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CONTRACTOR
TAYLOR BROS. CONSTRUCTION CO., INC.
4555 MIDDLE RD.
COLUMBUS, IN 47203

PROJECT

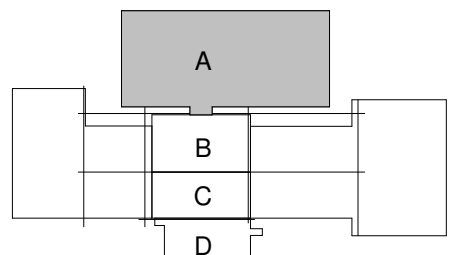
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City of Columbus

123 WASHINGTON ST.
COLUMBUS, IN 47201

KEYPLAN



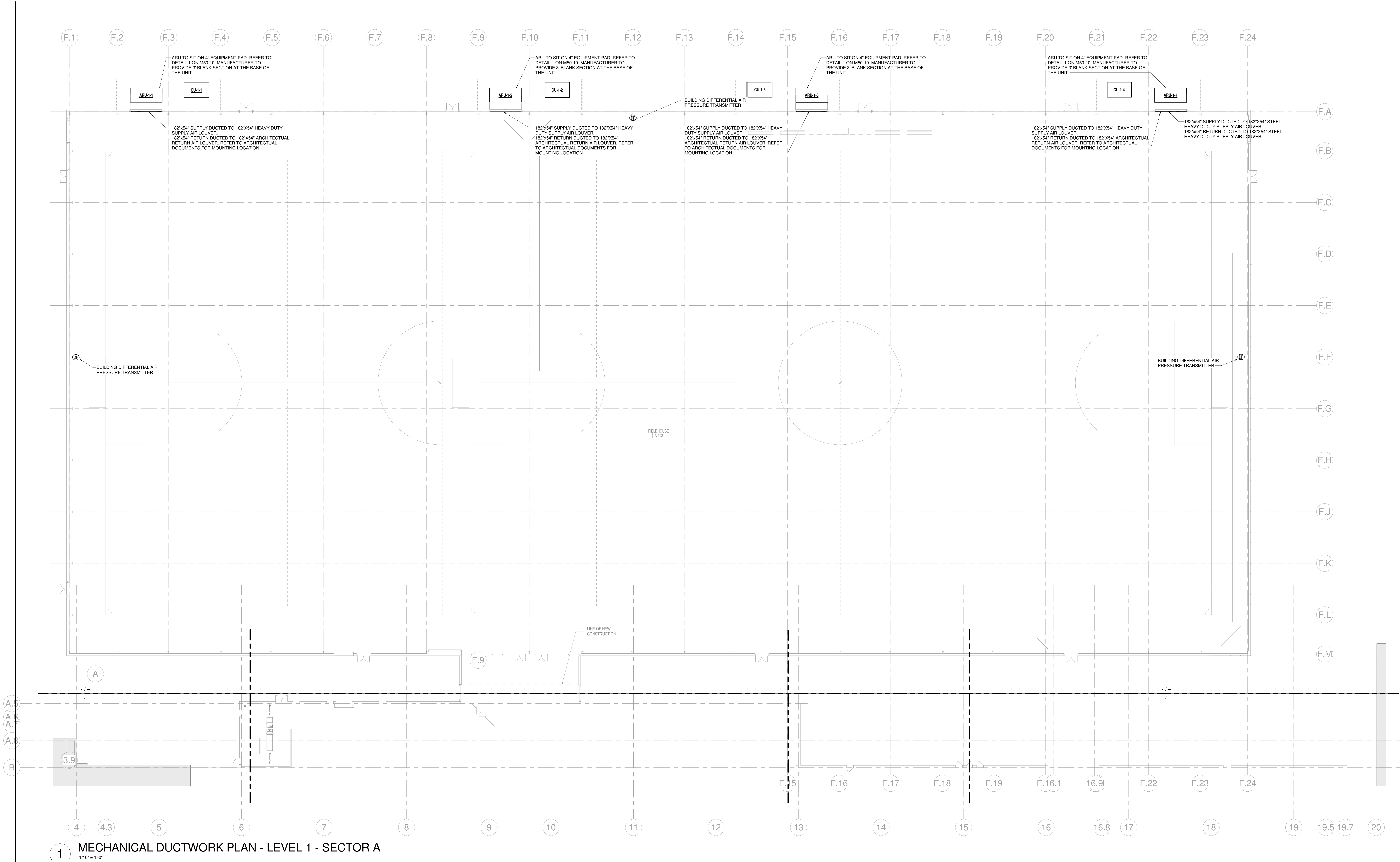
ISSUE CHART

ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

RENOVATION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	CONNECT TO EXISTING AT THIS POINT

1 FOR PROPOSAL - ENABLING & PHASE 1A 3/18/2022
SHEET 1 OF 1
Job Number 023650.000
TITLE
MECHANICAL - LEVEL
01 - SECTOR A -
PHASE 1A -
DUCTWORK PLAN
SHEET NUMBER

M11-11



1 MECHANICAL DUCTWORK PLAN - LEVEL 1 - SECTOR A
1/16" = 1'-0"

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and unforgettable.

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ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022



RENOVATION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	CONNECT TO EXISTING AT THIS POINT

FOR PROPOSAL - ENABLING & PH. 1A		3/18/2022
PKI	ISSUE	DATE

Job Number 023650.000

TITLE

MECHANICAL - LEVEL

01 - SECTOR B -

PHASE 1B -

DUCTWORK PLAN

SHEET NUMBER

M11-22

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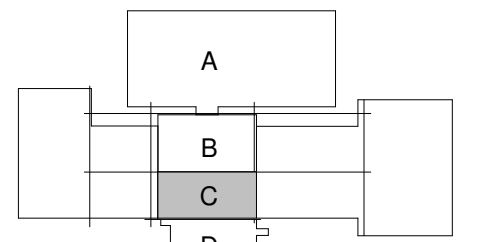
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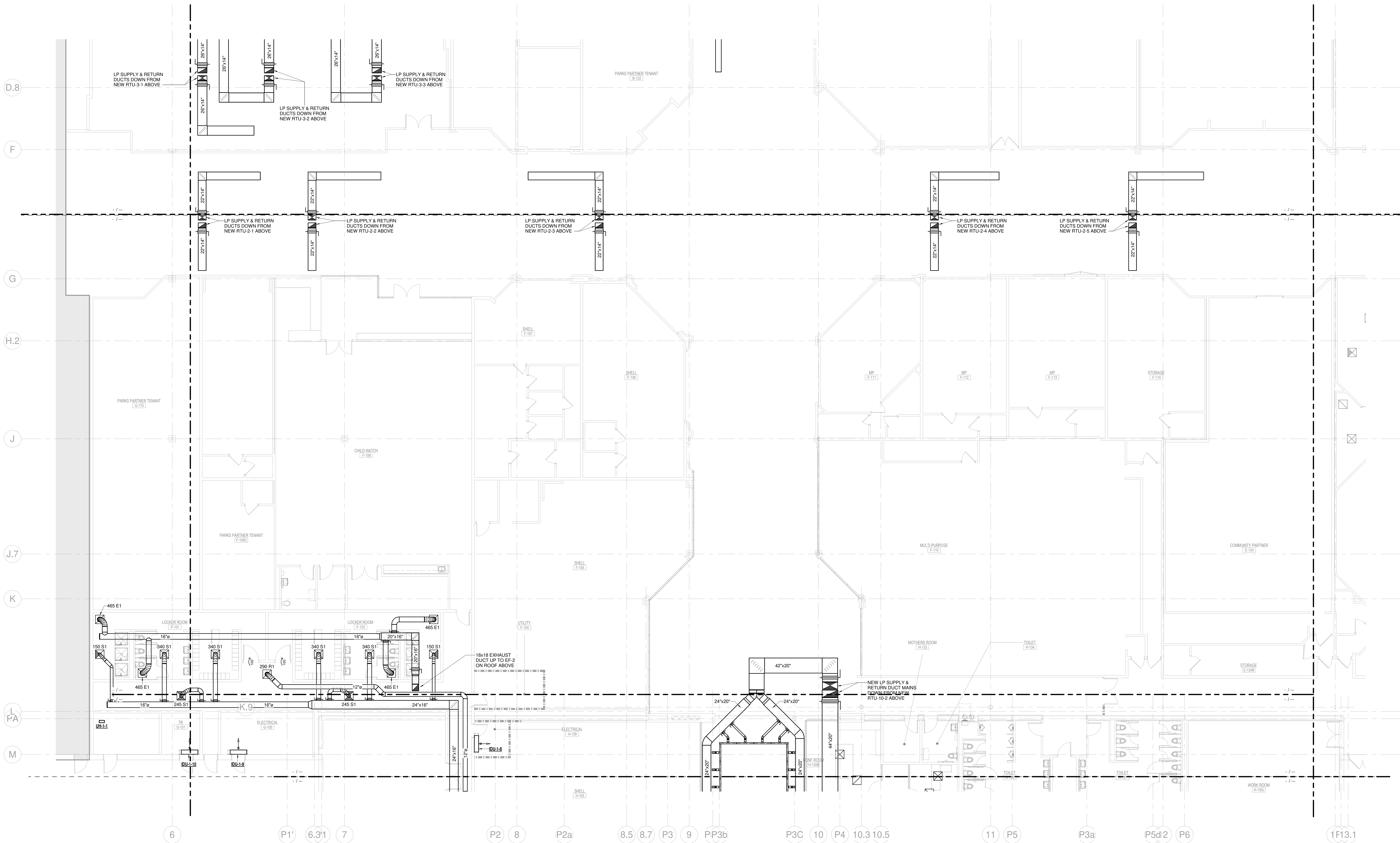
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KEY PLAN



ISSUE CHART

ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022



1 MECHANICAL DUCTWORK PLAN - LEVEL 1 - SECTOR C
1/8" = 1'-0"

RENOVATION LEGEND	
SYMBOL	DESCRIPTION
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	NEW CONSTRUCTION
	CONNECT TO EXISTING AT THIS POINT

1 FOR PROPOSAL - ENABLING & PHASE 1A 3/18/2022
SHEET 0001
Job Number 023650.000
TITLE
MECHANICAL - LEVEL
01 - SECTOR C -
PHASE 1B -
DUCTWORK PLAN
SHEET NUMBER

M11-23

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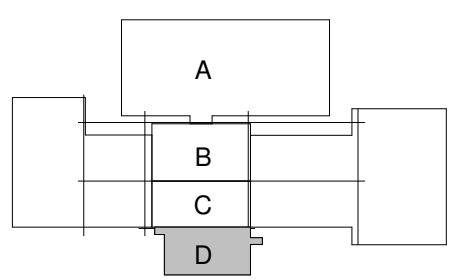
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ISSUE CHART

ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

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1 FOR PROPOSAL - ENABLING & PHASE 1A 3/18/2022
SHEET 000001 OF 0001
Job Number 023650.000
TITLE
MECHANICAL - LEVEL
01 - SECTOR D -
PHASE 1B -
DUCTWORK PLAN
SHEET NUMBER

M11-24

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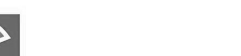
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KEYPLAN

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D

ISSUE CHART

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1/32" = 1'-0"

RENOVATION LEGEND	
SYMBOL	DESCRIPTION
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1	FOR PROPOSAL - ENABLING & PH. 1A	3/18/2022
MARK	ISSUE	DATE

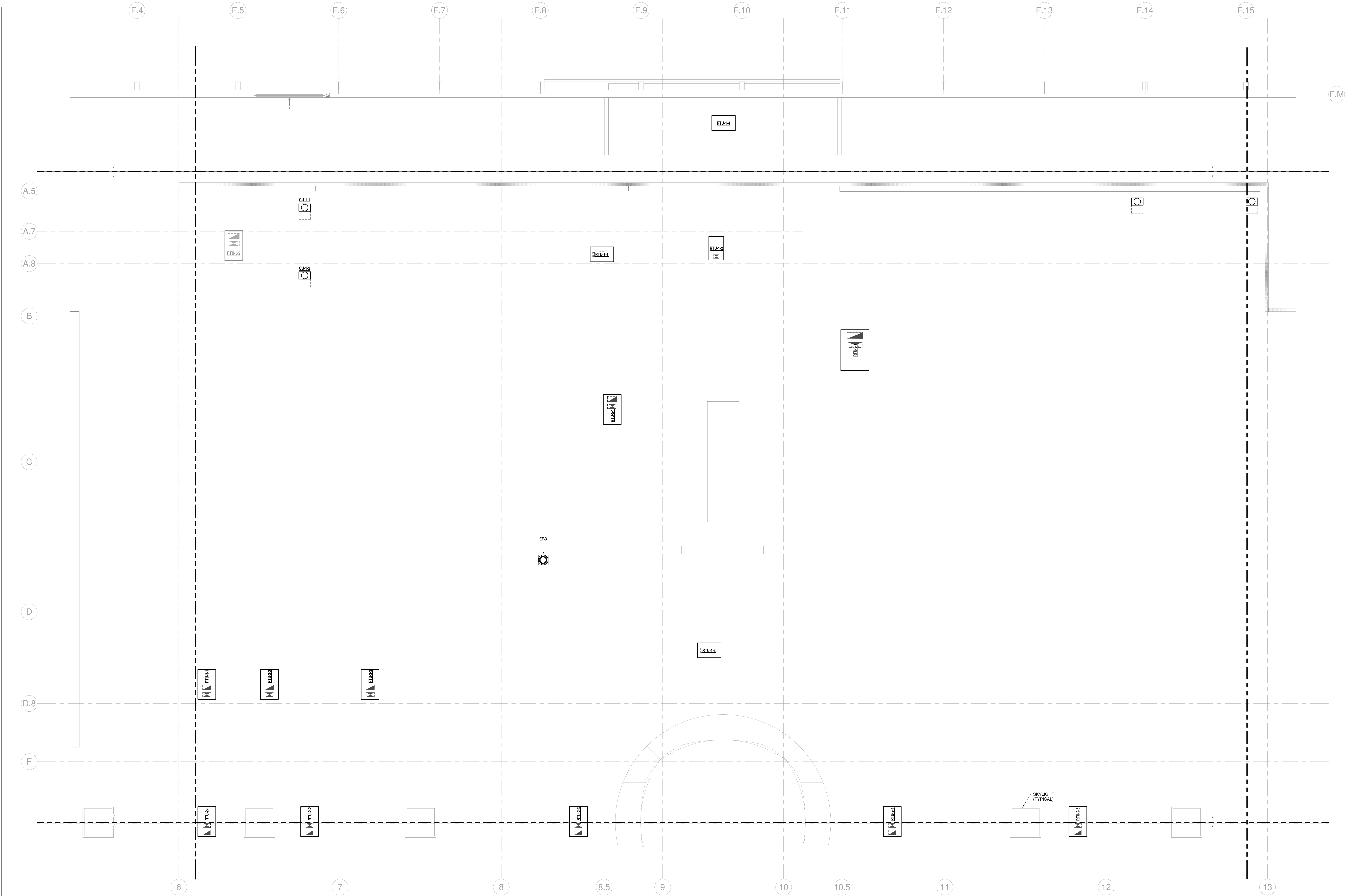
Job Number 023650.000

MECHANICAL - ROOF -
OVERALL - PHASE 1B -
DUCTWORK PLAN

SHEET NUMBER

12-20

3/18/2022 11:15:52 AM Autodesk Docs/Columbus - New/Perkins&Will MEP - M12-22-2022.rvt



1 MECHANICAL DUCTWORK PLAN - ROOF - SECTOR B
1/8" = 1'-0"

RENOVATION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
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Perkins&Will

The Wrigley Building
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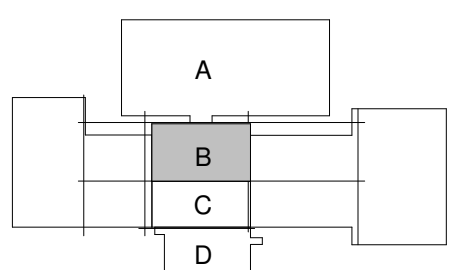
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City of Columbus

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KEYPLAN



ISSUE CHART

ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

1 FOR PROPOSAL - ENABLING & PHASE 1A 3/18/2022
ISSUE 0000 1A/1C

Job Number 023650.000
TITLE

MECHANICAL - ROOF -
SECTOR B - PHASE 1B
- DUCTWORK PLAN

SHEET NUMBER

M12-22

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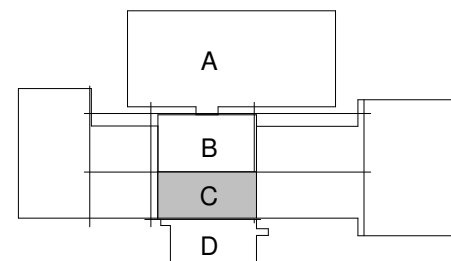
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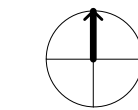
City of Columbus

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KEYPLAN



ISSUE CHART



ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

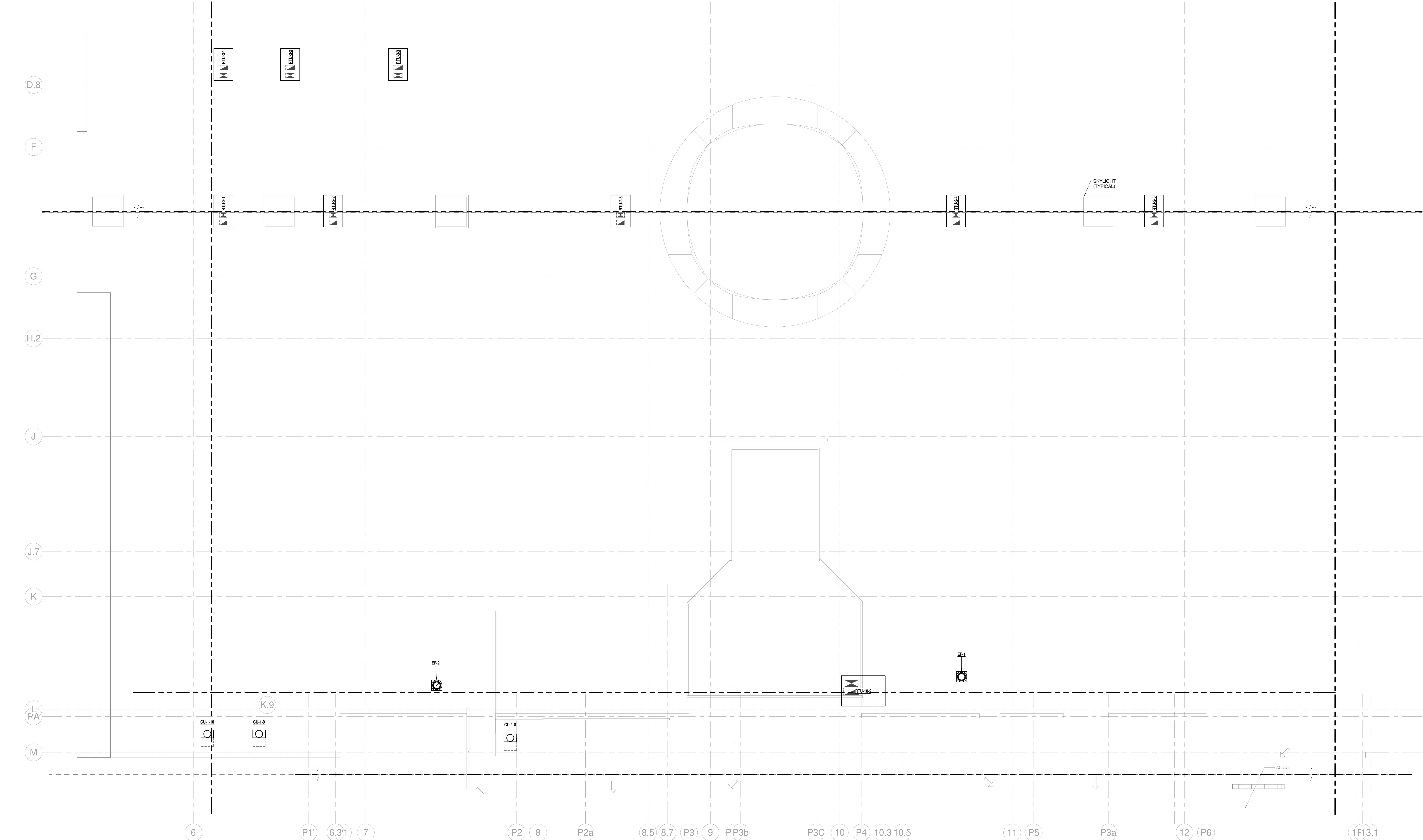
RENOVATION LEGEND	
SYMBOL	DESCRIPTION
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	NEW CONSTRUCTION
	CONNECT TO EXISTING AT THIS POINT

1	FOR PROPOSAL - ENABLING & PHASE 1A	3/18/2022
ISSUE	DATE	
Job Number	023650.000	TITLE

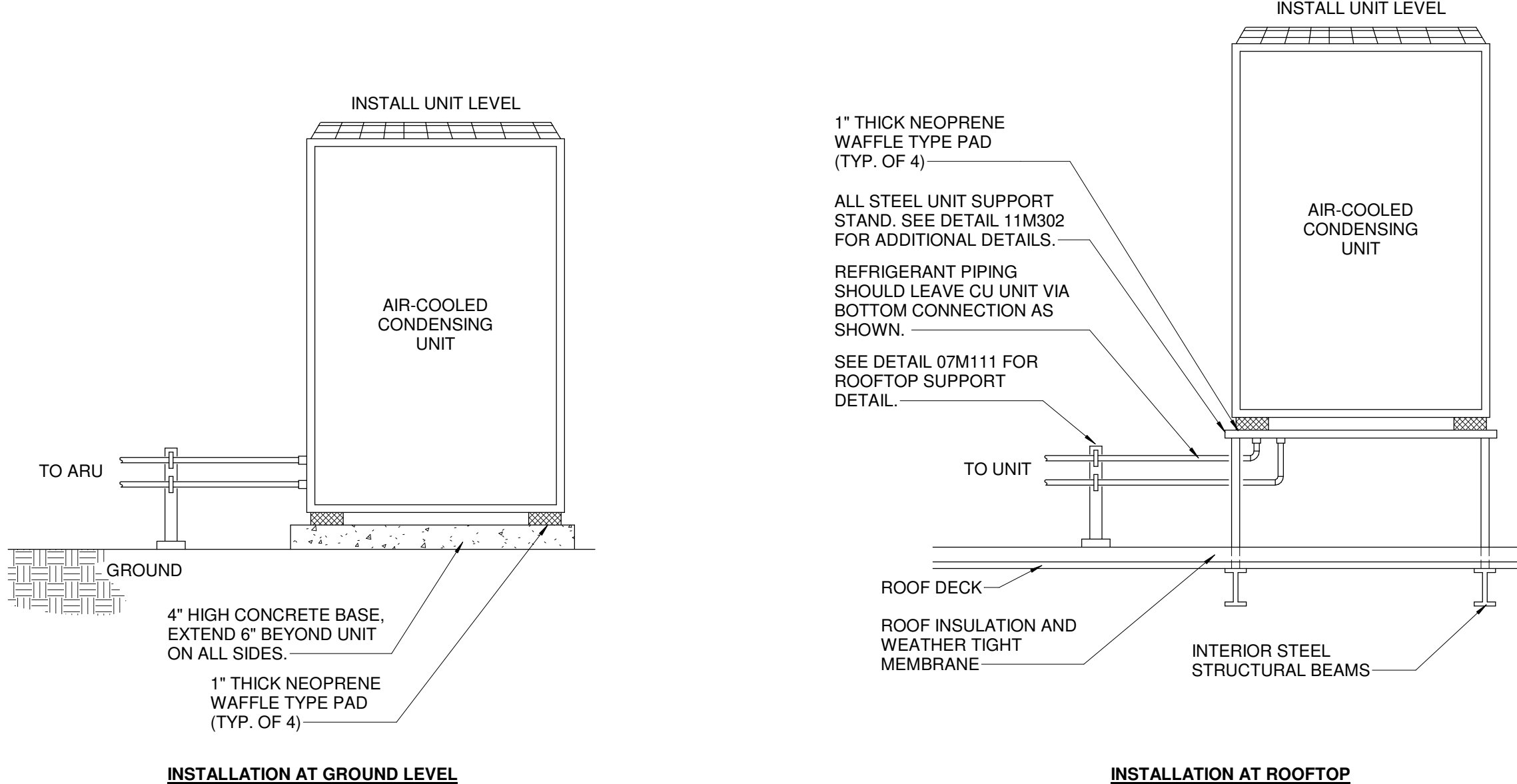
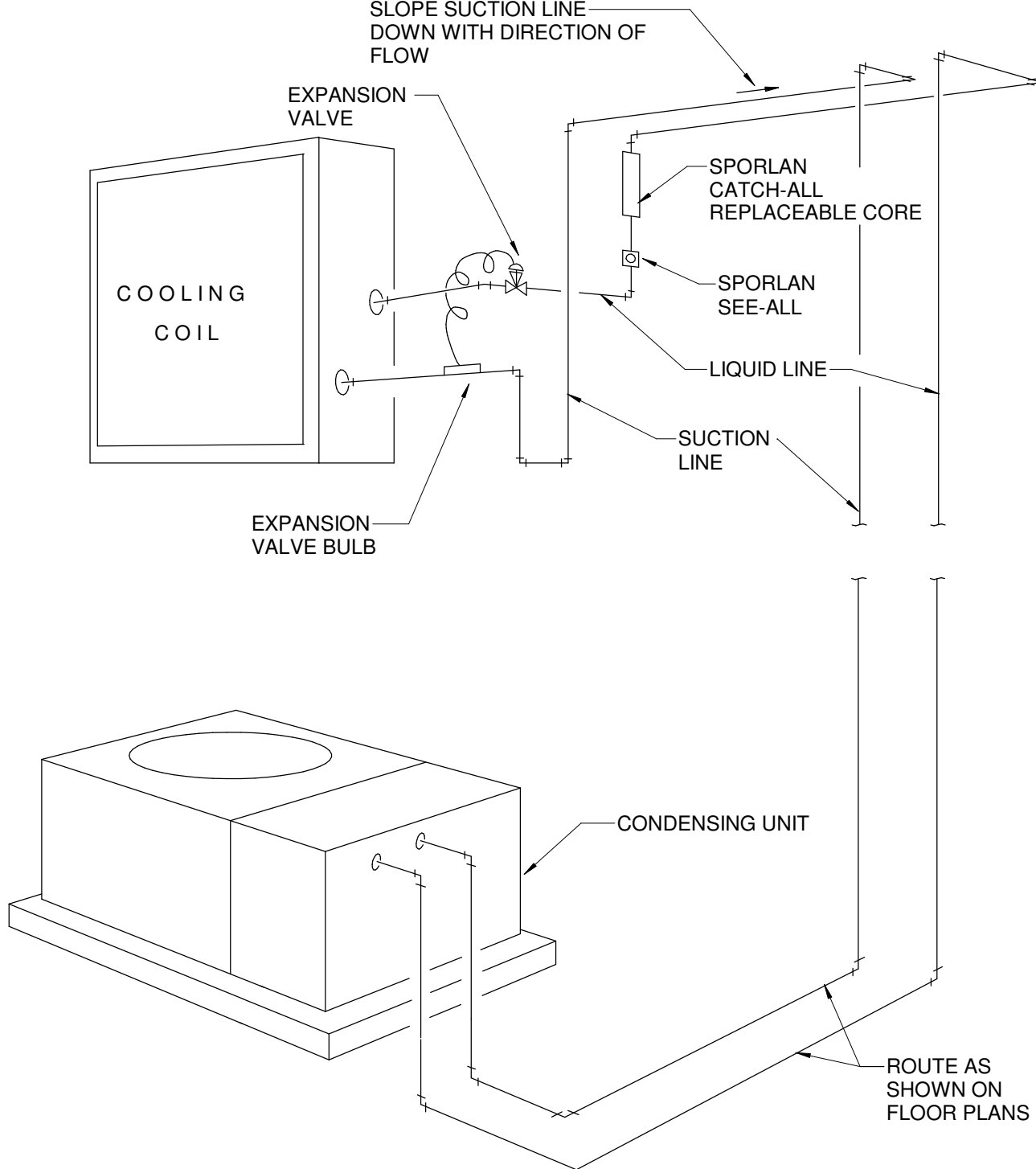
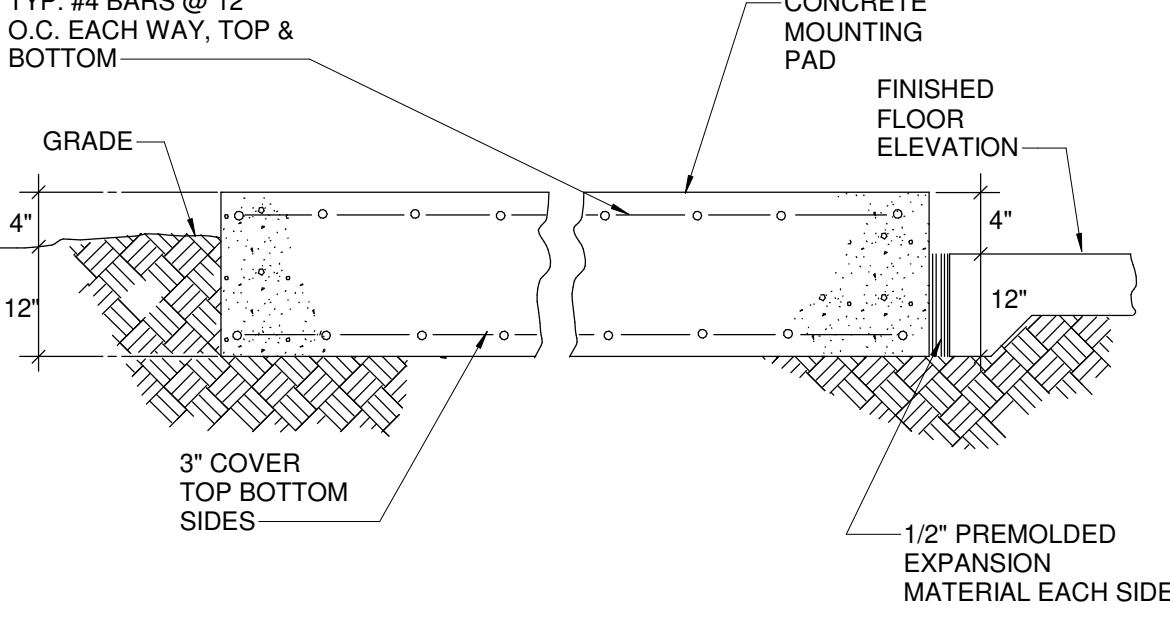
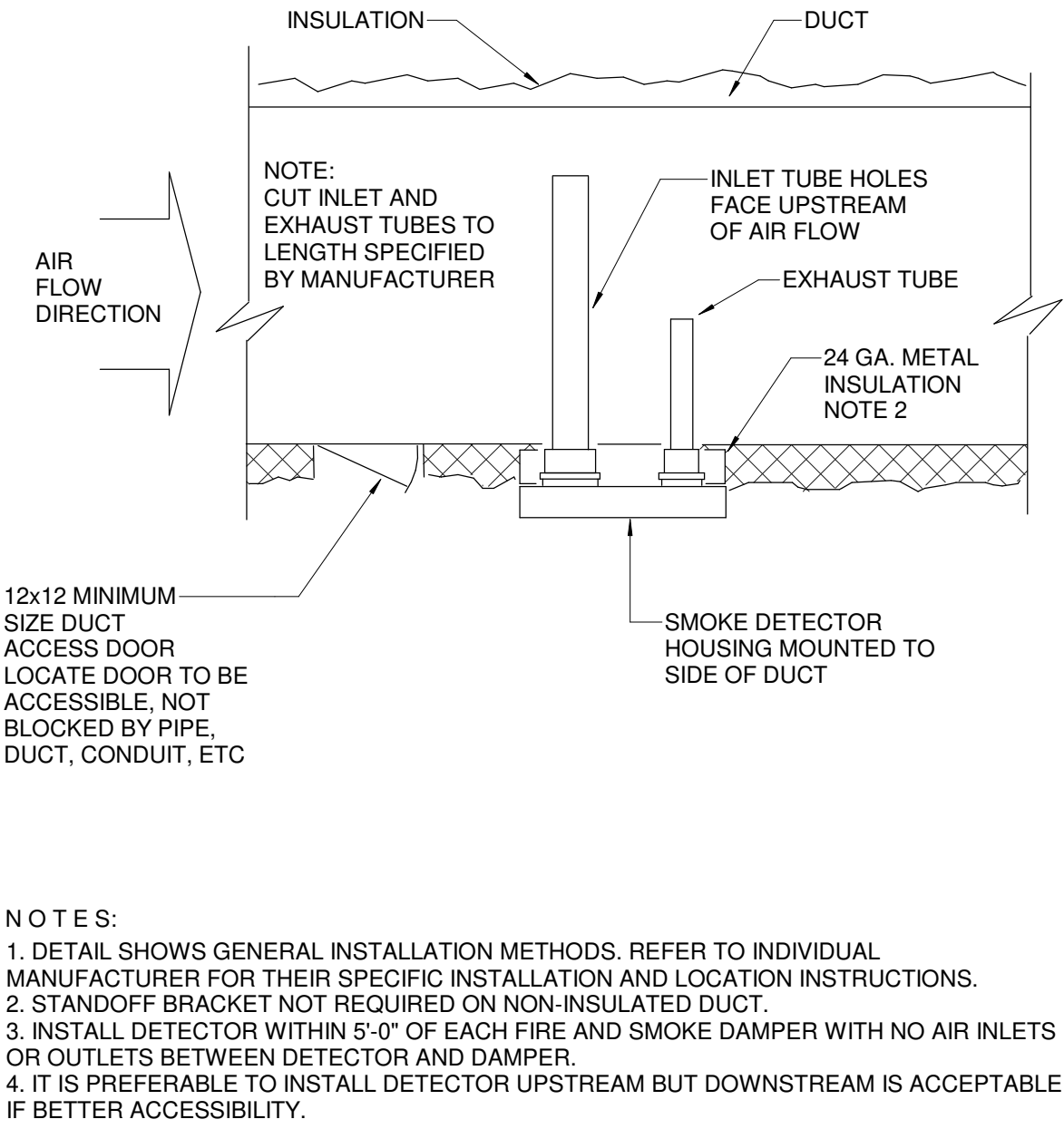
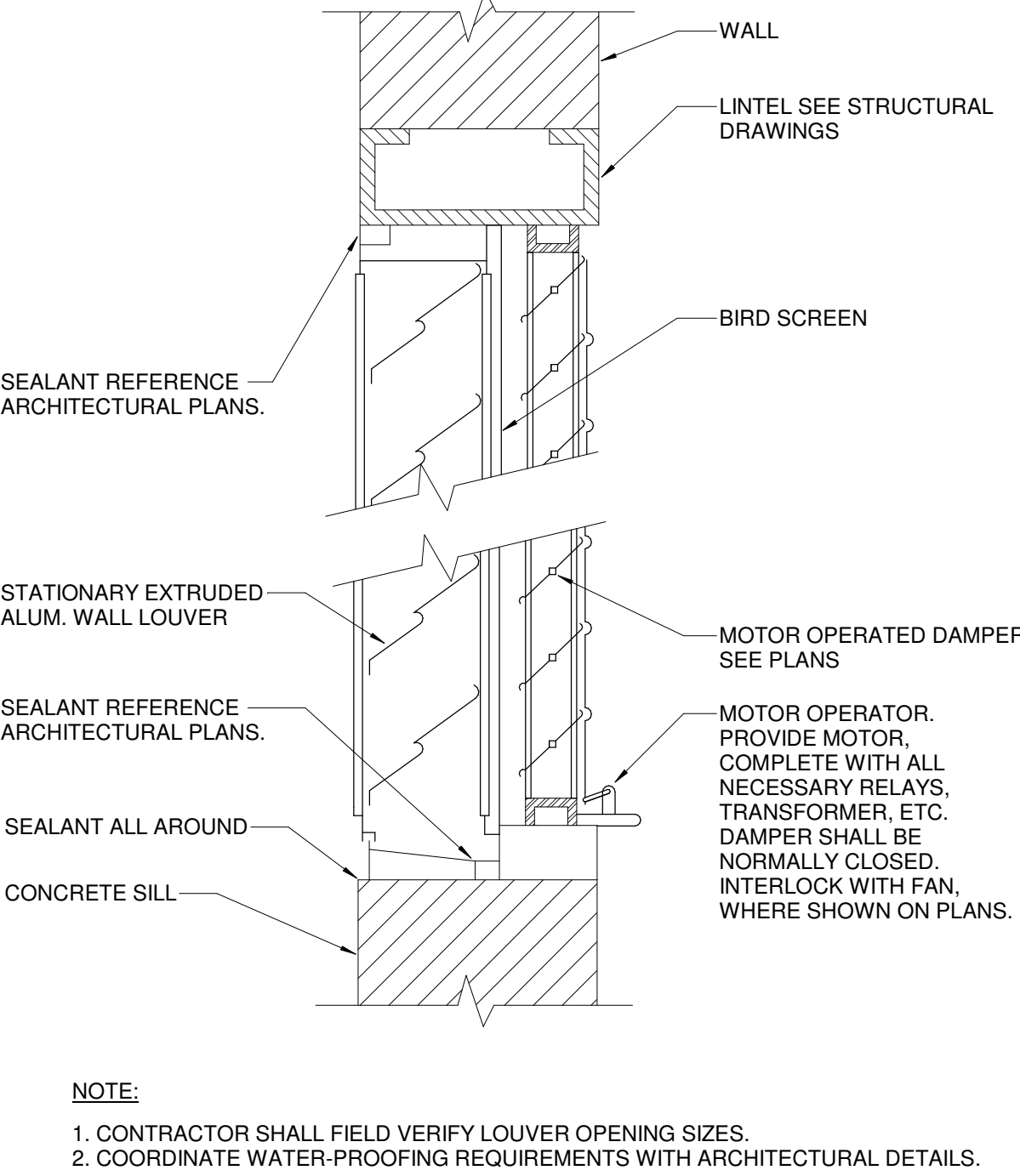
MECHANICAL - ROOF -
SECTOR C - PHASE 1B
- DUCTWORK PLAN

SHEET NUMBER

M12-23



1 MECHANICAL DUCTWORK PLAN - ROOF - SECTOR C
1/8" = 1'-0"

						11M105	
REFRIGERATION PIPING SCHEMATIC		3	REFRIGERANT PIPING SPLIT SYSTEM	2	EQUIPMENT MOUNTING PAD	1	
				5			
DUCT MOUNTED SMOKE DETECTOR		6	WALL LOUVER AND DAMPER				

	09M205	9		11M201	6		11M203	3	
DUCTWORK CONNECTION TO RETURN / EXHAUST GRILLE (FLEX DUCT)			DUCTWORK CONNECTION TO SUPPLY DIFFUSER (FLEX DUCT)			DUCT MOUNTED HUMIDIFIER		POWER ROOF EXHAUSTER (P.R.E.) MOUNTING	
	09M202	8		09M115	5		08M105	2	
DUCTWORK CONNECTION TO SUPPLY DIFFUSER (FLEX DUCT)			LOW PRESSURE DUCT VOLUME DAMPER REQUIREMENTS			ELECTRIC HUMIDIFIER PIPING		ROOFTOP A/C UNIT	
	09M502	7		01M309	4		09M101	1	
LOW PRESSURE DUCT VOLUME DAMPER REQUIREMENTS									

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ISSUE CHART

ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

1	FOR PROPOSAL - ENABLING & PHASE 1A	3/18/2022
SHEET	18-05	TITLE
Job Number	023650.000	TITLE

MECHANICAL - PHASE
1B - DETAILS

SHEET NUMBER

M50-20

SEQUENCE OF OPERATION

GENERAL NOTE: ALL SETPOINTS AND TIME DURATIONS SHALL BE USER ADJUSTABLE.

