ABCP	SENSOR (HARD WIRED)	0.5	1/2"	1/2"	1 1/2"	1 1/2"	34"	Yes	
L-2	NA	NA	EXISTING LAVATORY BOWL TO REMAIN. NEW FAUCET WITH HARDWIRED SENSOR FAUCET	CHICAGO FAUCETS	#EQ-A12A-51ABCP	SENSOR (HARD WIRED)	0.5	1/2"	1/2"	1 1/2"	1 1/2"	EXISTING LAVATORY	Yes	

COMMERCIAL AND RESIDENTIAL WATER CLOSETS SCHEDULE (224100, 224213.13)													
FIXTURE				TRIM				FIXTURE CONNECTION				ADA	
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	OPERATION	GPF	CW	W	V	MOUNTING	COMPLIANT	NOTES
WC-1	AMERICAN STANDARD	#2257.101	WALL-MOUNTED, TOP SPUD, ACCESSIBLE WATER CLOSET	SLOAN	ROYAL #111 ESS-1.6-YO-TMO-HW	SENSOR (HARD WIRED)	1.6	1"	4"	2"	17"	Yes	
WC-2	AMERICAN STANDARD	#3460.001	FLOOR-MOUNTED, BOTTOM-OUTLET, TOP SPUD WATER CLOSET	SLOAN	ROYAL #111 ESS-1.6-YO-TMO-HW	SENSOR (HARD WIRED)	1.6	1"	4"	2"	17"	Yes	

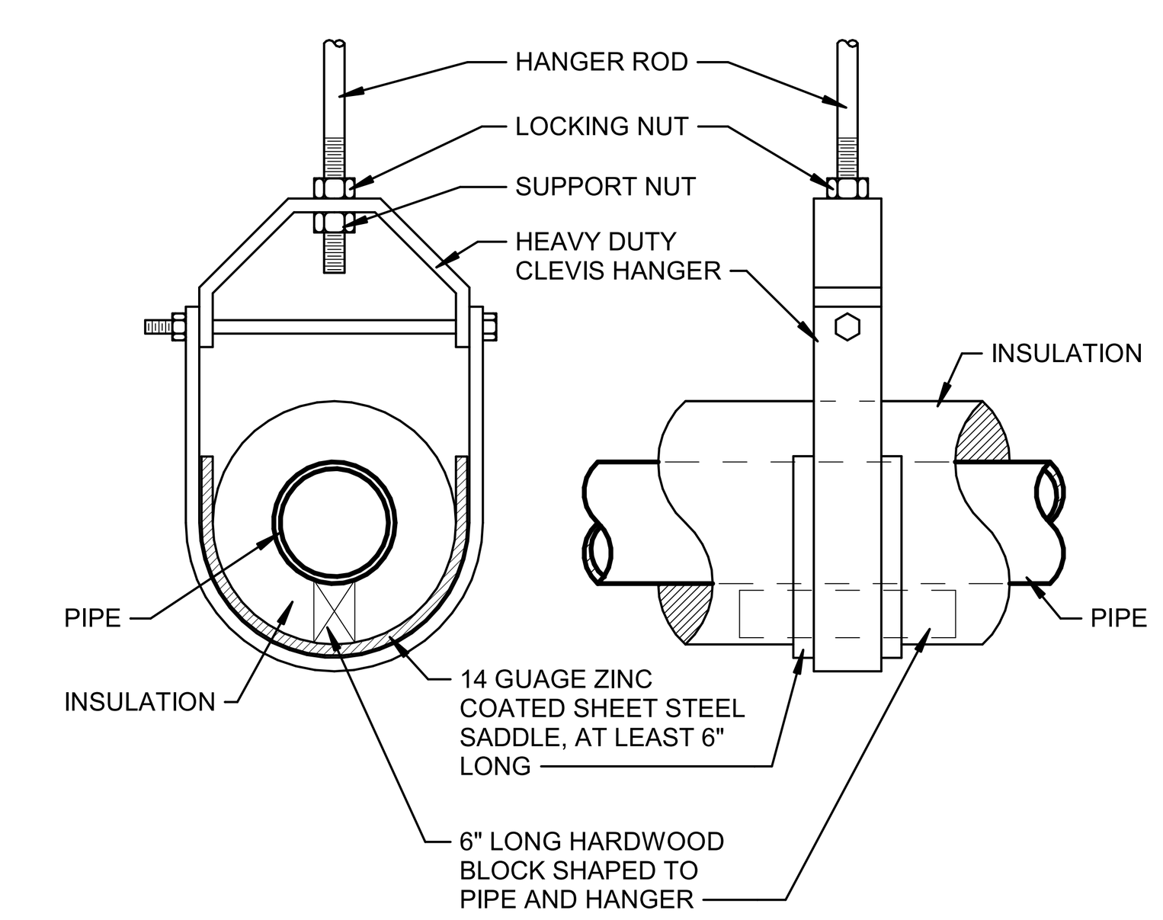
MIXING, METERING, AND PRESSURE REDUCING VALVES (221119)					
IDENTITY DATA					
MARK	MANUFACTURER	MODEL	DESCRIPTION	FLOW RATE	PRESSURE DROP
TMV-1	GUARDIAN	#G6020	TEMPERATURE-ACTUATED, WATER MIXING VALVE	3 GPM	1.00 psi

PLUMBING PUMPS (221123.99)										
IDENTITY DATA				PLUMBING		ELECTRICAL				
MARK	MANUFACTURER	MODEL	DESCRIPTION	FLOW RATE (GPM)	PUMP HEAD (TDH)	VOLTAGE	PHASE	RPM	HP (NOMINAL)	NOTES
HWCP-1	BELL AND GOSSETT	ECOCIRC #40-200	120° DOMESTIC HOT WATER CIRCULATION PUMP	33	35	208	1	VARIABLE	1	

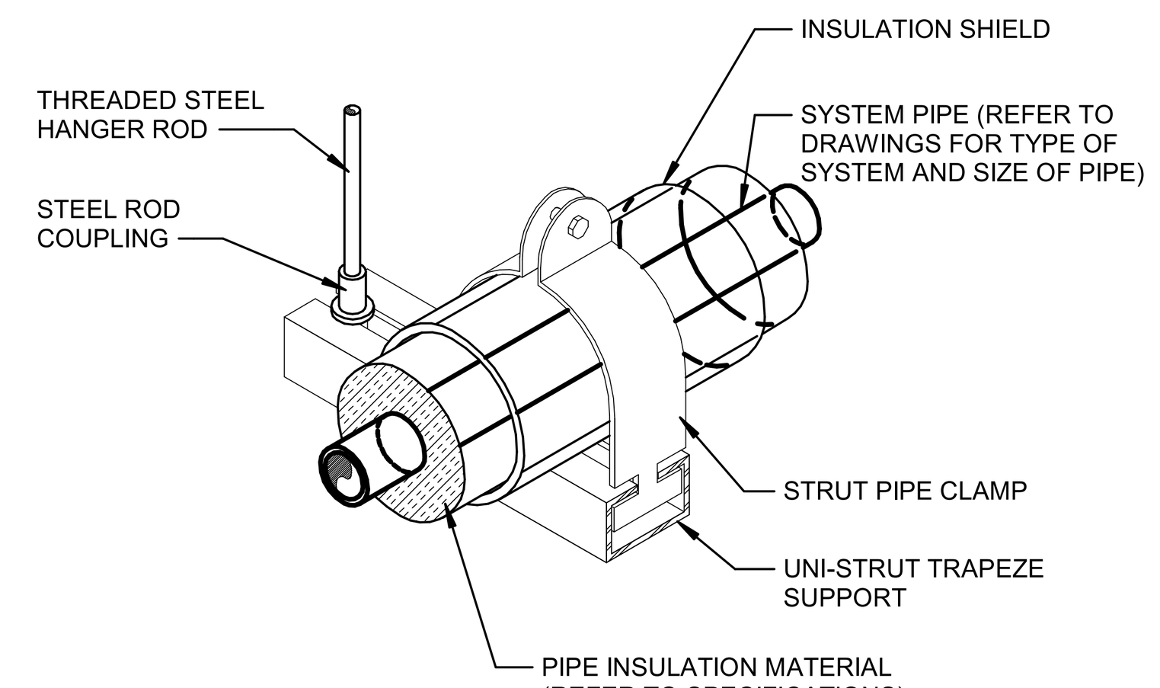
A2

WATER HAMMER ARRESTER (221119)				
MARK	MANUFACTURER	MODEL	DESCRIPTION	F.U. RATING
WHA-A	ZURN	#Z1700-200	WATER HAMMER ARRESTOR	1-11
WHA-B	ZURN	#Z1700-300	WATER HAMMER ARRESTOR	12-32
WHA-C	ZURN	#Z1700-400	WATER HAMMER ARRESTOR	33-60

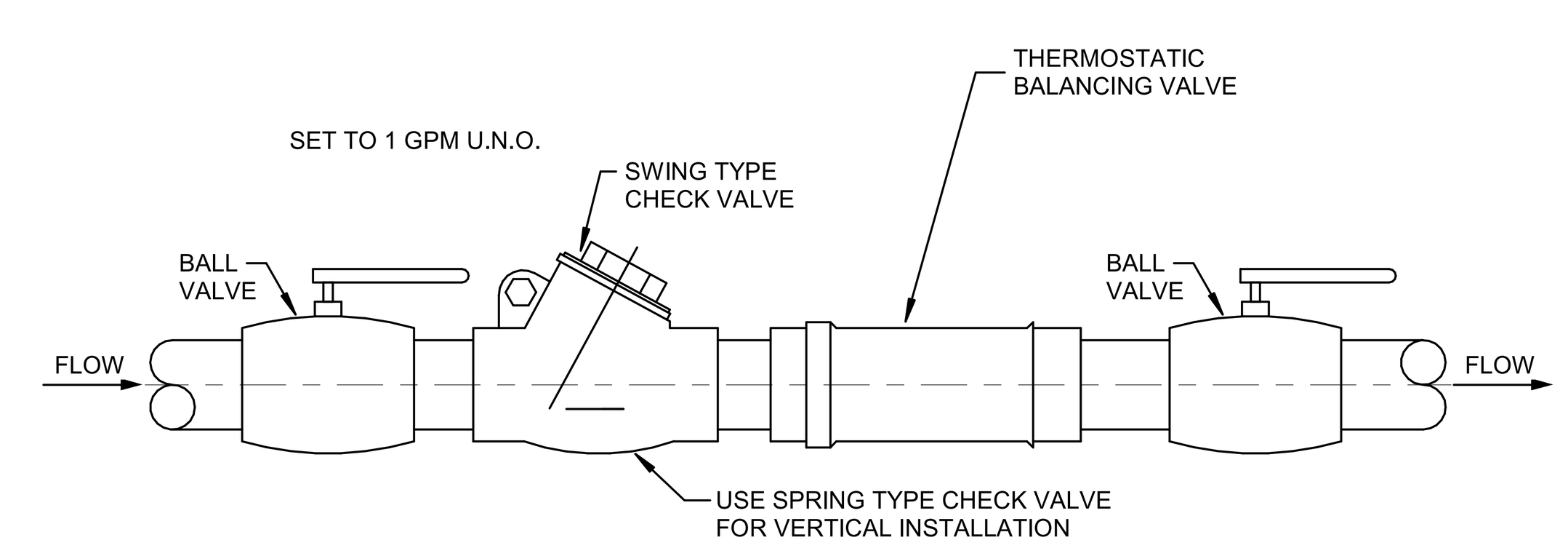
EMERGENCY PLUMBING FIXTURE SCHEDULE (224500)						
IDENTITY DATA				FIXTURE CONNECTION		
MARK	MANUFACTURER	MODEL	DESCRIPTION	T	MOUNTING	NOTES
EMEW-1	Guardian Equipment	G1814	EMERGENCY EYEWASH WITH MIXING VALVE (TMV-1) AND STAINLESS STEEL BOWL	1/2"	WALL MOUNT	



1C **PIPE HANGER (6" & SMALLER) DETAIL**
NOT TO SCALE



3A **TYPICAL TRAPEZE PIPE SUPPORT DETAIL**
NOT TO SCALE



1A **HOT WATER BALANCING VALVE STATION DETAIL**
NOT TO SCALE

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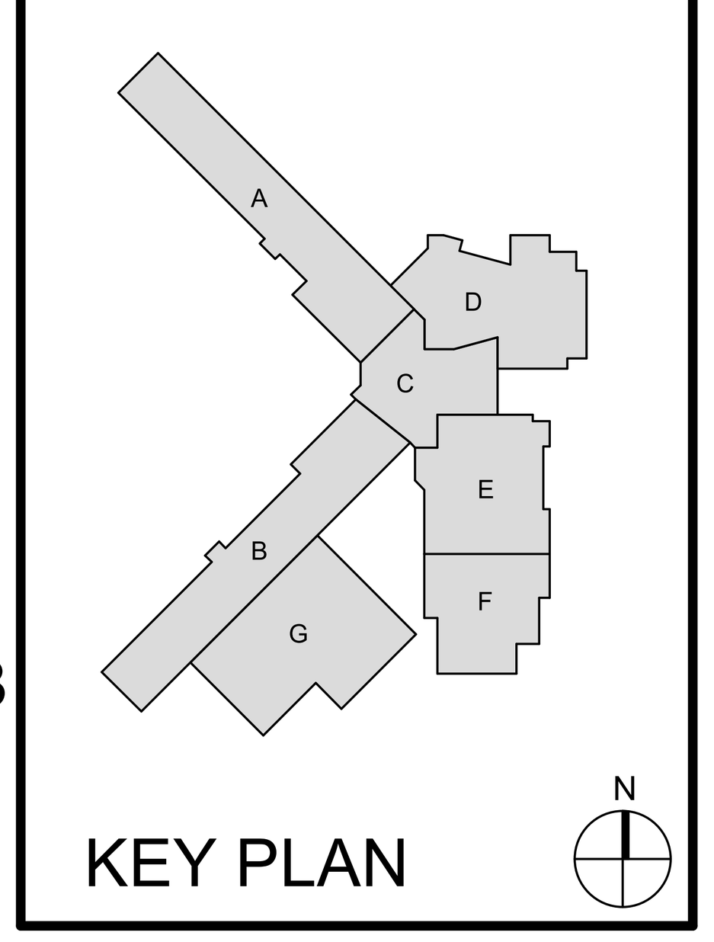


KEY PLAN

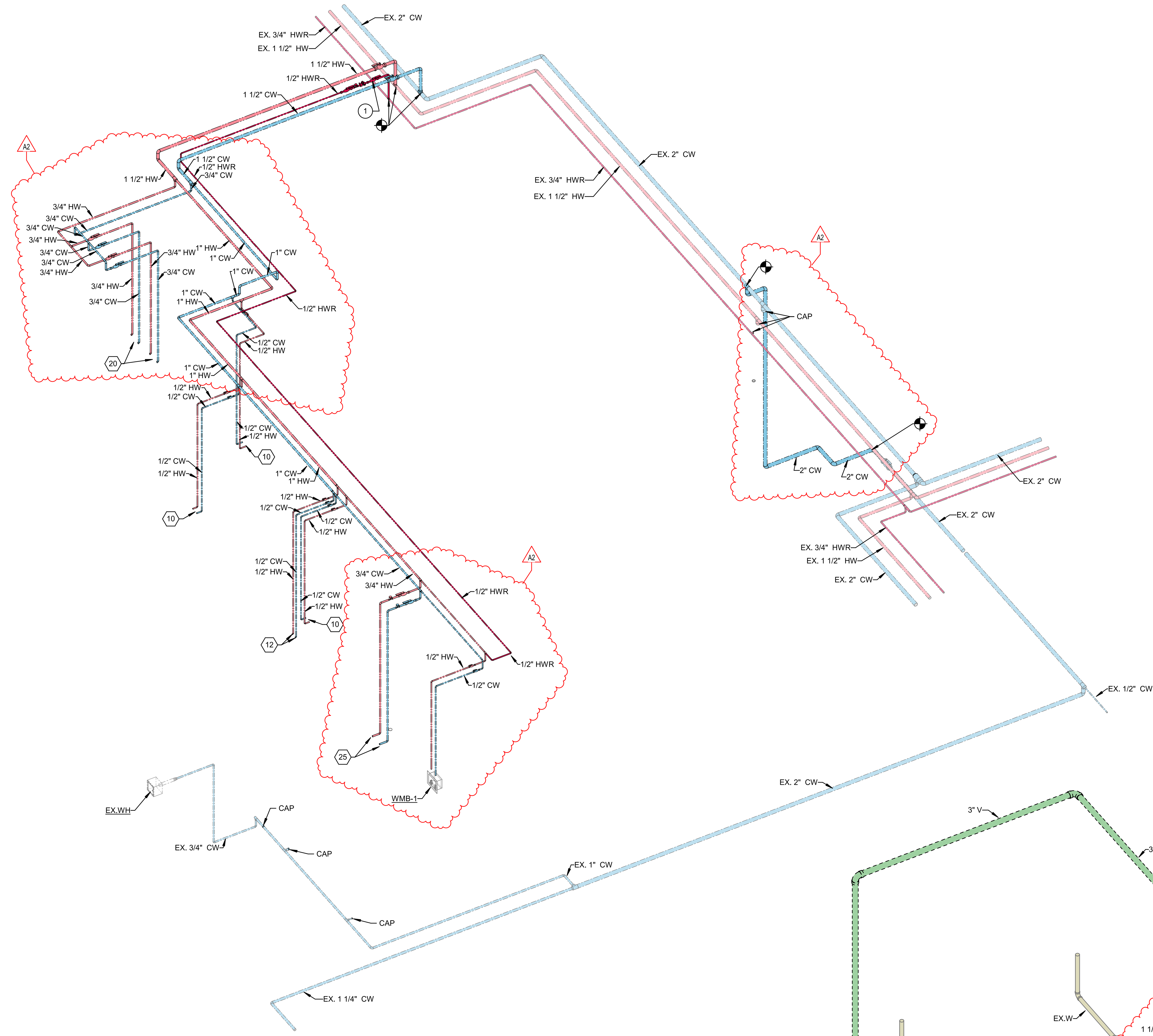
M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

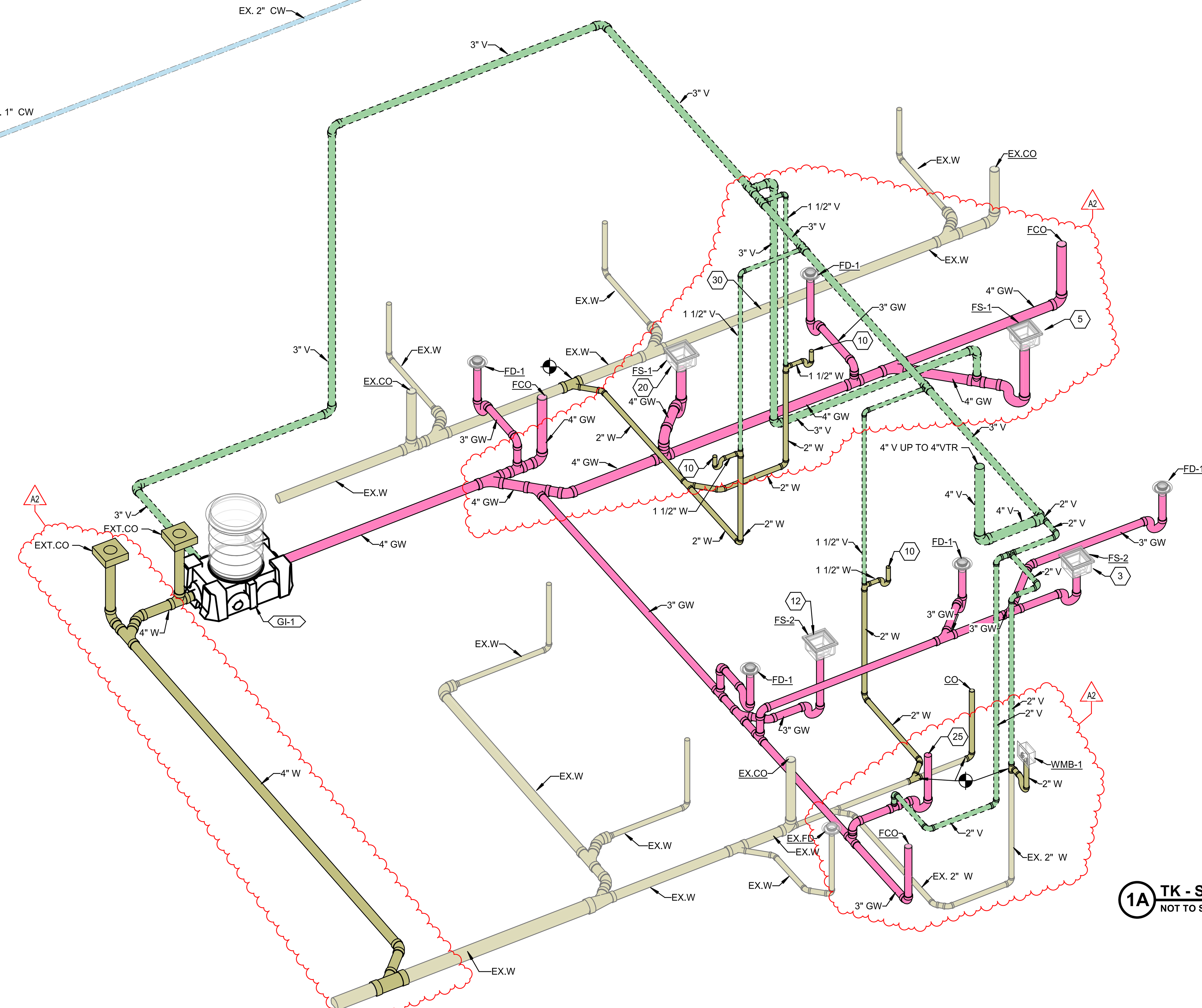
SERVICES CENTER RENOVATION - PHASE 6B

PLUMBING DETAILS AND SCHEDULES

P-501



6B TK - DOMESTIC WATER ISOMETRIC
NOT TO SCALE



1A TK - SANITARY AND VENT ISOMETRIC
NOT TO SCALE

PLUMBING ISOMETRIC PLAN NOTES

#	NOTE
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(XX) NOTE REFERENCES K-SERIES DRAWINGS. SEE K-SERIES DRAWINGS FOR ADDITIONAL INFORMATION

PLUMBING FIXTURE ROUGH-IN LEGEND

MARK	FIXTURE CONNECTION CW	HW	W	V
EMEW-1	1/2"			
BF-1	3/4"		1 1/2"	1 1/2"
EWC-1	3/4"		1 1/2"	1 1/2"
FD-1			3"	
FD-3			2"	
FD-4			2"	
FS-1			4"	
FS-2			3"	
L-1	1/2"	1/2"	1 1/2"	1 1/2"
L-2	1/2"	1/2"	1 1/2"	1 1/2"
HB-1	3/4"			
IMB-1	1/2"			
WMB-1	3/4"	3/4"	2"	1 1/2"
SK-1	1/2"	1/2"	1 1/2"	1 1/2"
SK-2	1/2"	1/2"	1 1/2"	1 1/2"
SK-3	1/2"	1/2"	1 1/2"	1 1/2"
WC-1	1"		4"	2"
WC-2	1"		4"	2"

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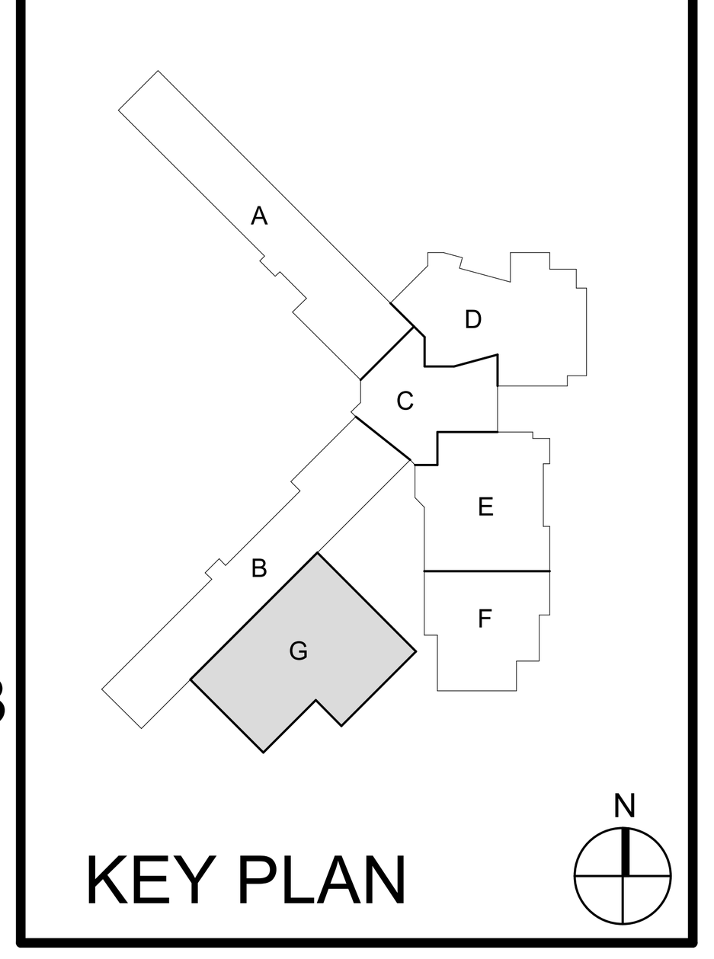


KEY PLAN

M.S.D. of Washington Township

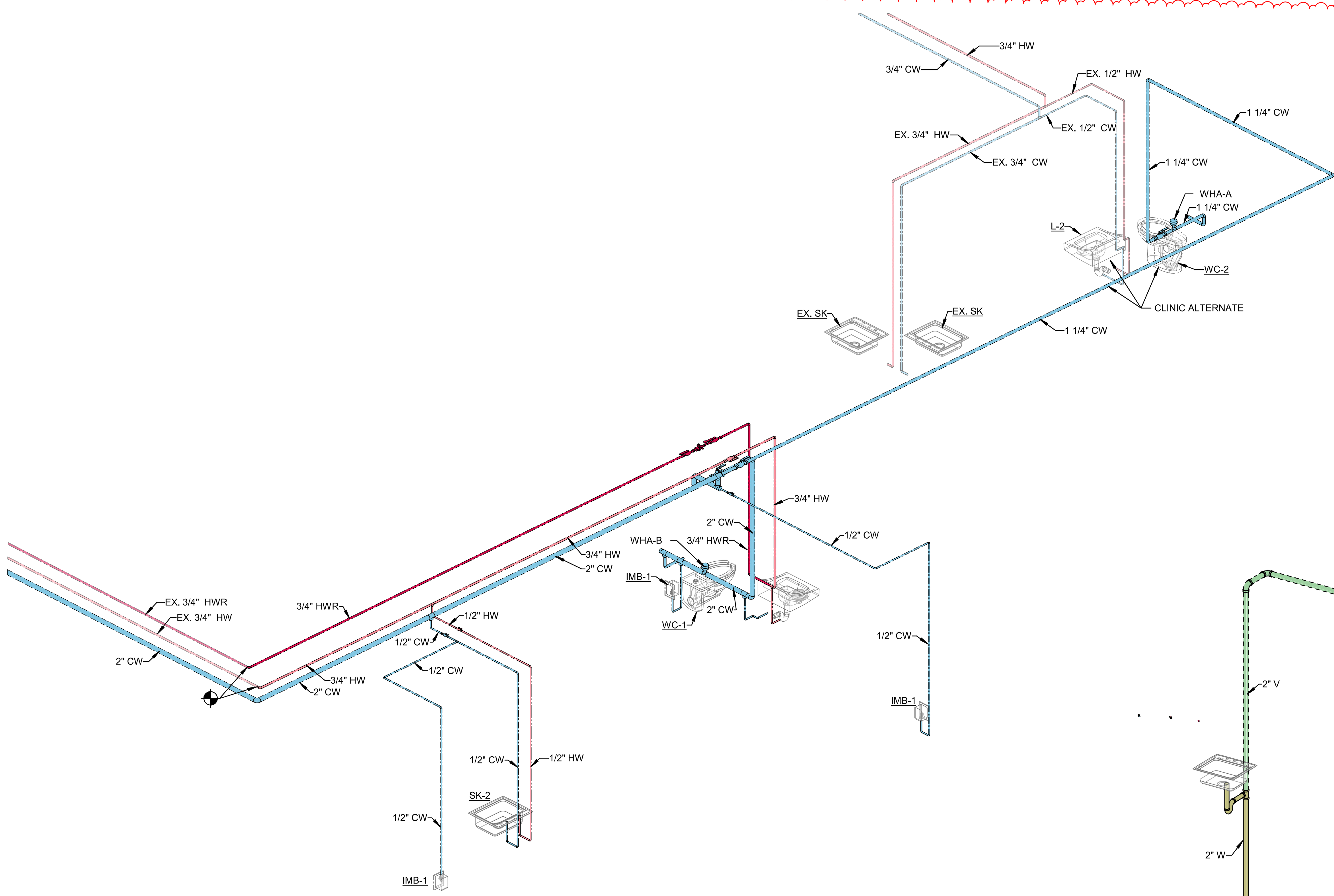
WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

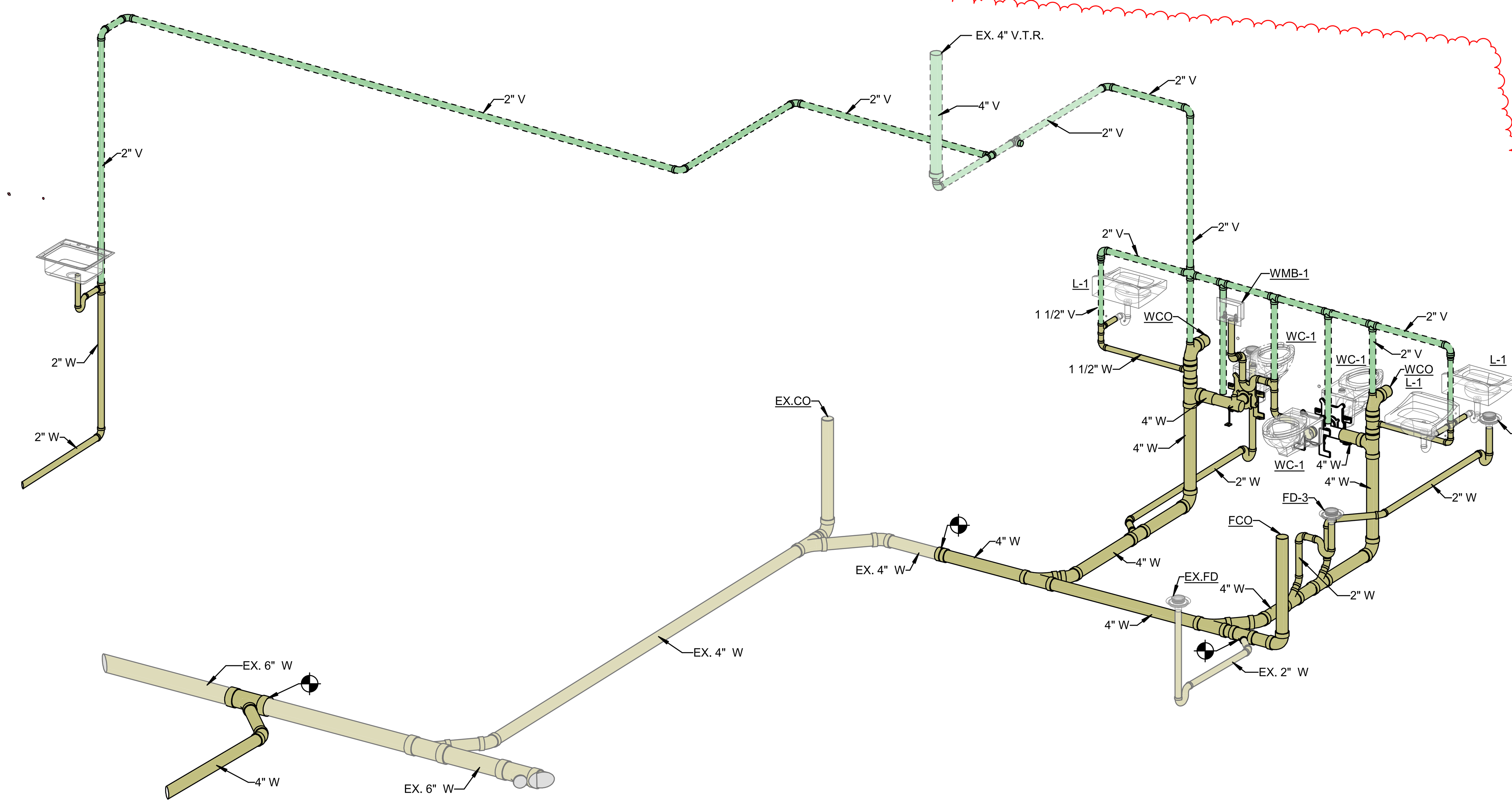
PLUMBING ISOMETRIC - UNIT G

P-912

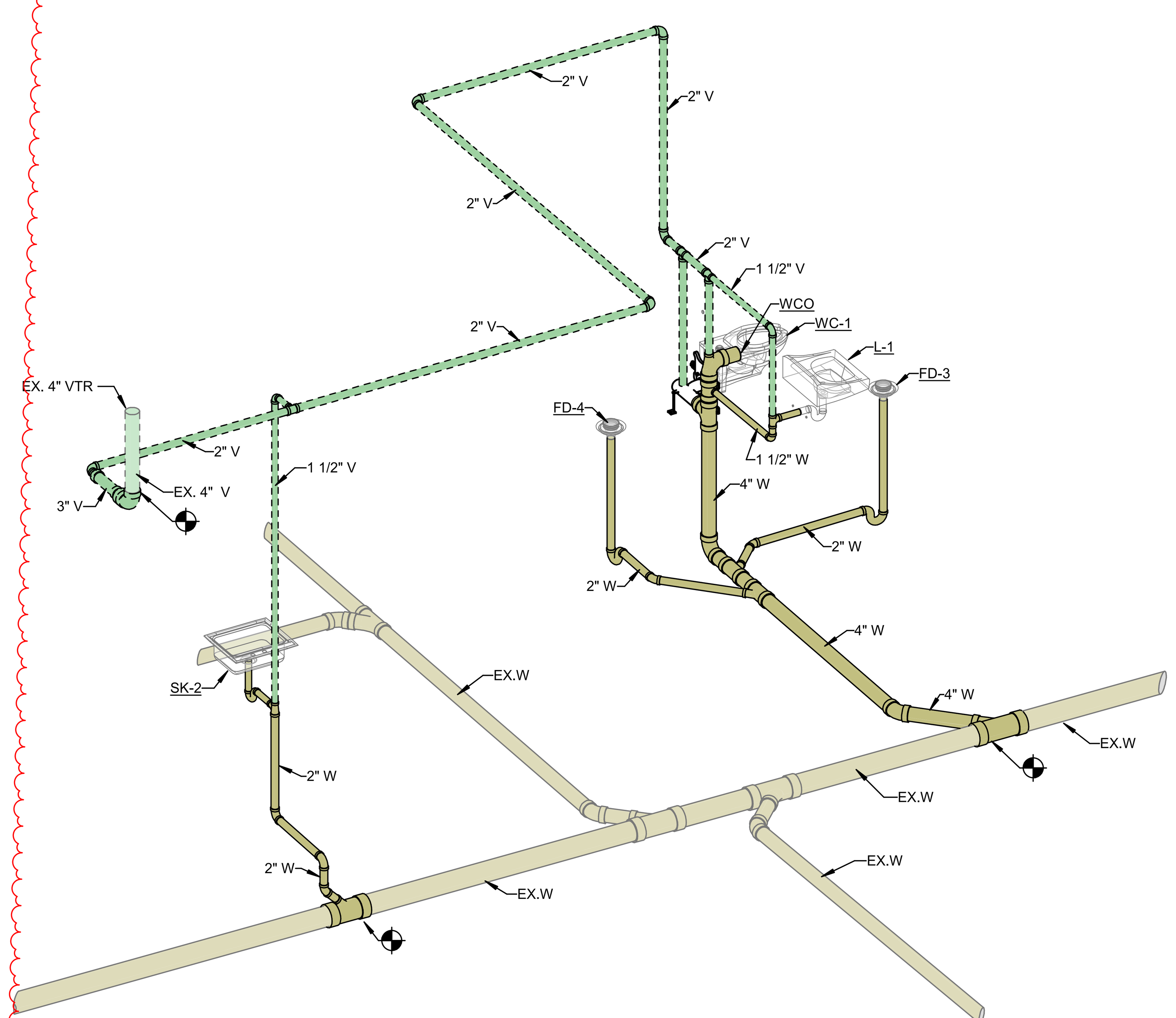
6 | 5 | 4 | 3 | 2 | 1



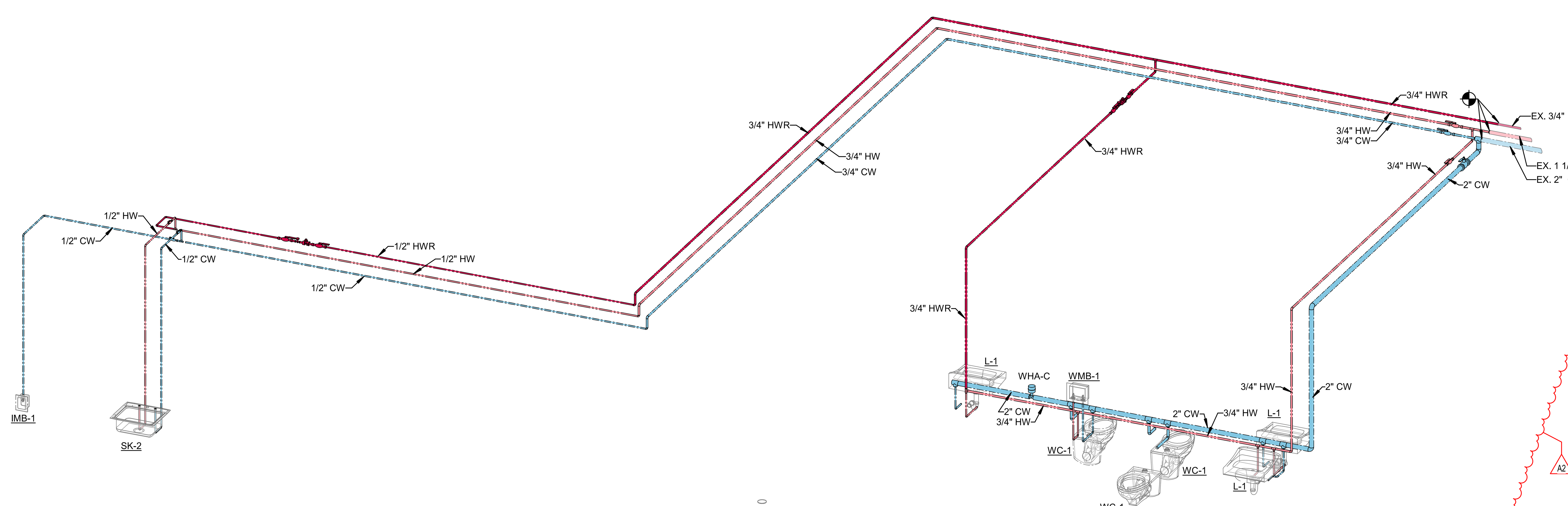
3C G102 AND H100F RESTROOMS AND KITCHENETTES DOMESTIC WATER ISOMETRIC
NOT TO SCALE



1B G106 AND H100A RESTROOMS AND KITCHENETTES WASTE AND VENT ISOMETRIC
NOT TO SCALE



5A G102 AND H100F RESTROOMS AND KITCHENETTES WASTE AND VENT ISOMETRIC
NOT TO SCALE



1A G106 AND H100A RESTROOMS AND KITCHENETTES DOMESTIC WATER ISOMETRIC
NOT TO SCALE

PLUMBING ISOMETRIC PLAN NOTES

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(XX) NOTE REFERENCES K-SERIES DRAWINGS. SEE K-SERIES DRAWINGS FOR ADDITIONAL INFORMATION

PLUMBING FIXTURE ROUGH-IN LEGEND

MARK	FIXTURE CONNECTION			
	CW	HW	W	V
EMEW-1	1/2"			
BF-1	3/4"		1 1/2"	1 1/2"
EWC-1	3/4"		1 1/2"	1 1/2"
FD-1			3"	
FD-3			2"	
FD-4			2"	
FS-1			4"	
FS-2			3"	
L-1	1/2"	1/2"	1 1/2"	1 1/2"
L-2	1/2"	1/2"	1 1/2"	1 1/2"
HB-1	3/4"			
IMB-1	1/2"			
WMB-1	3/4"	3/4"	2"	1 1/2"
SK-1	1/2"	1/2"	1 1/2"	1 1/2"
SK-2	1/2"	1/2"	1 1/2"	1 1/2"
SK-3	1/2"	1/2"	1 1/2"	1 1/2"
WC-1	1"		4"	2"
WC-2	1"		4"	2"

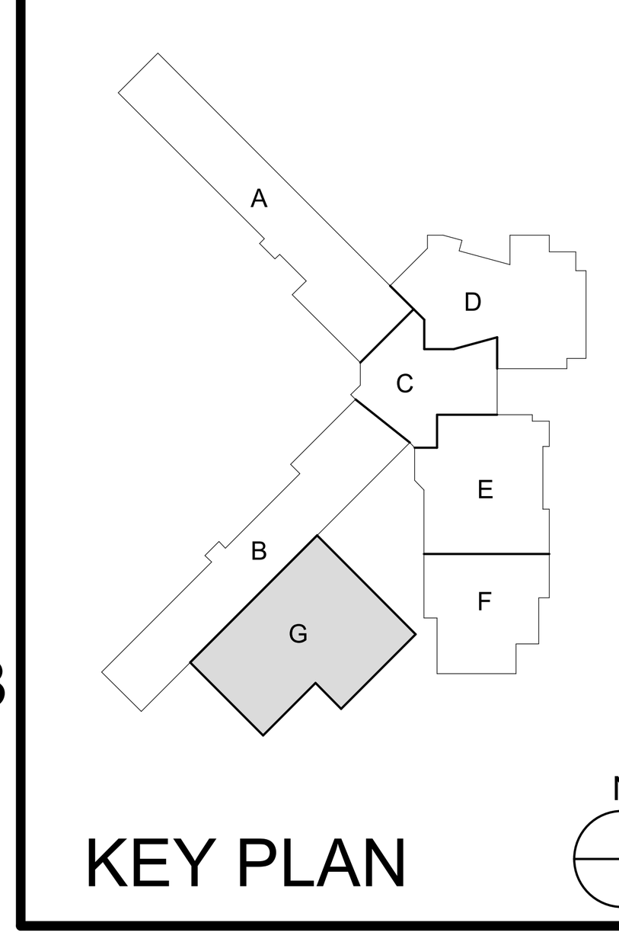
SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.WSC
Project Date 07.31.2024
Produced MJS / JH

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A2	ADDENDUM #2	08.29.2024

8401 Westfield Blvd
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

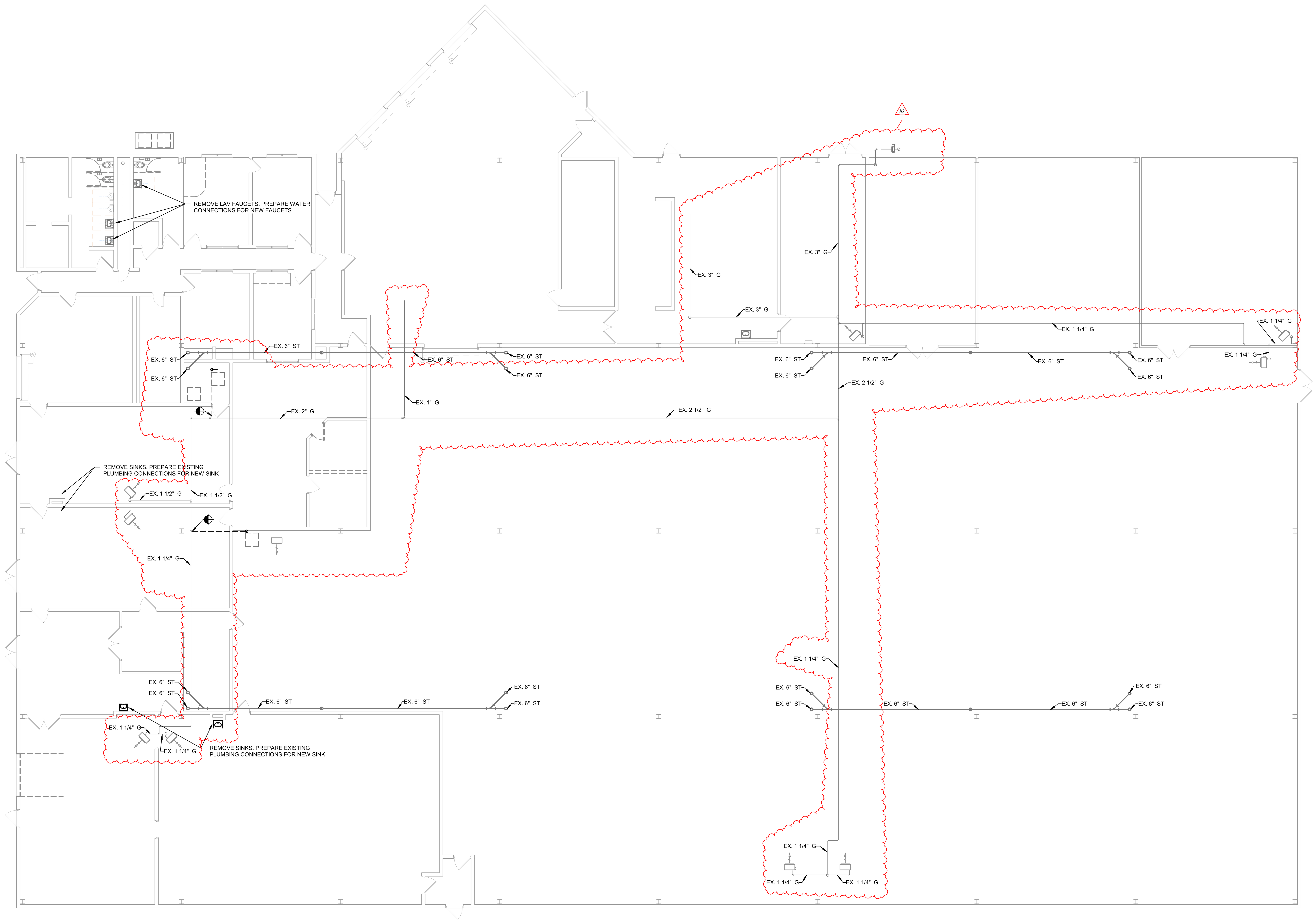
PLUMBING ISOMETRIC - UNIT G

P-913

PLUMBING RENOVATION NOTES

1. EXISTING PIPE ROUTING, AS SHOWN ON DRAWINGS, IS BASED UPON RECORD DOCUMENTS AND FIELD SURVEYS. ACTUAL ROUTE OF CONCEALED PIPING MAY VARY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY PIPE ROUTING PRIOR TO SAW CUTTING OF FLOOR SLABS.

