

ONEIDA COUNTY DEPARTMENT OF PUBLIC WORKS

MOHAWK VALLEY COMMUNITY COLLEGE

SCIENCE & TECHNOLOGY BUILDING

CONSTRUCTION
SEPTEMBER 23, 2025

REGISTERED ARCHITECT
MATTHEW E. LASCH
039770
STATE OF NEW YORK

EXPIRATION DATE: 05-31-2028

THE UNDERSIGNED CERTIFIES THAT TO THE BEST OF THEIR KNOWLEDGE, INFORMATION AND BELIEF, THE PLANS AND SPECIFICATIONS ARE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, AND THE STATE ENERGY CONSERVATION CONSTRUCTION CODE.

REGISTERED ARCHITECT
JAMES R. BRADDOCK
018801
STATE OF NEW YORK

EXPIRATION DATE: 05-31-2026

BID REFERENCE NO. 2307 & 2361

GENERAL CONSTRUCTION:	CONTRACT NO. H2455701
SITEWORK CONSTRUCTION:	CONTRACT NO. H2455702
ROOFING CONSTRUCTION:	CONTRACT NO. H2455703
FIRE PROTECTION CONSTRUCTION:	CONTRACT NO. H2455704
PLUMBING CONSTRUCTION:	CONTRACT NO. H2455705
MECHANICAL CONSTRUCTION:	CONTRACT NO. H2455706
ELECTRICAL CONSTRUCTION:	CONTRACT NO. H2455707

DRAWING LIST - VOLUME 3:

DRAWING NO.	DRAWING NAME
FIRE PROTECTION	
FP-101	FIRST FLOOR PLAN (HEAD)
FP-102	FIRST FLOOR PLAN (SHED)
FP-103	SECOND FLOOR PLAN (HEAD)
FP-104	PENTHOUSE FLOOR PLAN (SHED), DETAILS & SCHEDULES
PLUMBING	
P-101	FOUNDATION PLAN (HEAD)
P-102	FOUNDATION PLAN (SHED)
P-103	FIRST FLOOR PLAN (HEAD)
P-104	FIRST FLOOR PLAN (SHED)
P-105	SECOND FLOOR PLAN (HEAD)
P-106	PENTHOUSE FLOOR PLAN (SHED)
P-401	ENLARGED CHEMISTRY FLOOR PLANS (HEAD)
P-501	PARTIAL SITE PLAN
P-601	DETAILS
P-602	DETAILS
P-603	DETAILS & SCHEDULES
MECHANICAL	
M-001	PROPOSED MECHANICAL SYSTEMS SCHEMATIC
M-101	FIRST FLOOR PLAN (HEAD) DUCTWORK
M-102	FIRST FLOOR PLAN (SHED) DUCTWORK
M-103	SECOND FLOOR PLAN (HEAD) DUCTWORK
M-104	PENTHOUSE FLOOR PLAN (SHED) DUCTWORK
M-105	HIGH ROOF PLAN (HEAD)
M-201	FIRST FLOOR PLAN (HEAD) PIPING
M-202	FIRST FLOOR PLAN (SHED)
M-203	SECOND FLOOR PLAN (HEAD) PIPING
M-204	PENTHOUSE FLOOR PLAN (SHED) PIPING

DRAWING NO.	DRAWING NAME
M-501	PARTIAL SITE PLAN
M-601	DETAILS
M-602	DETAILS
M-603	SCHEDULES
M-604	DETAILS & SCHEDULES
ELECTRICAL	
ME-101	MOTOR STARTER SCHEDULE
ME-102	MOTOR STARTER SCHEDULE
E-001	GENERAL
E-010	SITE PLAN - REMOVALS
E-011	SITE PLAN
E-012	SITE PLAN (ACADEMIC BUILDING)
E-101	FIRST FLOOR PLAN - HEAD (LIGHTING)
E-102	SECOND FLOOR PLAN - HEAD (LIGHTING)
E-103	FIRST FLOOR PLAN - SHED (LIGHTING)
E-104	PENTHOUSE FLOOR PLAN - SHED (LIGHTING)
E-201	FIRST FLOOR PLAN - HEAD (POWER)
E-202	SECOND FLOOR PLAN - HEAD (POWER)
E-203	FIRST FLOOR PLAN - SHED (POWER)
E-204	PENTHOUSE FLOOR PLAN - SHED (POWER)
E-301	FIRST FLOOR PLAN - HEAD (MISC.)
E-302	SECOND FLOOR PLAN - HEAD (MISC.)
E-303	FIRST FLOOR PLAN - SHED (MISC.)
E-304	PENTHOUSE FLOOR PLAN - SHED (MISC.)
E-305	ROOF PLAN - HEAD
E-500	ENLARGED PLAN - MECHATRONICS ROBOTICS, PNEUMATICS & HYDRAULICS
E-501	ENLARGED PLAN - CHEMISTRY & LAB SUPPORT
E-502	ENLARGED PLAN - AUTOMATION TRAINING CENTER

DRAWING NO.	DRAWING NAME
E-503	ENLARGED PLAN - FAB LAB
E-504	ENLARGED PLANS - CLASSROOMS - HEAD (FIRST FLOOR)
E-505	ENLARGED PLAN - HVAC LAB
E-506	ENLARGED PLAN - WELDING LAB
E-507	ENLARGED PLAN - MACHINE & CNC LAB
E-508	ENLARGED PLAN - CIVIL LAB, CAD LAB & COLLAB LAB
E-509	ENLARGED PLAN - INDUSTRIAL CONTROLS
E-510	ENLARGED PLAN - ELECTRICAL CODES
E-511	ENLARGED PLAN - MATERIAL TESTING & MATERIAL PROCESS
E-512	COOLING TOWER PLANS (PAYNE HALL)
E-513	BASEMENT AND FIRST FLOOR PLANS (ACADEMIC BUILDING)
E-601	ONE LINE POWER DIAGRAM
E-602	PANELBOARD NOTES
E-603	TEMPORARY ELECTRIC ONE LINE POWER DIAGRAM
E-701	DETAILS
E-702	DETAILS
E-703	DETAILS
E-704	DETAILS
E-705	DETAILS
E-706	DETAILS
E-801	PHOTOMETRIC CALCULATION SITE PLAN & SCHEDULES
E-802	PHOTOMETRIC CALCULATIONS FIRST FLOOR PLANS
E-803	PHOTOMETRIC CALCULATIONS SECOND FLOOR PLANS AND PENTHOUSE PLANS

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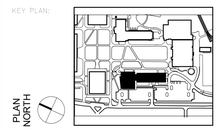
SEAL:

ISSUE/REVISION:

NO.	DATE	COMMENTS

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ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

KEY PLAN:



PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

COVER SHEET – VOL. 3

PROJECT NO: 23000
DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION
SCALE:

T-003

GENERAL NOTES:

1. THOROUGHLY COORDINATE WORK WITH ALL ASSOCIATED WORK EXECUTED BY "OTHER" CONTRACTORS.
2. EXECUTE ALL WORK IN A FASHION COMPLEMENTARY WITH AND UNOBTRUSIVE TO THE OWNER'S NEEDS AND OPERATIONS, RESPECTIVELY.
3. PROVIDE "PROTECTION" RELATIVE TO ALL APPLICABLE WORK IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN DIVISION 1.
4. SUBMIT FABRICATION DRAWINGS, HYDRAULIC CALCULATIONS AND EQUIPMENT CUT SHEETS TO AUTHORITY HAVING JURISDICTION FOR APPROVAL. (REFER TO PROJECT MANUAL FRONT END FOR EXACT NUMBER OF SETS.)
5. THESE DRAWINGS REFLECT INTENDED ARRANGEMENT OF SYSTEMS AND APPROXIMATE SCOPE. CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM FULLY COMPLIANT WITH NFPA 13.
6. CONTRACTOR SHALL PERFORM A HYDRANT FLOW TEST IN ACCORDANCE WITH NFPA 291 AND LOCAL REGULATIONS. THE CONTRACTORS TEST SHALL BE USED AS THE BASIS FOR HYDRAULIC CALCULATIONS.
7. A. FIRE PROTECTION SYSTEM CLASSIFICATION/PARAMETERS (HEAD):
   1. OCCUPANCY CLASSIFICATION: ORDINARY HAZARD GROUP 1
   2. SYSTEM CLASSIFICATION: WET PIPE, HYDRAULICALLY DESIGNED
   3. DENSITY REQUIREMENTS: @ 0.1GPM OVER 1,500 SQ. FT. (225 GPM)
   4. HOSE STREAM ALLOWANCE FOR CALCULATIONS: 250 GPM
   5. SPRINKLER PROTECTION AREA: 130 SQ. FT. (MAXIMUM)

   B. FIRE PROTECTION SYSTEM CLASSIFICATION/PARAMETERS (SHED):
   1. OCCUPANCY CLASSIFICATION: ORDINARY HAZARD GROUP 2
   2. SYSTEM CLASSIFICATION: WET PIPE, HYDRAULICALLY DESIGNED
   3. DENSITY REQUIREMENTS: @ 0.2 GPM OVER 1,500 SQ. FT. (300 GPM)
   4. HOSE STREAM ALLOWANCE FOR CALCULATIONS: 250 GPM
   5. SPRINKLER PROTECTION AREA: 130 SQ. FT. (MAXIMUM)

   C. AUTHORITY HAVING JURISDICTION:
   CITY OF UTICA FIRE DEPARTMENT,
   CHIEF INDERKOLL
   TEL. 315-792-2526 #

8. FIRE PROTECTION PIPING SYSTEMS SHALL BE SUPPORTED IN STRICT ACCORDANCE WITH THE "SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS", SECOND EDITION, PUBLISHED BY SMACNA. SEISMIC PARAMETER - SITE CLASS C.

LEGEND

GC	- GENERAL CONTRACTOR
MC	- MECHANICAL CONTRACTOR
HC	- HEATING CONTRACTOR
PC	- PLUMBING CONTRACTOR
FPC	- FIRE PROTECTION CONTRACTOR
EC	- ELECTRIC CONTRACTOR
EXIST.	- EXISTING
AFF	- ABOVE FINISHED FLOOR
AFG	- ABOVE FINISHED GRADE
GPM	- GALLONS PER MINUTE
PRV	- PRESSURE REDUCING VALVE
RV	- RELIEF VALVE
BF	- BACK FLOW PREVENTER
FACP	- FIRE ALARM CONTROL PANEL
HV	- HOSE VALVE
WPS	- WET PIPE SPRINKLER FEED
SP	- STANDPIPE FEED

SYMBOLS

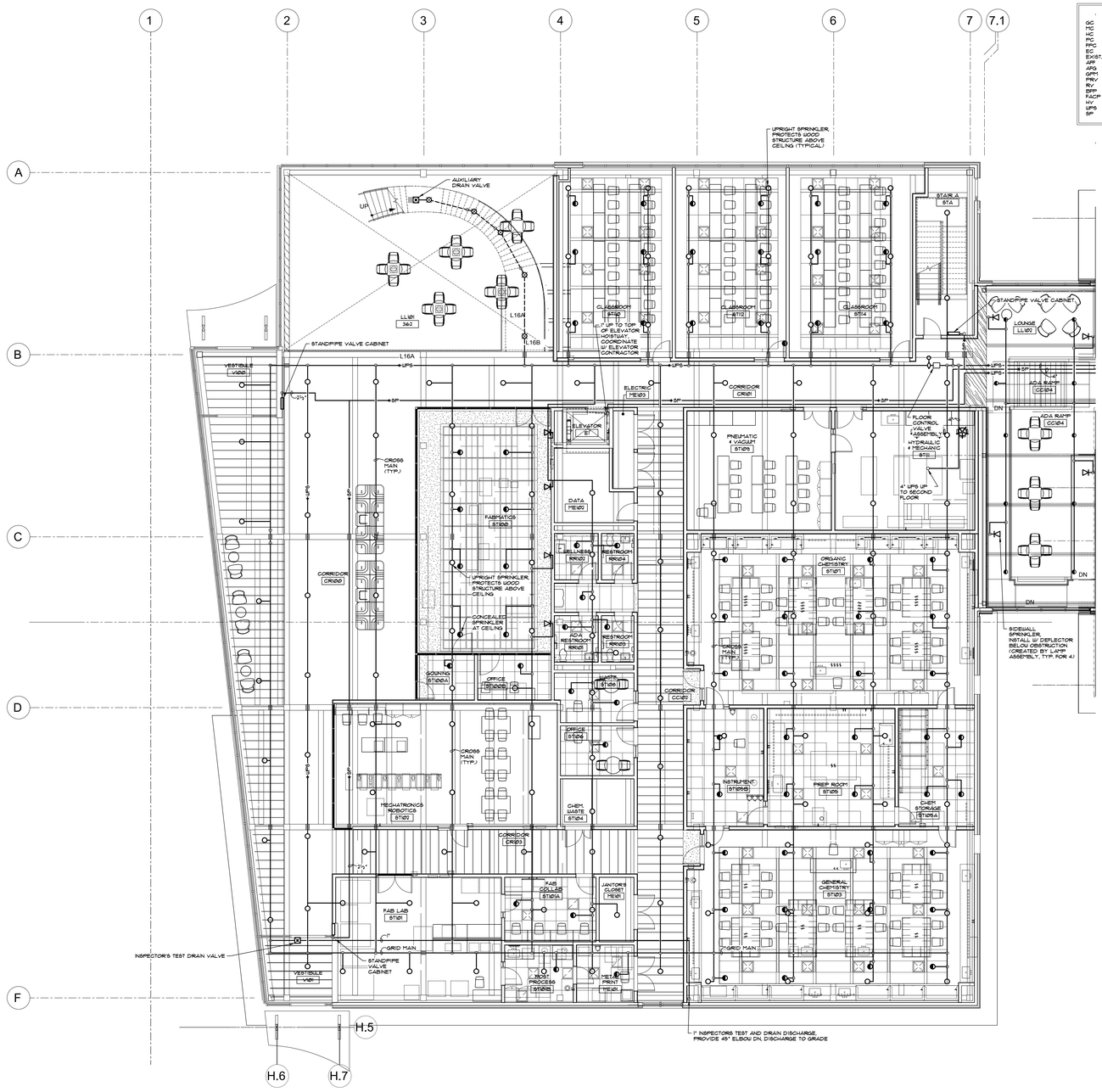
	- PROPOSED
	- EXISTING
	- EXISTING TO BE REMOVED
	- FLANGE
	- UNION
	- CONCENTRIC REDUCER
	- GATE VALVE
	- GLOBE VALVE
	- STRAINER
	- SWING CHECK VALVE
	- BALL VALVE
	- PRESSURE REDUCING VALVE
	- RELIEF VALVE
	- POST-INDICATOR VALVE
	- OS & Y VALVE
	- CHECK VALVE
	- REDUCED PRESSURE ZONE, BACKFLOW PREVENTER ASSEMBLY
	- METER
	- PUBLIC HYDRANT, TWO HOSE OUTLETS
	- PRESSURE GAUGE
	- SIAMESE FIRE DEPARTMENT CONNECTION
	- FLOW DETECTOR SWITCH
	- TAMPER DETECTOR
	- VALVE W/ TAMPER DETECTOR / SWITCH
	- UPRIGHT SPRINKLER
	- PENDENT SPRINKLER
	- UPRIGHT SPRINKLER, NIPPLED UP
	- PENDENT SPRINKLER, ON DROP NIPPLE
	- SIDEWALL SPRINKLER
	- CONCEALED PENDENT SPRINKLER
	- SWGN O-VER SPRINKLER SYMBOL TO DENOTE SPRINKLER SHALL BE PROVIDED WITH A WIRE GUARD

IT IS INTENDED THAT ALL FIRE PROTECTION PIPING THROUGHOUT THE "HEAD" BE INSTALLED AS HIGH AS POSSIBLE.