SUPPLY AND RETURN FAN CONTROL

- SUPPLY FAN SHALL BE STARTED BY ANY OF THE FOLLOWING:
 - BAS COMMAND AUTOMATICALLY OR BY OPERATOR.
 - VFD "HAND" POSITION.

- SUPPLY FAN SHALL BE STOPPED BY ANY OF THE FOLLOWING:
 - BAS COMMAND AUTOMATICALLY OR BY OPERATOR.
 - VFD "HAND" POSITION.
 - HARDWIRED SAFETIES.
 - FIRE ALARM.

INTERLOCKED EXHAUST FANS SHALL START/STOP VIA HARDWARE INTERLOCK WITH SUPPLY FAN.

WHENEVER THE AHU IS DE-ENERGIZED:

- OUTSIDE AIR DAMPERS SHALL BE CLOSED.
- RELIEF DAMPER SHALL BE CLOSED.
- RETURN DAMPER SHALL BE OPEN.
- DX COOLING SHALL BE OFF.

- GAS REHEAT VALVE SHALL BE CLOSED.
- INTERLOCKED EXHAUST FANS SHALL BE OFF.
- DUCT MOUNTED SMOKE DAMPERS SHALL BE CLOSED.

WHENEVER THE AHU IS ENERGIZED, THE FOLLOWING SEQUENCE SHALL TAKE PLACE:

- OUTSIDE AIR DAMPER SHALL OPEN TO PREBALANCED POSITION.
- DUCT FIRE/SMOKE DAMPERS SHALL OPEN.
- WHEN OA AND FIRE/SMOKE DAMPERS ARE PROVEN OPEN VIA END SWITCHES, SUPPLY FAN AND INTERLOCKED RETURN FAN AND EXHAUST FANS SHALL START.
- RELIEF FAN SHALL BE SEQUENCED TO MAINTAIN PRESSURE OF THE SPACE.
- WHEN SUPPLY FAN START IS PROVEN, SUPPLY AIR TEMPERATURE CONTROL SHALL BE ENABLED.

BUILDING AUTOMATION SYSTEM INTERFACE:

THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED BYPASS, MORNING WARM UP/PRE-COOL, OCCUPIED/UNOCCUPIED AND HEAT/COOL MODES. THE BAS SHALL ALSO SEND THE DISCHARGE AIR TEMPERATURE SETPOINT AND THE DUCT STATIC PRESSURE SETPOINT. IF A BAS IS NOT PRESENT, OR COMMUNICATION IS LOST WITH THE BAS THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND SETPOINTS.

OPTIMAL START:

THE BAS SHALL MONITOR THE SCHEDULED OCCUPIED TIME, OCCUPIED SPACE SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL START OCCURS.

MORNING WARM-UP MODE:

DURING OPTIMAL START IF THE AVERAGE SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT A MORNING WARM UP MODE SHALL BE ACTIVATED. WHEN MORNING WARM UP IS INITIATED THE UNIT SHALL ENABLE THE HEATING AND SUPPLY FAN. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED. WHEN THE SPACE TEMPERATURE REACHES THE OCCUPIED HEATING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.

PRE-COOL MODE:

DURING OPTIMAL START, IF THE AVERAGE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT, PRE-COOL MODE SHALL BE ACTIVATED. WHEN PRE-COOL IS INITIATED THE UNIT SHALL ENABLE THE FAN AND COOLING. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED. WHEN THE SPACE TEMPERATURE REACHES OCCUPIED COOLING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.

OPTIMAL STOP:

THE BAS SHALL MONITOR THE SCHEDULED UNOCCUPIED TIME, OCCUPIED SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL STOP OCCURS. WHEN THE OPTIMAL STOP MODE IS ACTIVE THE UNIT CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE TO THE SPACE TEMPERATURE OFFSET SETPOINT. OUTSIDE AIR DAMPER SHALL REMAIN ENABLED TO PROVIDE MINIMUM VENTILATION.

HEAT/COOL MODE:

WHEN THE SPACE TEMPERATURE RISES ABOVE THE OCCUPIED COOLING SETPOINT THE MODE WILL TRANSITION TO COOLING. WHEN THE SPACE TEMPERATURE FALLS BELOW THE OCCUPIED HEATING SETPOINT THE MODE WILL TRANSITION TO HEATING. WHEN THE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT OR BELOW THE OCCUPIED HEATING SETPOINT THE MODE WILL REMAIN IN ITS LAST STATE. IF THE LOCAL AND COMMUNICATED SETPOINTS FAIL, THE CONTROLLER WILL DISABLE THE SUPPLY FAN AND AN ALARM WILL BE ANNUNCIATED AT THE BAS.

SUPPLY AIR TEMPERATURE CONTROL

WHENEVER THE AHU IS RUNNING, THE FOLLOWING SHALL OCCUR:
THE OPERATOR WILL SELECT ONE OF THREE (3) PRESET OPERATIONAL MODES PRIOR TO STARTING THE UNIT OR SHALL HAVE THE CAPABILITY OF USING THE PREVIOUS SELECTION AS THE DEFAULT MODE. THE THREE (3) MODES ARE OCCUPIED, UNOCCUPIED AND OFF.

OCCUPIED MODE: (OUTSIDE AIR AND EXHAUST AIR FOR EVENT CONDITIONING):

- OUTSIDE AIR AND EXHAUST AIR SHALL OPEN TO PREBALANCED POSITION.
- ALL SMOKE DAMPERS AND FIRE/SMOKE DAMPERS SHALL OPEN.
- RETURN AIR DAMPER SHALL REMAIN CLOSED.
- ONCE ALL DAMPERS ARE POSITIONED AS SENSED BY END SWITCHES, A SIGNAL SHALL BE SENT TO AHU TO START IN THE OCCUPIED MODE.
- AHU SUPPLY AND RELIEF FANS SHALL BE ENERGIZED.
- ALL INTERLOCKED EXHAUST FANS SHALL BE ENERGIZED.

UNOCCUPIED MODE: (RECIRCULATION FOR NON EVENT CONDITIONING):

- OUTSIDE AIR AND EXHAUST AIR SHALL CLOSE.
- ALL SMOKE DAMPERS AND FIRE/SMOKE DAMPERS SHALL OPEN.
- RETURN AIR DAMPER SHALL OPEN FULLY.
- ONCE ALL DAMPERS ARE POSITIONED AS SENSED BY END SWITCHES, A SIGNAL SHALL BE SENT TO AHU TO START IN THE UNOCCUPIED MODE.
- AHU SUPPLY FAN SHALL BE ENERGIZED.
- ALL INTERLOCKED EXHAUST FANS SHALL BE DE-ENERGIZED.

INTERLOCKED EXHAUST FANS SHALL BE STARTED AS PER THE THREE (3) OPERATIONAL MODES. THE STATUS OF ALL EXHAUST FANS SHALL BE INDICATED AT THE OWS. IF INTERLOCKED EXHAUST FANS FAIL TO START AS INDICATED BY CURRENT SENSING RELAY, AN ALARM SHALL BE INDICATED TO THE BAS.

UNIT SHALL GO INTO ECONOMIZER MODE WHEN EITHER OF THE FOLLOWING CONDITIONS ARE TRUE FOR 10 MINUTES:

- T-OA IS LESS THAN T-CC.
 - OR,
 - OA ENTHALPY IS LESS THAN RETURN AIR ENTHALPY AND T-OA IS GREATER THAN T-CC AND OA RELATIVE HUMIDITY IS GREATER THAN 30%.
- OUTSIDE AIR DAMPER SHALL OPEN FULLY.
- RETURN DAMPER SHALL CLOSE.
 - DX COOLING COIL SHALL CONTINUE TO MODULATE TO MAINTAIN SUPPLY AIR TEMP T-SA SETPOINT.

AS T-SA BEGINS TO FALL BELOW SETPOINT:

- DX COOLING SHALL MODULATE TO BEGIN TO MATCH LOAD.
- DX COOLING SHALL BE OFF FULLY WHEN T-OA IS EQUAL OR LESS THAN T-SA SETPOINT.
- UPON CONTINUED FALL IN T-SA BELOW SETPOINT AND AFTER DX COOLING HAS BEEN OFF FULLY, MAXIMUM OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL BEGIN TO MODULATE CLOSED AND RETURN AIR DAMPER SHALL BEGIN TO MODULATE OPEN TO MAINTAIN T-SA SETPOINT.
- UPON CONTINUED RISE IN T-SA BELOW SETPOINT AND AFTER MAXIMUM OUTSIDE AIR AND RELIEF DAMPERS HAVE CLOSED FULLY, AND RETURN AIR DAMPER HAS OPENED FULLY, GAS REHEAT SHALL MODULATE TO MAINTAIN T-SA SETPOINT.

AS OUTSIDE AIR TEMPERATURE RISES AND T-SA RISES ABOVE SETPOINT:

- UPON A CONTINUED RISE IN T-SA ABOVE SETPOINT, MAXIMUM OUTSIDE AIR AND RELIEF DAMPERS SHALL BEGIN TO MODULATE OPEN AND RETURN DAMPER SHALL BEGIN TO MODULATE CLOSED TO MAINTAIN T-SA SETPOINT.
- UPON A CONTINUED RISE IN T-SA ABOVE SETPOINT, AND AFTER MAXIMUM OUTSIDE AIR AND RELIEF DAMPERS HAVE OPENED FULLY AND RETURN DAMPER HAS CLOSED FULLY, DX COOLING COIL SHALL MODULATE TO MAINTAIN T-SA SETPOINT.

UNIT SHALL GO INTO MECHANICAL COOLING MODE WHEN EITHER OF THE FOLLOWING CONDITIONS ARE TRUE FOR 5 MINUTES:

- OA ENTHALPY IS GREATER THAN RETURN AIR ENTHALPY.
 - OR,
 - T-OA IS GREATER THAN T-CC AND OA RELATIVE HUMIDITY IS LESS THAN 30%.
- OUTSIDE AIR DAMPER SHALL RETURN TO ITS PRE-BALANCED POSITION.
- RETURN DAMPER SHALL OPEN FULLY.
 - RELIEF AIR DAMPERS SHALL CLOSE.
 - DX COOLING COIL SHALL MODULATE TO MAINTAIN T-SA SETPOINT.

SPACE TEMPERATURE CONTROL

- THE SPACE RETURN AIR TEMPERATURE SHALL MODULATE SUPPLY FAN SPEED CONTROL AND REHEAT COIL SCR CONTROL IN SEQUENCE AS REQUIRED TO MAINTAIN THE SUPPLY AIR TEMPERATURE SETPOINT AS DEFINED PER THE BAS VALUE IN THE SIGNAL LEGEND.
- THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET UPWARD OR DOWNWARD BY A PID LOOP CONTROL.
- THE SUPPLY AIR RESET PID LOOP SHALL HAVE LOW LIMIT SETPOINT OF 55.0°F (ADJ.) AND HIGH LIMIT SETPOINT OF 95.0°F (ADJ.).
- BAS SHALL READ VELOCITY PRESSURE AT SUPPLY FAN AND CALCULATE AIRFLOW.
- IF SUPPLY FAN SPEED CANNOT SATISFY SPACE TEMPERATURE SETPOINT, THEN COOLING AND/OR HEATING SHALL BE AUTOMATICALLY MODULATED BASED ON SUPPLY AIR.

TEMPERATURE RESET CONTROL

- THE SUPPLY AIR TEMPERATURE SENSOR SHALL MODULATE THE COOLING COIL CONTROL VALVE, AND REHEAT COIL SCR CONTROL IN SEQUENCE AS REQUIRED TO MAINTAIN THE SUPPLY AIR TEMPERATURE SETPOINT AS DEFINED PER THE BAS VALUE IN THE SIGNAL LEGEND.
- THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET UPWARD OR DOWNWARD BY A PID LOOP CONTROL.
- THE SUPPLY AIR RESET PID LOOP SHALL HAVE LOW LIMIT SETPOINT OF 55.0°F (ADJ.) AND HIGH LIMIT SETPOINT OF 95.0°F (ADJ.).
- BAS SHALL READ VELOCITY PRESSURE AT SUPPLY FAN AND CALCULATE AIRFLOW.
- IF SUPPLY DUCT STATIC PRESSURE SP-HL EXCEEDS HIGH LIMIT, AHU SHALL STOP AND SEND ALARM SIGNAL.
- IF RETURN DUCT STATIC PRESSURE SP-L FALLS BELOW LOW LIMIT, AHU SHALL STOP AND SEND ALARM SIGNAL.

OUTSIDE AIRFLOW CONTROL

A FIXED AIRFLOW (CFM) SHALL BE ASSIGNED TO EACH EXHAUST FAN ASSOCIATED WITH THE AHU SYSTEM. MINIMUM OUTSIDE AIRFLOW SETPOINT SHALL BE EQUAL TO THE SUM OF INTERLOCKED EXHAUST FAN AIRFLOWS PLUS PRESSURIZATION AIRFLOW SETPOINT OF 5,000 CFM (ADJ.).

MAXIMUM OUTSIDE AIRFLOW SETPOINT SHALL BE AS SCHEDULED PER THE AIR HANDLING UNIT SCHEDULE.

OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN THE MINIMUM OUTSIDE AIR SETPOINT AS SENSED PER THE OUTSIDE AIRFLOW MEASURING STATION. WHEN IN AIRSIDE ECONOMIZER MODE FOR FREE COOLING, OUTSIDE AIR, RETURN, AND RELIEF AIR DAMPERS SHALL MODULATE AS DESCRIBED ABOVE WITHOUT FALLING BELOW THE MINIMUM OA SETPOINT.

PROVIDE DEMAND CONTROL VENTILATION (DCV) BASED ON RETURN CO2 CONCENTRATIONS AS SENSED BY THE CO2 SENSOR LOCATED IN THE COMMON RETURN DUCT. DEMAND CONTROL VENTILATION SHALL RESET OUTSIDE AIRFLOW SETPOINT AT AHU UPWARD TO A MAXIMUM OUTSIDE AIRFLOW TO MAINTAIN CO2 CONCENTRATIONS AT 1,300 PPM (ADJ.) GREATER THAN SUPPLY CO2 CONCENTRATION. IF CO2 IS ABOVE SETPOINT, OUTSIDE AIRFLOW SHALL INCREASE TO MAINTAIN CO2 AT SETPOINT. IF CO2 IS BELOW SETPOINT, OUTSIDE AIRFLOW SHALL BE RESET DOWNWARD WITHOUT FALLING BELOW THE MINIMUM AIRFLOW. SETTINGS AS DESCRIBED ABOVE. ONCE THE OUTSIDE AIRFLOW SETPOINT IS RESET, THE OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN THIS SETPOINT AS MEASURED BY THE OUTSIDE AIRFLOW MEASURING STATION. THE ACTUAL OUTSIDE AIRFLOW MEASURED SHALL BE AVAILABLE AT THE BAS. THE CO2 SENSOR SHALL BE SET TO INDICATE A HIGH LEVEL ALARM AT LEVELS 10% (ADJ.) ABOVE THE 1,300 PPM DIFFERENTIAL. GRAPHIC DISPLAY SHALL INDICATE BOTH THE HIGH LEVEL ALARM STATUS AND THE CARBON DIOXIDE LEVEL IN PPM.

FILTERS

BAS SHALL MONITOR DIFFERENTIAL PRESSURE ACROSS FILTER BANKS AND INITIATE AN ALARM IF PRESSURE DROP EXCEEDS HIGH LIMIT SETPOINTS.

AHU RESPONSE TO FIRE ALARM

UPON ACTIVATION OF ANY FIRE ALARM DEVICE OTHER THAN PULL STATIONS:
THE FIRE ALARM SYSTEM SHALL HARDWIRE STOP THE SUPPLY FAN AND INTERLOCKED EXHAUST FANS.
FIRE/SMOKE DAMPERS WILL BE CLOSED BY THE FIRE ALARM SYSTEM.

HVAC CONTROL SIGNAL LEGEND - VAV AHU NO AIRSIDE ECONOMIZER

SIGNAL LEGEND IS A DESCRIPTION OF POINTS AND NOT A QUANTITATIVE POINTS LIST. CONTRACTOR SHALL DEVELOP POINTS LIST BASED ON SCOPE OF PROJECT.

ACTION: "A"= ANALOG/MODULATING; "B"= BINARY/TWO POSITION.

ALL POINTS LISTED IN "BAS VALUE" OR "BAS ALARM" SHALL BE SHOWN ON GRAPHICAL DISPLAY.

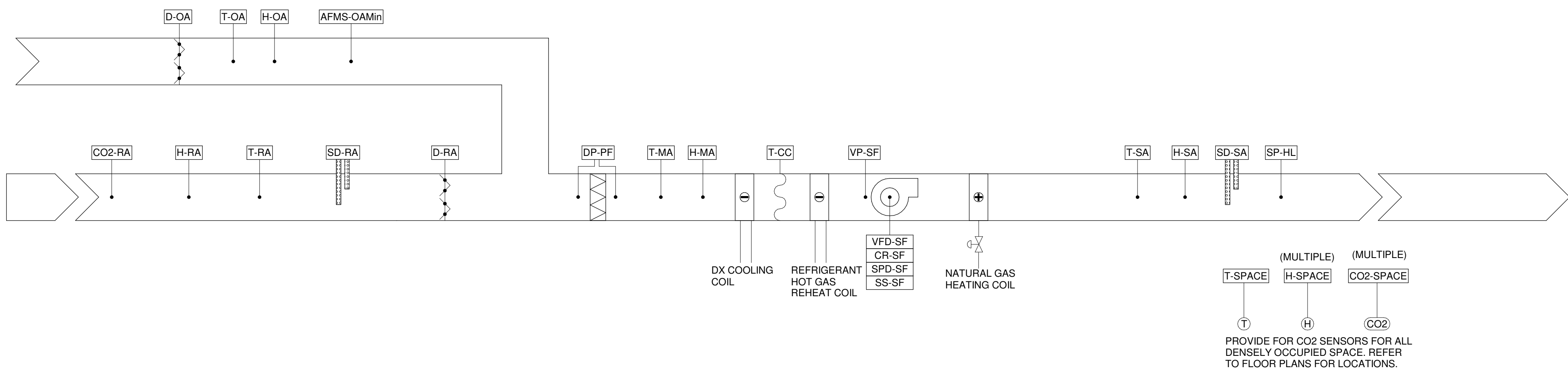
ALL ANALOG POINTS SHALL BE TRENDED. SEE TRENDED REQUIREMENTS FOR MORE INFORMATION.

ALL DAMPERS AND VALVES SHALL BE ALE TO ACCEPT MANUAL OVERRIDE OF POSITION VIA GRAPHICAL DISPLAY.

ALL SETPOINTS, TIME DURATIONS AND ALARM VALUES SHALL BE ADJUSTABLE VIA GRAPHIC DISPLAY.

TAG	DEVICE	ACTION	FAIL POSITION	BAS VALUE	BAS ALARM	DIRECT CONTROL BY FIRE ALARM	NOTES
AFMS-OAMH	AIRFLOW MEASURING STATION - MIN OUTSIDE AIR	A		CFM			THERMAL DISPERSION AIR FLOW MEASUREMENT
CO2-RA	CO2 RETURN AIR	A		PPM			
CO2-SPACE	CARBON DIOXIDE LEVEL	A		PPM			
CR-PHP	CURRENT RELAY - PREHEAT PUMP	B		ON/OFF	MOTOR FAILURE		ALARM IF MOTOR STATUS NOT EQUAL TO COMMAND
CR-SF	CURRENT RELAY - SUPPLY FAN	B		ON/OFF	MOTOR FAILURE		ALARM IF MOTOR STATUS NOT EQUAL TO COMMAND
D-OA	DAMPER - OUTSIDE AIR	A	CLOSED	% OPEN			DAMPER FURNISHED AS PART OF AHU BY MFR
D-RA	DAMPER - RETURN AIR	A	OPEN	% OPEN			DAMPER FURNISHED AS PART OF AHU BY MFR
D-SMK	DAMPER - FIRE/SMOKE	B	CLOSED	OPEN/CLOSED			HARDWIRED END SWITCH TO VERIFY POSITION
DP-PF	DIFFERENTIAL PRESSURE - PRE FILTER	B			GREATER THAN 0.8 IN.W.C.		
EPO	EMERGENCY POWER OFF	B			ACTIVATED		HARDWIRED TO STOP AHU; MANUAL RESET
H-HL	RELATIVE HUMIDITY - DUCT HIGH LIMIT	B			GREATER THAN 80%		
H-MA	RELATIVE HUMIDITY - MIXED AIR	A		% RH			
H-OA	RELATIVE HUMIDITY - OUTSIDE AIR	A		% RH			
H-RA	RELATIVE HUMIDITY - RETURN AIR	A		% RH			SETPOINT = 20%
H-SA	RELATIVE HUMIDITY - SUPPLY AIR	A		% RH			
H-SPACE	RELATIVE HUMIDITY - SPACE	A		% RH	%RH < 20% OR > 60%		SEE PLANS FOR LOCATIONS; SEE ROOM SENSOR SCHEDULE
SD-RA	SMOKE DETECTOR - RETURN AIR DUCT	B				WIRED BY F.A. INSTALLER	FURNISHED BY DIV 26
SD-SA	SMOKE DETECTOR - SUPPLY AIR DUCT	B				WIRED BY F.A. INSTALLER	FURNISHED BY DIV 26
SP-HL	STATIC PRESSURE - DUCT HIGH LIMIT	B			GREATER THAN 4 IN.W.C.		HARDWIRED INTERLOCK WITH SUPPLY FAN (STOPS AHU); MANUAL RESET
SP-SA	STATIC PRESSURE - SUPPLY AIR	A		IN. W.C.			LOCATE 2-3 DOWN LONGEST DUCT RUN; SETPOINT DETERMINED BY TAB TO ACHIEVE FULL AHU CFM
SPD-SF	SPEED CONTROL - SUPPLY FAN	A		% SPEED			
SS-PHP	START/STOP - PREHEAT PUMP	B					
SS-SF	START/STOP - SUPPLY FAN	B					
T-CC	TEMPERATURE - COOLING COIL LEAVING	A		DEG °F	SETPOINT + 4 °F		
T-HC	TEMPERATURE - HEATING COIL LEAVING	A		DEG °F	LESS THAN 40 °F		
T-MA	TEMPERATURE - MIXED AIR	A		DEG °F			
T-OA	TEMPERATURE - OUTSIDE AIR	A		DEG °F			
T-RA	TEMPERATURE - RETURN AIR	A		DEG °F			
T-SA	TEMPERATURE - SUPPLY AIR	A		DEG °F	SETPOINT + 4 °F		SETPOINT = T-CC + 2 °F
T-SPACE	TEMPERATURE - SPACE TEMP SENSOR	A		DEG °F			
V-CC	VALVE - COOLING COIL	A	CLOSED	% OPEN			
V-HC	VALVE - HEATING COIL	A	OPEN	% OPEN			
V-HUM	VALVE - HUMIDIFIER STEAM	A	CLOSED	% OPEN			VALVE FURNISHED BY HUMIDIFIER MFR
VFD-SF	VARIABLE FREQ DRIVE - SUPPLY FAN	varies		multiple			REPLICATE INFORMATION FROM FAN VFD BAS INTERFACE. HZ, % SPEED, KW, AMPS, SAFETIES, FAULTS
VP-OA	VELOCITY PRESSURE - OUTSIDE AIR	CFM		CFM	LESS THAN 90% SETPOINT		THERMAL DISPERSION AIR FLOW MEASUREMENT
VP-SF	VELOCITY PRESSURE - SUPPLY FAN INLET	A		CFM			PIEZO RING FAN INLET; IF FAN ARRAY, PROVIDE AT EACH FAN & BAS TO SUM WITH PARAGON SUMMING PANEL
CALCULATED OA MEASURED SP	OUTSIDE AIRFLOW	CFM		CFM			BAS TO COMPUTE SUPPLY AIR FLOW - RETURN AIR FLOW
	STATIC PRESSURE - HIGHEST BOX OPEN POSITION			SPACE INDENT			VAV BOX WITH HIGHEST DAMPER OPEN POSITION

NOTE:
SEE "FAN MOTOR CONTROL" SHEET FOR APPLICABLE INTERFACE OF VFD, BAS AND FIRE ALARM.



1 MECHANICAL CONTROLS - AIR ROTATION UNIT (TYPICAL)

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488 Middle Rd.
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PROJECT

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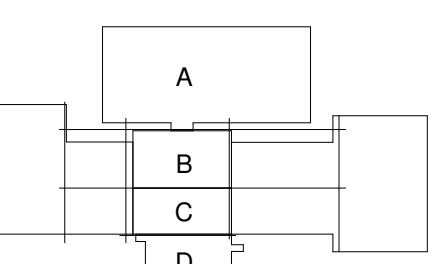


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KEYPLAN



ISSUE CHART

1 FOR PROPOSAL - ENABLING & PHASE 1A 3/18/2022

Job Number 023650.000

TITLE

MECHANICAL -
CONTROLS - PHASE
1A - ARU

SHEET NUMBER

M70-11

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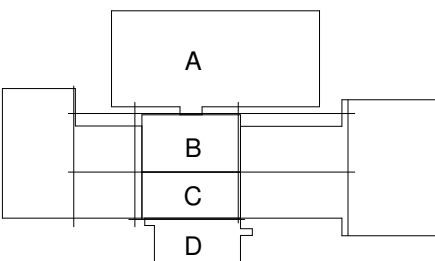
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KEYPLAN



ISSUE CHART

TITLE

MECHANICAL -
CONTROLS - PHASE
1A - FANS

SHEET NUMBER

M70-12

HVAC CONTROL SIGNAL LEGEND - FANS

SIGNAL LEGEND IS A DESCRIPTION OF POINTS AND NOT A QUANTITATIVE POINTS LIST. CONTRACTOR SHALL DEVELOP POINTS LIST BASED ON SCOPE OF PROJECT.

ACTION: "A"= ANALOG/MODULATING; "B"= BINARY/TWO POSITION.

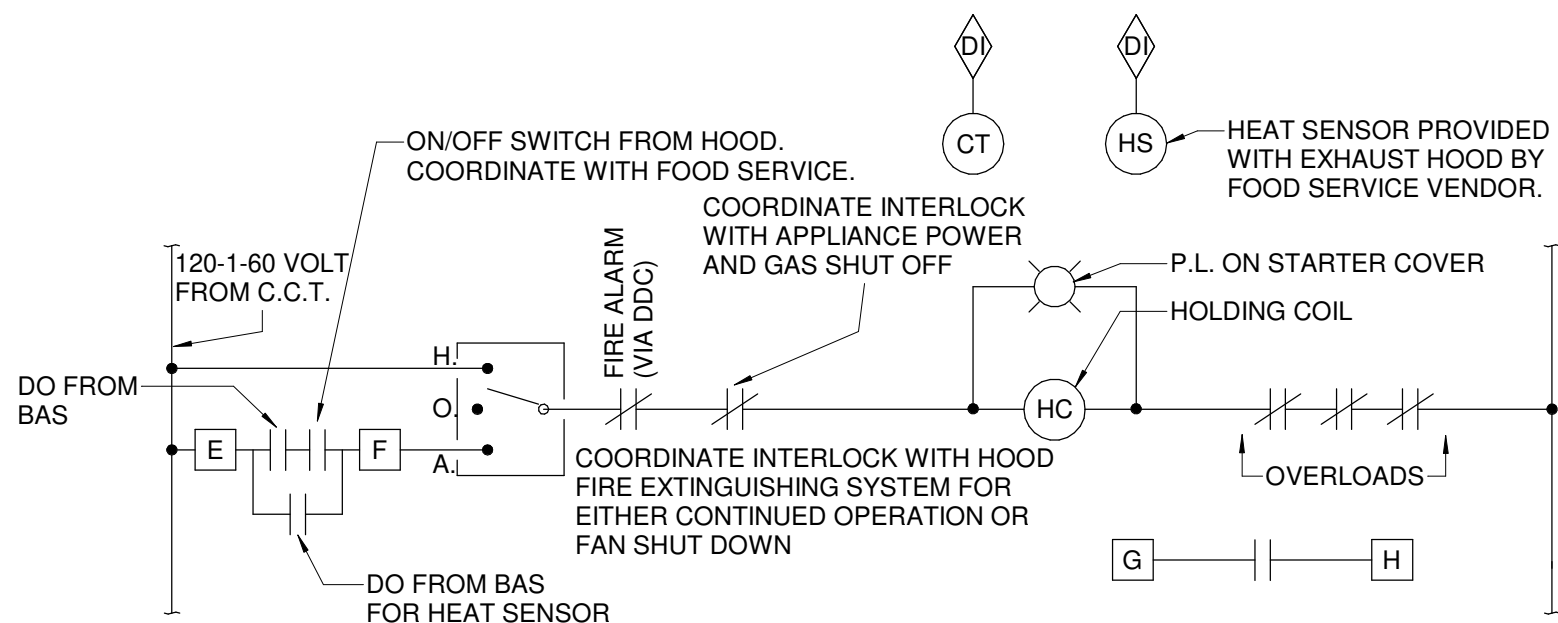
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ALL SETPOINTS, TIME DURATIONS AND ALARM VALUES SHALL BE ADJUSTABLE VIA GRAPHIC DISPLAY.

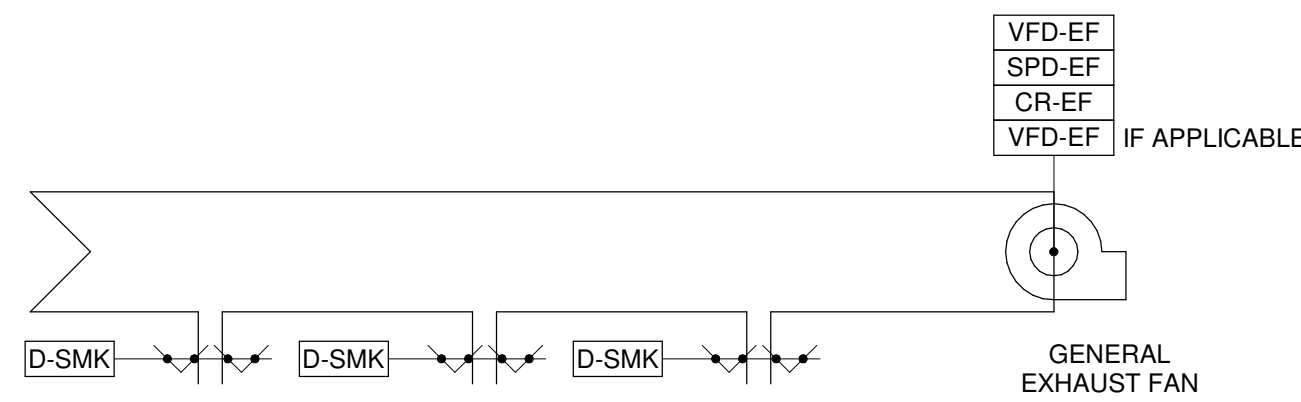
TAG	DEVICE	ACTION	FAIL POSITION	BAS VALUE	BAS ALARM	DIRECT CONTROL BY FIRE ALARM	NOTES
CR-EF	CURRENT RELAY - EXHAUST FAN	B		ON/OFF	MOTOR FAILURE		ALARM IF MOTOR STATUS NOT EQUAL TO COMMAND
CR-GEF	CURRENT RELAY - GREASE EXHAUST FAN	B		ON/OFF	MOTOR FAILURE		ALARM IF MOTOR STATUS NOT EQUAL TO COMMAND
D-SMK	DAMPER - FIRE/SMOKE	B	CLOSED	OPEN/CLOSED			HARDWIRED END SWITCH TO VERIFY POSITION
SP-LL	STATIC PRESSURE - DUCT LOW LIMIT	B			LESS THAN 2.5 IN.W.C.		
SPD-EF	SPEED CONTROL - EXHAUST FAN	A		% SPEED			HARDWIRE INTERLOCK WITH SUPPLY FAN IF APPLICABLE
SS-EF	START/STOP - EXHAUST FAN	B					HARDWIRE INTERLOCK WITH SUPPLY FAN IF APPLICABLE
SS-GEF	START/STOP - GREASE EXHAUST FAN	B					HARDWIRE INTERLOCK WITH SUPPLY FAN IF APPLICABLE
VFD-EF	VARIABLE FREQ DRIVE - EXHAUST FAN	varies	multiple	multiple			REPLICATE INFORMATION FROM FAN VFD BAS INTERFACE: HZ, % SPEED, KW, AMPS, SAFETIES, FAULTS



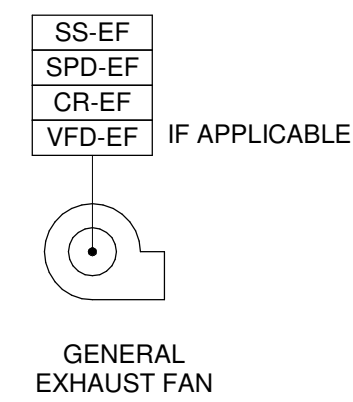
GREASE EXHAUST FAN CONTROL

NOT TO SCALE

SEQUENCE OF OPERATION:
RANGE HOOD EXHAUST FAN SHALL BE ENABLED TO START/STOP BY BAS.
UPON SIGNAL FROM HEAT SENSOR IN EXHAUST HOOD, FAN SHALL AUTOMATICALLY
START AND THE INTERLOCKED AHU SYSTEM SHALL BE ENABLED TO START IN COOKING MODE.

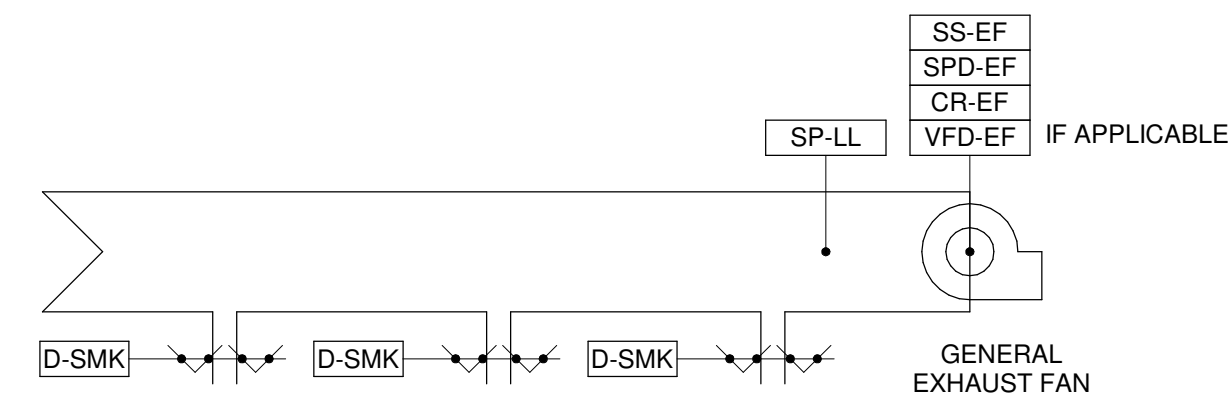


NOTE:
SEE "FAN MOTOR CONTROL" SHEET FOR APPLICABLE
INTERFACE OF VFD, BAS AND FIRE ALARM.



GREASE EXHAUST FAN - INTERLOCKED WITH AHU

FAN INTERLOCK SCHEDULE			
FAN ID	FAN LOCATION	AREA SERVED	TIME OF DAY SCHEDULE



EXHAUST FAN INTERLOCKED WITH AIR HANDLING UNIT
THE EF SHALL START/STOP PER INTERLOCKED SIGNAL FROM AIR HANDLING UNIT.
UPON ACTIVATION OF AREA SMOKE DETECTORS OR DUCT MOUNTED SMOKE DETECTORS OR IF AHU IS STOPPED BY FIRE
ALARM SYSTEM, FAN SHALL STOP AND FIRE/SMOKE DAMPERS SHALL CLOSE.