2. CONTRACTOR SHALL JET AND THOROUGHLY FLUSH EXISTING SANITARY SEWERS WHERE DOCUMENTS CALL FOR NEW WASTE PIPE CONNECTIONS.



1A DEMOLITION FIRST FLOOR PLUMBING PLAN - PHASE 6B
1/8" = 1'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

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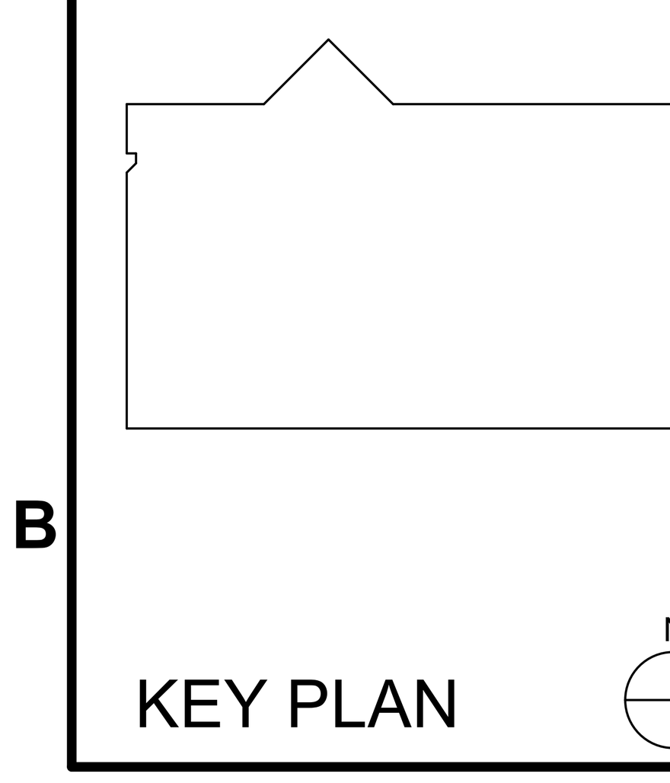


KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

WAREHOUSE RENOVATIONS

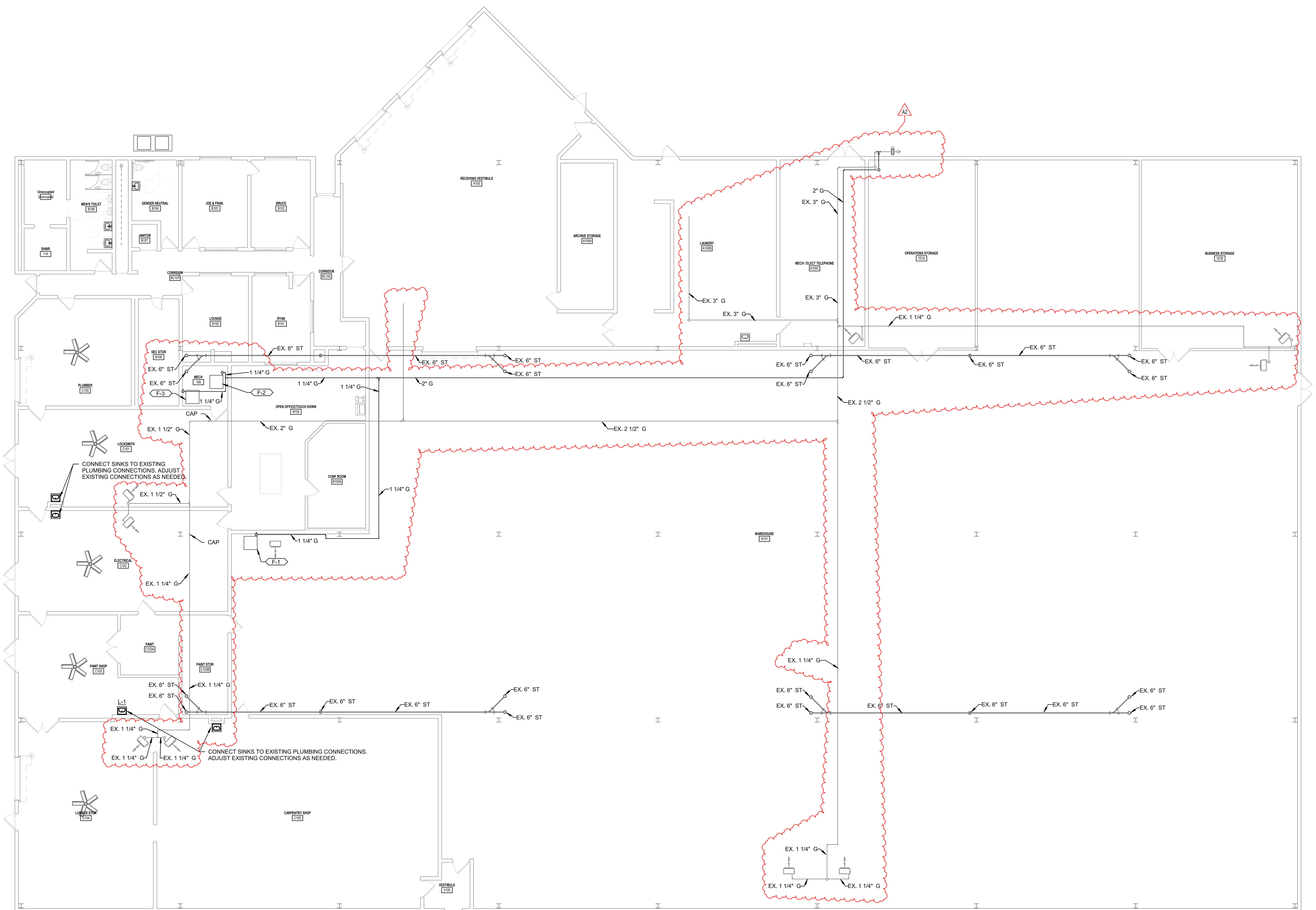
DEMOLITION FIRST FLOOR PLUMBING PLAN

WPD101

COMMERCIAL AND RESIDENTIAL LAVATORIES (224100, 224216.13)														
FIXTURE				TRIM				FIXTURE CONNECTION				MOUNTING (FLOOR TO RIM)	ADA COMPLIANT	NOTES
MARK	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	OPERATION	GPM	CW	HW	W	V			
L-1	AMERICAN STANDARD	#0356.015	VITREOUS CHINA, WALL MOUNTED, WITH BACK	CHICAGO FAUCET	#EQ-A12A-51ABCP	SENSOR	0.5	1/2"	1/2"	1 1/2"	1 1/2"	MATCH EXISTING FIXTURE HEIGHT	No	
L-2	NA	NA	EXISTING LAVATORY BOWL TO REMAIN. NEW FAUCET WITH HARDWIRED SENSOR FAUCET	CHICAGO FAUCET	#EQ-A12A51ABCP	SENSOR	0.5	1/2"	1/2"	1 1/2"	1 1/2"	EXISTING LAVATORY	No	

PLUMBING RENOVATION NOTES

1. EXISTING PIPE ROUTING, AS SHOWN ON DRAWINGS, IS BASED UPON RECORD DOCUMENTS AND FIELD SURVEYS. ACTUAL ROUTE OF CONCEALED PIPING MAY VARY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY PIPE ROUTING PRIOR TO SAW CUTTING OF FLOOR SLABS.
2. CONTRACTOR SHALL JET AND THOROUGHLY FLUSH EXISTING STORM SEWERS WHERE DOCUMENTS CALL FOR NEW WASTE PIPE CONNECTIONS.



1A FIRST FLOOR PLUMBING PLAN - PHASE 6B
1/8" = 1'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
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#	Revision	Date
A2	ADDENDUM #2	08.29.2024

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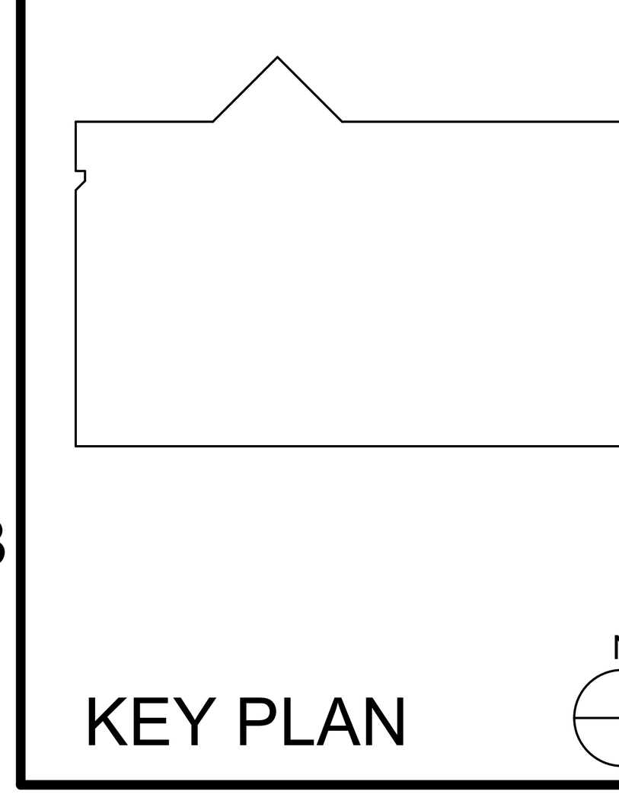
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

WAREHOUSE RENOVATIONS

FIRST FLOOR PLUMBING PLAN

WPP101

PLUMBING RENOVATION NOTES

1. EXISTING PIPE ROUTING, AS SHOWN ON DRAWINGS, IS BASED UPON RECORD DOCUMENTS AND FIELD SURVEYS. ACTUAL ROUTE OF CONCEALED PIPING MAY VARY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY PIPE ROUTING PRIOR TO SAW CUTTING OF FLOOR SLABS.
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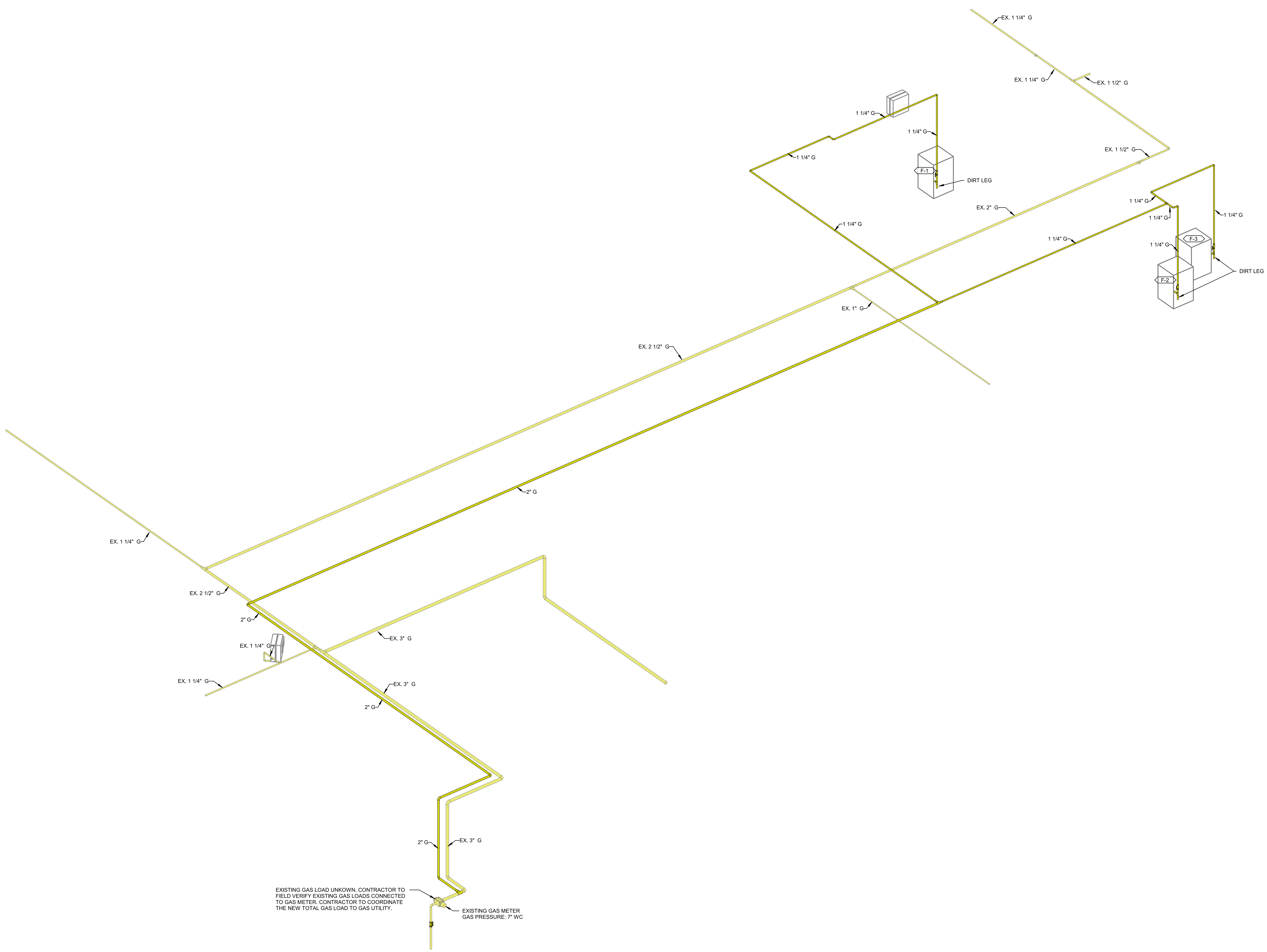

1A GAS ISOMETRIC
NOT TO SCALE

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.WSC
Project Date 05.17.2024
Produced MJS JH

SARAH KATHLEEN HEMPSTEAD REGISTERED ARCHITECT NO. AR10400134 STATE OF INDIANA

#	Revision	Date
A2	ADDENDUM #2	08.29.2024

8401 Westfield Blvd
Indianapolis, IN 46240

KEY PLAN

N

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

WAREHOUSE RENOVATIONS

GAS ISOMETRIC

A2

WP-901

LIGHTING CONTROL SEQUENCE

NOTES:

CONTROL DESIGNATION	SPACE/AREA TYPE	CONTROL INTENT	COMPONENTS	EMERGENCY	CEILING HEIGHT>12'-0"	NOTES
LC01	CORRIDOR	LIGHTS COME TO FULL ON WHEN MOTION IS DETECTED. LIGHTS TURN OFF WHEN MOTION HAS NOT BEEN DETECTED FOR A PRESET AMOUNT OF TIME.	CEILING MOUNT DUAL TECH OCCUPANCY SENSOR WITH AUX CONTACT	INTEGRAL BATTERY BACKUP	NO	
LC02	CLASSROOM	LIGHTS COME TO FULL ON WHEN MOTION IS DETECTED. LIGHTS TURN OFF WHEN MOTION HAS NOT BEEN DETECTED FOR A PRESET AMOUNT OF TIME. INTENSITY ADJUSTED BY MANUAL WALL BOX DIMMER.	CEILING MOUNT DUAL TECH OCCUPANCY SENSOR WITH RELAY FOR INTERFACE WITH HVAC SYSTEM AND WALL CONTROL STATION ON/OFF/RAISE/LOWER.	INTEGRAL BATTERY BACKUP	NO	
LC03	OFFICES	LIGHTS COME TO FULL ON WHEN MOTION IS DETECTED. LIGHTS TURN OFF WHEN MOTION HAS NOT BEEN DETECTED FOR A PRESET AMOUNT OF TIME.	CEILING MOUNT DUAL TECH OCCUPANCY SENSOR WITH WALL CONTROL STATION ON/OFF/RAISE/LOWER.	INTEGRAL BATTERY BACKUP	NO	
LC04	STORAGE	LIGHTS COME TO FULL ON WHEN MOTION IS DETECTED. LIGHTS TURN OFF WHEN MOTION HAS NOT BEEN DETECTED FOR A PRESET AMOUNT OF TIME.	CEILING MOUNT OR WALL MOUNT DUAL TECH OCCUPANCY SENSOR.	N/A	NO	
LC05	SINGLE RESTROOM	LIGHTS COME TO FULL ON WHEN MOTION IS DETECTED. LIGHTS TURN OFF WHEN MOTION HAS NOT BEEN DETECTED FOR A PRESET AMOUNT OF TIME.	WALL MOUNT OCCUPANCY SENSOR/SWITCH.	INTEGRAL BATTERY BACKUP	NO	
LC06	MULTI RESTROOM	LIGHTS COME TO FULL ON WHEN MOTION IS DETECTED. LIGHTS TURN OFF WHEN MOTION HAS NOT BEEN DETECTED FOR A PRESET AMOUNT OF TIME.	CEILING MOUNT DUAL TECH OCCUPANCY SENSOR.	INTEGRAL BATTERY BACKUP	NO	
LC07	CAFETERIA	LIGHTS COME TO FULL ON WHEN MOTION IS DETECTED. LIGHTS TURN OFF WHEN MOTION HAS NOT BEEN DETECTED FOR A PRESET AMOUNT OF TIME. LIGHT LEVEL ADJUSTED VIA 4-SCENE/8-BUTTON WALL CONTROL. CONTROL STATION TO INCLUDE 4-SCENES/ON/OFF/RAISE/LOWER. PRESET SCENES TO BE COORDINATED WITH OWNER.	CEILING MOUNT DUAL TECH OCCUPANCY SENSOR, WALL MOUNT 4-SCENE, 8-BUTTON LIGHTING CONTROL STATION.	INTEGRAL BATTERY BACKUP	NO	
LC08	SENSORY	LIGHTS COME TO FULL ON WHEN MOTION IS DETECTED. LIGHTS TURN OFF WHEN MOTION HAS NOT BEEN DETECTED FOR A PRESET AMOUNT OF TIME.	CEILING MOUNT DUAL TECH OCCUPANCY SENSOR, WALL MOUNT TUNABLE WHITE CONTROL STATION WITH ON/OFF/RAISE/LOWER/CCT/RAISE/LOWER.	N/A	NO	
LC09	KITCHEN	LIGHTS COME TO FULL ON WHEN MOTION IS DETECTED. LIGHTS TURN OFF WHEN MOTION HAS NOT BEEN DETECTED FOR A PRESET AMOUNT OF TIME.	CEILING MOUNT DUAL TECH OCCUPANCY SENSOR AND LOCAL MANUAL OVERRIDE SWITCH(ES).	INTEGRAL BATTERY BACKUP	NO	
LC10	TECH HUB	LIGHTS COME TO FULL ON WHEN MOTION IS DETECTED. LIGHTS TURN OFF WHEN MOTION HAS NOT BEEN DETECTED FOR A PRESET AMOUNT OF TIME. LIGHT LEVEL ADJUSTED VIA 4-SCENE/8-BUTTON WALL CONTROL. CONTROL STATION TO INCLUDE 4-SCENES/ON/OFF/RAISE/LOWER. PRESET SCENES TO BE COORDINATED WITH OWNER.	CEILING MOUNT DUAL TECH OCCUPANCY SENSOR, WALL MOUNT 4-SCENE, 8-BUTTON LIGHTING CONTROL STATION.	INTEGRAL BATTERY BACKUP	NO	
LC11	GYMS	LIGHTS COME TO FULL ON WHEN MOTION IS DETECTED. LIGHTS TURN OFF WHEN MOTION HAS NOT BEEN DETECTED FOR A PRESET AMOUNT OF TIME. LOCAL MULTI-SCENE CONTROL WITH MULTI-AONES AND INDEPENDANT ZONE DIMMING WITH PRESET BUTTONS.	CEILING MOUNT 360 DEGREE DUAL TECH OCCUPANCY SENSOR WITH AUX CONTACT	INTEGRAL BATTERY BACKUP	YES	
LC12	WAREHOUSE	LIGHTS COME TO FULL ON WHEN MOTION IS DETECTED. LIGHTS TURN OFF WHEN MOTION HAS NOT BEEN DETECTED FOR A PRESET AMOUNT OF TIME.	CEILING MOUNT 360 DEGREE DUAL TECH PENDANT MOUNT OCCUPANCY SENSOR AND LOCAL OVERRIDE SWITCHES. SWITCHLEGS INDICATED ON DRAWINGS.	INTEGRAL BATTERY BACKUP	YES	
LC13	EXTERIOR	SITE AND BUILDING MOUNTED LIGHTING TURN ON/OFF VIA INTEGRAL PHOTOCELL.	INTEGRAL PHOTOCELL	INTEGRAL BATTERY BACKUP ON BUILDING MOUNTED FIXTURES.	NO	

LIGHTING FIXTURE SCHEDULE - MS

NOTES:

UNIT ID	BASE MANUFACTURER	EQUAL MANUFACTURER	LAMP	VOLTS	WATTS	UNITS	LUMENS	UNITS	CCT	LOCATION(S)	MOUNT	DESCRIPTION
				0 V	0 W					<varies>		
L1	LITHONIA: 2BLT4-48L-SDSM-MVOLT-GZ10-LP840	COLUMBIA: LCAT METALUX: CRUZE	LED	277 V	40 W	/FIXTURE	5000 LM	/FIXTURE	4000K	<varies>	RECESSED	2' X 4' ARCHITECTURAL TROFFER WITH CENTER BASKET LENS. 0-10V DIMMING TO 10%.
L1E	LITHONIA: 2BLT4-48L-SDSM-MVOLT-GZ10-LP840-EL14L	COLUMBIA: LCAT METALUX: CRUZE	LED	277 V	40 W	/FIXTURE	5000 LM	/FIXTURE	4000K	<varies>	RECESSED	SAME AS TYPE 'L1' WITH INTEGRAL EMERGENCY BATTERY.
L2	LITHONIA: 2BLT4-60L-SDSM-MVOLT-GZ10-LP840	COLUMBIA: LCAT METALUX: CRUZE	LED	277 V	47 W	/FIXTURE	6000 LM	/FIXTURE	4000K	CLASSROOMS	RECESED	2' X 4' ARCHITECTURAL TROFFER WITH CENTER BASKET LENS. 0-10V DIMMING TO 10%.
L2E	LITHONIA: 2BLT4-60L-SDSM-MVOLT-GZ10-LP840-EL14L	COLUMBIA: LCAT METALUX: CRUZE	LED	277 V	47 W	/FIXTURE	6000 LM	/FIXTURE	4000K	CLASSROOMS	RECESED	SAME AS TYPE 'L2' WITH INTEGRAL EMERGENCY BATTERY.
L3	LITHONIA: BLT4-30L-SDSM-MVOLT-GZ10-LP840	COLUMBIA: LCAT METALUX: CRUZE	LED	277 V	23 W	/FIXTURE	3000 LM	/FIXTURE	4000K	RESTROOMS	RECESSED	1' X 4' ARCHITECTURAL TROFFER WITH CENTER BASKET LENS. 0-10V DIMMING TO 10%.
L3E	LITHONIA: BLT4-30L-SDSM-MVOLT-GZ10-LP840-EL14L	COLUMBIA: LCAT METALUX: CRUZE	LED	277 V	23 W	/FIXTURE	3000 LM	/FIXTURE	4000K	RESTROOMS	RECESSED	SAME AS TYPE 'L3' WITH INTEGRAL EMERGENCY BATTERY.
L4	LITHONIA: 2BLT4-60L-SDSM-MVOLT-GZ10-LP835	COLUMBIA: LCAT METALUX: CRUZE	LED	277 V	46 W	/FIXTURE	6000 LM	/FIXTURE	4000K	SENSORY ROOM	RECESSED	2' X 4' ARCHITECTURAL TROFFER WITH CENTER BASKET LENS. 0-10V DIMMING TO 10%.
L5	LITHONIA: CPX-2X4-5000LM-80CRI-40K-SWL-MIN10-MVOLT	COLUMBIA METALUX	LED	277 V	40 W	/FIXTURE	5000 LM	/FIXTURE	4000K	STORAGE/SERVING	RECESSED	2' X 4' BACK LIT FLAT PANEL WITH DIFFUSED LENS.
L5E	LITHONIA: CPX-2X4-5000LM-80CRI-40K-SWL-MIN10-MVOLT-E10W	COLUMBIA METALUX	LED	277 V	40 W	/FIXTURE	5000 LM	/FIXTURE	4000K	STORAGE/SERVING	RECESSED	SAME AS TYPE 'L5' WITH INTEGRAL EMERGENCY BATTERY.
L6	LITHONIA: LBR8-AL02-SWW1-AR-LSS-MWD-MVOLT-90CRI	HALO: 'HC8R' SERIES PRESCOLITE	LED	277 V	25 W	/FIXTURE	1500 LM	/FIXTURE	4000K	GENERAL	RECESSED	8" ROUND RECESSED RETROFIT DOWNLIGHT WITH MEDIUM DISTRIBUTION, ADJUSTABLE LUMEN OUTPUT, SWITCHABLE CCT, SEMI-SPECULAR REFLECTOR AND CLEAR TRIM.
L6E	LITHONIA: LBR8-AL02-SWW1-AR-LSS-MWD-MVOLT-90CRI-E10WCP	HALO: 'HC8R' SERIES PRESCOLITE	LED	277 V	25 W	/FIXTURE	1500 LM	/FIXTURE	4000K	GENERAL	RECESSED	SAME AS TYPE 'L6' WITH INTEGRAL EMERGENCY BATTERY.
L7	LITHONIA: LDN4-20LM-40K-L0O4-AR--LD-MVOLT	HALO: 'HC4' SERIES PRESCOLITE	LED	277 V	25 W	/FIXTURE	1000 LM	/FIXTURE	4000K	TECH HUB	RECESSED	4" ROUND RECESSED DOWNLIGHT WITH MEDIUM DISTRIBUTION, SEMI-SPECULAR REFLECTOR AND CLEAR TRIM. 0-10V DIM.
L8	LITERONICS: 'HOPT4' SERIES	OWNER PROVIDED. NO SUBSTITUTIONS. CONTACT: ROB ANNEE @ FLEX GREEN LIGHTING R.ANNEE@FLEXGREENLIGHT.COM, (317) 535-5337	LED	277 V	145 W	/FIXTURE	18000 LM	/FIXTURE	4000K	AUX GYM	RECESSED	2' X 4' HIGH-BAY RECESSED TROFFER WITH HIGH LUMEN OUTPUT AND PRISMATIC LENS. 0-10V DIMMING TO 10%.
L8E	LITERONICS: 'HOPT4' SERIES	OWNER PROVIDED. NO SUBSTITUTIONS. CONTACT: ROB ANNEE @ FLEX GREEN LIGHTING R.ANNEE@FLEXGREENLIGHT.COM, (317) 535-5337	LED	277 V	145 W	/FIXTURE	18000 LM	/FIXTURE	4000K	AUX GYM	RECESSED	SAME AS TYPE 'L8' WITH INTEGRAL EMERGENCY BATTERY.
L9	LITERONICS: 'HOPT4' SERIES	OWNER PROVIDED. NO SUBSTITUTIONS. CONTACT: ROB ANNEE @ FLEX GREEN LIGHTING R.ANNEE@FLEXGREENLIGHT.COM, (317) 535-5337	LED	277 V	200 W	/FIXTURE	21000 LM	/FIXTURE	4000K	WRESTLING ROOM	TBD	2' X 4' HIGH-BAY RECESSED TROFFER WITH HIGH LUMEN OUTPUT AND PRISMATIC LENS. 0-10V DIMMING TO 10%.
L9E	LITERONICS: 'HOPT4' SERIES	OWNER PROVIDED. NO SUBSTITUTIONS. CONTACT: ROB ANNEE @ FLEX GREEN LIGHTING R.ANNEE@FLEXGREENLIGHT.COM, (317) 535-5337	LED	277 V	200 W	/FIXTURE	21000 LM	/FIXTURE	4000K	WRESTLING ROOM	TBD	SAME AS TYPE 'L9' WITH INTEGRAL EMERGENCY BATTERY.
L10	LITHONIA: BLT4-48L-SDSM-MVOLT-GZ10-LP840	COLUMBIA: LCAT METALUX: CRUZE	LED	277 V	39 W	/FIXTURE	4800 LM	/FIXTURE	4000K	CORRIDORS	RECESSED	1' X 4' ARCHITECTURAL TROFFER WITH CENTER BASKET LENS. 0-10V DIMMING TO 10%.
L10E	LITHONIA: BLT4-30L-SDSM-MVOLT-GZ10-LP840	COLUMBIA: LCAT METALUX: CRUZE	LED	277 V	39 W	/FIXTURE	4800 LM	/FIXTURE	4000K	CORRIDORS	RECESSED	SAME AS TYPE 'L10' WITH INTEGRAL EMERGENCY BATTERY.
L11	LITHONIA: LDN6-40-20-L06-LD-TRW-MVOLT-GZ10	PORTFOLIO PRESCOLITE	LED	277 V	23 W	/FIXTURE	2000 LM	/FIXTURE	4000K	TRUE NORTH	RECESSED	6" ROUND RECESSED DOWNLIGHT WITH MEDIUM DISTRIBUTION AND DIFFUSE REFLECTOR AND CLEAR TRIM. 0-10% DIMMING TO 10%.
L11E	LITHONIA: LDN6-40-20-L06-LD-TRW-MVOLT-GZ10	PORTFOLIO PRESCOLITE	LED	277 V	23 W	/FIXTURE	2000 LM	/FIXTURE	4000K	TRUE NORTH	RECESSED	SAME AS TYPE 'L11' WITH INTEGRAL EMERGENCY BATTERY.
L12	LITHONIA: LDN4-20LM-40K-L0O4-AR--LD-MVOLT	PORTFOLIO PRESCOLITE	LED	277 V	25 W	/FIXTURE	1500 LM	/FIXTURE	4000K	TECH HUB	RECESSED	4" ROUND RECESSED DOWNLIGHT WITH MEDIUM DISTRIBUTION, SEMI-SPECULAR REFLECTOR AND CLEAR TRIM. 0-10V DIM.
L12E	LITHONIA: LDN4-20LM-40K-L0O4-AR--LD-MVOLT-EM	PORTFOLIO PRESCOLITE	LED	277 V	25 W	/FIXTURE	1500 LM	/FIXTURE	4000K	TECH HUB	RECESSED	SAME AS TYPE 'L12' WITH INTEGRAL EMERGENCY BATTERY.
L13	MARK: SL2L LED-LOP-4-FLP-X-80CRI-40K-80-0LMF-MIN1-X	LITECONTROL LUMENWERX	LED	277 V	40 W	/FIXTURE	4000 LM	/FIXTURE	4000K	TECH HUB	GRID	2"W X 4'L RECESSED LINEAR WITH FLUSH DIFFUSE LENS AND EXTRUDED ALUMINUM HOUSING. 0-10V DIM. ARCHITECT TO CONFIRM CEILING GRID TYPE.
L13E	MARK: SL2L LED-LOP-4-FLP-X-80CRI-40K-80-0LMF-MIN1-X-E10WLCP	LITECONTROL LUMENWERX	LED	277 V	40 W	/FIXTURE	4000 LM	/FIXTURE	4000K	TECH HUB	GRID	SAME AS TYPE 'L13' WITH INTEGRAL EMERGENCY BATTERY.
L14	PURE EDGE: CSDHP-HX-7W-X-44-40K-BK	AXIS: 'SCULPT' - SCDPAT	LED	120 V	50 W	/FIXTURE	6150 LM	/FIXTURE	4000K	TECH HUB	SUSPENDED	SUSPENDED LINEAR HEXAGON SHAPE BODY WITH 22.16"L SIDES, HIGH EFFICIENCY LENS, 90CRI AND BLACK SATIN FINISH. PROVIDE WITH INTEGRAL POWER SUPPLY IN CANOPY. REFER TO ARCHITECTURAL/INTERIOR DRAWINGS FOR EXACT SUSPENSION LENGTH. 0-10V DIM.
L15-3	MARK: SL4L-LOP-X-FLP-X-80CRI-40K-800LMF-S80CRI-MIN1-277-X	LITECONTROL STARTEK	LED	277 V	10 W	/FOOT	800 LM	/FOOT	4000K	TECH HUB	RECESSED	4"W X 3'L RECESSED LINEAR WITH FLUSH DIFFUSE LENS AND EXTRUDED ALUMINUM HOUSING. 0-10V DIM. ARCHITECT TO CONFIRM CEILING TYPE.
L15-5	MARK: SL4L-LOP-X-FLP-X-80CRI-40K-800LMF-S80CRI-MIN1-277-X	LITECONTROL STARTEK	LED	277 V	10 W	/FOOT	800 LM	/FOOT	4000K	TECH HUB	RECESSED	4"W X 5'L RECESSED LINEAR WITH FLUSH DIFFUSE LENS AND EXTRUDED ALUMINUM HOUSING. 0-10V DIM. ARCHITECT TO CONFIRM CEILING TYPE.
L15-7	MARK: SL4L-LOP-X-FLP-X-80CRI-40K-800LMF-S80CRI-MIN1-277-X	LITECONTROL STARTEK	LED	277 V	10 W	/FOOT	800 LM	/FOOT	4000K	TECH HUB	RECESSED	4"W X 7'L RECESSED LINEAR WITH FLUSH DIFFUSE LENS AND EXTRUDED ALUMINUM HOUSING. 0-10V DIM. ARCHITECT TO CONFIRM CEILING TYPE.
L15-7E	MARK: SL4L-LOP-X-FLP-X-80CRI-40K-800LMF-S80CRI-MIN1-277-X	LITECONTROL STARTEK	LED	277 V	10 W	/FOOT	800 LM	/FOOT	4000K	TECH HUB	RECESSED	SAME AS TYPE 'L15' WITH INTEGRAL EMERGENCY BATTERY.
L15-8	MARK: SL4L-LOP-X-FLP-X-80CRI-40K-800LMF-S80CRI-MIN1-277-X-E10WLCP	LITECONTROL STARTEK	LED	277 V	10 W	/FOOT	800 LM	/FOOT	4000K	TECH HUB	RECESSED	4"W X 8'L RECESSED LINEAR WITH FLUSH DIFFUSE LENS AND EXTRUDED ALUMINUM HOUSING. 0-10V DIM. ARCHITECT TO CONFIRM CEILING TYPE.
L16E	LITHONIA: CLX-L48-5000LM-SEF-RDL-MVOLT-40K-80CRI-E10WLCP	COLUMBIA: MPS METALUX: SNLED	LED	277 V	42 W	/FIXTURE	5000 LM	/FIXTURE	4000K	TECH HUB	WALL	4' LONG WALL MOUNT LENSED STRIP. MOUNT FIXTURE AT 6" ABOVE FINISH DOOR FRAME TO BOTTOM OF LIGHT FIXTURE.
L17	SLG: HCL-LS360-G2-FSK-HCL-PMB	OWNER PROVIDED. NO SUBSTITUTIONS. CONTACT: ROB ANNEE @ FLEX GREEN LIGHTING R.ANNEE@FLEXGREENLIGHT.COM, (317) 535-5337	LED	277 V	115 W	/FIXTURE	18900 LM	/FIXTURE	4000K	MAIN GYM	STEM	21"L X 12"W PENDANT MOUNT HIGH BAY FIXTURE WITH DIE-CAST ALUMINUM HOUSING AND 0-10V DIM.
L17E	SLG: HCL-LS360-G2-FSK-HCL-PMB-EMD	OWNER PROVIDED. NO SUBSTITUTIONS. CONTACT: ROB ANNEE @ FLEX GREEN LIGHTING R.ANNEE@FLEXGREENLIGHT.COM, (317) 535-5337	LED	277 V	115 W	/FIXTURE	18900 LM	/FIXTURE	4000K	MAIN GYM	STEM	SAME AS TYPE 'L17' WITH INTEGRAL EMERGENCY BATTERY.
L18	LITHONIA: CPX-2X4-6000LM-80CRI-40K-SWL-MIN10-MVOLT	COLUMBIA METALUX	LED	277 V	56 W	/FIXTURE	6000 LM	/FIXTURE	4000K	KITCHEN	RECESSED	2' X 4' BACK LIT FLAT PANEL WITH DIFFUSED LENS.
L18E	LITHONIA: CPX-2X4-6000LM-80CRI-40K-SWL-MIN10-MVOLT-E10W	COLUMBIA METALUX	LED	277 V	56 W	/FIXTURE	6000 LM	/FIXTURE	4000K	KITCHEN	RECESSED	SAME AS TYPE 'L5' WITH INTEGRAL EMERGENCY BATTERY.
L19	MARK: S2PD-LCB-X-80-40K-500LMF-WG-SCT-MIN10-MVOLT-X	LITECONTROL STARTEK	LED	277 V	8 W	/FOOT	500 LM	/FOOT	4000K	TECH HUB	SUSPENDED	2"W X 28'L SUSPENDED LINEAR WITH WALL GRAZE OPTICS, FLUSH DIFFUSE LENS AND EXTRUDED ALUMINUM HOUSING. 0-10V DIM. ARCHITECT TO CONFIRM CEILING GRID TYPE.
L20	LITHONIA: CLX-L48-5000LM-SEF-RDL-MVOLT-40K-80CRI-E10WLCP	COLUMBIA: MPS METALUX: SNLED	LED	277 V	42 W	/FIXTURE	5000 LM	/FIXTURE	4000K	GENERAL	SUSPENDED	4' LONG SUSPENDED LENSED STRIP. MOUNT FIXTURE AT APPROXIMATELY 10' AFF TO BOTTOM OF LIGHT FIXTURE.
S1	LITHONIA: RSX3-LED-P2-40K-R3-MVOLT-RPA-PE-DDBXD	LUMARK: PREVAIL CURRENT: EXO	LED	277 V	444 W	/FIXTURE	54800 LM	/FIXTURE	4000K	PARKING	POLE	TWIN HEAD FIXTURE ASSEMBLY @ 180 DEGREES WITH TYPE 3 DISTRIBUTION, PHOTOCELL AND DARK BRONZE FINISH, ARM MOUNTED ATOP AN EXISTING POLE. CLEAN EXISTING POLE AND BASE. PAINT EXISTING POLE TO MATCH NEW LUMINAIRE HEAD.
S2	LITHONIA: RSX3-LED-P2-40K-R2-MVOLT-RPA--PE-DDBXD	LUMARK: PREVAIL CURRENT: EXO	LED	277 V	222 W	/FIXTURE	27570 LM	/FIXTURE	4000K	DRIVE/PARKING	POLE	ALTERNATE: SINGLE HEAD FIXTURE ASSEMBLY ARM MOUNTED ATOP A 30' ROUND STEEL POLE WITH TYPE 2 DISTRIBUTION, PHOTOCELL AND DARK BRONZE FINISH. LUMINAIRE HEAD AND POLE TO HAVE SAME FINISH.
S3	LITHONIA: RSX3-LED-P3-40K-R3-MVOLT-RPA--PE-DDBXD	LUMARK: PREVAIL CURRENT: EXO	LED	277 V	266 W	/FIXTURE	32000 LM	/FIXTURE	4000K	DRIVE ENTRANCE	POLE	ALTERNATE: SINGLE HEAD FIXTURE ASSEMBLY ARM MOUNTED ATOP A 30' ROUND STEEL POLE WITH TYPE 3 DISTRIBUTION, PHOTOCELL AND DARK BRONZE FINISH. LUMINAIRE HEAD AND POLE TO HAVE SAME FINISH.
SC1E	VERSALED: VR22-Q-23L-QT-40K-EBLED-PC3	ACE LED: 'AC2' SERIES BROWNLEE: 'DURABLAST' SERIES	LED	277 V	23 W	/FIXTURE	2775 LM	/FIXTURE	4000K	TRUE NORTH ENTRANCE	SURFACE	SURFACE MOUNT SQUARE CANOPY FIXTURE WITH OPAL POLYCARBONATE LENS AND INTEGRAL EMERGENCY BATTERY BACKUP FOR COLD WEATHER.
SW1E	LITHONIA: MRW-LED-P1-40K-SR3-PE-E20WC-X.	MCGRAW-EDISON HUBBEL	LED	277 V	20 W	/FIXTURE	2100 LM	/FIXTURE	4000K	BLDG MOUNT	WALL	EXTERIOR WALL PACK WITH INTEGRATED EMERGENCY BATTER BACKUP RATED FOR COLD WEATHER. ARCHITECT TO SELECT FINISH.
X1	SURE-LITES: CX-6-X-WH-SD-R	DUAL-LITE LITHONIA	LED	277 V	2 W	/FIXTURE				GENERAL	UNV	UNIVERSAL MOUNT DIE-CAST ALUMINUM EXIT SIGN WITH WHITE FINISH, RED LETTERING AND NICAD BATTERY BACK UP. NUMBER OF FACES AND ARROWS AS INDICATED ON DRAWINGS.
X2	SURE-LITES: CX-6-X-WH-SD-R-WG10	DUAL-LITE LITHONIA	LED	277 V	2 W	/FIXTURE				GYMS	WALL	WALL MOUNT DIE-CAST ALUMINUM EXIT SIGN WITH SINGLE FACE, WHITE FINISH, RED LETTERING, WIRE GUARD AND NICAD BATTERY BACK UP.

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Project No. 2019-067.OSC
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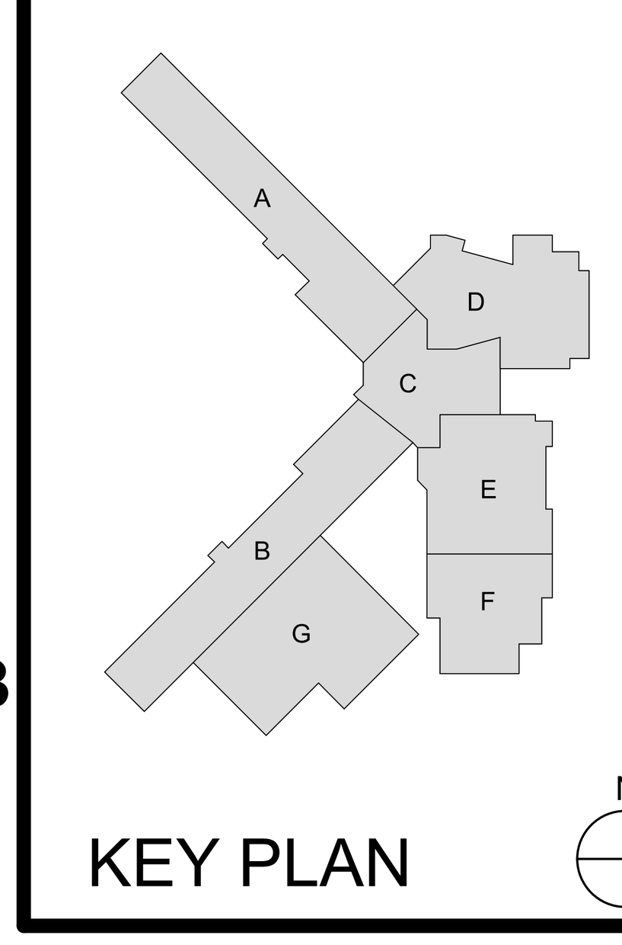
REGISTERED
No. 11300632
STATE OF INDIANA
PROFESSIONAL ENGINEER
7/31/2024

#	Revision	Date
	ADDENDUM #1	08.22.2024
	ADDENDUM #2	08.29.2024

8401 Westfield Blvd
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

WASHINGTON
TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

ELECTRICAL SCHEDULES

E601

Branch Panel: 2L4

Location:		Volts: 120/208 Wye	A.I.C. Rating: EXISTING
Supply From:		Phases: 3	Mains Type: MCB
Mounting:	RECESSED	Wires: 4	Mains Rating: 100 A
Enclosure:	NEMA 1		

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPT RM 215	20 A	1	0	0					1	20 A	RECEPT RM 218	2
3	RECEPT RM 213	20 A	1			0	0			1	20 A	RECEPT RM 216	4
5	RECEPT RM 211	20 A	1					0	0	1	20 A	RECEPT RM 214	6
7	RECEPT RM A25 & A27	20 A	1	0	0					1	20 A	RECEPT RM 212	8
9	RECEPT CORRIDOR	20 A	1			0	0			1	20 A	RECEPT RM A28	10
11	RECEPT BOYS RR	20 A	1					0	0	1	20 A	EXHAUST FAN RESTROOM A-1	12
13	RECEPT CUS CLOSET & CHASE LTS	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	14
15	WATER COOLERS	20 A	1			0	0			1	20 A	LTS ELEC RM &RR	16
17	EXHAST FAN RESTROOM	20 A	1					0	0	1	20 A	RECEPT GIRLS RR	18
19	BOYS HAND DRYERS	20 A	1	0	360					1	20 A	**RECEPT - KITCHENETTE	20
21	GIRLS HAND DRYERS	20 A	1			0	800			1	20 A	**GARBAGE DISPOSAL - KITCHENETTE	22
23	SPACE	--	1					--	1500	1	20 A	**REFRIGERATOR - KITCHENETTE	24
			Total Load:	360 VA		800 VA		1500 VA					
			Total Amps:	3 A		7 A		13 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	1860 VA	100.00%	1860 VA		
FRACTIONAL HP MOTOR	800 VA	100.00%	800 VA	Total Conn. Load:	2660 VA
				Total Est. Demand:	2660 VA
				Total Conn.:	7 A
				Total Est. Demand:	7 A

Notes:
EXISTING SQUARE D - NQOD PANELBOARD
** = REPLACE EXISTING SPACE WITH CIRCUIT BREAKER.

Branch Panel: LX2

Location:		Volts: 120/208 Wye	A.I.C. Rating: EXISTING
Supply From:		Phases: 3	Mains Type: MCB
Mounting:	SURFACE	Wires: 4	Mains Rating: 250 A
Enclosure:	NEMA 1		MCB Rating: 250 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SUMP PUMP (THIS ROOM)	80 A	3	0	0					1	20 A	SOUND CONSOLE IN GYM	2
3						0	0			1	20 A	SUMP PUMP (BY AREAWAY)	4
5								0	0	1	20 A	SOUND CONTROL IN ADMIN	6
7	TELEPHONE BOARD	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	8
9	EXISTING CIRCUIT	20 A	1			0	3120			2	20 A	**IDF RACK - TRUE NORTH	10
11	**RECEPT - COMMAND CENTER	20 A	1					1620	3120				12
13	**COUNTER RECEPT - COMMAND CENTER	20 A	1	360	720					1	20 A	**AV RACK & RECEPTS - TRUE NORTH	14
15	**IDF - 1ST FL AREA B	20 A	1			1260	3120			2	30 A	**HVAC - IDF TRUE NORTH	16
17	**AV RACK - COMMAND CENTER	20 A	1					360	3120				18
			Total Load:	1080 VA		7500 VA		8220 VA					
			Total Amps:	9 A		71 A		77 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	6240 VA	100.00%	6240 VA		
RECEPT	10560 VA	97.35%	10280 VA	Total Conn. Load:	16800 VA
				Total Est. Demand:	16520 VA
				Total Conn.:	47 A
				Total Est. Demand:	46 A

Notes:
EXISTING SIEMENS - P1 PANELBOARD
** REPLACE EXISTING SPACE WITH CIRCUIT BREAKER.