ACCORDINGLY, THERE ARE NUMEROUS LOCATIONS WHERE THE PIPING MUST PASS THROUGH THE CENTER OF GLULAM BEAMS. MANY LOCATIONS DENOTED BY

REFER TO STRUCTURAL DRAWINGS AND DRAWING SK-8 FOR DETAILS.

ALL EXPOSED FIRE PROTECTION PIPING INSTALLED IN THE 1ST AND 2ND FLOOR OF THE "HEAD" SHALL BE PRIMED AND PAINTED PRIOR TO INSTALLATION. TOUCH UP SHALL BE PROVIDED AS NECESSARY AFTER INSTALLATION. COLOR SHALL BE SELECTED BY ARCHITECT. SUBMIT COLOR SAMPLES FOR REVIEW.



FIRST FLOOR PLAN (HEAD)

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

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SEAL:

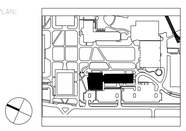
EXPIRATION DATE: 11/30/2027
STATE OF NEW YORK
CHRISTOPHER D MARCH
087708
LICENSED PROFESSIONAL ENGINEER

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/2025	REBID & CONSTRUCTION

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KEY PLAN:



PLAN NORTH

PROJECT:

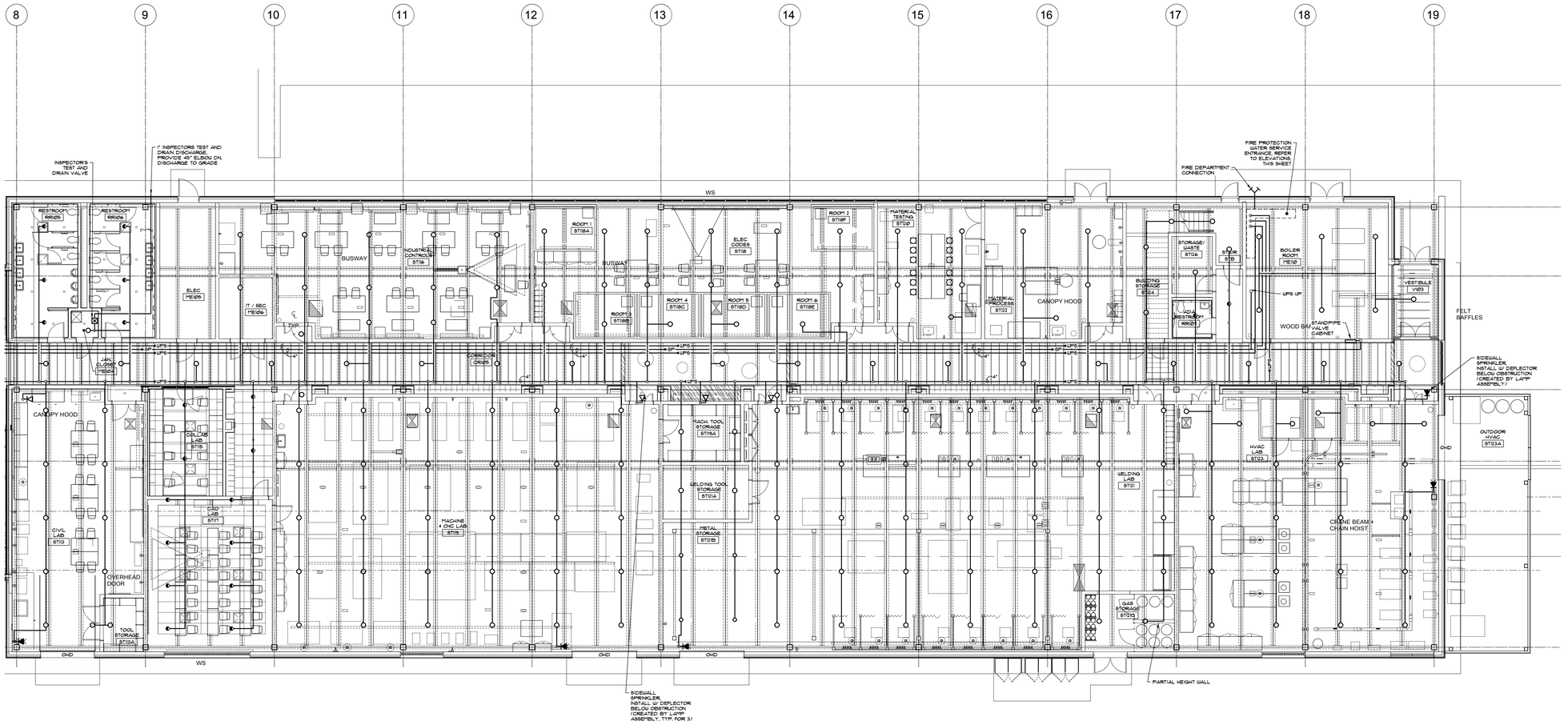
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

FIRST FLOOR PLAN (HEAD)

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

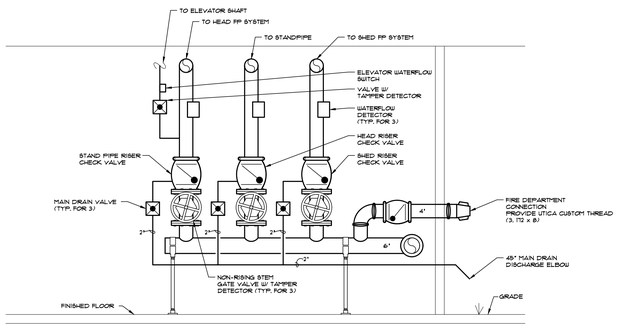
FP-101



FIRST FLOOR PLAN (SHED)

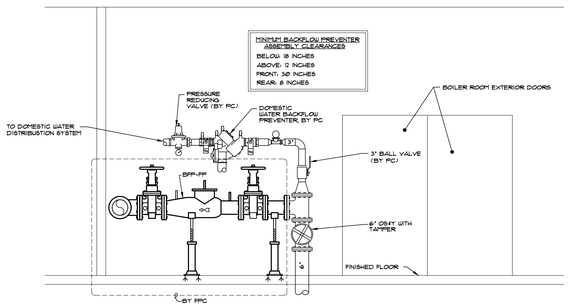
SCALE: 1/8" = 1' - 0"





ELEVATION OF FIRE PROTECTION SERVICE, LOOKING NORTH

SCALE: NONE



ELEVATION OF FIRE PROTECTION SERVICE, LOOKING EAST

SCALE: NONE

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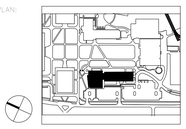
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KEY PLAN:



PLAN NORTH

PROJECT:

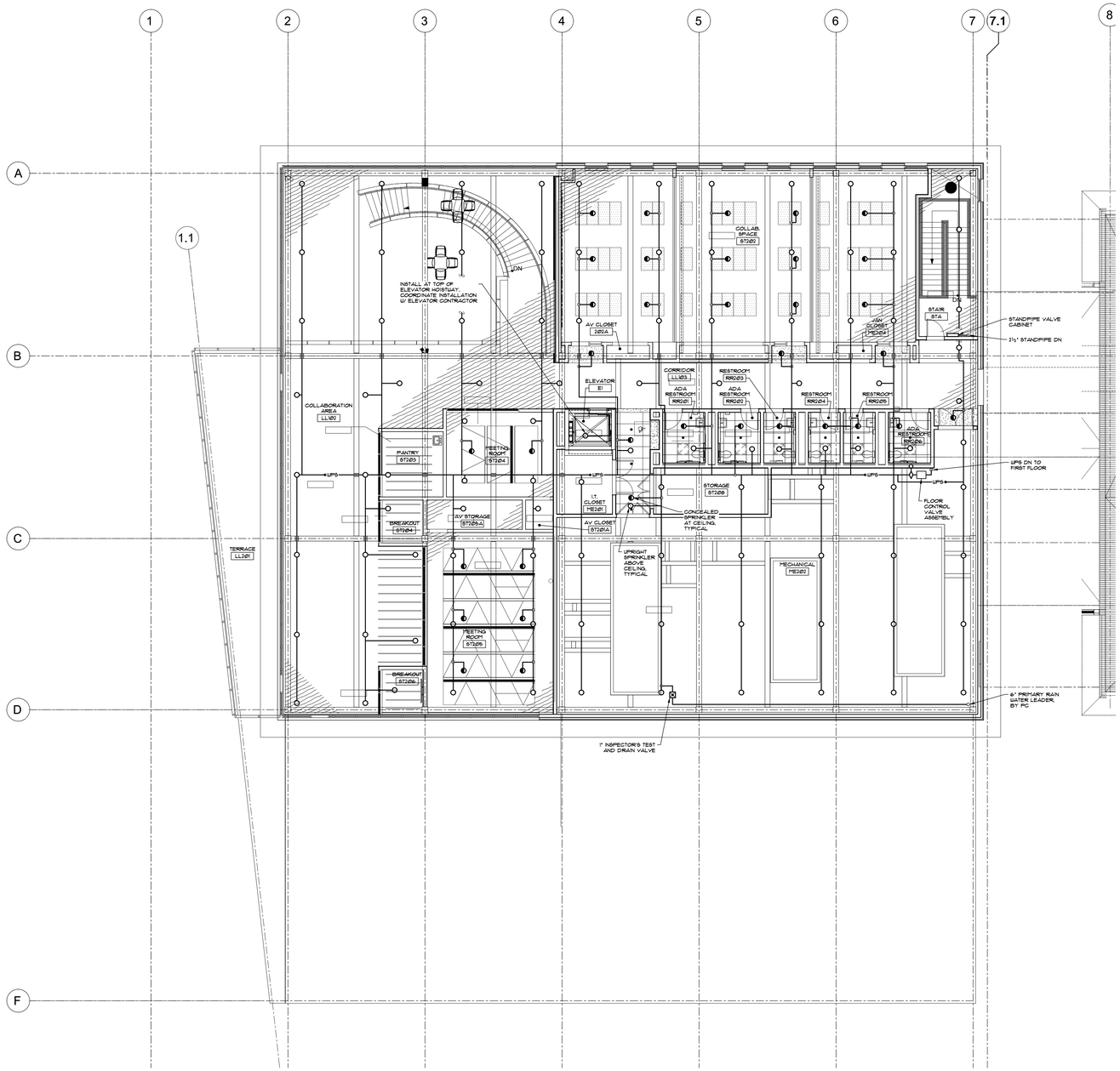
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

FIRST FLOOR PLAN (SHED)

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

FP-102



SECOND FLOOR PLAN (HEAD)

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

NORTH

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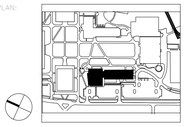
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KEY PLAN:



PLAN NORTH

PROJECT:

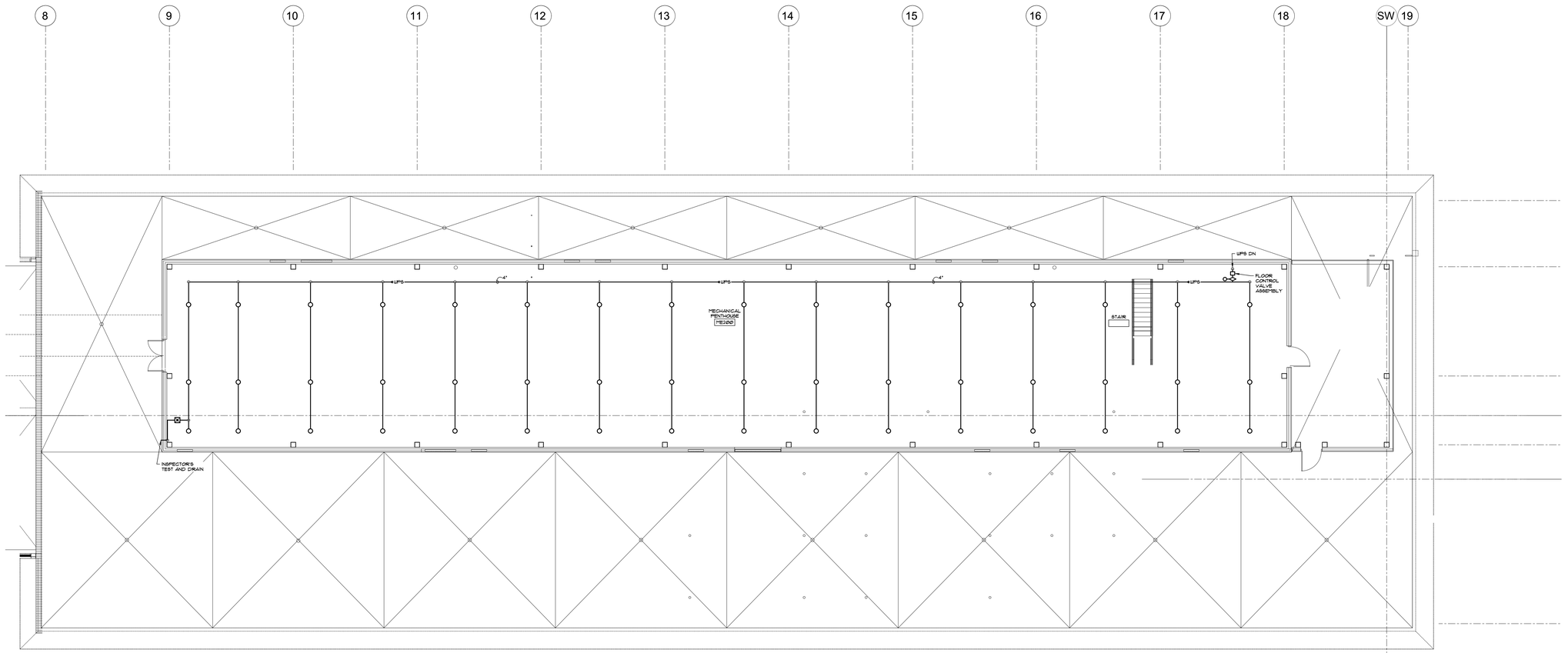
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DRAWING TITLE:

SECOND FLOOR PLAN (HEAD)

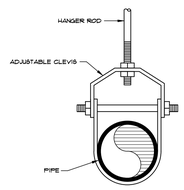
PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

FP-103



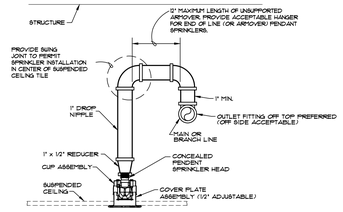
PENTHOUSE FLOOR PLAN (SHED)

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



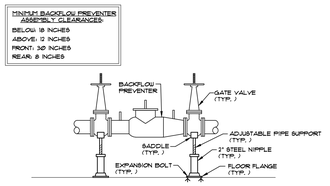
PIPING SUPPORT, SUSPENDED (CLEVIS)

SCALE: NONE



TYPICAL CONCEALED SPRINKLER ARRANGEMENT

SCALE: NONE



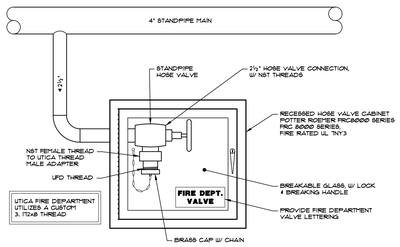
BACKFLOW PREVENTER SUPPORT

SCALE: NONE

BACKFLOW PREVENTER ASSEMBLIES SCHEDULE

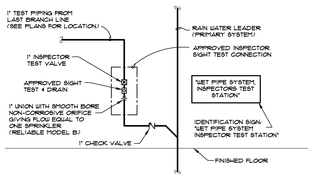
UNIT # SERV.	AREA OR SYSTEM SERVED	MFR / MODEL	TYPE (A)	NOMINAL DIMENSIONS LENGTH x WIDTH x HEIGHT IN	FLOW RATE GPM	VELOCITY FPS	PD PSI	NOMINAL SIZE IN	REMARKS
FP	FIRE PROTECTION	WATTS / 757	DCDA	44 x 21 x 44	600	5	3	6	

(A) DC -- DOUBLE CHECK VALVE
DA -- DOUBLE CHECK DETECTOR ASSEMBLY



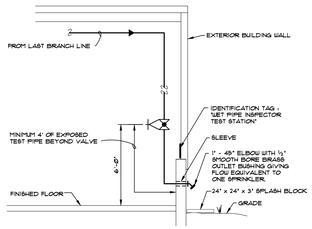
CLASS I STANDPIPE VALVE CONNECTIONS

SCALE: NONE



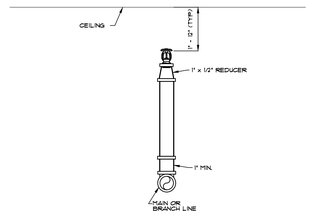
WET PIPE SPRINKLER SYSTEMS, INSPECTOR TEST DRAIN TO RAIN WATER LEADER

SCALE: NONE



WET PIPE SPRINKLER SYSTEM, INSPECTOR TEST DRAIN TO GRADE

SCALE: NONE



TYPICAL UPRIGHT SPRINKLER ARRANGEMENT

SCALE: NONE

SPRINKLERS SCHEDULE

DESIGNATION	SYSTEM SERVED	MANUFACTURER	TYPE	MODEL	NOMINAL ORIFICE INCHES	FINISH	RATING F	REMARKS
●	WET	RELIABLE	PENDENT	FPRN6	1/2	CHROME	155	QUICK RESPONSE
○	WET	RELIABLE	UPRIGHT	FPRN6	1/2	CHROME	155	QUICK RESPONSE
◑	WET	RELIABLE	CONCEALED PENDENT	QR-56	1/2	BRONZE	165	RECESSED, ① QUICK RESPONSE
⋈	WET	RELIABLE	SIDEWALL	FPRN6	1/2	CHROME	155	SEMI RECESSED, QUICK RESPONSE
⋈	WET	RELIABLE	SIDEWALL	FPRN6	1/2	BRONZE	155	QUICK RESPONSE

① COMPLETE W/ COVER PLATE
② COMPLETE W/ RECESSED ESCUTCHEON

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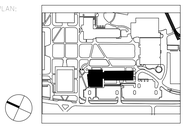
EXPIRATION DATE: 11/30/2026
STATE OF NEW YORK
CHRISTOPHER D ANGELL
087708
LICENSED PROFESSIONAL ENGINEER

ISSUE/REVISION:

NO.	DATE	COMMENTS
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KEY PLAN:



PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

PENTHOUSE FLOOR PLAN (SHED), DETAILS AND SCHEDULES

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

FP-104

LEGEND

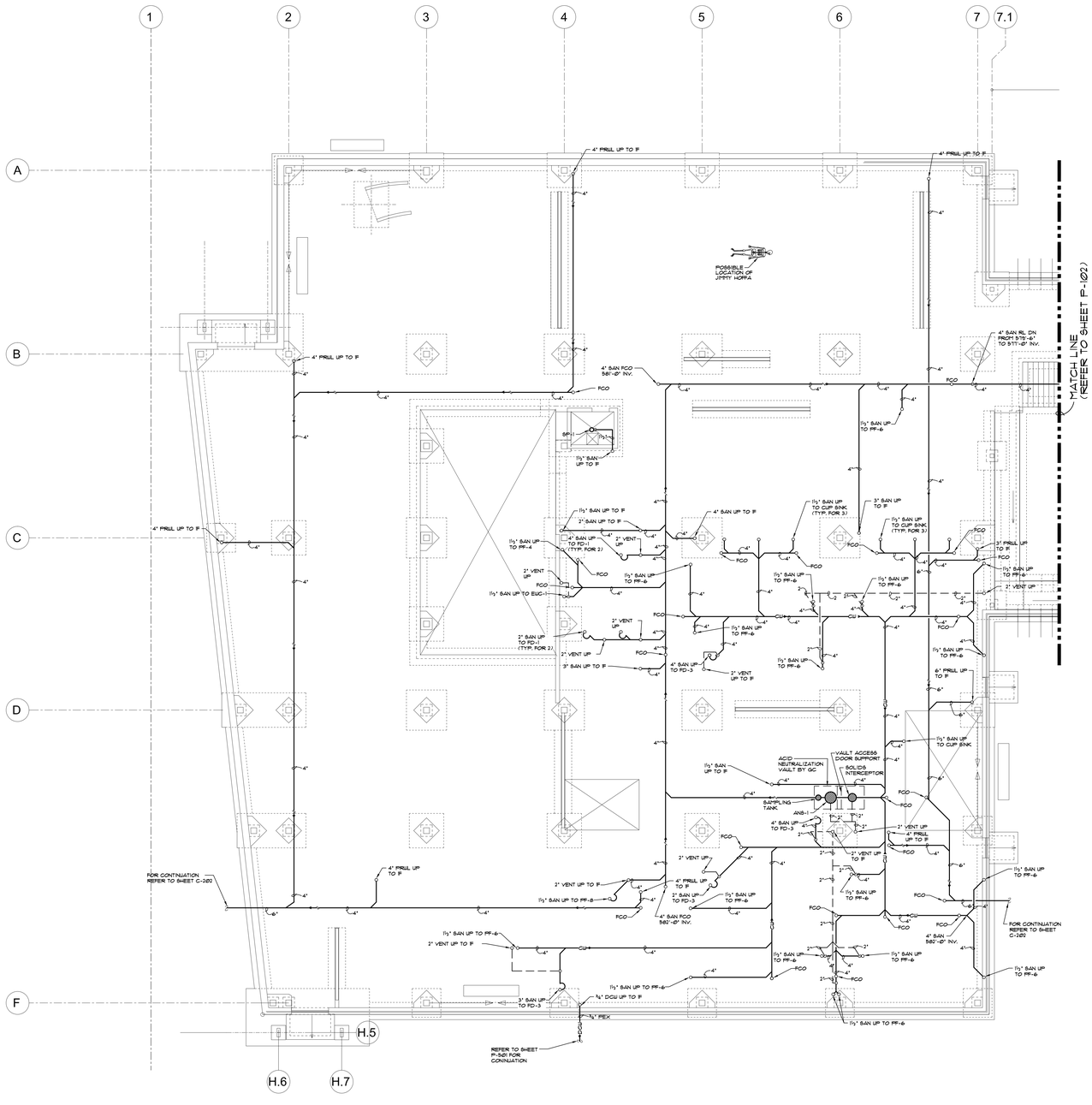
GC	-	GENERAL CONTRACTOR	PRV	-	PRESSURE REDUCING VALVE
MC	-	MECHANICAL CONTRACTOR	RV	-	RELIEF VALVE
HC	-	HEATING CONTRACTOR	BFP	-	BACK FLOW PREVENTER
PC	-	PLUMBING CONTRACTOR	BWV	-	BACK WATER VALVE
FPC	-	FIRE PROTECTION CONTRACTOR	MCV	-	MIXING CONTROL VALVE
EC	-	ELECTRIC CONTRACTOR	AST	-	ANTI SIPHON TRAP
EXIST.	-	EXISTING	FM	-	FLOW METER - Ø .5 GPM UNLESS NOTED
AFF	-	ABOVE FINISHED FLOOR	MH	-	MANHOLE
AFG	-	ABOVE FINISHED GRADE	CB	-	CATCH BASIN
INV.	-	INVERT	CO	-	CLEAN OUT
GPM	-	GALLONS PER MINUTE	FF	-	PLUMBING FIXTURE
NC	-	NORMALLY CLOSED	WC	-	WATER CLOSET
NO	-	NORMALLY OPEN	UR	-	URINAL
DCW	-	DOMESTIC COLD WATER	LAV	-	LAVATORY
DHW	-	DOMESTIC HOT WATER	SH	-	SHOWER
DHWR	-	DOMESTIC HOT WATER RETURN	BT	-	BATH TUB
	-	SANITARY DRAINAGE	MSB	-	MOP SERVICE BASIN
	-	STORM DRAINAGE	FD	-	FLOOR DRAIN
	-	SECONDARY STORM DRAINAGE	RD	-	ROOF DRAIN
IW	-	INDIRECT WASTE	WH	-	WALL HYDRANT
MA	-	MEDICAL AIR	P	-	PUMP
CA	-	COMPRESSED AIR	DWH	-	DOMESTIC WATER STORAGE HEATER
G	-	GAS	FCO	-	FLOOR CLEAN OUT
CW	-	CHEMICAL WASTE	EUC	-	ELECTRIC WATER COOLER
VAC	-	VACUUM	AR	-	ARGON
N_2O	-	NITROUS OXIDE	O2	-	OXYGEN
RLL	-	RAIN WATER LEADER	CO2	-	CARBON DIOXIDE
VTR	-	VENT THROUGH ROOF	C2H2	-	ACETYLENE

SYMBOLS

- PROPOSED
- EXISTING
- UNION
- FLANGE
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- STRAINER
- STRAINER (WITH BLOW DOWN)
- MANUAL AIR VENT
- GATE VALVE
- STOP AND WASTE VALVE
- GLOBE VALVE
- GLOBE VALVE (WITH HOSE END)
- SWING CHECK VALVE
- BALL VALVE
- LUBRICATED PLUG VALVE
- BUTTERFLY VALVE
- PRESSURE REDUCING VALVE
- RELIEF VALVE
- FLOW METER - Ø .5 GPM TYPICAL
- TRAP
- CLEANOUT (HORIZONTAL)
- CLEANOUT (VERTICAL)
- SHOCK ABSORBER
- DUAL COMPRESSED AIR OUTLET
- FLOOR DRAIN
- ROOF DRAIN
- THERMOMETER
- PRESSURE GAUGE
- CO2 DETECTION SENSOR

GENERAL NOTES

1. EXISTING MECHANICAL SYSTEM PARAMETERS (SIZES, CAPACITIES AND LOCATIONS) ARE BASED UPON INFORMATION PROVIDED BY THE OWNER. FIELD VERIFY ALL APPLICABLE ELEMENTS.
2. THOROUGHLY COORDINATE ALL WORK WITH ALL ASSOCIATED WORK EXECUTED BY 'OTHER' CONTRACTORS.
3. EXECUTE ALL WORK COMPLEMENTARY WITH AND UNOBTRUSIVE TO THE OWNER'S NEEDS AND OPERATIONS, RESPECTIVELY.
4. PROVIDE 'PROTECTION' RELATIVE TO ALL APPLICABLE WORK IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN DIVISION 1.
5. PROVIDE ALL EQUIPMENT SUPPORTS AS REQUIRED.
6. ALL SANITARY AND VENT PIPING LOCATED BELOW FLOOR SLAB SHALL BE 4" AND 2" (MINIMUM), RESPECTIVELY.
7. UNLESS OTHERWISE NOTED, SANITARY WASTE 2½" AND SMALLER SHALL PITCH DOWN IN THE DIRECTION OF FLOW ¼" PER FOOT (MINIMUM). SANITARY WASTE AND STORM PIPING 3" AND LARGER SHALL PITCH DOWN IN THE DIRECTION OF FLOW ⅛" PER FOOT (MINIMUM).
8. PC SHALL PROVIDE BALANCING OF ALL FLOW METERS TO THE FLOW RATES LISTED ON DRAWINGS. PC SHALL SUBMIT A SUMMARY OF INITIAL AND FINAL (BALANCED) FLOW READINGS TO OWNER / ENGINEER FOR REVIEW.
9. PROVIDE ALL REQUIRED CUTTING, PATCHING AND INFILL THEREAFTER, RESTORE ALL AFFECTED SURFACES TO MATCH EXISTING.
10. PIPING SYSTEMS ASSOCIATED WITH ACID NEUTRALIZING SYSTEM SHALL BE POLYPROPYLENE WITH HUBLESS FITTINGS AS MANUFACTURED BY MAG BLANE. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
11. ALL GAS VENTS SHALL BE TERMINATED COMPLETE WITH LINE SIZE MUSHROOM VENT CAPS.