EXHAUST FAN INTERLOCKED WITH AIR HANDLING UNIT

FAN INTERLOCK SCHEDULE			
FAN ID	FAN LOCATION	AREA SERVED	INTERLOCKED WITH AHU

EXHAUST FAN SINGLE ZONE NO INTERLOCK
THE EF SHALL START/STOP BASED ON OPERATOR SIGNAL VIA BAS OR BY TIME-OF-DAY SCHEDULE.
UPON ACTIVATION OF AREA SMOKE DETECTORS OR DUCT MOUNTED SMOKE DETECTORS, FAN SHALL STOP AND FIRE/SMOKE
DAMPERS SHALL CLOSE.

EXHAUST FAN - SINGLE ZONE NO INTERLOCK

NO INTERLOCK - SINGLE ZONE			
FAN ID	FAN LOCATION	AREA SERVED	TIME OF DAY SCHEDULE

EXHAUST FAN MULTIPLE ZONE NO INTERLOCK
THE EF SHALL START/STOP BASED ON OPERATOR SIGNAL VIA BAS OR BY TIME-OF-DAY SCHEDULE.
UPON ACTIVATION OF AREA SMOKE DETECTORS OR DUCT MOUNTED SMOKE DETECTORS, FIRE/SMOKE DAMPERS IN THE ALARM
ZONE SHALL CLOSE. FAN SHALL CONTINUE TO RUN.
IF DUCT STATIC PRESSURE LOW LIMIT ACTIVATES, FAN SHALL STOP AND BAS SHALL SEND ALARM.

EXHAUST FAN - MULTIPLE ZONES NO INTERLOCK

NO INTERLOCK - MULTIPLE ZONES			
FAN ID	FAN LOCATION	AREA SERVED	TIME OF DAY SCHEDULE

1 SCHEMATIC - FANS

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PROJECT

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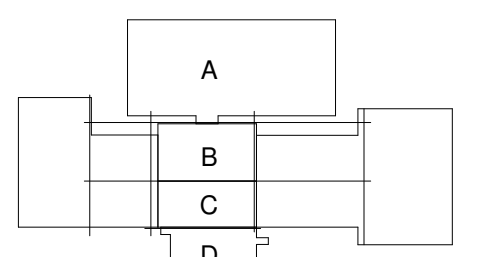
ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022



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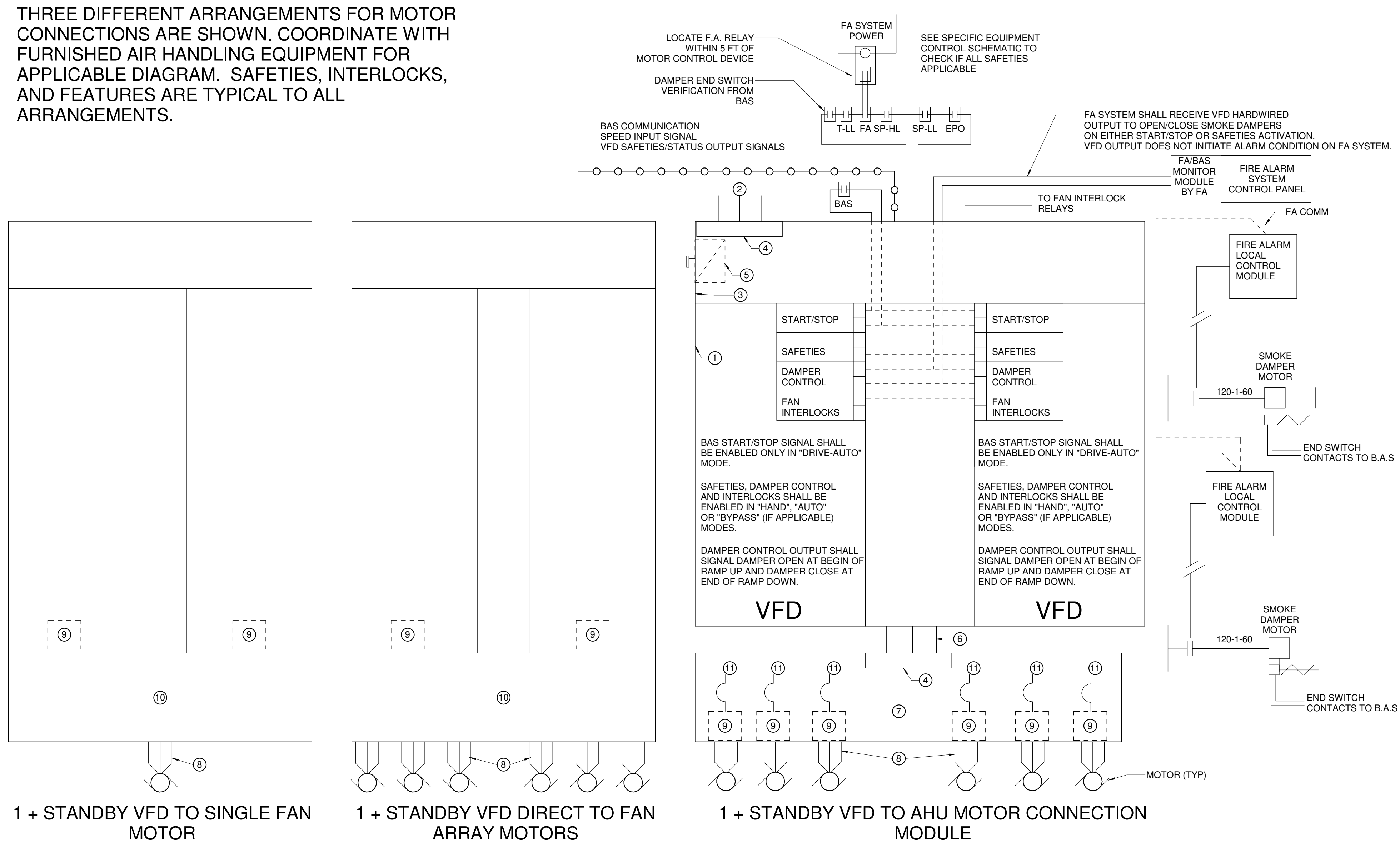
ISSUE CHART

1	FOR PROPOSAL - ENABLING & PHASE 1A	3/18/2022
SHEET	1	10/1
Job Number	023650.000	

TITLE
MECHANICAL -
CONTROLS - PHASE
1A - FAN MOTOR
CONTROL
SHEET NUMBER

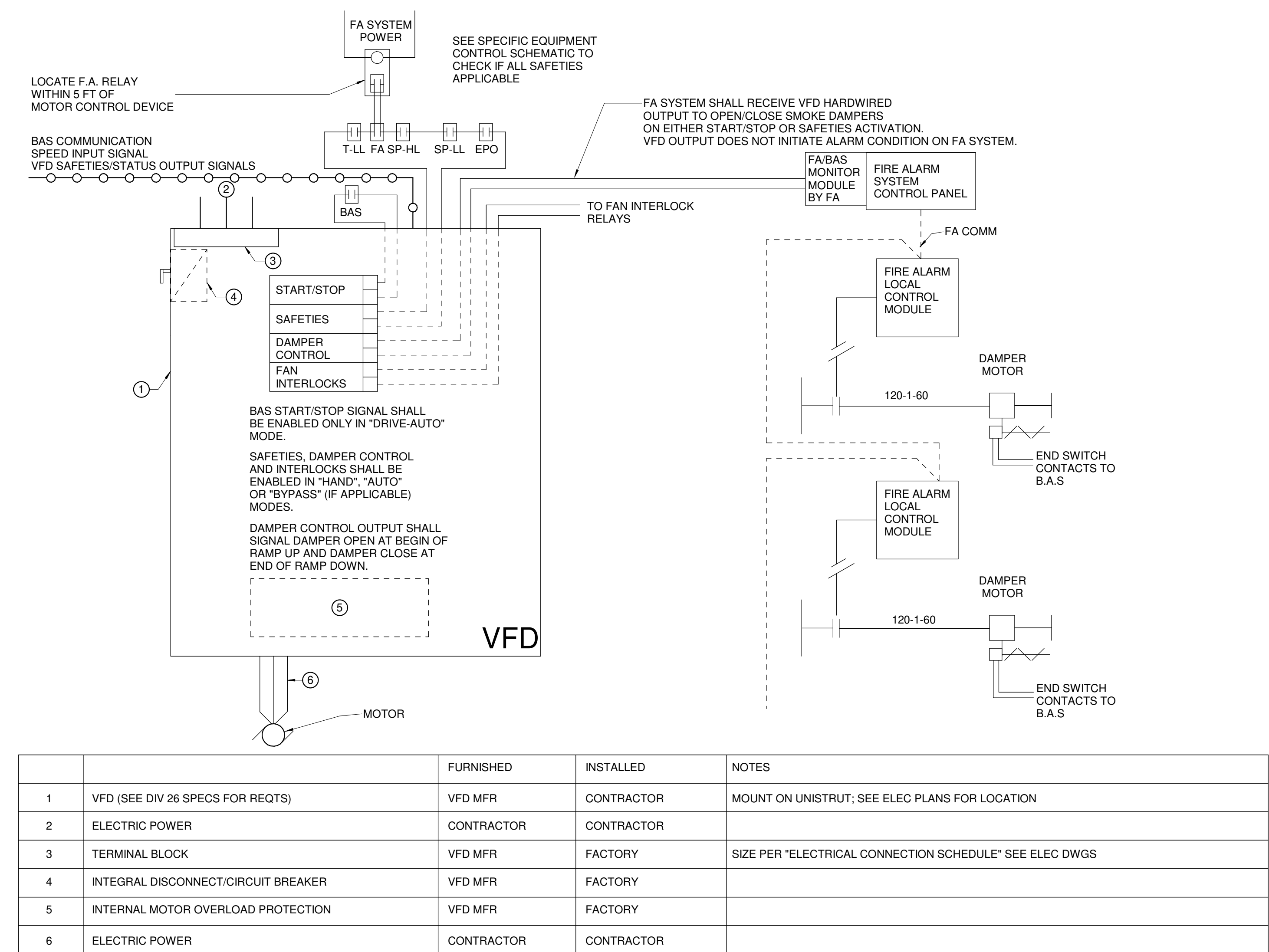
M70-13

THREE DIFFERENT ARRANGEMENTS FOR MOTOR CONNECTIONS ARE SHOWN. COORDINATE WITH FURNISHED AIR HANDLING EQUIPMENT FOR APPLICABLE DIAGRAM. SAFETIES, INTERLOCKS, AND FEATURES ARE TYPICAL TO ALL ARRANGEMENTS.



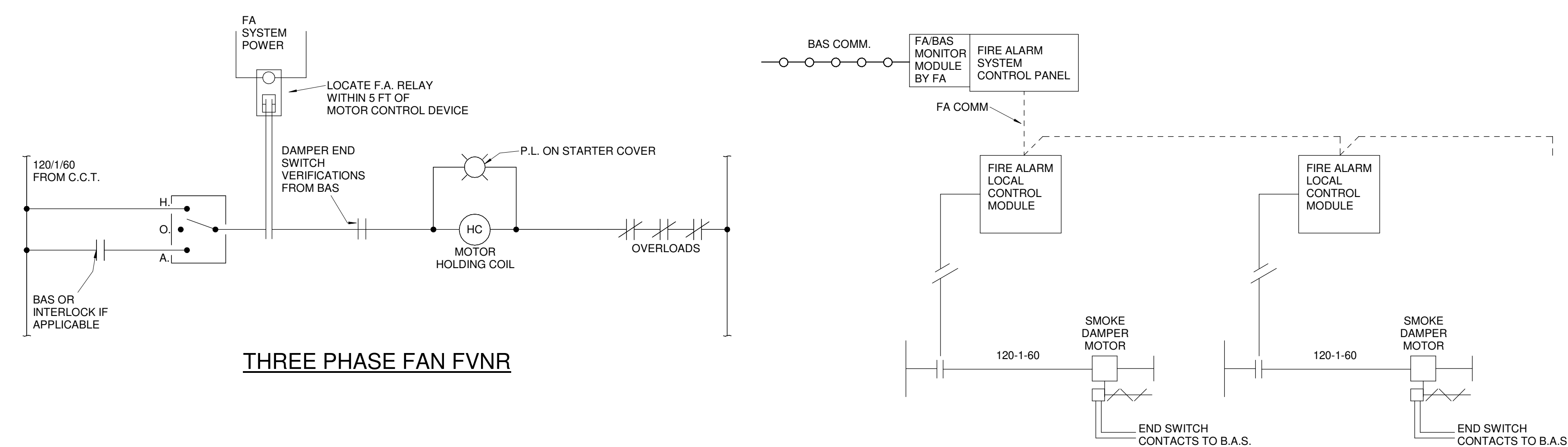
	FURNISHED	INSTALLED	NOTES
1	1 + STANDBY VFD (SEE DIV 26 SPECS)	AHU MFR	CONTRACTOR
2	ELECTRIC POWER	CONTRACTOR	CONTRACTOR
3	AUTO SWITCHING MODULE IN ENCLOSURE	AHU MFR	FACTORY
4	TERMINAL BLOCKS	AHU MFR	FACTORY
5	VFD MAIN DISCONNECT	AHU MFR	FACTORY
6	ELECTRIC POWER	CONTRACTOR	CONTRACTOR
7	MOTOR CONNECTION/PROTECTION MODULE	AHU MFR	AHU MFR
8	ELECTRIC POWER	CONTRACTOR	CONTRACTOR
9	INTERNAL MOTOR OVERLOAD PROTECTION	AHU MFR	FACTORY
10	MOTOR POWER DISTRIBUTION MODULE	AHU MFR	FACTORY
11	INTEGRAL DISCONNECT/CIRCUIT BREAKER	AHU MFR	FACTORY

AHU or FAN, 1 + STANDBY VFD



	FURNISHED	INSTALLED	NOTES
1	VFD (SEE DIV 26 SPECS FOR REOTS)	VFD MFR	CONTRACTOR
2	ELECTRIC POWER	CONTRACTOR	CONTRACTOR
3	TERMINAL BLOCK	VFD MFR	FACTORY
4	INTEGRAL DISCONNECT/CIRCUIT BREAKER	VFD MFR	FACTORY
5	INTERNAL MOTOR OVERLOAD PROTECTION	VFD MFR	FACTORY
6	ELECTRIC POWER	CONTRACTOR	CONTRACTOR

AHU or FAN, ONE FAN, ONE VFD



THREE PHASE FAN FVNR

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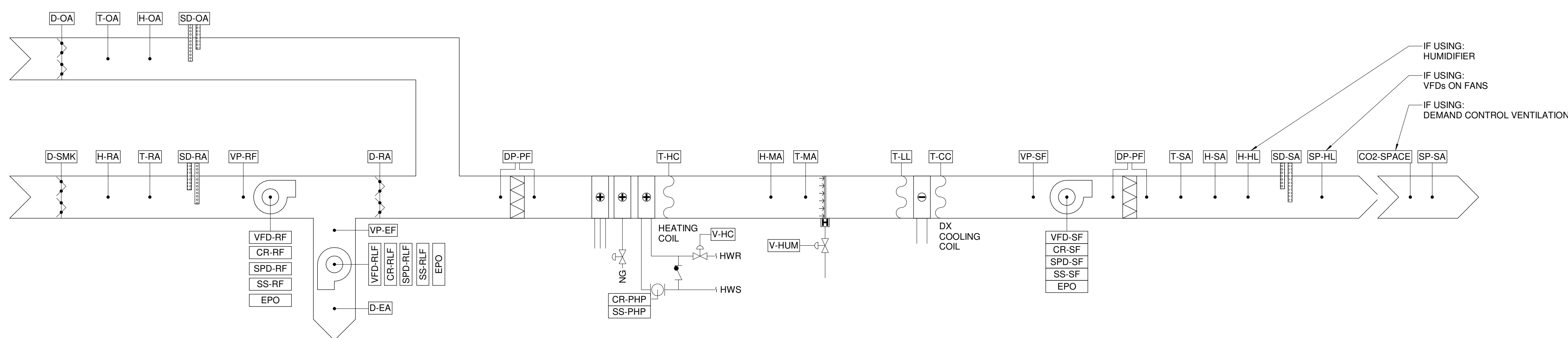
CONTRACTOR

CONSTRUCTION CO., INC.

4555 MIDOLE RD.

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DX AC UNIT CONTROLS SCHEDULE (12-25 TONS)		
UNIT OPERATION	UNIT MODULATES COMPRESSOR TO MAINTAIN ZONE AIR TEMP SETPOINT. FAN RUNS CONSTANT SPEED.	
ECONOMIZER	SINGLE ZONE CONSTANT VOLUME 0-100% DRY BULB WITH BAROMETRIC RELIEF, MOTORIZED OA DAMPER	UNIT STOPS COMPRESSOR, MODULATES RETURN AND OUTSIDE AIR DAMPER BASED ON OUTSIDE AIR DRY BULB TO MAINTAIN RETURN AIR TEMP SETPOINT (SINGLE ZONE); OR DISCHARGE AIR TEMP SETPOINT (MULTIZONE).
HEATING	GAS HEAT	MODULATING HEAT TO MAINTAIN RETURN AIR TEMP SETPOINT (SINGLE ZONE); OR DISCHARGE AIR TEMP SETPOINT (MULTIZONE).
ZONE CONTROL	SINGLE ZONE, SYSTEM- MANUAL HEAT/COOL/OFF; FAN AUTO/OFF	ONE ZONE SENSOR TO MANUALLY SELECT OPERATING MODE AND FAN OPERATION.
COMMUNICATION	TOUCHSCREEN PAD WITH LED DISPLAY BACNET INTERFACE TO GENERIC BAS	LOCATE PER OWNER DIRECTION. N/A
CONTROL FEATURES	RETURN AIR TEMP SENSOR STATUS DISCHARGE AIR TEMP SENSOR STATUS SMOKE DAMPER OPEN VERIFICATION BEFORE FAN START	STATUS INDICATION TO COMMUNICATION EQUIPMENT. STATUS INDICATION TO COMMUNICATION EQUIPMENT. N/A.
SAFETIES	CONDENSATE PAN OVERFLOW FAN SHUTDOWN FAN FAILURE INDICATION	UNIT SHALL SHUT DOWN UPON ACTIVATION. PROVIDE ALARM NOTIFICATION THRU COMMUNICATION EQUIPMENT. STATUS INDICATION TO COMMUNICATION EQUIPMENT.
FIRE ALARM CONTROL (COORDINATE W/ F.A. VENDOR)	FIRE ALARM INTERFACE SUPPLY DUCT SMOKE DETECTOR RETURN DUCT SMOKE DETECTOR	UNIT SHALL SHUT DOWN UPON SIGNAL BY FIRE ALARM. INSTALL WITH NO DUCT BRANCHES BETWEEN UNIT AND DETECTOR. INSTALL WITH NO DUCT BRANCHES BETWEEN UNIT AND DETECTOR.



NOT TO SCALE

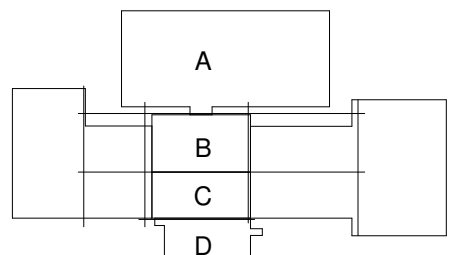
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City of Columbus

123 WASHINGTON ST.
COLUMBUS, IN 47201

KEYPLAN



ISSUE CHART

MECHANICAL -
CONTROLS - PHASE
1B - DX AC UNIT
CONTROLS
SHEET NUMBER

M70-21

CONSULTANTS

STRAND ASSOCIATES

629 WASHINGTON ST.
COLUMBUS, IN 47201

STRUCTURAL
SSR, INC.

2995 SIDCO DR.
NASHVILLE, TN 37204

MEP
SSR, INC.

2995 SIDCO DR.
NASHVILLE, TN 37204

LANDSCAPING
MKSK

200 S MERIDIAN ST.
INDIANAPOLIS, IN 46225

OWNER

CITY OF COLUMBUS

123 WASHINGTON ST.
COLUMBUS, IN 47201

FACILITY

FAIR OAKS MALL

2880 20TH ST.
COLUMBUS, IN 47201

CONTRACTOR

TAYLOR BROS. CONSTRUCTION CO., INC.

4555 MIDDLE RD.
COLUMBUS, IN 47203

PROJECT

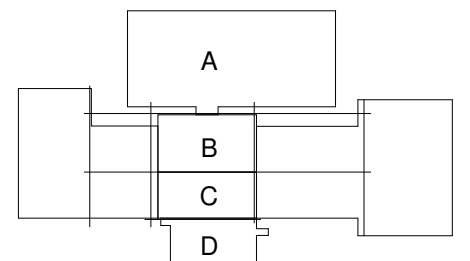
NEXUSPARK



City of Columbus

123 WASHINGTON ST.
COLUMBUS, IN 47201

KEYPLAN



ISSUE CHART

1	FOR PROPOSAL - ENABLING & PHASE 1A	3/18/2022
SHEET	000000	1 OF 1

Job Number 023650.000

TITLE

MECHANICAL -
CONTROLS - PHASE
1B - FANS

SHEET NUMBER

M70-22

HVAC CONTROL SIGNAL LEGEND - FANS

SIGNAL LEGEND IS A DESCRIPTION OF POINTS AND NOT A QUANTITATIVE POINTS LIST. CONTRACTOR SHALL DEVELOP POINTS LIST BASED ON SCOPE OF PROJECT.

ACTION: "A"= ANALOG/MODULATING; "B"= BINARY/TWO POSITION.

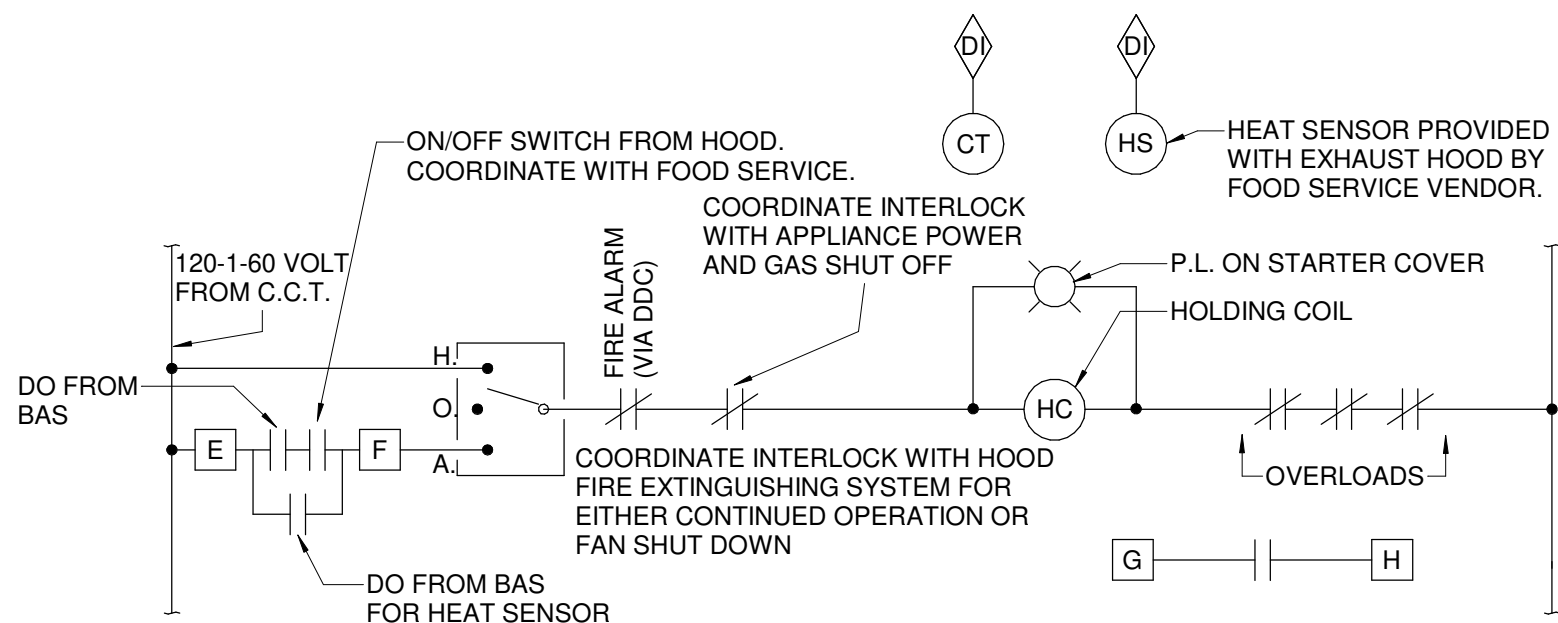
ALL POINTS LISTED IN "BAS VALUE" OR "BAS ALARM" SHALL BE SHOWN ON GRAPHICAL DISPLAY.

ALL ANALOG POINTS SHALL BE TRENDED. SEE TRENDED REQUIREMENTS FOR MORE INFORMATION.

ALL DAMPERS AND VALVES SHALL BE ABLE TO ACCEPT MANUAL OVERRIDE OF POSITION VIA GRAPHICAL DISPLAY.

ALL SETPOINTS, TIME DURATIONS AND ALARM VALUES SHALL BE ADJUSTABLE VIA GRAPHIC DISPLAY.

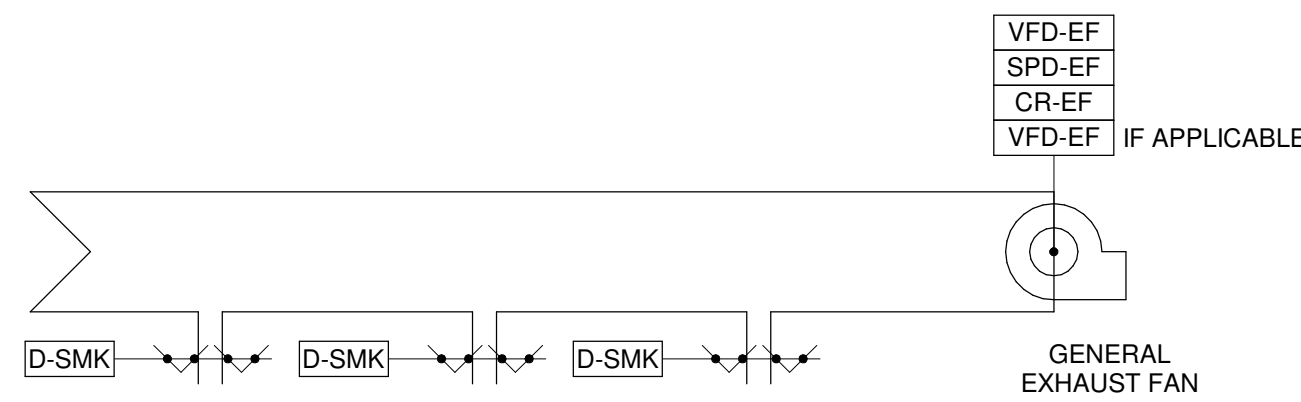
TAG	DEVICE	ACTION	FAIL POSITION	BAS VALUE	BAS ALARM	DIRECT CONTROL BY FIRE ALARM	NOTES
CR-EF	CURRENT RELAY - EXHAUST FAN	B		ON/OFF	MOTOR FAILURE		ALARM IF MOTOR STATUS NOT EQUAL TO COMMAND
CR-GEF	CURRENT RELAY - GREASE EXHAUST FAN	B		ON/OFF	MOTOR FAILURE		ALARM IF MOTOR STATUS NOT EQUAL TO COMMAND
D-SMK	DAMPER - FIRE/SMOKE	B	CLOSED	OPEN/CLOSED			HARDWIRED END SWITCH TO VERIFY POSITION
SP-LL	STATIC PRESSURE - DUCT LOW LIMIT	B			LESS THAN 2.5 IN.W.C.		
SPD-EF	SPEED CONTROL - EXHAUST FAN	A		% SPEED			HARDWIRED INTERLOCK WITH SUPPLY FAN IF APPLICABLE
SS-EF	START/STOP - EXHAUST FAN	B					HARDWIRED INTERLOCK WITH SUPPLY FAN IF APPLICABLE
SS-GEF	START/STOP - GREASE EXHAUST FAN	B					HARDWIRED INTERLOCK WITH SUPPLY FAN IF APPLICABLE
VFD-EF	VARIABLE FREQ DRIVE - EXHAUST FAN	varies	multiple	multiple			REPLICATE INFORMATION FROM FAN VFD BAS INTERFACE: HZ, % SPEED, KW, AMPS, SAFETIES, FAULTS



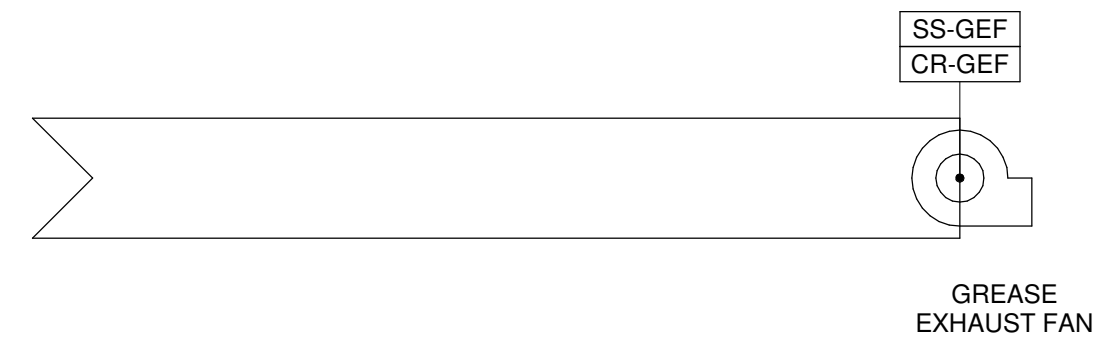
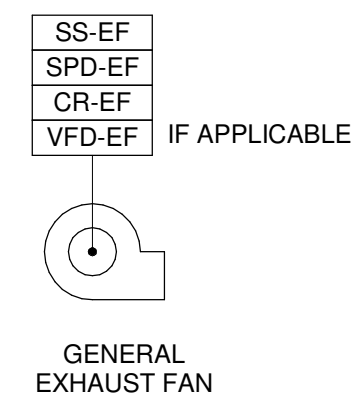
GREASE EXHAUST FAN CONTROL

NOT TO SCALE

SEQUENCE OF OPERATION:
RANGE HOOD EXHAUST FAN SHALL BE ENABLED TO START/STOP BY BAS.
UPON SIGNAL FROM HEAT SENSOR IN EXHAUST HOOD, FAN SHALL AUTOMATICALLY
START AND THE INTERLOCKED AHU SYSTEM SHALL BE ENABLED TO START IN COOKING MODE.



NOTE:
SEE "FAN MOTOR CONTROL" SHEET FOR APPLICABLE
INTERFACE OF VFD, BAS AND FIRE ALARM.



GREASE EXHAUST FAN INTERLOCKED WITH AIR HANDLING UNIT

THE GEF SHALL START/STOP BASED ON OPERATOR SIGNAL VIA BAS OR BY TIME-OF-DAY SCHEDULE.

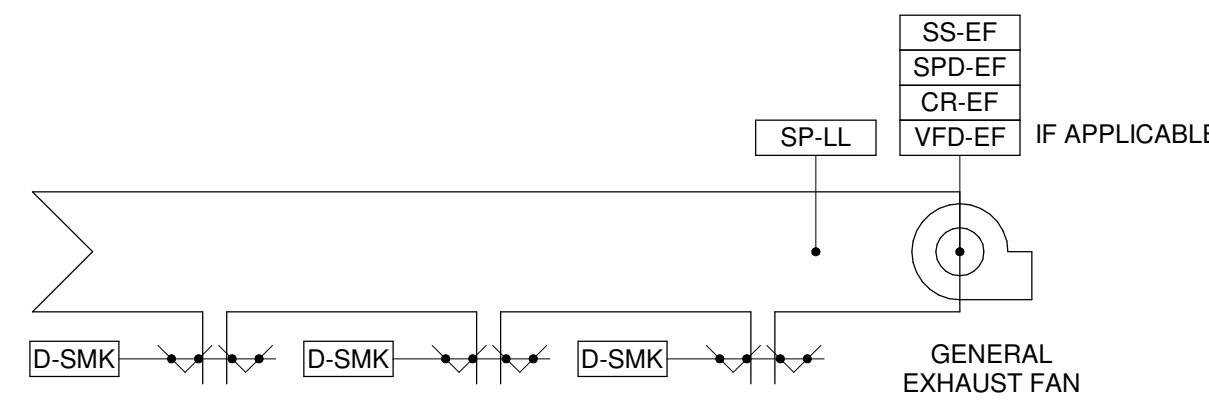
UPON SIGNAL FROM HEAT SENSOR IN EXHAUST HOOD, FAN SHALL AUTOMATICALLY START AND THE INTERLOCKED AHU SYSTEM
SHALL START IN COOKING MODE. AN ALARM SHALL BE INITIATED AT THE BAS.

COORDINATE INTERLOCK FOR SHUTDOWN WITH APPLIANCE POWER AND GAS SHUT OFF.

COORDINATE INTERLOCK WITH HOOD FIRE EXTINGUISHING SYSTEM FOR EITHER CONTINUED OPERATION OR FAN SHUT DOWN.

GREASE EXHAUST FAN - INTERLOCKED WITH AHU

FAN INTERLOCK SCHEDULE			
FAN ID	FAN LOCATION	AREA SERVED	TIME OF DAY SCHEDULE



EXHAUST FAN INTERLOCKED WITH AIR HANDLING UNIT
THE EF SHALL START/STOP PER INTERLOCKED SIGNAL FROM AIR HANDLING UNIT.
UPON ACTIVATION OF AREA SMOKE DETECTORS OR DUCT MOUNTED SMOKE DETECTORS OR IF AHU IS STOPPED BY FIRE
ALARM SYSTEM, FAN SHALL STOP AND FIRE/SMOKE DAMPERS SHALL CLOSE.

EXHAUST FAN INTERLOCKED WITH AIR HANDLING UNIT

FAN INTERLOCK SCHEDULE			
FAN ID	FAN LOCATION	AREA SERVED	INTERLOCKED WITH AHU

EXHAUST FAN SINGLE ZONE NO INTERLOCK
THE EF SHALL START/STOP BASED ON OPERATOR SIGNAL VIA BAS OR BY TIME-OF-DAY SCHEDULE
UPON ACTIVATION OF AREA SMOKE DETECTORS OR DUCT MOUNTED SMOKE DETECTORS, FAN SHALL STOP AND FIRE/SMOKE
DAMPERS SHALL CLOSE.

EXHAUST FAN - SINGLE ZONE NO INTERLOCK

NO INTERLOCK - SINGLE ZONE			
FAN ID	FAN LOCATION	AREA SERVED	TIME OF DAY SCHEDULE
EF-1			
EF-2			
EF-3			

EXHAUST FAN MULTIPLE ZONE NO INTERLOCK
THE EF SHALL START/STOP BASED ON OPERATOR SIGNAL VIA BAS OR BY TIME-OF-DAY SCHEDULE.
UPON ACTIVATION OF AREA SMOKE DETECTORS OR DUCT MOUNTED SMOKE DETECTORS, FIRE/SMOKE DAMPERS IN THE ALARM
ZONE SHALL CLOSE. FAN SHALL CONTINUE TO RUN.
IF DUCT STATIC PRESSURE LOW LIMIT ACTIVATES, FAN SHALL STOP AND BAS SHALL SEND ALARM.