Branch Panel: 1G3

Location:	MECHANICAL ROOM B-101C	Volts: 120/208 Wye	A.I.C. Rating: EXISTING
Supply From:		Phases: 3	Mains Type: MCB
Mounting:	SUFACE	Wires: 4	Mains Rating: 225 A
Enclosure:	NEMA 1		MCB Rating: 150 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	2
3	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	4
5	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	6
7	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	8
9	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	10
11	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	12
13	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	14
15	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	16
17	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	18
19	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	20
21	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	22
23	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	24
25	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	26
27	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	28
29	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	30
31	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	32
33	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	34
35	DOOR HOLD	20 A	1					180	0	1	20 A	EXISTING CIRCUIT	36
37	DOOR HOLD	20 A	1	180	0					1	20 A	SPARE	38
39	SPARE	20 A	1			0	0			1	20 A	SPARE	40
41	SPARE	20 A	1					0	0	1	20 A	SPARE	42
			Total Load:	180 VA		0 VA		180 VA					
			Total Amps:	2 A		0 A		2 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	360 VA	100.00%	360 VA		
				Total Conn. Load:	360 VA
				Total Est. Demand:	360 VA
				Total Conn.:	1 A
				Total Est. Demand:	1 A

Notes:
EXISTING - GE - A-SERIES PANELBOARD

Branch Panel: IG2

Location:		Volts: 120/208 Wye	A.I.C. Rating: EXISTING
Supply From:		Phases: 3	Mains Type: MCB
Mounting:	SURFACE	Wires: 4	Mains Rating: 225 A
Enclosure:	NEMA 1		MCB Rating: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPT RM 222	20 A	1	0	0					1	20 A	RECEPT RM 205	2
3	RECEPT RM 202	20 A	1			0	0			1	20 A	RECEPT RM 205, 207	4
5	RECEPT RM 202	20 A	1					0	0	1	20 A	RECEPT RM 204	6
7	RECEPT RM 201	20 A	1	0	0					1	20 A	RECEPT RM 206	8
9	RECEPT RM 203, 201	20 A	1			0	0			1	20 A	RECEPT RM 207	10
11	RECEPT RM 203	20 A	1					0	0	1	20 A	RECEPT RM 209	12
13	RECEPT RM 208	20 A	1	0	0					1	20 A	POWER POLE RM 218	14
15	RECEPT RM 208, 210	20 A	1			0	0			1	20 A	POWER POLE RM 218	16
17	RECEPT RM 209	20 A	1					0	0	1	20 A	POWER POLE RM 216	18
19	RECEPT RM 210, A20	20 A	1	0	0					1	20 A	POWER POLE RM 216	20
21	RECEPT RM 210	20 A	1			0	0			1	20 A	POWER POLE RM 213	22
23	RECEPT RM 210	20 A	1					0	0	1	20 A	POWER POLE RM 214	24
25	RECEPT RM 213, 215	20 A	1	0	0					1	20 A	POWER POLE RM 212	26
27	RECEPT RM 212, 214	20 A	1			0	0			1	20 A	POWER POLE RM 211	28
29	RECEPT RM 211	20 A	1					0	0	1	20 A	SPARE & STAGE CONT. RM	30
31	SPARE - HALL	20 A	1	0	0					1	20 A	SPARE - HALL	32
33	SPARE - HALL	20 A	1			0	0			1	20 A	SPARE - HALL	34
35	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	SPARE - HALL	36
37	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	38
39	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	RECEPT RM 215	40
41	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	IDF-7	42
			Total Load:	0 VA		0 VA		0 VA					
			Total Amps:	0 A		0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:
EXISTING GE - A SERIES PANELBOARD

Branch Panel: 2L9

Location:		Volts: 120/208 Wye	A.I.C. Rating: EXISTING
Supply From:		Phases: 3	Mains Type: MCB
Mounting:	SURFACE	Wires: 4	Mains Rating: 225 A
Enclosure:	NEMA 1		

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	FLOOR RECEPT - COLLAB LAB	20 A	1	1800	0					2	20 A	SPARE	2
3	RECEPT - TECH HUB NORTH OFFICES	20 A	1			1440	0						4
5	SPARE	20 A	2					0	0	2	20 A	SPARE	6
7				0	0								8
9	SPARE	30 A	2			0	0			2	20 A	SPARE	10
11								0	0				12
13	SPARE	30 A	2	0	0					3	15 A	SPARE	14
15						0	0						16
17	SPARE	15 A	3					0	0				18
19				0	0					2	20 A	SPARE	20
21						0	0						22
23	SPARE	15 A	3					0	0	3	20 A	SPARE	24
25				0	0								26
27						0	0						28
29	RECEPT - TECH HUB NORTH OFFICES	20 A	1					1440	0	3	20 A	SPARE	30
31	RECEPT - TECH HUB AV ROOM	20 A	1	900	0								32
33	SPARE	15 A	3			0	0						34
35								0	0	1	20 A	SPARE	36
37				0	0					1	20 A	SPARE	38
39	SPACE	--	1			--	0			1	20 A	SPARE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
			Total Load:	2700 VA		1440 VA		1440 VA					
			Total Amps:	23 A		12 A		12 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	5580 VA	100.00%	5580 VA		
				Total Conn. Load:	5580 VA
				Total Est. Demand:	5580 VA
				Total Conn.:	15 A
				Total Est. Demand:	15 A

Notes:
EXISTING GE - A SERIES PANELBOARD

Branch Panel: 2L8

Location:		Volts: 120/208 Wye	A.I.C. Rating: EXISTING
Supply From:		Phases: 3	Mains Type: MLO
Mounting:	RECESSED	Wires: 4	Mains Rating: 125 A
Enclosure:	NEMA 1		

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPT - TECH HUB OFFICES & COLLAB	20 A	1	1440	1620					1	20 A	RECEPT - TECH HUB	2
3	RECEPT - TECH HUB OFFICES	20 A	1			1440	0			1	20 A	WATER COOLERS	4
5	RECEPT - LOBBY	20 A	1					1620	1800	1	20 A	FLOOR RECEPT - TECH HUB LARGE...	6
7	REFRIGERATOR - KITCHENETTE	20 A	1	1500	0					2	20 A	SPARE	8
9	GARBAGE DISPOSAL - KITCHENETTE	20 A	1			0	0						10
11	RECEPT - KITCHENETTE	20 A	1					540	0	2	20 A	SPARE	12
13	SPARE	20 A	2	0	0								14
15						0	1260			1	20 A	FL RECEPT - TECH HUB LARGE COLLAB	16
17	SPARE	20 A	2					0	720	1	20 A	RECEPT - TECH HUB	18
19				0	0					1	20 A	CAT WALK LIGHTS	20
21	COPIER - TECH HUB WORK STATION	20 A	1			180	0			1	20 A	RECEPT RM C-205	22
23	AIR HANDLING UNIT 5 CIR PUMP	20 A	1					0	0	1	20 A	RECEPT RM C-205	24
25	SPEAKER SYSTEM	20 A	1	0	0					1	20 A	RECEPT RM C-205	26
27	EXHAUST FAN RM C-203 C-1	20 A	1			0	0			2	20 A	SPARE	28
29	EXHAUST FAN RM C-205 C-2	20 A	1					0	0				30
			Total Load:	4560 VA		2880 VA		4680 VA					
			Total Amps:	40 A		24 A		41 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	12120 VA	91.25%	11060 VA		
Miscellaneous Power	0 VA	0.00%	0 VA	Total Conn. Load:	12120 VA
FRACTIONAL HP MOTOR	0 VA	0.00%	0 VA	Total Est. Demand:	11060 VA
				Total Conn.:	34 A
				Total Est. Demand:	31 A

Notes:
EXISTING GE - A SERIES PANELBOARD

Branch Panel: 2L7

Location:		Volts: 120/208 Wye	A.I.C. Rating: EXISTING
Supply From:		Phases: 3	Mains Type: MCB
Mounting:	SURACE	Wires: 4	Mains Rating: 225 A
Enclosure:	NEMA 1		

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPT STUDENT CENTER	20 A	1	0	0					1	20 A	SPARE	2
3	RECEPT STUDENT CENTER	20 A	1			0	0			1	20 A	SPARE	4
5	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	RECEPT D205, 208, 209	6
7	NEON 2ND FL STUDENT CENTER	20 A	1	0	0					1	20 A	SPARE	8
9	LTG RELAY H & STUDENT CENTER	20 A	1			0	0			1	20 A	LTS & RECEPT IN ROOF TOP UNIT	10
11	NEON 2ND FL STUDENT CENTER	20 A	1					0	0	1	20 A	LTS & RECEPT IN ROOF TOP UNIT	12
13	NEON 1ST FL STUDENT CENTER	20 A	1	0	0					1	20 A	SPARE	14
15	LTS CONTRACTOR CONTROL	20 A	1			0	0			1	20 A	TEMP CONTROL PANELS	16
17	SPARE	20 A	1					0	0	1	20 A	EXHAUST FAN #N1	18
19	FOLLOW SPOTLITE	20 A	1	0	0					3	20 A	SPARE	20
21	RECEPT D202,203,204,206	20 A	1			0	0						22
23	FOLLOW SPOTLITE	20 A	1					0	0				24
25	SPARE	20 A	1	0	0					3	20 A	SPARE	26
27	SPARE	20 A	1			0	0						28
29	SPARE	20 A	1					0	0				30
			Total Load:	0 VA		0 VA		0 VA					
			Total Amps:	0 A		0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:
EXISTING SQUARE D - NQOD PANELBOARD

Branch Panel: 2L5L

Location:		Volts: 120/208 Wye	A.I.C. Rating: EXISTING
Supply From:		Phases: 3	Mains Type: MCB
Mounting:	SURFACE	Wires: 4	Mains Rating: 400 A
Enclosure:	NEMA 1		

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPT - COLUMNS B201, 203,205,207,209	20 A	1	0	0					1	20 A	RECEPT B-22	2
3	RECEPT B-21, 201 STORAGE	20 A	1			0	0			1	20 A	RECEPT B-202	4
5	RECEPT B-203	20 A	1					0	0	1	20 A	RECEPT B-204	6
7	RECEPT B-205	20 A	1	0	0					1	20 A	RECEPT B-206	8
9	RECEPT B-207 STORAGE	20 A	1			0	0			1	20 A	RECEPT B-208	10
11	RECEPT - FAC LOUNGE ICE MAKER	20 A	1					180	0	1	20 A	RECEPT B-210	12
13	CAB HEATER #1	20 A	1	0	0					1	20 A	RECEPT B-20, FACULTY RESTROOM	14
15	RECEPT CORRIDOR	20 A	1			0	0			1	20 A	RECEPT & UH IN MECH RM #12	16
17	LT DARKROOM, RECEPT, CORRIDOR	20 A	1					0	0	1	20 A	WATER COOLERS	18
19	EXHAUST FAN FACULTY RESTROOM	20 A	1	0	0					1	20 A	RECEPT B-22	20
21	ELEVATOR CAB/PIT LIGHTS	20 A	1			0	0			1	20 A	RECEPT B-22	22
23	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	RECEPT B-22	24
25	ELEVATOR	80 A	3	0	0					1	20 A	RECEPT B-202	26
27						0	0			1	20 A	RECEPT B-22	28
29								0	0	1	20 A	RECEPT B-22	30
			Total Load:	0 VA		0 VA		180 VA					
			Total Amps:	0 A		0 A		2 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	180 VA	100.00%	180 VA		
				Total Conn. Load:	180 VA
				Total Est. Demand:	180 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:
EXISTING SQUARE D - NQOD PANELBOARD

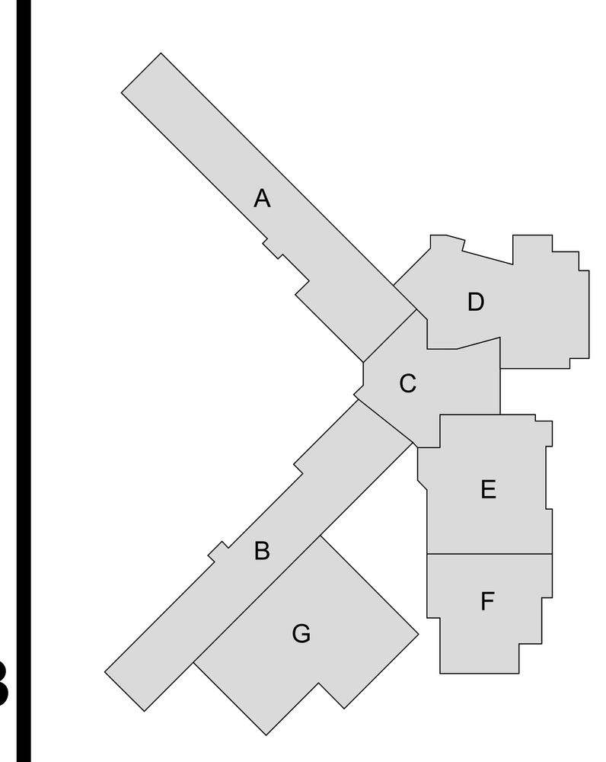
SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.OSC
Project Date 07.31.2024
Produced NEM

KBSO #23166
OLUWASEUN ODUKOMAIYA
REGISTERED
No. 11300632
STATE OF INDIANA
PROFESSIONAL ENGINEER
7/31/2024

#	Revision	Date
	ADDENDUM #1	08.22.2024
	ADDENDUM #2	08.29.2024

8401 Westfield Blvd
Indianapolis, IN 46240



KEY PLAN

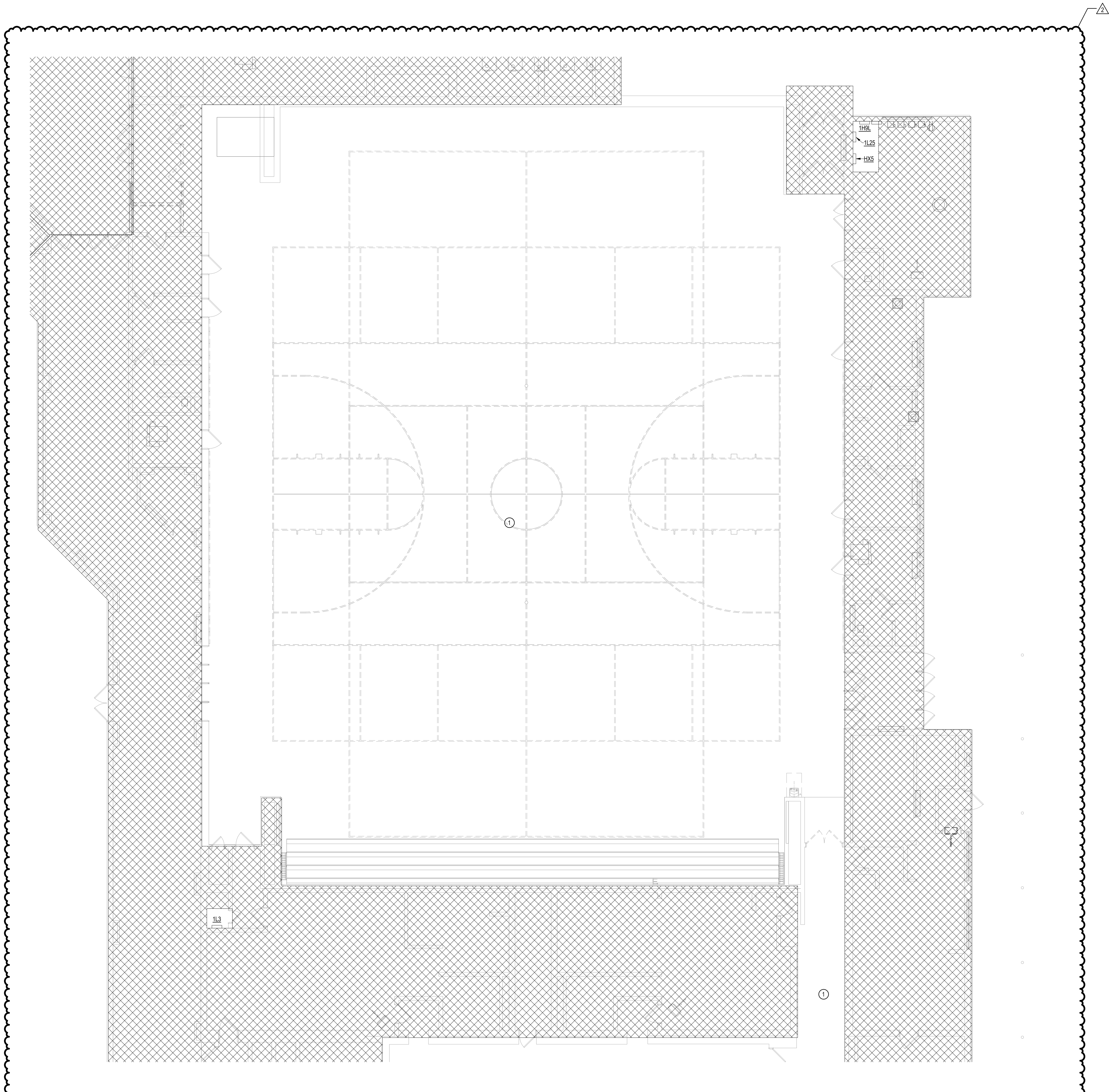
M.S.D. of Washington Township

WASHINGTON
TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

ELECTRICAL SCHEDULES

E605



1 FIRST FLOOR DEMOLITION ELECTRICAL PLAN - UNIT E
1/8" = 1'-0"

GENERAL NOTES

- A REFER TO SHEET E000 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
- B NOT ALL ITEMS TO BE DEMOLISHED ARE SHOWN. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, DEVICES, ASSOCIATED RACEWAYS, SUPPORTING HARDWARE, AND WIRING, WHICH HAVE BEEN MADE OBSOLETE BY THE NEW WORK, UNLESS OTHERWISE NOTED. VISIBLY EXAMINE ALL AREAS, WALLS AND CEILINGS SCHEDULED FOR REMOVAL TO DETERMINE EXACT QUANTITIES REQUIRED TO BE REMOVED.
- C MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING FIXTURES, EQUIPMENT, OUTLETS, ETC., TO REMAIN IN USE WHETHER NOTED ON THE PLANS OR NOT. FIELD VERIFY EXISTING ITEMS TO REMAIN IN USE. RECONNECT RACEWAYS AND WIRING FOR EXISTING CIRCUITS WHICH MUST BE RE-ROUTED OR WHICH ARE PARTIALLY ABANDONED TO POWER THE REMAINING OUTLETS ON THE CIRCUIT.
- D PATCH AND FINISH ALL DISTURBED SURFACES AS REQUIRED TO MATCH THE EXISTING, USING WORKERS QUALIFIED IN THE APPROPRIATE TRADE.
- E CUT AND GRIND ALL ABANDONCED CONDUITS OFF FLUSH WITH FLOOR SLAB OR MASONRY WALL AND PLUG WITH NON-SHRINK WATERPROOF GROUT FILL.
- F COORDINATE ALL DEMOLITION WORK WITH ALL OTHER TRADES.
- G WHERE ELECTRICAL DEVICE IS BEING REMOVED A WALL TO REMAIN, PROVIDE A BLANK COVER. MATCH THE COLOR AND MATERIAL TO NEW PROJECT STANDARDS.
- H LEGALLY DISPOSE OF HAZARDOUS MATERIALS. COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS.
- I REPLACE EXISTING PANEL DIRECTORIES FOR PANELBOARDS WHICH HAVE HAD CIRCUIT ALTERATIONS. TYPE, DO NOT HAND LETTER NEW PANELBOARD DIRECTORIES.
- J FIELD VERIFY EXACT LOCATIONS OF ALL EXISTING EQUIPMENT AND DEVICES PRIOR TO COMMENCING DEMOLITION. DOCUMENT ALL DEVICE LOCATIONS. DIFFERENCES TO BE DOCUMENTED ON AS-BUILT DRAWINGS.
- K CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR HAVING COMPLETE KNOWLEDGE OF THIS SITE, INCLUDING EXISTING STRUCTURES AND FACILITIES. CONTRACTOR TO INCLUDE IN THEIR BID ANY DISCREPANCIES BETWEEN THE ELECTRICAL DRAWINGS AND EXISTING CONDITIONS AND THE ELECTRICAL DRAWINGS AND ARCHITECTURAL, MECHANICAL, PLUMBING DRAWINGS.

SHEET KEYNOTES

1. IN CEILINGS NOTED TO BE REPLACED BY ARCHTECT, FIRE ALARM DEVICES TO BE REMOVED FROM EXISTING CEILING AND SUPPORTED ABOVE CEILING TO BE INSTALLED IN NEW CEILING WHEN INSTALLED.

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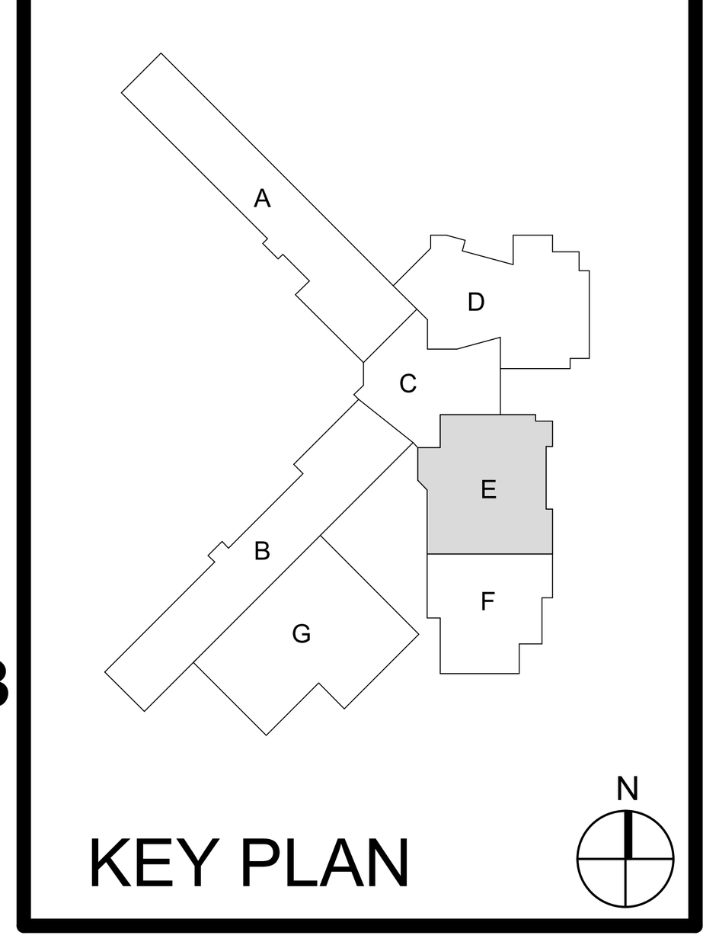


KEY PLAN

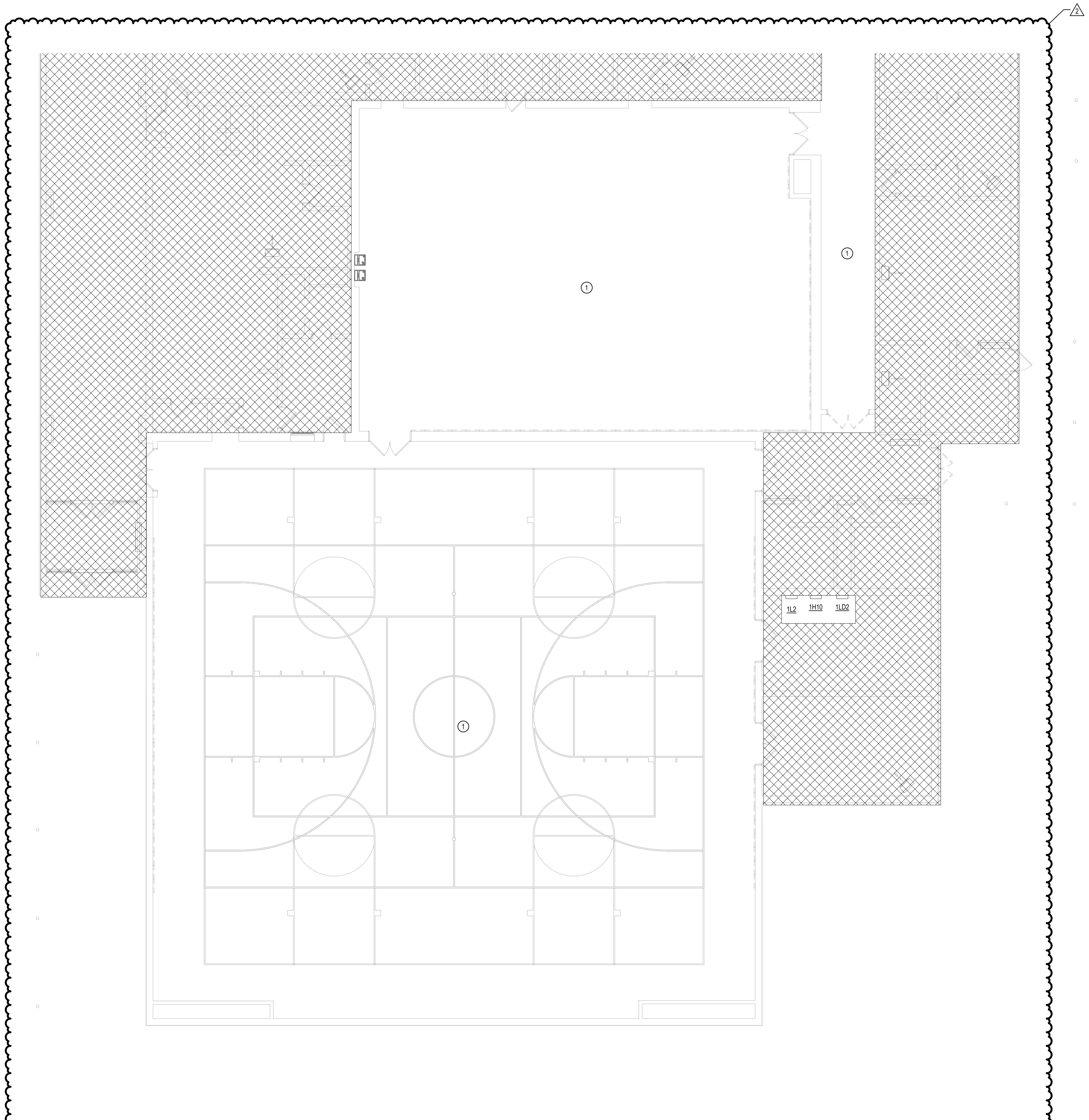
M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

FIRST FLOOR DEMOLITION ELECTRICAL PLAN - UNIT E

ED1E1



1 FIRST FLOOR DEMOLITION ELECTRICAL PLAN - UNIT F

1/8" = 1'-0"

GENERAL NOTES

- A REFER TO SHEET E000 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
- B NOT ALL ITEMS TO BE DEMOLISHED ARE SHOWN. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, DEVICES, ASSOCIATED RACEWAYS, SUPPORTING HARDWARE, AND WIRING, WHICH HAVE BEEN MADE OBSOLETE BY THE NEW WORK, UNLESS OTHERWISE NOTED. VISIBLY EXAMINE ALL AREAS, WALLS AND CEILINGS SCHEDULED FOR REMOVAL TO DETERMINE EXACT QUANTITIES REQUIRED TO BE REMOVED.
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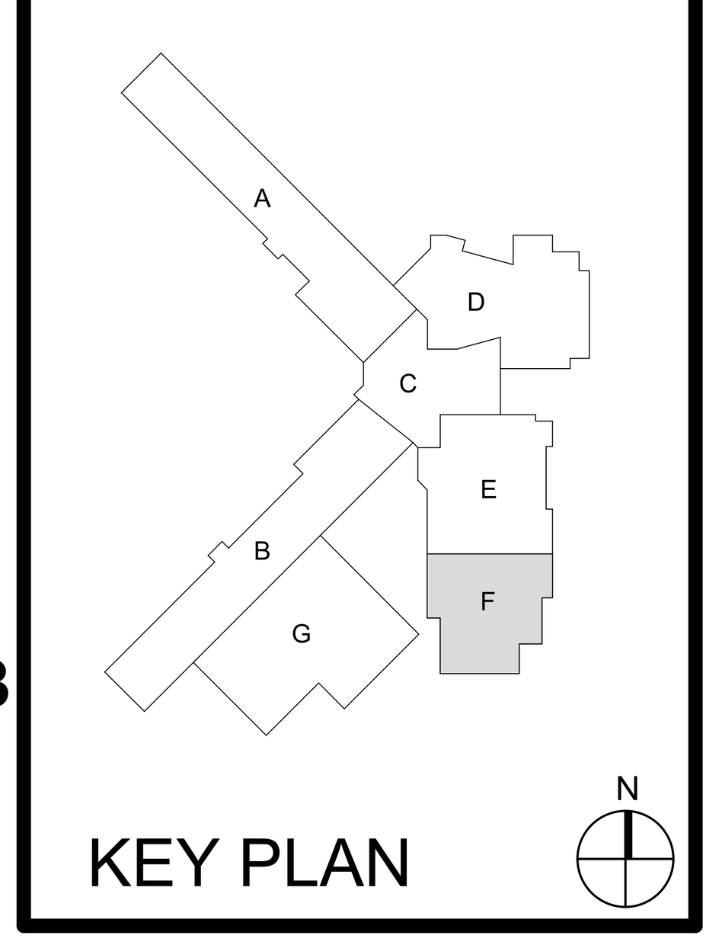

KEY PLAN

M.S.D. of Washington Township

WASHINGTON
TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

FIRST FLOOR DEMOLITION ELECTRICAL PLAN - UNIT F

ED1F1

ED1F1_ FIRST FLOOR DEMOLITION ELECTRICAL PLAN - UNIT F
2019-067.OSC_M.S.D. of Washington Township_SERVICES CENTER RENOVATION - PHASE 6B_
Autodesk Docs://23166 MSDWT Service Center/23166 MSDWT Service Center MEP v22.rvt
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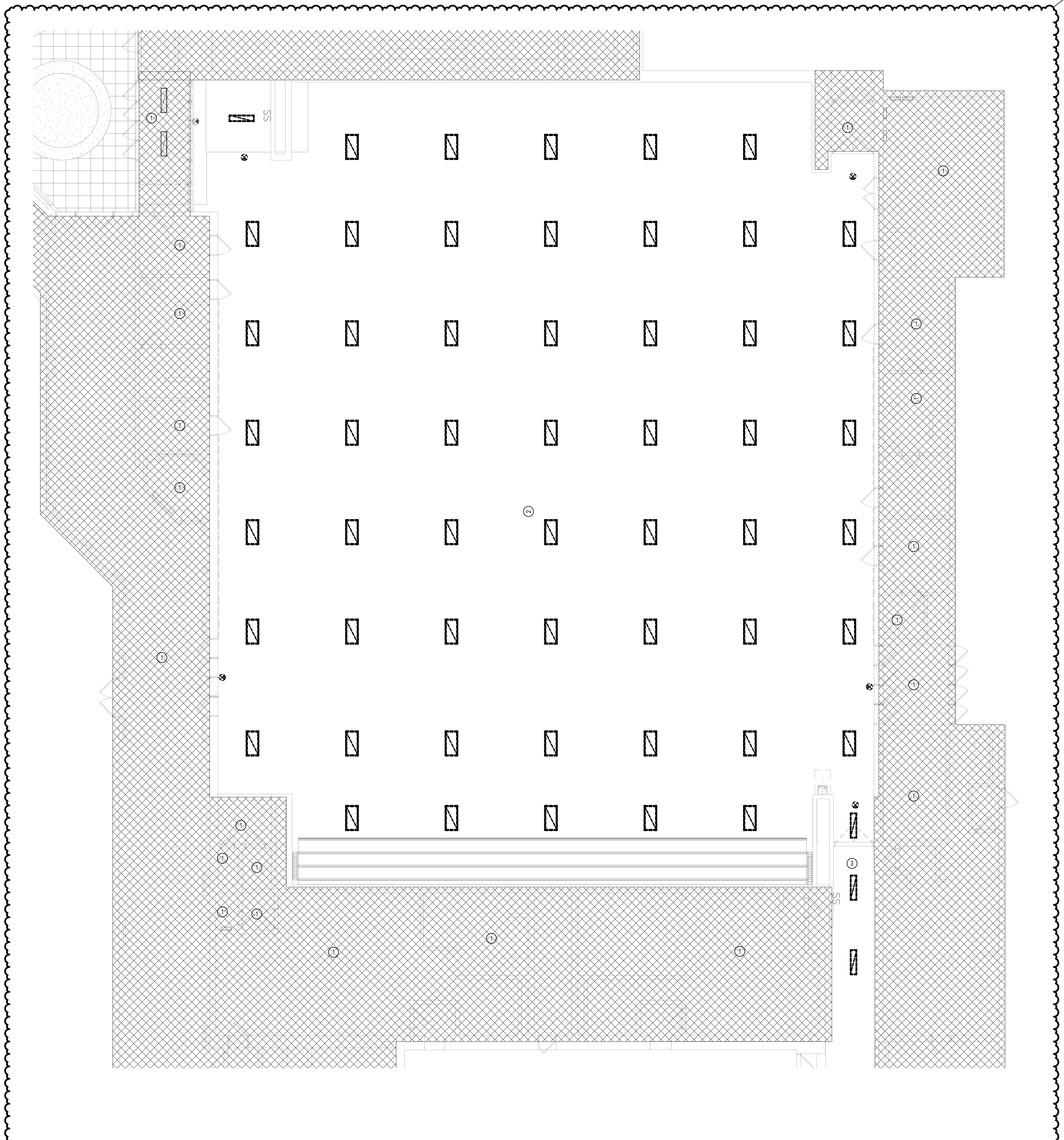

1 FIRST FLOOR DEMOLITION LIGHTING PLAN - UNIT E

1/8" = 1'-0"

GENERAL NOTES

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B NOT ALL ITEMS TO BE DEMOLISHED ARE SHOWN. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, DEVICES, ASSOCIATED RACEWAYS, SUPPORTING HARDWARE, AND WIRING, WHICH HAVE BEEN MADE OBSOLETE BY THE NEW WORK, UNLESS OTHERWISE NOTED. VISIBLY EXAMINE ALL AREAS, WALLS AND CEILINGS SCHEDULED FOR REMOVAL TO DETERMINE EXACT QUANTITIES REQUIRED TO BE REMOVED.

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SHEET KEYNOTES

1 NO WORK IN THIS SPACE. NOT INCLUDED IN SCOPE.

2 DISCONNECT AND REMOVE EXISTING HIGH-BAY LIGHT FIXTURES, EXIT SIGNS AND CONTROLS IN THIS ROOM AND MAINTAIN LIGHT FIXTURE LOCATION FOR INSTALLATION OF NEW LIGHT FIXTURE, UNLESS NOTED OTHERWISE. SEE NEW LIGHTING PLANS FOR ADDITIONAL INFORMATION.

3 DISCONNECT AND REMOVE EXISTING HIGH-BAY LIGHT FIXTURES, EXIT SIGNS AND CONTROLS IN THIS ROOM AND MAINTAIN LIGHT FIXTURE LOCATION FOR INSTALLATION OF NEW LIGHT FIXTURE, UNLESS NOTED OTHERWISE. SEE NEW LIGHTING PLANS FOR ADDITIONAL INFORMATION.

SCHMIDT ASSOCIATES
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Project Date 07.31.2024
Produced KJE

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OLUWASEUN ODUKOMAIYA
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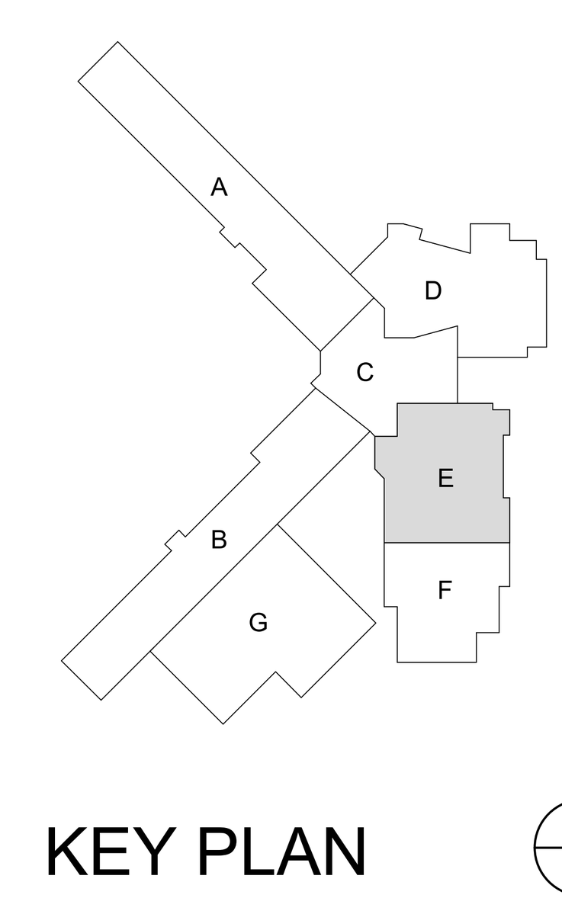
No. 11300632
STATE OF INDIANA
PROFESSIONAL ENGINEER
7/31/2024

#	Revision	Date
2	ADDENDUM #2	08.29.2024

8401 Westfield Blvd
Indianapolis, IN 46240



KEY PLAN

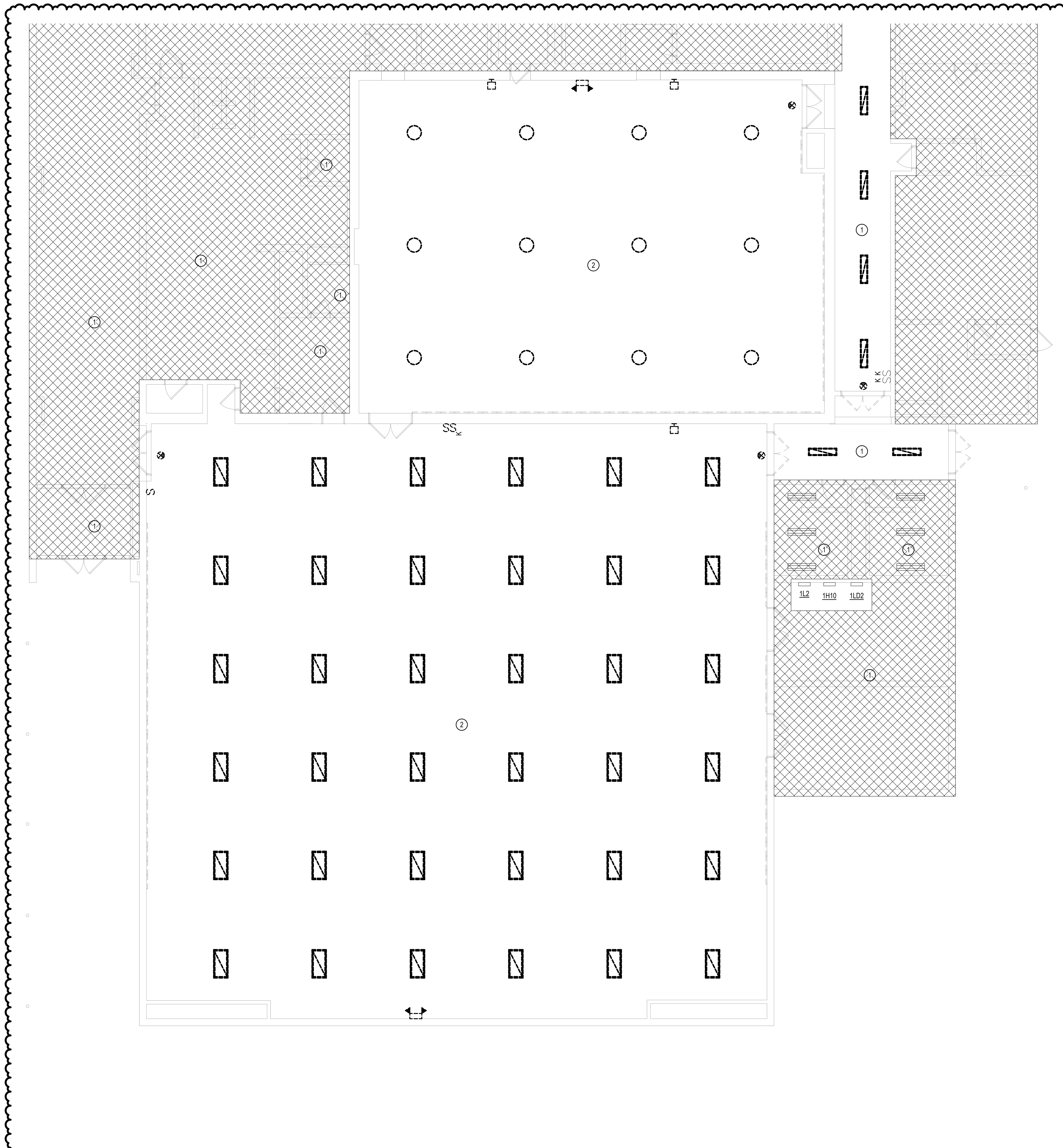
M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

FIRST FLOOR DEMOLITION LIGHTING PLAN - UNIT E

EDL1E1



1 FIRST FLOOR DEMOLITION LIGHTING PLAN - UNIT F
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GENERAL NOTES

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SHEET KEYNOTES

1 NO WORK IN THIS SPACE. NOT INCLUDED IN SCOPE.

2 DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND LIGHTING CONTROLS IN THIS ROOM AND RETAIN LIGHT FIXTURE LOCATION FOR INSTALLATION OF NEW LIGHT FIXTURE, UNLESS NOTED OTHERWISE. SEE NEW LIGHTING PLANS FOR ADDITIONAL INFORMATION.

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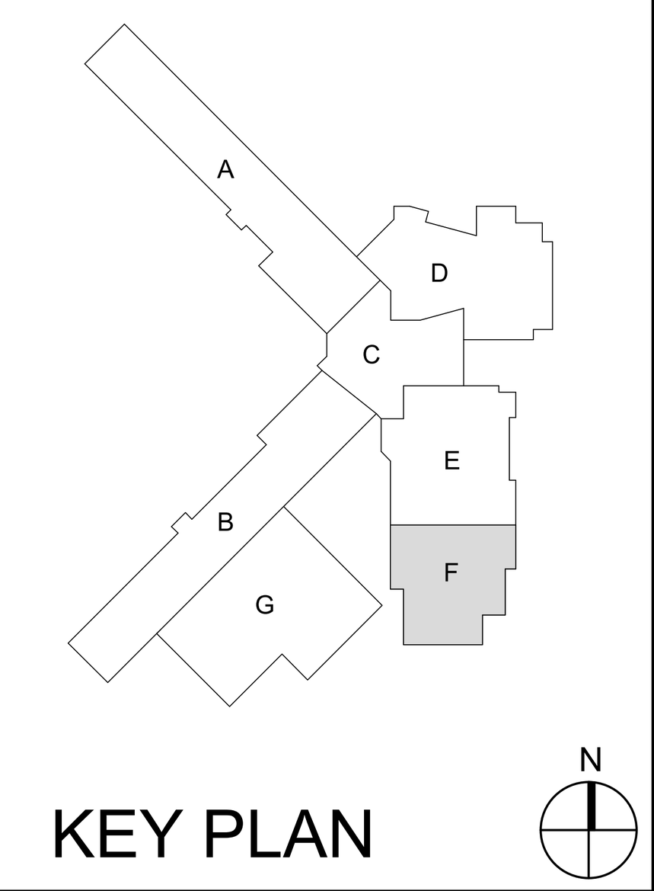


KEY PLAN

M.S.D. of Washington Township

WASHINGTON
TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

FIRST FLOOR DEMOLITION LIGHTING PLAN - UNIT F

EDL1F1

GENERAL NOTES

A REFER TO SHEET E000 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.

B REFER TO E600 SERIES FOR LIGHT FIXTURE SCHEDULES AND PANEL SCHEDULES.

C COORDINATE INSTALLATION OF LIGHT FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLANS, ARCHITECTURAL ELEVATIONS, MECHANICAL EQUIPMENT, DIFFUSERS, SUPPORTS, PIING, DUCTWORK AND STRUCTURAL PLANS PRIOR TO ROUGH-IN. IN AREAS OF CEILING REPLACEMENT, REMOVE EXISTING LIGHTS AND MAINTAIN EXISTING CIRCUITS FOR ONE FOR ONE DIRECT REPLACEMENT WITH NEW FIXTURES AS SHOWN.

D GROUP OCCUPANCY SENSORS TO CONTROL UNBROKEN SECTIONS OF HALLWAY.

E ALL COVER PLATES FOR ELECTRICAL DEVICES SHALL BE OF A COLOR TO MATCH THE AREA COLOR SCHEME AS DIRECTED BY THE ARCHITECT.

F WHERE POSSIBLE, REUSE EXISTING BACKBOX FOR NEW LIGHTING CONTROLS.

G EMERGENCY LIGHTING SHOWN ON THIS DRAWING INDICATES CODE REQUIRED EMERGENCY.

H LABEL ALL RELAYS AND POWER SUPPLIES (ON THE DEVICE OR ON THE BOX THEY ARE CONNECTED TO) WITH THE AREA THE DEVICE SERVES, THE BRANCH CIRCUIT IT CONTROLS AND THE DEVICE ADDRESS (IF APPLICABLE).

I REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ROOM AND AREA FINISHES, CEILING PLANS, DOOR SWINGS, FIRE RATED PARTITIONS, CABINET AND CASEWORK AND BUILT-IN DETAILS.

J UNLESS OTHERWISE NOTED, ALL NEW LIGHT FIXTURES SHALL BE CONNECTED TO EXISTING CIRCUIT SERVING PREVIOUSLY DEMOLISHED LIGHT FIXTURES WITHIN THE SAME ROOM.

K WHERE MULTIPLE SWITCHES ARE SHOWN ADJACENT TO EACH OTHER, GANG TOGETHER IN SINGLE FACEPLATE WITH MULTIPLE SWITCH OUTLET.