ALL SANITARY PIPING UPSTREAM OF ANS-1 SHALL BE CORROSION RESISTANT POLYPROPYLENE

(583' - 6") FOUNDATION PLAN (HEAD)

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

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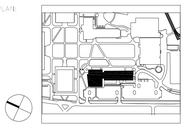
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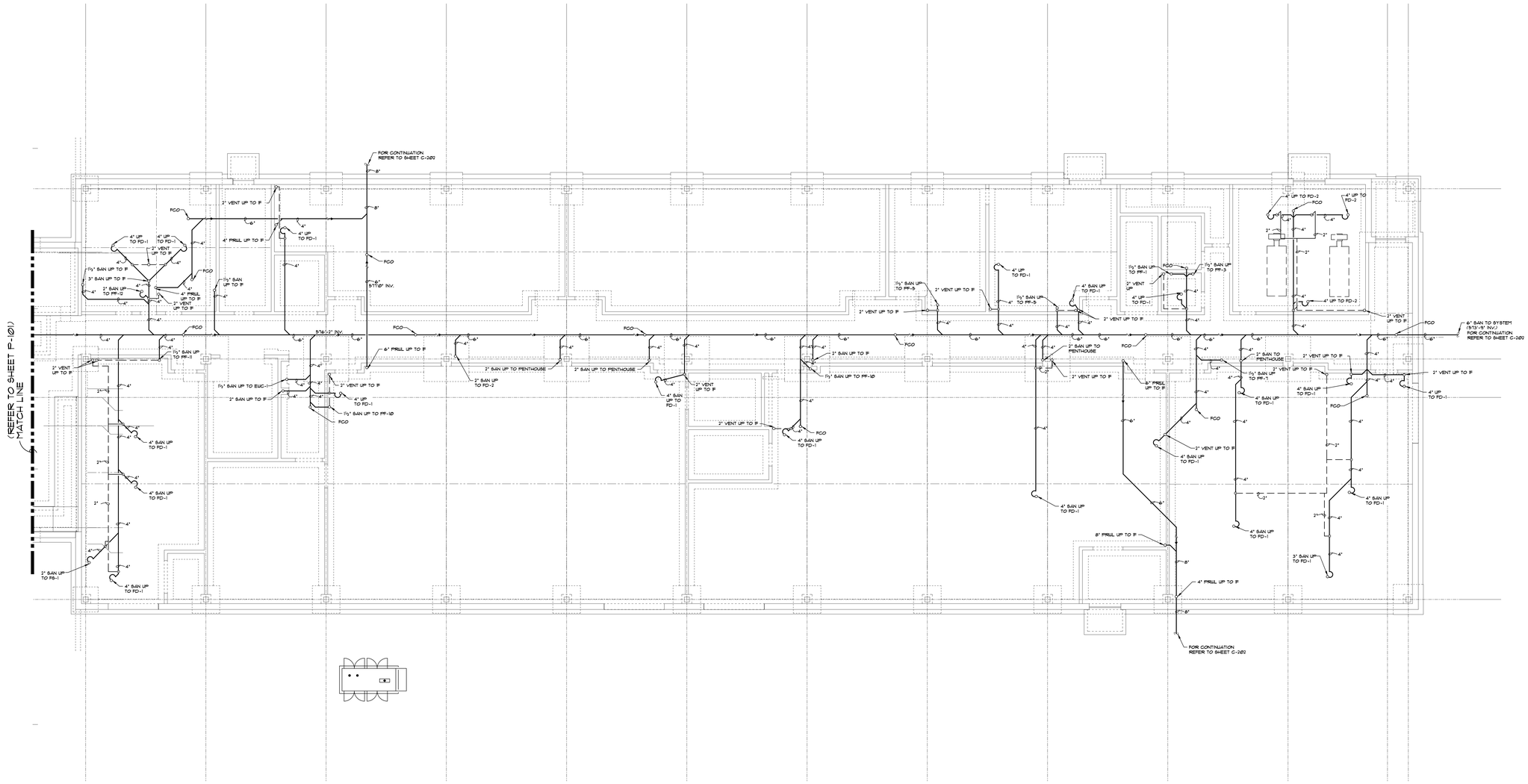
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

FOUNDATION PLAN (HEAD)

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

P-101



(578'-6") FOUNDATION PLAN (SHED)

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

NORTH

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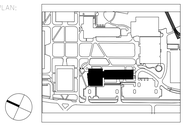
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STATE OF NEW YORK
COA # 101084 EXPIRATION DATE 2/28/2027

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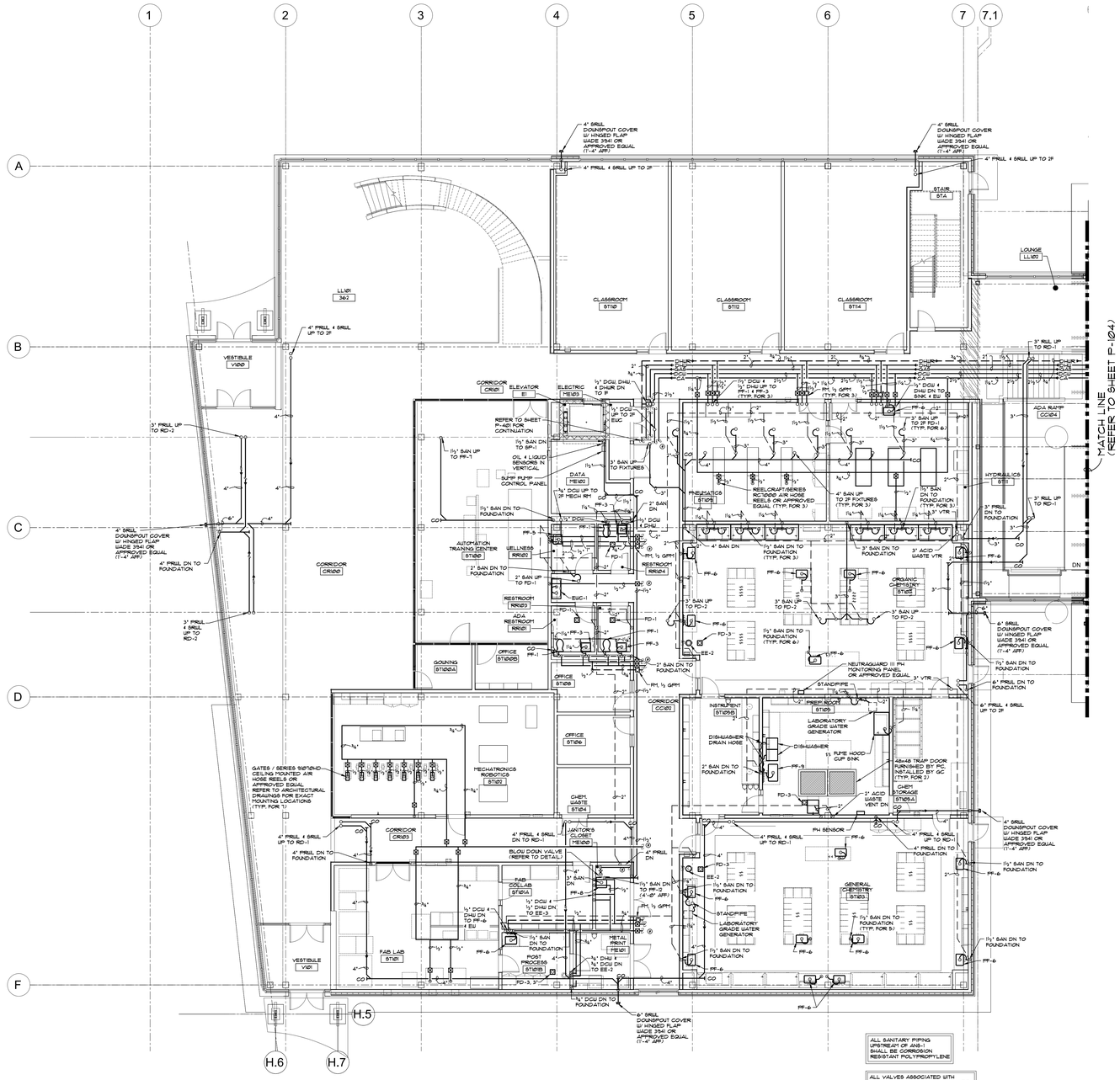
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

FOUNDATION PLAN (SHED)

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

P-102



FIRST FLOOR PLAN (HEAD)

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

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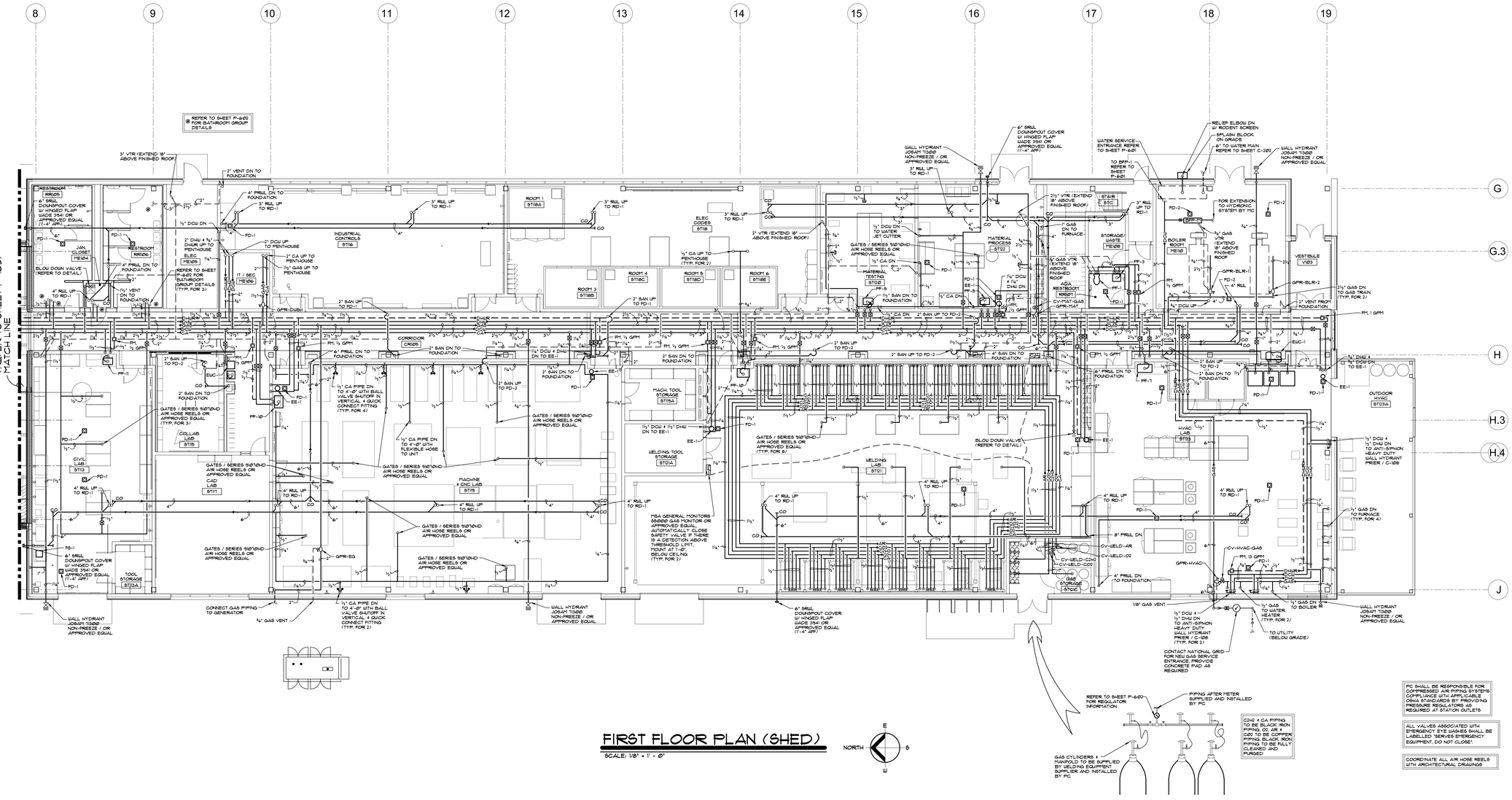
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

FIRST FLOOR PLAN (HEAD)

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

P-103



FIRST FLOOR PLAN (SHED)

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

CU-2 & CA PIPING TO BE BLACK IRON PIPING. O2, AIR & CO2 TO BE COPPER PIPING. BLACK IRON PIPING TO BE FULLY CLEANED AND PURGED

GAS STORAGE MANIFOLD (TYP. FOR ALL GASES)

MC SHALL BE RESPONSIBLE FOR COMPRESSED AIR PIPING SYSTEMS COMPLIANCE WITH APPLICABLE OSHA STANDARDS BY PROVIDING PRESSURE REGULATORS AS REQUIRED AT STATION OUTLETS

ALL VALVES ASSOCIATED WITH EMERGENCY EYE WASHES SHALL BE LABELLED 'SERVICES EMERGENCY EQUIPMENT, DO NOT CLOSE'.

COORDINATE ALL AIR HOSE REELS WITH ARCHITECTURAL DRAWINGS.