EXHAUST FAN - MULTIPLE ZONES NO INTERLOCK

NO INTERLOCK - MULTIPLE ZONES			
FAN ID	FAN LOCATION	AREA SERVED	TIME OF DAY SCHEDULE

1 SCHEMATIC - FANS

NOT TO SCALE

FIRE PROTECTION GENERAL NOTES	
A. ALL WORK ON DESIGNATED SPRINKLER/STANDPIPE SYSTEMS SHALL PERFORMED BY A STATE LICENSED FIRE SPRINKLER CONTRACTOR.	
B. THE CONTRACTOR SHALL PROVIDE SPRINKLER AND STANDPIPE SYSTEM(S) AS SPECIFIED AND AS INDICATED FOR THE ENTIRE FACILITY, UNLESS NOTED OTHERWISE IN SPECIFIC AREAS. PROVIDE AUTOMATIC SPRINKLER ZONING AND/OR AUXILIARY FIRE PROTECTION SYSTEMS AS INDICATED ON THE FIRE PROTECTION DRAWINGS. COMPLETE FIRE SPRINKLER SHOP DRAWINGS, INCLUDING HYDRAULIC CALCULATIONS, SEISMIC CALCULATIONS, AND EQUIPMENT CUT SHEETS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD, THE LOCAL FIRE MARSHAL, AND ANY OTHER AUTHORITIES HAVING JURISDICTION FOR REVIEW AND APPROVAL. NO WORK SHALL BEGIN PRIOR TO OBTAINING APPROVAL FROM ALL AUTHORITIES HAVING JURISDICTION.	
C. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO INSTALLATION.	
D. THE FIRE PROTECTION SYSTEM, EQUIPMENT AND COMPONENTS SHALL BE DESIGNED, HYDRAULICALLY CALCULATED, AND INSTALLED IN FULL ACCORDANCE WITH APPLICABLE SECTIONS OF NFPA 10, 13, 14, 20, 24 AND 101. FINAL SYSTEM DESIGN AND INSTALLATION SHALL ALSO COMPLY WITH ALL LOCAL, COUNTY AND STATE BUILDING CODES ALONG WITH THE REQUIREMENTS OF ANY INSURANCE UNDERWRITERS. WHENEVER A CONFLICT IN CRITERIA OCCURS, THE MORE STRINGENT REQUIREMENT TAKES PRECEDENCE.	
E. ALL CONTROL VALVES SHALL HAVE TAMPER SWITCHES CONNECTED TO THE FACILITY'S FIRE ALARM SYSTEM. REFER TO FIRE ALARM DRAWINGS FOR FIRE ALARM DEVICES, FIRE DETECTION DEVICES AND INTERFACE POINTS WITH TAMPER SWITCHES. FLOW SWITCHES AND RELATED ITEMS INDICATED ON THE FIRE PROTECTION PLANS.	
F. DRAWINGS ARE SCHEMATIC ONLY, INDICATE DESIGN INTENT AND SHALL NOT BE SCALED. ACTUAL LOCATION OF FIRE SPRINKLERS, AND EQUIPMENT SHOWN ON DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. COORDINATE FIRE PIPE ROUTING WITH ALL TRADES TO MAXIMIZE AVAILABLE CLEARANCES AND AVOID FIELD INSTALLATION CONFLICTS. ALL EXPOSED PIPING SHALL BE ROUTED AS CLOSE AS POSSIBLE TO THE BUILDING STRUCTURAL MEMBERS, UNLESS NOTED OTHERWISE.	
G. MAINTAIN ACCESSIBILITY OF VALVES, FLOW AND TAMPER SWITCHES, INSPECTOR'S TEST STATIONS, FIRE DEPARTMENT CONNECTIONS AND RELATED ITEMS. PROVIDE LABELED ACCESS DOORS WHERE NECESSARY AND AS APPROVED BY THE ARCHITECT.	
H. ALL CONTROL, DRAIN, AND TEST CONNECTION VALVES SHALL BE PROVIDED WITH PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC IDENTIFICATION SIGNS INDICATING THE FUNCTION AND THE PORTION OF THE BUILDING/FACILITY SERVED.	
I. INSTALL ALL PIPING, FITTINGS AND JOINTS TO FOLLOW THE GEOMETRY OF THE STRUCTURE. LOCATE EXPOSED PIPING IN PUBLIC AREAS OUT OF DIRECT VIEW WHERE PRACTICAL. EXPOSED PIPING SHALL BE INSTALLED PARALLEL TO ADJACENT BUILDING COMPONENTS.	
J. COORDINATE INSTALLATION OF PIPING AND EQUIPMENT WITH ELECTRICAL EQUIPMENT TO MAINTAIN WORKING CLEARANCES IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.	
K. INSTALL PIPING TO MAINTAIN SPECIFIED CLEARANCES ABOVE CEILINGS.	
L. PROVIDE UL APPROVED PENETRATION ASSEMBLIES FOR ALL FIRE PROTECTION PIPING PASSING THROUGH RATED ASSEMBLIES.	
M. ALL SPRINKLERS IN FINISHED AREAS SHALL BE QUICK RESPONSE, UNLESS NOTED OTHERWISE.	
N. ALL SPRINKLERS SHALL BE INSTALLED SYMMETRICALLY WHERE POSSIBLE. INSTALL SPRINKLERS IN THE CENTER POINT OF ALL 2 X 2 CEILING TILES, OR CENTERED IN THE NARROW DIRECTION AND EITHER AT THE CENTER OR QUARTER POINT OF THE LONG DIRECTION OF ALL 2 X 4 CEILING TILES.	
O. PROVIDE AUTOMATIC SPRINKLERS BELOW ALL DUCTWORK OR OTHER OBSTRUCTIONS AS REQUIRED BY NFPA 13. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR APPLICABLE LOCATIONS. COORDINATE PLACEMENT WITH ACTUAL INSTALLATION.	
P. MULTIPLE CEILING MATERIALS AND EXPOSED BUILDING FEATURES ARE DESIGNED THROUGHOUT THIS FACILITY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DETAILS.	
Q. CONTRACTOR SHALL INSTALL AN INSPECTOR'S TEST, MAIN DRAIN, AND AUXILIARY DRAINS FOR ALL SYSTEMS AS REQUIRED. ROUTE ALL TEST AND DRAIN PIPING OUTSIDE OF THE BUILDING, UNLESS NOTED OTHERWISE.	
R. PROVIDE A GENERAL INFORMATION SIGN FOR EACH SYSTEM AT THE RISER OR SYSTEM CONNECTION. THE SIGN SHALL INCLUDE THE FOLLOWING INFORMATION: NAME AND LOCATION OF THE FACILITY, PRESENCE OF HIGH-PILED AND/OR RACK STORAGE, FLOW TEST INFORMATION, AREA SERVED, PRESENCE OF FLAMMABLE/COMBUSTIBLE LIQUIDS, PRESENCE OF HAZARDOUS MATERIALS, PRESENCE OF OTHER SPECIAL STORAGE, LOCATION OF AUXILIARY AND LOW POINT DRAINS, NAME OF INSTALLING CONTRACTOR, AND LOCATION OF ANTIFREEZE OR ANY OTHER AUXILIARY FIRE PROTECTION SYSTEMS.	
S. THE CONTRACTOR SHALL CONTACT AUTHORITIES HAVING JURISDICTION, ANY INSURANCE UNDERWRITERS, ARCHITECT/ENGINEER AND THE OWNER'S REPRESENTATIVE TO WITNESS THE FINAL ACCEPTANCE TESTING OF ALL SYSTEMS.	
T. SEE PLUMBING GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.	
U. ALL SPRINKLER SYSTEM INSTALLED UNDER TE SCOPE OF WORK SHALL BE INSTALLED PER CATEGORY "C" SEISMIC REQUIREMENTS.	

AUTOMATIC SPRINKLER NOTES	
A. THIS BUILDING IS PRESENTLY FULLY SPRINKLERED. THE CONTRACTOR SHALL EXTEND THE AUTOMATIC SPRINKLER SYSTEM TO INCLUDE THE NEW ADDITION. CONTRACTOR SHALL REWORK EXISTING SPRINKLER HEADS AND PIPING IN REMODELED AREA. SYSTEM SHALL BE DESIGNED IN FULL ACCORDANCE WITH NFPA 13 AND LOCAL CODES AND REQUIREMENTS. CONTRACTOR SHALL MATCH EXISTING PIPING MATERIAL AND SPRINKLER HEADS.	

PLUMBING GENERAL NOTES	
A. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT SCOPE, UTILITY CONNECTIONS AND ALL BUILDING SERVICES. EXISTING SITE UTILITIES SHALL BE FIELD LOCATED FOR EXACT LOCATION AND ELEVATION BEFORE BEGINNING CONSTRUCTION OR DEMOLITION.	
B. DRAWINGS SHOW KNOWN EXISTING SERVICES, PIPING, FIXTURES, EQUIPMENT, AND CONNECTIONS IN REASONABLE PROXIMITY. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS AND SIZES. ANY DISCREPANCIES AND / OR DEVIATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ARCHITECT'S ATTENTION.	
C. COORDINATE WATER, WASTE, VENT, RAIN WATER AND OTHER PIPING WITH ALL TRADES TO AVOID SPACING AND ROUTING PROBLEMS.	
D. FIXTURES, EQUIPMENT, CONNECTIONS AND PIPING SHALL BE FURNISHED AND INSTALLED TO MEET OR EXCEED STATE AND LOCAL CODES AND REQUIREMENTS.	
E. STANDARD DETAILS ILLUSTRATED ON THE DRAWINGS SHALL BE APPLIED IN ALL CASES WHERE THE FEATURE OCCURS IN THE SYSTEM DESIGN.	
F. FURNISH AND INSTALL SHOCK ARRESTORS IN COLD WATER LINES AT CONNECTIONS TO FLUSH VALVES AND QUICK CLOSING VALVES AND AT EACH HOT AND COLD WATER CONNECTION TO FIXTURES.	
G. PLUMBING VENTS AND STACKS THROUGH ROOF SHALL BE INSTALLED A MINIMUM OF 25 FEET CLEAR OF HVAC OUTSIDE AIR INTAKES AND ANY OPERABLE WINDOW OR BUILDING OPENING.	
H. VENT AND WASTE STACKS LESS THAN THREE INCHES IN DIAMETER SHALL NOT ROUTE THROUGH THE ROOF. PROVIDE INCREASES ON PIPING BELOW ROOF.	
I. PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE SLEEVED, SEALED AND FIRESEALED TO MAINTAIN THE INTEGRITY OF THE WALL AND FLOOR UL FIRE RESISTANCE RATING.	
J. DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES.	
K. PROVIDE INSULATION KIT FOR SUPPLIES, TRAP AND DRAIN PIPING FOR ALL HANDICAP ACCESSIBLE LAVATORIES AND SINKS. INSULATION OF PIPING IS NOT REQUIRED WHERE PROTECTIVE SKIRT IS PROVIDED BELOW FIXTURE.	
L. PROVIDE HOUSEKEEPING PADS UNDER ALL EQUIPMENT. COORDINATE PAD SIZE AND FLOOR DRAIN LOCATIONS WITH FINAL EQUIPMENT PAD LOCATIONS. LOCATE DRAINS NEAR EQUIPMENT DRAINS AND DISCHARGE TO AVOID ROUTING OF PIPING ACROSS WALK PATHS.	
M. SUPPORTS, ANCHOR BOLTS AND HANGERS FOR ALL EQUIPMENT SPECIFIED SHALL CONFORM TO THE SPECIFICATIONS. MISCELLANEOUS STEEL BRACING SUPPORTS AND REINFORCING STEEL NEEDED TO SUPPORT EQUIPMENT AND PIPING SYSTEMS SPECIFIED SHALL BE FURNISHED AND INSTALLED AS PART OF THE WORK.	
N. MAINTAIN ACCESSIBILITY OF ALL EQUIPMENT AND VALVES. PROVIDE ACCESS PANELS AS REQUIRED. COORDINATE PLACEMENT WITH THE ARCHITECT PRIOR TO INSTALLATION.	
O. INSTALL EXTERIOR WALL HYDRANTS AT 18" ABOVE FINISHED GRADE.	
P. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO CUTTING ANY OPENING IN THE STRUCTURE. COORDINATE SLEEVING OF BEAMS AND CORING OF STRUCTURE WITH STRUCTURAL DRAWINGS AND DETAILS PRIOR TO INSTALLATION.	
Q. CONTRACTOR SHALL PROVIDE TRAP PRIMERS ON ALL FLOOR DRAINS NOT RECEIVING CONSTANT DISCHARGE FROM FIXTURES AND/OR EQUIPMENT AND AS REQUIRED BY STATE AND LOCAL CODES.	
R. ALL SANITARY AND STORM WATER PIPING BELOW GRADE IN AREAS SUBJECT TO TRAFFIC WITH LESS THAN TWO FEET OF EARTH COVER SHALL BE DUCTILE IRON.	
S. PROVIDE PIPING EXPANSION JOINTS AT EACH PIPE CROSSING AN INTERIOR BUILDING EXPANSION JOINT.	
T. ORIENT FLUSH VALVE HANDLES ASSOCIATED WITH BARRIER-FREE WATER CLOSETS ON THE WIDE SIDE OF THE STALL TO COMPLY WITH ADA REQUIREMENTS.	
U. PROVIDE LEAD FREE MIXING VALVES UNDER PUBLIC LAVATORIES, KITCHEN HAND WASHING SINKS OR ANY OTHER FIXTURE REQUIRING TEMPERED WATER TO MEET ASSE 107.0/ASSE 112.2/97.0 OR LOCAL ADOPTED CODE.	
V. A DOUBLE WYE OR DOUBLE COMBINATION WYE AND 1/8 BEND FITTING IS NOT ACCEPTABLE IN A HORIZONTAL POSITION FOR A DRAINAGE SYSTEM.	
W. ALL NATURAL GAS SYSTEM INSTALLED UNDER TE SCOPE OF WORK SHALL BE INSTALLED PER CATEGORY "C" SEISMIC REQUIREMENTS.	

PLUMBING DEMOLITION NOTES	
A. CONTRACTOR SHALL REMOVE EXISTING SERVICES SUCH AS WATER, WASTE AND VENT PIPING SERVING FIXTURES AND/OR CONNECTIONS TO EQUIPMENT WHICH ARE SHOWN ON THE DRAWINGS TO BE REMOVED OR RELOCATED. PERMANENTLY SEAL AND CAP SERVICES NEXT TO MAIN SERVICE LINES ABOVE CEILINGS, IN WALLS OR BELOW FLOORS. ALL EXISTING DOMESTIC HOT AND COLD WATER DEAD-END PIPING, WHETHER SHOWN ON THE DRAWINGS OR NOT SHALL BE REMOVED BACK TO MAIN.	
B. EXISTING PLUMBING FIXTURES AND RELATED ITEMS WHICH ARE TO BE REMOVED SHALL BE SUBMITTED TO THE OWNER. ITEMS THE OWNER WISHES TO RETAIN SHALL BE STORED BY THE CONTRACTOR WHERE DIRECTED BY THE OWNER. ALL OTHER ITEMS NOT RETAINED BY THE OWNER SHALL BE LEGALLY DISPOSED.	
C. DRAWINGS SHOW KNOWN EXISTING SERVICES IN REASONABLE PROXIMITY. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS. NOTE DISCREPANCIES AND BRING TO THE ARCHITECT'S ATTENTION.	
D. EXISTING FIXTURES, EQUIPMENT, SERVICES AND CONNECTIONS WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE REWORKED OR REPLACED AS REQUIRED TO PROVIDE ORIGINAL CONDITION AND OPERATION.	
E. PENETRATIONS THROUGH EXISTING WALLS AND FLOORS SHALL BE SLEEVED, PATCHED AND SEALED/FIRESEALED TO MAINTAIN THE INTEGRITY OF EXISTING WALL AND FLOOR UL FIRE RESISTANCE RATING.	
F. EXISTING PLUMBING SERVICES NOT SHOWN ON THE DRAWINGS SHALL REMAIN AS IS, UNLESS NOTED OTHERWISE.	
G. CONTRACTOR SHALL COORDINATE THE INTERRUPTION OF EXISTING SERVICES WITH THE OWNER PRIOR TO DEMOLITION OR CONSTRUCTION. PROVIDE A MINIMUM OF 48 HOURS WRITTEN NOTICE WITH ANTICIPATED DURATION OF OUTAGE. ALL WORK SHALL BE PERFORMED TO FIT THE OPERATIONAL SCHEDULE OF THE FACILITY.	
H. EXISTING FIXTURES, EQUIPMENT CONNECTIONS AND SERVICE LINES SHALL BE FIELD VERIFIED FOR EXACT LOCATION AND SIZE. NOTE DISCREPANCIES AND DEVIATIONS AND BRING TO THE ARCHITECT'S ATTENTION.	

PLUMBING LEGEND					
NOT ALL SYMBOLS MAY BE USED					
SYMBOL	ABB.	DESCRIPTION	SYMBOL	ABB.	DESCRIPTION
	CW	DOMESTIC COLD WATER			PIPE TURN DOWN
	CW	DOM. COLD WATER (BELOW)			PIPE TURN UP
	CW HP	DOMESTIC COLD WATER HIGH PRESSURE			GATE VALVE
	HW	DOMESTIC HOT WATER			CHECK VALVE
	HW	DOMESTIC HOT WATER (BELOW)			BALANCING VALVE
	HW 140	DOMESTIC HOT WATER 140			BUTTERFLY VALVE
	HWR	DOMESTIC HOT WATER RECIRC.		PRV	PRESSURE REGULATING VALVE
	HWR	DOMESTIC HOT WATER RECIRC. (BELOW)			SOLENOID VALVE
	D	DRAIN			STRAINER
	D	DRAIN (BELOW)			REDUCER
	PD	PUMP DISCHARGE			PIPE GUIDE
	PD	PUMP DISCHARGE (BELOW)			ANCHOR
	SHW	SOFTENED HOT WATER			PRESSURE GAUGE
	SCW	SOFTENED COLD WATER			THERMOMETER
	DI	DEIONIZED WATER SUPPLY			CAPPLUG
	DIR	DEIONIZED WATER RETURN		CO	CLEANOUT (ABOVE CEILING)
	RO	REVERSE OSMOSIS			UNION
	TW	TEMPERED WATER		PR	PRESSURE RELIEF VALVE
	G	NATURAL GAS			SHOCK ARRESTOR
	TP	TRAP PRIMER			HOSE BIBB / WALL HYDRANT
	W	WASTE		FCO	FLOOR CLEAN OUT
	W	WASTE (BELOW)		WCO	WALL CLEAN OUT
	V	SANITARY VENT		FD	FLOOR DRAIN
	SW	STORM WATER		VTR	VENT THRU ROOF
	SW	STORM WATER (BELOW)		I.E.	INVERT ELEVATION
	OD	STORM OVERFLOW DRAIN		AFF	ABOVE FINISHED FLOOR

FIRE PROTECTION LEGEND					
NOT ALL SYMBOLS MAY BE USED					
SYMBOL	ABB.	DESCRIPTION	SYMBOL	ABB.	DESCRIPTION
	AS	AUTOMATIC SPRINKLER SYSTEM			PIPE TURN DOWN
	DPSS	DRY PIPE SPRINKLER SYSTEM			PIPE TURN UP
	FDR	FIRE DRAIN RISER			GATE VALVE
	F	FIRE MAIN			CHECK VALVE
	MDSP	MANUAL DRY STANDPIPE SYSTEM			BUTTERFLY VALVE
	PASS	PRE-ACTION SPRINKLER SYSTEM		PRV	PRESSURE REGULATING VALVE
					SOLENOID VALVE
					REDUCER
					PIPE GUIDE
					ANCHOR
					PRESSURE GAUGE
					CAPPLUG
				I.E.	INVERT ELEVATION
				AFF	ABOVE FINISHED FLOOR
				DCVA	DOUBLE CHECK VALVE ASSEMBLY
				DDCVA	DOUBLE DETECTOR CHECK VALVE ASSEMBLY
					FIRE RISER ID SIZE / SYSTEM-RISER ID (UP/DN)
					CEILING SPRINKLER - UPRIGHT
					CEILING SPRINKLER - CONCEALED
					CEILING SPRINKLER - RECESSED PENDANT
					SIDEWALL SPRINKLER
					SIDEWALL EXTENDED COVERAGE SPRINKLER
					WALL HUNG FIRE EXTINGUISHER
					FIRE EXTINGUISHER CABINET
					FIRE DEPARTMENT CONNECTION

PLUMBING EQUIPMENT NAMING CONVENTION			
ABB.	DESCRIPTION	ABB.	DESCRIPTION
AAP	AREA ALARM PANEL	HT	HEAT TRACE
AC	AIR COMPRESSOR	HWRP	DOMESTIC HEAT WATER RECIRCULATION PUMP
BP	DOMESTIC WATER BOOSTER PUMP	MV	MIXING VALVE
CAP	COMPRESSED AIR CONTROL PANEL	PP	PLUMBING PUMP
DWP	DOMESTIC WATER PUMP	PRV	PRESSURE REDUCING VALVE
ET	EXPANSION TANK	RBPB	REDUCED PRESSURE BACKFLOW PREVENTER
EW	ELECTRIC WATER HEATER	WH	WATER HEATER
GRV	NATURAL GAS PRESSURE REGULATING VALVE	WS	WATER SOFTENER
GWH	GAS WATER HEATER		

EQUIPMENT NOMENCLATURE	
EQUIPMENT IDENTIFICATION TAGS ARE COMPOSED AS FOLLOWS:	
<div><div><div>EQUIPMENT TYPE</div><div>AREA</div></div><div><div>LEVEL & AREA</div><div>SECTOR</div></div></div> <div>EXAMPLE: WATER HEATER WH-4B-1</div> <div><div>EQUIPMENT TAG NUMBER WITHIN EACH SECTOR</div><div>EQUIPMENT TAG NUMBER OF 1</div></div>	
LEVELS: 1 = LEVEL 1 4 = LEVEL 4 7 = LEVEL 7 2 = LEVEL 2 5 = LEVEL 5 8 = LEVEL 8 3 = LEVEL 3 6 = LEVEL 6 9 = LEVEL 9	
AREA / QUAD / SECTOR: A = AREA A D = AREA D G = AREA G B = AREA B E = AREA E H = AREA H C = AREA C F = AREA F I = AREA I	

SHEET INDEX - PLUMBING	
NUMBER	SHEET NAME
P00-01	PLUMBING LEGENDS, INDEX AND NOTES
P00-02	PLUMBING SCHEDULES
P01-01	PLUMBING - LEVEL 01 - OVERALL - ENABLING PHASE - DEMOLITION PLAN
P01-02	PLUMBING - LEVEL 01 - SECTOR B - ENABLING PHASE - DEMOLITION PLAN
P01-03	PLUMBING - ROOF - OVERALL - ENABLING PHASE - DEMOLITION PLAN
P01-04	PLUMBING - ROOF - SECTOR B - ENABLING PHASE - DEMOLITION PLAN
P01-20	PLUMBING - LEVEL 01 - OVERALL - PHASE 1B - DEMOLITION PLAN
P01-22	PLUMBING - LEVEL 01 - SECTOR B - PHASE 1B - DEMOLITION PLAN
P01-23	PLUMBING - LEVEL 01 - SECTOR C - PHASE 1B - DEMOLITION PLAN
P01-24	PLUMBING - LEVEL 01 - SECTOR D - PHASE 1B - DEMOLITION PLAN
P02-20	PLUMBING - ROOF - OVERALL - PHASE 1B - DEMOLITION PLAN
P02-22	PLUMBING - ROOF - SECTOR B - PHASE 1B - DEMOLITION PLAN
P02-23	PLUMBING - ROOF - SECTOR C - PHASE 1B - DEMOLITION PLAN
P02-24	PLUMBING - ROOF - SECTOR D - PHASE 1B - DEMOLITION PLAN
P10-01	PLUMBING - LEVEL 01 - OVERALL - ENABLING PHASE - FLOOR PLAN
P10-02	PLUMBING - LEVEL 01 - SECTOR B - ENABLING PHASE - FLOOR PLAN
P10-03	PLUMBING - ROOF - OVERALL - ENABLING PHASE - FLOOR PLAN
P10-04	PLUMBING - ROOF - SECTOR B - ENABLING PHASE - FLOOR PLAN
P10-11	PLUMBING - LEVEL 01 - SECTOR A - PLAN
P10-20	PLUMBING - LEVEL 01 - OVERALL - PHASE 1B - FLOOR PLAN
P10-22	PLUMBING - LEVEL 01 - SECTOR B - PHASE 1B - FLOOR PLAN
P10-23	PLUMBING - LEVEL 01 - SECTOR C - PHASE 1B - FLOOR PLAN
P10-24	PLUMBING - LEVEL 01 - SECTOR D - PHASE 1B - FLOOR PLAN
P11-20	PLUMBING - ROOF - OVERALL - PHASE 1B - FLOOR PLAN
P11-22	PLUMBING - ROOF - SECTOR B - PHASE 1B - FLOOR PLAN
P11-23	PLUMBING - ROOF - SECTOR C - PHASE 1B - FLOOR PLAN
P11-24	PLUMBING - ROOF - SECTOR D - PHASE 1B - FLOOR PLAN
P30-00	PLUMBING RISERS
P50-00	PLUMBING DETAILS

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ISSUE CHART

1	FOR PROPOSAL - ENABLING & PH 1A	03/18/2022
ISSUE	DATE	
Job Number		023650.000
		TITLE

PLUMBING LEGENDS, INDEX AND NOTES

SHEET NUMBER

P00-01

PLUMBING FIXTURE CONNECTION SCHEDULE

NOTES:
1. REFER TO FLOOR PLANS FOR DRAIN CONNECTION AND PIPE SIZES.

DESIGNATION	FIXTURE DESCRIPTION	COLD WATER	HOT WATER	DRAIN	VENT	NOTES
P-13A	ROOF DRAIN	--	--	--	--	1.
P-15	DOWNSPOUT NOZZLE	--	--	--	--	1.
P-18	TRENCH DRAIN, HEAVY DUTY	--	--	--	--	1.
P-19A	HOSE BIBB (COLD WATER - TOILETS)	3/4"	--	--	--	1.
P-21A	WALL HYDRANT-NON-FREEZE, KEY OPERATED	3/4"	--			
P-21B	WALL HYDRANT-NON-FREEZE, BOX TYPE	3/4"	--			

DOMESTIC WATER HEATER SCHEDULE

GENERAL NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND ACCESSORIES.
2. PROVIDE 4" THICK REINFORCED CONCRETE PAD BELOW ALL FLOOR MOUNTED EQUIPMENT.

REMARKS:
A. HEATER WITH BRONZE CIRCULATING PUMP(S) AND STARTER(S).
B. CONDENSATE NEUTRALIZATION KIT.
C. MODBUS COMMUNICATIONS.
D. BMS GATEWAY TO LON OR BACNET.
E. ALARM BELL ON HEATER.
F. M7 CALIFORNIA CODE FIRING CONTROL SYSTEM.
G. CONCENTRIC VENT KIT WITH APPLICABLE WALL OR ROOF CAP.

DESIGNATION	SERVICE	MANUFACTURER	MODEL NUMBER	EWI' F	LWT' F	RECOVERY GPH	FUEL	INPUT BTU	KW	ELECTRICAL VOLTAGE	PHASE	STORAGE TANK MODEL #	GAL.	REMARKS
WH-1A				0	0			0	0	0 V	0		0	
WH-1B				0	0			0	0	0 V	0		0	
WH-2A				0	0			0	0	0 V	0		0	
WH-2B				0	0			0	0	0 V	0		0	

DOMESTIC HOT WATER EXPANSION TANK SCHEDULE

GENERAL NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND ACCESSORIES.
2. PROVIDE 4" THICK REINFORCED CONCRETE PAD BELOW ALL FLOOR MOUNTED EQUIPMENT.

REMARKS:
A. ASME RATED.

DESIGNATION	SERVICE	MANUFACTURER	MODEL NUMBER	TANK VOLUME GALLONS	CONSTRUCTION PRESSURE	SYSTEM OPERATING PRESSURE	SYSTEM CONNECTION SIZE	REMARKS
WH-1				10	0.00 psi	0.00 psi	3/4"	
WH-2				10	0.00 psi	0.00 psi	3/4"	

DOMESTIC HOT WATER MIXING VALVE SCHEDULE

GENERAL NOTES:
1. PROVIDE INLET AND OUTLET LIQUID FILLED TEMPERATURE GAUGES.
2. MOUNT AT 5'-0" ABOVE FINISHED FLOOR WITH WALL BRACKETS.

DESIGNATION	SERVICE	MANUFACTURER	MODEL NUMBER	DELIVERY TEMP.	MINIMUM FLOW-GPM	P.D. PSI/GPM	SIZE	ACCESSORIES	REMARKS
MV-1	DOMESTIC HOT WATER NORTH	LEONARD		0	0.01 GPM	0.00 psi			
MV-2	DOMESTIC HOT WATER SOUTH	LEONARD		0	0.00 GPM	0.00 psi			

PUMP SCHEDULE - PLUMBING SYSTEMS

GENERAL NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND ACCESSORIES.
2. PROVIDE 4" THICK REINFORCED CONCRETE PAD BELOW ALL FLOOR MOUNTED EQUIPMENT.
3. MOUNT HOT WATER RECIRCULATING PUMP AT 5'-0" ABOVE FINISHED FLOOR WITH WALL BRACKETS.

REMARKS:
A. SKID MOUNTED BOOSTER PACKAGE WITH GPM FLOW METER, CONTROL PANEL, AND VARIABLE FREQUENCY DRIVES.
B. BRONZE CONSTRUCTION FOR DOMESTIC WATER SERVICE.
C. EMERGENCY POWER.
D. STARTER BY DIVISION 26.
E. HCK SWITCH WITH CCT.
F. COPPER OR STAINLESS STEEL HEADERS.
G. LOW SUCTION CUTOFF.
H. HIGH PRESSURE CUTOFF.
I. STAINLESS STEEL LIFTING CABLES.
J. SUMP FLOOR MOUNTING KIT WITH ELBOW.
K. PUMP REMOVAL KIT.
L. FURNISH CONTROL PANEL WITH PUMP DISCONNECTS, PUMP STARTERS, ALTERNATOR, CONTROL TRANSFORMER, BAS CONNECTION, HIGH WATER ALARM & PUMP OPERATION FLOATS.
M. FURNISH REINFORCED FIBERGLASS PUMP SUMP BASIN WITH PUMP ACCESS COVERS, VENT CONNECTION & PUMP DISCHARGE CONNECTIONS.
N. ELEVATOR SUMP PUMP OIL SEPARATOR REQUIRED FOR HYDRAULIC FIRE SERVICE ELEVATORS. REFER TO SEPARATE SCHEDULE FOR SEPARATOR & PUMP CONTROLS.

DESIGNATION	MANUFACTURER	MODEL NUMBER	TYPE	GPM	SUCTION PRESSURE PSI	PUMP DISCHARGE PSI	TOTAL HEAD FT	MOTOR HP	RPM	ELECTRICAL VOLTAGE	PHASE	REMARKS
HWRP-1					0	0			0	0 V	0	
HWRP-2					0	0			0	0 V	0	

NATURAL GAS PRESSURE REGULATING VALVE SCHEDULE

GENERAL NOTES:
1. INTEGRAL EXTERNAL VENT LIMITER - "VENTLESS TYPE".
2. PROVIDE VENT TO OUTDOORS.
3. INSTALL AT DISTANCE FROM APPLIANCE AS RECOMMENDED BY APPLIANCE MANUFACTURER.
4. INSTALL IN ACCESSIBLE LOCATION.

DESIGNATION	SERVICE	MANUFACTURER	MODEL NUMBER	INLET PRESSURE	OUTLET PRESSURE (IN. WC.)	VALVE SIZE	CUBIC FEET/HR	REMARKS
GPRV-				0.00 psi	0	4"	0	
RTL-1				0.00 psi	0	1 1/2"	0	
WH-1				0.00 psi	0	1 1/2"	0	
WH-2				0.00 psi	0	1 1/2"	0	

HEAT TRACE SCHEDULE

GENERAL NOTES:
1. SEE SPECIFICATION FOR TYPE AND COMPONENTS.
2. SEE ELECTRICAL DRAWINGS FOR CIRCUITING.
3. INSTALL PER MANUFACTURERS REQUIREMENTS AND DRAWING DETAILS.
4. PROVIDE SELF REGULATING TYPE.
5. REFER TO SPECIFICATIONS FOR PIPE INSULATION REQUIREMENTS.

DESIGNATION	SERVICE	LOCATION	WATTS/ LF	ELECTRICAL VOLTAGE	PHASE	MAX CIRCUIT LENGTH	REMARKS
HT-1	GUTTER & DOWNSPOUT	NORTH FIELDHOUSE	8	--	--	--	--
HT-2	GUTTER & DOWNSPOUT	SOUTH FIELDHOUSE	8	--	--	--	--

FIRE COMPONENT SCHEDULE

DESIGNATION	DESCRIPTION
FP-12A	FIRE DEPARTMENT CONNECTION FREE STANDING - BY OTHERS

FIRE FLOW TEST SCHEDULE

TEST PERFORMED BY	DATE OF TEST	STATIC PRESSURE PSI	RESIDUAL PRESSURE PSI	FLOW GPM	SOURCE
JOHN WAMPLER COLUMBUS UTILITIES	12-14-21 1:20 PM	HYDRANT #1134 (NW) 71 PSI	HYDRANT # 1134 (NW) 60 PSI	HYDRANT #1133 (NE) 1250 GPM, PITOT 65	BUILDING LOOP FIRE MAIN

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1 FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022
Job Number 023650.000
TITLE

PLUMBING
SCHEDULES

SHEET NUMBER

P00-02

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ISSUE CHART



1 FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

SHEET

Job Number

023650.000

TITLE

PLUMBING - LEVEL 01

- OVERALL -

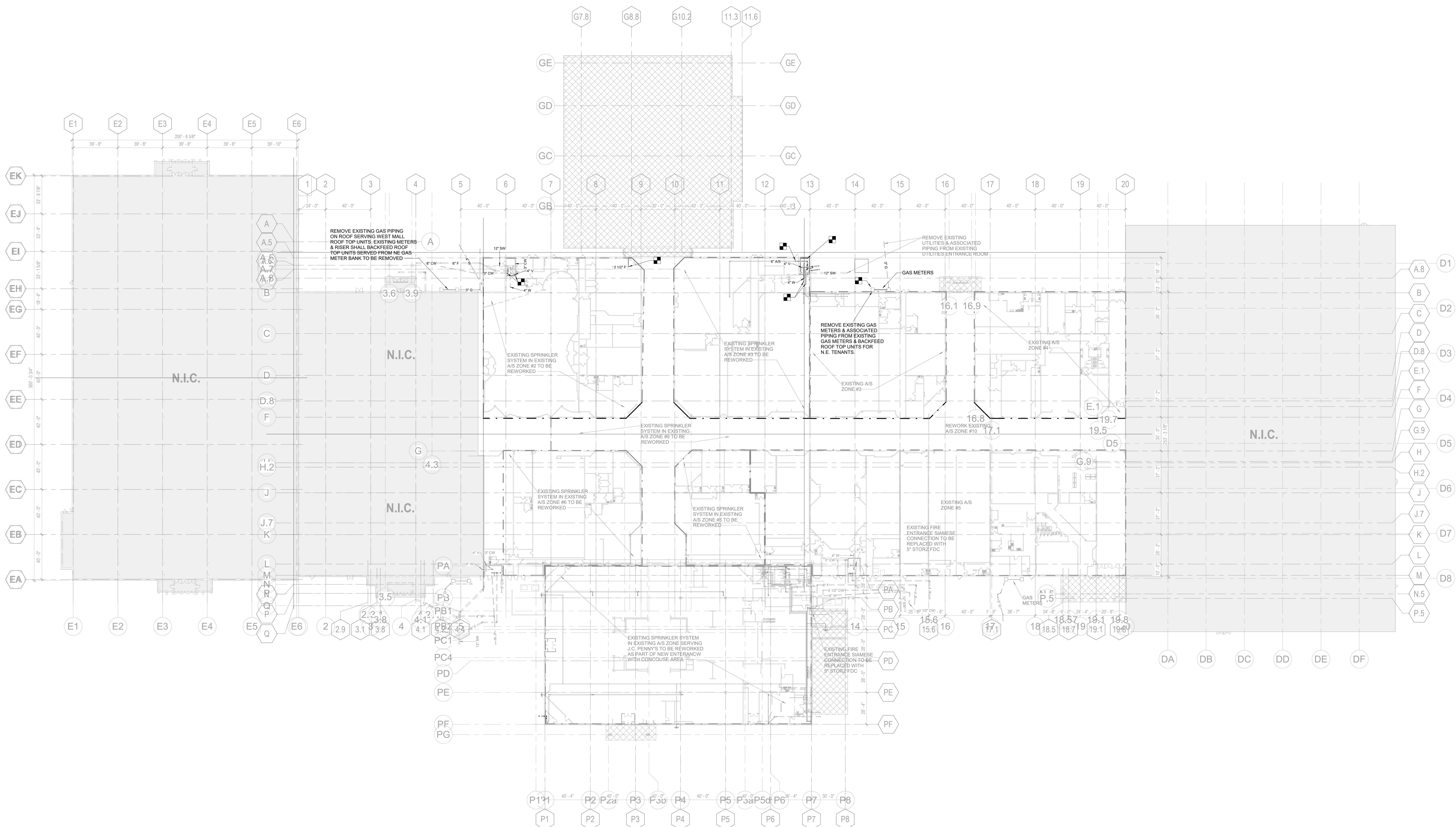
ENABLING PHASE -

DEMOLITION PLAN

SHEET NUMBER

P01-01

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1 PLUMBING - LEVEL 01 - OVERALL - ENABLING PHASE - DEMOLITION PLAN

1/32" = 1'-0"

DEMOLITION LEGEND	
SYMBOL	DESCRIPTION
—	EXISTING TO REMAIN
---	EXISTING TO BE REMOVED
■	DEMO TO THIS POINT

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The diagram shows a cross-section of a cell wall with four layers labeled A, B, C, and D. Layer B is the middle layer and is shaded. Layer A is above B, layer C is below B, and layer D is below C. The layers are of different thicknesses, with layer B being the thickest.



	FOR PROPOSAL - ENABLING & PH. 1A	03/18/2022
PK	ISSUE	DATE


01-02



ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022



- (7) EXISTING TO REMAIN. NO GAS NEEDED.
- (8) EXISTING MECHANICAL EQUIPMENT TO BE REPLACED WITH AHUI-1 (80 CFH), CONNECT AND PERDUITE EXISTING GAS TO NORTHWEST GAS METER BANK (PARKS METER). SEE SHEET M12-22.
- (9) EXISTING MECHANICAL EQUIPMENT TO BE REPLACED WITH AHUI-1 (80 CFH), CONNECT AND PERDUITE EXISTING GAS TO NORTHWEST GAS METER BANK (OWNER METER). SEE SHEET M12-22.
- (10) EXISTING MECHANICAL EQUIPMENT TO BE REPLACED WITH AHUI-1 (80 CFH), CONNECT AND PERDUITE EXISTING GAS TO NORTHWEST GAS METER BANK (PARKS METER). SEE SHEET M12-22.
- (11) EXISTING MECHANICAL EQUIPMENT TO BE REPLACED WITH AHUI-1 (120 CFH), CONNECT AND PERDUITE EXISTING GAS TO NORTHWEST GAS METER BANK (OWNER METER). SEE SHEET M12-22.
- (12) EXISTING MECHANICAL EQUIPMENT TO BE REPLACED WITH AHUI-1 (80 CFH), CONNECT AND PERDUITE EXISTING GAS TO NORTHWEST GAS METER BANK (OWNER METER). SEE SHEET M12-22.
- (13) EXISTING MECHANICAL EQUIPMENT TO BE REPLACED WITH AHUI-1 (80 CFH), CONNECT AND PERDUITE EXISTING GAS TO NORTHWEST GAS METER BANK (PARKS METER). SEE SHEET M12-22.
- (14) EXISTING MECHANICAL EQUIPMENT TO BE REPLACED WITH AHUI-1 (80 CFH), CONNECT AND PERDUITE EXISTING GAS TO NORTHWEST GAS METER BANK (PARKS METER). SEE SHEET M12-22.
- (15) EXISTING MECHANICAL EQUIPMENT TO BE REPLACED WITH AHUI-1 (80 CFH), CONNECT AND PERDUITE EXISTING GAS TO NORTHWEST GAS METER BANK (PARKS METER). SEE SHEET M12-22.
- (16) EXISTING MECHANICAL EQUIPMENT TO BE REPLACED WITH AHUI-1 (80 CFH), CONNECT AND PERDUITE EXISTING GAS TO NORTHWEST GAS METER BANK (PARKS METER). SEE SHEET M12-22.
- (17) EXISTING MECHANICAL EQUIPMENT TO BE REPLACED WITH AHUI-1 (80 CFH), CONNECT AND PERDUITE EXISTING GAS TO NORTHWEST GAS METER BANK (PARKS METER). SEE SHEET M12-22.
- (18) EXISTING MECHANICAL EQUIPMENT TO BE REPLACED WITH AHUI-1 (80 CFH), CONNECT AND PERDUITE EXISTING GAS TO NORTHWEST GAS METER BANK (PARKS METER). SEE SHEET M12-22.
- (19) EXISTING MECHANICAL EQUIPMENT TO BE REPLACED WITH AHUI-1 (80 CFH), CONNECT AND PERDUITE EXISTING GAS TO NORTHWEST GAS METER BANK (PARKS METER). SEE SHEET M12-22.
- (20) EXISTING MECHANICAL EQUIPMENT TO BE REPLACED WITH AHUI-1 (80 CFH), CONNECT AND PERDUITE EXISTING GAS TO NORTHWEST GAS METER BANK (PARKS METER). SEE SHEET M12-22.