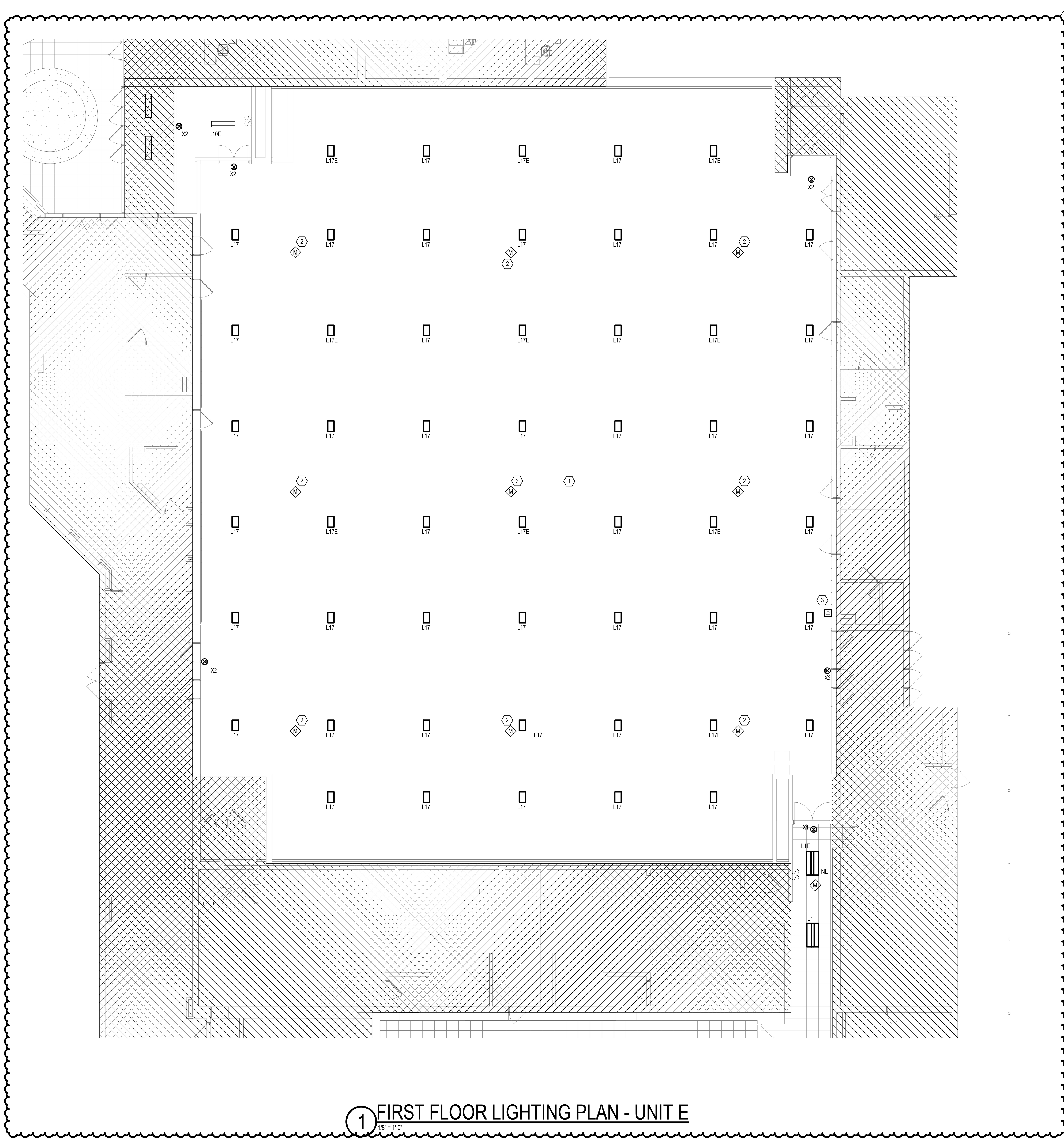
L LOCATE CEILING MOUNTED OCCUPANCY SENSORS TO PROVIDE COMPLETE AREA COVERAGE OF THE SPACE THAT THEY ARE INSTALLED IN. SELECT PROPER SENSOR COVERAGE PATTERN FROM MANUFACTURER'S PRODUCT DATA TP DETERMINE COVERAGE. ADDITIONAL SENSORS REQUIRED DUE TO LACK OF COVERAGE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE MANUFACTURER. SENSORS SHALL INCLUDE ALL POWER SUPPLIES AND RELAYS NECESSARY FOR PROPER OPERATION.

SHEET KEYNOTES

1 BASE BID: NO WORK IN THIS SPACE. NOT INCLUDED IN SCOPE.
ALTERNATE BID: PROVIDE NEW HIGH BAY LIGHT FIXTURES, EXIT SIGNS AND LIGHTING CONTROLS IN THIS SPACE. REUSE EXISTING CIRCUITRY. LIGHT FIXTURES AND CONTROLS THROUGHOUT THIS SPACE ARE OWNER PROVIDED.
CONTACT: ROB ANNEE WITH FLEX GREEN LIGHTING.
R.ANNEE@FLEXGREENLIGHT.COM, (317) 535-5337

2 PROVIDE PIR HIGH MOUNT 360 DEGREE OCCUPANCY SENSOR.

3 PROVIDE 4-ZONE LIGHTING CONTROL STATION WITH ON/OFF/RAISE/LOWER AND PRESET SCENES. CONFIRM EXACT LOCATION WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.



1 FIRST FLOOR LIGHTING PLAN - UNIT E
1/8" = 1'-0"

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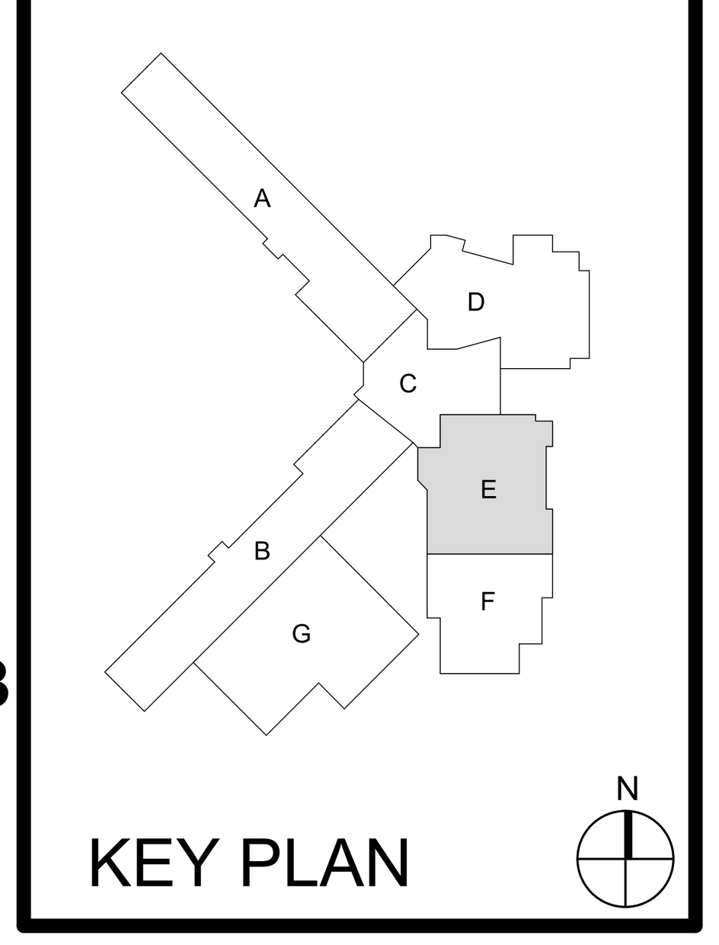


KEY PLAN

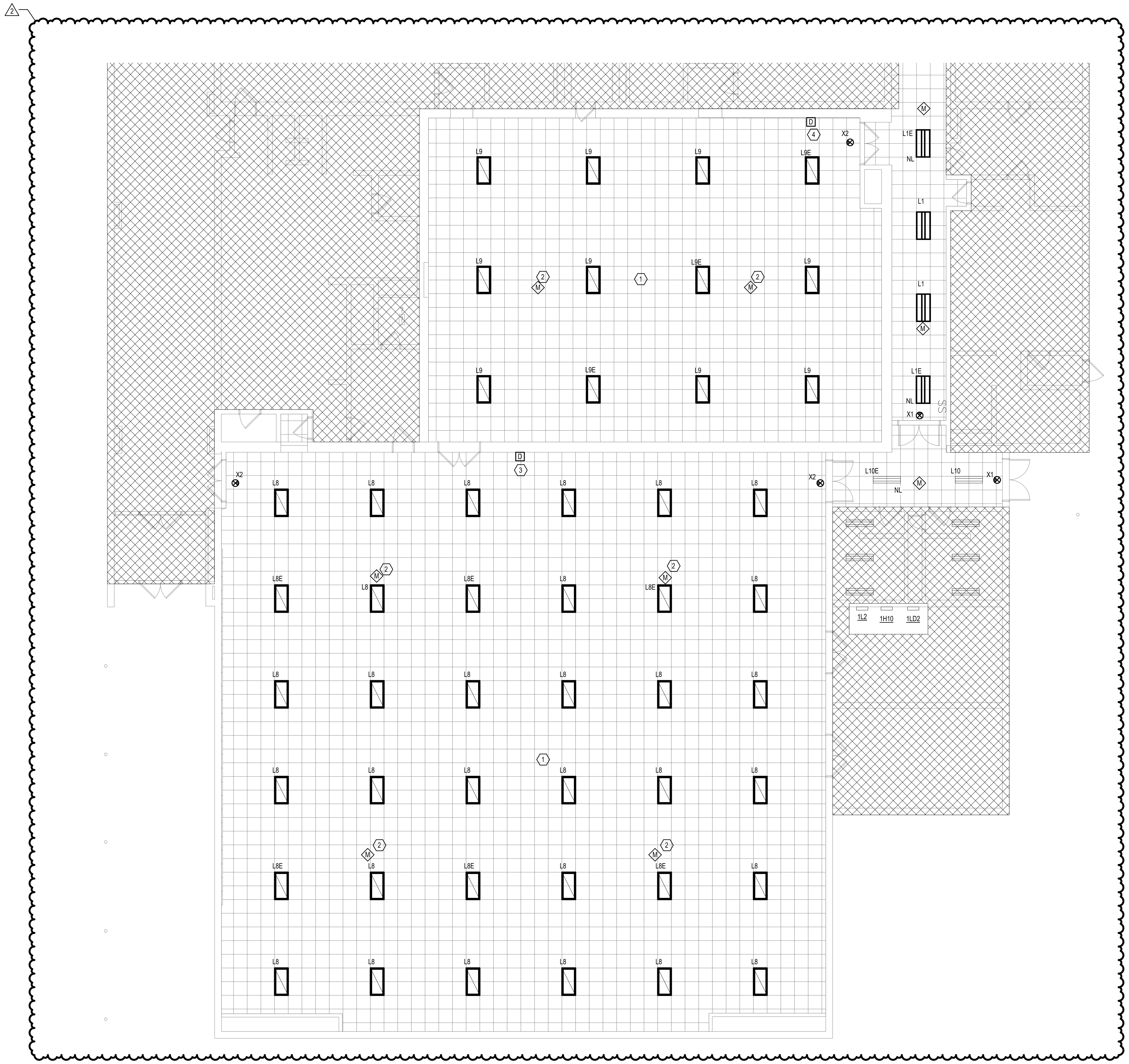
M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

FIRST FLOOR LIGHTING PLAN - UNIT E

EL1E1



1 FIRST FLOOR LIGHTING PLAN - UNIT F
1/8" = 1'-0"

GENERAL NOTES

A REFER TO SHEET E000 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.

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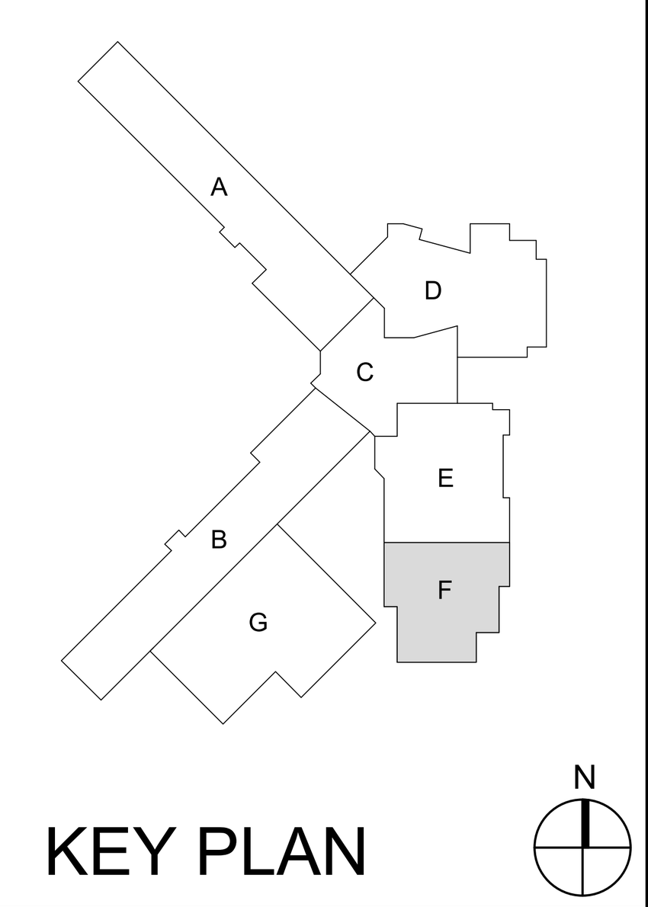
KBSO #23166 7/31/2024

#	Revision	Date
	ADDENDUM #2	08.29.2024

8401 Westfield Blvd
Indianapolis, IN 46240



KEY PLAN

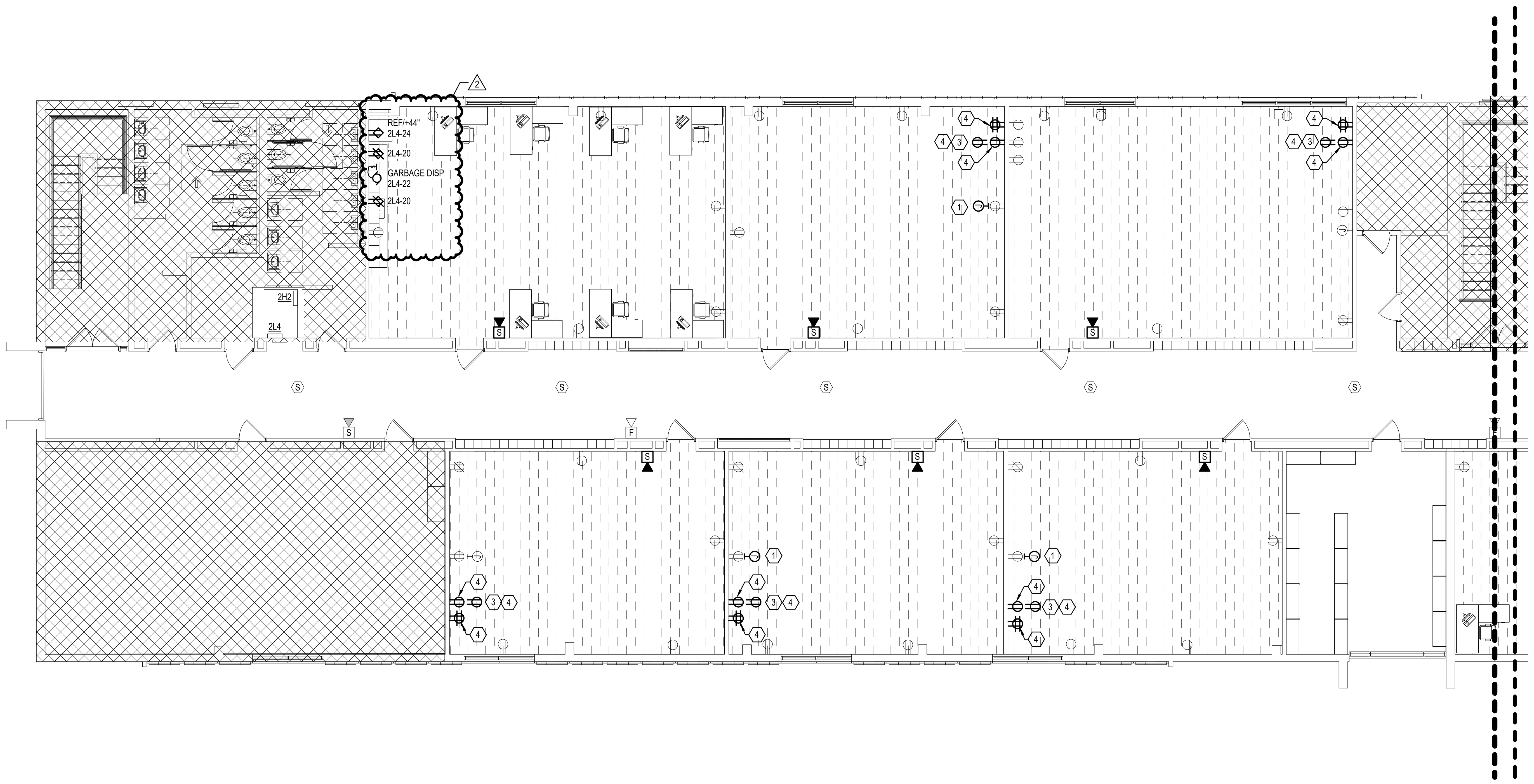
M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

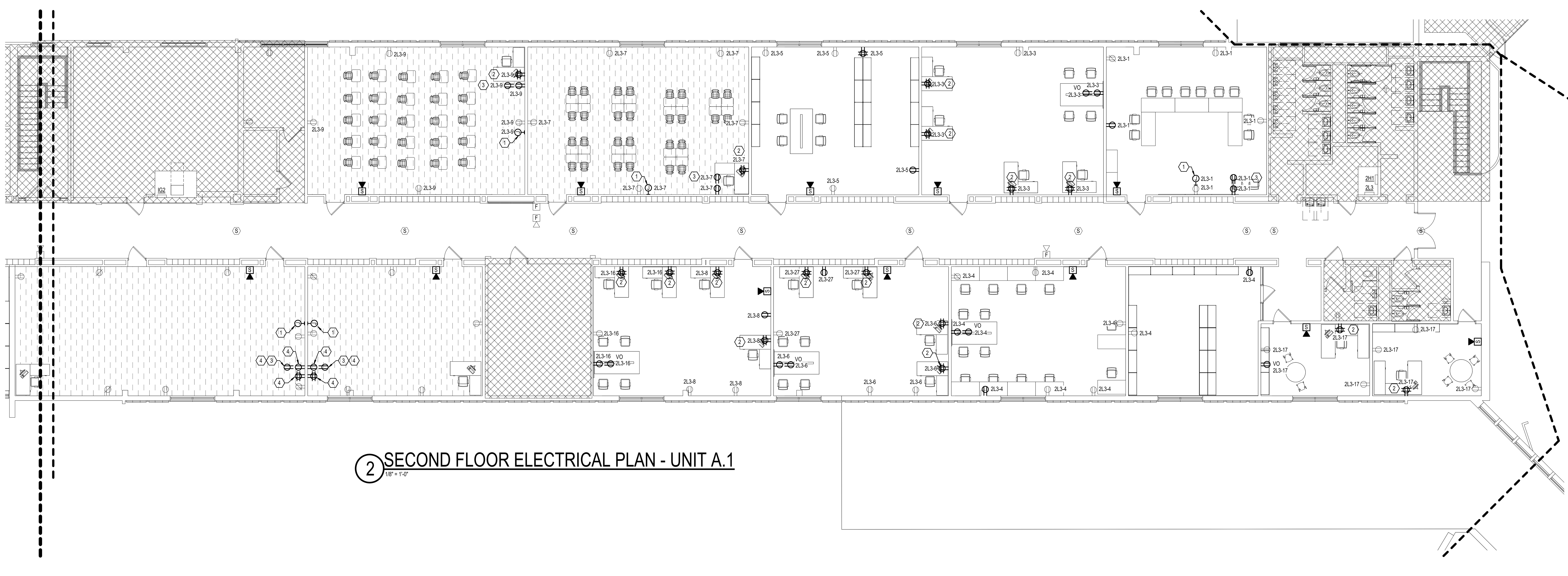
SERVICES CENTER RENOVATION - PHASE 6B

FIRST FLOOR LIGHTING PLAN - UNIT F

EL1F1



1 SECOND FLOOR ELECTRICAL PLAN - UNIT A.2
1/8" = 1'-0"



2 SECOND FLOOR ELECTRICAL PLAN - UNIT A.1
1/8" = 1'-0"

GENERAL NOTES

A REFER TO SHEET E000 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
B REFER TO E600 SERIES SHEETS FOR LOAD PANEL SCHEDULES.
C VERIFY HEIGHT OF ALL COUNTERTOP RECEPTACLES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
D ALL EXISTING FIRE ALARM DEVICES SHOWN TO WORK AS AN EXTENTION OF NEW FIRE ALARM SYSTEM. EXTEND NEAREST NOTIFICATION AND DETECTION CIRCUITS TO ACCOMMODATE NEW DEVICES. DOCUMENT HALLWAY TIE-IN LOCATION SO DEVICES CAN BE TRANSFERRED OVER TO NEW BUILDNG SYSTEM WITH MINIMAL SHUTDOWN.
E ALL HATCHED REGIONS TO BE CONSIDERED OUT OF SCOPE.
E RECEPTACLES TAGGED WITH "VO" TO BE INSTALLED INSIDE VIDEO OUTPUT BOX. COORDINATE INSTALLATION WITH A/V INSTALER PRIOR TO ROUGH-IN.
F CIRCUIT TAG UNDER ROOM NAME INDICATES ALL DEVICES IN ROOM ARE ON INDICATED CIRCUIT UNLESS OTHERWISE NOTED.

SHEET KEYNOTES

1 PROVIDE 120V, 20A, 1P ELECTRICAL CONNECTION TO NEW SHORT THROW PROJECTOR. ROUTE 2#12 & 1#12GND IN 3/4"CONDUIT. COORDINATE HEIGHT WITH PROJECTOR INSTALLER PRIOR TO ROUGH-IN.
2 SURFACE MOUNTED QUADRIPLEX FOR NEW COMPUTERS. COORDINATE LOCATION AND HEIGHT WITH TECHNOLOGY DRAWINGS PRIOR TO ROUGH-IN.
3 COORDINATE RECEPTACLE HEIGHT WITH TECHNOLOGY DRAWINGS PRIOR TO ROUGH-IN.
4 CONNECT NEW RECEPTACLE TO EXISTING LOCAL RECEPTACLE CIRCUIT SERVING THIS ROOM.

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.OSC
Project Date 07.31.2024
Produced NEM

OLUWASEUN ODUKOMAIYA — REGISTERED No. 11300632 — STATE OF INDIANA — PROFESSIONAL ENGINEER — KBSO #23166 — 7/31/2024

#	Revision	Date
	ADDENDUM #1	08.22.2024
	ADDENDUM #2	08.29.2024

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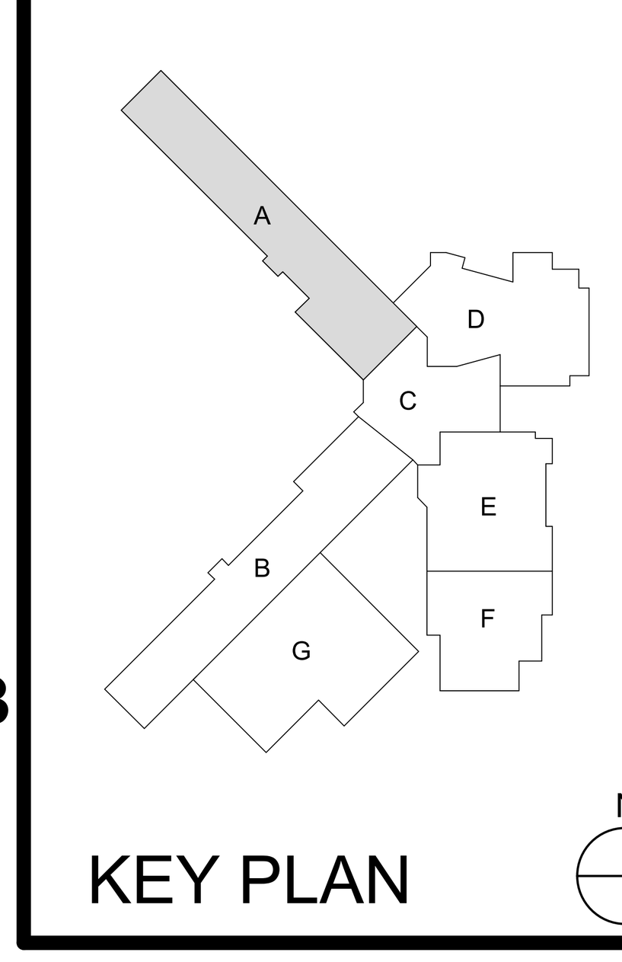
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

SECOND FLOOR ELECTRICAL PLAN - UNIT A

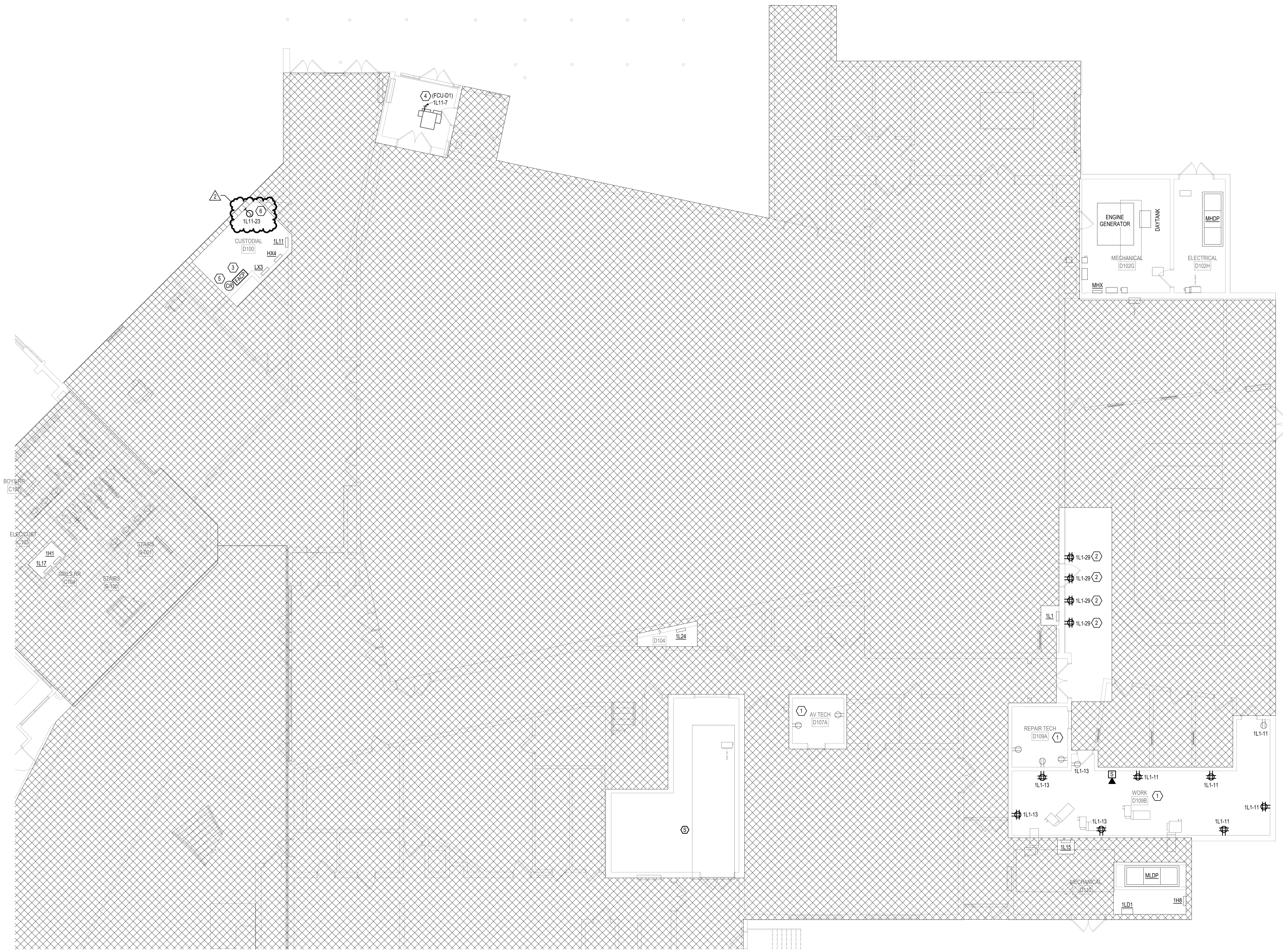
EP1A2

GENERAL NOTES

- A REFER TO SHEET E000 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
- B REFER TO E600 SERIES SHEETS FOR LOAD PANEL SCHEDULES.
- C VERIFY HEIGHT OF ALL COUNTERTOP RECEPTACLES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
- D ALL EXISTING FIRE ALARM DEVICES SHOWN TO WORK AS AN EXTENTION OF NEW FIRE ALARM SYSTEM. EXTEND NEAREST NOTIFICATION AND DETECTION CIRCUITS TO ACCOMMODATE NEW DEVICES. DOCUMENT HALLWAY TIE-IN LOCATION SO DEVICES CAN BE TRANSFERRED OVER TO NEW BUILDNG SYSTEM WITH MINIMAL SHUTDOWN.
- E ALL HATCHED REGIONS TO BE CONSIDERED OUT OF SCOPE.
- E RECEPTACLES TAGGED WITH "VO" TO BE INSTALLED INSIDE VIDEO OUTPUT BOX. COORDINATE INSTALLATION WITH A/V INSTALER PRIOR TO ROUGH-IN.
- F CIRCUIT TAG UNDER ROOM NAME INDICATES ALL DEVICES IN ROOM ARE ON INDICATED CIRCUIT UNLESS OTHERWISE NOTED.

SHEET KEYNOTES

1. IN CEILINGS NOTED TO BE REPLACED BY ARCHTECT, FIRE ALARM DEVICES TO BE REMOVED FROM EXISTING CEILING AND SUPPORTED ABOVE CEILING TO BE INSTALLED IN NEW CEILING WHEN INSTALLED.
2. SURFACE MOUNTED QUADRIPLEX FOR NEW COMPUTERS. COORDINATE LOCATION AND HEIGHT WITH TECHNOLOGY DRAWINGS PRIOR TO ROUGH-IN.
3. EXTEND EXISTING CONDUIT AS NEEDED TO ACCOMMODATE FOR NEW FACP.
4. PROVIDE 120V, 30A, 1P ELECTRICAL CONNECTION FOR FAN COIL UNIT. ROUTE 2#10 & 1#10 GND IN 3/4" CONDUIT.
5. PROVIDE OUTPUT RELAY FROM NEW FIRE ALARM SYSTEM TO BUILDING PAGING AND INTERCOM SYSTEM. REFER TO TECHNOLOGY PAGING AV DIAGRAM FOR MORE INFORMATION.
6. PROVIDE 120V, 20A, 1P ELECTRICAL CONNECTION FOR NEW AUTOMATION ANNUNCIATOR PANEL. ROUTE 2#12 & 1#12G IN 3/4" CONDUIT.



1 FIRST FLOOR ELECTRICAL PLAN - UNIT D
1/8" = 1'-0"

SCHMIDT ASSOCIATES
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Indianapolis, IN 46204
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Project Date 07.31.2024
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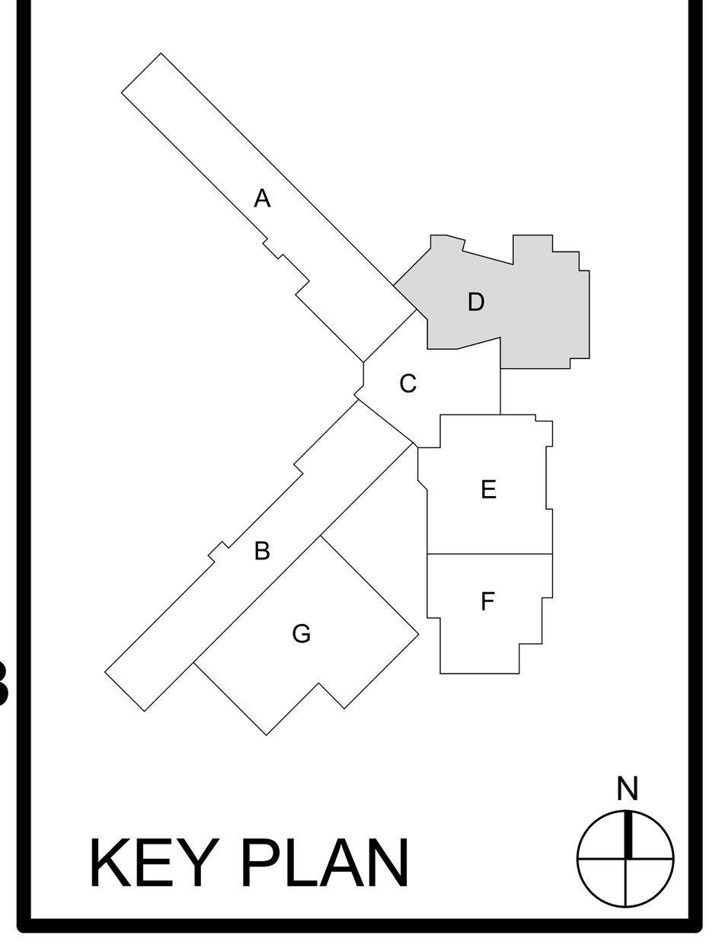
KBSO #23166
OLUWASEUN ODUKOMAIYA
REGISTERED No. 11300632
STATE OF INDIANA
PROFESSIONAL ENGINEER
7/31/2024

#	Revision	Date
	ADDENDUM #1	08.22.2024
	ADDENDUM #2	08.29.2024

8401 Westfield Blvd
Indianapolis, IN 46240



KEY PLAN

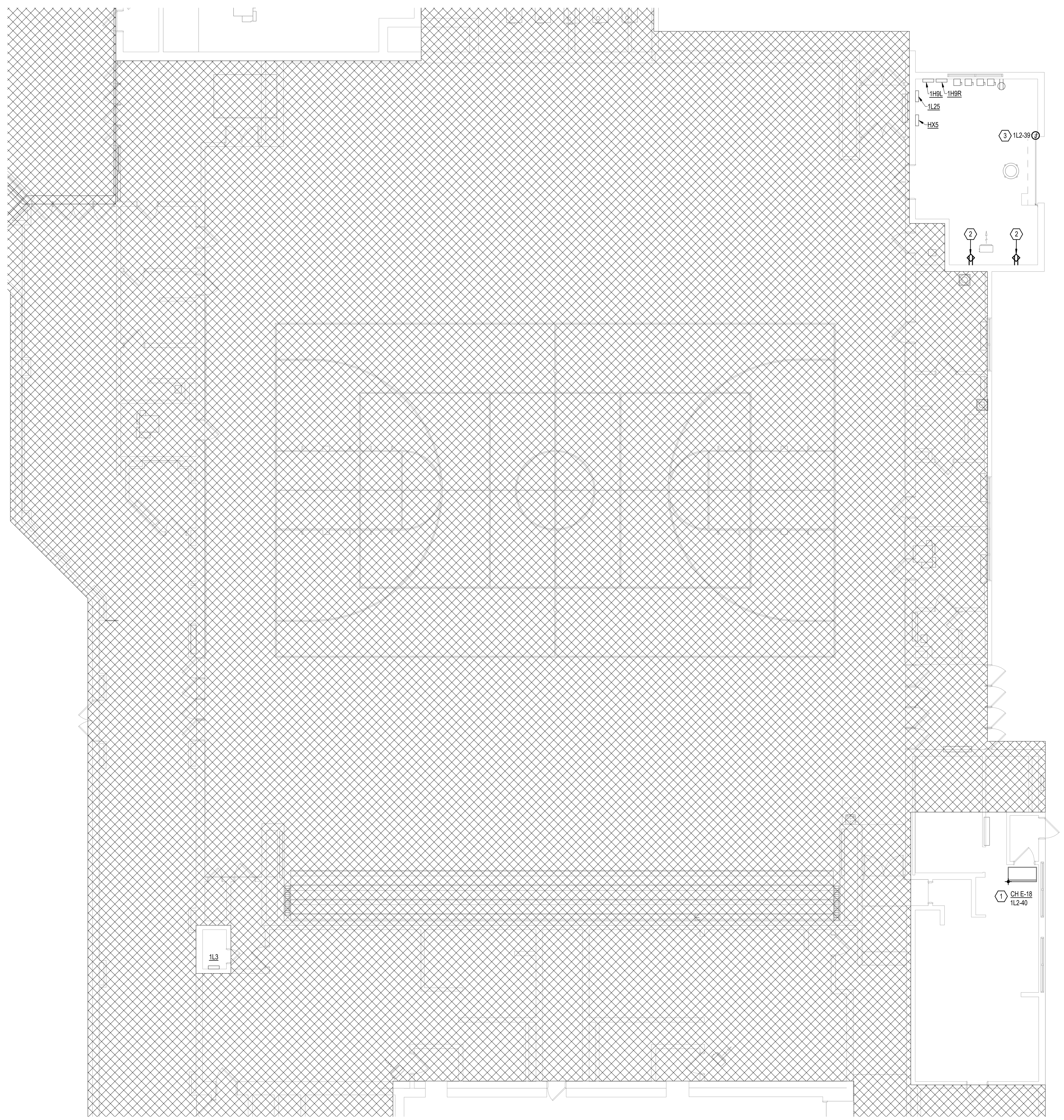
M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

FIRST FLOOR ELECTRICAL PLAN - UNIT D

EP1D1



1 FIRST FLOOR ELECTRICAL PLAN - UNIT E
1/8" = 1'-0"

GENERAL NOTES

A REFER TO SHEET E000 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.

B REFER TO E600 SERIES SHEETS FOR LOAD PANEL SCHEDULES.

C VERIFY HEIGHT OF ALL COUNTERTOP RECEPTACLES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.

D ALL EXISTING FIRE ALARM DEVICES SHOWN TO WORK AS AN EXTENTION OF NEW FIRE ALARM SYSTEM. EXTEND NEAREST NOTIFICATION AND DETECTION CIRCUITS TO ACCOMMODATE NEW DEVICES. DOCUMENT HALLWAY TIE-IN LOCATION SO DEVICES CAN BE TRANSFERRED OVER TO NEW BUILDNG SYSTEM WITH MINIMAL SHUTDOWN.

E ALL HATCHED REGIONS TO BE CONSIDERED OUT OF SCOPE.

E RECEPTACLES TAGGED WITH "VO" TO BE INSTALLED INSIDE VIDEO OUTPUT BOX. COORDINATE INSTALLATION WITH A/V INSTALER PRIOR TO ROUGH-IN.

F CIRCUIT TAG UNDER ROOM NAME INDICATES ALL DEVICES IN ROOM ARE ON INDICATED CIRCUIT UNLESS OTHERWISE NOTED.

SHEET KEYNOTES

1 PROVIDE 120V, 20A, 1P ELECTRICAL CONNECTION FOR UNIT HEATER. ROUTE 2#12 & 1#12 GND IN 3/4" CONDUIT.

2 CONNECT NEW RECEPTACLE TO EXISTING LOCAL RECEPTACLE CIRCUIT SERVING THIS ROOM.

3 PROVIDE 120V, 20A, 1P ELECTRICAL CONNECTION FOR NEW OVERHEAD DOOR. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.

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Indianapolis, IN 46204
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	ADDENDUM #1	08.22.2024
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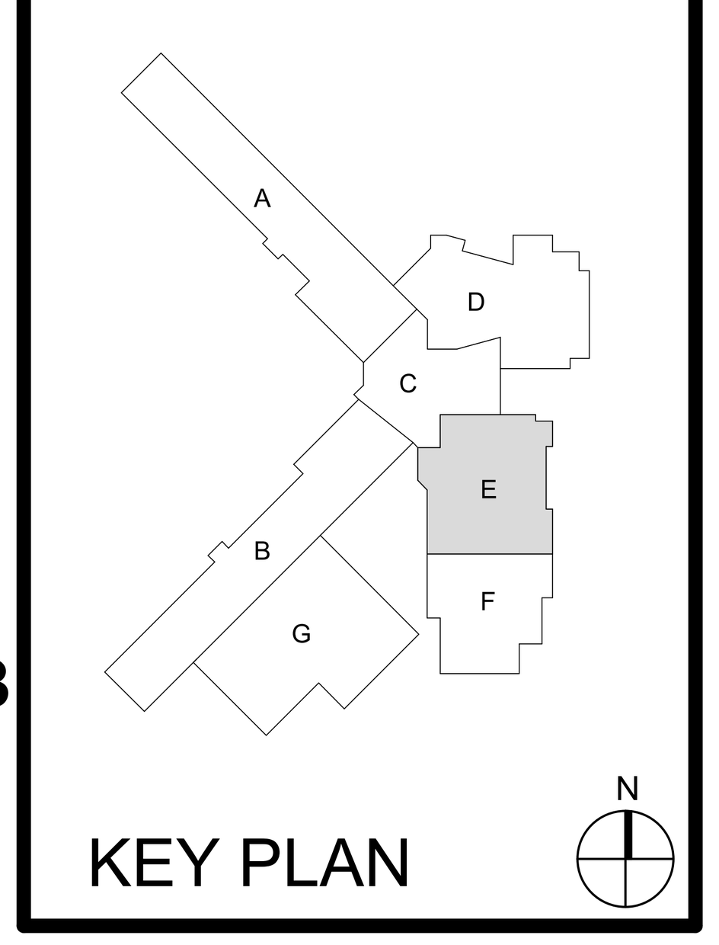


KEY PLAN

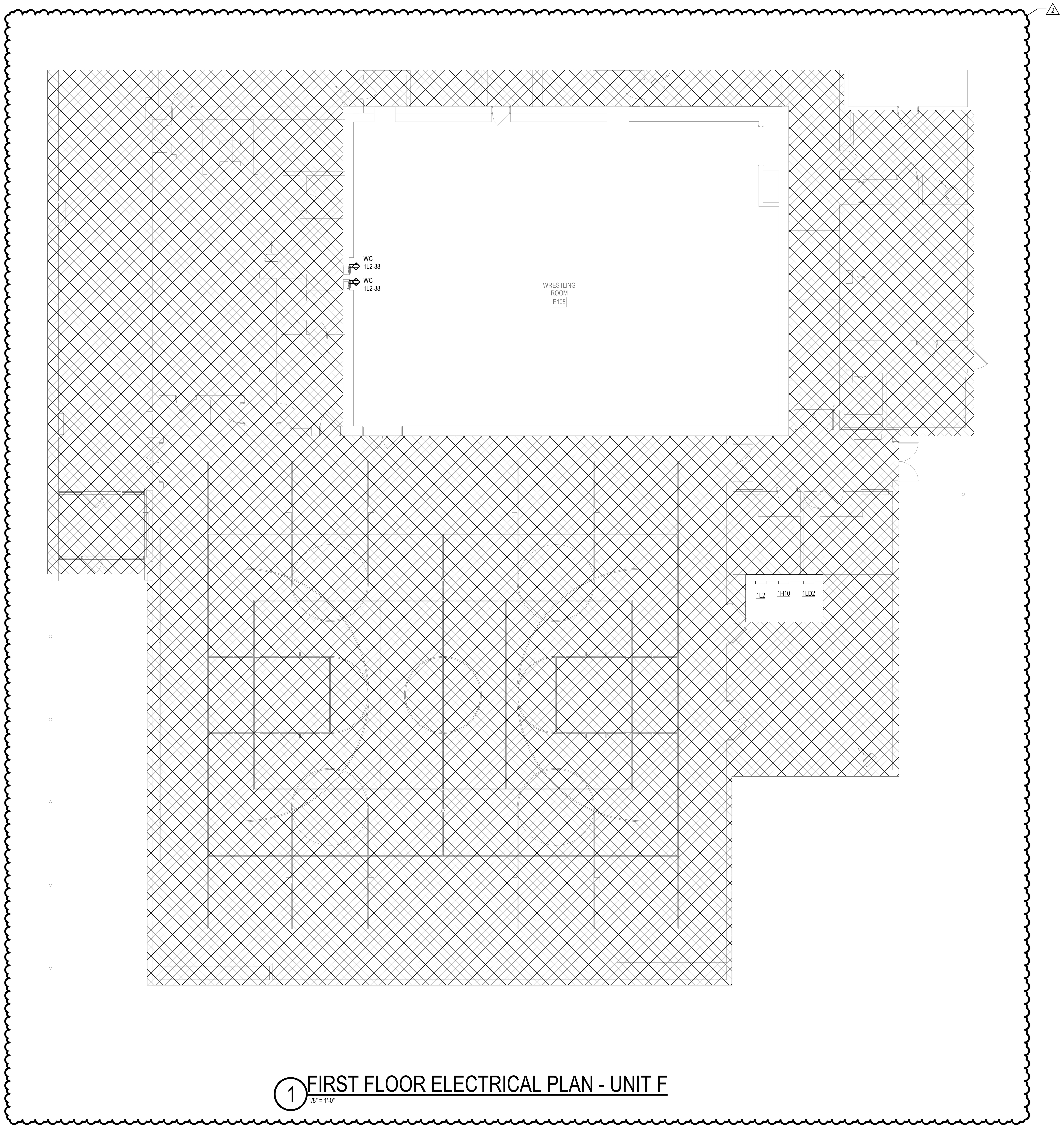
M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

FIRST FLOOR ELECTRICAL PLAN - UNIT E

EP1E1



1 FIRST FLOOR ELECTRICAL PLAN - UNIT F
1/8" = 1'-0"

GENERAL NOTES

A REFER TO SHEET E000 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
B REFER TO E600 SERIES SHEETS FOR LOAD PANEL SCHEDULES.
C VERIFY HEIGHT OF ALL COUNTERTOP RECEPTACLES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
D ALL EXISTING FIRE ALARM DEVICES SHOWN TO WORK AS AN EXTENTION OF NEW FIRE ALARM SYSTEM. EXTEND NEAREST NOTIFICATION AND DETECTION CIRCUITS TO ACCOMMODATE NEW DEVICES. DOCUMENT HALLWAY TIE-IN LOCATION SO DEVICES CAN BE TRANSFERRED OVER TO NEW BUILDNG SYSTEM WITH MINIMAL SHUTDOWN.
E ALL HATCHED REGIONS TO BE CONSIDERED OUT OF SCOPE.
E RECEPTACLES TAGGED WITH "VO" TO BE INSTALLED INSIDE VIDEO OUTPUT BOX. COORDINATE INSTALLATION WITH A/V INSTALER PRIOR TO ROUGH-IN.
F CIRCUIT TAG UNDER ROOM NAME INDICATES ALL DEVICES IN ROOM ARE ON INDICATED CIRCUIT UNLESS OTHERWISE NOTED.