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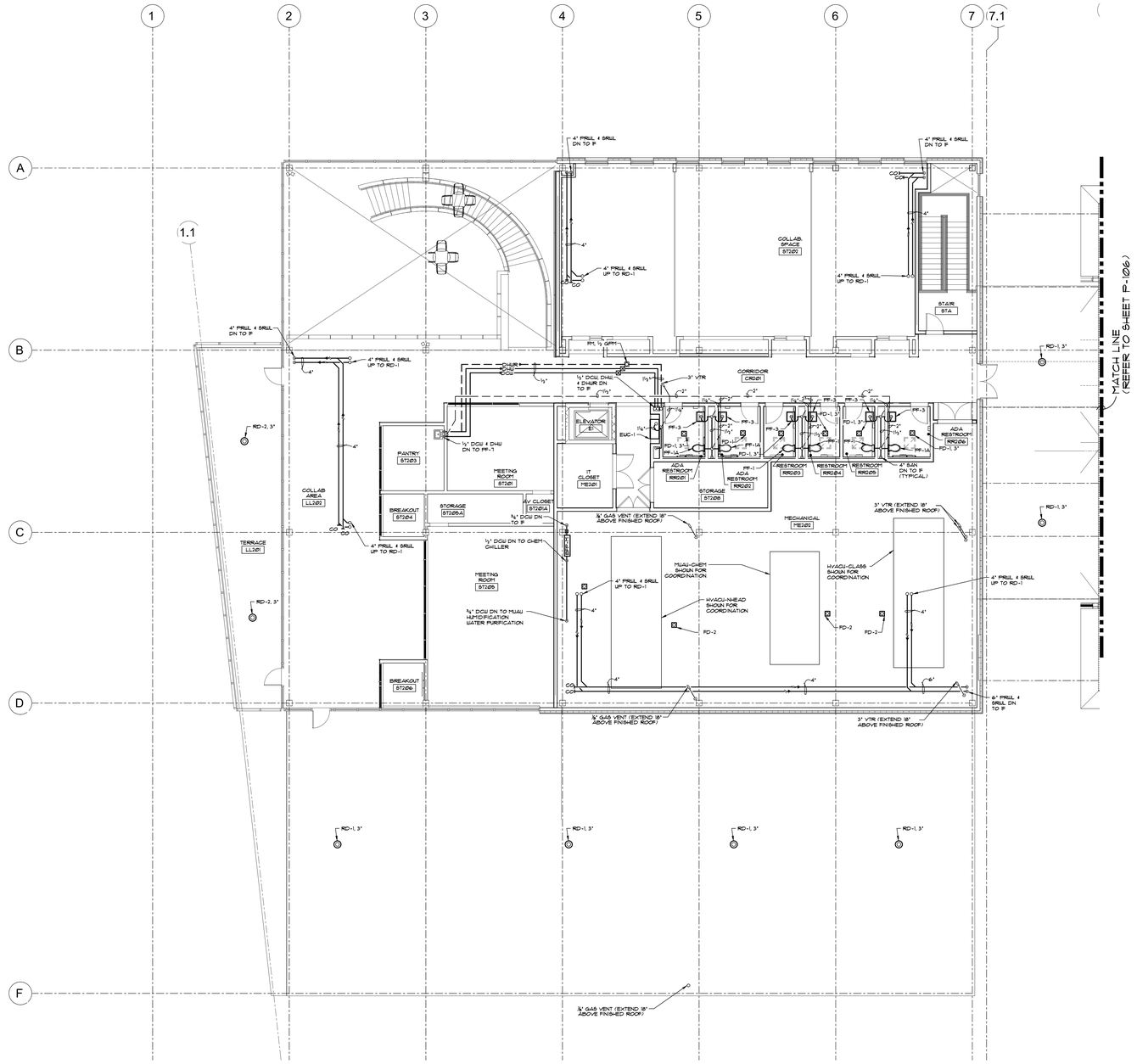
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

FIRST FLOOR PLAN (SHED)

PROJECT NO: 23000 (4038) | DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION | SCALE: AS NOTED

P-104



SECOND FLOOR PLAN (HEAD)

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

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KEY PLAN:

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PROJECT:

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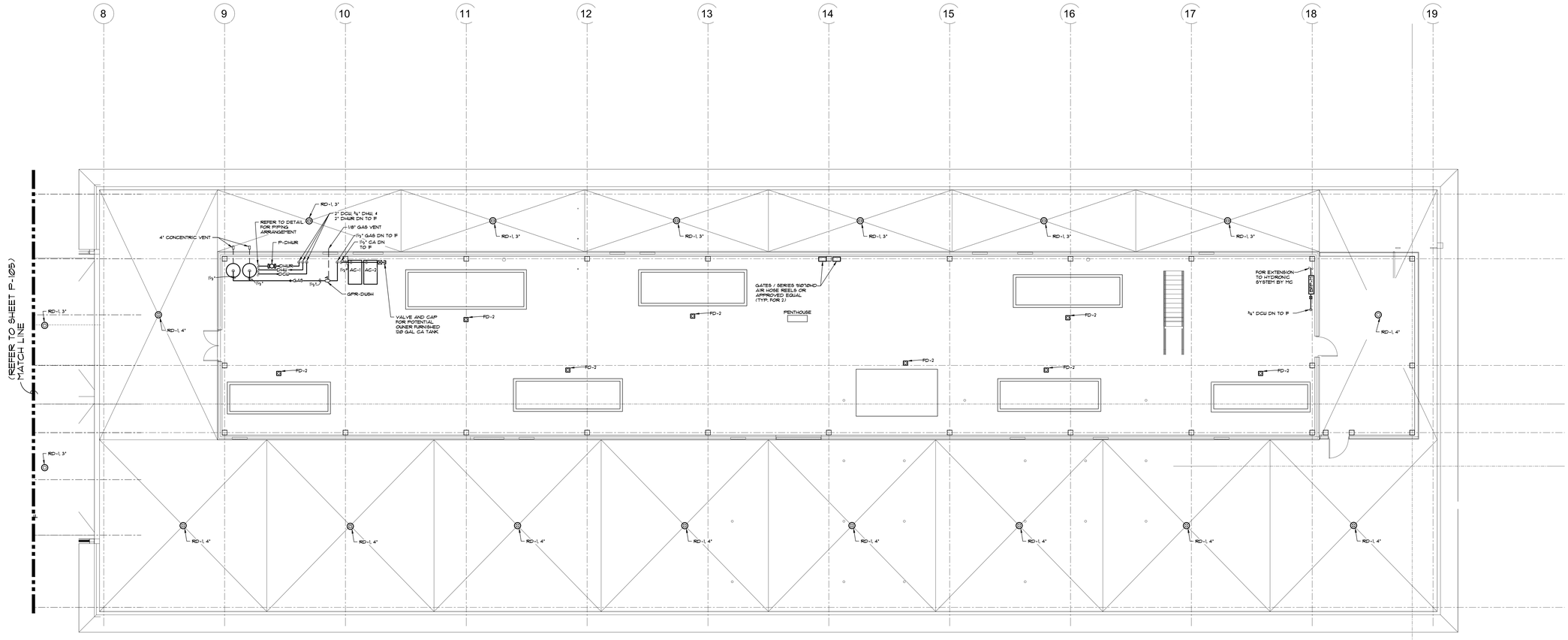
DRAWING TITLE:

SECOND FLOOR PLAN (HEAD)

PROJECT NO: 23000 (4038) | DATE: 9/23/2025

PHASE: REBID & CONSTRUCTION | SCALE: AS NOTED

P-105



PENTHOUSE FLOOR PLAN (SHED)

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

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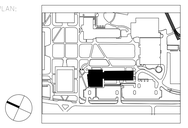
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COA # 101084 EXPIRATION DATE: 8/31/2027

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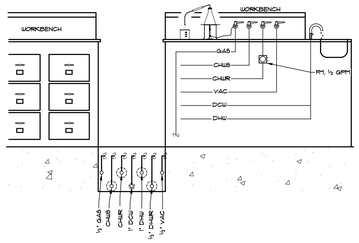
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

PENTHOUSE FLOOR PLAN (SHED)

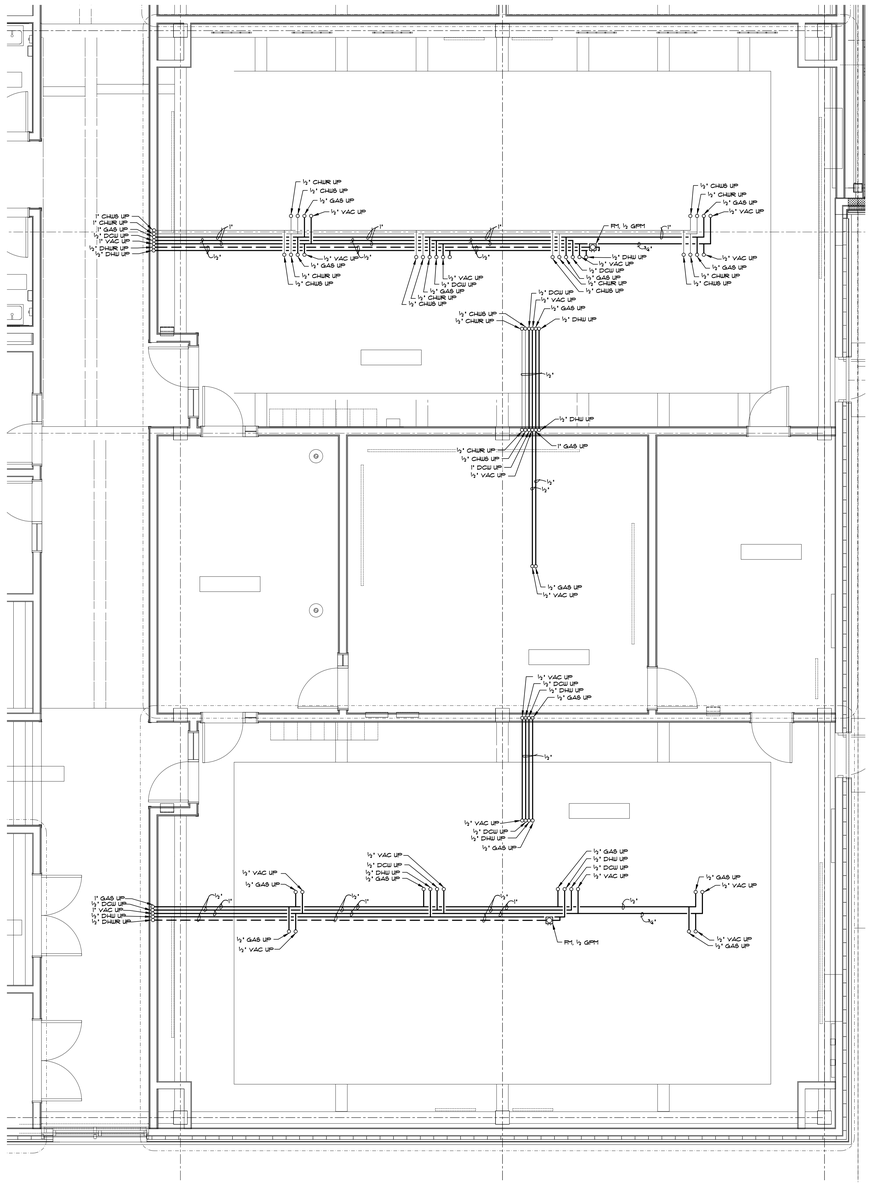
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P-106



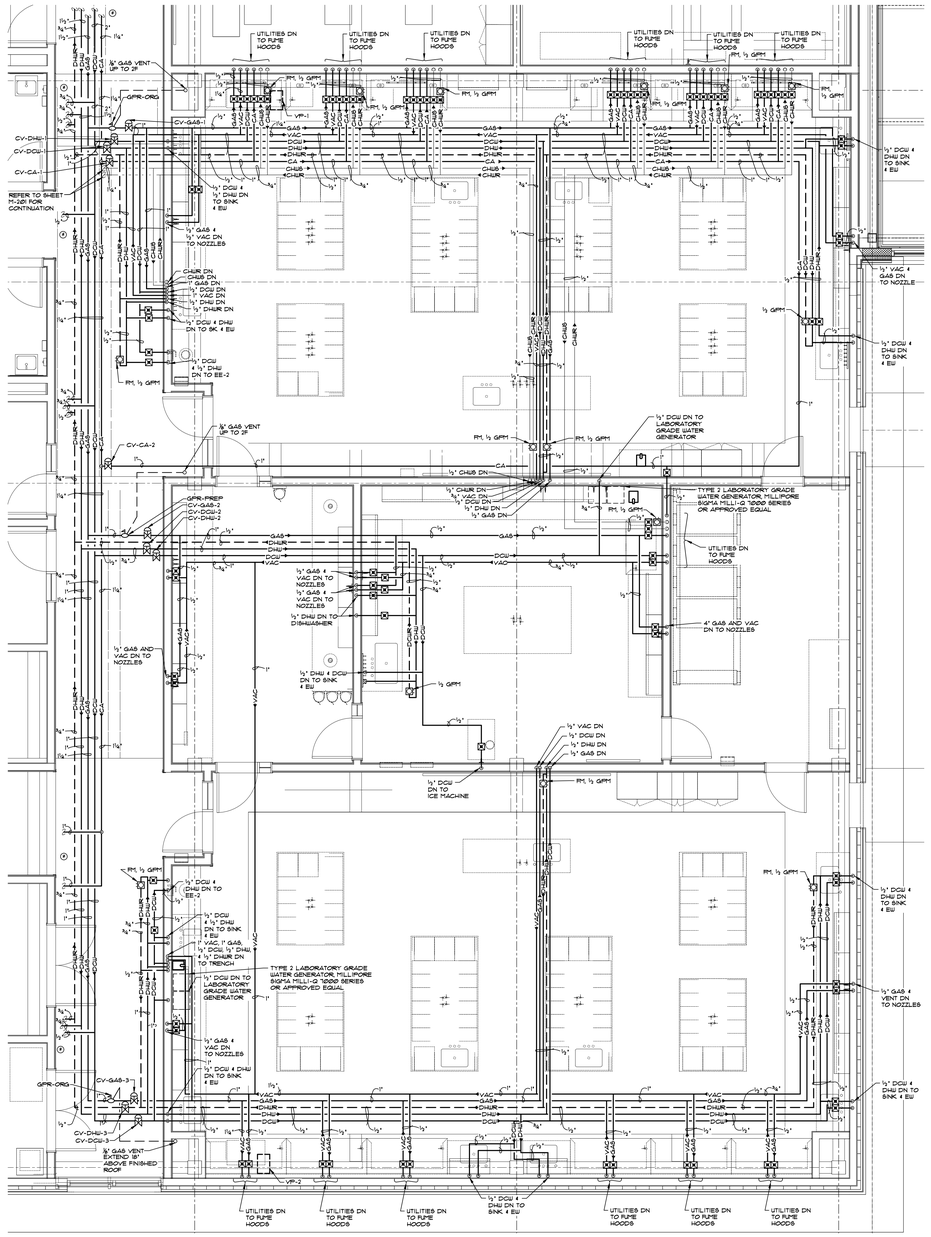
ELEVATION AT PIPE TRENCH TO WORKBENCHES

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



ENLARGED CHEMISTRY UTILITY TRENCH PLAN

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



ENLARGED CHEMISTRY OVERHEAD UTILITY PLAN

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

NORTH E S W

④ REFER TO SHEET P-103 FOR CONTINUATION

ALL CHUS & CHUR PIPING TO BE COMPLETED BY MECHANICAL CONTRACTOR

ONEIDA COUNTY NEW YORK 1798

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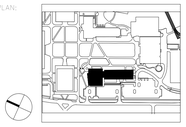
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LICENSED PROFESSIONAL ENGINEER
WILLIAM H. TOWNE
NO. 045890
STATE OF NEW YORK
COA # 100184 EXPIRATION DATE: 09/31/2027

ISSUE/REVISION		
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:



PROJECT:

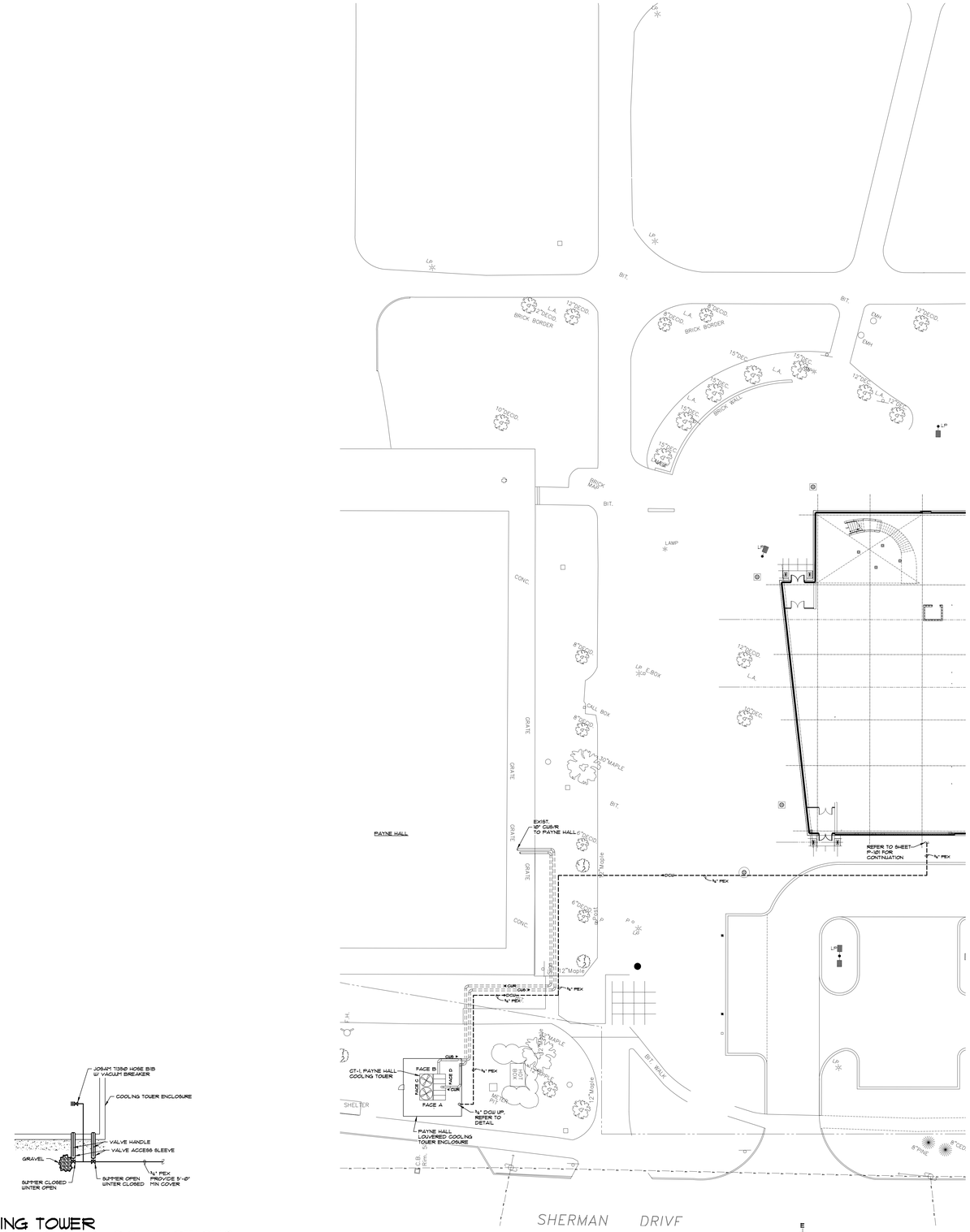
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

ENLARGED CHEMISTRY FLOOR PLANS (HEAD)

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

P-401



PARTIAL SITE PLAN

SCALE: 1" = 20'-0"

COOLING TOWER HOSE BIB PIPING CONNECTIONS

SCALE: NONE

ONEIDA COUNTY NEW YORK 1798

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SITE | CIVIL ENGINEER:
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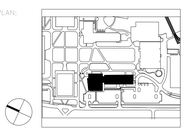
SEAL:

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UNIVERSITY OF THE STATE OF NEW YORK
COA # 100384 EXPIRATION DATE 08/31/2027

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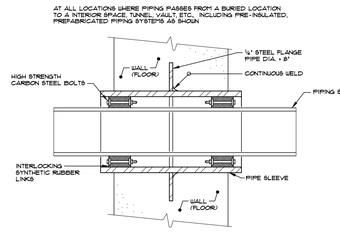
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

PARTIAL SITE PLAN

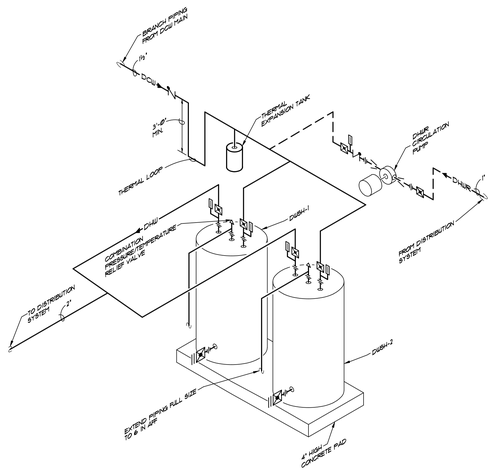
PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

P-501



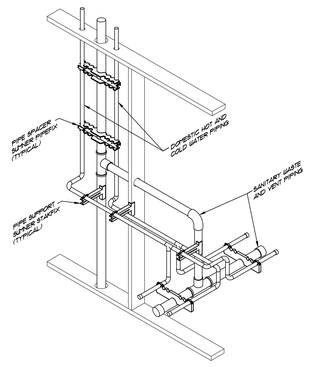
SLEEVES BELOW GRADE FLOOR AND WALL

SCALE: NONE



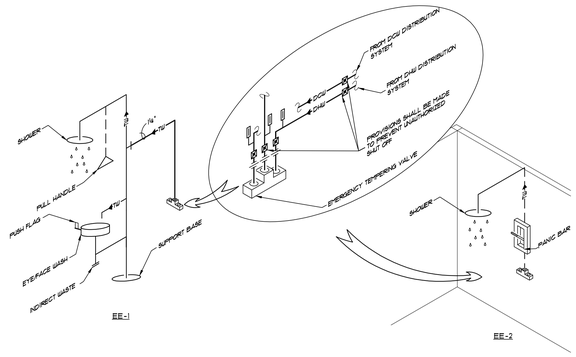
PIPING CONNECTIONS AT DOMESTIC WATER STORAGE HEATERS

SCALE: NONE



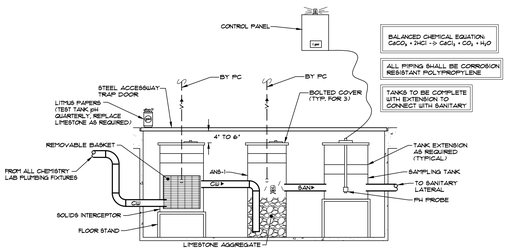
PIPING SUPPORT, TYPICAL CHASE

SCALE: NONE



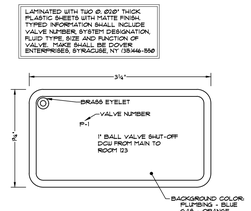
PIPING CONNECTIONS AT EMERGENCY SHOWER STATION

SCALE: NONE



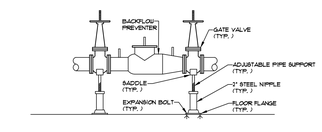
PIPING CONNECTIONS AT CHEMISTRY ACID NEUTRALIZATION SYSTEMS

SCALE: NONE



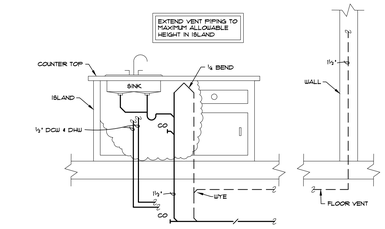
VALVE TAG

SCALE: NONE



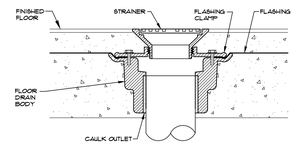
BACKFLOW PREVENTER SUPPORT

SCALE: NONE



PIPING CONNECTION AT ISLAND SINKS

SCALE: NONE

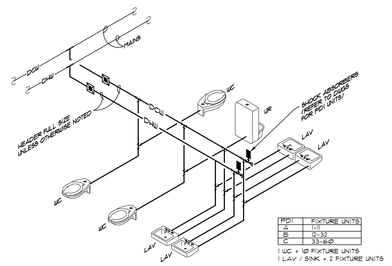


FLOOR DRAINS INSTALLATION

SCALE: NONE

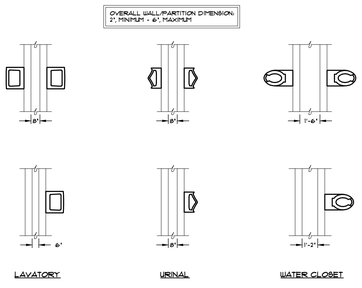
TYPICAL PIPING ARRANGEMENT AT STANDPIPES

SCALE: NONE



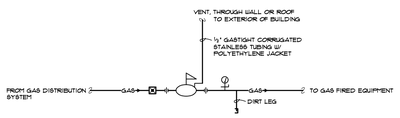
DCW / DHW ARRANGEMENT FOR TYPICAL FIXTURE GROUP (SHOCK ABSORBER ARRANGEMENT)

SCALE: NONE



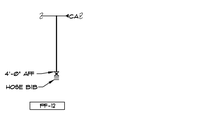
CHASE REQUIREMENTS FOR WALL HUNG FIXTURES

SCALE: NONE



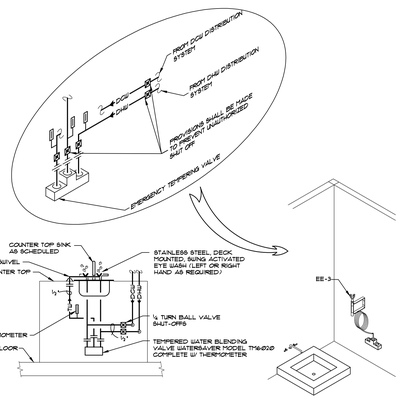
PIPING CONNECTIONS AT GAS PRESSURE REGULATORS

SCALE: NONE



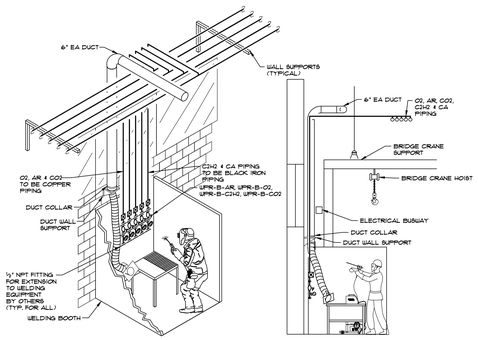
TYPICAL CA ARRANGEMENT AT BLOW DOWN VALVE

SCALE: NONE



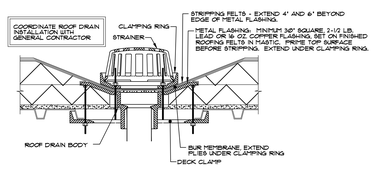
PIPING CONNECTIONS AT EYE WASH STATIONS

SCALE: NONE



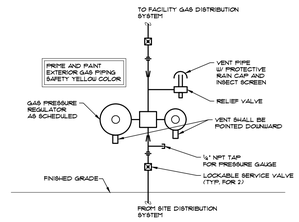
TYPICAL WELDING BOOTH ARRANGMENT

SCALE: NONE



ROOF DRAINS

SCALE: NONE



PIPING CONNECTIONS AT GAS SERVICE ENTRANCE

SCALE: NONE

ONEIDA COUNTY NEW YORK 1798

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SITE | CIVIL ENGINEER:
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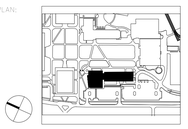
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KEY PLAN:



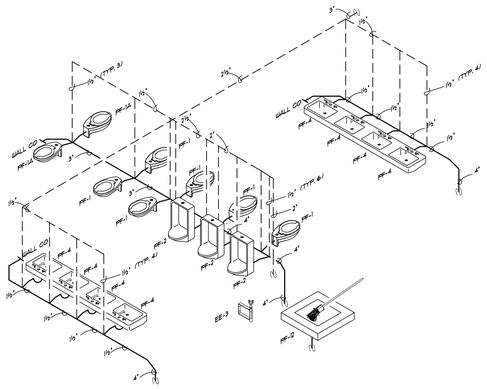
PLAN NORTH

PROJECT:
SCIENCE & TECHNOLOGY BUILDING

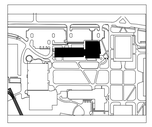
DRAWING TITLE:
SCHEDULES

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

P-601


WALL CO
WALL CO
PIPE-1
PIPE-2
PIPE-3
PIPE-4
PIPE-5
PIPE-6
PIPE-7
PIPE-8
PIPE-9
PIPE-10
PIPE-11
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PIPE-39
PIPE-40

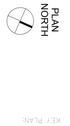
LEVEL 1 FLOOR PLAN



KEY PLAN:

PROJECT:

SCIENCE & TECHNOLOGY BUILDING



NORTH
PLAN

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MEP ENGINEER:
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SITE | CIVIL ENGINEER:
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PHASE:	REBID & CONSTRUCTION	SCALE:	AS NOTED

P-603

WELDING LAB G48 FREQUENCY REGULATING VALVES SCHEDULE

6MEC SECTION 22 52 46

UNIT # (MFR-	AREA OR SYSTEM SERVED	PRE / MODEL	G48 TYPE (A)	INT TYPE	FLOW RATE	PRESSURE DROP IN WG	OUTLET PRESSURE IN WG	PD IN WG	INLET / OUTLET IN	REMARKS
1	CHEMISTRY LABS/ 67-101 - 67-107	WATTS ORION / TB	LB	PRE	24	48	15PSI	2PSI	1"	(1)(2)(3)

1. PROVIDE 1" PRESSURE REGULATING VALVE WITH INTEGRAL PRESSURE GAUGE AND ADJUSTABLE SPRING RANGE TO MAINTAIN 15 PSIG DOWNSTREAM PRESSURE.
2. PROVIDE 1" ISOLATION BALL VALVE UPSTREAM OF REGULATING VALVE.
3. PROVIDE 1" ISOLATION BALL VALVE DOWNSTREAM OF REGULATING VALVE.