DEMOLITION LEGEND	
SYMBOL	DESCRIPTION
_____	EXISTING TO REMAIN
_____	EXISTING TO BE REMOVED
	DEMO TO THIS POINT

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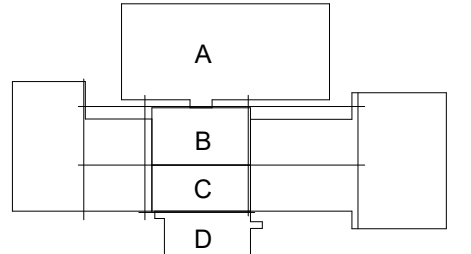
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ISSUE CHART

NO.	DESCRIPTION	DATE
1	FOR PROPOSAL - ENABLING & PHASE 1A	03/18/2022

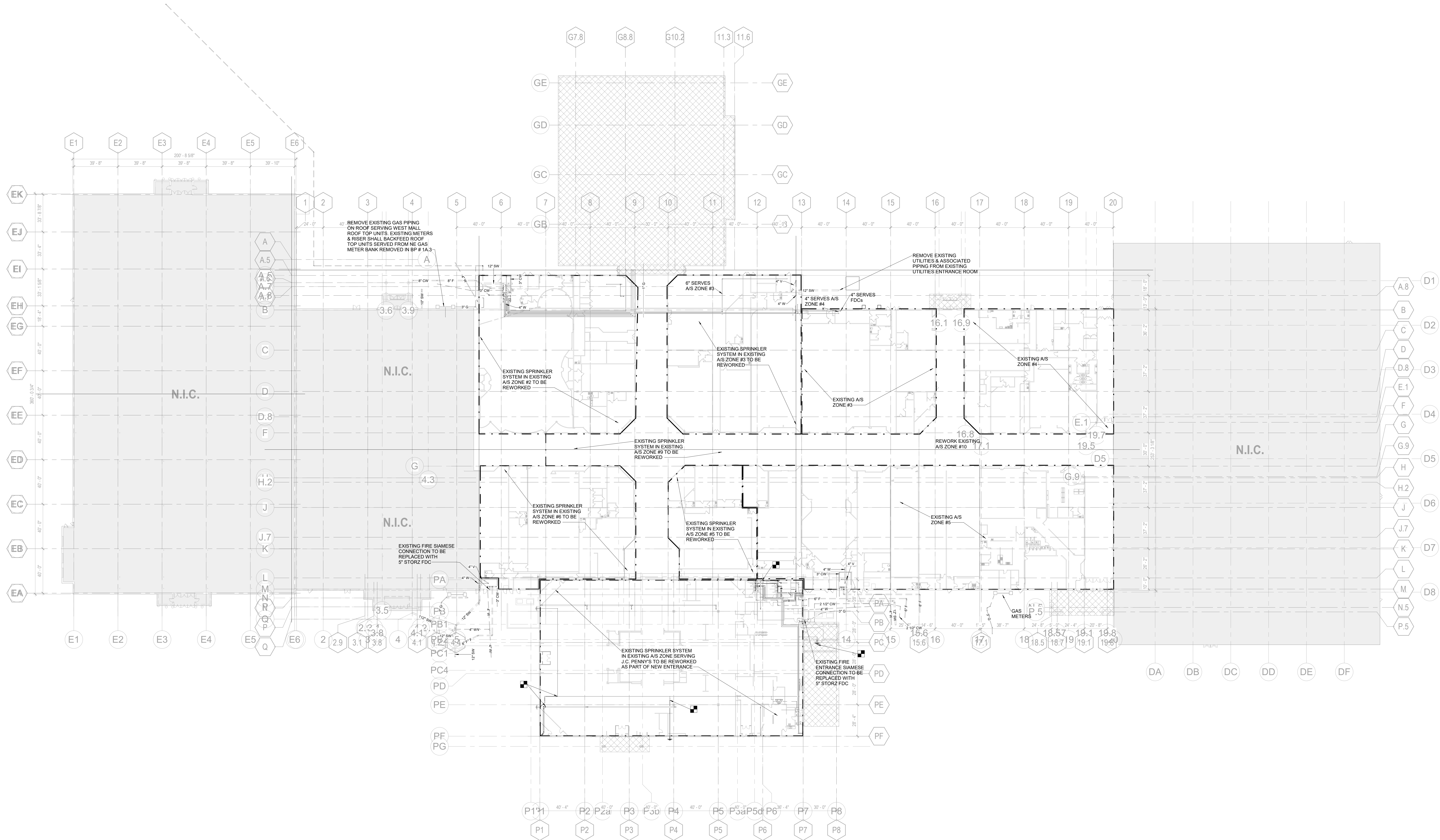
Job Number 023650.000

TITLE

PLUMBING - LEVEL 01
- OVERALL - PHASE 1B
- DEMOLITION PLAN

SHEET NUMBER

P01-20



1 PLUMBING - LEVEL 01 - OVERALL - PHASE 1B - DEMOLITION PLAN

1/32" = 1'-0"

DEMOLITION LEGEND	
SYMBOL	DESCRIPTION
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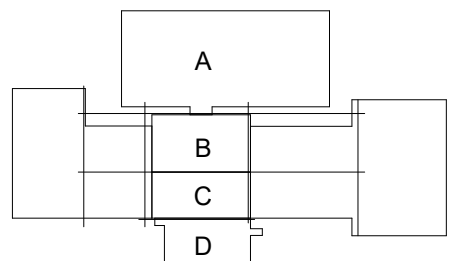
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DEMOLITION LEGEND

SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	DEMO TO THIS POINT

1 FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022
SHEET 1 OF 1

Job Number 023650.000
TITLE

PLUMBING - LEVEL 01
- SECTOR B - PHASE
1B -DEMOLITION PLAN

SHEET NUMBER

P01-22

1 PLUMBING - LEVEL 01 - SECTOR B - PHASE 1B - DEMOLITION PLAN

1/8" = 1'-0"

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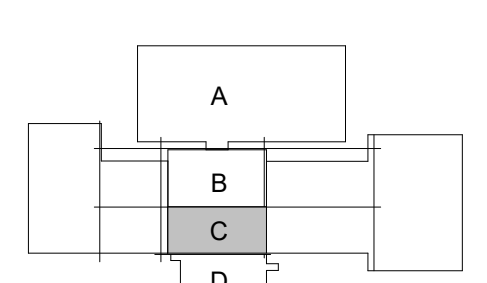


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DEMOLITION LEGEND

SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	DEMO TO THIS POINT

1 PLUMBING - LEVEL 01 - SECTOR C - PHASE 1B - DEMOLITION PLAN

1/8" = 1'-0"

EXISTING SPRINKLER
SYSTEM IN EXISTING
AIS ZONE #6 TO BE
REWORKED

EXISTING SPRINKLER
SYSTEM IN EXISTING
AIS ZONE #6 TO BE
REWORKED

EXISTING SPRINKLER
SYSTEM IN EXISTING
AIS ZONE #5 TO BE
REWORKED

EXISTING AIS
ZONE #5

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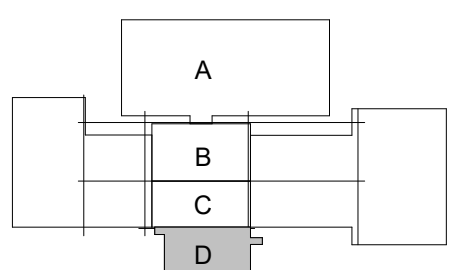
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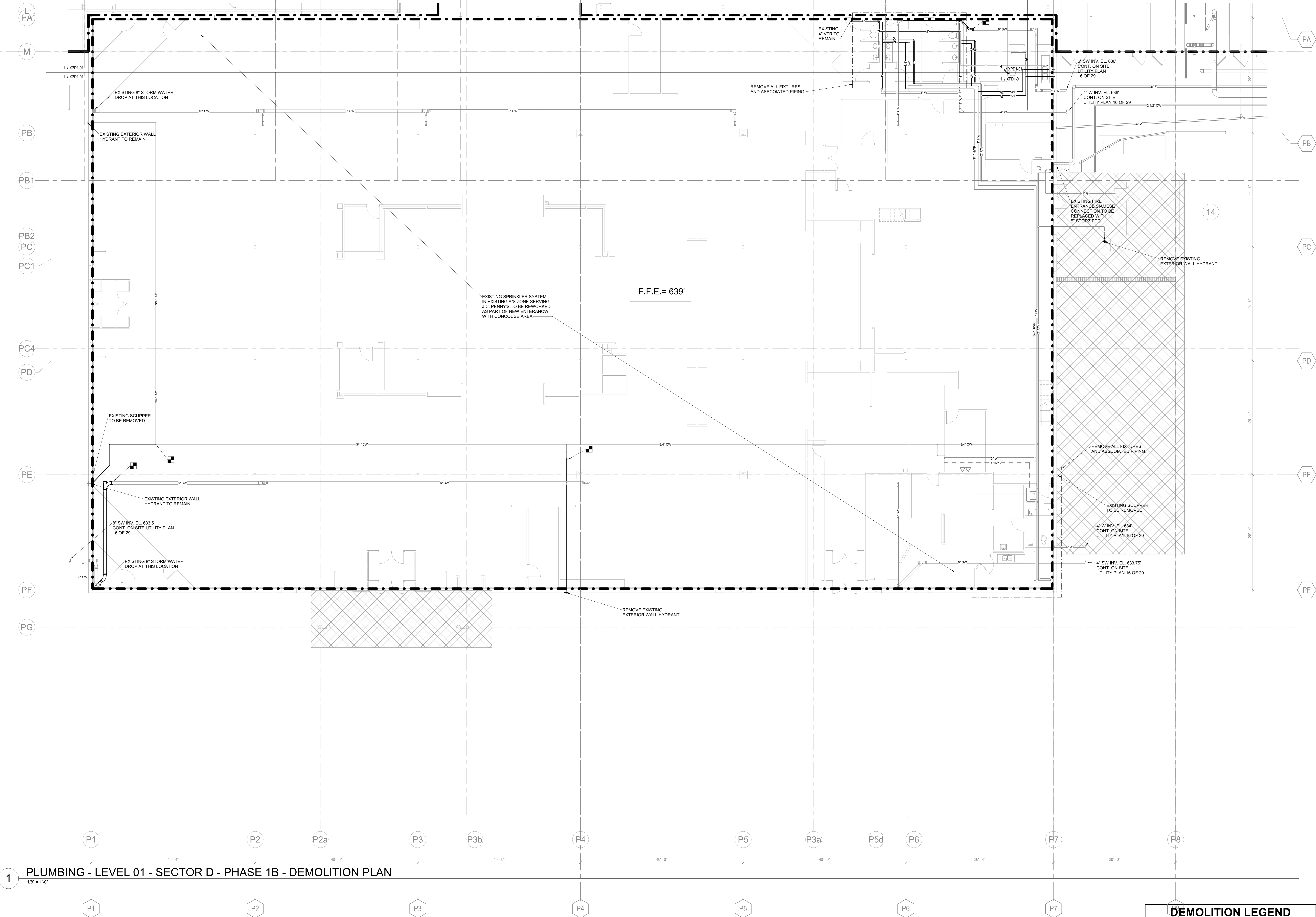
1	FOR PROPOSAL - ENABLING & PHASE 1A	03/18/2022
DATE	ISSUE	DATE
Job Number	023650.000	TITLE

PLUMBING - LEVEL 01
- SECTOR D - PHASE
1B - DEMOLITION PLAN

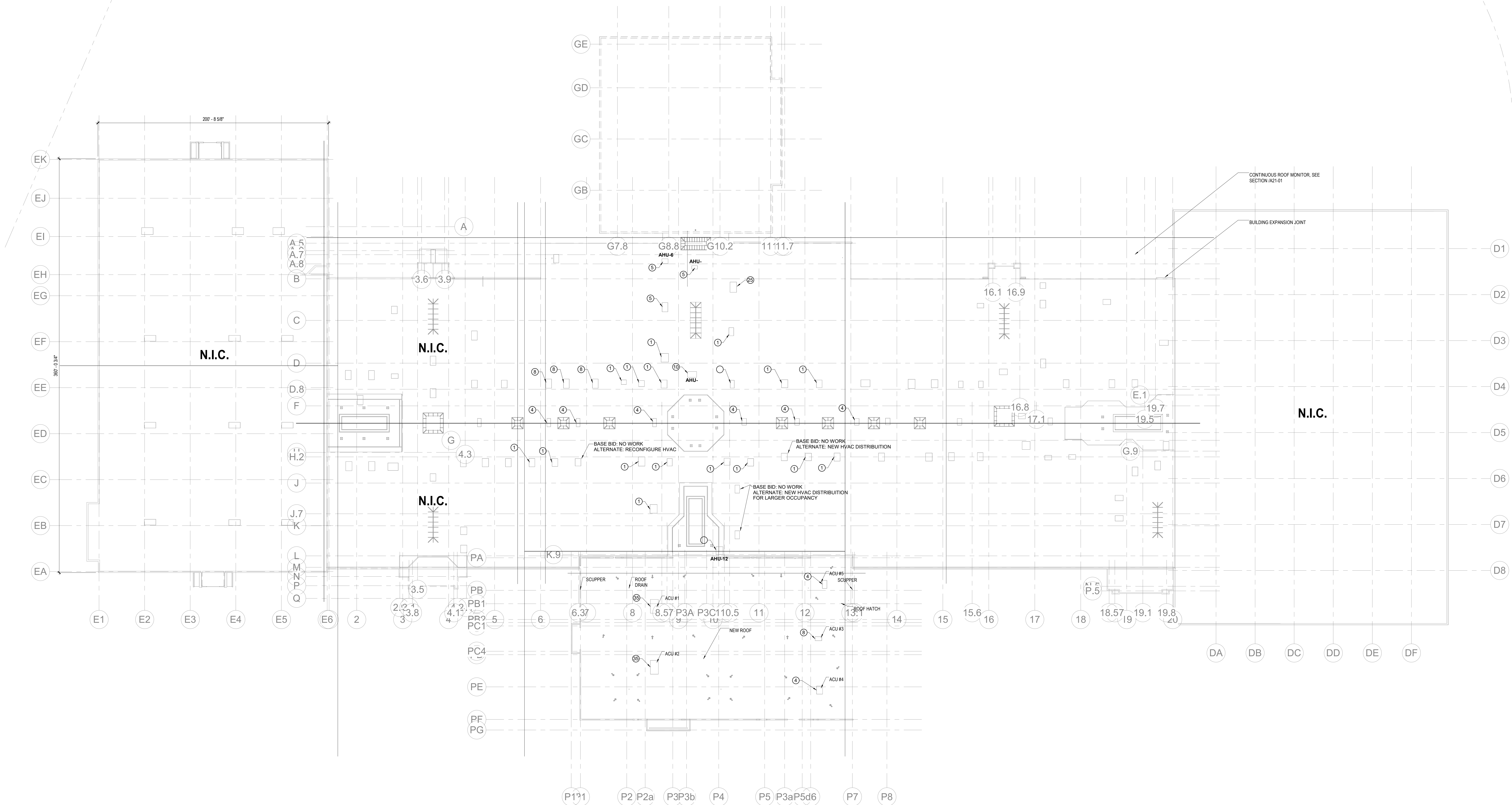
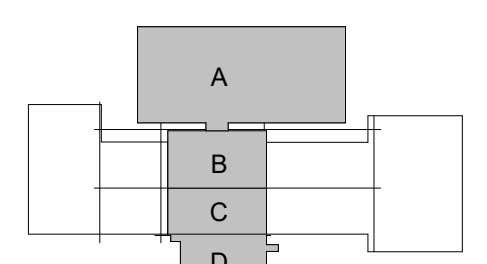
SHEET NUMBER

P01-24

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1 PLUMBING - LEVEL 01 - SECTOR D - PHASE 1B - DEMOLITION PLAN
1/8" = 1'-0"



1 PLUMBING - ROOF - OVERALL - PHASE 1B - DEMOLITION PLAN
1/32" = 1'-0"

SHEET KEYED NOTES

- ① EXISTING TO REMAIN
- ② 1.5 TON UNIT, 560 CFM, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ③ 2 TON UNIT, 750 CFM, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ④ 3 TON UNIT, 80 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑤ 4 TON UNIT, 80 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑥ 5 TON UNIT, 120 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑦ 7 TON UNIT, 150/105 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑧ 10 TON UNIT, 200/140 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑨ 12 TON UNIT, 250/175 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑩ 15 TON UNIT, 300/210 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑪ 20 TON UNIT, 400/280 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑫ 25 TON UNIT, 500/350 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑬ 30 TON UNIT, 600/420 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑭ AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
- ⑮ AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
- ⑯ AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
- ⑰ AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
- ⑱ AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
- ⑲ AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
- ⑳ AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.

DEMOLITION LEGEND

SYMBOL	DESCRIPTION
—	EXISTING TO REMAIN
—	EXISTING TO BE REMOVED
■	DEMO TO THIS POINT

CONSULTANTS

STRAND ASSOCIATES
629 WASHINGTON ST.
COLUMBUS, IN 47201
STRUCTURAL
SSR, INC.
2995 SIDCO DR.
NASHVILLE, TN 37204
MEP
SSR, INC.
2995 SIDCO DR.
NASHVILLE, TN 37204
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MKS
200 S MERIDIAN ST.
INDIANAPOLIS, IN 46225

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CITY OF COLUMBUS
123 WASHINGTON ST.
COLUMBUS, IN 47201
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FAIR OAKS MALL
2080 20TH ST.
COLUMBUS, IN 47201
CONTRACTOR
TAYLOR BROS. CONSTRUCTION CO., INC.
4655 MIDDLE RD.
COLUMBUS, IN 47203

PROJECT

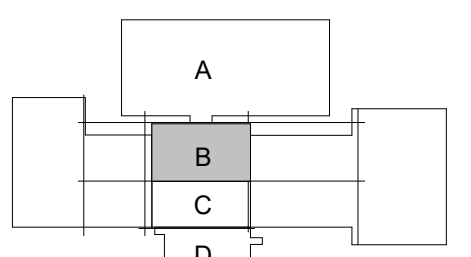
NEXUSPARK



City of Columbus

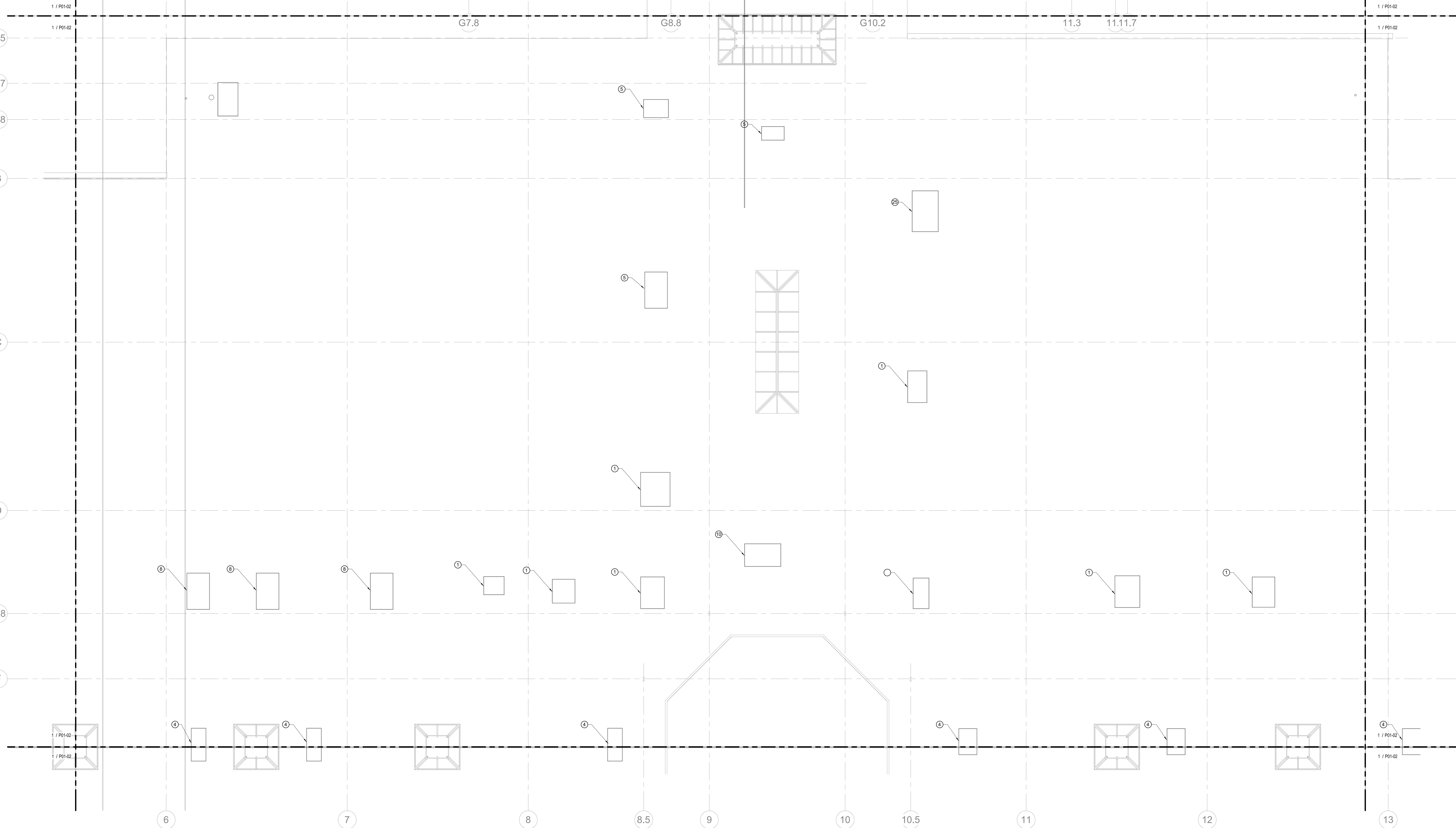
123 WASHINGTON ST.
COLUMBUS, IN 47201

KEY PLAN



ISSUE CHART

ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022



1 PLUMBING - ROOF - SECTOR B - PHASE 1B - DEMOLITION PLAN

1/8" = 1'-0"

SHEET KEYED NOTES

- ① EXISTING TO REMAIN
- ② 1.5 TON UNIT, 560 CFM, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ③ 2 TON UNIT, 750 CFM, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ④ 3 TON UNIT, 80 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑤ 4 TON UNIT, 80 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑥ 5 TON UNIT, 120 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑦ 7 TON UNIT, 150/105 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑧ 10 TON UNIT, 200/140 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑨ 12 TON UNIT, 250/175 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑩ 35 TON UNIT, 600/425 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑪ AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
- ⑫ AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
- ⑬ AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
- ⑭ AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
- ⑮ AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
- ⑯ AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
- ⑰ AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.

DEMOLITION LEGEND

SYMBOL	DESCRIPTION
○	EXISTING TO REMAIN
⊗	EXISTING TO BE REMOVED
⊠	DEMO TO THIS POINT

1 FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022
SHEET 1 OF 1
Job Number 023650.000
TITLE

PLUMBING - ROOF - SECTOR B - PHASE 1B - DEMOLITION PLAN

SHEET NUMBER

P02-22

CONSULTANTS

STRAND ASSOCIATES

629 WASHINGTON ST.
COLUMBUS, IN 47201

STRUCTURAL

SSR, INC.

2995 SIDCO DR.
NASHVILLE, TN 37204

MEP

SSR, INC.

2995 SIDCO DR.
NASHVILLE, TN 37204

LANDSCAPING

MKSX

200 S MERIDIAN ST.
INDIANAPOLIS, IN 46225

OWNER

CITY OF COLUMBUS

123 WASHINGTON ST.
COLUMBUS, IN 47201

FACILITY

FAIR OAKS MALL

2880 25TH ST.
COLUMBUS, IN 47201

CONTRACTOR

TAYLOR BROS. CONSTRUCTION CO., INC.

4655 MIDDLE RD.
COLUMBUS, IN 47203

PROJECT

NEXUSPARK

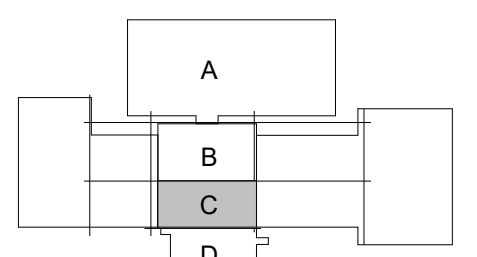
ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022



City of Columbus

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COLUMBUS, IN 47201

KEYPLAN



ISSUE CHART

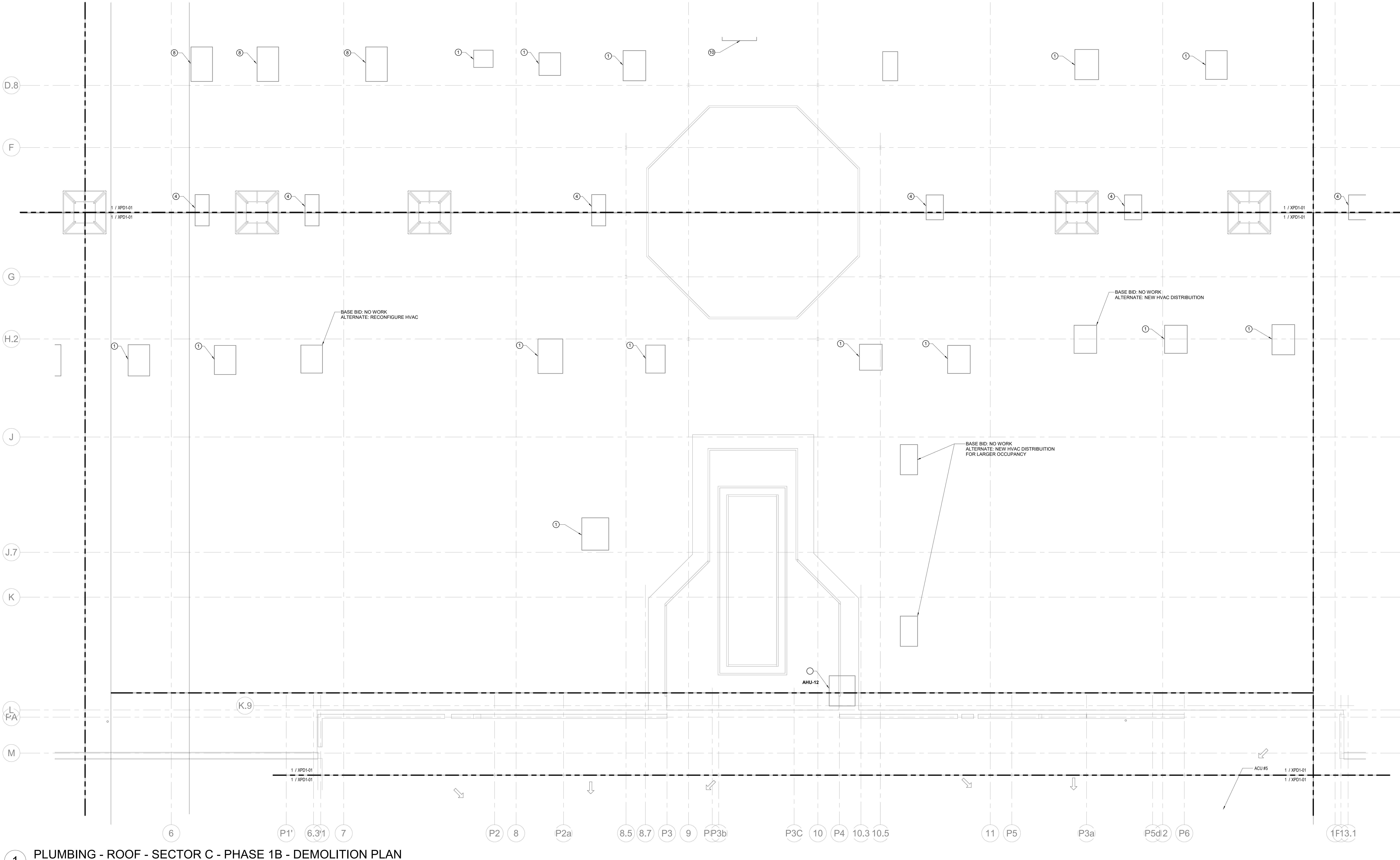
1 FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022
SHEET 1 OF 1
Job Number 023650.000
TITLE

PLUMBING - ROOF -
SECTOR C - PHASE 1B
- DEMOLITION PLAN

SHEET NUMBER

P02-23

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1 PLUMBING - ROOF - SECTOR C - PHASE 1B - DEMOLITION PLAN

1/8" = 1'-0"

SHEET KEYED NOTES

- ① EXISTING TO REMAIN
- ② 1.5 TON UNIT, 560 CFM, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ③ 2 TON UNIT, 750 CFM, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ④ 3 TON UNIT, 80 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑤ 4 TON UNIT, 80 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑥ 6 TON UNIT, 120 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑦ 7.5 TON UNIT, 150/105 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑧ 10 TON UNIT, 200/140 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑨ 12 TON UNIT, 250/175 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑩ 12.5 TON UNIT, 250/175 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑪ 35 TON UNIT, 600/425 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑫ AHU-4 SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
- ⑬ AHU-4 SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
- ⑭ AHU-4 SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
- ⑮ AHU-4 SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
- ⑯ AHU-4 SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
- ⑰ AHU-4 SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.

DEMOLITION LEGEND

SYMBOL	DESCRIPTION
—	EXISTING TO REMAIN
—	EXISTING TO BE REMOVED
■	DEMO TO THIS POINT

CONSULTANTS

STRAND ASSOCIATES
629 WASHINGTON ST.
COLUMBUS, IN 47201
STRUCTURAL
SSR, INC.
2995 SIDCO DR.
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MEP
SSR, INC.
2995 SIDCO DR.
NASHVILLE, TN 37204
LANDSCAPING
MKSK
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OWNER
CITY OF COLUMBUS
123 WASHINGTON ST.
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2880 20TH ST.
COLUMBUS, IN 47201
CONTRACTOR
TAYLOR BROS. CONSTRUCTION CO., INC.
4655 MIDDLE RD.
COLUMBUS, IN 47203

PROJECT

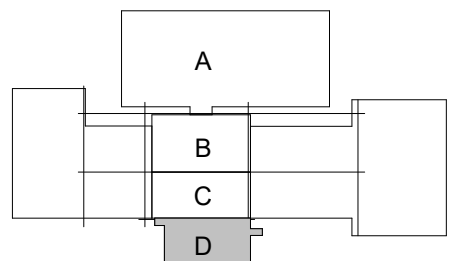
NEXUSPARK



City of Columbus

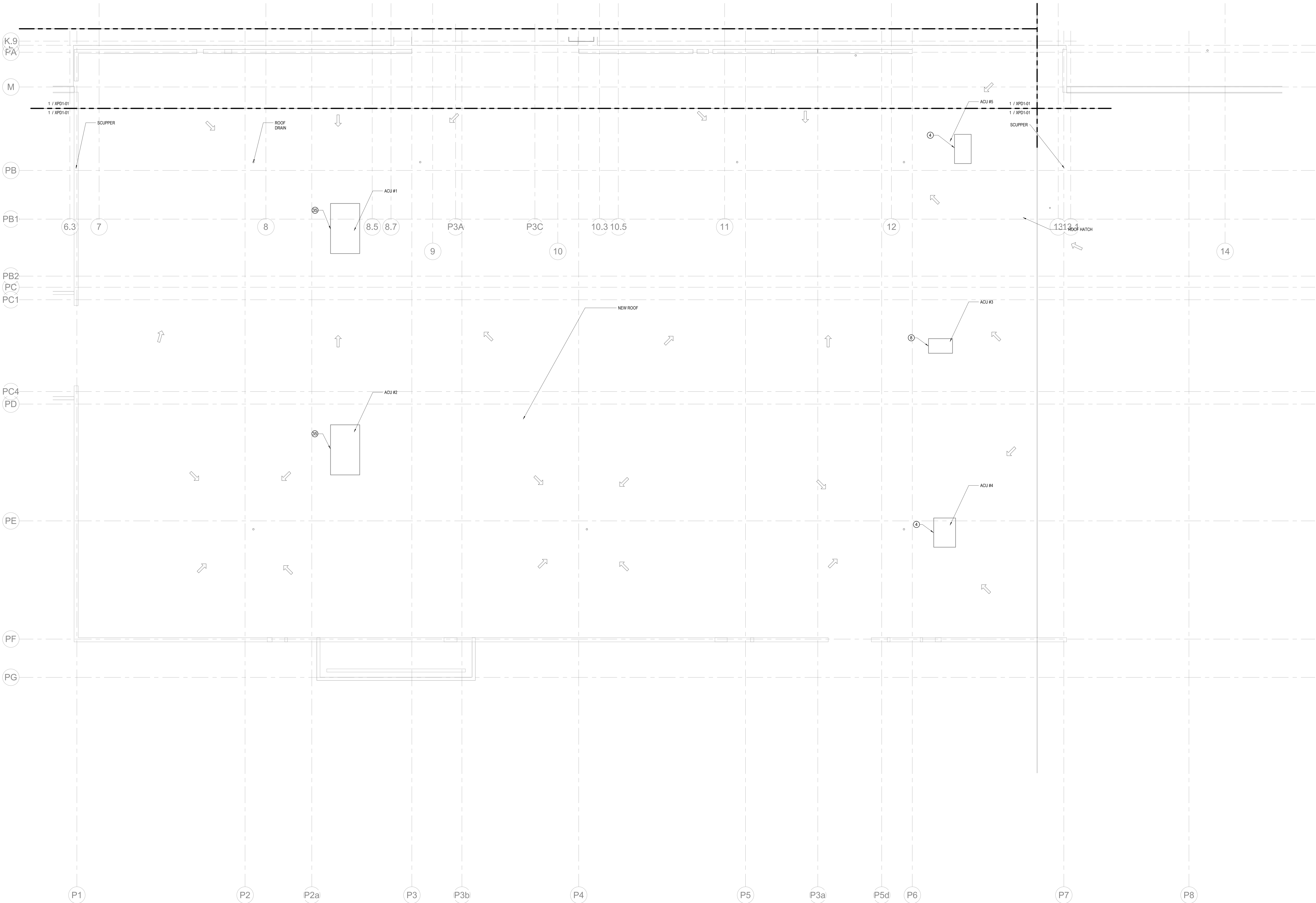
123 WASHINGTON ST.
COLUMBUS, IN 47201

KEYPLAN



ISSUE CHART

ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022



1 PLUMBING - ROOF - SECTOR D - PHASE 1B - DEMOLITION PLAN

1/8" = 1'-0"

SHEET KEYED NOTES

- ① EXISTING TO REMAIN
- 1.5 TON UNIT, 560 CFM, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- 2 TON UNIT, 750 CFM, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- 3 TON UNIT, 80 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- 4 TON UNIT, 80 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- 5 TON UNIT, 120 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- 7 TON UNIT, 750 CFM, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- 7.5 TON UNIT, 150/105 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- 10 TON UNIT, 200/140 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- 12 TON UNIT, 750 CFM, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
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- ⑭ AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
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- ⑰ AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.