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#	Revision	Date
	ADDENDUM #2	08.29.2024

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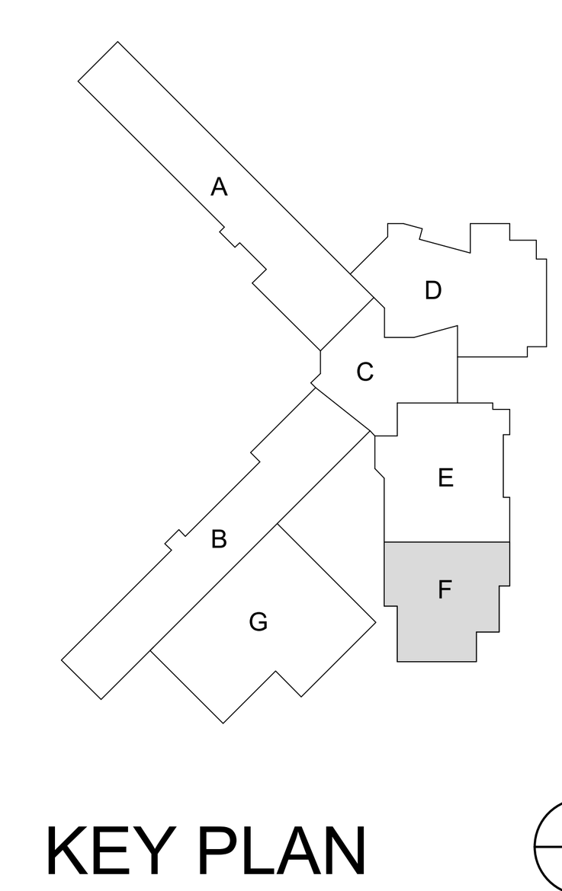

KEY PLAN

M.S.D. of Washington Township

WASHINGTON
TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

FIRST FLOOR ELECTRICAL PLAN - UNIT F

EP1F1

LIGHTING FIXTURE SCHEDULE - WAREHOUSE

NOTES:

UNIT ID	BASE MANUFACTURER	EQUAL MANUFACTURER	LAMP	VOLTS	WATTS	UNITS	LUMENS	UNITS	CCT	LOCATION(S)	MOUNT	DESCRIPTION
W1	LITHONIA: 2BLT4-48L-SDSM-MVOLT-GZ10-LP840	COLUMBIA: LCAT METALUX: CRUZE	LED	120 V	40 W	/FIXTURE	5000 LM	/FIXTURE	4000K	CORRIDORS/OFFICES	RECESSED	2' X 4' ARCHITECTURAL TROFFER WITH CENTER BASKET LENS. 0-10V DIMMING TO 10%.
W1E	LITHONIA: 2BLT4-48L-SDSM-MVOLT-GZ10-LP840	COLUMBIA: LCAT METALUX: CRUZE	LED	120 V	40 W	/FIXTURE	5000 LM	/FIXTURE	4000K	CORRIDORS/OFFICES	RECESSED	2' X 4' ARCHITECTURAL TROFFER WITH CENTER BASKET LENS. 0-10V DIMMING TO 10%.
W2	MARK: S2PID-X-X-90CRI-40K-1000LMF-DBW-I90CRI0I40K-IT400LMF-BW-SCT-MIN10-FLL-DCF-MVOLT-X-RDCY-X-X	LITECONTROL STARTEK	LED	120 V	18 W	/FOOT	I-1400 LM/ D-1000 LM	/FOOT	4000K	OFFICE	STEM	STEM MOUNT, 2"WIDE X 4.5"H DIRECT/INDIRECT FIXTURE WITH DIRECT AND INDIRECT BATWING DISTRIBUTION. 0-10V DIM. ARCHITECT TO SELECT FINISH.
W3	LITHONIA: CLX-L48-5000LM-SEF-WDL-MVOLT-GZ10-40K-80CRI-WH-ZACVHM100	COLUMBIA: MPS METALUX: SNLED	LED	120 V	32 W	/FIXTURE	5000 LM	/FIXTURE	4000K	STORAGE/EQUIP	SUSPENDED	SUSPENDED 4'L STRIP FIXTURE WITH WIDE DIFFUSE LENS AND 0-10V DIM. MOUNT AT SAME HEIGHT AS EXISTING LIGHT FIXTURES.
W4	VERSALED: HLLB1-F-40L-QT-40K-40D-C1D2-HLLB1-F-PM-F-FGG	PRE-APPROVED EQUAL	LED	120 V	0 W	/FIXTURE	5200 LM	/FIXTURE	4000K	PAINT STORAGE	STEM	STEM MOUNT HAZARDOUS LOCATION LOWBAY FIXUTRE WITH FROSTED GLASS GLOBE AND GUARD. MOUNT FIXTURE AT SAME HEIGHT AS EXISTING FIXTURES.
W5	LITHONIA: CLX-L96-5000LM-SEF-WDL-MVOLT-GZ10-40K-80CRI-WH-ZACVHM100	COLUMBIA: MPS METALUX: SNLED	LED	120 V	64 W	/FIXTURE	10000 LM	/FIXTURE	4000K	STORAGE/EQUIP.	SUSPENDED	SUSPENDED 8'L STRIP FIXTURE WITH WIDE DIFFUSE LENS AND 0-10V DIM. MOUNT AT SAME HEIGHT AS EXISTING LIGHT FIXTURES.
W5E	LITHONIA: CLX-L96-5000LM-SEF-WDL-MVOLT-GZ10-40K-80CRI-WH-ZACVHM100-E10WC	COLUMBIA: MPS METALUX: SNLED	LED	120 V	64 W	/FIXTURE	10000 LM	/FIXTURE	4000K	STORAGE/EQUIP.	SUSPENDED	SAME AS TYPE 'W5' WITH INTEGRAL EMERGENCY BATTERY.
W6	LITHONIA: FEM-L48-4000LM-LPAFL-WD-MVOLT-40K-80CRI-SBOR10	COLUMBIA METALUX	LED	120 V	25 W	/FIXTURE	4000 LM	/FIXTURE	4000K	SHOWERS	SURFACE	SURFACE MOUNT LOW PROFILE ENCLOSED AND GASKETED FIXTURE WITH INTEGRAL OCCUPANCY SENSOR. RATED FOR WET LOCATIONS.
W7	LITHONIA: CLX-L24-3500LM-SEF-WDL-MVOLT-GZ10-40K-80CRI-WH	COLUMBIA: MPS METALUX: SNLED	LED	120 V	27 W	/FIXTURE	3500 LM	/FIXTURE	4000K	JANITOR	SUSPENDED	SURFACE MOUNT 2"L STRIP FIXTURE WITH WIDE DIFFUSE LENS AND 0-10V DIM. MOUNT AT SAME HEIGHT AS EXISTING LIGHT FIXTURES.
W8	LITHONIA: BLT4-30L-SDSM-MVOLT-GZ10-LP840	COLUMBIA: LCAT METALUX: CRUZE	LED	120 V	23 W	/FIXTURE	3000 LM	/FIXTURE	4000K	RESTROOMS	RECESSED	1' X 4' ARCHITECTURAL TROFFER WITH CENTER BASKET LENS. 0-10V DIMMING TO 10%.
W8E	LITHONIA: BLT4-30L-SDSM-MVOLT-GZ10-LP840-EL14L	COLUMBIA: LCAT METALUX: CRUZE	LED	120 V	23 W	/FIXTURE	3000 LM	/FIXTURE	4000K	RESTROOMS	RECESSED	SAME AS TYPE 'W8' WITH INTEGRATED EMERGENCY BATTERY.
W9	SLG: TSC-8-120-G1-FSK-X CONTACT: ROB ANNEE @ FLEX GREEN LIGHTING R.ANNEE@FLEXGREENLIGHT.COM, (317) 535-5337	OWNER PROVIDED. NO SUBSTITUTIONS.	LED	120 V	40 W	/FIXTURE	11800 LM	/FIXTURE	4000K	WAREHOUSE	SUSPENDED	SUSPENDED 8'L STRIP FIXTURE WITH FROSTED ACRYLIC LENS AND 0-10V DIM. MOUNT AT SAME HEIGHT AS EXISTING LIGHT FIXTURES.
W9E	SLG: TSC-8-120-G1-FSK-X-EMD CONTACT: ROB ANNEE @ FLEX GREEN LIGHTING R.ANNEE@FLEXGREENLIGHT.COM, (317) 535-5337	OWNER PROVIDED. NO SUBSTITUTIONS.	LED	120 V	40 W	/FIXTURE	11800 LM	/FIXTURE	4000K	WAREHOUSE	SUSPENDED	SAME AS TYPE 'W9' WITH INTEGRAL EMERGENCY BATTERY.
W11	LITHONIA: CPX-2X4-5000LM-80CRI-40K-SWL-MIN10-MVOLT	COLUMBIA METALUX	LED	120 V	40 W	/FIXTURE	5000 LM	/FIXTURE	4000K	STORAGE/SERVING	RECESSED	2' X 4' BACK LIT FLAT PANEL WITH DIFFUSED LENS.
WX1	SURE-LITES: CX-6-X-WH-SD-R	DUAL-LITE LITHONIA	LED	120 V	2 W	/FIXTURE		/FIXTURE		EGRESS PATH	UNV	UNIVERSAL MOUNT DIE-CAST ALUMINUM EXIT SIGN WITH WHITE FINISH, RED LETTERING AND NICAD BATTERY BACK UP. NUMBER OF FACES AND ARROWS AS INDICATED ON DRAWINGS.

2

Branch Panel: A

Location: MECH / ELECT... **Volts:** 120/208 Wye **A.I.C. Rating:** EXISTING
Supply From: **Phases:** 3 **Mains Type:** MCB
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 100 A
Enclosure: NEMA 1 **MCB Rating:** 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPT - OFFICE TRANSPORTATION	20 A	1	0	0					1	20 A	RECEPT - OFFICE TRANSPORTATION	2
3	RECEPT - OFFICE TRANSPORTATION	20 A	1			0	0			1	20 A	RECEPT - OFFICE TRANSPORTATION	4
5	RECEPT - OUTLET TRANSPORTATION	20 A	1					0	0	1	20 A	RECEPT - OFFICE TRANSPORTATION	6
7	RECEPT - OFFICE	20 A	1	0	0					1	20 A	RECEPT - TY'S COMPUTER	8
9	RECEPT - CAMERA STRIP	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	10
11	RECEPT - OFFICE	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	12
13	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	14
15	EXISTING CIRCUIT	20 A	1			0	0			1	20 A	EXISTING CIRCUIT	16
17	EXISTING CIRCUIT	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	18
19	EXISTING CIRCUIT	20 A	1	0	0								20
21	EXISTING CIRCUIT	20 A	1			0	0			3	20 A	PTY - B SUPRESSION SYSTEM	22
23	EXISTING CIRCUIT	20 A	1					0	0				24
25				0	746					1	20 A	COILING DOORS - RECEIVING VEST	26
27	MAIN	100 A	3			0	746			1	20 A	COILING DOORS - RECEIVING VEST	28
29								0	--	1	--	SPACE	30
			Total Load:	746 VA		746 VA		0 VA					
			Total Amps:	7 A		7 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	1492 VA	100.00%	1492 VA		
				Total Conn. Load:	1492 VA
				Total Est. Demand:	1492 VA
				Total Conn.:	4 A
				Total Est. Demand:	4 A

Notes:
EXISTING CUTLER-HAMMER - PRL1A PANELBOARD
** = REPLACE EXISTING SPACE WITH NEW CIRCUIT BREAKER.

Branch Panel: L3

Location: CARPENTRY SHOP-1 103-1 **Volts:** 120/208 Wye **A.I.C. Rating:**
Supply From: **Phases:** 3 **Mains Type:** MCB
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 225 A
Enclosure: NEMA 1

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPT - PAINT SHOP	20 A	1	0	0					1	20 A	RECEPT - WAREHOUSE	2
3	SOUTH CHORD REEL	20 A	1			0	0			1	20 A	RECEPT - WOOD SHOP	4
5	RECEPT - WOOD SHOP	20 A	1					0	0	1	20 A	RECEPT - WOOD SHOP	6
7	LTS - WOOD SHOP	20 A	1	0	0					1	20 A	RECEPT - WOOD SHOP	8
9	LTS - WOOD SHOP	20 A	1			0	0			1	20 A	RECEPT - WOOD SHOP	10
11	LTS - WOOD SHOP / STORAGE	20 A	1					0	0	1	20 A	RECEPT - WOOD SHOP	12
13	LTS - PAINT SHOP	20 A	1	0	0					1	20 A	DRILL	14
15	NORTH CHORD REEL	20 A	1			0	0			1	20 A	EXHAUST FAN #8	16
17	EXHAUST FANS #7 AND #10	20 A	1					0	0	1	20 A	EXHAUST FAN #9	18
19				0	0					1	20 A	UNIT HEATER	20
21	WOOD CUTTER	60 A	3			0	0			2	80 A	WELDING RECEPT/WOOD SHOP	22
23								0	0				24
25				0	0					2	30 A	WOOD CUTTER	26
27	LIFT	20 A	3			0	0						28
29								0	180	1	20 A	**AUTO SINK - PAINT SHOP	30
31	*CEILING FAN	20 A	1	10	180					1	20 A	**AUTO SINK - CARPENTRY SHOP	32
33	*CEILING FAN	20 A	1			10	1164			1	20 A	**F-3 - WAREHOUSE	34
35	*F-1 - MECH RM	20 A	2					804	--	1	--	SPACE	36
37				804	0								38
39	**CU-1	50 A	2			4020	0			3	100 A	WOOD CUTTER	40
41								4020	0				42
43	SPACE	--	1	--	--					1	--	SPACE	44
45	SPACE	--	1			--	--			1	--	SPACE	46
47	SPACE	--	1					--	--	1	--	SPACE	48
49	SPACE	--	1	--	--					1	--	SPACE	50
51	SPACE	--	1			--	--			1	--	SPACE	52
53	SPACE	--	1					--	--	1	--	SPACE	54
			Total Load:	994 VA		5194 VA		5004 VA					
			Total Amps:	8 A		48 A		47 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	10832 VA	100.00%	10832 VA		
RECEPT	360 VA	100.00%	360 VA	Total Conn. Load:	11192 VA
				Total Est. Demand:	11192 VA
				Total Conn.:	31 A
				Total Est. Demand:	31 A

Notes:
EXISTING SQUARE D - NQOB PANELBOARD
* = REPLACE SPARE WITH 1 POLE CIRCUIT BREAKER
** = REPLACE EXISTING SPACE WITH CIRCUIT BREAKER.

Branch Panel: L2

Location: ELECTRICAL &... **Volts:** 120/208 Wye **A.I.C. Rating:** 10000
Supply From: **Phases:** 3 **Mains Type:** MCB
Mounting: SURACE **Wires:** 4 **Mains Rating:** 225 A
Enclosure: NEMA 1

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	POWER LIFT	20 A	1	0	0					1	20 A	COMPRESSOR	2
3	POWER LIFT	20 A	1			0	0			1	20 A	COMPRESSOR	4
5	POWER LIFT	20 A	1					0	0	1	20 A	COMPRESSOR	6
7	RECEPT - YARD SHOP	20 A	1	0	0					1	20 A	RECEPT - ELECTRIC SHOP	8
9	RECEPT - YARD SHOP	20 A	1			0	0			1	20 A	RECEPT - ELECTRIC SHOP	10
11	RECEPT - PLUMBING SHOP	20 A	1					0	0	1	20 A	RECEPT - ELECTRIC SHOP	12
13	RECEPT - PLUMBING SHOP	20 A	1	0	0					1	20 A	RECEPT - ELECTRIC SHOP	14
15	RECEPT - PLUMBING SHOP	20 A	1			0	0			1	20 A	RECEPT - WELDING / YARD SHOP	16
17	RECEPT - WELDING / PLUMBING SHOP	20 A	1					0	0	1	20 A	EXHAUST FAN #5	18
19				0	0								20
21	WAREHOUSE UNIT HEATER	20 A	3			0	0			3	30 A	RECEPT - WELDING / PLUMBING SHOP	22
23								0	0				24
25	RECEPT - WELDING / ELECTRICAL SHOP	20 A	1	0	0					2	50 A	RECEPT - WELDING / YARD SHOP	26
27	RECEPT - WELDING / ELECTRICAL SHOP	20 A	2			0	0						28
29								0	0	1	30 A	DOOR OPENER - WAREHOUSE	30
31				0	0								32
33	SOUTH POWER STRIP	20 A	3			0	0			3	50 A	NORTH POWER STRIP - JEFFS OFFICE	34
35								0	0				36
37	RECEPT - TRANSPORTATION OFFICE	20 A	1	0	0					2	60 A	TRANSPORT - UNIT HEATER	38
39	RECEPT - TRANSPORTATION OFFICE	20 A	1			0	0						40
41	LTS TRANSPORTATION OFFICE	20 A	1					0	0	1	20 A	DED RECEPT - TRANSPORT OFFICE	42
43	EXISTING CIRCUIT	20 A	1	0	0					1	20 A	EXISTING CIRCUIT	44
45	*AUTO SINK - LOCKSMITH & ELEC SHOP	20 A	1			360	0			1	20 A	EXISTING CIRCUIT	46
47	*CEILING FAN	20 A	1					10	2004	1	20 A	*F-2 - MECH RM	48
49	*CEILING FAN	20 A	1	10	1848					2	25 A	**CU-2	50
51	*CEILING FAN	20 A	1			10	1848						52
53	SPACE	--	1					--	--	1	--	SPACE	54
			Total Load:	1858 VA		2218 VA		2014 VA					
			Total Amps:	15 A		19 A		17 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	5730 VA	100.00%	5730 VA		
RECEPT	360 VA	100.00%	360 VA	Total Conn. Load:	6090 VA
				Total Est. Demand:	6090 VA
				Total Conn.:	17 A
				Total Est. Demand:	17 A

Notes:
EXISTING SQUARE D - NQOB PANELBOARD.
* = REPLACE EXISTING SPACE WITH CIRCUIT BREAKER.

Branch Panel: L4

Location: Space 3 **Volts:** 120/208 Wye **A.I.C. Rating:** 10000
Supply From: **Phases:** 3 **Mains Type:** MCB
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 100 A
Enclosure: NEMA 1

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPT & EWC	20 A	1	0	0					1	20 A	RECEPT	2
3	RECEPT & EWC	20 A	1			0	0			1	20 A	RECEPT & REF	4
5	RECEPT & EWC	20 A	1					0	0	1	20 A	RECEPT	6
7	LIGHTS/YARD SHOP & LOUNGE	20 A	1	0	0					1	20 A	RECEPT - COMPUTER	8
9	LIGHTS/OFFICES & CORRIDOR	20 A	1			0	0			1	20 A	DEC CIR COMP RECEPT	10
11	LIGHT/RECIEVING	20 A	1					0	0	1	20 A	EXISTING CIRCUIT	12
13	LIGHTS/OFFICE & TOILET	20 A	1	0	0					1	20 A	EXHAUST FAN #F4	14
15	LIGHTS/OFFICE, TOILET & SHOWER	20 A	1			0	0			1	20 A	KITCHENETTE UNIT	16
17	UNIT HEATER	20 A	1					0	0	2	20 A	KITCHENETTE UNIT	18
19	EXISTING CIRCUIT	20 A	1	0	0								20
21	CONDENSER	20 A	2			0	0			2	50 A	CONDENSER	22
23								0	0				24
25				0	1260					1	20 A	*RECEPT - OPEN OFFICE	26
27	EXISTING CIRCUIT	20 A	3			0	360			1	20 A	*COPIER - OPEN OFFICE	28
29								0	900	1	20 A	*RECEPT - CONFERENCE ROOM	30
			Total Load:	1260 VA		360 VA		900 VA					
			Total Amps:	11 A		3 A		8 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	2520 VA	100.00%	2520 VA		
				Total Conn. Load:	2520 VA
				Total Est. Demand:	2520 VA
				Total Conn.:	7 A
				Total Est. Demand:	7 A

Notes:
EXISTING SQUARE D - NQOB PANELBOARD
*= REPLACE EXISTING SPARE WITH NEW 1 POLE 20AMP BREAKER.

SCHMIDT ASSOCIATES
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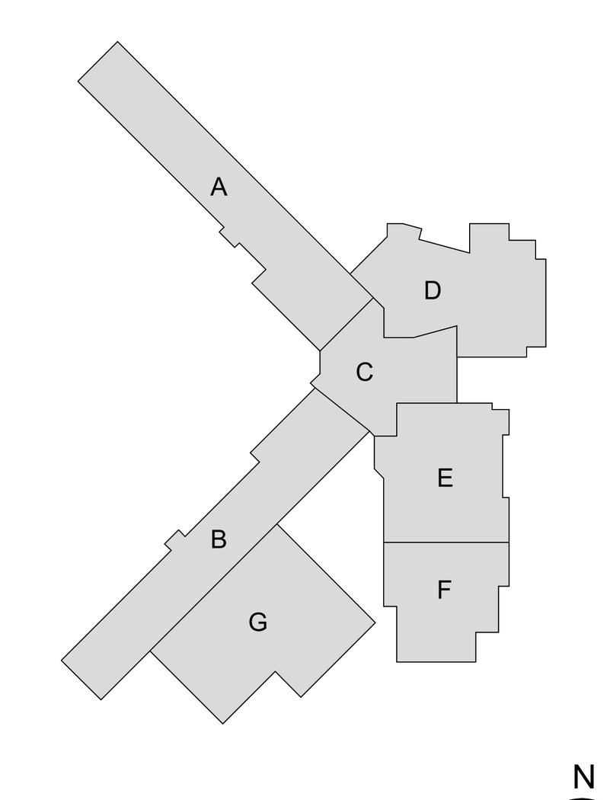
Project No. 2019-067.OSC
Project Date 07.31.2024
Produced KJE & NEM

KBSO #23166
OLUWASEUN ODUKOMAIYA
REGISTERED
No. 11300632
STATE OF INDIANA
PROFESSIONAL ENGINEER
7/31/2024

#	Revision	Date
	ADDENDUM #2	08.29.2024

8401 Westfield Blvd
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

ELECTRICAL SCHEDULES

WE601

1 FIRST FLOOR ELECTRICAL PLAN - WAREHOUSE

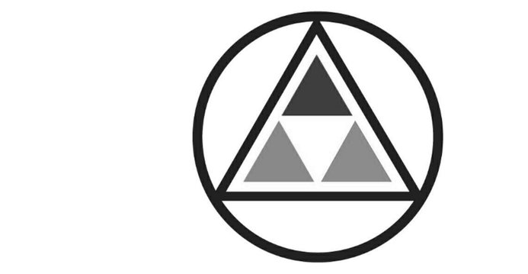
1/8" = 1'-0"

GENERAL NOTES

- A REFER TO SHEET E000 FOR GENERAL ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS.
- B REFER TO E600 SERIES SHEETS FOR LOAD PANEL SCHEDULES.
- C VERIFY HEIGHT OF ALL COUNTERTOP RECEPTACLES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
- D ALL EXISTING FIRE ALARM DEVICES SHOWN TO WORK AS AN EXTENTION OF NEW FIRE ALARM SYSTEM. EXTEND NEAREST NOTIFICATION AND DETECTION CIRCUITS TO ACCOMMODATE NEW DEVICES. DOCUMENT HALLWAY TIE-IN LOCATION SO DEVICES CAN BE TRANSFERRED OVER TO NEW BUILDNG SYSTEM WITH MINIMAL SHUTDOWN.
- E ALL HATCHED REGIONS TO BE CONSIDERED OUT OF SCOPE.
- E RECEPTACLES TAGGED WITH "VO" TO BE INSTALLED INSIDE VIDEO OUTPUT BOX. COORDINATE INSTALLATION WITH A/V INSTALER PRIOR TO ROUGH-IN.
- F CIRCUIT TAG UNDER ROOM NAME INDICATES ALL DEVICES IN ROOM ARE ON INDICATED CIRCUIT UNLESS OTHERWISE NOTED.

SHEET KEYNOTES

1. SURFACE MOUNTED QUADRIPLEX FOR NEW COMPUTERS. COORDINATE LOCATION AND HEIGHT WITH TECHNOLOGY DRAWINGS PRIOR TO ROUGH-IN.
2. EXTEND EXISTING RESTROOM CIRCUITRY TO FEED NEW AUTOMATIC FAUCETS. INSTALL 4" BELOW BASIN. RUN WIRING TYPE BELOW SINK. COORDINATE WITH PLUMBING DESIGN.
3. PROVIDE 120V, 20A, 1P ELECTRICAL CONNECTION FOR NEW AUTOMATIC SINK. COORDINATE WITH PLUMBING DESIGN.
4. PROVIDE 120V, 20A, 1P ELECTRICAL MOTOR FOR FANS. COORDINATE INSTALLATION HEIGHT WITH ARCHITECTURAL. ROUTE 2#12 & 1#12GND IN 3/4" CONDUIT.
5. PROVIDE 120V, 20A, 1P DISCONNECT FOR FURNACE. ROUTE 2#12 & 1#12GND IN 3/4" CONDUIT.
6. PROVIDE 240V, 50A, 1P DISCONNECT FOR CONDENSING UNITS. ROUTE 2#6 & 1#10GND IN 3/4" CONDUIT.
7. PROVIDE 240V, 20A, 1P DISCONNECT FOR FURNACE. ROUTE 2#12 & 1#12GND IN 3/4" CONDUIT.
8. PROVIDE 240V, 25A, 1P DISCONNECT FOR CONDENSING UNITS. ROUTE 2#10 & 1#10GND IN 3/4" CONDUIT.
9. PROVIDE 120V, 20A, 1P ELECTRICAL CONNECTION FOR NEW COILING DOOR. COORDINATE FINAL DOOR LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.



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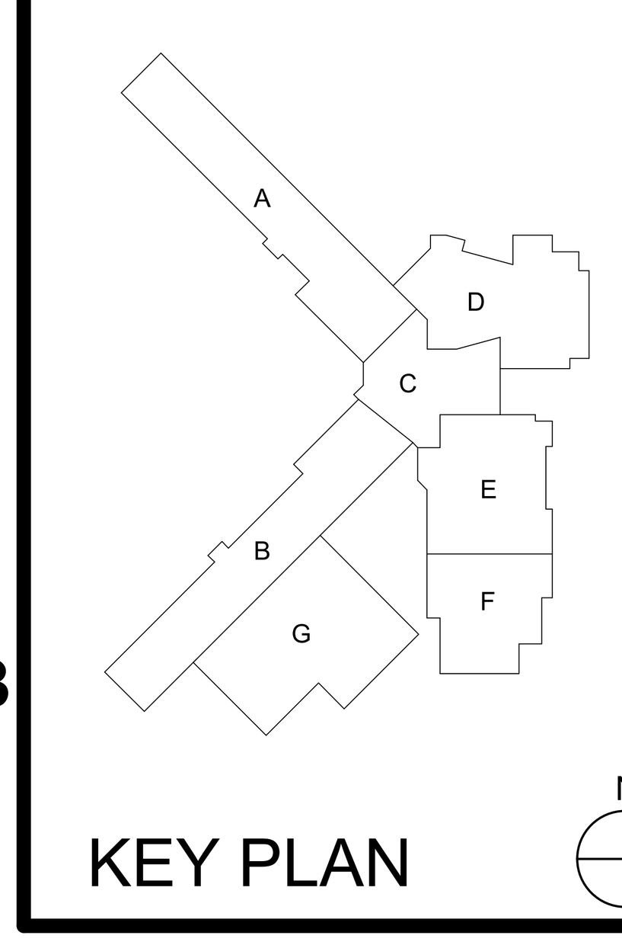


KEY PLAN

M.S.D. of Washington Township

WASHINGTON
TOWNSHIP SCHOOLS

SERVICES CENTER RENOVATION - PHASE 6B

FIRST FLOOR ELECTRICAL PLAN - WAREHOUSE

WEP100

SHEET NOTES

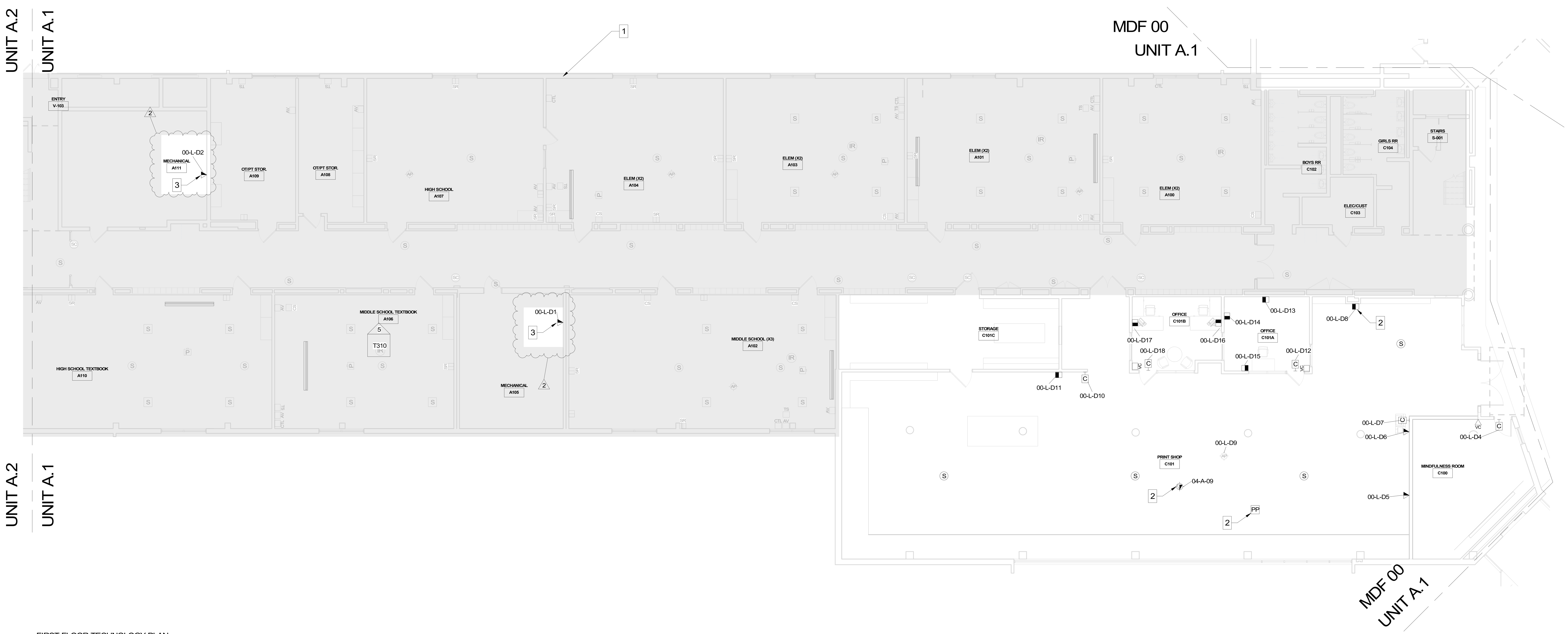
1. SHADED AREA OUTSIDE OF CONSTRUCTION SCOPE, ALL DEVICES WITHIN REGION SHALL BE PROTECTED IN PLACE THROUGH CONSTRUCTION.
2. DATA LOCATION MOUNTED ADJACENT TO POWER LOCATIONS SERVING PRINTING EQUIPMENT.
3. DATA LOCATION SERVING BAS EQUIPMENT. COORDINATE FINAL LOCATION WITH TEMOERTURE CONTROLS CONTRACTOR.

TECHNOLOGY LEGEND

Symbol	Description	Symbol	Description
	DATA LOCATION - SURFACE MOUNTED	C C	DUAL SIDED CLOCK LOCATION - SURFACE MOUNTED
	DATA LOCATION - FLUSH MOUNTED	HA	HEARING ASSISTANCE ANTENNA LOCATION
SR	DATA RACEWAY - SURFACE MOUNTED	IR	IR MICROPHONE LOCATION
SR	DATA RACEWAY - FLUSH MOUNTED	S	PAGING SPEAKER - CEILING MOUNTED
RC	DATA RE-CABLE LOCATION - SURFACE MOUNTED	S	PROGRAM SPEAKER - CEILING MOUNTED
DS	DIGITAL SIGNAGE LOCATION - FLUSH MOUNTED	SPK	PROGRAM SPEAKER - SURFACE MOUNTED
MON	MONITOR LOCATION - FLUSH MOUNTED	TP	TOUCH PANEL LOCATION - FLUSH MOUNTED
MON	MONITOR LOCATION - SURFACE MOUNTED	TP	TOUCH PANEL LOCATION - SURFACE MOUNTED
PP	POWER POLE LOCATION	RS	ROOM SCHEDULER - FLUSH MOUNTED
P	PROJECTOR LOCATION	RS	ROOM SCHEDULER - SURFACE MOUNTED
STP	SHORT THROW PROJECTOR LOCATION	WA	WIRELESS MICROPHONE ANTENNA
TS	TEACHER STATION LOCATION - SURFACE MOUNTED	VC	VOLUME CONTROL - FLUSH MOUNTED
WP	WALL PHONE LOCATION - FLUSH MOUNTED	VC	VOLUME CONTROL - SURFACE MOUNTED
WP	WALL PHONE LOCATION - SURFACE MOUNTED	CR	CARD READER LOCATION
AP	WIRELESS ACCESS POINT - CEILING MOUNTED	CR	CARD READER LOCATION - MULLION MOUNTED
AV	AV INPUT LOCATION - SURFACE MOUNTED	D	DOOR POSITION SWITCH LOCATION
AV	AV INPUT LOCATION - FLUSH MOUNTED	AI	AUDIO INTERCOM DOOR STATION LOCATION
CTL	AV CONTROL LOCATION - FLUSH MOUNTED	VI	VIDEO INTERCOM DOOR STATION LOCATION
CTL	AV CONTROL LOCATION - SURFACE MOUNTED	MS	MOTION SENSOR - SURFACE MOUNTED
AV RACK	AV RACK LOCATION	MS	MOTION SENSOR - CEILING MOUNTED
BA	BLUETOOTH RECEIVER ANTENNA LOCATION - FLUSH MOUNTED	KP	INTRUSION DETECTION KEYPAD LOCATION
BA	BLUETOOTH RECEIVER ANTENNA LOCATION - SURFACE MOUNTED	DB	DURESS BUTTON LOCATION
CS	CALL SWITCH LOCATION - SURFACE MOUNTED	DR	DOOR RELEASE BUTTON
C	CLOCK LOCATION - SURFACE MOUNTED	AS	VIDEO INTERCOM ANSWERING STATION - DESK MOUNTED
		SC	SECURITY CAMERA - CEILING MOUNTED
		SC	SECURITY CAMERA - WALL MOUNTED

GENERAL HORIZONTAL CABLING NOTES

A	MINIMUM CATEGORY 6A COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
B	MANUFACTURER CERTIFIED INCLUDING THE MINIMIMUM PERFORMANCE AND APPLICATIONS WARRANTY.
C	PAINTING OF THE STRUCTURED CABLING WILL VOID THE WARRANTY. ENSURE PROPER COORDINATION WITH PAINTING CONTRACTOR SO THAT ALL STRUCTURED CABLING IS PROTECTED PRIOR TO ANY PAINTING.
D	PROVIDE A MINIMUM 10 FOOT MAINTENANCE LOOP ON EACH HORIZONTAL CABLING RUN. MAINTENANCE LOOPS SHALL BE STORED ABOVE ACCESIBLE CEILINGS, IN CABLE TRAY, AND IN TELECOMMUNICATION ROOM CABLE TRAY. CABLING ABOVE CEILING SHALL BE SUSPENDED FROM APPROPRIATE SUPPORTS AND SHALL NOT TOUCH THE CEILING.
E	ALL PIN/PAIR ASSIGNMENTS SHALL BE T568B.
F	REFER TO SPECIFICATION SECTION 27 15 13 FOR CABLE JACKET COLOR REQUIREMENTS
G	LABELING SHALL BE COMPLETED AS DEFINED IN THE CONTRACT DOCUMENTS AND SHALL BE COORDINATED WITH THE OWNER.
H	PROVIDE ALL TELECOMMUNICATION OUTLETS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE CONNECTIONS FOR EACH DEVICE SHOWN ON THE DRAWINGS.
I	ALL TESTING OF HORIZONTAL CABLING SHALL BE COMPLETED AS DIRECTED BY THE PROJECT SPECIFICATIONS. ALL CABLING MUST BE TESTED AND CERTIFIED TO THE APPLICABLE STANDARDS.



1 FIRST FLOOR TECHNOLOGY PLAN - UNIT A1
1/8" = 1'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.OSC
Project Date 07.31.2024
Produced MJC MKD

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Matthew Connolly
BICSI ID # 212593
EXPIRES 12-31-24
RCDD

#	Revision	Date
1	Addendum #01	08/22/2024
	Addendum #02	08/29/2024

8401 Westfield Blvd
Indianapolis, IN 46240

KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERIVCE CENTER RENOVATION - PHASE 6B

FIRST FLOOR TECHNOLOGY PLAN - UNIT A1

T201A1

SHEET NOTES

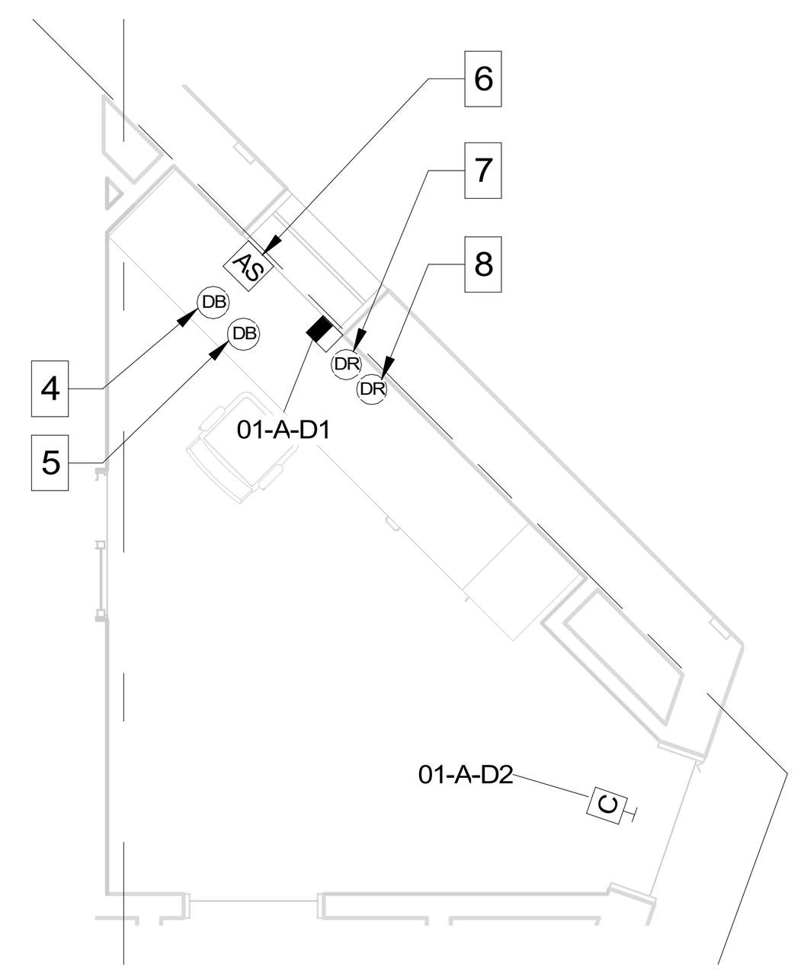
1. SHADED AREA OUTSIDE OF CONSTRUCTION SCOPE. ALL DEVICES WITHIN REGION SHALL BE PROTECTED IN PLACE THROUGH CONSTRUCTION.
2. MONITOR ROUGH-IN LOCATION.
3. TIMECLOCK LOCATION.
4. 911/LOCKDOWN DURESS BUTTON MOUNTED BELOW DESK. BUTTON SHALL BE LOCATED 12" FROM ADJACENT DURESS BUTTON AND MOUNTED SUCH THAT BUTTON PRESS IS AN UPWARD MOTION. REFER TO SECURITY DIAGRAMS AND DETAILS FOR CONNECTIVITY AND CABLING REQUIREMENTS. CONFIRM FINAL BUTTON LOCATION WITH OWNER'S SAFETY AND SECURITY DEPARTMENT PRIOR TO INSTALL. REFER TO SPECIFICATIONS FOR TEMPORARY LABELING REQUIREMENTS.
5. SECURE EXTERIOR DOORS DURESS BUTTON MOUNTED BELOW DESK. BUTTON SHALL BE LOCATED 12" FROM ADJACENT DURESS BUTTON AND MOUNTED SUCH THAT BUTTON PRESS IS AN UPWARD MOTION. REFER TO SECURITY DIAGRAMS AND DETAILS FOR CONNECTIVITY AND CABLING REQUIREMENTS. CONFIRM FINAL BUTTON LOCATION WITH OWNER'S SAFETY AND SECURITY DEPARTMENT PRIOR TO INSTALL. REFER TO SPECIFICATIONS FOR TEMPORARY LABELING REQUIREMENTS.
6. DESK MOUNTED VIDEO INTERCOM MASTER STATION. COORDINATE FINAL LOCATION ON DESK WITH OWNER. CONTRACTOR SHALL PROVIDE CATEGORY 6A PATCH CORD FROM DEVICE TO NEAREST DATA LOCATION. PROGRAM DEDICATED BUTTON TO RELEASE DOOR #459.
7. DOOR RELEASE BUTTON MOUNTED BELOW TRANSACTION COUNTER TO RELEASE DOOR #459. CONFIRM FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION. REFER TO SPECIFICATIONS FOR TEMPORARY LABELING REQUIREMENTS.
8. DOOR RELEASE BUTTON MOUNTED BELOW TRANSACTION COUNTER TO RELEASE ADA DOOR. CONFIRM FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION. REFER TO SPECIFICATIONS FOR TEMPORARY LABELING REQUIREMENTS.
9. DATA LOCATION SERVING BAS EQUIPMENT. COORDINATE FINAL LOCATION WITH TEMOERTURE CONTROLS CONTRACTOR.

TECHNOLOGY LEGEND

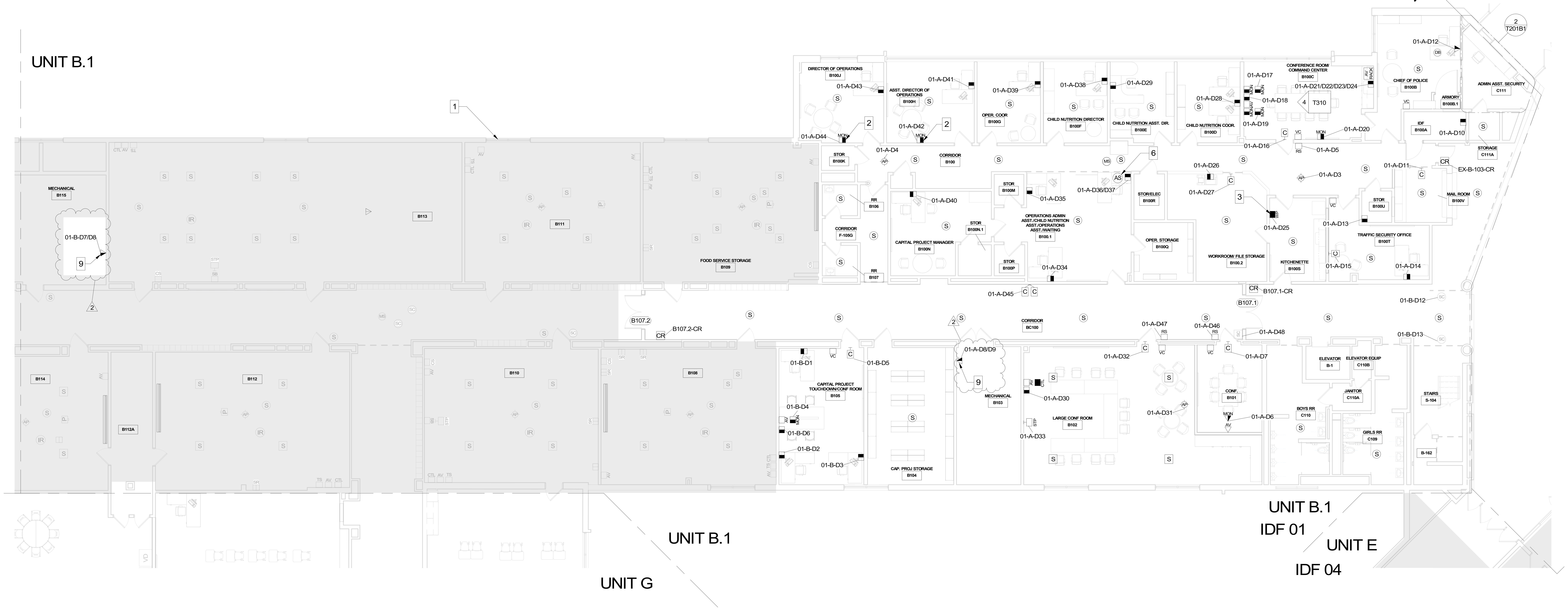
Symbol	Description
	DATA LOCATION - SURFACE MOUNTED
	DATA LOCATION - FLUSH MOUNTED
SR	DATA RACEWAY - SURFACE MOUNTED
SR	DATA RACEWAY - FLUSH MOUNTED
RC	DATA RE-CABLE LOCATION - SURFACE MOUNTED
DS	DIGITAL SIGNAGE LOCATION - FLUSH MOUNTED
MON	MONITOR LOCATION - FLUSH MOUNTED
MON	MONITOR LOCATION - SURFACE MOUNTED
PP	POWER POLE LOCATION
P	PROJECTOR LOCATION
STP	SHORT THROW PROJECTOR LOCATION
TS	TEACHER STATION LOCATION - SURFACE MOUNTED
WP	WALL PHONE LOCATION - FLUSH MOUNTED
WP	WALL PHONE LOCATION - SURFACE MOUNTED
AP	WIRELESS ACCESS POINT - CEILING MOUNTED
AV	AV INPUT LOCATION - SURFACE MOUNTED
AV	AV INPUT LOCATION - FLUSH MOUNTED
CTL	AV CONTROL LOCATION - FLUSH MOUNTED
CTL	AV CONTROL LOCATION - SURFACE MOUNTED
AV RACK	AV RACK LOCATION
BA	BLUETOOTH RECEIVER ANTENNA LOCATION - FLUSH MOUNTED
BA	BLUETOOTH RECEIVER ANTENNA LOCATION - SURFACE MOUNTED
CS	CALL SWITCH LOCATION - SURFACE MOUNTED
C	CLOCK LOCATION - SURFACE MOUNTED
C C	DUAL SIDED CLOCK LOCATION - SURFACE MOUNTED
HA	HEARING ASSISTANCE ANTENNA LOCATION
IR	IR MICROPHONE LOCATION
S	PAGING SPEAKER - CEILING MOUNTED
S	PROGRAM SPEAKER - CEILING MOUNTED
SPK	PROGRAM SPEAKER - SURFACE MOUNTED
TP	TOUCH PANEL LOCATION - FLUSH MOUNTED
TP	TOUCH PANEL LOCATION - SURFACE MOUNTED
RS	ROOM SCHEDULER - FLUSH MOUNTED
RS	ROOM SCHEDULER - SURFACE MOUNTED
WA	WIRELESS MICROPHONE ANTENNA
VC	VOLUME CONTROL - FLUSH MOUNTED
VC	VOLUME CONTROL - SURFACE MOUNTED
CR	CARD READER LOCATION
CR	CARD READER LOCATION - MULLION MOUNTED
D	DOOR POSITION SWITCH LOCATION
AI	AUDIO INTERCOM DOOR STATION LOCATION
VI	VIDEO INTERCOM DOOR STATION LOCATION
MS	MOTION SENSOR - SURFACE MOUNTED
MS	MOTION SENSOR - CEILING MOUNTED
KP	INTRUSION DETECTION KEYPAD LOCATION
DB	DURESS BUTTON LOCATION
DR	DOOR RELEASE BUTTON
AS	VIDEO INTERCOM ANSWERING STATION - DESK MOUNTED
SC	SECURITY CAMERA - CEILING MOUNTED
SC	SECURITY CAMERA - WALL MOUNTED

GENERAL HORIZONTAL CABLING NOTES

A	MINIMUM CATEGORY 6A COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
B	MANUFACTURER CERTIFIED INCLUDING THE MINIMIMUM PERFORMANCE AND APPLICATIONS WARRANTY.
C	PAINTING OF THE STRUCTURED CABLING WILL VOID THE WARRANTY. ENSURE PROPER COORDINATION WITH PAINTING CONTRACTOR SO THAT ALL STRUCTURED CABLING IS PROTECTED PRIOR TO ANY PAINTING.
D	PROVIDE A MINIMUM 10 FOOT MAINTENANCE LOOP ON EACH HORIZONTAL CABLING RUN. MAINTENANCE LOOPS SHALL BE STORED ABOVE ACCESIBLE CEILINGS, IN CABLE TRAY, AND IN TELECOMMUNICATION ROOM CABLE TRAY. CABLING ABOVE CEILING SHALL BE SUSPENDED FROM APPROPRIATE SUPPORTS AND SHALL NOT TOUCH THE CEILING.
E	ALL PIN/PAIR ASSIGNMENTS SHALL BE T568B.
F	REFER TO SPECIFICATION SECTION 27 15 13 FOR CABLE JACKET COLOR REQUIREMENTS
G	LABELING SHALL BE COMPLETED AS DEFINED IN THE CONTRACT DOCUMENTS AND SHALL BE COORDINATED WITH THE OWNER.
H	PROVIDE ALL TELECOMMUNICATION OUTLETS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE CONNECTIONS FOR EACH DEVICE SHOWN ON THE DRAWINGS.
I	ALL TESTING OF HORIZONTAL CABLING SHALL BE COMPLETED AS DIRECTED BY THE PROJECT SPECIFICATIONS. ALL CABLING MUST BE TESTED AND CERTIFIED TO THE APPLICABLE STANDARDS.