ACID NEUTRALIZATION 67GTEMP6 SCHEDULE

UNIT # (AN-	AREA OR SYSTEM SERVED	PRE / MODEL	TANK MATERIAL (A)	HEIGHT IN	DIA IN	CAPACITY GAL	PRESSURE PSIA (B)	REMARKS
1	CHEMISTRY LABS/ 67-101 - 67-107	WATTS ORION / TB	LDPE	48	24	PE	15	(1)(2)(3)

1. PROVIDE 4" PVC SCH 80 NEUTRALIZATION TANK WITH 4" PVC SCH 80 INLET AND OUTLET CONNECTIONS. PROVIDE 4" PVC SCH 80 VENT CONNECTION WITH 4" PVC SCH 80 VENT THROUGH ROOF.
2. PROVIDE 4" PVC SCH 80 DRAIN CONNECTION WITH 4" PVC SCH 80 BALL VALVE.
3. PROVIDE 4" PVC SCH 80 OVERFLOW CONNECTION WITH 4" PVC SCH 80 BALL VALVE.

(A) AN -- ACID NEUTRALIZATION TANK
(B) PE -- POLYETHYLENE
(1) COMPLETE WITH 3 GAL ACID NEUTRALIZING CARTRIDGES
(2) COMPLETE WITH 4 GAL SAMPLING TANK WITH 2" PVC SCH 80 VENT THROUGH ROOF
(3) COMPLETE WITH 2" PVC SCH 80 DRAIN TO NEUTRALIZATION TANK

BUILT-UP CONTROL VALVES SCHEDULE (2)

6MEC SECTION 22 56 16

UNIT # (CV-	EQUIPMENT OR SYSTEM SERVED	CONTROLLED VARIABLE	ARRANGEMENT 2-WAY	3-WAY	DESIGN FLOW RATE FLOW RATE GPM	C_v + 5%	BYPASS (A)	REMARKS
CHW-1	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-2	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-3	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-4	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-5	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-6	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-7	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-8	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-9	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-10	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-11	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-12	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-13	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-14	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-15	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-16	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-17	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-18	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-19	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-20	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-21	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-22	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-23	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-24	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-25	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-26	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-27	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-28	CHEM PREP ROOM	CHW	B	---	---	---	---	---
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CHW-30	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-31	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-32	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-33	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-34	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-35	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-36	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-37	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-38	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-39	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-40	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-41	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
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CHW-52	CHEM PREP ROOM	CHW	B	---	---	---	---	---
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CHW-58	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-59	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-60	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-61	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-62	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-63	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-64	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-65	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-66	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-67	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-68	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-69	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-70	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-71	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-72	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-73	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-74	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-75	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-76	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-77	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-78	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-79	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-80	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-81	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-82	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-83	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-84	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-85	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-86	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-87	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-88	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-89	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-90	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-91	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-92	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-93	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-94	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-95	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-96	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-97	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-98	CHEM PREP ROOM	CHW	B	---	---	---	---	---
CHW-99	CHEMISTRY LAB	CHW	TB	---	---	---	---	---
CHW-100	CHEM PREP ROOM	CHW	B	---	---	---	---	---

SUMP PUMPS / SEWAGE EJECTORS SCHEDULE

6MEC SECTION 22 57 23 - 23 62 23

UNIT # (SP-	EQUIPMENT OR SYSTEM SERVED	PRE / MODEL	FLOW RATE GPM	HEAD FT	PRESSURE PSIA	SUCTION IN	RPM	BHP	HP	DIA IN	DEPTH IN	REMARKS
1	PIPIST FLOOR MTAD ELEVATOR SHP	BELL & GOSSETT ELECTRODYNE	5	24	5½	---	1750	0.3	0.33	---	---	---

(A) SP -- SUMP PUMP
(B) EJ -- SEWAGE EJECTOR

WATER CLOSET SCHEDULE (A)

6MEC SECTION 22 46 46

UNIT # (WC-	PRE / MODEL	TYPE (A)	MTR IN	SPUD IN	FLUSH VALVE PRE / MODEL	OPERATION	REMARKS
1	KOHLER / K-3493	FLUSHOMETER TYPE	1"	1"	SLOAN / 111 (1)	SOL	(1)(2)
2	KOHLER / K-3493	WALL HUNG	1"	1"	SLOAN / 111 (1)	SOL	(1)(2)
3	KOHLER / K-3493	WALL HUNG	1"	1"	SLOAN / 111 (1)	SOL	(1)(2)

(A) WC -- WATER CLOSET
(B) SOL -- SOLENOID
(1) 1.28 GPF
(2) FLUSH VALVE TO BE CONCEALED IN WALL

LAVATORY SCHEDULE (A)

6MEC SECTION 22 46 46

UNIT # (LAV-	PRE / MODEL	TYPE	MTR IN	SPUD IN	FLUSH VALVE PRE / MODEL	OPERATION	REMARKS
1	KOHLER / K-2355	WALL HUNG	1"	1"	SLOAN / 111 (1)	SOL	(1)(2)
2	KOHLER / K-2355	WALL HUNG	1"	1"	SLOAN / 111 (1)	SOL	(1)(2)
3	KOHLER / K-2355	WALL HUNG	1"	1"	SLOAN / 111 (1)	SOL	(1)(2)

(A) LAV -- LAVATORY
(B) SOL -- SOLENOID
(1) 0.5 GPM
(2) INTEGRAL STOPS

DRINKING FOUNTAIN SCHEDULE

6MEC SECTION 22 47 00

UNIT # (DF-	PRE / MODEL	TYPE	MTR IN	SPUD IN	FLUSH VALVE PRE / MODEL	OPERATION	REMARKS
1	ELKAY / LZSTL8WSLK	WATTS / DPSL	1"	1"	SLOAN / 111 (1)	SOL	(1)(2)

(A) DF -- DRINKING FOUNTAIN
(B) SOL -- SOLENOID
(1) 0.5 GPM
(2) INTEGRAL STOPS

ELECTRIC WATER COOLERS SCHEDULE

6MEC SECTION 22 47 13

UNIT # (EWC-	PRE / MODEL	TYPE (A)	NOMINAL DIMENSIONS LENGTH x WIDTH x DEPTH IN	BAR #	LIFT #	EAT #	CAPACITY GPH @ 80°F	CONTROL (B)	REMARKS
1	ELKAY / LZSTL8WSLK	WALL MOUNT	37 x 19 x 39	4	1	1	8.0	50	(1)(2)

(A) EWC -- ELECTRIC WATER COOLER
(B) BF -- BOTTLE FILLER
(1) 8.0 GPH @ 80°F INLET WATER TEMPERATURE AND 50°F OUTLET WATER TEMPERATURE
(2) 1.5 GPH @ 80°F INLET WATER TEMPERATURE AND 50°F OUTLET WATER TEMPERATURE

DOMESTIC WATER STORAGE HEATERS SCHEDULE

6MEC SECTION 22 47 34

UNIT # (DWHR-	PRE / MODEL	NOMINAL DIMENSIONS DIA x HEIGHT IN	EXPANSION TANK GAL (A)	INLET SIZE	OUTLET SIZE	RECOVERY GPH	STORAGE GAL	FLUE IN	REMARKS
1	AO SMITH / CYCLONE FXH BTH-240A	33x76	23	3000000	2988000	481/2@	460	119	(1)
2	AO SMITH / CYCLONE FXH BTH-240A	33x76	---	3000000	2988000	481/2@	460	119	(1)

(A) ATTACH THERM-X-TROL 87-42VC-DD COMPLETE WITH OPTIONAL CONCENTRIC VENT KIT

AIR CONDITIONING SCHEDULE

6MEC SECTION 22 90 40

UNIT # (AC-	AREA SERVED	PRE-MODEL	NOMINAL DIMENSIONS L x W x H	AIRFLOW CFM	DISCHARGE PRESSURE PSIG	HP	REFRIGERANT CALC	OUTLET IN	REFRIGERANT (1)
1	ENTIRE BLDG	KARRIER / 48QT6	57 x 32 x 69	33	125	20	R-410	3/8	(1)
2	ENTIRE BLDG	KARRIER / 48QT6	57 x 32 x 69	33	125	20	R-410	3/8	(1)

(1) COMPLETE WITH REFRIGERATED DRYER

BACKFLOW PREVENTER A868ET-1B1.5B SCHEDULE

6MEC SECTION 22 11 23

UNIT # (BPH-	AREA OR SYSTEM SERVED	PRE / MODEL	TYPE (A)	NOMINAL DIMENSIONS L x W x H	FLOW RATE GPM	VELOCITY FPS	PD PSI	NOMINAL SIZE IN	REMARKS
D	DOMESTIC WATER 67GTEM	WATTS / 909QT	RPZ	26½x½x½@½	1@	7.5	13	3	(1)
M	MECHANICAL ROOM 16	WATTS / 009QT	RPZ	18@½x½x½@¼	13	7.5	13	1¼	(1)

(A) BPH -- BACKFLOW PREVENTER HOT WATER
(B) BPM -- BACKFLOW PREVENTER MECHANICAL
(1) PROVIDE WITH FREEZE PROTECTION KIT

(A) RZ -- REDUCED PRESSURE ZONE

DOMESTIC WATER PUMPS SCHEDULE

6MEC SECTION 22 11 23

UNIT # (DWHP-	AREA OR SYSTEM SERVED	PRE / MODEL	TYPE (A)	FLOW RATE GPM	HEAD FT	MOTOR HP	ELECTRICAL CHARACTERISTICS	REMARKS
1	FIRST FLOOR MTAD ELEVATOR SHP	BELL & GOSSETT ELECTRODYNE	5	24	5½	---	1750	0.3	0.33	---	---	---

(A) DWHP -- DOMESTIC WATER PUMP

PLUMBING FIXTURE SCHEDULE

6MEC SECTION 22 40 00

FIXTURE MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER	CARRIER	TRIM	REMARKS
WC-1	FLOOR MOUNTED, ELONGATED, FLUSHOMETER TANK TOILET, ADA COMPLIANT	AMERICAN STANDARD	2257.128	---	6065.110	(1)
WC-2	WALL HUNG, ELONGATED, FLUSHOMETER TANK TOILET, ADA COMPLIANT	AMERICAN STANDARD	2257.128	---	6065.110	(1)
LAV-1	WALL HUNG, VITREOUS CHINA LAVATORY, ADA COMPLIANT	AMERICAN STANDARD	0355.028	---	7385.000	(1)
LAV-2	WALL HUNG, VITREOUS CHINA LAVATORY, ADA COMPLIANT	AMERICAN STANDARD	0355.028	---	7385.000	(1)
SK-1	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-2	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-3	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-4	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-5	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-6	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-7	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-8	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-9	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-10	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-11	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-12	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-13	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-14	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-15	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-16	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-17	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-18	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-19	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-20	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-21	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-22	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-23	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-24	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-25	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-26	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-27	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-28	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-29	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-30	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-31	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-32	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-33	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-34	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-35	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-36	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-37	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-38	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-39	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-40	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-41	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-42	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-43	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-44	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-45	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-46	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-47	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-48	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-49	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-50	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-51	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-52	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-53	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-54	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-55	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-56	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-57	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-58	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-59	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-60	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-61	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-62	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
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SK-89	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-90	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	DLR2522101	---	LK1035GR	(1)
SK-91	SINK, STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	D

LEGEND

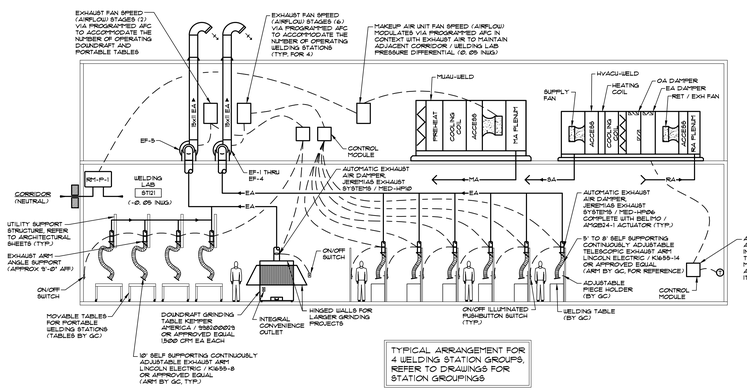
GC	- GENERAL CONTRACTOR	AOAD - AUTOMATIC OUTSIDE AIR DAMPER
MC	- MECHANICAL CONTRACTOR	ARAD - AUTOMATIC RETURN AIR DAMPER
HC	- HEATING CONTRACTOR	AEAD - AUTOMATIC EXHAUST AIR DAMPER
PC	- PLUMBING CONTRACTOR	ADCD - AUTOMATIC DRAFT CONTROL DAMPER
FPC	- FIRE PROTECTION CONTRACTOR	BDD - BACK DRAFT DAMPER
EC	- ELECTRICAL CONTRACTOR	VD - VOLUME DAMPER
EXIST.	- EXISTING	B/B - BOILER / BURNER
AFF	- ABOVE FINISHED FLOOR	CH - CHILLER
AFG	- ABOVE FINISHED GRADE	P - PUMP
GPM	- GALLONS PER MINUTE	AS - AIR SEPARATOR
CFM	- CUBIC FEET OF AIR PER MINUTE	ET - EXPANSION TANK
NC	- NORMALLY CLOSED	FM - FLOW METER
NO	- NORMALLY OPEN	APS - AIR FLOW SENSOR
HWS	- HOT WATER SUPPLY	FC - FAN COIL
HWR	- HOT WATER RETURN	VAV - VARIABLE VOLUME TERMINAL
CHWS	- CHILLED WATER SUPPLY	PHC - PREHEAT COIL
CHWR	- CHILLED WATER RETURN	HC - HEATING COIL
CGSS	- CHILLED GLYCOL SOLUTION SUPPLY	RC - REHEAT COIL
CGSR	- CHILLED GLYCOL SOLUTION RETURN	CC - COOLING COIL
HGSS	- HOT GLYCOL SOLUTION SUPPLY	CUH - CABINET UNIT HEATER
HGSR	- HOT GLYCOL SOLUTION RETURN	C - CONVECTOR
ERS	- ENERGY RECOVERY SUPPLY	UH - UNIT HEATER
ERR	- ENERGY RECOVERY RETURN	GFUH - GAS FIRED UNIT HEATER
RL	- REFRIGERANT LIQUID	EUH - ELECTRIC UNIT HEATER
RHG	- REFRIGERANT HOT GAS	FR - FIN RADIATION
RS	- REFRIGERANT SUCTION	WWHP - WATER TO WATER HEAT PUMP
G	- GAS	H - HUMIDIFIER
COND	- CONDENSATE	PRCS - PRECISION ENVIRONMENTAL CONTROL SYSTEM
EA	- EXHAUST AIR	FD - FIRE DAMPER
OA	- OUTSIDE AIR	SD - SMOKE DAMPER
RA	- RETURN AIR	HVACU - HEATING, VENTILATING AND AIR CONDITIONING UNIT
SA	- SUPPLY AIR	HVU - HEATING AND VENTILATING UNIT
TA	- TRANSFER AIR	RERF - RETURN / EXHAUST FAN
MA	- MIXED AIR	MUAU - MAKE-UP AIR UNIT
CA	- COMBUSTION AIR	EF - EXHAUST FAN
CV	- CONTROL VALVE	UFE - WELDING FUME EXHAUST
PRV	- PRESSURE REDUCING VALVE	PRV - POWER ROOF VENTILATOR
BPV	- BACK PRESSURE VALVE	PUV - POWER WALL VENTILATOR
RV	- RELIEF VALVE	F - FILTER
W/C	- VALVE WITH CHAIN OPERATOR	D - DIFFUSER
		G - GRILLE
		L - LOUVER