DEMOLITION LEGEND

SYMBOL	DESCRIPTION
○	EXISTING TO REMAIN
—	EXISTING TO BE REMOVED
■	DEMO TO THIS POINT

1 FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022
SHEET 1 OF 1
Job Number 023650.000

PLUMBING - ROOF -
SECTOR D - PHASE 1B
- DEMOLITION PLAN

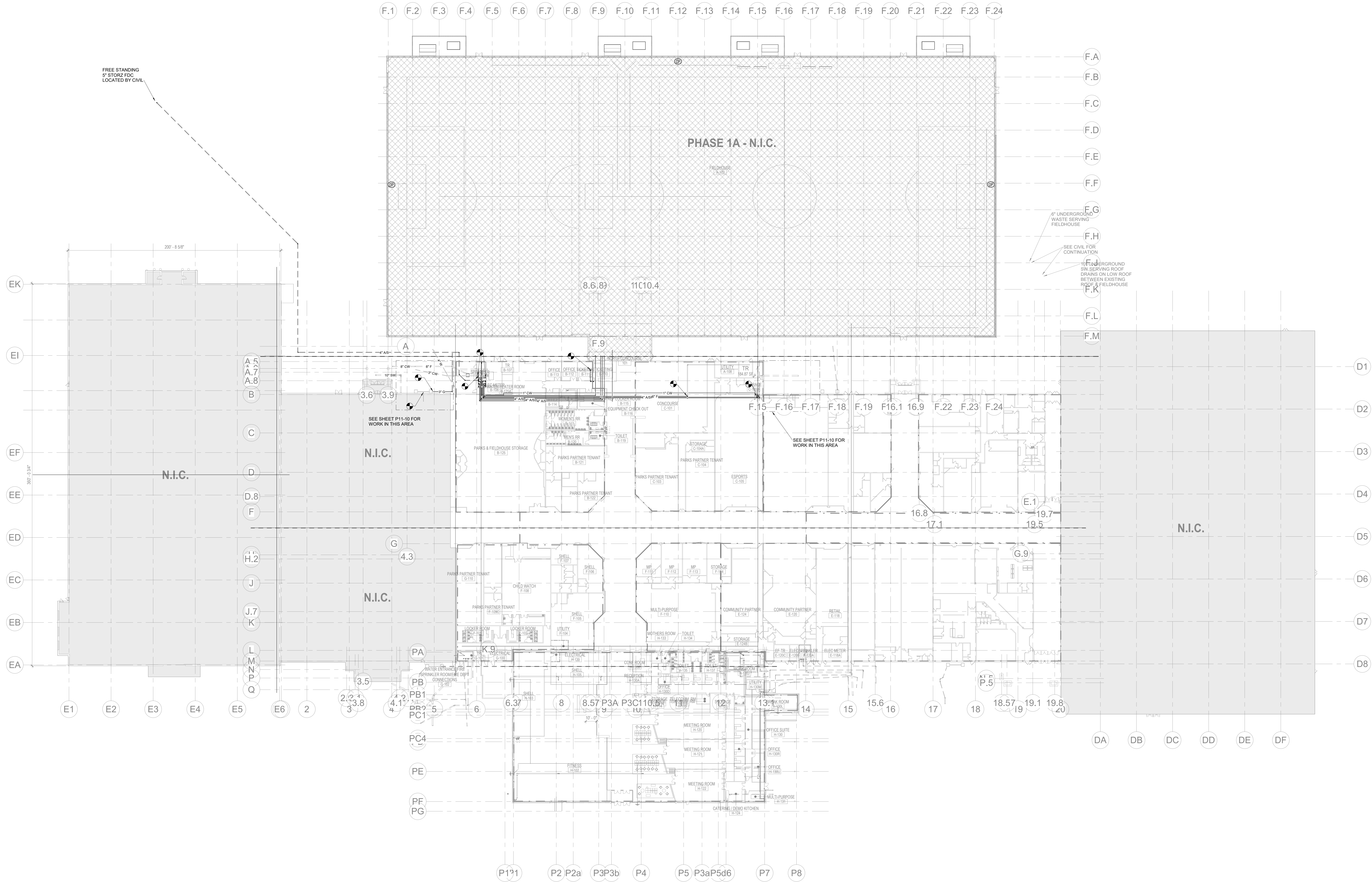
SHEET NUMBER

P02-24

5/19/2022 4:15:52 AM Autodesk Docs/Columbus - NewPlumbing - PLUMB - 6/10/2022 4:15:52 AM

1 PLUMBING - LEVEL 01 - OVERALL - ENABLING PHASE - FLOOR PLAN

1/32" = 1'-0"



RENOVATION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	CONNECT TO EXISTING AT THIS POINT

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
312.755.0710
312.755.0775
www.perkinswill.com

CONSULTANTS

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629 WASHINGTON ST.
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STRUCTURAL
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2995 SIDCO DR.
NASHVILLE, TN 37204
MEP
SSR, INC.
2995 SIDCO DR.
NASHVILLE, TN 37204
MEP
LANDSCAPE
MKSK
200 S MERIDIAN ST.
INDIANAPOLIS, IN 46225

OWNER

CITY OF COLUMBUS
123 WASHINGTON ST.
COLUMBUS, IN 47201
FACILITY
FAIR OAKS MALL
2880 20TH ST.
COLUMBUS, IN 47201
CONTRACTOR
TAYLOR BROS. CONSTRUCTION CO., INC.
4655 MIDDLE RD.
COLUMBUS, IN 47203

PROJECT

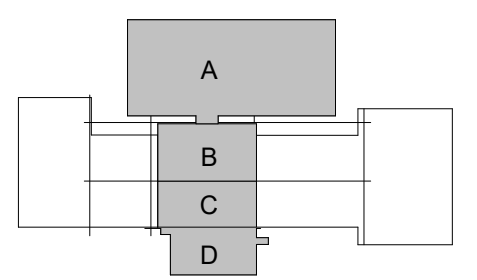
NEXUSPARK

columbusindiana
Unexpected. Unforgettable.

City of Columbus

123 WASHINGTON ST.
COLUMBUS, IN 47201

KEYPLAN



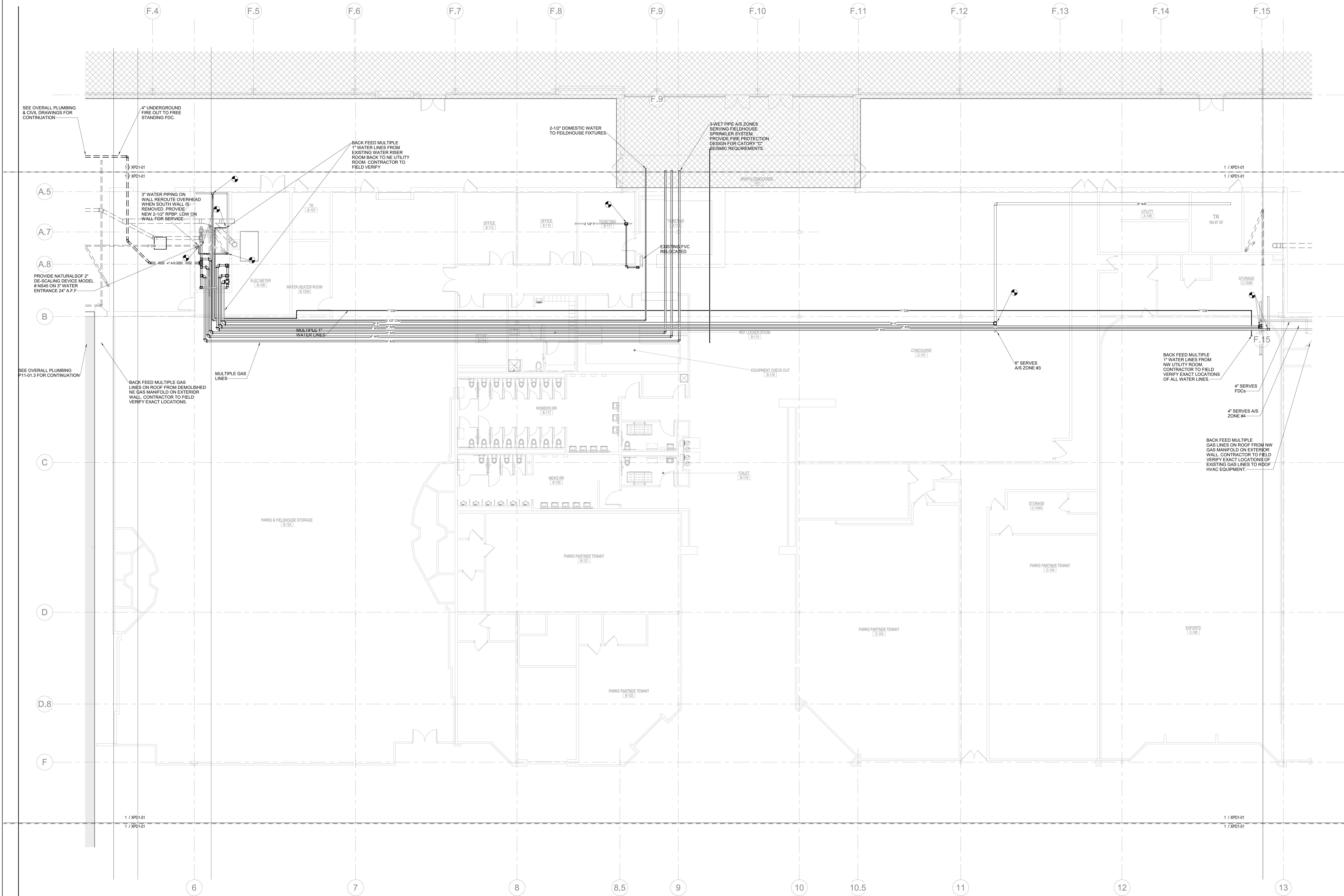
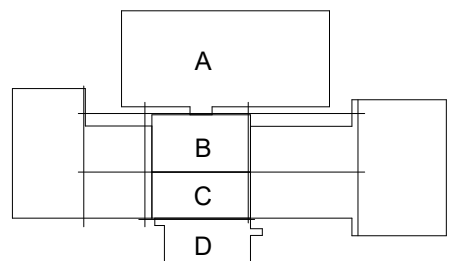
ISSUE CHART

ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

1 FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022
SHEET 1 OF 1
Job Number 023650.000
TITLE
PLUMBING - LEVEL 01
- OVERALL -
ENABLING PHASE -
FLOOR PLAN
SHEET NUMBER

P10-01

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1 PLUMBING - LEVEL 01 - SECTOR B - ENABLING PHASE - FLOOR PLAN
1/8" = 1'-0"

RENOVATION LEGEND	
SYMBOL	DESCRIPTION
—	EXISTING TO REMAIN
—	NEW CONSTRUCTION
⬤	CONNECT TO EXISTING AT THIS POINT

CONSULTANTS

STRAND ASSOCIATES

629 WASHINGTON ST.
COLUMBUS, IN 47201

STRUCTURAL

SSR, INC.

2995 SIDCO DR.
NASHVILLE, TN 37204

MEP

SSR, INC.

2995 SIDCO DR.
NASHVILLE, TN 37204

LANDSCAPING

MKS

200 S MERIDIAN ST.
INDIANAPOLIS, IN 46225

OWNER

CITY OF COLUMBUS

123 WASHINGTON ST.
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FACILITY

FAIR OAKS MALL

2880 20TH ST.
COLUMBUS, IN 47201

CONTRACTOR

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4666 MIDDLE RD.
COLUMBUS, IN 47203

PROJECT

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unexpected.unforgettable.

City of Columbus

123 WASHINGTON ST.

COLUMBUS, IN 47201

KEY PLAN

A

B

C

D



ISSUE CHART

RENOVATION LEGEND

SYMBOL

DESCRIPTION

EXISTING TO REMAIN

NEW CONSTRUCTION

CONNECT TO EXISTING AT THIS POINT

FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

ISSUE

Job Number

023650.000

TITLE

PLUMBING - ROOF -

SECTOR B - ENABLING

PHASE - FLOOR PLAN

SHEET NUMBER

P10-04

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SECTOR B - ENABLING

PHASE - FLOOR PLAN

SHEET NUMBER

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SECTOR B - ENABLING

PHASE - FLOOR PLAN

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SECTOR B - ENABLING

PHASE - FLOOR PLAN

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PHASE - FLOOR PLAN

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SECTOR B - ENABLING

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SECTOR B - ENABLING

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SECTOR B - ENABLING

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SECTOR B - ENABLING

PHASE - FLOOR PLAN

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SECTOR B - ENABLING

PHASE - FLOOR PLAN

SHEET NUMBER

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SECTOR B - ENABLING

PHASE - FLOOR PLAN

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SECTOR B - ENABLING

PHASE - FLOOR PLAN

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SECTOR B - ENABLING

PHASE - FLOOR PLAN

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SECTOR B - ENABLING

PHASE - FLOOR PLAN

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SECTOR B - ENABLING

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PLUMBING - ROOF -

SECTOR B - ENABLING

PHASE - FLOOR PLAN

SHEET NUMBER

P10-0

CONSULTANTS

STRAND ASSOCIATES
629 WASHINGTON ST.
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STRUCTURAL
SSR, INC.
2965 SIDCO DR.
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MEP
SSR, INC.
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NASHVILLE, TN 37204
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OWNER

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CONTRACTOR

TAYLOR BROS. CONSTRUCTION CO., INC.
4855 MIDDLE RD.
COLUMBUS, IN 47203

PROJECT

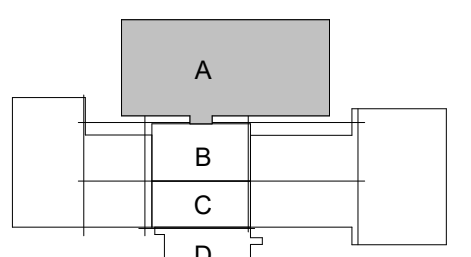
NEXUSPARK



City of Columbus

123 WASHINGTON ST.
COLUMBUS, IN 47201

KEY PLAN



ISSUE CHART

ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

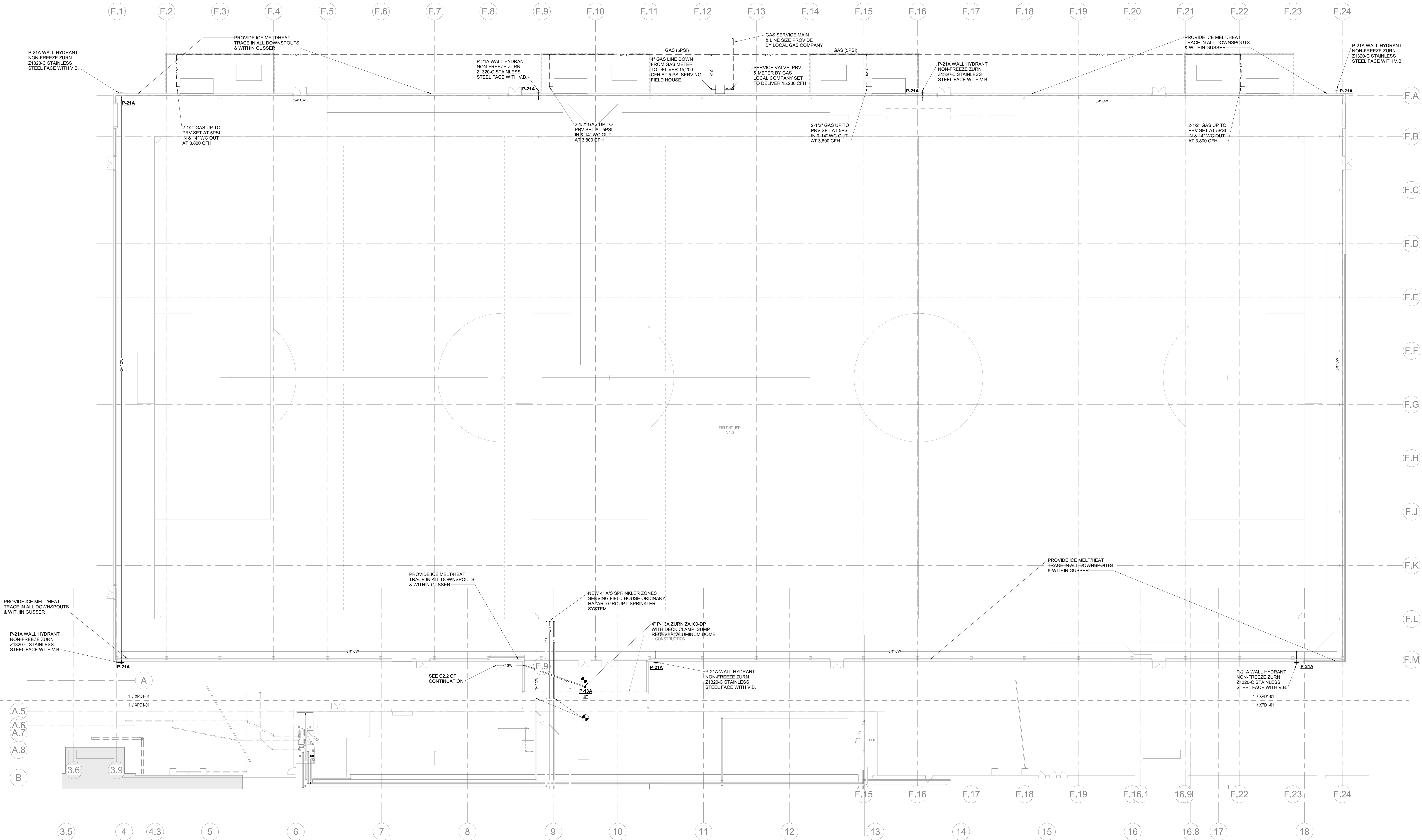
RENOVATION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	CONNECT TO EXISTING AT THIS POINT

1	FOR PROPOSAL - ENABLING & PHASE 1A	03/18/2022
SHEET	1	10/1
Job Number	023650.000	TITLE

PLUMBING - LEVEL 01
- SECTOR A - PLAN

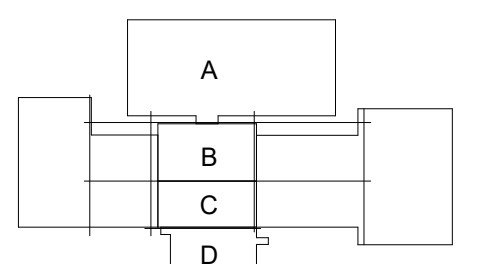
SHEET NUMBER

P10-11



1 PLUMBING - LEVEL 01 - SECTOR A - PLAN

1/16" = 1'-0"



RENOVATION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	CONNECT TO EXISTING AT THIS POINT

F.1 F.2 F.3 F.4 F.5 F.6 F.7 F.8 F.9 F.10 F.11 F.12 F.13 F.14 F.15 F.16 F.17 F.18 F.19 F.20 F.21 F.22 F.23 F.24

F.A
F.B
F.C
F.D
F.E
F.F
F.G
F.H
F.J
F.K
F.L
F.M

D1
D2
D3
D4
D5
D6
D7
D8

DA DB DC DD DE DF

P1'1 P2 P2a P3 P3a P3b P4 P5 P3a P5d6 P7 P8

FREE STANDING
5" STORZ FDC
LOCATED BY CIVIL

PHASE 1A - N.I.C.

N.I.C.

N.I.C.

N.I.C.

N.I.C.

EK
EI
EF
EE
ED
EC
EB
EA

A.5
A.7
A.8
B
C
D
D.8
F
G
H.2
J
J.7
K
L
M
N
P
Q

E1 E2 E3 E4 E5 E6 2

3.5
2.2
3.8
4.1
4

PA
PB
PB1
PC1
PC4
PE
PF
PG

6
6.37
8
8.57
P3A
P3C110.5

12
13
14
15
15.6
16
17
18
18.57
19
19.1
19.8
20

1 PLUMBING - LEVEL 01 - OVERALL - PHASE 1B - FLOOR PLAN

1/32" = 1'-0"

CONSULTANTS

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629 WASHINGTON ST.
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4656 MIDDLE RD.
COLUMBUS, IN 47203

PROJECT

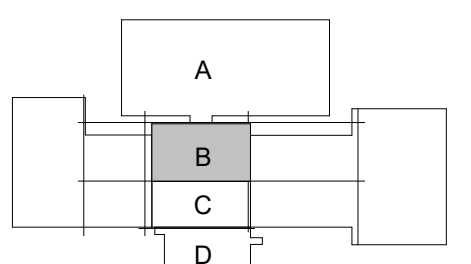
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City of Columbus

123 WASHINGTON ST.
COLUMBUS, IN 47201

KEYPLAN



ISSUE CHART

ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

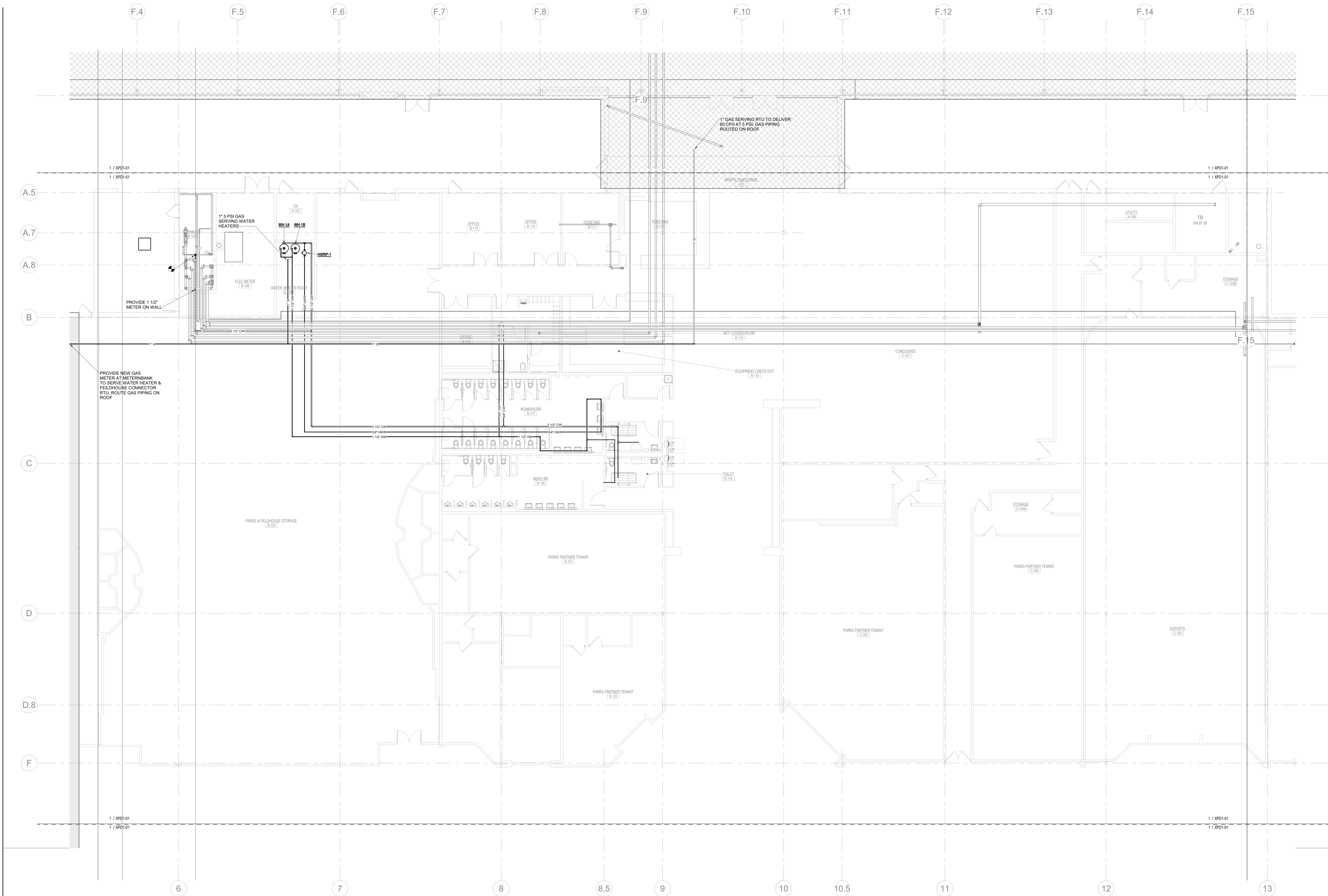
1 FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022
SHEET 1 OF 1
Job Number 023650.000
TITLE

PLUMBING - LEVEL 01
- SECTOR B - PHASE
1B - FLOOR PLAN

SHEET NUMBER

P10-22

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1 PLUMBING - LEVEL 01 - SECTOR B - PHASE 1B - FLOOR PLAN
1/8" = 1'-0"

RENOVATION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	CONNECT TO EXISTING AT THIS POINT

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MEP

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LANDSCAPE

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PROJECT

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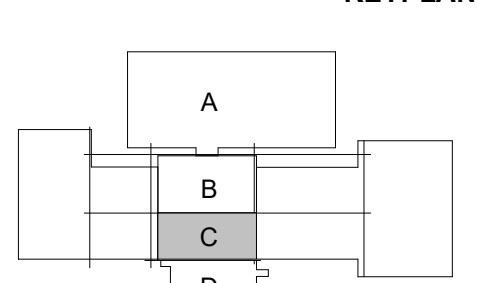
unapexpected.unforgettable.

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ISSUE CHART



ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

RENOVATION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	CONNECT TO EXISTING AT THIS POINT

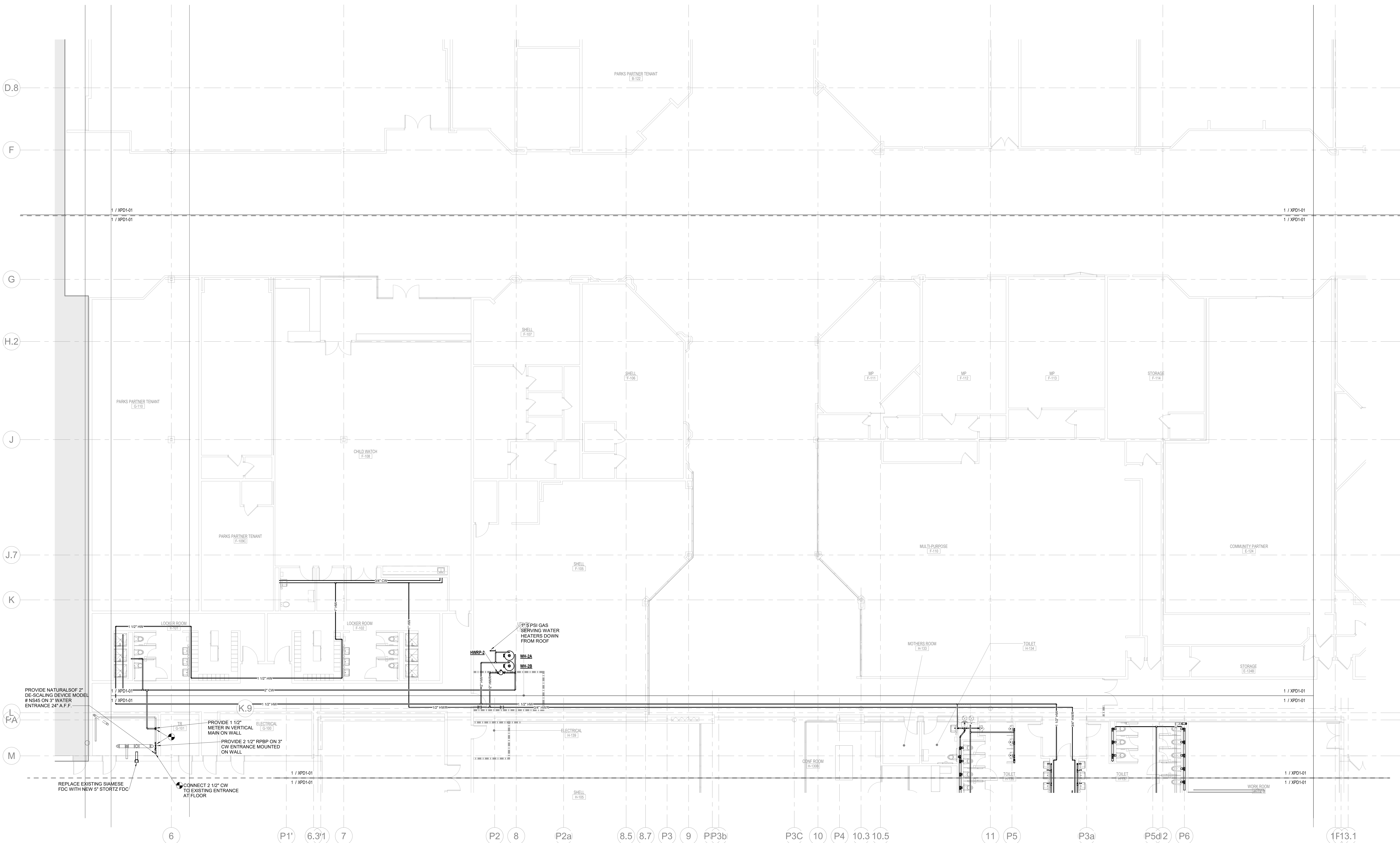
1	FOR PROPOSAL - ENABLING & PHASE 1A	03/18/2022
DATE	ISSUE	DATE
Job Number	023650.000	TITLE

PLUMBING - LEVEL 01
- SECTOR C - PHASE
1B - FLOOR PLAN

SHEET NUMBER

P10-23

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1 PLUMBING - LEVEL 01 - SECTOR C - PHASE 1B - FLOOR PLAN
1/8" = 1'-0"

CONSULTANTS

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COLUMBUS, IN 47203

PROJECT

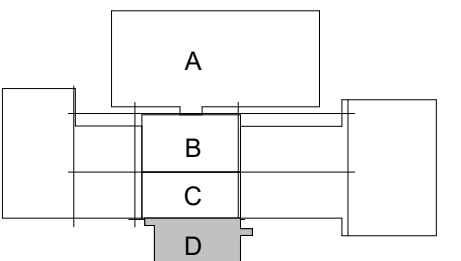
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ISSUE CHART

ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

RENOVATION LEGEND

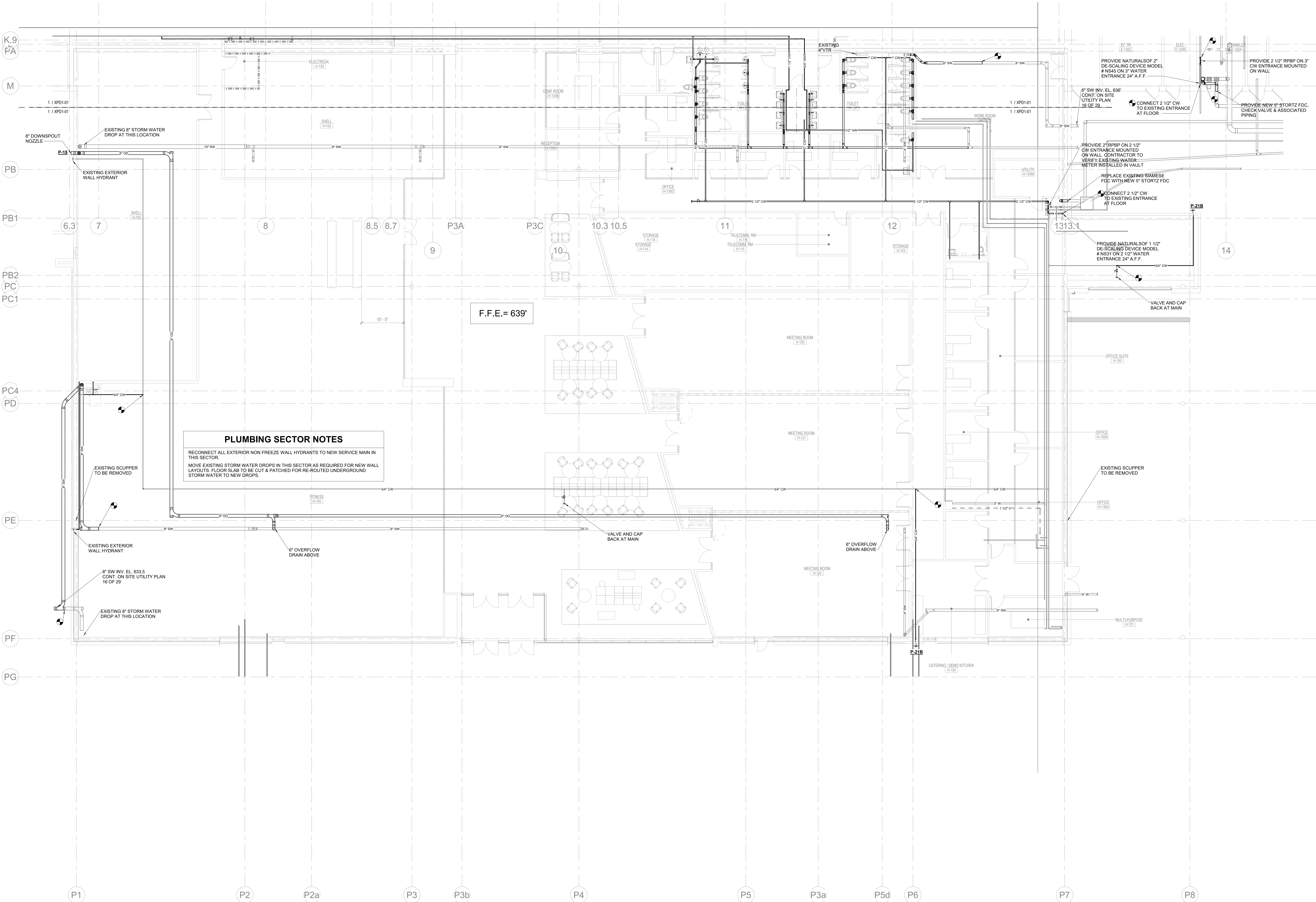
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	CONNECT TO EXISTING AT THIS POINT

1	FOR PROPOSAL - ENABLING & PHASE 1A	03/18/2022
SHEET	1	DATE
Job Number	023650.000	TITLE

PLUMBING - LEVEL 01
- SECTOR D - PHASE
1B - FLOOR PLAN

SHEET NUMBER

P10-24




1 PLUMBING - LEVEL 01 - SECTOR D - PHASE 1B - FLOOR PLAN
1/8" = 1'-0"

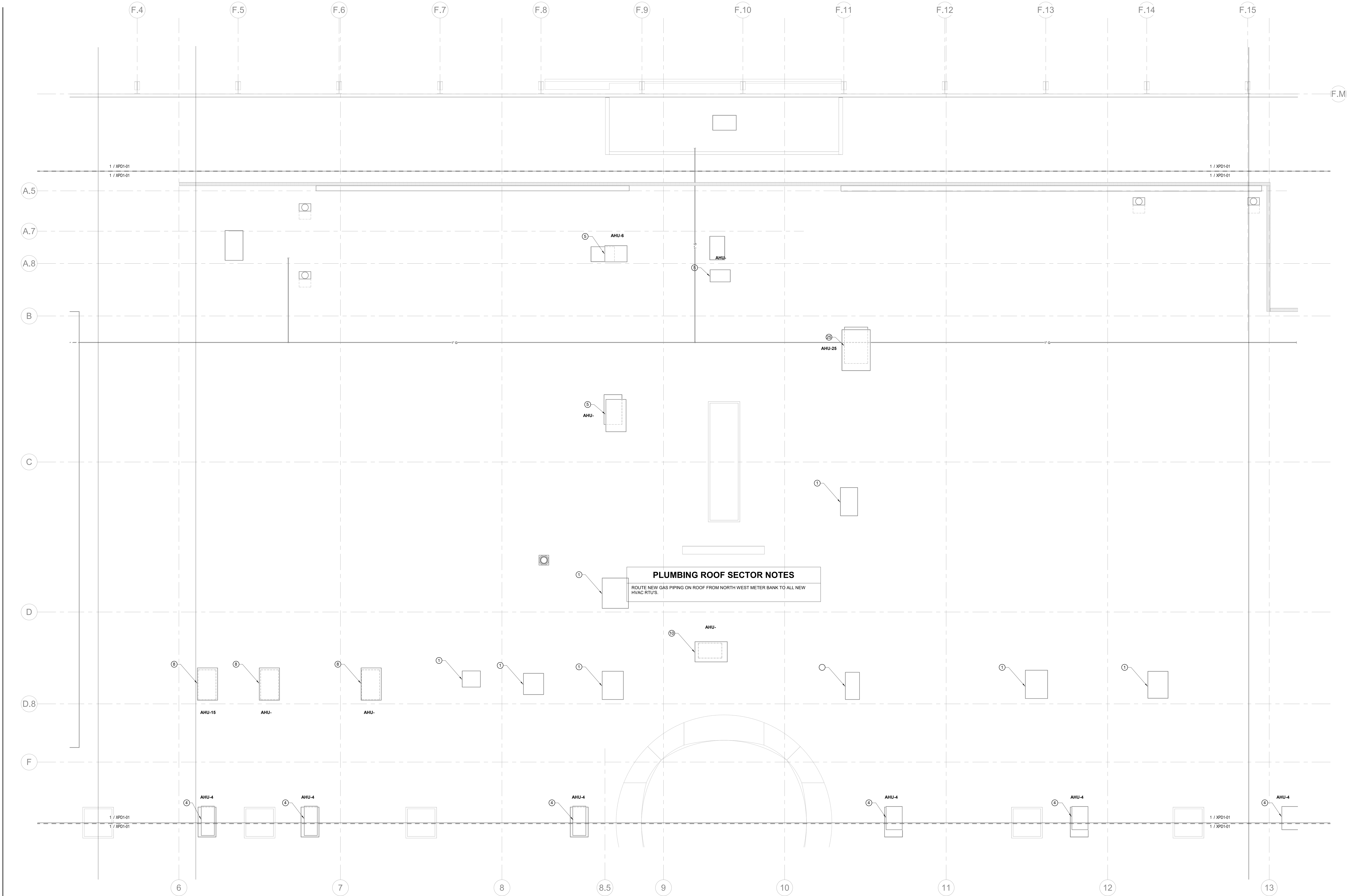
$$1/32'' = 1'-0''$$

SHEET KEYED NOTES

1	EXISTING TO REMAIN
2	1.5 TON UNIT, 560 CFM, EXISTING TO BE DEMOLDED AND REPLACED WITH SAME SIZE UNIT
3	2 TON UNIT, 750 CFM, EXISTING TO BE DEMOLDED AND REPLACED WITH SAME SIZE UNIT
4	3 TON UNIT, 80 CFH, EXISTING TO BE DEMOLDED AND REPLACED WITH SAME SIZE UNIT
5	4 TON UNIT, 80 CFH, EXISTING TO BE DEMOLDED AND REPLACED WITH SAME SIZE UNIT
6	6 TON UNIT, 120 CFH, EXISTING TO BE DEMOLDED AND REPLACED WITH SAME SIZE UNIT
7	7 TON UNIT, 750 CFM, EXISTING TO BE DEMOLDED AND REPLACED WITH SAME SIZE UNIT
8	7.5 TON UNIT, 150/105 CFH, EXISTING TO BE DEMOLDED AND REPLACED WITH SAME SIZE UNIT
9	10 TON UNIT, 200/140 CFH, EXISTING TO BE DEMOLDED AND REPLACED WITH SAME SIZE UNIT
10	12 TON UNIT, 750 CFM, EXISTING TO BE DEMOLDED AND REPLACED WITH SAME SIZE UNIT
11	12.5 TON UNIT, 250/175 CFH, EXISTING TO BE DEMOLDED AND REPLACED WITH SAME SIZE UNIT
12	35 TON UNIT, 600/425 CFH, EXISTING TO BE DEMOLDED AND REPLACED WITH SAME SIZE UNIT
13	AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
14	AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
15	AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
16	AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.
17	AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.