2 ADMIN ASST. SECURITY H101U ENLARGED DESK LAYOUT
1/4" = 1'-0"



1 FIRST FLOOR TECHNOLOGY PLAN - UNIT B1
1/8" = 1'-0"

SCHMIDT ASSOCIATES
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Project No. 2019-067.OSC
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REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Matthew Connolly
BICSI ID # 212593
Expires 12-31-24
RCDD

#	Revision	Date
1	Addendum #01	08/22/2024
	Addendum #02	08/29/2024

8401 Westfield Blvd
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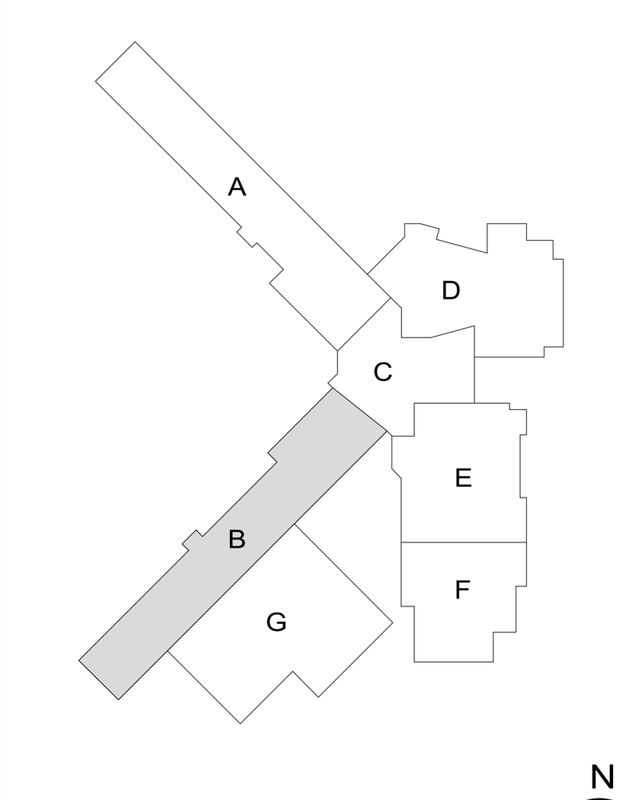

KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERIVCE CENTER RENOVATION - PHASE 6B

FIRST FLOOR TECHNOLOGY PLAN - UNIT B1

T201B1

1 FIRST FLOOR TECHNOLOGY PLAN - UNIT B2
1/8" = 1'-0"

GENERAL HORIZONTAL CABLING NOTES

A	MINIMUM CATEGORY 6A COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
B	MANUFACTURER CERTIFIED INCLUDING THE MINIMIMUM PERFORMANCE AND APPLICATIONS WARRANTY.
C	PAINTING OF THE STRUCTURED CABLING WILL VOID THE WARRANTY. ENSURE PROPER COORDINATION WITH PAINTING CONTRACTOR SO THAT ALL STRUCTURED CABLING IS PROTECTED PRIOR TO ANY PAINTING.
D	PROVIDE A MINIMUM 10 FOOT MAINTENANCE LOOP ON EACH HORIZONTAL CABLING RUN. MAINTENANCE LOOPS SHALL BE STORED ABOVE ACCESIBLE CEILINGS, IN CABLE TRAY, AND IN TELECOMMUNICATION ROOM CABLE TRAY. CABLING ABOVE CEILING SHALL BE SUSPENDED FROM APPROPRIATE SUPPORTS AND SHALL NOT TOUCH THE CEILING.
E	ALL PIN/PAIR ASSIGNMENTS SHALL BE T568B.
F	REFER TO SPECIFICATION SECTION 27 15 13 FOR CABLE JACKET COLOR REQUIREMENTS
G	LABELING SHALL BE COMPLETED AS DEFINED IN THE CONTRACT DOCUMENTS AND SHALL BE COORDINATED WITH THE OWNER.
H	PROVIDE ALL TELECOMMUNICATION OUTLETS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE CONNECTIONS FOR EACH DEVICE SHOWN ON THE DRAWINGS.
I	ALL TESTING OF HORIZONTAL CABLING SHALL BE COMPLETED AS DIRECTED BY THE PROJECT SPECIFICATIONS. ALL CABLING MUST BE TESTED AND CERTIFIED TO THE APPLICABLE STANDARDS.

TECHNOLOGY LEGEND

	DATA LOCATION - SURFACE MOUNTED
	DATA LOCATION - FLUSH MOUNTED
SR	DATA RACEWAY - SURFACE MOUNTED
SR	DATA RACEWAY - FLUSH MOUNTED
RC	DATA RE-CABLE LOCATION - SURFACE MOUNTED
DS	DIGITAL SIGNAGE LOCATION - FLUSH MOUNTED
MON	MONITOR LOCATION - FLUSH MOUNTED
MON	MONITOR LOCATION - SURFACE MOUNTED
PP	POWER POLE LOCATION
P	PROJECTOR LOCATION
STP	SHORT THROW PROJECTOR LOCATION
TS	TEACHER STATION LOCATION - SURFACE MOUNTED
WP	WALL PHONE LOCATION - FLUSH MOUNTED
WP	WALL PHONE LOCATION - SURFACE MOUNTED
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C	CLOCK LOCATION - SURFACE MOUNTED
C C	DUAL SIDED CLOCK LOCATION - SURFACE MOUNTED
HA	HEARING ASSISTANCE ANTENNA LOCATION
IR	IR MICROPHONE LOCATION
S	PAGING SPEAKER - CEILING MOUNTED
S	PROGRAM SPEAKER - CEILING MOUNTED
S P	PROGRAM SPEAKER - PENDANT MOUNTED
SPK	PROGRAM SPEAKER - SURFACE MOUNTED
TP	TOUCH PANEL LOCATION - FLUSH MOUNTED
TP	TOUCH PANEL LOCATION - SURFACE MOUNTED
RS	ROOM SCHEDULER - FLUSH MOUNTED
RS	ROOM SCHEDULER - SURFACE MOUNTED
WA	WIRELESS MICROPHONE ANTENNA
VC	VOLUME CONTROL - FLUSH MOUNTED
VC	VOLUME CONTROL - SURFACE MOUNTED
CR	CARD READER LOCATION
CR	CARD READER LOCATION - MULLION MOUNTED
D	DOOR POSITION SWITCH LOCATION
AI	AUDIO INTERCOM DOOR STATION LOCATION
VI	VIDEO INTERCOM DOOR STATION LOCATION
MS	MOTION SENSOR - SURFACE MOUNTED
MS	MOTION SENSOR - CEILING MOUNTED
KP	INTRUSION DETECTION KEYPAD LOCATION
DB	DURESS BUTTON LOCATION
DR	DOOR RELEASE BUTTON
AS	VIDEO INTERCOM ANSWERING STATION - DESK MOUNTED
SC	SECURITY CAMERA - CEILING MOUNTED
SC	SECURITY CAMERA - WALL MOUNTED

SHEET NOTES

1. SHADED AREA OUTSIDE OF CONSTRUCTION SCOPE. ALL DEVICES WITHIN REGION SHALL BE PROTECTED IN PLACE THROUGH CONSTRUCTION.
2. CARD READER LOCATION SERVING THIS OPENING SHOWN ON UNIT G FLOOR PLAN.
3. DATA LOCATION SERVING BAS EQUIPMENT. COORDINATE FINAL LOCATION WITH TEMOERTURE CONTROLS CONTRACTOR.

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Produced MJC MKD

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Matthew Connolly
BICSI ID # 212593
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RCDD

#	Revision	Date
1	Addendum #01	08/22/2024
	Addendum #02	08/29/2024

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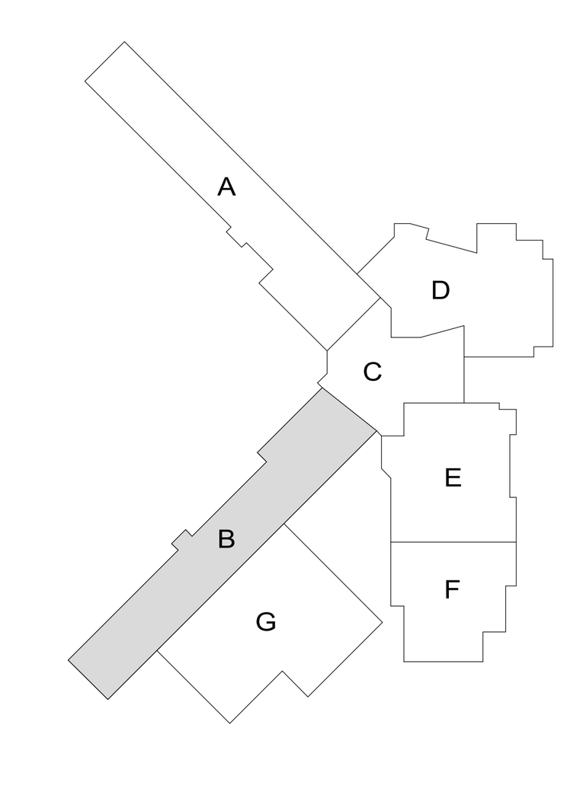


KEY PLAN

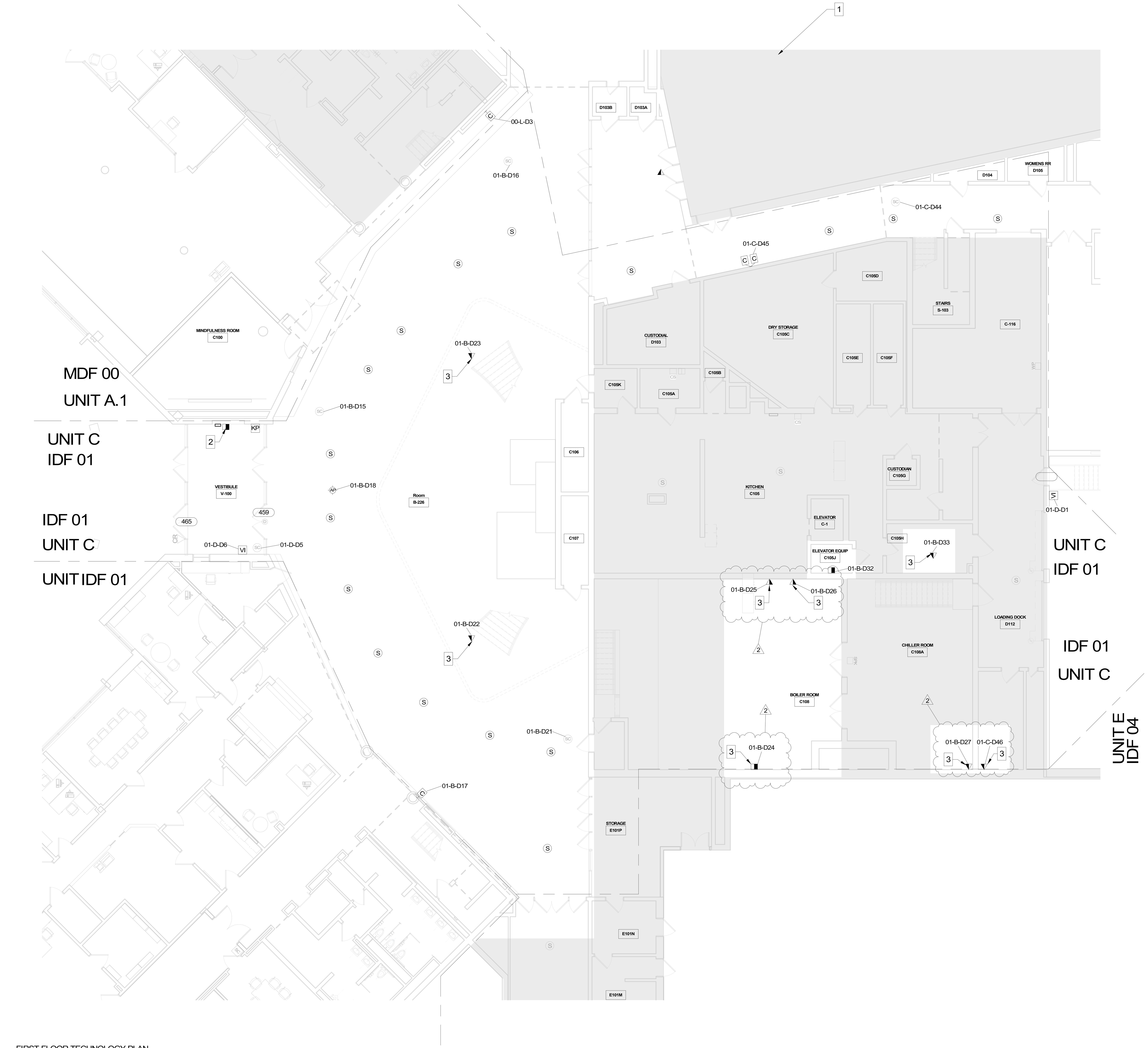
M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERIVCE CENTER RENOVATION - PHASE 6B

FIRST FLOOR TECHNOLOGY PLAN - UNIT B2

T201B2



1 FIRST FLOOR TECHNOLOGY PLAN - UNIT C
1/8" = 1'-0"

GENERAL HORIZONTAL CABLING NOTES

A	MINIMUM CATEGORY 6A COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
B	MANUFACTURER CERTIFIED INCLUDING THE MINIMIMUM PERFORMANCE AND APPLICATIONS WARRANTY.
C	PAINTING OF THE STRUCTURED CABLING WILL VOID THE WARRANTY. ENSURE PROPER COORDINATION WITH PAINTING CONTRACTOR SO THAT ALL STRUCTURED CABLING IS PROTECTED PRIOR TO ANY PAINTING.
D	PROVIDE A MINIMUM 10 FOOT MAINTENANCE LOOP ON EACH HORIZONTAL CABLING RUN. MAINTENANCE LOOPS SHALL BE STORED ABOVE ACCESIBLE CEILINGS, IN CABLE TRAY, AND IN TELECOMMUNICATION ROOM CABLE TRAY. CABLING ABOVE CEILING SHALL BE SUSPENDED FROM APPROPRIATE SUPPORTS AND SHALL NOT TOUCH THE CEILING.
E	ALL PIN/PAIR ASSIGNMENTS SHALL BE T568B.
F	REFER TO SPECIFICATION SECTION 27 15 13 FOR CABLE JACKET COLOR REQUIREMENTS
G	LABELING SHALL BE COMPLETED AS DEFINED IN THE CONTRACT DOCUMENTS AND SHALL BE COORDINATED WITH THE OWNER.
H	PROVIDE ALL TELECOMMUNICATION OUTLETS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE CONNECTIONS FOR EACH DEVICE SHOWN ON THE DRAWINGS.
I	ALL TESTING OF HORIZONTAL CABLING SHALL BE COMPLETED AS DIRECTED BY THE PROJECT SPECIFICATIONS. ALL CABLING MUST BE TESTED AND CERTIFIED TO THE APPLICABLE STANDARDS.

TECHNOLOGY LEGEND

- DATA LOCATION - SURFACE MOUNTED
- DATA LOCATION - FLUSH MOUNTED
- SR DATA RACEWAY - SURFACE MOUNTED
- SR DATA RACEWAY - FLUSH MOUNTED
- RC DATA RE-CABLE LOCATION - SURFACE MOUNTED
- DS DIGITAL SIGNAGE LOCATION - FLUSH MOUNTED
- MON MONITOR LOCATION - FLUSH MOUNTED
- MON MONITOR LOCATION - SURFACE MOUNTED
- PP POWER POLE LOCATION
- P PROJECTOR LOCATION
- STP SHORT THROW PROJECTOR LOCATION
- TS TEACHER STATION LOCATION - SURFACE MOUNTED
- WP WALL PHONE LOCATION - FLUSH MOUNTED
- WP WALL PHONE LOCATION - SURFACE MOUNTED
- AP WIRELESS ACCESS POINT - CEILING MOUNTED
- AV AV INPUT LOCATION - SURFACE MOUNTED
- AV AV INPUT LOCATION - FLUSH MOUNTED
- AV CONTROL LOCATION - FLUSH MOUNTED
- AV CONTROL LOCATION - SURFACE MOUNTED
- AV RACK AV RACK LOCATION
- BA BLUETOOTH RECEIVER ANTENNA LOCATION - FLUSH MOUNTED
- BA BLUETOOTH RECEIVER ANTENNA LOCATION - SURFACE MOUNTED
- CS CALL SWITCH LOCATION - SURFACE MOUNTED
- C CLOCK LOCATION - SURFACE MOUNTED
- C C DUAL SIDED CLOCK LOCATION - SURFACE MOUNTED
- HA HEARING ASSISTANCE ANTENNA LOCATION
- IR IR MICROPHONE LOCATION
- S PAGING SPEAKER - CEILING MOUNTED
- S PROGRAM SPEAKER - CEILING MOUNTED
- S PROGRAM SPEAKER - PENDANT MOUNTED
- SPK PROGRAM SPEAKER - SURFACE MOUNTED
- TP TOUCH PANEL LOCATION - FLUSH MOUNTED
- TP TOUCH PANEL LOCATION - SURFACE MOUNTED
- RS ROOM SCHEDULER - FLUSH MOUNTED
- RS ROOM SCHEDULER - SURFACE MOUNTED
- WA WIRELESS MICROPHONE ANTENNA
- VC VOLUME CONTROL - FLUSH MOUNTED
- VC VOLUME CONTROL - SURFACE MOUNTED
- CR CARD READER LOCATION
- CR CARD READER LOCATION - MULLION MOUNTED
- D DOOR POSITION SWITCH LOCATION
- AI AUDIO INTERCOM DOOR STATION LOCATION
- VI VIDEO INTERCOM DOOR STATION LOCATION
- MS MOTION SENSOR - SURFACE MOUNTED
- MS MOTION SENSOR - CEILING MOUNTED
- KP INTRUSION DETECTION KEYPAD LOCATION
- DB DURESS BUTTON LOCATION
- DR DOOR RELEASE BUTTON
- AS VIDEO INTERCOM ANSWERING STATION - DESK MOUNTED
- SC SECURITY CAMERA - CEILING MOUNTED
- SC SECURITY CAMERA - WALL MOUNTED

SHEET NOTES

1. SHADED AREA OUTSIDE OF CONSTRUCTION SCOPE. ALL DEVICES WITHIN REGION SHALL BE PROTECTED IN PLACE THROUGH CONSTRUCTION.
2. DATA TO SERVE FACP PANEL.
3. DATA LOCATION SERVING BAS EQUIPMENT. COORDINATE FINAL LOCATION WITH TEMOERTURE CONTROLS CONTRACTOR.

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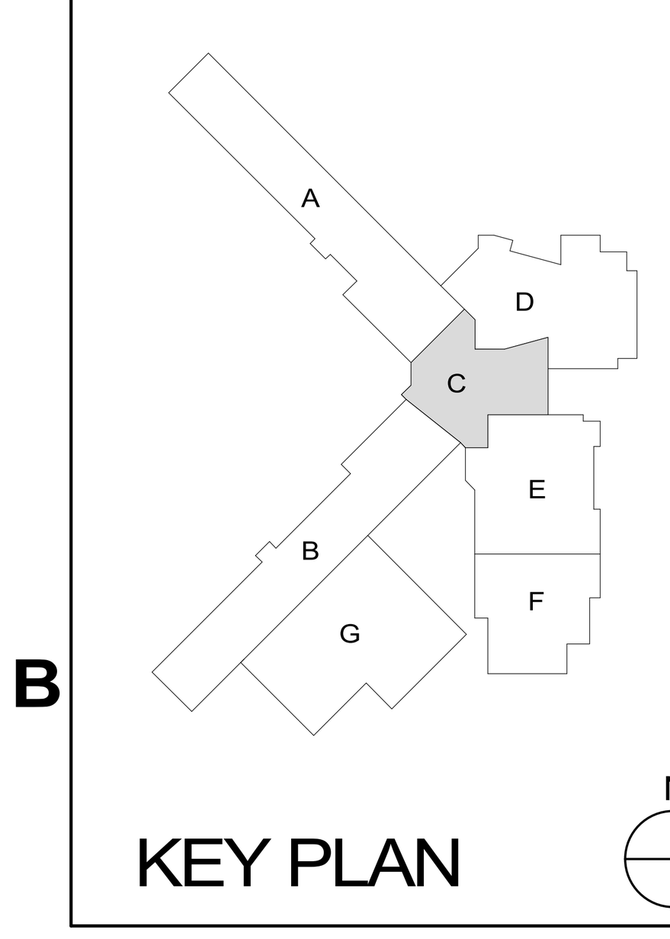

KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERIVCE CENTER RENOVATION - PHASE 6B

FIRST FLOOR TECHNOLOGY PLAN - UNIT C

T201C

1 FIRST FLOOR TECHNOLOGY PLAN - UNIT D
1/8" = 1'-0"

GENERAL HORIZONTAL CABLING NOTES

A	MINIMUM CATEGORY 6A COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
B	MANUFACTURER CERTIFIED INCLUDING THE MINIMIMUM PERFORMANCE AND APPLICATIONS WARRANTY.
C	PAINTING OF THE STRUCTURED CABLING WILL VOID THE WARRANTY. ENSURE PROPER COORDINATION WITH PAINTING CONTRACTOR SO THAT ALL STRUCTURED CABLING IS PROTECTED PRIOR TO ANY PAINTING.
D	PROVIDE A MINIMUM 10 FOOT MAINTENANCE LOOP ON EACH HORIZONTAL CABLING RUN. MAINTENANCE LOOPS SHALL BE STORED ABOVE ACCESIBLE CEILINGS, IN CABLE TRAY, AND IN TELECOMMUNICATION ROOM CABLE TRAY. CABLING ABOVE CEILING SHALL BE SUSPENDED FROM APPROPRIATE SUPPORTS AND SHALL NOT TOUCH THE CEILING.
E	ALL PIN/PAIR ASSIGNMENTS SHALL BE T568B.
F	REFER TO SPECIFICATION SECTION 27 15 13 FOR CABLE JACKET COLOR REQUIREMENTS
G	LABELING SHALL BE COMPLETED AS DEFINED IN THE CONTRACT DOCUMENTS AND SHALL BE COORDINATED WITH THE OWNER.
H	PROVIDE ALL TELECOMMUNICATION OUTLETS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE CONNECTIONS FOR EACH DEVICE SHOWN ON THE DRAWINGS.
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TECHNOLOGY LEGEND

- DATA LOCATION - SURFACE MOUNTED
- DATA LOCATION - FLUSH MOUNTED
- DATA RACEWAY - SURFACE MOUNTED
- DATA RACEWAY - FLUSH MOUNTED
- DATA RE-CABLE LOCATION - SURFACE MOUNTED
- DIGITAL SIGNAGE LOCATION - FLUSH MOUNTED
- MONITOR LOCATION - FLUSH MOUNTED
- MONITOR LOCATION - SURFACE MOUNTED
- POWER POLE LOCATION
- PROJECTOR LOCATION
- SHORT THROW PROJECTOR LOCATION
- TEACHER STATION LOCATION - SURFACE MOUNTED
- WALL PHONE LOCATION - FLUSH MOUNTED
- WALL PHONE LOCATION - SURFACE MOUNTED
- WIRELESS ACCESS POINT - CEILING MOUNTED
- AV INPUT LOCATION - SURFACE MOUNTED
- AV INPUT LOCATION - FLUSH MOUNTED
- AV CONTROL LOCATION - FLUSH MOUNTED
- AV CONTROL LOCATION - SURFACE MOUNTED
- AV RACK LOCATION
- BLUETOOTH RECEIVER ANTENNA LOCATION - FLUSH MOUNTED
- BLUETOOTH RECEIVER ANTENNA LOCATION - SURFACE MOUNTED
- CALL SWITCH LOCATION - SURFACE MOUNTED
- CLOCK LOCATION - SURFACE MOUNTED
- DUAL SIDED CLOCK LOCATION - SURFACE MOUNTED
- HEARING ASSISTANCE ANTENNA LOCATION
- IR MICROPHONE LOCATION
- PAGING SPEAKER - CEILING MOUNTED
- PROGRAM SPEAKER - CEILING MOUNTED
- PROGRAM SPEAKER - PENDANT MOUNTED
- PROGRAM SPEAKER - SURFACE MOUNTED
- TOUCH PANEL LOCATION - FLUSH MOUNTED
- TOUCH PANEL LOCATION - SURFACE MOUNTED
- ROOM SCHEDULER - FLUSH MOUNTED
- ROOM SCHEDULER - SURFACE MOUNTED
- WIRELESS MICROPHONE ANTENNA
- VOLUME CONTROL - FLUSH MOUNTED
- VOLUME CONTROL - SURFACE MOUNTED
- CARD READER LOCATION
- CARD READER LOCATION - MULLION MOUNTED
- DOOR POSITION SWITCH LOCATION
- AUDIO INTERCOM DOOR STATION LOCATION
- VIDEO INTERCOM DOOR STATION LOCATION
- MOTION SENSOR - SURFACE MOUNTED
- MOTION SENSOR - CEILING MOUNTED
- INTRUSION DETECTION KEYPAD LOCATION
- DURESS BUTTON LOCATION
- DOOR RELEASE BUTTON
- VIDEO INTERCOM ANSWERING STATION - DESK MOUNTED
- SECURITY CAMERA - CEILING MOUNTED
- SECURITY CAMERA - WALL MOUNTED

SHEET NOTES

1. SHADED AREA OUTSIDE OF CONSTRUCTION SCOPE. ALL DEVICES WITHIN REGION SHALL BE PROTECTED IN PLACE THROUGH CONSTRUCTION.
2. DATA LOCATION SERVING BAS EQUIPMENT. COORDINATE FINAL LOCATION WITH TEMOERTURE CONTROLS CONTRACTOR.

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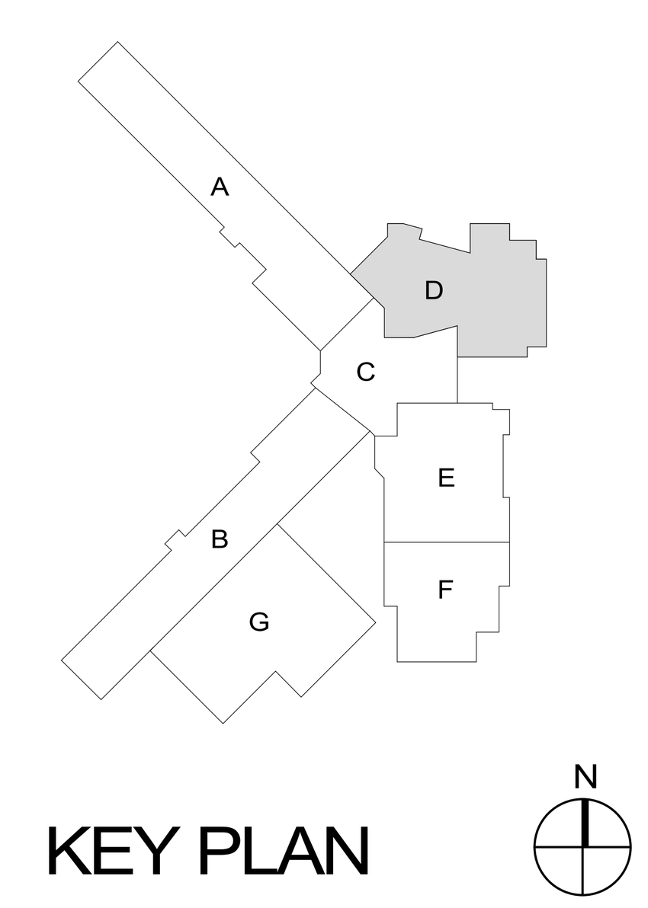


KEY PLAN

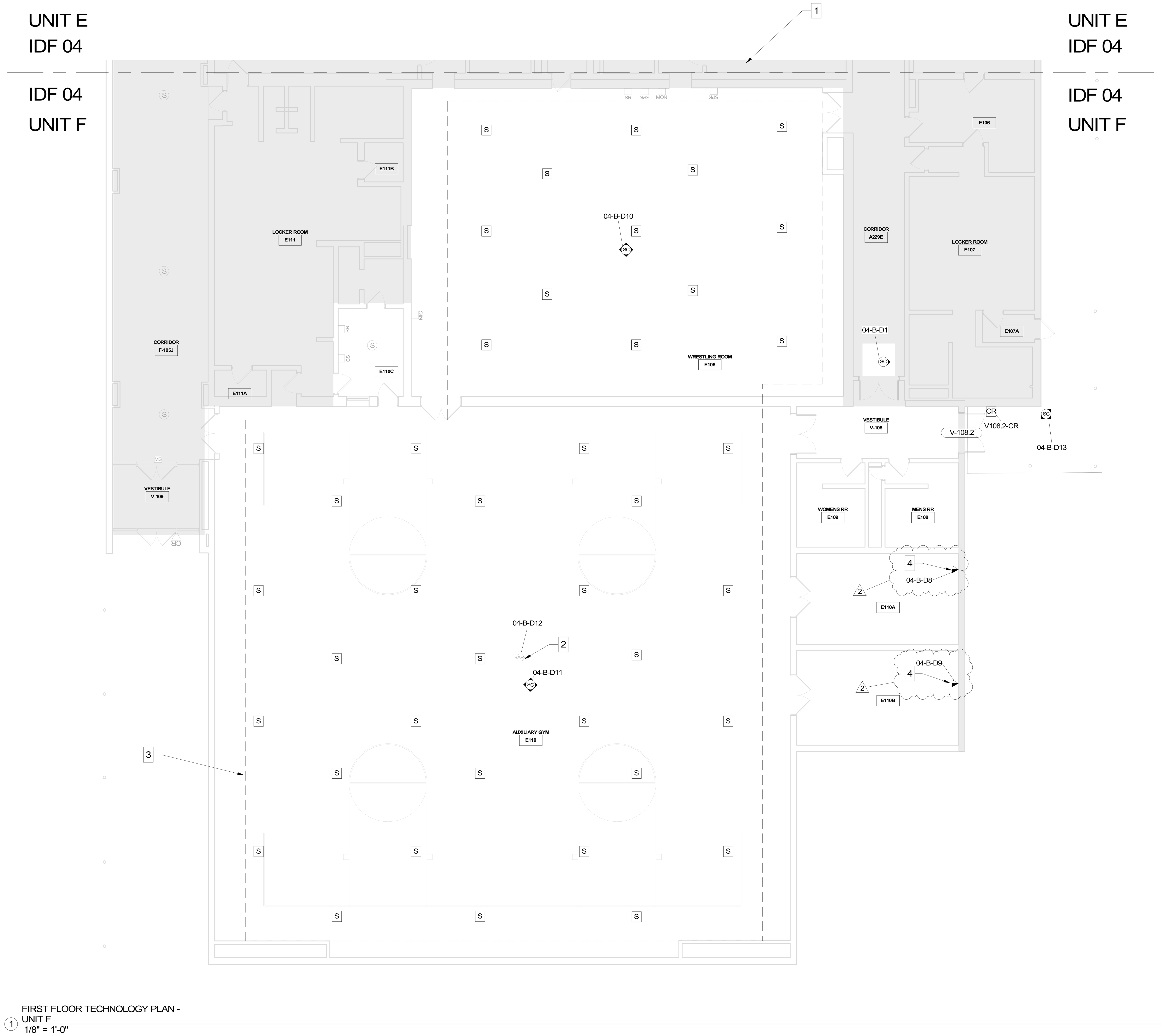
M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERIVCE CENTER RENOVATION - PHASE 6B

FIRST FLOOR TECHNOLOGY PLAN - UNIT D

T201D



FIRST FLOOR TECHNOLOGY PLAN - UNIT F
1/8" = 1'-0"

GENERAL HORIZONTAL CABLING NOTES

A	MINIMUM CATEGORY 6A COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
B	MANUFACTURER CERTIFIED INCLUDING THE MINIMIMUM PERFORMANCE AND APPLICATIONS WARRANTY.
C	PAINTING OF THE STRUCTURED CABLING WILL VOID THE WARRANTY. ENSURE PROPER COORDINATION WITH PAINTING CONTRACTOR SO THAT ALL STRUCTURED CABLING IS PROTECTED PRIOR TO ANY PAINTING.
D	PROVIDE A MINIMUM 10 FOOT MAINTENANCE LOOP ON EACH HORIZONTAL CABLING RUN. MAINTENANCE LOOPS SHALL BE STORED ABOVE ACCESIBLE CEILINGS, IN CABLE TRAY, AND IN TELECOMMUNICATION ROOM CABLE TRAY. CABLING ABOVE CEILING SHALL BE SUSPENDED FROM APPROPRIATE SUPPORTS AND SHALL NOT TOUCH THE CEILING.
E	ALL PIN/PAIR ASSIGNMENTS SHALL BE T568B.
F	REFER TO SPECIFICATION SECTION 27 15 13 FOR CABLE JACKET COLOR REQUIREMENTS
G	LABELING SHALL BE COMPLETED AS DEFINED IN THE CONTRACT DOCUMENTS AND SHALL BE COORDINATED WITH THE OWNER.
H	PROVIDE ALL TELECOMMUNICATION OUTLETS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE CONNECTIONS FOR EACH DEVICE SHOWN ON THE DRAWINGS.
I	ALL TESTING OF HORIZONTAL CABLING SHALL BE COMPLETED AS DIRECTED BY THE PROJECT SPECIFICATIONS. ALL CABLING MUST BE TESTED AND CERTIFIED TO THE APPLICABLE STANDARDS.

TECHNOLOGY LEGEND

- DATA LOCATION - SURFACE MOUNTED
- DATA LOCATION - FLUSH MOUNTED
- DATA RACEWAY - SURFACE MOUNTED
- DATA RACEWAY - FLUSH MOUNTED
- DATA RE-CABLE LOCATION - SURFACE MOUNTED
- DIGITAL SIGNAGE LOCATION - FLUSH MOUNTED
- MONITOR LOCATION - FLUSH MOUNTED
- MONITOR LOCATION - SURFACE MOUNTED
- POWER POLE LOCATION
- PROJECTOR LOCATION
- SHORT THROW PROJECTOR LOCATION
- TEACHER STATION LOCATION - SURFACE MOUNTED
- WALL PHONE LOCATION - FLUSH MOUNTED
- WALL PHONE LOCATION - SURFACE MOUNTED
- WIRELESS ACCESS POINT - CEILING MOUNTED
- AV INPUT LOCATION - SURFACE MOUNTED
- AV INPUT LOCATION - FLUSH MOUNTED
- AV CONTROL LOCATION - FLUSH MOUNTED
- AV CONTROL LOCATION - SURFACE MOUNTED
- AV RACK LOCATION
- BLUETOOTH RECEIVER ANTENNA LOCATION - FLUSH MOUNTED
- BLUETOOTH RECEIVER ANTENNA LOCATION - SURFACE MOUNTED
- CALL SWITCH LOCATION - SURFACE MOUNTED
- CLOCK LOCATION - SURFACE MOUNTED
- DUAL SIDED CLOCK LOCATION - SURFACE MOUNTED
- HEARING ASSISTANCE ANTENNA LOCATION
- IR MICROPHONE LOCATION
- PAGING SPEAKER - CEILING MOUNTED
- PROGRAM SPEAKER - CEILING MOUNTED
- PROGRAM SPEAKER - PENDANT MOUNTED
- PROGRAM SPEAKER - SURFACE MOUNTED
- TOUCH PANEL LOCATION - FLUSH MOUNTED
- TOUCH PANEL LOCATION - SURFACE MOUNTED
- ROOM SCHEDULER - FLUSH MOUNTED
- ROOM SCHEDULER - SURFACE MOUNTED
- WIRELESS MICROPHONE ANTENNA
- VOLUME CONTROL - FLUSH MOUNTED
- VOLUME CONTROL - SURFACE MOUNTED
- CARD READER LOCATION
- CARD READER LOCATION - MULLION MOUNTED
- DOOR POSITION SWITCH LOCATION
- AUDIO INTERCOM DOOR STATION LOCATION
- VIDEO INTERCOM DOOR STATION LOCATION
- MOTION SENSOR - SURFACE MOUNTED
- MOTION SENSOR - CEILING MOUNTED
- INTRUSION DETECTION KEYPAD LOCATION
- DURESS BUTTON LOCATION
- DOOR RELEASE BUTTON
- VIDEO INTERCOM ANSWERING STATION - DESK MOUNTED
- SECURITY CAMERA - CEILING MOUNTED
- SECURITY CAMERA - WALL MOUNTED

SHEET NOTES

1. SHADED AREA OUTSIDE OF CONSTRUCTION SCOPE. ALL DEVICES WITHIN REGION SHALL BE PROTECTED IN PLACE THROUGHOUT CONSTRUCTION.
2. CONTRACTOR SHALL REINSTALL EXISTING WAP AND ASSOICATED CABLING AT SAME LOCATION WITHIN ROOM. PROVIDE JUNCTION BOX AND CABLING SUPPORTS AS REQUIRED.
3. CONTRACTOR SHALL INSTALL EXISTING SPEAKERS WTHIN THE NEW CEILING.
4. APPROXIMATE ROUTING OF MINIMUM 2" UNDERGROUND CONDUIT FROM LIGHT POLE BASE TO EXISTING BASEMENT LEVEL TUNNEL.

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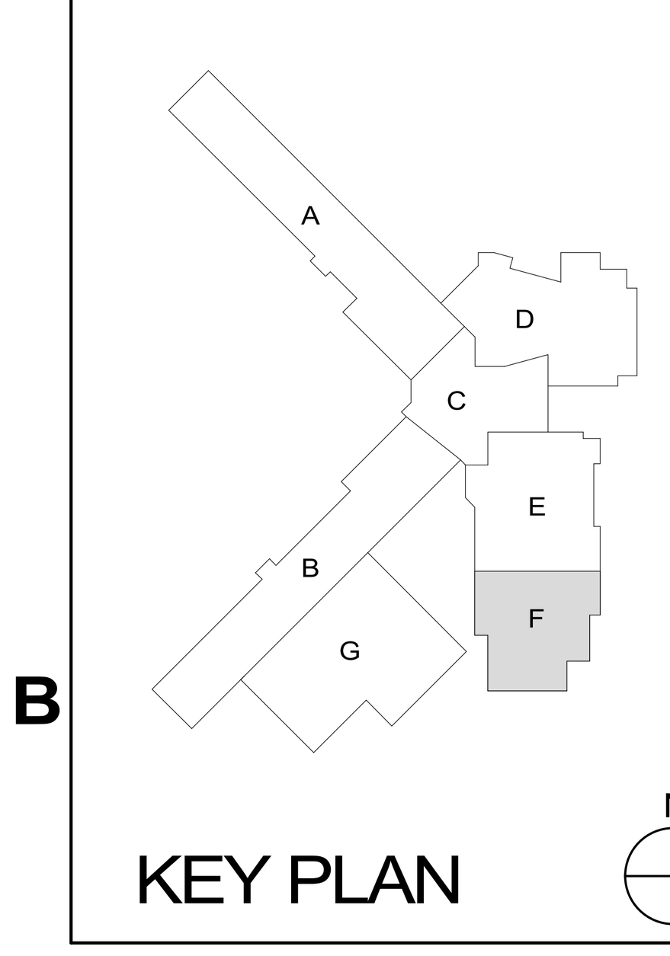


KEY PLAN

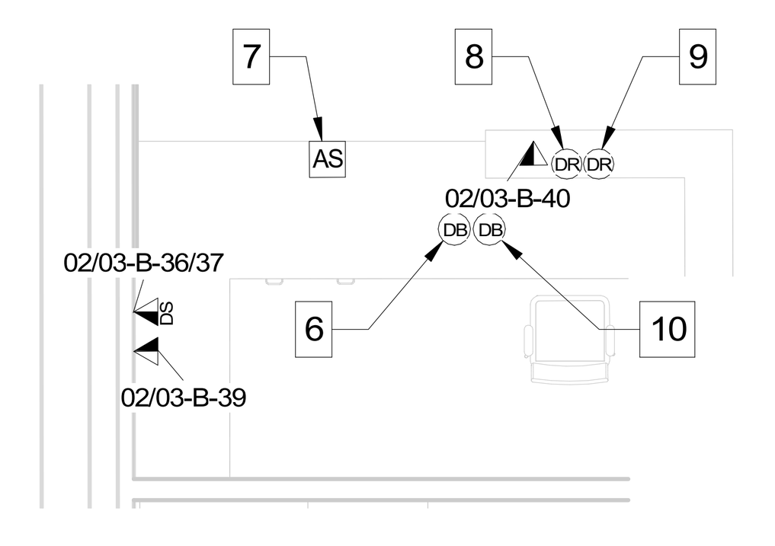
M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERIVCE CENTER RENOVATION - PHASE 6B

FIRST FLOOR TECHNOLOGY PLAN - UNIT F

T201F



RECEPTION H100 ENLARGED DESK LAYOUT
2 1/4" = 1'-0"

SHEET NOTES

1. SHADED AREA OUTSIDE OF CONSTRUCTION SCOPE. ALL DEVICES WITHIN REGION SHALL BE PROTECTED IN PLACE THROUGH CONSTRUCTION.
2. RE-INSTALL EXISTING SECURITY CAMERA REMOVED DURING DEMOLITION PHASE.
3. CEILING MOUNTED PROJECTOR SCREEN LOCATION
4. TIMECLOCK LOCATION.
5. DEVICES WITHIN DASHED REGION ARE EXISTING TO REMAIN AND NOT BE RE-CABLED.
6. 911/LOCKDOWN DURESS BUTTON MOUNTED BELOW DESK. BUTTON SHALL BE LOCATED 12" FROM ADJACENT DURESS BUTTON AND MOUNTED SUCH THAT BUTTON PRESS IS AN UPWARD MOTION. REFER TO SECURITY DIAGRAMS AND DETAILS FOR CONNECTIVITY AND CABLING REQUIREMENTS. CONFIRM FINAL BUTTON LOCATION WITH OWNER'S SAFETY AND SECURITY DEPARTMENT PRIOR TO INSTALL. REFER TO SPECIFICATIONS FOR TEMPORARY LABELING REQUIREMENTS.
7. DESK MOUNTED VIDEO INTERCOM MASTER STATION. COORDINATE FINAL LOCATION ON DESK WITH OWNER. CONTRACTOR SHALL PROVIDE CATEGORY 6A PATCH CORD FROM DEVICE TO NEAREST DATA LOCATION. PROGRAM DEDICATED BUTTON TO RELEASE DOOR #1256

SHEET NOTES

8. DOOR RELEASE BUTTON MOUNTED BELOW TRANSACTION COUNTER TO RELEASE DOOR #1347. CONFIRM FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION. REFER TO SPECIFICATIONS FOR TEMPORARY LABELING REQUIREMENTS.
9. DOOR RELEASE BUTTON MOUNTED BELOW TRANSACTION COUNTER TO RELEASE DOOR #1256. CONFIRM FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION. REFER TO SPECIFICATIONS FOR TEMPORARY LABELING REQUIREMENTS.
10. SECURE EXTERIOR DOORS DURESS BUTTON MOUNTED BELOW DESK. BUTTON SHALL BE LOCATED 12" FROM ADJACENT DURESS BUTTON AND MOUNTED SUCH THAT BUTTON PRESS IS AN UPWARD MOTION. REFER TO SECURITY DIAGRAMS AND DETAILS FOR CONNECTIVITY AND CABLING REQUIREMENTS. CONFIRM FINAL BUTTON LOCATION WITH OWNER'S SAFETY AND SECURITY DEPARTMENT PRIOR TO INSTALL. REFER TO SPECIFICATIONS FOR TEMPORARY LABELING REQUIREMENTS.
11. DATA LOCATION SERVING BAS EQUIPMENT. COORDINATE FINAL LOCATION WITH TEMOERTURE CONTROLS CONTRACTOR.