RENOVATION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	CONNECT TO EXISTING AT THIS POINT

2/18/2022 4:45:57 AM Autodesk Docs/Columbus - NewPerkinsWill - PLUMB - 10/10/2022.dwg



1 PLUMBING - ROOF - SECTOR B -PHASE 1B - FLOOR PLAN

1/8" = 1'-0"

SHEET KEYED NOTES

- ① EXISTING TO REMAIN
- ② 1.5 TON UNIT, 560 CFM, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ③ 2 TON UNIT, 750 CFM, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
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- ⑤ 4 TON UNIT, 80 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ⑥ 5 TON UNIT, 120 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
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- ⑰ AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.

RENOVATION LEGEND

SYMBOL	DESCRIPTION
—	EXISTING TO REMAIN
—	NEW CONSTRUCTION
⌘	CONNECT TO EXISTING AT THIS POINT

Perkins&Will

The Wrigley Building
410 North Michigan Ave.
Suite 1600
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www.perkinswill.com

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PROJECT

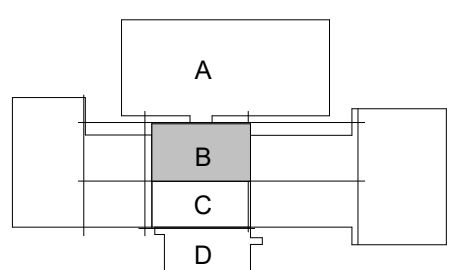
NEXUSPARK



City of Columbus

123 WASHINGTON ST.
COLUMBUS, IN 47201

KEY PLAN



ISSUE CHART

ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

1 FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

023650.000

TITLE

PLUMBING - ROOF -
SECTOR B - PHASE 1B
- FLOOR PLAN

SHEET NUMBER

P11-22

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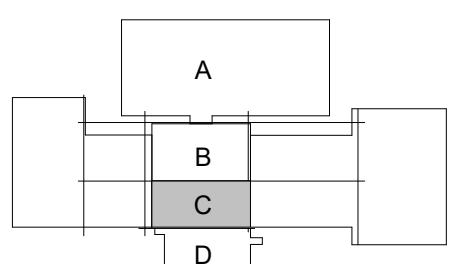
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City of Columbus

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COLUMBUS, IN 47201

KEY PLAN



ISSUE CHART

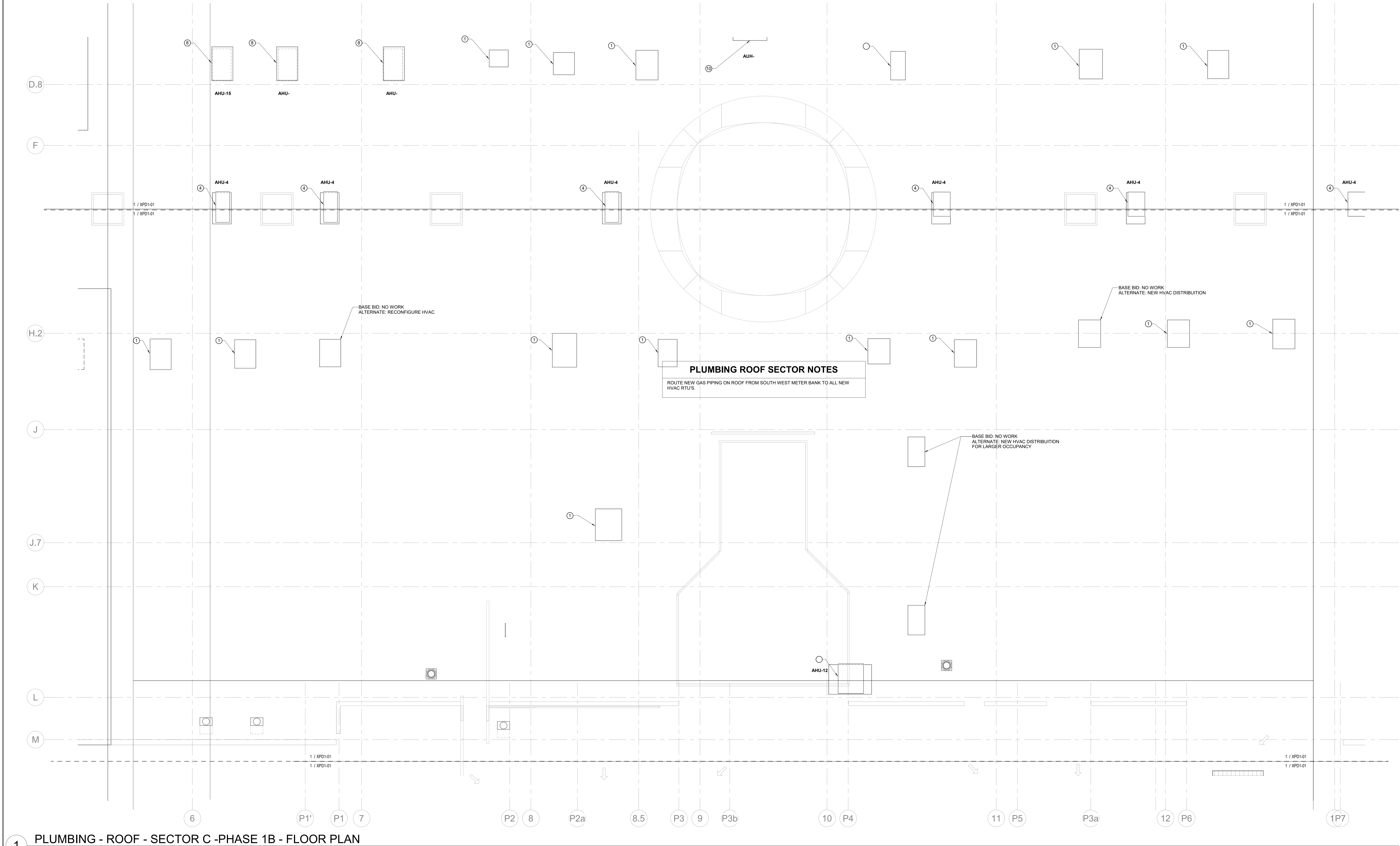
ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

1 FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022
SHEET 1 OF 1
Job Number 023650.000
TITLE

PLUMBING - ROOF -
SECTOR C - PHASE 1B
- FLOOR PLAN

SHEET NUMBER

P11-23



1 PLUMBING - ROOF - SECTOR C -PHASE 1B - FLOOR PLAN

1/8" = 1'-0"

SHEET KEYED NOTES

- ① EXISTING TO REMAIN
- ② 1.5 TON UNIT, 560 CFM, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ③ 2 TON UNIT, 750 CFM, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
- ④ 3 TON UNIT, 80 CFH, EXISTING TO BE DEMOED AND REPLACED WITH SAME SIZE UNIT
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- ⑰ AHU-# SERVED FROM NORTHEAST METER BANK. REROUTE TO NORTHWEST METER BANK.

RENOVATION LEGEND

SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	CONNECT TO EXISTING AT THIS POINT

CONSULTANTS

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629 WASHINGTON ST.
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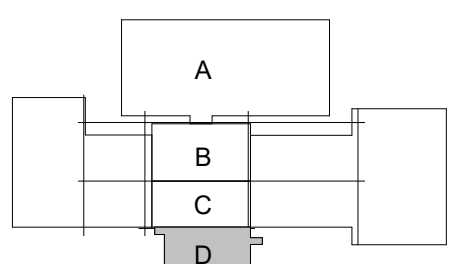
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City of Columbus

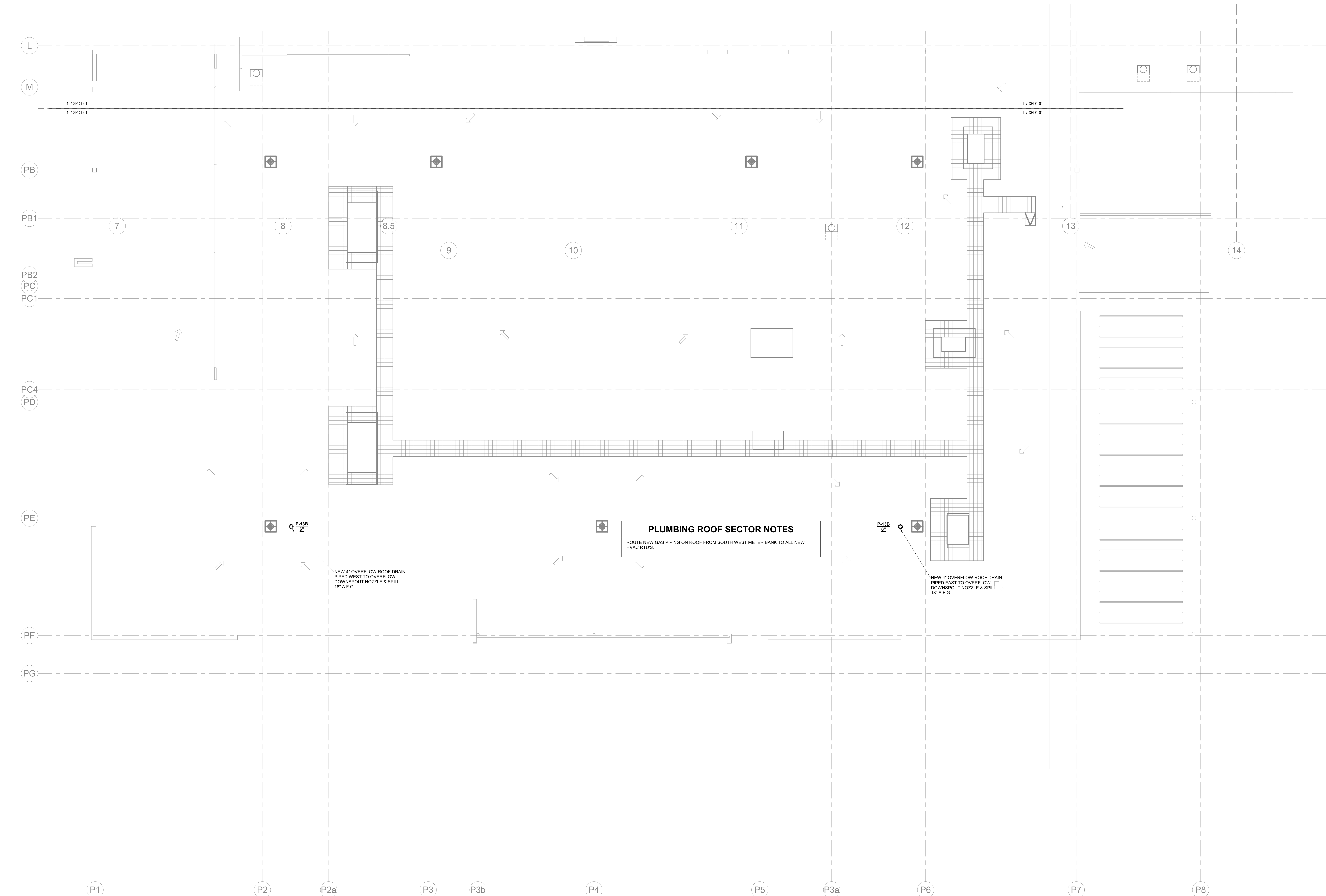
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KEYPLAN



ISSUE CHART

ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022



PLUMBING ROOF SECTOR NOTES
ROUTE NEW GAS PIPING ON ROOF FROM SOUTH WEST METER BANK TO ALL NEW HVAC RTUS.

NEW 4" OVERFLOW ROOF DRAIN
PIPED WEST TO OVERFLOW
DOWNSPOUT NOZZLE & SPILL
18" A.F.G.

NEW 4" OVERFLOW ROOF DRAIN
PIPED EAST TO OVERFLOW
DOWNSPOUT NOZZLE & SPILL
18" A.F.G.

1 PLUMBING - ROOF - SECTOR D - PHASE 1B - FLOOR PLAN
1/8" = 1'-0"

SHEET KEYED NOTES

- ① EXISTING TO REMAIN
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RENOVATION LEGEND

SYMBOL	DESCRIPTION
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1 FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022
JOB NUMBER 023650.000
TITLE

PLUMBING - ROOF -
SECTOR D - PHASE 1B
- FLOOR PLAN

SHEET NUMBER

P11-24

LEGEND		(NOT ALL SYMBOLS MAY BE USED)
SYMBOL	DESCRIPTION	
LIGHTING		
	LIGHTING FIXTURE ANNOTATIONS (LOCATION OF DESIGNATORS MAY VARY) FIXTURE TYPE: XX CIRCUIT NUMBER: T CONTROL DESIGNATION: [x]	
	SURFACE, SUSPENDED, OR RECESSED LUMINAIRES (TYPE DETERMINES MOUNTING)	
	RECESSED OR SURFACE DOWNLIGHT LUMINAIRE	
	PENDANT MOUNTED LUMINAIRE	
	WALLWASH LUMINAIRE	
	WALL MOUNTED LUMINAIRES	
	NO SHADING INDICATES CONNECTION TO NORMAL BRANCH CIRCUIT	
	SHADINGS INDICATES CONNECTION TO LIFE SAFETY OR EMERGENCY BRANCH CIRCUIT	
	ILLUMINATED EXIT SIGNS, PROVIDE DIRECTIONAL ARROWS AND MOUNTING AS INDICATED ON PLANS	
	BATTERY POWERED EMERGENCY LIGHT	
	TRACK LIGHTING	
	POLE MOUNTED SITE LIGHTING LUMINAIRES	
	GROUND OR POLE MOUNTED FLOODLIGHT	
	FAA SPECIALTY LIGHTING (TYPE DETERMINES MOUNTING)	
RECEPTACLES		
	DUPLEX RECEPTACLE - STANDARD MOUNTING HEIGHT	11 = CIRCUIT NUMBER (TYPICAL) XX- RECEPTACLE DESIGNATOR (TYPICAL)
	DUPLEX RECEPTACLE - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT	
	DOUBLE DUPLEX RECEPTACLE	
	DOUBLE DUPLEX RECEPTACLE - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT	
	DUPLEX GFCI RECEPTACLE	
	DUPLEX GFCI RECEPTACLE - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT	
	SWITCHED DUPLEX RECEPTACLE - STANDARD MOUNTING HEIGHT	
	DUPLEX RECEPTACLE, EMERGENCY POWER - STANDARD MOUNTING HEIGHT	
	DUPLEX RECEPTACLE, EMERGENCY POWER - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT	
	DOUBLE DUPLEX RECEPTACLE, EMERGENCY POWER - STANDARD MOUNTING HEIGHT	
	DOUBLE DUPLEX RECEPTACLE, EMERGENCY POWER - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT	
	DUPLEX GFCI RECEPTACLE, EMERGENCY POWER - STANDARD MOUNTING HEIGHT	
	DUPLEX GFCI RECEPTACLE, EMERGENCY POWER - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT	
	SPECIAL CONFIGURATION RECEPTACLE (TYPE AS NOTED)	
	SPECIAL CONFIGURATION RECEPTACLE, EMERGENCY POWER (TYPE AS NOTED)	
	FLOOR BOX / POKE-THRU XX - DEVICE TYPE	
	FLOOR BOX / POKE-THRU, EMERGENCY POWER XX - DEVICE TYPE	
	SURFACE WIREWAY OR RACEWAY WITH RECEPTACLES AS NOTED	
SWITCHES AND LIGHTING CONTROLS		
	S SINGLE POLE SWITCH	
	S ₂ DOUBLE POLE, SINGLE THROW SWITCH	
	S ₃ THREE-WAY SWITCH	
	S ₄ FOUR-WAY SWITCH	
	S _K SINGLE POLE SWITCH - KEY OPERATED	
	S _D DIMMER SWITCH	
	S _{LV} LOW VOLTAGE SWITCH	
	S _P SINGLE POLE SWITCH WITH PILOT LIGHT	
	S _{OC} OCCUPANCY SENSOR SWITCH, WALL MOUNT	
	S _{VD} VACANCY DIMMER	
	S _{VC} VACANCY SENSOR SWITCH	
	S _M MOTOR RATED SWITCH WITH THERMAL OVERLOAD	
	S _T TIMER SWITCH	
	S _V VARIABLE INTENSITY SWITCH	
	S _J JOG SWITCH	
	S _{CB} CIRCUIT BREAKER	
	PHOTOCELL - CEILING / WALL MOUNT	
	OCCUPANCY SENSOR - CEILING / WALL MOUNT	
	DAYLIGHT SENSOR - CEILING / WALL MOUNT	
	VACANCY SENSOR - CEILING / WALL MOUNT	
CIRCUITS AND RACEWAYS		
	BRANCH CIRCUIT OR RACEWAY CONCEALED OR EXPOSED	
	BRANCH CIRCUIT OR RACEWAY BELOW OR IN FLOOR SLAB OR BELOW GRADE	
	CONDUIT OR RACEWAY TURNING UP	
	CONDUIT OR RACEWAY TURNING DOWN	
	CAPPED CONDUIT OR RACEWAY	
	CIRCUIT OR CONDUIT CONTINUATION	
	HOMERUN TO PANELBOARD - NUMBER OF ARROWHEADS INDICATES QUANTITY OF CIRCUITS. REFER TO SPECIFICATIONS FOR MINIMUM CONDUIT SIZES.	
	PARTIAL CIRCUIT	
NOTES: 1. ALL BRANCH CIRCUITS SHALL BE #12 AWG MINIMUM. REFER TO THE SPECIFICATIONS FOR UPSIZING REQUIREMENTS DUE TO VOLTAGE DROP OR OTHER PURPOSES. 2. ALL BRANCH CIRCUITS SHALL CONTAIN A SEPARATE GREEN INSULATED GROUNDING CONDUCTOR, #12 AWG MINIMUM, OR OTHERWISE AS NOTED. 3. ALL 120V AND 277V BRANCH CIRCUITS SHALL UTILIZE A SEPARATE DEDICATED NEUTRAL UNLESS OTHERWISE NOTED.		

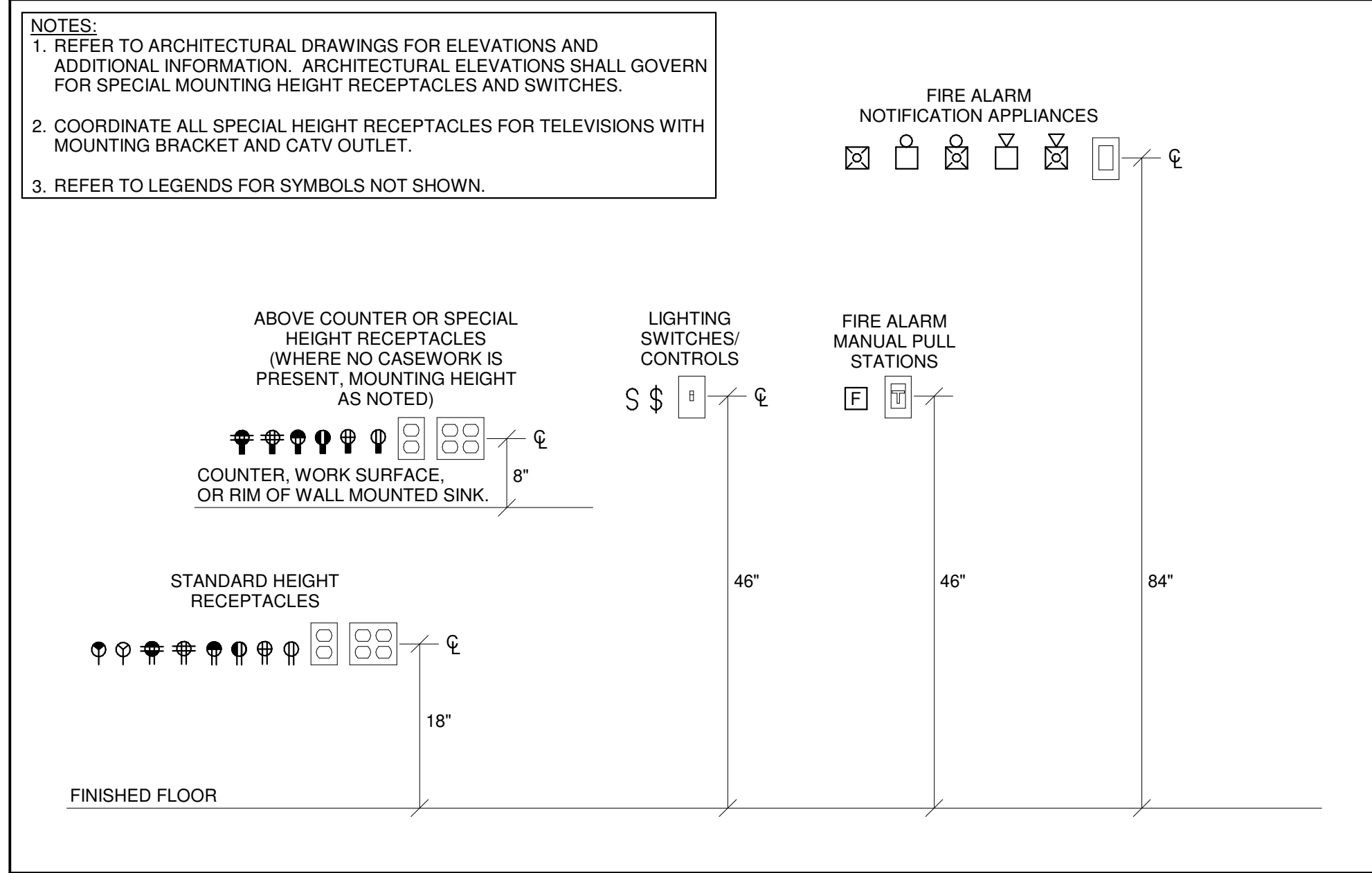
LEGEND		(NOT ALL SYMBOLS MAY BE USED)
SYMBOL	DESCRIPTION	
FIRE ALARM		
	FIRE ALARM VISUAL DEVICE - STROBE ONLY	
	FIRE ALARM CEILING MOUNT VISUAL DEVICE - STROBE ONLY	
	FIRE ALARM AUDIO DEVICE	
	FIRE ALARM AUDIO DEVICE WITH STROBE	
	FIRE ALARM HORN	
	FIRE ALARM HORN WITH STROBE	
	FIRE ALARM CEILING MOUNT HORN WITH STROBE	
	FIRE ALARM CEILING MOUNT AUDIO DEVICE WITH STROBE	
	FIRE ALARM CEILING MOUNT SPEAKER	
	FIRE ALARM MANUAL PULL STATION	
	FIRE ALARM SMOKE DETECTOR NO SUBSCRIPT= IONIZATION TYPE; P= PHOTOELECTRIC; SS= SINGLE STATION SMOKE ALARM	
	FIRE ALARM HEAT DETECTOR SUBSCRIPT AS FOLLOWS: R-RATE OF RISE; T-FIXED TEMPERATURE	
	FIRE ALARM DUCT SMOKE DETECTOR	
	GAS DETECTOR	
	FLAME DETECTOR	
	BEAM DETECTOR SUBSCRIPT AS FOLLOWS: T-TRANSMITTER; R-RECEIVER	
	FIRE ALARM CONTROL MODULE	
	FIRE ALARM MONITOR MODULE	
	FIRE ALARM RELAY MODULE	
	FLOW SWITCH	
	TAMPER SWITCH	
	FIREFIGHTER'S TELEPHONE JACK	
	MAGNETIC DOOR HOLDER	
	SMOKE DETECTOR REMOTE INDICATOR / TEST SWITCH	
	FIRE ALARM CONTROL UNIT	
	FIRE ALARM ANNUNCIATOR PANEL	
	FIRE ALARM EXTENDER PANEL	
	SMOKE CONTROL AND PRESSURE PANEL	
MISCELLANEOUS		
	NON-FUSIBLE SAFETY SWITCH, SIZE AS NOTED (AMP RATING/POLES)	
	FUSIBLE SAFETY SWITCH, SIZE AS NOTED (AMP RATING/POLES-FUSE SIZE)	
	COMBINATION MOTOR STARTER/SAFETY SWITCH	
	FACTORY WIRED CONTROLLER OR EQUIPMENT	
	MOTOR CONNECTION	
	DUCT HEATER CONNECTION	
	JUNCTION BOX - WALL MOUNTED UNLESS OTHERWISE NOTED	
	PANELBOARD	
	CLOCK, SINGLE FACE - CLOCK AND RECEPTACLE AS SPECIFIED	
	CLOCK, DOUBLE FACE - CLOCK AND RECEPTACLE AS SPECIFIED	
	BUILDING AUTOMATION SYSTEM CONTROL PANEL	
	SECURITY SYSTEM CONTROL PANEL	
	DOOR SWITCH MOUNTED IN DOOR JAMB	
	DOOR RELEASE PUSH BUTTON	
	CARD READER	
	ELECTRONIC KEY PAD	
	PUSH BUTTON STATION	
	VARIABLE FREQUENCY DRIVE	
	PUSH PLATE (DOOR OPERATOR)	
	SPECIALTY EQUIPMENT TAG	
	MECHANICAL EQUIPMENT TAG	
	COMMUNICATIONS OUTLET - STANDARD MOUNTING HEIGHT, SPECIAL MOUNTING HEIGHT, CEILING	
	WALL PHONE	
	CATV OUTLET	

LEGEND		(NOT ALL SYMBOLS MAY BE USED)
SYMBOL	DESCRIPTION	
ABBREVIATIONS		
ABC	ABOVE COUNTER	
ADO	AUTOMATIC DOOR OPENER	
AFCI	ARC FAULT CIRCUIT INTERRUPTER	
AFF	ABOVE FINISHED FLOOR	
AFG	ABOVE FINISHED GRADE	
CLG	CEILING	
COF	COFFEE MACHINE	
COP	COPIER	
CR	CONTROLLED RECEPTACLE	
CS	CONTROLLED RECEPTACLE - SPLIT WIRED	
DC	DIGITAL CLOCK	
DW	DISHWASHER	
E	EMERGENCY POWER	
EPO	EMERGENCY POWER OFF	
EV	ELECTRICAL VEHICLE CHARGING STATION	
EWB	ELECTRONIC WHITE BOARD	
EWG	ELECTRIC WATER COOLER	
FBO	FURNISHED BY OTHERS	
FLR	FLOOR MOUNTED	
FSD	FIRE/SMOKE DAMPER	
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	
HD	HAND DRYER	
ICE	ICE MACHINE/MAKER	
IG	ISOLATED GROUND	
MW	MICROWAVE	
PC	PERSONAL COMPUTER WORKSTATION	
PR	PRINTER	
PT	PNEUMATIC TUBE	
RF	REFRIGERATOR	
TC	TIME CLOCK	
TR	TAMPER RESISTANT	
TV	TELEVISION	
URF	UNDERCOUNTER REFRIGERATOR	
USB	RECEPTACLE WITH USB OUTLET(S)	
USBX	USB ONLY (X) = NUMBER OF USB OUTLETS	
VFD	VARIABLE FREQUENCY DRIVE	
VM	VENDING MACHINE	
WP	WEATHERPROOF	

EQUIPMENT NOMENCLATURE	
EQUIPMENT IDENTIFICATION TAGS ARE COMPOSED AS FOLLOWS: <div><div>[EQUIPMENT TYPE]</div><div>[BRANCH OF POWER]</div><div>[VOLTAGE]</div><div>[LEVEL]</div><div>[LOCATION]</div></div> EXAMPLE: <div>MAIN SWITCHBOARD - NORMAL POWER MSBNH1A L - AREA A LEVEL 1 480/277V</div>	
EQUIPMENT TYPES: MSG = MAIN SWITCH GEAR SD = SERVICE DISCONNECT DSG = DISTRIBUTION SWITCH GEAR MSB = MAIN SWITCHBOARD DSB = DISTRIBUTION SWITCHBOARD USB = UNIT SUBSTATION UPS = UNINTERRUPTIBLE POWER SUPPLY MDP = MAIN DISTRIBUTION PANELBOARD DP = DISTRIBUTION PANELBOARD IP = ISOLATED POWER PANELBOARD LP (OR P) = LIGHTING & BRANCH APPLIANCE PANELBOARD	LCP = LIGHTING CONTROL PANEL LRP = LIGHTING RELAY PANEL DCP = DIMMING CONTROL PANEL MCC = MOTOR CONTROL CENTER X = TRANSFORMER G = GENERATOR ATS = AUTOMATIC TRANSFER SWITCH MTS = MANUAL TRANSFER SWITCH WG = WIRING GUTTER EL # = ELEVATOR (# REPRESENTS CAB) BW = BUSWAY BP = BUS PLUG
BRANCHES OF POWER: N = NORMAL E = EMERGENCY C = CRITICAL Q = EQUIPMENT U = UPS	VOLTAGE H = 480/277V L = 208/120V
LEVELS: 1 = LEVEL 1 2 = LEVEL 2 3 = LEVEL 3 4 = LEVEL 4 5 = LEVEL 5 6 = LEVEL 6 7 = LEVEL 7 8 = LEVEL 8 9 = LEVEL 9	AREA / QUAD / SECTOR: A = AREA A B = AREA B C = AREA C D = AREA D E = AREA E F = AREA F G = AREA G H = AREA H I = AREA I

DAY LIGHTING ZONE	
	DAY LIGHTING ZONE 1
	DAY LIGHTING ZONE 2
	DAY LIGHTING ZONE 3

SHEET INDEX	
NUMBER	SHEET NAME
E00-00	ELECTRICAL LEGENDS, INDEX AND NOTES
E00-01	ELECTRICAL SCHEDULES - ENABLING PHASE
E00-03	ELECTRICAL SITE PLAN
E00-11	ELECTRICAL SCHEDULES - PHASE 1A
E00-20	ELECTRICAL SCHEDULES - PHASE 1B
E01-01	ELECTRICAL DEMOLITION PLAN - OVERALL - ENABLING PHASE
E01-20	ELECTRICAL DEMOLITION PLAN - OVERALL - PHASE 1B
E11-01	ELECTRICAL LIGHTING PLAN - SECTOR B - ENABLING PHASE
E11-11	ELECTRICAL LIGHTING PLAN - SECTOR A - PHASE 1A
E11-22	ELECTRICAL LIGHTING PLAN - SECTOR B - PHASE 1B
E11-23	ELECTRICAL LIGHTING PLAN - SECTOR C - PHASE 1B
E11-24	ELECTRICAL LIGHTING PLAN - SECTOR D - PHASE 1B
E12-01	ELECTRICAL POWER PLAN - SECTOR B - ENABLING PHASE
E12-11	ELECTRICAL POWER PLAN - SECTOR A - PHASE 1A
E12-22	ELECTRICAL POWER PLAN - SECTOR B - PHASE 1B
E12-23	ELECTRICAL POWER PLAN - SECTOR C - PHASE 1B
E12-24	ELECTRICAL POWER PLAN - SECTOR D - PHASE 1B
E13-22	ELECTRICAL POWER PLAN - ROOF - SECTOR B - PHASE 1B
E13-23	ELECTRICAL POWER PLAN - ROOF - SECTOR C - PHASE 1B
E13-24	ELECTRICAL POWER PLAN - ROOF - SECTOR D - PHASE 1B
E14-11	AUXILIARY SYSTEMS PLAN - SECTOR A - PHASE 1A
E14-22	AUXILIARY SYSTEMS PLAN - SECTOR B - PHASE 1B
E14-23	AUXILIARY SYSTEMS PLAN - SECTOR C - PHASE 1B
E14-24	AUXILIARY SYSTEMS PLAN - SECTOR D - PHASE 1B
E30-00	ELECTRICAL ENLARGED PLANS - ENABLING PHASE
E30-20	ELECTRICAL ENLARGED PLANS - PHASE 1B
E50-20	ELECTRICAL DETAILS
E60-01	ELECTRICAL POWER DISTRIBUTION DIAGRAM - ENABLING PHASE
E60-02	POWER DISTRIBUTION DIAGRAM - TENANT METERING - ENABLING PHASE
E60-11	ELECTRICAL POWER DISTRIBUTION DIAGRAM - PHASE 1A
E60-21	ELECTRICAL POWER DISTRIBUTION DIAGRAM - PHASE 1B



1 MOUNTING HEIGHT DETAIL

NOT TO SCALE

Perkins&Will

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TAYLOR BROS. CONSTRUCTION CO., INC.
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ISSUE CHART

1	FOR PROPOSAL - ENABLING & PHASE 1A	3/16/2022
ISSUE	DATE	DATE
Job Number	TITLE	

ELECTRICAL
LEGENDS, INDEX AND
NOTES

SHEET NUMBER

E00-00

600 VOLT FEEDER SCHEDULE

NOTES:

1. "AMPS" COLUMN INDICATES OVERCURRENT PROTECTION DEVICE AHEAD OF FEEDER.

2. SUBSCRIPT "N" DENOTES A FEEDER WITHOUT A GROUND.

3. SUBSCRIPT "O" DENOTES A FEEDER WITH OVERSIZED CONDUIT.

4. SUBSCRIPT "Y" DENOTES A FEEDER WITH OVERSIZED CONDUIT.

5. SUBSCRIPT "H" DENOTES A RADIOLOGY FEEDER. PROVIDE EQUIPMENT GROUNDING CONDUCTOR SAME SIZE AS PHASE CONDUCTOR AND OVERSIZED CONDUIT INDICATED IN SCHEDULE.

6. SUBSCRIPT "S" INDICATES SPARE CONDUIT. SIZE AND QUANTITY EQUAL TO "AMPS" INDICATED. LESS CABLE. SUBSCRIPTS APPLY AS NOTED.

7. SUBSCRIPT "T" DENOTES AN OVERSIZED FEEDER DUE TO HIGH TEMPERATURE. INCREASE EQUIPMENT GROUNDING CONDUCTOR SIZE PER REQUIREMENTS OF 250.12(B).

8. SUBSCRIPT "V" DENOTES AN OVERSIZED FEEDER DUE TO VOLTAGE DROP. INCREASE EQUIPMENT GROUNDING CONDUCTOR SIZE PER REQUIREMENTS OF 250.12(B).

9. REFER TO SPECIFICATIONS FOR CONDUCTOR MATERIAL.

600 VOLT COPPER CONDUCTORS							600 VOLT ALUMINUM CONDUCTORS						
AMPS	SETS	PHASE	NEUTRAL	GROUND	CONDUIT	OVERSIZED	AMPS	SETS	PHASE	NEUTRAL	GROUND	CONDUIT	OVERSIZED
30	1	3#10			3/4"	1"	30	---	---	---	---	---	---
40	1	3#8			3/4"	1"	40	---	---	---	---	---	---
50	1	3#8	1#8		3/4"	1"	50	---	---	---	---	---	---
60	1	3#8			3/4"	1"	60	---	---	---	---	---	---
70	1	3#8	1#8		3/4"	1"	70	---	---	---	---	---	---
80	1	3#8			3/4"	1"	80	---	---	---	---	---	---
90	1	3#8	1#8		3/4"	1"	90	---	---	---	---	---	---
100	1	3#8			3/4"	1"	100	---	---	---	---	---	---
110	1	3#8	1#8		3/4"	1"	110	---	---	---	---	---	---
125	1	3#8			3/4"	1"	125	---	---	---	---	---	---
150	1	3#8	1#8		3/4"	1"	150	---	---	---	---	---	---
175	1	3#8			3/4"	1"	175	---	---	---	---	---	---
200	1	3#8	1#8		3/4"	1"	200	---	---	---	---	---	---
225	1	3#8			3/4"	1"	225	---	---	---	---	---	---
250	1	3#8	1#8		3/4"	1"	250	---	---	---	---	---	---
300	1	3#8			3/4"	1"	300	---	---	---	---	---	---
350	1	3#8	1#8		3/4"	1"	350	---	---	---	---	---	---
400	1	3#8			3/4"	1"	400	---	---	---	---	---	---
450	1	3#8	1#8		3/4"	1"	450	---	---	---	---	---	---
500	1	3#8			3/4"	1"	500	---	---	---	---	---	---
550	1	3#8	1#8		3/4"	1"	550	---	---	---	---	---	---
600	1	3#8			3/4"	1"	600	---	---	---	---	---	---
650	1	3#8	1#8		3/4"	1"	650	---	---	---	---	---	---
700	1	3#8			3/4"	1"	700	---	---	---	---	---	---
750	1	3#8	1#8		3/4"	1"	750	---	---	---	---	---	---
800	1	3#8			3/4"	1"	800	---	---	---	---	---	---
850	1	3#8	1#8		3/4"	1"	850	---	---	---	---	---	---
900	1	3#8			3/4"	1"	900	---	---	---	---	---	---
950	1	3#8	1#8		3/4"	1"	950	---	---	---	---	---	---
1000	1	3#8			3/4"	1"	1000	---	---	---	---	---	---
1050	1	3#8	1#8		3/4"	1"	1050	---	---	---	---	---	---
1100	1	3#8			3/4"	1"	1100	---	---	---	---	---	---
1150	1	3#8	1#8		3/4"	1"	1150	---	---	---	---	---	---
1200	1	3#8			3/4"	1"	1200	---	---	---	---	---	---
1250	1	3#8	1#8		3/4"	1"	1250	---	---	---	---	---	---
1300	1	3#8			3/4"	1"	1300	---	---	---	---	---	---
1350	1	3#8	1#8		3/4"	1"	1350	---	---	---	---	---	---
1400	1	3#8			3/4"	1"	1400	---	---	---	---	---	---
1450	1	3#8	1#8		3/4"	1"	1450	---	---	---	---	---	---
1500	1	3#8			3/4"	1"	1500	---	---	---	---	---	---
1550	1	3#8	1#8		3/4"	1"	1550	---	---	---	---	---	---
1600	1	3#8			3/4"	1"	1600	---	---	---	---	---	---
1650	1	3#8	1#8		3/4"	1"	1650	---	---	---	---	---	---
1700	1	3#8			3/4"	1"	1700	---	---	---	---	---	---
1750	1	3#8	1#8		3/4"	1"	1750	---	---	---	---	---	---
1800	1	3#8			3/4"	1"	1800	---	---	---	---	---	---
1850	1	3#8	1#8		3/4"	1"	1850	---	---	---	---	---	---
1900	1	3#8			3/4"	1"	1900	---	---	---	---	---	---
1950	1	3#8	1#8		3/4"	1"	1950	---	---	---	---	---	---
2000	1	3#8			3/4"	1"	2000	---	---	---	---	---	---
2050	1	3#8	1#8		3/4"	1"	2050	---	---	---	---	---	---
2100	1	3#8			3/4"	1"	2100	---	---	---	---	---	---
2150	1	3#8	1#8		3/4"	1"	2150	---	---	---	---	---	---
2200	1	3#8			3/4"	1"	2200	---	---	---	---	---	---
2250	1	3#8	1#8		3/4"	1"	2250	---	---	---	---	---	---
2300	1	3#8			3/4"	1"	2300	---	---	---	---	---	---
2350	1	3#8	1#8		3/4"	1"	2350	---	---	---	---	---	---
2400	1	3#8			3/4"	1"	2400	---	---	---	---	---	---
2450	1	3#8	1#8		3/4"	1"	2450	---	---	---	---	---	---
2500	1	3#8			3/4"	1"	2500	---	---	---	---	---	---
2550	1	3#8	1#8		3/4"	1"	2550	---	---	---	---	---	---
2600	1	3#8			3/4"	1"	2600	---	---	---	---	---	---
2650	1	3#8	1#8		3/4"	1"	2650	---	---	---	---	---	---
2700	1	3#8			3/4"	1"	2700	---	---	---	---	---	---
2750	1	3#8	1#8		3/4"	1"	2750	---	---	---	---	---	---
2800	1	3#8			3/4"	1"	2800	---	---	---	---	---	---
2850	1	3#8	1#8		3/4"	1"	2850	---	---	---	---	---	---
2900	1	3#8			3/4"	1"	2900	---	---	---	---	---	---
2950	1	3#8	1#8		3/4"	1"	2950	---	---	---	---	---	---
3000	1	3#8			3/4"	1"	3000	---	---	---	---	---	---
3050	1	3#8	1#8		3/4"	1"	3050	---	---	---	---	---	---
3100	1	3#8			3/4"	1"	3100	---	---	---	---	---	---
3150	1	3#8	1#8		3/4"	1"	3150	---	---	---	---	---	---
3200	1	3#8			3/4"	1"	3200	---	---	---	---	---	---
3250	1	3#8	1#8		3/4"	1"	3250	---	---	---	---	---	---
3300	1	3#8			3/4"	1"	3300	---	---	---	---	---	---
3350	1	3#8	1#8		3/4"	1"	3350	---	---	---	---	---	---
3400	1	3#8			3/4"	1"	3400	---	---	---	---	---	---
3450	1	3#8	1#8		3/4"	1"	3450	---	---	---	---	---	---
3500	1	3#8			3/4"	1"	3500	---	---	---	---	---	---
3550	1	3#8	1#8		3/4"	1"	3550	---	---	---	---	---	---
3600	1	3#8			3/4"	1"	3600	---	---	---	---	---	---
3650	1	3#8	1#8		3/4"	1"	3650	---	---	---	---	---	---
3700	1	3#8			3/4"	1"	3700	---	---	---	---	---	---
3750	1	3#8	1#8		3/4"	1"	3750	---	---	---	---	---	---
3800	1	3#8			3/4"	1"	3800	---	---	---	---	---	---
3850	1	3#8	1#8		3/4"	1"	3850	---	---	---	---	---	---
3900	1	3#8			3/4"	1"	3900	---	---	---	---	---	---
3950	1	3#8	1#8		3/4"	1"	3950	---	---	---	---	---	---
4000	1	3#8			3/4"	1"	4000	---	---	---	---	---	---
4050	1	3#8	1#8		3/4"	1"	4050	---	---	---	---	---	---
4100	1	3#8			3/4"	1"	4100	---	---	---	---	---	---
4150	1	3#8	1#8		3/4"	1"	4150	---	---	---	---	---	---
4200	1	3#8			3/4"	1"	4200	---	---	---	---	---	---
4250	1	3#8	1#8		3/4"	1"	4250	---	---	---	---	---	---
4300	1	3#8			3/4"	1"	4300	---	---	---	---	---	---
4350	1	3#8	1#8		3/4"	1"	4350	---	---	---	---	---	---
4400	1	3#8			3/4"	1"	4400	---	---	---	---	---	---
4450	1	3#8	1#8		3/4"	1"	4450	---	---	---	---	---	---
4500	1	3#8			3/4"	1"	4500	---	---	---	---	---	---
4550	1	3#8	1#8		3/4"	1"	4550	---	---	---	---	---	---
4600	1	3#8			3/4"	1"	4600	---	---	---	---	---	---
4650	1	3#8	1#8		3/4"	1"	4650	---	---	---	---	---	---
4700	1	3#8			3/4"	1"	4700	---	---	---	---	---	---
4750	1	3#8	1#8		3/4"	1"	4750	---	---	---	---	---	---
4800	1	3#8			3/4"	1"	4800	---	---	---	---	---	---
4850	1	3#8	1#8		3/4"	1"	4850	---	---	---	---	---	---
4900	1	3#8			3/4"	1"	4900	---	---	---	---	---	---
4950	1	3#8	1#8		3/4"	1"	4950	---	---	---	---	---	---
5000	1	3#8			3/4"	1"	5000	---	---	---	---	---	---
5050	1	3#8	1#8		3/4"	1"	5050	---	---	---	---	---	---
5100	1	3#8			3/4"	1"	5100	---	---	---	---	---	---
5150	1	3#8	1#8		3/4"	1"	5150	---	---	---	---	---	---
5200	1	3#8			3/4"	1"	5200	---	---	---	---	---	---
5250	1	3#8	1#8		3/4"	1"	5250	---	---	---	---	---	---
5300	1	3#8			3/4"	1"	5300	---	---	---	---	---	---
5350	1	3#8	1#8		3/4"	1"	5350	---	---	---	---	---	---
5400	1	3#8			3/4"	1"	5400	---	---	---	---	---	---
5450	1	3#8	1#8		3/4"	1"	5450	---	---	---	---	---	---
5500	1	3#8			3/4"	1"	5500	---	---	---	---	---	---
5550	1	3#8	1#8		3/4"	1"	5550	---	---	---	---	---	---
5600	1	3#8			3/4"	1"	5600	---	---	---	---	---	---
5650	1	3#8	1#8		3/4"	1"	5650	---	---	---	---	---	---
5700	1	3#8			3/4"	1"	5700	---	---	---	---	---	---
5750	1	3#8	1#8		3/4"	1"	5750	---	---	---	---	---	---
5800	1	3#8			3/4"	1"	5800	---	---	---	---	---	---
5850	1	3#8	1#8		3/4"	1"	5850	---	---	---	---	---	---
5900	1	3#8			3/4"	1"	5900	---	---	---	---	---	---
5950	1	3#8	1#8		3/4"	1"	5950	---	---	---	---	---	---
6000	1	3#8			3/4"	1"	6000	---	---	---	---	---	---
6050	1	3#8	1#8		3/4"	1"	6050	---	---	---	---	---	---
6100	1	3#8			3/4"	1"	6100	---	---	---	---	---	---
6150	1	3#8	1#8		3/4"	1"	6150	---	---	---	---	---	---</

CONSULTANTS

STRAND ASSOCIATES

629 WASHINGTON ST.
COLUMBUS, IN 47201

STRUCTURAL

SSR, INC.

2995 SIDCO DR.
NASHVILLE, TN 37204

MEP

SSR, INC.

2995 SIDCO DR.
NASHVILLE, TN 37204

LANDSCAPING

MKSX

200 S MERIDIAN ST.
INDIANAPOLIS, IN 46225

OWNER

CITY OF COLUMBUS

123 WASHINGTON ST.
COLUMBUS, IN 47201

FACILITY

FAIR OAKS MALL

2880 20TH ST.
COLUMBUS, IN 47201

CONTRACTOR

TAYLOR BROS. CONSTRUCTION CO., INC.

4855 MIDDLE RD.
COLUMBUS, IN 47203

PROJECT

NEXUSPARK



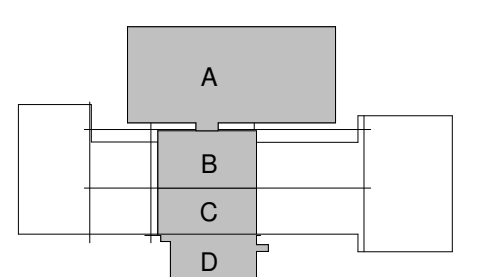
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City of Columbus

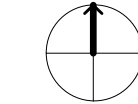
123 WASHINGTON ST.

COLUMBUS, IN 47201

KEYPLAN



ISSUE CHART



ISSUED FOR PROPOSAL - ENABLING & PHASE 1A 03/18/2022

1 FOR PROPOSAL - ENABLING & PHASE 1A 3/18/2022
SHEET 000001 DATE

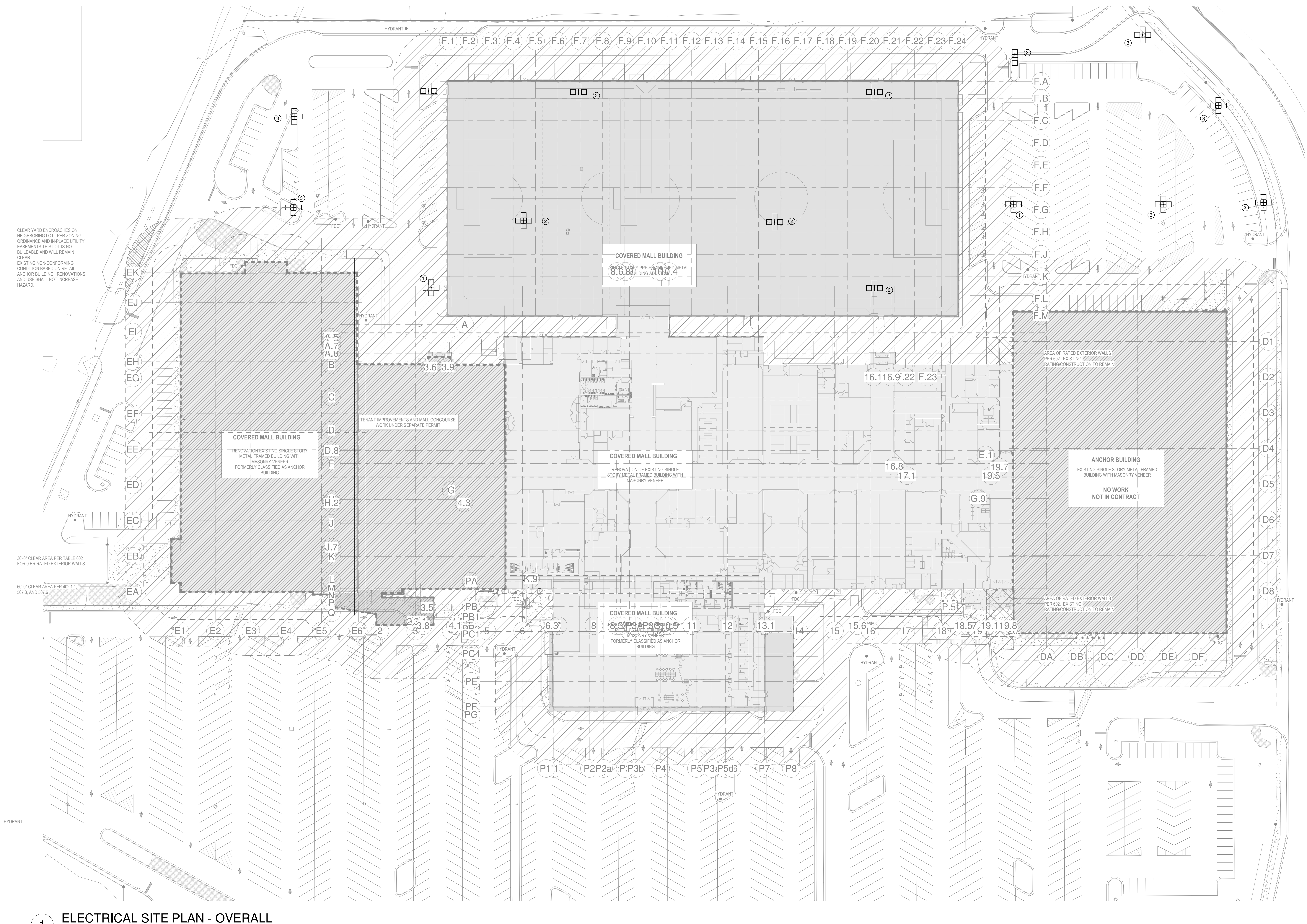
Job Number TITLE

ELECTRICAL SITE
PLAN

SHEET NUMBER

E00-03

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1 ELECTRICAL SITE PLAN - OVERALL

1" = 40'-0"

SHEET KEYED NOTES

- EXISTING SITE POLE AND LIGHT FIXTURE TO BE REMOVED. CONTRACTOR TO REWORK/EXTEND HOME RUN CONDUIT TO SOURCE PANEL TO ALLOW EXISTING SITE LIGHTING TO REMAIN TO BE OPERATIONAL. TURN OVER EXISTING POLE AND FIXTURES TO OWNER.
- EXISTING SITE POLE AND LIGHT FIXTURE TO BE REMOVED. CONTRACTOR TO REMOVE WIRING BETWEEN FIXTURES AND BACK TO SOURCE PANEL.
- EXISTING SITE POLE AND LIGHT FIXTURE TO BE REMAIN.

RENOVATION LEGEND

SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	CONNECT TO EXISTING AT THIS POINT

600 VOLT FEEDER SCHEDULE

600 VOLT COPPER CONDUCTORS													600 VOLT ALUMINUM CONDUCTORS																
AMPS	SETS	PHASE	NEUTRAL	GROUND	CONDUIT	OVERSIZED	AMPS	SETS	PHASE	NEUTRAL	GROUND	CONDUIT	OVERSIZED	AMPS	SETS	PHASE	NEUTRAL	GROUND	CONDUIT	OVERSIZED	AMPS	SETS	PHASE	NEUTRAL	GROUND	CONDUIT	OVERSIZED		
30	1	3#10	---	1#10	3/4"	1"	30	---	---	---	---	---	---	30	---	---	---	---	---	---	30	---	---	---	---	---	---		
40	1	3#8	---	1#8	3/4"	1"	40	---	---	---	---	---	---	40	---	---	---	---	---	---	40	---	---	---	---	---	---		
50	1	3#8	1#8	---	1#10	3/4"	1"	40	---	---	---	---	---	50	---	---	---	---	---	---	50	---	---	---	---	---	---		
50	1	3#8	---	1#8	1#10	3/4"	1"	50	---	---	---	---	---	50	---	---	---	---	---	---	50	---	---	---	---	---	---		
60	1	3#8	---	1#8	1#10	1"	1-1/4"	60	---	---	---	---	---	60	---	---	---	---	---	---	60	---	---	---	---	---	---		
60	1	3#8	1#8	---	1#10	1"	1-1/4"	60	---	---	---	---	---	60	---	---	---	---	---	---	60	---	---	---	---	---	---		
70	1	3#4	---	1#8	1-1/4"	1-1/2"	70	---	---	---	---	---	---	70	---	---	---	---	---	---	70	---	---	---	---	---	---		
70	1	3#4	1#8	---	1#8	1-1/4"	1-1/2"	70	---	---	---	---	---	70	---	---	---	---	---	---	70	---	---	---	---	---	---		
80	1	3#4	---	1#8	1-1/4"	1-1/2"	80	---	---	---	---	---	---	80	---	---	---	---	---	---	80	---	---	---	---	---	---		
80	1	3#4	1#8	---	1#8	1-1/4"	1-1/2"	80	---	---	---	---	---	80	---	---	---	---	---	---	80	---	---	---	---	---	---		
90	1	3#4	---	1#8	1-1/4"	1-1/2"	90	---	---	---	---	---	---	90	---	---	---	---	---	---	90	---	---	---	---	---	---		
90	1	3#4	1#8	---	1#8	1-1/4"	1-1/2"	90	---	---	---	---	---	90	---	---	---	---	---	---	90	---	---	---	---	---	---		
100	1	3#3	---	1#8	1-1/4"	1-1/2"	100	---	---	---	---	---	---	100	---	---	---	---	---	---	100	---	---	---	---	---	---		
100	1	3#3	1#8	---	1#8	1-1/4"	1-1/2"	100	---	---	---	---	---	100	---	---	---	---	---	---	100	---	---	---	---	---	---		
110	1	3#2	---	1#6	1-1/4"	1-1/2"	110	1	3#10	---	1#4	1-1/2"	2"	110	1	3#10	---	1#4	1-1/2"	2"	110	1	3#10	---	1#4	1-1/2"	2"		
110	1	3#2	1#2	---	1#6	1-1/2"	2"	110	1	3#10	1#10	1#4	1-1/2"	2"	110	1	3#10	1#10	1#4	1-1/2"	2"	110	1	3#10	1#10	1#4	1-1/2"	2"	
125	1	3#1	---	1#6	1-1/4"	1-1/2"	125	1	3#20	---	1#4	2"	2-1/2"	3"	125	1	3#20	---	1#4	2"	2-1/2"	3"	125	1	3#20	---	1#4	2"	2-1/2"
125	1	3#1	1#1	---	1#6	1-1/2"	2"	125	1	3#20	1#20	1#4	2"	2-1/2"	125	1	3#20	1#20	1#4	2"	2-1/2"	125	1	3#20	1#20	1#4	2"	2-1/2"	
150	1	3#10	---	1#6	1-1/2"	2"	150	1	3#30	---	1#4	2"	2-1/2"	150	1	3#30	---	1#4	2"	2-1/2"	150	1	3#30	---	1#4	2"	2-1/2"		
150	1	3#10	1#10	---	1#6	1-1/2"	2"	150	1	3#30	1#30	1#4	2"	2-1/2"	150	1	3#30	1#30	1#4	2"	2-1/2"	150	1	3#30	1#30	1#4	2"	2-1/2"	
175	1	3#20	---	1#6	2"	2-1/2"	175	1	3#40	---	1#4	2"	2-1/2"	175	1	3#40	---	1#4	2"	2-1/2"	175	1	3#40	---	1#4	2"	2-1/2"		
175	1	3#20	1#20	---	1#6	2"	2-1/2"	175	1	3#40	1#40	1#4	2-1/2"	3"	175	1	3#40	1#40	1#4	2-1/2"	3"	175	1	3#40	1#40	1#4	2-1/2"	3"	
200	1	3#30	---	1#6	2"	2-1/2"	200	1	3-250 KCMIL	---	1#4	2-1/2"	3"	200	1	3-250 KCMIL	---	1#4	2-1/2"	3"	200	1	3-250 KCMIL	---	1#4	2-1/2"	3"		
200	1	3#30	1#30	---	1#6	2"	2-1/2"	200	1	3-250 KCMIL	1-250 KCMIL	1#4	2-1/2"	3"	200	1	3-250 KCMIL	1-250 KCMIL	1#4	2-1/2"	3"	200	1	3-250 KCMIL	1-250 KCMIL	1#4	2-1/2"	3"	
225	1	3#40	---	1#4	2"	2-1/2"	225	1	3-300 KCMIL	---	1#2	2-1/2"	3"	225	1	3-300 KCMIL	---	1#2	2-1/2"	3"	225	1	3-300 KCMIL	---	1#2	2-1/2"	3"		
225	1	3#40	1#40	---	1#4	2-1/2"	225	1	3-300 KCMIL	1-300 KCMIL	1#2	2-1/2"	3"	225	1	3-300 KCMIL	1-300 KCMIL	1#2	2-1/2"	3"	225	1	3-300 KCMIL	1-300 KCMIL	1#2	2-1/2"	3"		
250	1	3-250 KCMIL	---	1#4	2-1/2"	3"	250	1	3-350 KCMIL	---	1#2	2-1/2"	4"	250	1	3-350 KCMIL	---	1#2	2-1/2"	4"	250	1	3-350 KCMIL	---	1#2	2-1/2"	4"		
250	1	3-250 KCMIL	1-250 KCMIL	---	1#4	2-1/2"	3"	250	1	3-350 KCMIL	1-350 KCMIL	1#2	3"	3-1/2"	250	1	3-350 KCMIL	1-350 KCMIL	1#2	3"	3-1/2"	250	1	3-350 KCMIL	1-350 KCMIL	1#2	3"	3-1/2"	
300	1	3-350 KCMIL	---	1#3	3"	4"	300	1	3-400 KCMIL	---	1#1	3"	4"	300	1	3-400 KCMIL	---	1#1	3"	4"	300	1	3-400 KCMIL	---	1#1	3"	4"		
300	1	3-350 KCMIL	1-350 KCMIL	---	1#3	3"	4"	300	1	3-400 KCMIL	1-400 KCMIL	1#1	3"	4"	300	1	3-400 KCMIL	1-400 KCMIL	1#1	3"	4"	300	1	3-400 KCMIL	1-400 KCMIL	1#1	3"	4"	
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400	1	3-500 KCMIL	---	1#3	3"	3-1/2"	400	2	3-250 KCMIL	---	1#1	2-1/2"	3"	400	2	3-250 KCMIL	---	1#1	2-1/2"	3"	400	2	3-250 KCMIL	---	1#1	2-1/2"	3"		
400	1	3-500 KCMIL	1-500 KCMIL	---	1#3	3-1/2"	4"	400	2	3-250 KCMIL	1-250 KCMIL	1#1	2-1/2"	3"	400	2	3-250 KCMIL	1-250 KCMIL	1#1	2-1/2"	3"	400	2	3-250 KCMIL	1-250 KCMIL	1#1	2-1/2"	3"	
450	2	3#40	---	1#2	2"	2-1/2"	450	2	3-300 KCMIL	---	1#10	2-1/2"	3"	450	2	3-300 KCMIL	---	1#10	2-1/2"	3"	450	2	3-300 KCMIL	---	1#10	2-1/2"	3"		
450	2	3#40	1#40	---	1#2	2-1/2"	450	2	3-300 KCMIL	1-300 KCMIL	1#10	3"	3-1/2"	450	2	3-300 KCMIL	1-300 KCMIL	1#10	3"	3-1/2"	450	2	3-300 KCMIL	1-300 KCMIL	1#10	3"	3-1/2"		
500	2	3-250 KCMIL	---	1#2	2-1/2"	3"	500	2	3-350 KCMIL	---	1#10	2-1/2"	3"	500	2	3-350 KCMIL	---	1#10	2-1/2"	3"	500	2	3-350 KCMIL	---	1#10	2-1/2"	3"		
500	2	3-250 KCMIL	1-250 KCMIL	---	1#2	2-1/2"	3"	500	2	3-350 KCMIL	1-350 KCMIL	1#10	3"	3-1/2"	500	2	3-350 KCMIL	1-350 KCMIL	1#10	3"	3-1/2"	500	2	3-350 KCMIL	1-350 KCMIL	1#10	3"	3-1/2"	
600	2	3-350 KCMIL	---	1#1	3"	4"	600	2	3-400 KCMIL	---	1#2	3"	3-1/2"	600	2	3-400 KCMIL	---	1#2	3"	3-1/2"	600	2	3-400 KCMIL	---	1#2	3"	3-1/2"		
600	2	3-350 KCMIL	1-350 KCMIL	---	1#1	3"	4"	600	2	3-400 KCMIL	1-400 KCMIL	1#2	3"	3-1/2"	600	2	3-400 KCMIL	1-400 KCMIL	1#2	3"	3-1/2"	600	2	3-400 KCMIL	1-400 KCMIL	1#2	3"	3-1/2"	
700	2	3-400 KCMIL	---	1#10	3"	4"	700	2	3-400 KCMIL	---	1#30	3"	3-1/2"	700	2	3-400 KCMIL	---	1#30	3"	3-1/2"	700	2	3-400 KCMIL	---	1#30	3"	3-1/2"		
700	2	3-400 KCMIL	1-400 KCMIL	---	1#10	3"	4"	700	2	3-400 KCMIL	1-400 KCMIL	1#30	3-1/2"	4"	700	2	3-400 KCMIL	1-400 KCMIL	1#30	3-1/2"	4"	700	2	3-400 KCMIL	1-400 KCMIL	1#30	3-1/2"	4"	
800	2	3-500 KCMIL	---	1#10	3"	3-1/2"	800	3	3-400 KCMIL	---	1#30	3"	3-1/2"	800	3	3-400 KCMIL	---	1#30	3"	3-1/2"	800	3	3-400 KCMIL	---	1#30	3"	3-1/2"		
800	2	3-500 KCMIL	1-500 KCMIL	---	1#10	3-1/2"	4"	800	3	3-400 KCMIL	1-400 KCMIL	1#30	3"	3-1/2"	800	3	3-400 KCMIL	1-400 KCMIL	1#30	3"	3-1/2"	800	3	3-400 KCMIL	1-400 KCMIL	1#30	3"	3-1/2"	
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1000	3	3-400 KCMIL	1-400 KCMIL	---	1#20	3"	4"	1000	3	3-600 KCMIL	1-600 KCMIL	1#40	3-1/2"	4"	1000	3	3-400 KCMIL	---	1#40	3"	3-1/2"	1000	3	3-400 KCMIL	---	1#40	3"	3-1/2"	
1200	4	3-350 KCMIL	---	1#30	4"	5"	1200	4	3-500 KCMIL	---	1-250 KCMIL	3"	3-1/2"	1200	4	3-350 KCMIL	---	1#30	4"	5"	1200	4	3-350 KCMIL	---	1#30	4"	5"		
1200	4	3-350 KCMIL	1-350 KCMIL	---	1#30	4"	5"	1200	4	3-500 KCMIL	1-500 KCMIL	1-250 KCMIL	3-1/2"	4"	1200	4	3-350 KCMIL	---	1#30	4"	5"	1200	4	3-350 KCMIL	---	1#30	4"	5"	
1400	4	3-500 KCMIL	---	1#40	3"	4"	1400	6	3-350 KCMIL	---	1-350 KCMIL	2-1/2"	3"	1400	4	3-500 KCMIL	---	1#40	3"	4"	1400	6	3-350 KCMIL	---	1-350 KCMIL	2-1/2"	3"		
1400	4	3-500 KCMIL	1-500 KCMIL	---	1#40	3-1/2"	4"	1400	6	3-350 KCMIL	1-350 KCMIL	1-350 KCMIL	3"	3-1/2"	1400	4	3-500 KCMIL	---	1#40	3"	4"	1400	6	3-350 KCMIL	---	1-350 KCMIL	2-1/2"	3"	
1600	4	3-600 KCMIL	---	---	---	---	1600	6	3-400 KCMIL	---	1-350 KCMIL	3"	3-1/2"	1600	4	3-600 KCMIL	---	---	---	---	1600	6	3-400 KCMIL	---	---	---	---	---	
1600	4	3-600 KCMIL	1-600 KCMIL	---	1#40	4"	5"	1600	6	3-400 KCMIL	1-400 KCMIL	1-350 KCMIL	3"	3-1/2"	1600	4	3-600 KCMIL	---	---	---	---	1600	6						

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620 WASHINGTON ST.
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Landscape

MCKS

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LANDSCAPING
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COLUMBUS, IN 47201
CONTRACTOR
TAYLOR BROS. CONSTRUCTION CO., INC.
4555 MIDDLE RD.
COLUMBUS, IN 47203

PROJECT

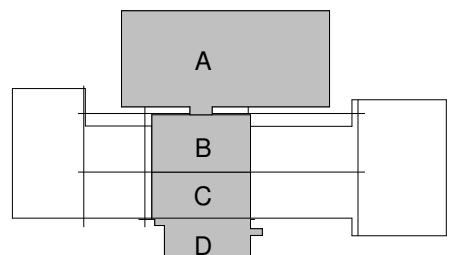
NEXUSPARK



City of Columbus

123 WASHINGTON ST.
COLUMBUS, IN 47201

KEYPLAN



ISSUE CHART

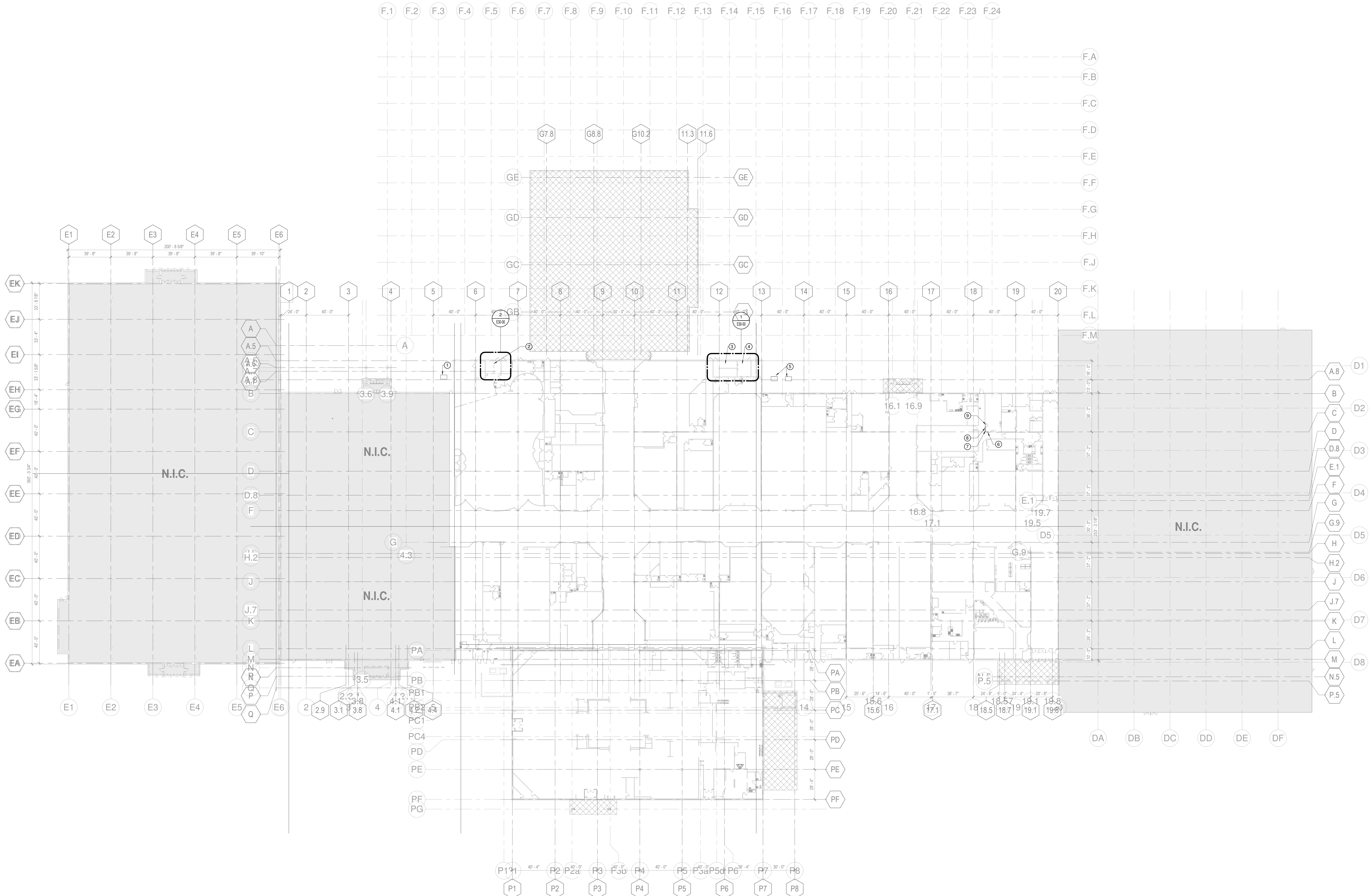
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1 FOR PROPOSAL - ENABLING & PHASE 1A 3/18/2022
SHEET 000001 DATE

TITLE

ELECTRICAL
DEMOLITION PLAN -
OVERALL - ENABLING
PHASE
SHEET NUMBER

E01-01



1 ELECTRICAL DEMOLITION PLAN - LEVEL 1 - OVERALL - Phase 1A.3
1/32" = 1'-0"

DEMOLITION NOTES

- A. ALL WORK SHOWN IS THE RESULT OF LIMITED FIELD INVESTIGATION AND EXISTING ORIGINAL PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND INFORM THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BIDDING.
- B. IF ALL DEVICES/LIGHT FIXTURES ON A CIRCUIT ARE REMOVED, REMOVE CONDUCTORS AND RACEWAY BACK TO PANEL UNLESS OTHERWISE NOTED. IF ALL DEVICES ARE NOT REMOVED, CONNECT REMAINING DEVICES BACK TO ORIGINAL CIRCUIT.
- C. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS BEFORE WORK BEGINS. CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BEGINNING WORK AND REVIEW ALL AREAS CONCERNED WITH THIS PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INFORM THE DESIGNER OF ANY DISCREPANCY IN THE CONTRACT DOCUMENTS INDICATING ANY ADDITIONAL WORK REQUIRED TO BE PERFORMED WITH EXPLANATION OF WORK.
- D. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SCHEDULE ALL DEMOLITION WORK WITH THE OWNER WELL IN ADVANCE. WORK SHALL BE PERFORMED AT SUCH TIMES AND UNDER SUCH CONDITIONS AS SUITS THE OWNER. COORDINATE ELECTRICAL SYSTEMS OPERATION INTERRUPTIONS WITH BUILDING OPERATIONS PERSONNEL. DEMOLITION SHALL BE STAGED TO MAINTAIN DOWNTIME AT AN ABSOLUTE MINIMUM.
- E. PATCH HOLES LEFT IN WALLS AND FLOORS AFTER REMOVAL OF EXISTING PIPING, CONDUIT, ETC., TO MATCH NEW OR EXISTING CONSTRUCTION AND FIRE RATING.
- F. CONTRACTOR SHALL SUBMIT A COMPLETE LIST OF EQUIPMENT AND ITEMS TO BE REMOVED TO THE OWNER. ALL ITEMS THAT THE OWNER WISHES TO RETAIN SHALL BE PLACED IN STORAGE AND THE REMAINDER SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- G. REMOVE ALL JUNCTION BOXES, CONDUIT, PIPE HANGERS, STRAPS OR TIE WIRES ANCHORED IN CONCRETE SLAB ABOVE CEILING THAT ARE NO LONGER IN USE.
- H. EXISTING SERVICES INDICATED ON THESE DRAWINGS WERE DERIVED FROM EXISTING DRAWINGS AND LIMITED FIELD OBSERVATIONS. THESE DRAWINGS ARE NOT ALL INCLUSIVE OF SERVICES THAT EXIST IN THE PROJECT AREA. CONTRACTOR SHALL VERIFY SERVICES, LOCATION, TYPE, AND SIZES PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS IMPACTING WORK SHOWN ON THESE DOCUMENTS SHALL BE REPORTED TO THE DESIGNER FOR COORDINATION PRIOR TO DEMOLITION.
- I. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL, FLOOR AND CEILING DEMOLITION REQUIREMENTS.
- J. COORDINATE WITH MECHANICAL DRAWINGS FOR ELECTRICAL DEMOLITION REQUIREMENTS.
- K. IF ANY EXISTING CIRCUITS ARE TO REMAIN FROM PANEL THAT IS IN THE DEMOLITION AREA, NOTIFY ENGINEER OF NUMBER OF CIRCUITS TO REMAIN, WHAT THE CIRCUITS SERVE AND CIRCUIT SIZE FOR DIRECTION PRIOR TO DEMOLITION OF PANEL.

SHEET KEYED NOTES

- ① EXISTING UTILITY TRANSFORMER TO REMAIN.
- ② EXISTING TENANT METER ROOM TO BE REMOVED. REFER TO POWER DISTRIBUTION DIAGRAMS ON SHEET E60.02.
- ③ EXISTING TENANT METER ROOM TO REMAIN. REFER TO POWER DISTRIBUTION DIAGRAMS ON SHEET E60.02 AND ENLARGED PLANS.
- ④ EXISTING ELECTRICAL EQUIPMENT IN THIS SPACE TO REMAIN. REFER TO ENLARGED PLAN SHEET E60.03. EXISTING PANEL HON TO BE REFD FROM NEW SWITCHBOARD, SEE SHEET E60.01.
- ⑤ EXISTING UTILITY TRANSFORMERS TO BE REMOVED.
- ⑥ EXISTING 480/277 V PANEL LP-HO TO REMAIN. .
- ⑦ EXISTING LIGHTING CONTACTOR CABINET TO REMAIN.
- ⑧ EXISTING 120/208V PANEL LP-LO TO REMAIN.
- ⑨ EXISTING 45 KVA TRANSFORMER TO REMAIN.

DEMOLITION LEGEND

SYMBOL	DESCRIPTION
—	EXISTING TO REMAIN
—	EXISTING TO BE REMOVED
■	DEMO TO THIS POINT