GENERAL HORIZONTAL CABLING NOTES

A	MINIMUM CATEGORY 6A COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
B	MANUFACTURER CERTIFIED INCLUDING THE MINIMIMUM PERFORMANCE AND APPLICATIONS WARRANTY.
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- MON MONITOR LOCATION - SURFACE MOUNTED
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- P PROJECTOR LOCATION
- STP SHORT THROW PROJECTOR LOCATION
- TS TEACHER STATION LOCATION - SURFACE MOUNTED
- WP WALL PHONE LOCATION - FLUSH MOUNTED
- WP WALL PHONE LOCATION - SURFACE MOUNTED
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- AV AV INPUT LOCATION - SURFACE MOUNTED
- AV AV INPUT LOCATION - FLUSH MOUNTED
- CTL AV CONTROL LOCATION - FLUSH MOUNTED
- CTL AV CONTROL LOCATION - SURFACE MOUNTED
- AV RACK AV RACK LOCATION
- BA BLUETOOTH RECEIVER ANTENNA LOCATION - FLUSH MOUNTED
- BA BLUETOOTH RECEIVER ANTENNA LOCATION - SURFACE MOUNTED
- CS CALL SWITCH LOCATION - SURFACE MOUNTED
- C CLOCK LOCATION - SURFACE MOUNTED
- C C DUAL SIDED CLOCK LOCATION - SURFACE MOUNTED
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- IR IR MICROPHONE LOCATION
- S PAGING SPEAKER - CEILING MOUNTED
- S PROGRAM SPEAKER - CEILING MOUNTED
- S P PROGRAM SPEAKER - PENDANT MOUNTED
- SPK PROGRAM SPEAKER - SURFACE MOUNTED
- TP TOUCH PANEL LOCATION - FLUSH MOUNTED
- TP TOUCH PANEL LOCATION - SURFACE MOUNTED
- RS ROOM SCHEDULER - FLUSH MOUNTED
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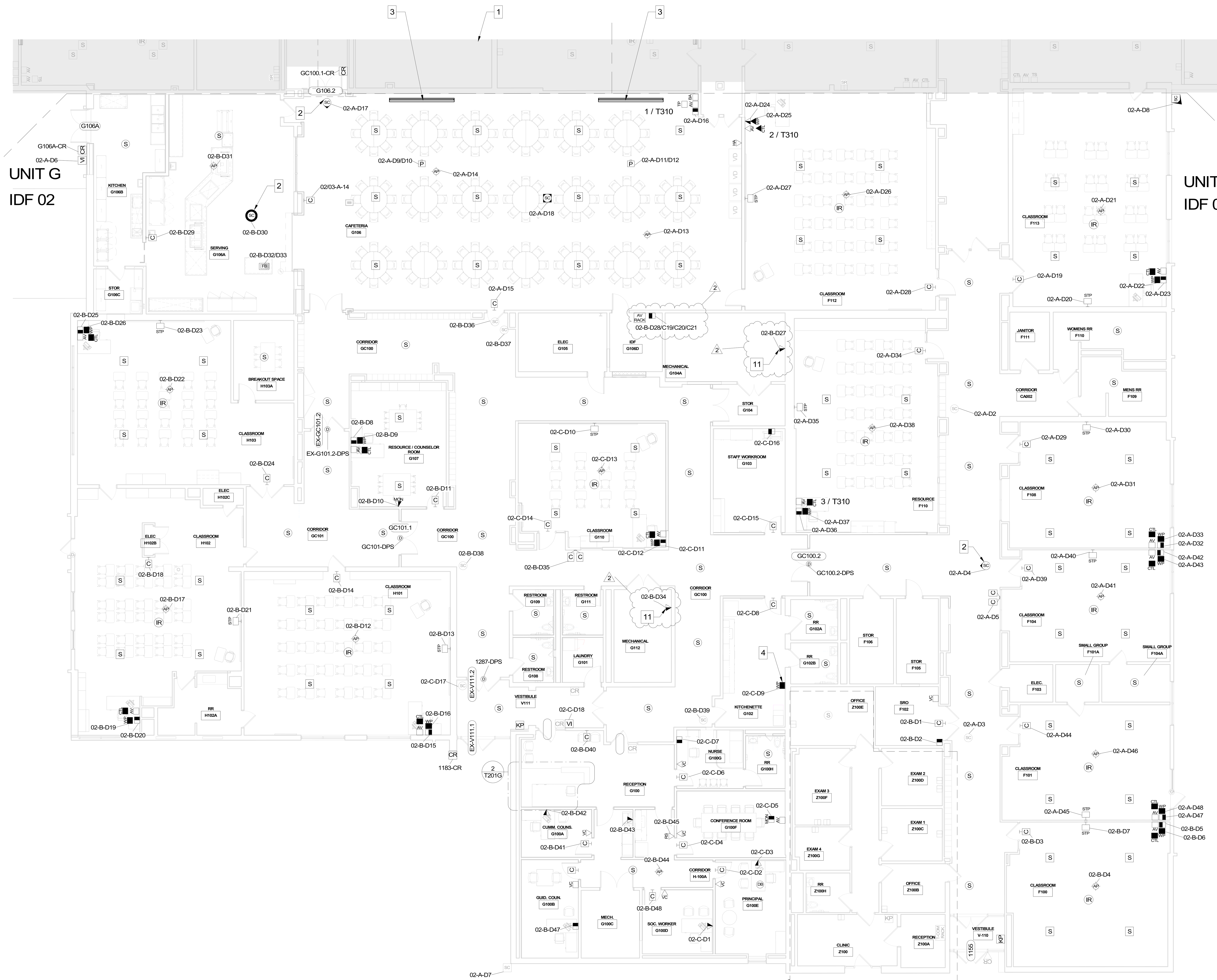
- DR DOOR RELEASE BUTTON
- AS VIDEO INTERCOM ANSWERING STATION - DESK MOUNTED
- SC SECURITY CAMERA - CEILING MOUNTED
- SC SECURITY CAMERA - WALL MOUNTED



FIRST FLOOR TECHNOLOGY PLAN - UNIT G
1 1/8" = 1'-0"

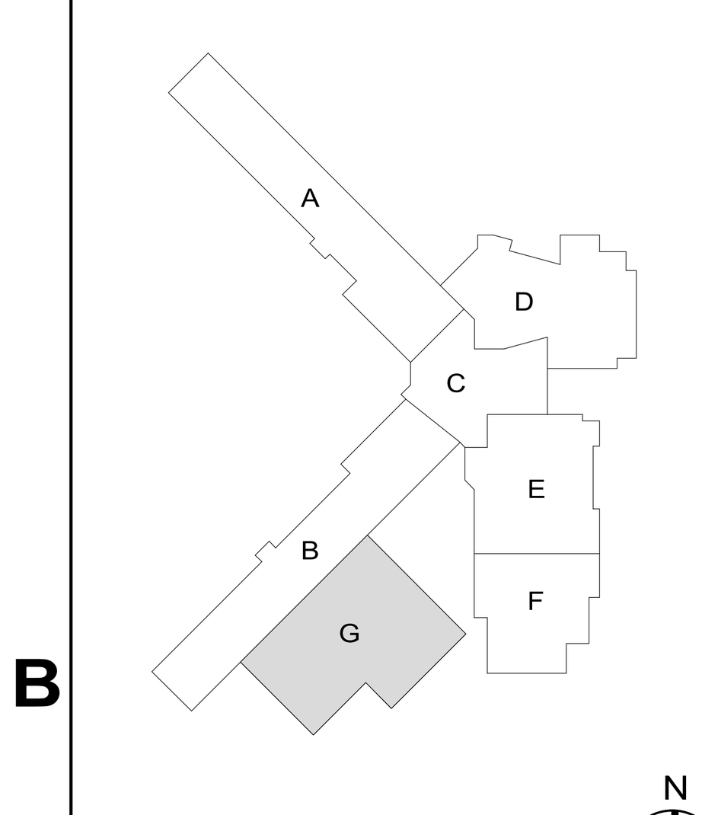
SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.OSC
Project Date 07.31.2024
Produced MJC MKD

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER — BICSI — Matthew Connolly — BICSI ID # 212593 — Expires 12-31-24 — RCDD

#	Revision	Date
1	Addendum #01	08/22/2024
	Addendum #02	08/29/2024

8401 Westfield Blvd
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERIVCE CENTER RENOVATION - PHASE 6B

FIRST FLOOR TECHNOLOGY PLAN - UNIT G

T201G

6	5	4	3	2	1

SHEET NOTES

1. SHADED AREA OUTSIDE OF CONSTRUCTION SCOPE. ALL DEVICES WITHIN REGION SHALL BE PROTECTED IN PLACE THROUGH CONSTRUCTION.
2. DATA LOCATION SERVING BAS EQUIPMENT. COORDINATE FINAL LOCATION WITH TEMOERTURE CONTROLS CONTRACTOR.

TECHNOLOGY LEGEND

- DATA LOCATION - SURFACE MOUNTED
- DATA LOCATION - FLUSH MOUNTED
- DATA RACEWAY - SURFACE MOUNTED
- DATA RACEWAY - FLUSH MOUNTED
- DATA RE-CABLE LOCATION - SURFACE MOUNTED
- DIGITAL SIGNAGE LOCATION - FLUSH MOUNTED
- MONITOR LOCATION - FLUSH MOUNTED
- MONITOR LOCATION - SURFACE MOUNTED
- PP POWER POLE LOCATION
- P PROJECTOR LOCATION
- STP SHORT THROW PROJECTOR LOCATION
- TS TEACHER STATION LOCATION - SURFACE MOUNTED
- WALL PHONE LOCATION - FLUSH MOUNTED
- WALL PHONE LOCATION - SURFACE MOUNTED
- AP WIRELESS ACCESS POINT - CEILING MOUNTED
- AV AV INPUT LOCATION - SURFACE MOUNTED
- AV AV INPUT LOCATION - FLUSH MOUNTED
- CTL AV CONTROL LOCATION - FLUSH MOUNTED
- CTL AV CONTROL LOCATION - SURFACE MOUNTED
- AV RACK AV RACK LOCATION
- BA BLUETOOTH RECEIVER ANTENNA LOCATION - FLUSH MOUNTED
- BA BLUETOOTH RECEIVER ANTENNA LOCATION - SURFACE MOUNTED
- CS CALL SWITCH LOCATION - SURFACE MOUNTED
- C CLOCK LOCATION - SURFACE MOUNTED
- C C DUAL SIDED CLOCK LOCATION - SURFACE MOUNTED
- HA HEARING ASSISTANCE ANTENNA LOCATION
- IR IR MICROPHONE LOCATION
- S PAGING SPEAKER - CEILING MOUNTED
- S PROGRAM SPEAKER - CEILING MOUNTED
- SPK PROGRAM SPEAKER - SURFACE MOUNTED
- TP TOUCH PANEL LOCATION - FLUSH MOUNTED
- TP TOUCH PANEL LOCATION - SURFACE MOUNTED
- RS ROOM SCHEDULER - FLUSH MOUNTED
- RS ROOM SCHEDULER - SURFACE MOUNTED
- WA WIRELESS MICROPHONE ANTENNA
- VC VOLUME CONTROL - FLUSH MOUNTED
- VC VOLUME CONTROL - SURFACE MOUNTED
- CR CARD READER LOCATION
- CR CARD READER LOCATION - MULLION MOUNTED
- D DOOR POSITION SWITCH LOCATION
- AI AUDIO INTERCOM DOOR STATION LOCATION
- VI VIDEO INTERCOM DOOR STATION LOCATION
- MS MOTION SENSOR - SURFACE MOUNTED
- MS MOTION SENSOR - CEILING MOUNTED
- KP INTRUSION DETECTION KEYPAD LOCATION
- DB DURESS BUTTON LOCATION
- DR DOOR RELEASE BUTTON
- AS VIDEO INTERCOM ANSWERING STATION - DESK MOUNTED
- SC SECURITY CAMERA - CEILING MOUNTED
- SC SECURITY CAMERA - WALL MOUNTED

GENERAL HORIZONTAL CABLING NOTES

A	MINIMUM CATEGORY 6A COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
B	MANUFACTURER CERTIFIED INCLUDING THE MINIMIMUM PERFORMANCE AND APPLICATIONS WARRANTY.
C	PAINTING OF THE STRUCTURED CABLING WILL VOID THE WARRANTY. ENSURE PROPER COORDINATION WITH PAINTING CONTRACTOR SO THAT ALL STRUCTURED CABLING IS PROTECTED PRIOR TO ANY PAINTING.
D	PROVIDE A MINIMUM 10 FOOT MAINTENANCE LOOP ON EACH HORIZONTAL CABLING RUN. MAINTENANCE LOOPS SHALL BE STORED ABOVE ACCESIBLE CEILINGS, IN CABLE TRAY, AND IN TELECOMMUNICATION ROOM CABLE TRAY. CABLING ABOVE CEILING SHALL BE SUSPENDED FROM APPROPRIATE SUPPORTS AND SHALL NOT TOUCH THE CEILING.
E	ALL PIN/PAIR ASSIGNMENTS SHALL BE T568B.
F	REFER TO SPECIFICATION SECTION 27 15 13 FOR CABLE JACKET COLOR REQUIREMENTS
G	LABELING SHALL BE COMPLETED AS DEFINED IN THE CONTRACT DOCUMENTS AND SHALL BE COORDINATED WITH THE OWNER.
H	PROVIDE ALL TELECOMMUNICATION OUTLETS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE CONNECTIONS FOR EACH DEVICE SHOWN ON THE DRAWINGS.
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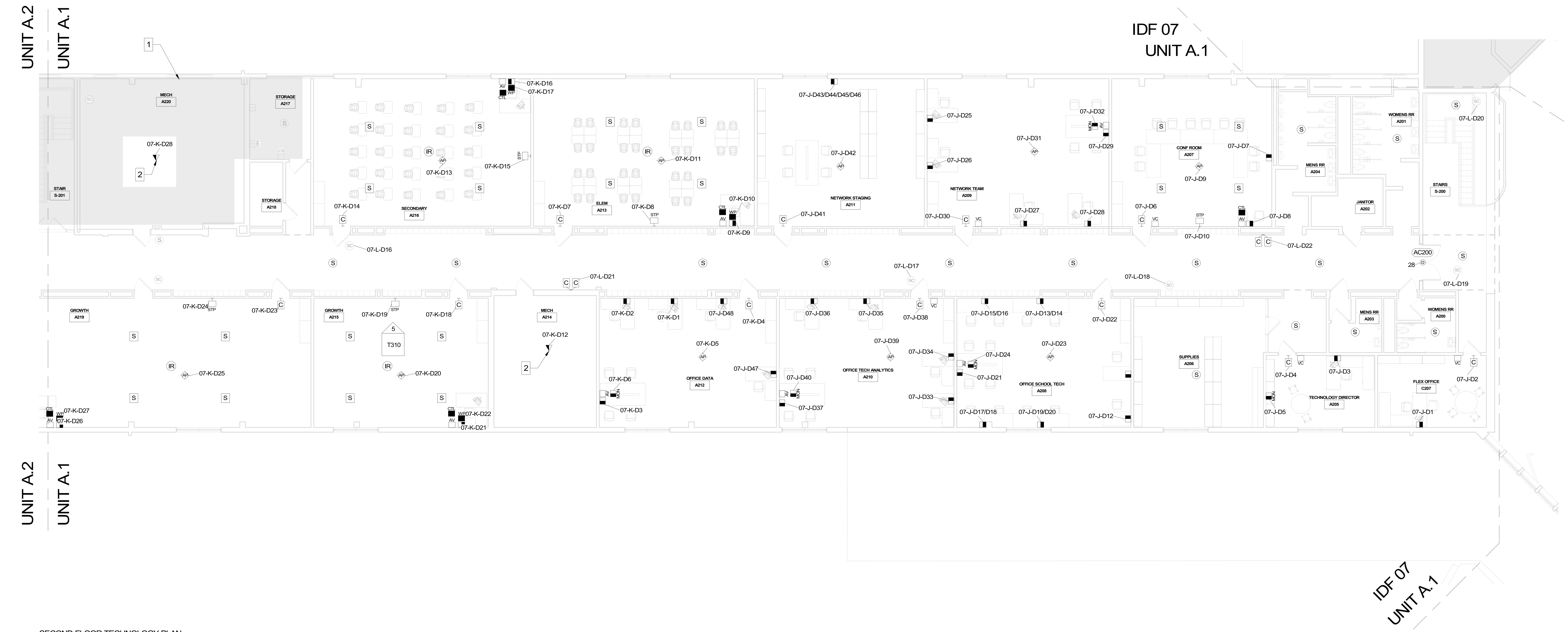

1 SECOND FLOOR TECHNOLOGY PLAN - UNIT A1
1/8" = 1'-0"

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www.schmidt-arch.com

Project No. 2019-067.OSC
Project Date 07.31.2024
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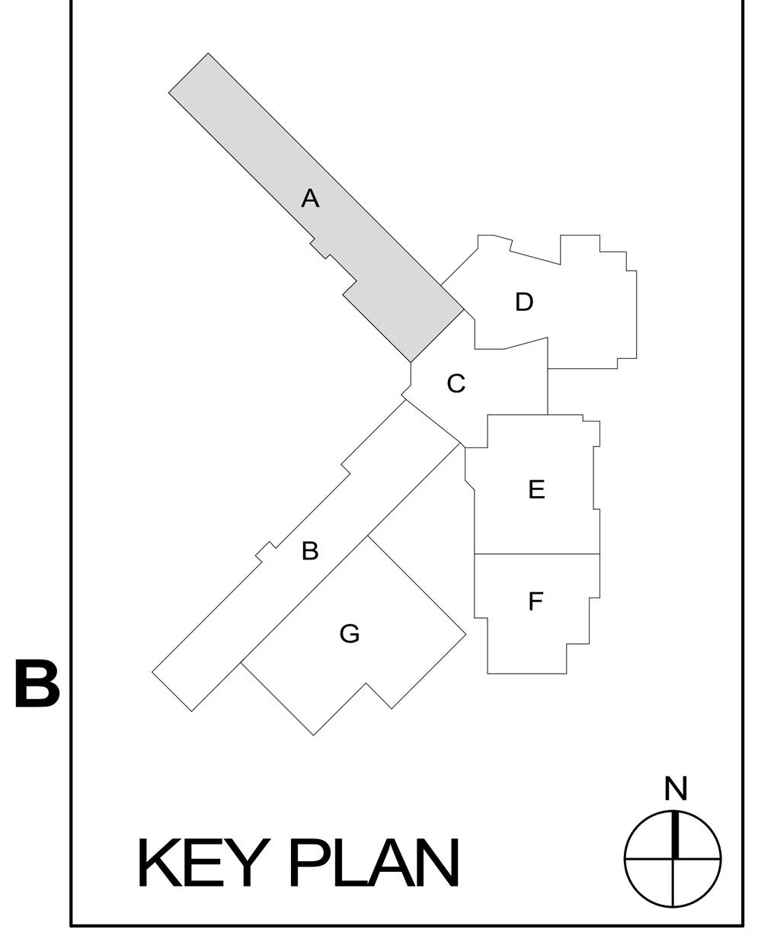

KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERIVCE CENTER RENOVATION - PHASE 6B

SECOND FLOOR TECHNOLOGY PLAN - UNIT A1

T202A1

SHEET NOTES

1. SHADED AREA OUTSIDE OF CONSTRUCTION SCOPE. ALL DEVICES WITHIN REGION SHALL BE PROTECTED IN PLACE THROUGH CONSTRUCTION.
2. DATA LOCATION SERVING BAS EQUIPMENT. COORDINATE FINAL LOCATION WITH TEMOERTURE CONTROLS CONTRACTOR.

TECHNOLOGY LEGEND

- DATA LOCATION - SURFACE MOUNTED
- DATA LOCATION - FLUSH MOUNTED
- DATA RACEWAY - SURFACE MOUNTED
- DATA RACEWAY - FLUSH MOUNTED
- DATA RE-CABLE LOCATION - SURFACE MOUNTED
- DIGITAL SIGNAGE LOCATION - FLUSH MOUNTED
- MONITOR LOCATION - FLUSH MOUNTED
- MONITOR LOCATION - SURFACE MOUNTED
- PP POWER POLE LOCATION
- P PROJECTOR LOCATION
- STP SHORT THROW PROJECTOR LOCATION
- TS TEACHER STATION LOCATION - SURFACE MOUNTED
- WALL PHONE LOCATION - FLUSH MOUNTED
- WALL PHONE LOCATION - SURFACE MOUNTED
- AP WIRELESS ACCESS POINT - CEILING MOUNTED
- AV INPUT LOCATION - SURFACE MOUNTED
- AV INPUT LOCATION - FLUSH MOUNTED
- AV CONTROL LOCATION - FLUSH MOUNTED
- AV CONTROL LOCATION - SURFACE MOUNTED
- AV RACK AV RACK LOCATION
- BA BLUETOOTH RECEIVER ANTENNA LOCATION - FLUSH MOUNTED
- BA BLUETOOTH RECEIVER ANTENNA LOCATION - SURFACE MOUNTED
- CS CALL SWITCH LOCATION - SURFACE MOUNTED
- C CLOCK LOCATION - SURFACE MOUNTED
- C C DUAL SIDED CLOCK LOCATION - SURFACE MOUNTED
- HA HEARING ASSISTANCE ANTENNA LOCATION
- IR IR MICROPHONE LOCATION
- S PAGING SPEAKER - CEILING MOUNTED
- S PROGRAM SPEAKER - CEILING MOUNTED
- SPK PROGRAM SPEAKER - SURFACE MOUNTED
- TP TOUCH PANEL LOCATION - FLUSH MOUNTED
- TP TOUCH PANEL LOCATION - SURFACE MOUNTED
- RS ROOM SCHEDULER - FLUSH MOUNTED
- RS ROOM SCHEDULER - SURFACE MOUNTED
- WA WIRELESS MICROPHONE ANTENNA
- VC VOLUME CONTROL - FLUSH MOUNTED
- VC VOLUME CONTROL - SURFACE MOUNTED
- CR CARD READER LOCATION
- CR CARD READER LOCATION - MULLION MOUNTED
- D DOOR POSITION SWITCH LOCATION
- AI AUDIO INTERCOM DOOR STATION LOCATION
- VI VIDEO INTERCOM DOOR STATION LOCATION
- MS MOTION SENSOR - SURFACE MOUNTED
- MS MOTION SENSOR - CEILING MOUNTED
- KP INTRUSION DETECTION KEYPAD LOCATION
- DB DURESS BUTTON LOCATION
- DR DOOR RELEASE BUTTON
- AS VIDEO INTERCOM ANSWERING STATION - DESK MOUNTED
- SC SECURITY CAMERA - CEILING MOUNTED
- SC SECURITY CAMERA - WALL MOUNTED

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A	MINIMUM CATEGORY 6A COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
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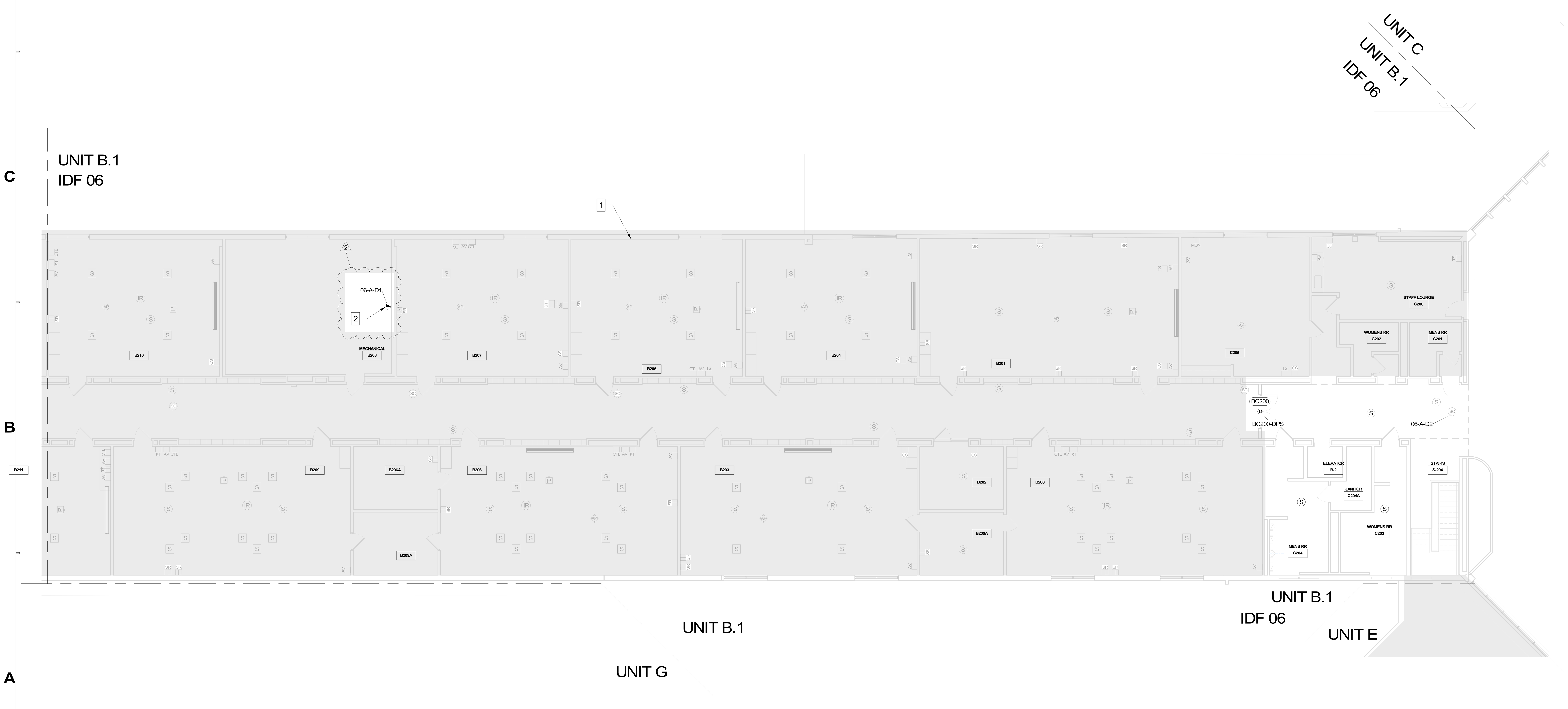

1 SECOND FLOOR TECHNOLOGY PLAN - UNIT B1
1/8" = 1'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.OSC
Project Date 07.31.2024
Produced MJC MKD

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Matthew Connolly
BICSI ID # 212593
Expires 12-31-24
RCDD

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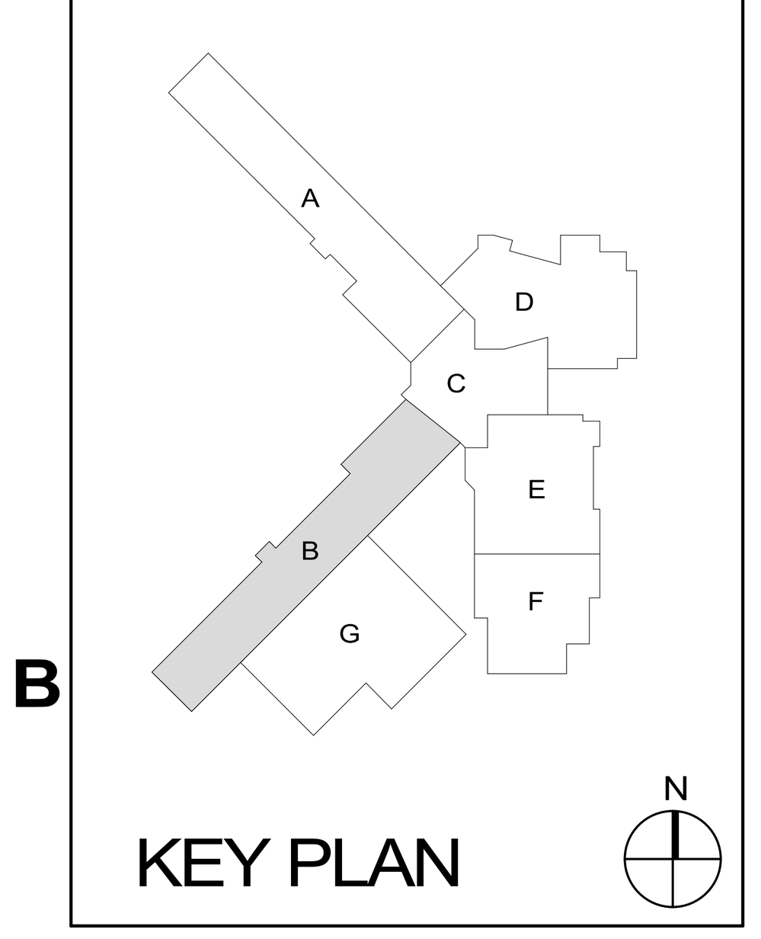
	Addendum #02	08/29/2024

8401 Westfield Blvd
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

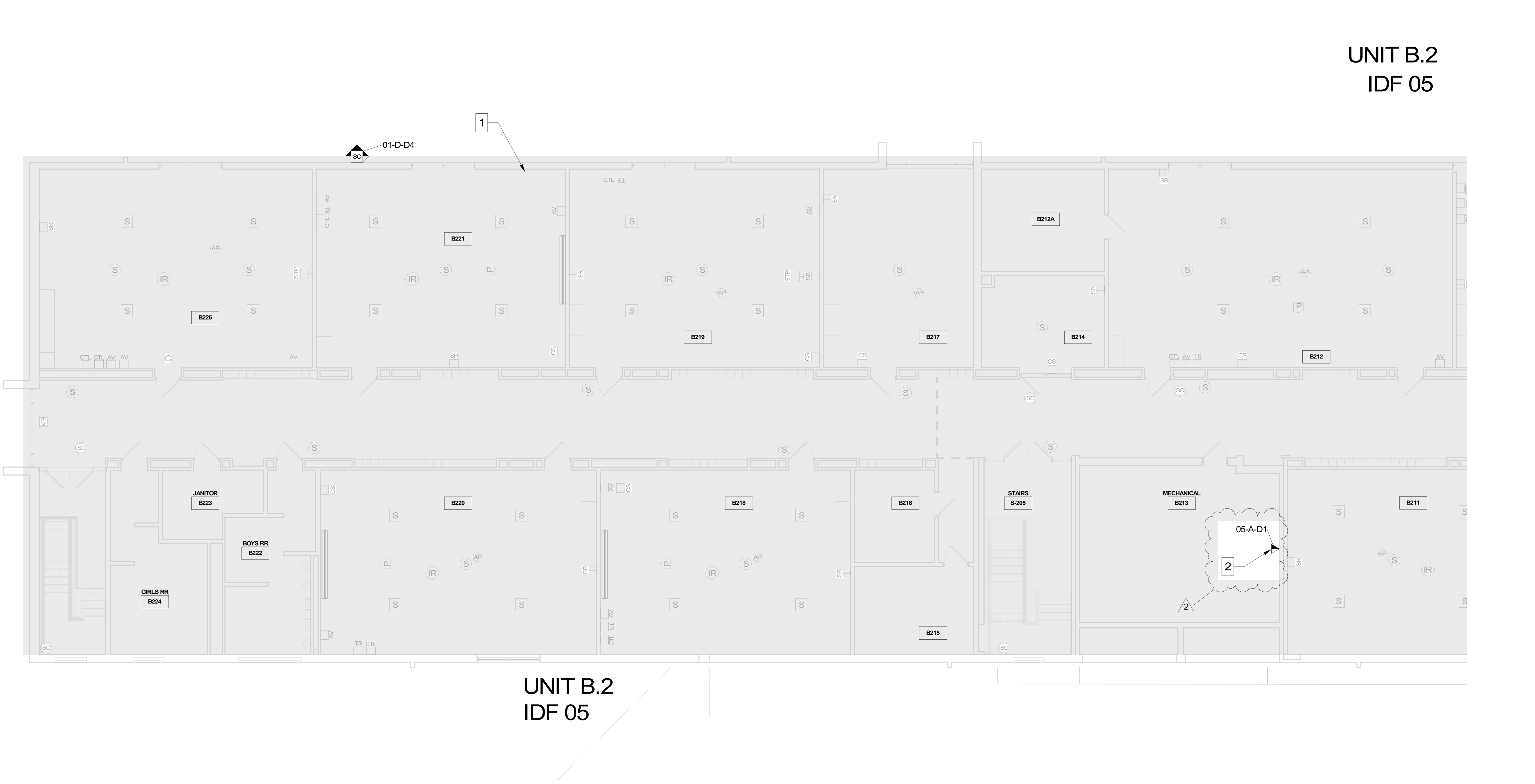
WASHINGTON TOWNSHIP SCHOOLS

SERIVCE CENTER RENOVATION - PHASE 6B

SECOND FLOOR TECHNOLOGY PLAN - UNIT B1

T202B1

6 5 4 3 2 1



1 SECOND FLOOR TECHNOLOGY PLAN - UNIT B2
1/8" = 1'-0"

GENERAL HORIZONTAL CABLING NOTES

A	MINIMUM CATEGORY 6A COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
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TECHNOLOGY LEGEND

- DATA LOCATION - SURFACE MOUNTED
- DATA LOCATION - FLUSH MOUNTED
- DATA RACEWAY - SURFACE MOUNTED
- DATA RACEWAY - FLUSH MOUNTED
- DATA RE-CABLE LOCATION - SURFACE MOUNTED
- DIGITAL SIGNAGE LOCATION - FLUSH MOUNTED
- MON MONITOR LOCATION - FLUSH MOUNTED
- MON MONITOR LOCATION - SURFACE MOUNTED
- PP POWER POLE LOCATION
- P PROJECTOR LOCATION
- STP SHORT THROW PROJECTOR LOCATION
- TS TEACHER STATION LOCATION - SURFACE MOUNTED
- WALL PHONE LOCATION - FLUSH MOUNTED
- WALL PHONE LOCATION - SURFACE MOUNTED
- AP WIRELESS ACCESS POINT - CEILING MOUNTED
- AV AV INPUT LOCATION - SURFACE MOUNTED
- AV AV INPUT LOCATION - FLUSH MOUNTED
- AV CONTROL LOCATION - FLUSH MOUNTED
- AV CONTROL LOCATION - SURFACE MOUNTED
- AV RACK AV RACK LOCATION
- BA BLUETOOTH RECEIVER ANTENNA LOCATION - FLUSH MOUNTED
- BA BLUETOOTH RECEIVER ANTENNA LOCATION - SURFACE MOUNTED
- CS CALL SWITCH LOCATION - SURFACE MOUNTED
- C CLOCK LOCATION - SURFACE MOUNTED
- C C DUAL SIDED CLOCK LOCATION - SURFACE MOUNTED
- HA HEARING ASSISTANCE ANTENNA LOCATION
- IR IR MICROPHONE LOCATION
- S PAGING SPEAKER - CEILING MOUNTED
- S PROGRAM SPEAKER - CEILING MOUNTED
- S PROGRAM SPEAKER - PENDANT MOUNTED
- SPK PROGRAM SPEAKER - SURFACE MOUNTED
- TP TOUCH PANEL LOCATION - FLUSH MOUNTED
- TP TOUCH PANEL LOCATION - SURFACE MOUNTED
- RS ROOM SCHEDULER - FLUSH MOUNTED
- RS ROOM SCHEDULER - SURFACE MOUNTED
- WA WIRELESS MICROPHONE ANTENNA
- VC VOLUME CONTROL - FLUSH MOUNTED
- VC VOLUME CONTROL - SURFACE MOUNTED
- CR CARD READER LOCATION
- CR CARD READER LOCATION - MULLION MOUNTED
- D DOOR POSITION SWITCH LOCATION
- AI AUDIO INTERCOM DOOR STATION LOCATION
- VI VIDEO INTERCOM DOOR STATION LOCATION
- MS MOTION SENSOR - SURFACE MOUNTED
- MS MOTION SENSOR - CEILING MOUNTED
- KP INTRUSION DETECTION KEYPAD LOCATION
- DB DURESS BUTTON LOCATION
- DR DOOR RELEASE BUTTON
- AS VIDEO INTERCOM ANSWERING STATION - DESK MOUNTED
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SHEET NOTES

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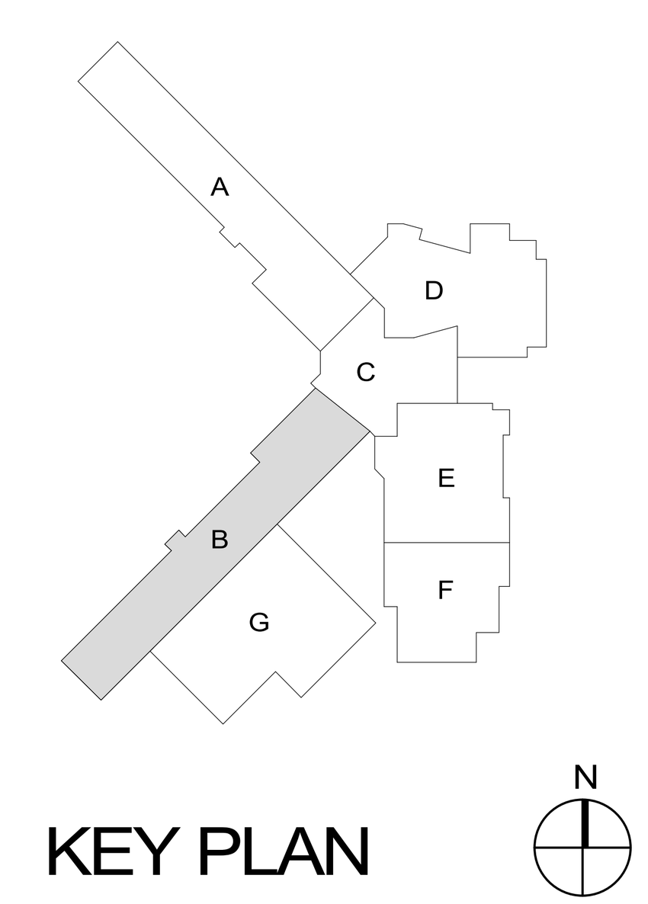


KEY PLAN

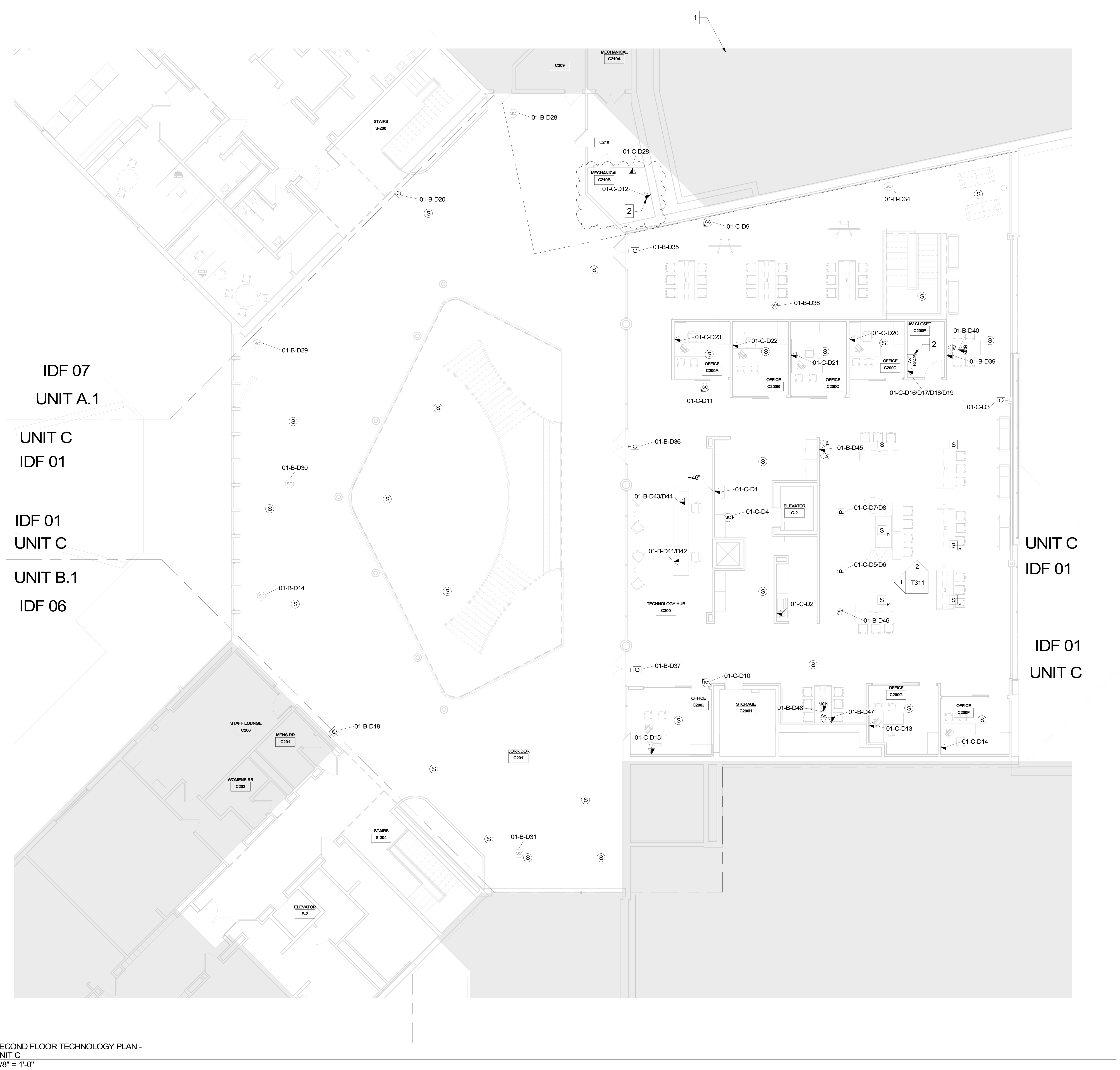
M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERIVCE CENTER RENOVATION - PHASE 6B

SECOND FLOOR TECHNOLOGY PLAN - UNIT B2

T202B2



1 SECOND FLOOR TECHNOLOGY PLAN - UNIT C
1/8" = 1'-0"

GENERAL HORIZONTAL CABLING NOTES

A	MINIMUM CATEGORY 6A COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
B	MANUFACTURER CERTIFIED INCLUDING THE MINIMIMUM PERFORMANCE AND APPLICATIONS WARRANTY.
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TECHNOLOGY LEGEND

- DATA LOCATION - SURFACE MOUNTED
- DATA LOCATION - FLUSH MOUNTED
- SR DATA RACEWAY - SURFACE MOUNTED
- SR DATA RACEWAY - FLUSH MOUNTED
- DATA RE-CABLE LOCATION - SURFACE MOUNTED
- DS DIGITAL SIGNAGE LOCATION - FLUSH MOUNTED
- MON MONITOR LOCATION - FLUSH MOUNTED
- MON MONITOR LOCATION - SURFACE MOUNTED
- PP POWER POLE LOCATION
- P PROJECTOR LOCATION
- STP SHORT THROW PROJECTOR LOCATION
- TS TEACHER STATION LOCATION - SURFACE MOUNTED
- WALL PHONE LOCATION - FLUSH MOUNTED
- WALL PHONE LOCATION - SURFACE MOUNTED
- AP WIRELESS ACCESS POINT - CEILING MOUNTED
- AV AV INPUT LOCATION - SURFACE MOUNTED
- AV AV INPUT LOCATION - FLUSH MOUNTED
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- AV CONTROL LOCATION - SURFACE MOUNTED
- AV RACK AV RACK LOCATION
- BA BLUETOOTH RECEIVER ANTENNA LOCATION - FLUSH MOUNTED
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- IR IR MICROPHONE LOCATION
- S PAGING SPEAKER - CEILING MOUNTED
- S PROGRAM SPEAKER - CEILING MOUNTED
- S PROGRAM SPEAKER - PENDANT MOUNTED
- SPK PROGRAM SPEAKER - SURFACE MOUNTED
- TP TOUCH PANEL LOCATION - FLUSH MOUNTED
- TP TOUCH PANEL LOCATION - SURFACE MOUNTED
- RS ROOM SCHEDULER - FLUSH MOUNTED
- RS ROOM SCHEDULER - SURFACE MOUNTED
- WA WIRELESS MICROPHONE ANTENNA
- VC VOLUME CONTROL - FLUSH MOUNTED
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- CR CARD READER LOCATION
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- AI AUDIO INTERCOM DOOR STATION LOCATION
- VI VIDEO INTERCOM DOOR STATION LOCATION
- MS MOTION SENSOR - SURFACE MOUNTED
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2 AV RACK TO SERVE DINING AREA.
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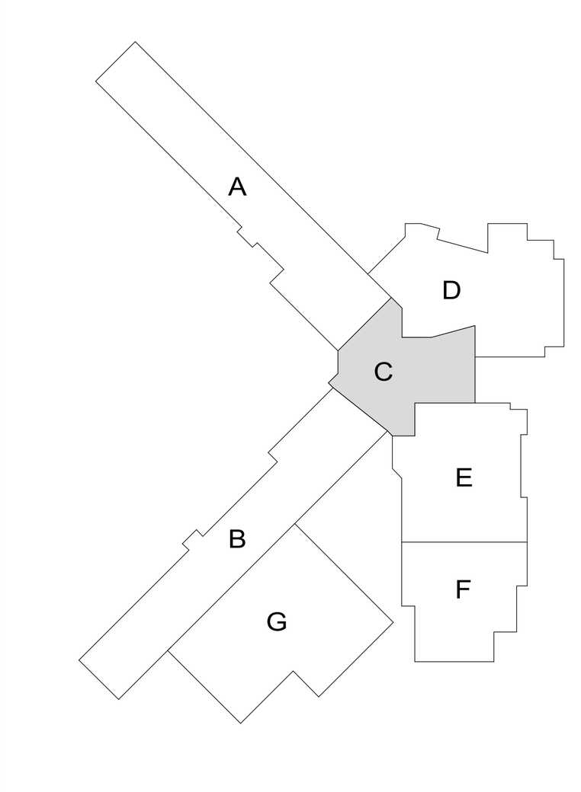


KEY PLAN

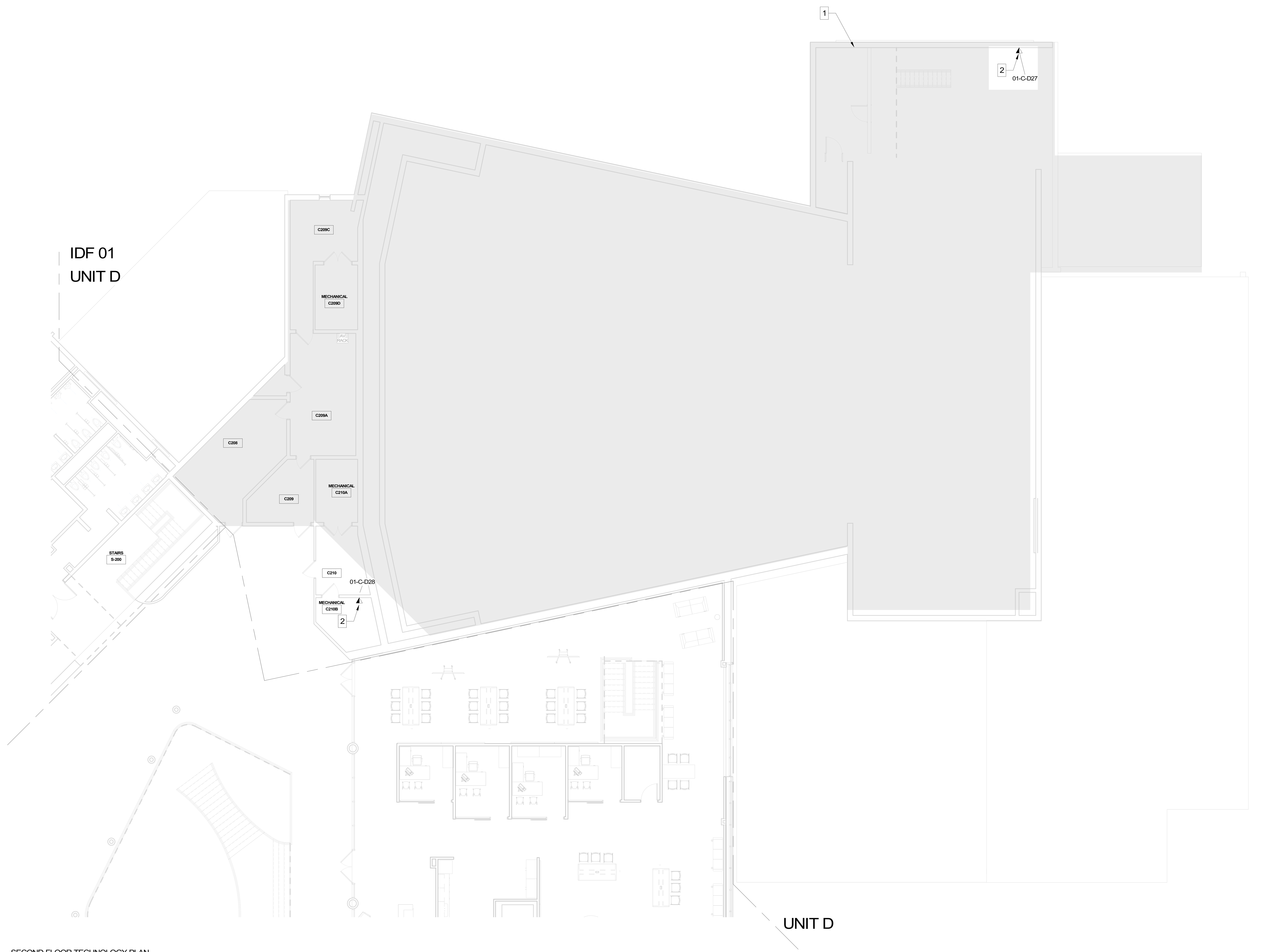
M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERIVCE CENTER RENOVATION - PHASE 6B

SECOND FLOOR TECHNOLOGY PLAN - UNIT C

T202C



1 SECOND FLOOR TECHNOLOGY PLAN - UNIT D
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E	ALL PIN/PAIR ASSIGNMENTS SHALL BE T568B.
F	REFER TO SPECIFICATION SECTION 27 15 13 FOR CABLE JACKET COLOR REQUIREMENTS
G	LABELING SHALL BE COMPLETED AS DEFINED IN THE CONTRACT DOCUMENTS AND SHALL BE COORDINATED WITH THE OWNER.
H	PROVIDE ALL TELECOMMUNICATION OUTLETS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE CONNECTIONS FOR EACH DEVICE SHOWN ON THE DRAWINGS.
I	ALL TESTING OF HORIZONTAL CABLING SHALL BE COMPLETED AS DIRECTED BY THE PROJECT SPECIFICATIONS. ALL CABLING MUST BE TESTED AND CERTIFIED TO THE APPLICABLE STANDARDS.

TECHNOLOGY LEGEND

Symbol	Description
	DATA LOCATION - SURFACE MOUNTED
	DATA LOCATION - FLUSH MOUNTED
SR	DATA RACEWAY - SURFACE MOUNTED
SR	DATA RACEWAY - FLUSH MOUNTED
RC	DATA RE-CABLE LOCATION - SURFACE MOUNTED
DS	DIGITAL SIGNAGE LOCATION - FLUSH MOUNTED
MON	MONITOR LOCATION - FLUSH MOUNTED
MON	MONITOR LOCATION - SURFACE MOUNTED
PP	POWER POLE LOCATION
P	PROJECTOR LOCATION
STP	SHORT THROW PROJECTOR LOCATION
TS	TEACHER STATION LOCATION - SURFACE MOUNTED
WP	WALL PHONE LOCATION - FLUSH MOUNTED
WP	WALL PHONE LOCATION - SURFACE MOUNTED
AP	WIRELESS ACCESS POINT - CEILING MOUNTED
AV	AV INPUT LOCATION - SURFACE MOUNTED
AV	AV INPUT LOCATION - FLUSH MOUNTED
CTL	AV CONTROL LOCATION - FLUSH MOUNTED
CTL	AV CONTROL LOCATION - SURFACE MOUNTED
AV RACK	AV RACK LOCATION
BA	BLUETOOTH RECEIVER ANTENNA LOCATION - FLUSH MOUNTED
BA	BLUETOOTH RECEIVER ANTENNA LOCATION - SURFACE MOUNTED
CS	CALL SWITCH LOCATION - SURFACE MOUNTED
C	CLOCK LOCATION - SURFACE MOUNTED
C C	DUAL SIDED CLOCK LOCATION - SURFACE MOUNTED
HA	HEARING ASSISTANCE ANTENNA LOCATION
IR	IR MICROPHONE LOCATION
S	PAGING SPEAKER - CEILING MOUNTED
S	PROGRAM SPEAKER - CEILING MOUNTED
S_P	PROGRAM SPEAKER - PENDANT MOUNTED
SPK	PROGRAM SPEAKER - SURFACE MOUNTED
TP	TOUCH PANEL LOCATION - FLUSH MOUNTED
TP	TOUCH PANEL LOCATION - SURFACE MOUNTED
RS	ROOM SCHEDULER - FLUSH MOUNTED
RS	ROOM SCHEDULER - SURFACE MOUNTED
WA	WIRELESS MICROPHONE ANTENNA
VC	VOLUME CONTROL - FLUSH MOUNTED
VC	VOLUME CONTROL - SURFACE MOUNTED
CR	CARD READER LOCATION
CR	CARD READER LOCATION - MULLION MOUNTED
D	DOOR POSITION SWITCH LOCATION
AI	AUDIO INTERCOM DOOR STATION LOCATION
VI	VIDEO INTERCOM DOOR STATION LOCATION
MS	MOTION SENSOR - SURFACE MOUNTED
MS	MOTION SENSOR - CEILING MOUNTED
KP	INTRUSION DETECTION KEYPAD LOCATION
DB	DURESS BUTTON LOCATION
DR	DOOR RELEASE BUTTON
AS	VIDEO INTERCOM ANSWERING STATION - DESK MOUNTED
SC	SECURITY CAMERA - CEILING MOUNTED
SC	SECURITY CAMERA - WALL MOUNTED

SHEET NOTES

1 SHADED AREA OUTSIDE OF CONSTRUCTION SCOPE. ALL DEVICES WITHIN REGION SHALL BE PROTECTED IN PLACE THROUGH CONSTRUCTION.

2 DATA LOCATION SERVING BAS EQUIPMENT. COORDINATE FINAL LOCATION WITH TEMOERTURE CONTROLS CONTRACTOR.

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#	Revision	Date
1	Addendum #01	08/22/2024

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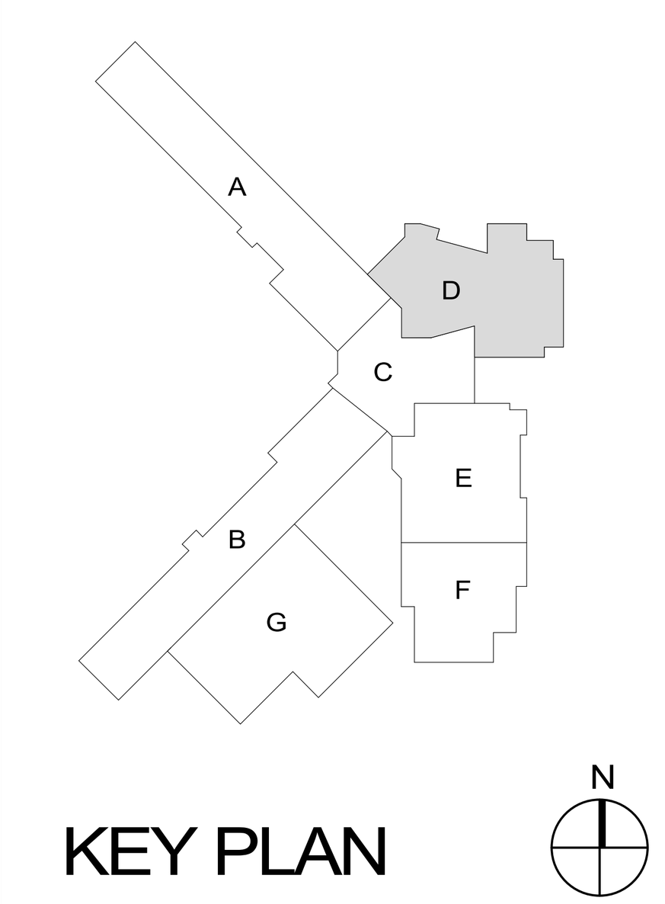

KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

SERIVCE CENTER RENOVATION - PHASE 6B

SECOND FLOOR TECHNOLOGY PLAN - UNIT D

T202D

MDF 00 TECHNOLOGY SCHEDULE

ROOM NUMBER	LABEL	TELECOM ROOM	DATA PORTS	COMMENTS
A102	00-L-D1	00	1	BAS DATA LOCATION
A111	00-L-D2	00	1	BAS DATA LOCATION
B226	00-L-D3	00	1	CLOCK LOCATION - SURFACE MOUNTED
C100	00-L-D4	00	1	CLOCK LOCATION - SURFACE MOUNTED
C101	00-L-D5	00	1	DATA LOCATION - FLUSH MOUNTED
C101	00-L-D6	00	1	DATA LOCATION - FLUSH MOUNTED
C101	00-L-D7	00	1	CLOCK LOCATION - SURFACE MOUNTED
C101	00-L-D8	00	1	DATA LOCATION - SURFACE MOUNTED
C101	00-L-D9	00	1	WIRELESS ACCESS POINT - CEILING MOUNTED
C101	00-L-D10	00	1	CLOCK LOCATION - SURFACE MOUNTED
C101	00-L-D11	00	1	DATA LOCATION - SURFACE MOUNTED
C101A	00-L-D12	00	1	CLOCK LOCATION - SURFACE MOUNTED
C101A	00-L-D13	00	1	DATA LOCATION - SURFACE MOUNTED
C101A	00-L-D14	00	1	DATA LOCATION - SURFACE MOUNTED
C101A	00-L-D15	00	1	DATA LOCATION - SURFACE MOUNTED
C101B	00-L-D16	00	1	DATA LOCATION - SURFACE MOUNTED
C101B	00-L-D17	00	1	DATA LOCATION - SURFACE MOUNTED
C101B	00-L-D18	00	1	CLOCK LOCATION - SURFACE MOUNTED
EXT	00-L-D19	00	1	SECURITY CAMERA - POLE MOUNTED
Grand total			19	

IDF 05 TECHNOLOGY SCHEDULE

ROOM NUMBER	LABEL	TELECOM ROOM	DATA PORTS	COMMENTS
B213	05-A-D1	05	1	BAS DATA LOCATION
Grand total			1	

IDF 06 TECHNOLOGY SCHEDULE

ROOM NUMBER	LABEL	TELECOM ROOM	DATA PORTS	COMMENTS
B208	06-A-D1	06	1	BAS DATA LOCATION
C101	06-A-D2	06	1	SECURITY CAMERA - CEILING MOUNTED
Grand total			2	

IDF 06 ACCESS CONTROL SCHEDULE

DOOR NUMBER	LABEL	TELECOM ROOM	COMMENTS
BC200	BC200-DPS	06	EAC DOOR TYPE D1M

IDF 01 TECHNOLOGY SCHEDULE

ROOM NUMBER	LABEL	TELECOM ROOM	DATA PORTS	COMMENTS
B101	01-A-D1	01	1	DATA LOCATION - SURFACE MOUNTED
B101	01-A-D2	01	1	CLOCK LOCATION - SURFACE MOUNTED
B101	01-A-D3	01	1	WIRELESS ACCESS POINT - CEILING MOUNTED
B101	01-A-D4	01	1	WIRELESS ACCESS POINT - CEILING MOUNTED
B101	01-A-D5	01	1	ROOM SCHEDULER LOCATION - SURFACE MOUNTED
B102	01-A-D6	01	1	MONITOR LOCATION - FLUSH MOUNTED
B102	01-A-D7	01	1	CLOCK LOCATION - SURFACE MOUNTED
B103	01-A-D8/D9	01	2	BAS DATA LOCATION
B103A	01-A-D10	01	1	DATA LOCATION - SURFACE MOUNTED
B103A	01-A-D11	01	1	CLOCK LOCATION - SURFACE MOUNTED
B103C	01-A-D12	01	1	DATA LOCATION - FLUSH MOUNTED
B103E	01-A-D13	01	1	DATA LOCATION - SURFACE MOUNTED
B103F	01-A-D14	01	1	DATA LOCATION - SURFACE MOUNTED
B103F	01-A-D15	01	1	CLOCK LOCATION - SURFACE MOUNTED
B103G	01-A-D16	01	1	CLOCK LOCATION - SURFACE MOUNTED
B103G	01-A-D17	01	1	MONITOR LOCATION - SURFACE MOUNTED
B103G	01-A-D18	01	1	DATA LOCATION - SURFACE MOUNTED
B103G	01-A-D19	01	1	MONITOR LOCATION - SURFACE MOUNTED
B103G	01-A-D20	01	1	MONITOR LOCATION - SURFACE MOUNTED
B103G	01-A-D21/D22/D23/D24	01	4	DATA LOCATION - SURFACE MOUNTED
B103H	01-A-D25	01	1	WALL PHONE LOCATION - SURFACE MOUTNED
B103J	01-A-D26	01	1	DATA LOCATION - SURFACE MOUNTED
B103J	01-A-D27	01	1	CLOCK LOCATION - SURFACE MOUNTED
B103K	01-A-D28	01	1	DATA LOCATION - SURFACE MOUNTED
B103L	01-A-D29	01	1	DATA LOCATION - SURFACE MOUNTED
B104	01-A-D30	01	1	DATA LOCATION - SURFACE MOUNTED
B104	01-A-D31	01	1	WIRELESS ACCESS POINT - CEILING MOUNTED
B104	01-A-D32	01	1	CLOCK LOCATION - SURFACE MOUNTED
B104	01-A-D33	01	1	SHORT THROW PROJECTOR LOCATION
B105A	01-A-D34	01	1	DATA LOCATION - SURFACE MOUNTED
B105A	01-A-D35	01	1	DATA LOCATION - SURFACE MOUNTED
B105A	01-A-D36/D37	01	2	DATA LOCATION - SURFACE MOUNTED
B105B	01-A-D38	01	1	DATA LOCATION - SURFACE MOUNTED
B105C	01-A-D39	01	1	DATA LOCATION - SURFACE MOUNTED
B105F	01-A-D40	01	1	DATA LOCATION - SURFACE MOUNTED
B105H	01-A-D41	01	1	DATA LOCATION - SURFACE MOUNTED
B105H	01-A-D42	01	1	MONITOR LOCATION - SURFACE MOUNTED
B105J	01-A-D43	01	1	DATA LOCATION - SURFACE MOUNTED
B105J	01-A-D44	01	1	MONITOR LOCATION - SURFACE MOUNTED
B107	01-A-D45	01	1	DUAL SIDE CLOCK - SURFACE MOUNTED
B107	01-A-D46	01	1	ROOM SCHEDULER LOCATION - SURFACE MOUNTED
B107	01-A-D47	01	1	ROOM SCHEDULER LOCATION - SURFACE MOUNTED
B107	01-A-D48	01	1	SECURITY CAMERA - REINSTALLED EXISTING SINGLE SENSOR
B110	01-B-D1	01	1	DATA LOCATION - SURFACE MOUNTED
B110	01-B-D2	01	1	DATA LOCATION - SURFACE MOUNTED
B110	01-B-D3	01	1	DATA LOCATION - SURFACE MOUNTED
B110	01-B-D4	01	1	MONITOR LOCATION - SURFACE MOUNTED
B110	01-B-D5	01	1	CLOCK LOCATION - SURFACE MOUNTED
B110	01-B-D6	01	1	DATA LOCATION - SURFACE MOUNTED
B115	01-B-D7/D8	01	2	BAS DATA LOCATION
B225	01-B-D9	01	1	SECURITY CAMERA - CEILING MOUNTED
B225	01-B-D10	01	1	SECURITY CAMERA - CEILING MOUNTED
B225	01-B-D11	01	1	DUAL SIDE CLOCK - SURFACE MOUNTED
B226	01-B-D12	01	1	SECURITY CAMERA - CEILING MOUNTED
B226	01-B-D13	01	1	SECURITY CAMERA - CEILING MOUNTED
B226	01-B-D14	01	1	SECURITY CAMERA - CEILING MOUNTED
B226	01-B-D15	01	1	SECURITY CAMERA - CEILING MOUNTED
B226	01-B-D16	01	1	SECURITY CAMERA - CEILING MOUNTED
B226	01-B-D17	01	1	CLOCK LOCATION - SURFACE MOUNTED
B226	01-B-D18	01	1	WIRELESS ACCESS POINT - CEILING MOUNTED
B226	01-B-D19	01	1	CLOCK LOCATION - SURFACE MOUNTED
B226	01-B-D20	01	1	CLOCK LOCATION - SURFACE MOUNTED
B226	01-B-D21	01	1	SECURITY CAMERA - CEILING MOUNTED
B226	01-B-D22	01	1	BAS DATA LOCATION
B226	01-B-D23	01	1	BAS DATA LOCATION
C001	01-B-D24	01	1	DATA LOCATION - SURFACE MOUNTED
C001	01-B-D25	01	1	BAS DATA LOCATION
C001	01-B-D26	01	1	BAS DATA LOCATION
C002	01-B-D27	01	1	BAS DATA LOCATION
C101	01-B-D28	01	1	SECURITY CAMERA - CEILING MOUNTED
C101	01-B-D29	01	1	SECURITY CAMERA - CEILING MOUNTED
C101	01-B-D30	01	1	SECURITY CAMERA - CEILING MOUNTED
C101	01-B-D31	01	1	SECURITY CAMERA - CEILING MOUNTED
C102H	01-B-D32	01	1	DATA LOCATION - SURFACE MOUNTED
C105H	01-B-D33	01	1	BAS DATA LOCATION
C200	01-B-D34	01	1	SECURITY CAMERA - CEILING MOUNTED
C200	01-B-D35	01	1	CLOCK LOCATION - SURFACE MOUNTED
C200	01-B-D36	01	1	CLOCK LOCATION - SURFACE MOUNTED
C200	01-B-D37	01	1	CLOCK LOCATION - SURFACE MOUNTED
C200	01-B-D38	01	1	WIRELESS ACCESS POINT - CEILING MOUNTED
C200	01-B-D39	01	1	DATA LOCATION - FLUSH MOUNTED
C200	01-B-D40	01	1	MONITOR LOCATION - FLUSH MOUNTED
C200	01-B-D41/D42	01	2	DATA LOCATION - FLUSH MOUNTED
C200	01-B-D43/D44	01	2	DATA LOCATION - FLUSH MOUNTED
C200	01-B-D45	01	1	DATA LOCATION - FLUSH MOUNTED
C200	01-B-D46	01	1	WIRELESS ACCESS POINT - CEILING MOUNTED
C200	01-B-D47	01	1	DATA LOCATION - FLUSH MOUNTED
C200	01-B-D48	01	1	MONITOR LOCATION - FLUSH MOUNTED
C200	01-C-D1	01	1	DATA LOCATION - FLUSH MOUNTED
C200	01-C-D2	01	1	DATA LOCATION - FLUSH MOUNTED
C200	01-C-D3	01	1	CLOCK LOCATION - SURFACE MOUNTED
C200	01-C-D4	01	1	SECURITY CAMERA - REINSTALLED EXISTING SINGLE SENSOR
C200	01-C-D5/D6	01	2	PROJECTOR LOCATION
C200	01-C-D7/D8	01	2	PROJECTOR LOCATION
C200	01-C-D9	01	1	SECURITY CAMERA - REINSTALLED EXISTING SINGLE SENSOR
C200	01-C-D10	01	1	SECURITY CAMERA - REINSTALLED EXISTING SINGLE SENSOR
C200	01-C-D11	01	1	SECURITY CAMERA - REINSTALLED EXISTING SINGLE SENSOR
C200	01-C-D12	01	1	BAS DATA LOCATION
C205	01-C-D13	01	1	DATA LOCATION - FLUSH MOUNTED
C206	01-C-D14	01	1	DATA LOCATION - FLUSH MOUNTED
C207	01-C-D15	01	1	DATA LOCATION - FLUSH MOUNTED
C208	01-C-D16/D17/D18/D19	01	4	DATA LOCATION - FLUSH MOUNTED
C209	01-C-D20	01	1	DATA LOCATION - FLUSH MOUNTED
C210	01-C-D21	01	1	DATA LOCATION - FLUSH MOUNTED
C211	01-C-D22	01	1	DATA LOCATION - FLUSH MOUNTED
C213	01-C-D23	01	1	DATA LOCATION - FLUSH MOUNTED
D100	01-C-D24	01	1	CLOCK LOCATION - SURFACE MOUNTED
D100	01-C-D25	01	1	DATA RE-CABLE LOCATION
D100	01-C-D26	01	1	DATA LOCATION - SURFACE MOUNTED
D102	01-C-D27	01	1	BAS DATA LOCATION
D102	01-C-D28	01	1	BAS DATA LOCATION
D106	01-C-D29	01	1	WIRELESS ACCESS POINT - CEILING MOUNTED
D106	01-C-D30	01	1	DATA RE-CABLE LOCATION
D106	01-C-D31	01	1	CLOCK LOCATION - SURFACE MOUNTED
D106A	01-C-D32	01	1	DATA LOCATION - SURFACE MOUNTED
D108	01-C-D33	01	1	CLOCK LOCATION - SURFACE MOUNTED
D108	01-C-D34	01	1	WIRELESS ACCESS POINT - CEILING MOUNTED
D108	01-C-D35/D36	01	2	DATA LOCATION - SURFACE MOUNTED
D108	01-C-D37/D38	01	2	DATA LOCATION - SURFACE MOUNTED
D108	01-C-D39/D40	01	2	DATA LOCATION - SURFACE MOUNTED
D108	01-C-D41/D42	01	2	DATA LOCATION - SURFACE MOUNTED
D108A	01-C-D43	01	1	DATA RE-CABLE LOCATION
D110	01-C-D44	01	1	SECURITY CAMERA - CEILING MOUNTED
D110	01-C-D45	01	1	DUAL SIDE CLOCK - SURFACE MOUNTED
D110	01-C-D46	01	1	BAS DATA LOCATION
D110	01-C-D47	01	1	BAS DATA LOCATION
EXT	01-C-D48	01	1	SECURITY CAMERA - WALL MOUNTED
EXT	01-D-D1	01	1	VIDEO INTERCOM DOOR STATION
EXT	01-D-D2	01	1	SECURITY CAMERA - POLE MOUNTED
EXT	01-D-D3	01	1	SECURITY CAMERA - MOUNT UNDER AWNING BULKHEAD
EXT	01-D-D4	01	1	SECURITY CAMERA - WALL MOUNTED 6" BELOW TOP OF BRICK
V100	01-D-D5	01	1	SECURITY CAMERA - CEILING MOUNTED
V100	01-D-D6	01	1	VIDEO INTERCOM DOOR STATION
V100	01-D-D7	01	1	DATA LOCATION - SURFACE MOUNTED
Grand total			151	

IDF 01 ACCESS CONTROL SCHEDULE

DOOR NUMBER	LABEL	TELECOM ROOM	COMMENTS
B107.1	B107.1-CR	01	EAC DOOR TYPE D3M
B107.2	B107.2-CR	01	EAC DOOR TYPE D3M
EX-B-103	EX-B-103-CR	01	EAC DOOR TYPE S3

IDF 02 TECHNOLOGY SCHEDULE

ROOM NUMBER	LABEL	TELECOM ROOM	DATA PORTS	COMMENTS
B117	02-A-D1	02	1	BAS DATA LOCATION
CA002	02-A-D2	02	1	SECURITY CAMERA - CEILING MOUNTED
CA002	02-A-D3	02	1	SECURITY CAMERA - CEILING MOUNTED
CA002	02-A-D4	02	1	SECURITY CAMERA - REINSTALLED EXISTING SINGLE SENSOR
CA002	02-A-D5	02	1	DUAL SIDE CLOCK - SURFACE MOUNTED
EX	02-A-D6	02	1	VIDEO INTERCOM DOOR STATION
EXT	02-A-D7	02	1	SECURITY CAMERA - WALL MOUNTED
EXT	02-A-D8	02	1	SECURITY CAMERA - WALL MOUNTED 6" BELOW TOP OF BRICK
F100	02-A-D9/D10	02	2	PROJECTOR LOCATION
F100	02-A-D11/D12	02	2	PROJECTOR LOCATION
F100	02-A-D13	02	1	WIRELESS ACCESS POINT - CEILING MOUNTED
F100	02-A-D14	02	1	WIRELESS ACCESS POINT - CEILING MOUNTED
F100	02-A-D15	02	1	CLOCK LOCATION - SURFACE MOUNTED
F100	02-A-D16	02	1	DATA LOCATION - SURFACE MOUNTED
F100	02-A-D17	02	1	SECURITY CAMERA - REINSTALLED EXISTING SINGLE SENSOR
F100	02-A-D18	02	1	SECURITY CAMERA - NEW MULTI-SENSOR
F101	02-A-D19	02	1	CLOCK LOCATION - SURFACE MOUNTED
F101	02-A-D20	02	1	SHORT THROW PROJECTOR LOCATION
F101	02-A-D21	02	1	WIRELESS ACCESS POINT - CEILING MOUNTED
F101	02-A-D22	02	1	WALL PHONE LOCATION - SURFACE MOUTNED
F101	02-A-D23	02	1	DATA LOCATION - SURFACE MOUNTED
F102	02-A-D24	02	1	DATA LOCATION - FLUSH MOUNTED
F102	02-A-D25	02	1	WALL PHONE LOCATION - SURFACE MOUTNED
F102	02-A-D26	02	1	WIRELESS ACCESS POINT - CEILING MOUNTED
F102	02-A-D27	02	1	SHORT THROW PROJECTOR LOCATION
F102	02-A-D28	02	1	CLOCK LOCATION - SURFACE MOUNTED
F103	02-A-D29	02	1	CLOCK LOCATION - SURFACE MOUNTED
F103	02-A-D30	02	1	SHORT THROW PROJECTOR LOCATION
F103	02-A-D31	02	1	WIRELESS ACCESS POINT - CEILING MOUNTED
F103	02-A-D32	02	1	DATA LOCATION - SURFACE MOUNTED
F103	02-A-D33	02	1	WALL PHONE LOCATION - SURFACE MOUTNED
F104	02-A-D34	02	1	CLOCK LOCATION - SURFACE MOUNTED
F104	02-A-D35	02	1	SHORT THROW PROJECTOR LOCATION
F104	02-A-D36	02	1	DATA LOCATION - SURFACE MOUNTED
F104	02-A-D37	02	1	WALL PHONE LOCATION - SURFACE MOUTNED
F104	02-A-D38	02	1	WIRELESS ACCESS POINT - CEILING MOUNTED
F105	02-A-D39	02	1	CLOCK LOCATION - SURFACE MOUNTED
F105	02-A-D40	02	1	SHORT THROW PROJECTOR LOCATION
F105	02-A-D41	02	1	WIRELESS ACCESS POINT - CEILING MOUNTED
F105	02-A-D42	02	1	DATA LOCATION - SURFACE MOUNTED
F105	02-A-D43	02	1	WALL PHONE LOCATION - SURFACE MOUTNED
F107	02-A-D44	02	1	CLOCK LOCATION - SURFACE MOUNTED
F107	02-A-D45	02	1	SHORT THROW PROJECTOR LOCATION
F107	02-A-D46	02	1	WIRELESS ACCESS POINT - CEILING MOUNTED
F107	02-A-D47	02	1	DATA LOCATION - SURFACE MOUNTED
F107	02-A-D48	02	1	WALL PHONE LOCATION - SURFACE MOUTNED
F108	02-B-D1	02	1	CLOCK LOCATION - SURFACE MOUNTED
F108	02-B-D2	02	1	DATA LOCATION - SURFACE MOUNTED
F109	02-B-D3	02	1	CLOCK LOCATION - SURFACE MOUNTED
F109	02-B-D4	02	1	WIRELESS ACCESS POINT - CEILING MOUNTED
F109	02-B-D5	02	1	DATA LOCATION - SURFACE MOUNTED
F109	02-B-D6	02	1	WALL PHONE LOCATION - SURFACE MOUTNED
F109	02-B-D7	02	1	SHORT THROW PROJECTOR LOCATION
G100B	02-B-D46	02	1	CLOCK LOCATION - SURFACE MOUNTED
G101	02-B-D8	02	1	DATA LOCATION - SURFACE MOUNTED
G101	02-B-D9	02	1	WALL PHONE LOCATION - SURFACE MOUTNED
G101	02-B-D10	02	1	MONITOR LOCATION - FLUSH MOUNTED
G101	02-B-D11	02	1	CLOCK LOCATION - SURFACE MOUNTED
G102	02-B-D12	02	1	WIRELESS ACCESS POINT - CEILING MOUNTED
G102	02-B-D13	02	1	SHORT THROW PROJECTOR LOCATION
G102	02-B-D14	02	1	CLOCK LOCATION - SURFACE MOUNTED
G102	02-B-D15	02	1	DATA LOCATION - SURFACE MOUNTED
G102	02-B-D16	02	1	WALL PHONE LOCATION - SURFACE MOUTNED
G103	02-B-D17	02	1	WIRELESS ACCESS POINT - CEILING MOUNTED
G103	02-B-D18	02	1	CLOCK LOCATION - SURFACE MOUNTED
G103	02-B-D19	02	1	WALL PHONE LOCATION - SURFACE MOUTNED
G103	02-B-D20	02	1	DATA LOCATION - SURFACE MOUNTED
G103	02-B-D21	02	1	SHORT THROW PROJECTOR LOCATION
G104	02-B-D22	02	1	WIRELESS ACCESS POINT - CEILING MOUNTED
G104	02-B-D23	02	1	SHORT THROW PROJECTOR LOCATION
G104	02-B-D24	02	1	CLOCK LOCATION - SURFACE MOUNTED
G104	02-B-D25	02	1	DATA LOCATION - SURFACE MOUNTED
G104	02-B-D26	02	1	WALL PHONE LOCATION - SURFACE MOUTNED
G104A	02-B-D27	02	1	BAS DATA LOCATION
G106	02-B-D29	02	1	CLOCK LOCATION - SURFACE MOUNTED
G106	02-B-D30	02	1	SECURITY CAMERA - REINSTALLED EXISTING FISHEYE
G106	02-B-D31	02	1	WIRELESS ACCESS POINT - CEILING MOUNTED
G106	02-B-D32/D33	02	2	FLOOR BOX LOCATION
G106D	02-B-D28/C19/C20/C21	02	4	DATA LOCATION - SURFACE MOUNTED
G112	02-B-D34	02	1	BAS DATA LOCATION
GC100	02-B-D35	02	1	DUAL SIDE CLOCK - SURFACE MOUNTED
GC100	02-B-D36	02	1	SECURITY CAMERA - CEILING MOUNTED
GC100	02-B-D37	02	1	SECURITY CAMERA - CEILING MOUNTED
GC100	02-B-D38	02	1	SECURITY CAMERA - CEILING MOUNTED
GC100	02-B-D39	02	1	SECURITY CAMERA - CEILING MOUNTED
H100	02-B-D40	02	1	CLOCK LOCATION - SURFACE MOUNTED
H100A	02-B-D41	02	1	CLOCK LOCATION - SURFACE MOUNTED
H100A	02-B-D42	02	1	DATA LOCATION - FLUSH MOUNTED
H100A	02-B-D43	02	1	DATA LOCATION - FLUSH MOUNTED
H100A	02-B-D44	02	1	WIRELESS ACCESS POINT - CEILING MOUNTED
H100A	02-B-D45	02	1	ROOM SCHEDULER LOCATION FLUSHED MOUNTED
H100B	02-B-D47	02	1	DATA LOCATION - SURFACE MOUNTED
H100D	02-B-D48	02	1	CLOCK LOCATION - SURFACE MOUNTED
H100D	02-C-D1	02	1	DATA LOCATION - FLUSH MOUNTED
H100E	02-C-D2	02	1	CLOCK LOCATION - SURFACE MOUNTED
H100E	02-C-D3	02	1	DATA LOCATION - FLUSH MOUNTED
H100F	02-C-D4	02	1	CLOCK LOCATION - SURFACE MOUNTED
H100F	02-C-D5	02	1	MONITOR LOCATION - SURFACE MOUNTED
H100G	02-C-D6	02	1	CLOCK LOCATION - SURFACE MOUNTED
H100G	02-C-D7	02	1	DATA LOCATION - SURFACE MOUNTED
H102	02-C-D8	02	1	CLOCK LOCATION - SURFACE MOUNTED
H102	02-C-D9	02	1	WALL PHONE LOCATION - SURFACE MOUTNED
H104	02-C-D10	02	1	SHORT THROW PROJECTOR LOCATION
H104	02-C-D11	02	1	DATA LOCATION - SURFACE MOUNTED
H104	02-C-D12	02	1	WALL PHONE LOCATION - SURFACE MOUTNED
H104	02-C-D13	02	1	WIRELESS ACCESS POINT - CEILING MOUNTED
H104	02-C-D14	02	1	CLOCK LOCATION - SURFACE MOUNTED
H105	02-C-D15	02	1	CLOCK LOCATION - SURFACE MOUNTED
H105	02-C-D16	02	1	DATA LOCATION - SURFACE MOUNTED
V111	02-C-D17	02	1	SECURITY CAMERA - CEILING MOUNTED
V111	02-C-D18	02	1	VIDEO INTERCOM DOOR STATION
Grand total			117	

IDF 02 ACCESS CONTROL SCHEDULE

DOOR NUMBER	LABEL	TELECOM ROOM	COMMENTS
1183	1183-CR	02	EAC DOOR TYPE D3A
1287	1287-DPS	02	EAC DOOR TYPE D2A
EX-G101.2	EX-G101.2-DPS	02	EAC DOOR TYPE D1M
G106A	G106A-CR	02	EAC DOOR TYPE D3
GC100.1	GC100.1-CR	02	EAC DOOR TYPE D3AS
GC100.2	GC100.2-DPS	02	EAC DOOR TYPE D1M
GC101	GC101-DPS	02	EAC DOOR TYPE D1M

IDF 04 TECHNOLOGY SCHEDULE

ROOM NUMBER	LABEL	TELECOM ROOM	DATA PORTS	COMMENTS
A229E	04-B-D1	04	1	SECURITY CAMERA - CEILING MOUNTED
E101	04-B-D2	04	1	SECURITY CAMERA - CEILING MOUNTED
E101	04-B-D3	04	1	WIRELESS ACCESS POINT - CEILING MOUNTED
E101	04-B-D4	04	1	BAS DATA LOCATION
E101	04-B-D5	04	1	BAS DATA LOCATION
E101	04-B-D6	04	1	BAS DATA LOCATION
E101	04-B-D7	04	1	BAS DATA LOCATION
E106	04-B-D10	04	1	SECURITY CAMERA - CEILING MOUNTED
E108	04-B-D11	04	1	SECURITY CAMERA - CEILING MOUNTED
E108	04-B-D12	04	1	WIRELESS ACCESS POINT - CEILING MOUNTED
E110A	04-B-D8	04	1	BAS DATA LOCATION
E110B	04-B-D9	04	1	BAS DATA LOCATION
EXT	04-B-D13	04	1	SECURITY CAMERA - CEILING MOUNTED
Grand total			13	

IDF 07 TECHNOLOGY SCHEDULE

ROOM NUMBER	LABEL	TELECOM ROOM	DATA PORTS	COMMENTS
A200	07-J-D1	07	1	DATA LOCATION - SURFACE MOUNTED
A200	07-J-D2	07	1	CLOCK LOCATION - SURFACE MOUNTED
A204	07-J-D3	07	1	DATA LOCATION - SURFACE MOUNTED
A204	07-J-D4	07	1	CLOCK LOCATION - SURFACE MOUNTED
A204	07-J-D5	07	1	MONITOR LOCATION - SURFACE MOUNTED
A207	07-J-D6	07	1	CLOCK LOCATION - SURFACE MOUNTED
A207	07-J-D7	07	1	DATA LOCATION - SURFACE MOUNTED
A207	07-J-D8	07	1	DATA LOCATION - SURFACE MOUNTED
A207	07-J-D9	07	1	WIRELESS ACCESS POINT - CEILING MOUNTED
A207	07-J-D10	07	1	SHORT THROW PROJECTOR LOCATION
A208	07-J-D11	07	1	DATA LOCATION - SURFACE MOUNTED
A208	07-J-D12	07	1	DATA LOCATION - SURFACE MOUNTED
A208	07-J-D13/D14	07	2	DATA LOCATION - SURFACE MOUNTED
A208	07-J-D15/D16	07	2	DATA LOCATION - SURFACE MOUNTED
A208	07-J-D17/D18	07	2	DATA LOCATION - SURFACE MOUNTED
A208	07-J-D19/D20	07	2	DATA LOCATION - SURFACE MOUNTED
A208	07-J-D21	07	1	DATA LOCATION - SURFACE MOUNTED
A208	07-J-D22	07	1	CLOCK LOCATION - SURFACE MOUNTED
A208	07-J-D23	07	1	WIRELESS ACCESS POINT - CEILING MOUNTED
A208	07-J-D24	07	1	MONITOR LOCATION - SURFACE MOUNTED
A209	07-J-D25	07	1	DATA LOCATION - SURFACE MOUNTED
A209	07-J-D26	07	1	DATA LOCATION - SURFACE MOUNTED
A209	07-J-D27	07	1	DATA LOCATION - SURFACE MOUNTED
A209	07-J-D28	07	1	DATA LOCATION - SURFACE MOUNTED
A209	07-J-D29	07	1	DATA LOCATION - SURFACE MOUNTED
A209	07-J-D30	07	1	CLOCK LOCATION - SURFACE MOUNTED
A209	07-J-D31	07	1	WIRELESS ACCESS POINT - CEILING MOUNTED
A209	07-J-D32	07	1	MONITOR LOCATION - SURFACE MOUNTED
A210	07-J-D33	07	1	DATA LOCATION - SURFACE MOUNTED
A210	07-J-D34	07	1	DATA LOCATION - SURFACE MOUNTED
A210	07-J-D35	07	1	DATA LOCATION - SURFACE MOUNTED
A210	07-J-D36	07	1	DATA LOCATION - SURFACE MOUNTED
A210	07-J-D37	07	1	DATA LOCATION - SURFACE MOUNTED
A210	07-J-D38	07	1	CLOCK LOCATION - SURFACE MOUNTED
A210	07-J-D39	07	1	WIRELESS ACCESS POINT - CEILING MOUNTED
A210	07-J-D40	07	1	MONITOR LOCATION - SURFACE MOUNTED
A211	07-J-D41	07	1	CLOCK LOCATION - SURFACE MOUNTED
A211	07-J-D42	07	1	WIRELESS ACCESS POINT - CEILING MOUNTED
A211	07-J-D43/D44/D45/D46	07	4	DATA LOCATION - SURFACE MOUNTED
A212	07-J-D47	07	1	DATA LOCATION - SURFACE MOUNTED
A212	07-J-D48	07	1	DATA LOCATION - SURFACE MOUNTED
A212	07-K-D1	07	1	DATA LOCATION - SURFACE MOUNTED
A212	07-K-D2	07	1	DATA LOCATION - SURFACE MOUNTED
A212	07-K-D3	07	1	DATA LOCATION - SURFACE MOUNTED
A212	07-K-D4	07	1	CLOCK LOCATION - SURFACE MOUNTED
A212	07-K-D5	07	1	WIRELESS ACCESS POINT - CEILING MOUNTED
A212	07-K-D6	07	1	MONITOR LOCATION - SURFACE MOUNTED
A213	07-K-D7	07	1	CLOCK LOCATION - SURFACE MOUNTED
A213	07-K-D8	07	1	SHORT THROW PROJECTOR LOCATION
A213	07-K-D9	07	1	DATA LOCATION - SURFACE MOUNTED
A213	07-K-D10	07	1	WALL PHONE LOCATION - SURFACE MOUTNED
A213	07-K-D11	07	1	WIRELESS ACCESS POINT - CEILING MOUNTED
A214	07-K-D12	07	1	BAS DATA LOCATION
A215	07-K-D13	07	1	WIRELESS ACCESS POINT - CEILING MOUNTED
A215	07-K-D14	07	1	CLOCK LOCATION - SURFACE MOUNTED
A215	07-K-D15	07	1	SHORT THROW PROJECTOR LOCATION
A215	07-K-D16	07	1	DATA LOCATION - SURFACE MOUNTED
A215	07-K-D17	07	1	WALL PHONE LOCATION - SURFACE MOUTNED
A215	07-K-D18	07	1	CLOCK LOCATION - SURFACE MOUNTED
A215	07-K-D19	07	1	SHORT THROW PROJECTOR LOCATION
A215	07-K-D20	07	1	WIRELESS ACCESS POINT - CEILING MOUNTED
A215	07-K-D21	07	1	DATA LOCATION - SURFACE MOUNTED
A215	07-K-D22	07	1	WALL PHONE LOCATION - SURFACE MOUTNED
A219	07-K-D23	07	1	CLOCK LOCATION - SURFACE MOUNTED
A219	07-K-D24	07	1	SHORT THROW PROJECTOR LOCATION
A219	07-K-D25	07	1	WIRELESS ACCESS POINT - CEILING MOUNTED
A219	07-K-D26	07	1	DATA LOCATION - SURFACE MOUNTED
A219	07-K-D27	07	1	WALL PHONE LOCATION - SURFACE MOUTNED
A220	07-K-D28	07	1	BAS DATA LOCATION
A224	07-K-D29	07	1	CLOCK LOCATION - SURFACE MOUNTED
A224	07-K-D30	07	1	SHORT THROW PROJECTOR LOCATION
A224	07-K-D31	07	1	WIRELESS ACCESS POINT - CEILING MOUNTED
A224	07-K-D32	07	1	DATA LOCATION - SURFACE MOUNTED
A224	07-K-D33	07	1	WALL PHONE LOCATION - SURFACE MOUTNED
A225	07-K-D34	07	1	WIRELESS ACCESS POINT - CEILING MOUNTED
A225	07-K-D35	07	1	CLOCK LOCATION - SURFACE MOUNTED
A225	07-K-D36	07	1	SHORT THROW PROJECTOR LOCATION
A225	07-K-D37	07	1	DATA LOCATION - SURFACE MOUNTED
A225	07-K-D38	07	1	WALL PHONE LOCATION - SURFACE MOUTNED
A226	07-K-D39	07	1	CLOCK LOCATION - SURFACE MOUNTED
A226	07-K-D40	07	1	SHORT THROW PROJECTOR LOCATION
A226	07-K-D41	07	1	WIRELESS ACCESS POINT - CEILING MOUNTED
A226	07-K-D42	07	1	DATA LOCATION - SURFACE MOUNTED
A226	07-K-D43	07	1	WALL PHONE LOCATION - SURFACE MOUTNED
A227	07-K-D44	07	1	WIRELESS ACCESS POINT - CEILING MOUNTED
A227	07-K-D45	07	1	CLOCK LOCATION - SURFACE MOUNTED
A227	07-K-D46	07	1	SHORT THROW PROJECTOR LOCATION
A227	07-K-D47	07	1	DATA LOCATION - SURFACE MOUNTED
A227	07-K-D48	07	1	WALL PHONE LOCATION - SURFACE MOUTNED
A228	07-L-D1	07	1	CLOCK LOCATION - SURFACE MOUNTED
A228	07-L-D2	07	1	SHORT THROW PROJECTOR LOCATION
A228	07-L-D3	07	1	WIRELESS ACCESS POINT - CEILING MOUNTED
A228	07-L-D4	07	1	DATA LOCATION - SURFACE MOUNTED
A228	07-L-D5	07	1	WALL PHONE LOCATION - SURFACE MOUTNED
A229	07-L-D6	07	1	CLOCK LOCATION - SURFACE MOUNTED
A229	07-L-D7	07	1	DATA LOCATION - SURFACE MOUNTED
A229	07-L-D8	07	1	DATA LOCATION - SURFACE MOUNTED
A229	07-L-D9	07	1	DATA LOCATION - SURFACE MOUNTED
A229	07-L-D10	07	1	DATA LOCATION - SURFACE MOUNTED
A229	07-L-D11	07	1	DATA LOCATION - SURFACE MOUNTED
A229	07-L-D12	07	1	DATA LOCATION - SURFACE MOUNTED
A229	07-L-D13	07	1	DATA LOCATION - SURFACE MOUNTED
EXT	07-L-D14	07	1	SECURITY CAMERA - WALL MOUNTED 6" BELOW TOP OF BRICK
EXT	07-L-D15	07	1	SECURITY CAMERA - WALL MOUNTED 6" BELOW TOP OF BRICK
S200	07-L-D16	07	1	SECURITY CAMERA - CEILING MOUNTED
S200	07-L-D17	07	1	SECURITY CAMERA - CEILING MOUNTED
S200	07-L-D18	07	1	SECURITY CAMERA - CEILING MOUNTED
S200	07-L-D19	07	1	SECURITY CAMERA - CEILING MOUNTED
S200	07-L-D20	07	1	SECURITY CAMERA - CEILING MOUNTED
S200	07-L-D21	07	1	DUAL SIDE CLOCK - SURFACE MOUNTED
S200	07-L-D22	07	1	DUAL SIDE CLOCK - SURFACE MOUNTED
Grand total			118	

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KEY PLAN

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