SYMBOLS

	- PROPOSED
	- EXISTING
	- EXISTING TO BE REMOVED
	- CONNECT TO EXISTING
	- DOOR LOUVER
	- UNDER CUT DOOR
	- UNION
	- FLANGE
	- CONCENTRIC REDUCER
	- ECCENTRIC REDUCER
	- STRAINER
	- STRAINER (WITH BLOW DOWN)
	- MANUAL AIR VENT
	- GATE VALVE
	- GLOBE VALVE
	- PLUG TYPE GLOBE VALVE
	- GLOBE VALVE (HOSE END 4 CAP)
	- SWING CHECK VALVE
	- SPRING LOADED SWING CHECK VALVE
	- LIFT CHECK VALVE
	- BALL VALVE
	- LUBRICATED PLUG VALVE
	- TRIPLE DUTY VALVE
	- BUTTERFLY VALVE
	- PRESSURE REDUCING VALVE
	- BACK PRESSURE VALVE
	- RELIEF VALVE
	- 2 - WAY CONTROL VALVE
	- 3 - WAY CONTROL VALVE
	- STEAM TRAP
	- FLOW METER
	- EXPANSION COMPENSATOR
	- FLEXIBLE CONNECTOR
	- NON-METALLIC CONNECTOR
	- PRESSURE GAUGE
	- PRESSURE GAUGE (WITH COIL SIPHON)
	- THERMOMETER
T	- THERMOSTAT, LINE VOLTAGE
T LV	- THERMOSTAT, LOW VOLTAGE
T P	- THERMOSTAT, PNEUMATIC
H	- HUMIDISTAT
T	- SPACE TEMPERATURE SENSOR
T ADJ	- SPACE TEMPERATURE SENSOR, ADJUSTABLE
T IND	- SPACE TEMPERATURE SENSOR, INDICATING
T VP	- SPACE TEMPERATURE SENSOR, VANDAL PROOF
T	- TEMPERATURE SENSOR
P	- PRESSURE SENSOR
F	- FLOW SENSOR
H	- HUMIDITY SENSOR

GENERAL NOTES

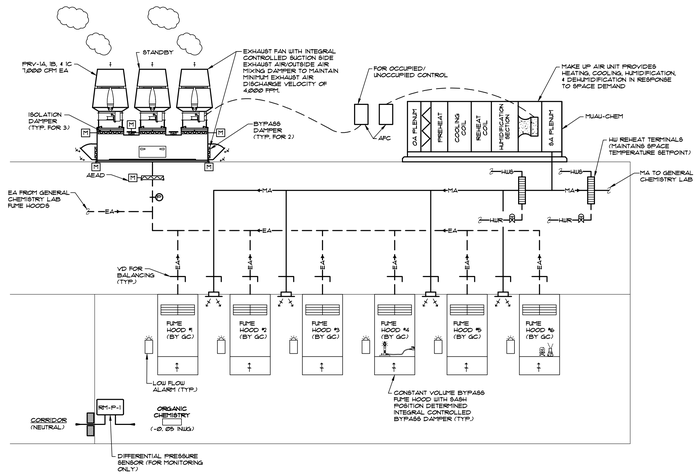
1. EXISTING MECHANICAL SYSTEMS PARAMETERS (SIZES, CAPACITIES AND LOCATIONS) ARE BASED UPON INFORMATION PROVIDED BY THE OWNER. FIELD VERIFY ALL APPLICABLE ELEMENTS.
2. THOROUGHLY COORDINATE WORK WITH ALL ASSOCIATED WORK EXECUTED BY "OTHER" CONTRACTORS.
3. EXECUTE ALL WORK IN A FASHION COMPLIMENTARY WITH AND UNOBTRUSIVE TO THE OWNER'S NEEDS AND OPERATIONS, RESPECTIVELY.
4. PROVIDE "PROTECTION" RELATIVE TO ALL APPLICABLE WORK IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN DIVISION 1.
5. PROVIDE ALL REQUIRED CUTTING, PATCHING AND INFILL, THEREAFTER, RESTORE ALL AFFECTED SURFACES TO MATCH EXISTING.
6. BLANK-OFF OPENINGS IN EXISTING DUCTWORK, PLENUMS, FAN SYSTEM CASINGS, ETC. TO INSURE AN AIR-TIGHT SEAL.
7. PIPING AND DUCTWORK ELEVATIONS SHOWN ARE APPROXIMATE, FIELD VERIFY AND MODIFY AS REQUIRED TO SUIT ACTUAL CONDITIONS.
8. SANITARY WASTE AND COOLING HEAT TRANSFER SURFACE CONDENSATE DRAINAGE PIPING SHALL PITCH DOWN IN THE DIRECTION OF FLOW, ¼ INCH PER FOOT, MINIMUM.



TYPICAL ARRANGEMENT FOR 4 WELDING STATION GROUPS, REFER TO DRAWINGS FOR STATION GROUPINGS

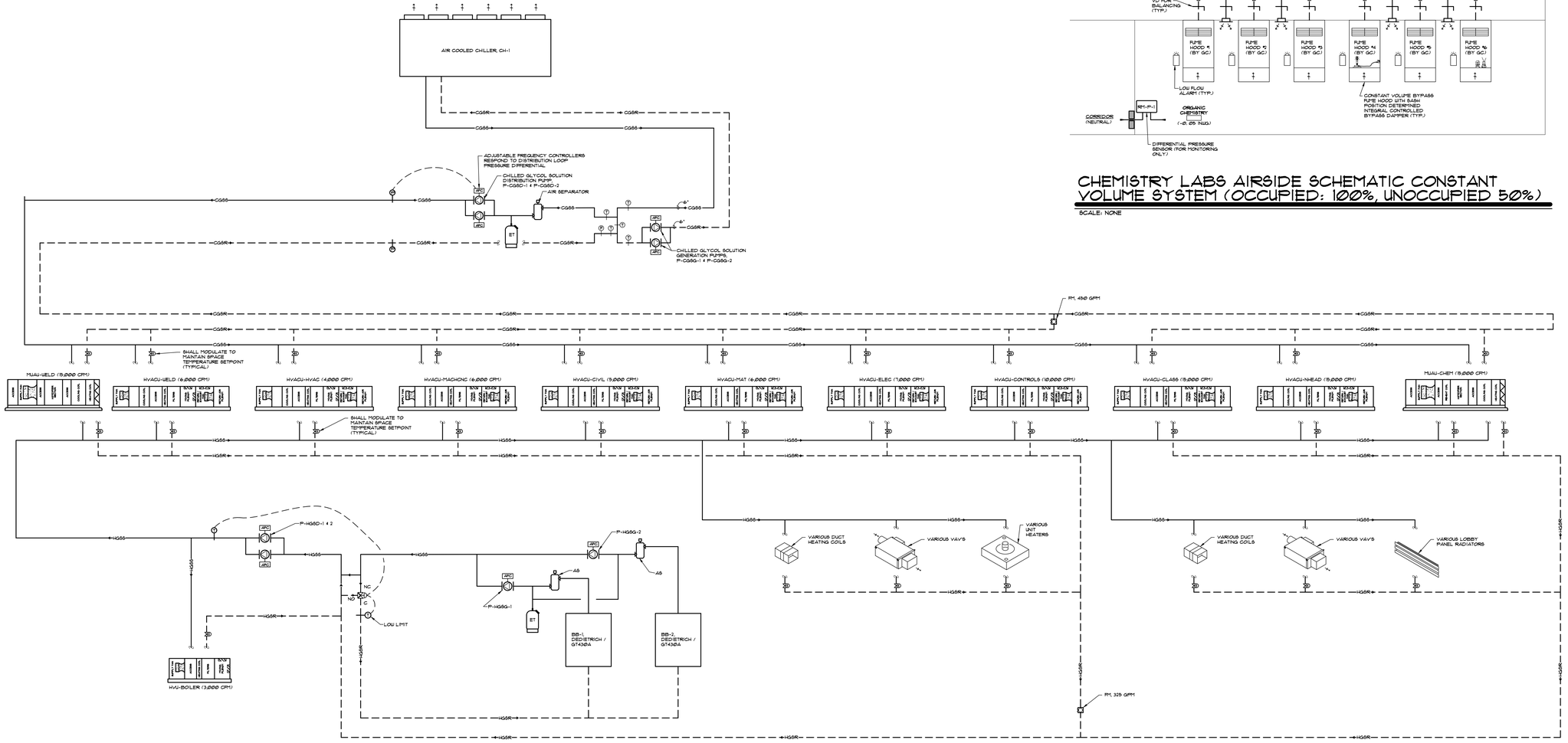
WELDING LAB AIRSIDE SYSTEMS SCHEMATIC

SCALE: NONE



CHEMISTRY LABS AIRSIDE SCHEMATIC CONSTANT VOLUME SYSTEM (OCCUPIED: 100%, UNOCCUPIED 50%)

SCALE: NONE



PROPOSED MECHANICAL SYSTEMS SCHEMATIC

SCALE: NONE

ONEIDA COUNTY NEW YORK 1798

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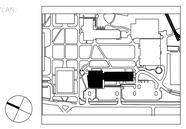
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ISSUE/REVISION		
NO.	DATE	COMMENTS
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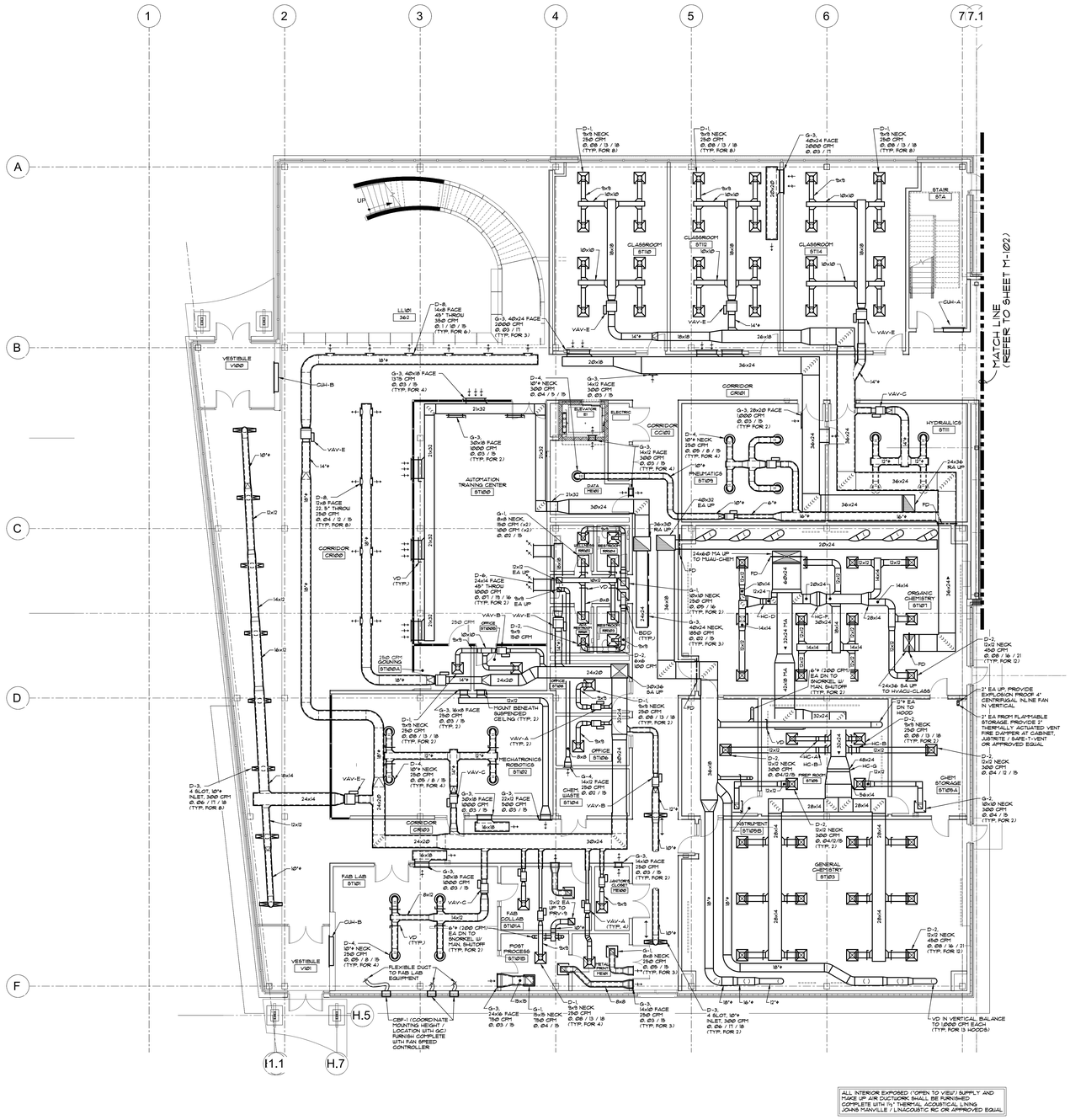
PLAN NORTH

PROJECT:
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:
PROPOSED MECHANICAL SYSTEMS SCHEMATIC

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

M-001



FIRST FLOOR PLAN (HEAD) DUCTWORK

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

NORTH

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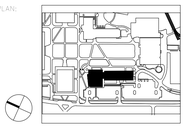
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WILLIAM H. TOWNE
NO. 045890
UNIVERSITY OF THE STATE OF NEW YORK
COA # 100384 EXPIRATION DATE 08/31/2027

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KEY PLAN:



PLAN NORTH

PROJECT:

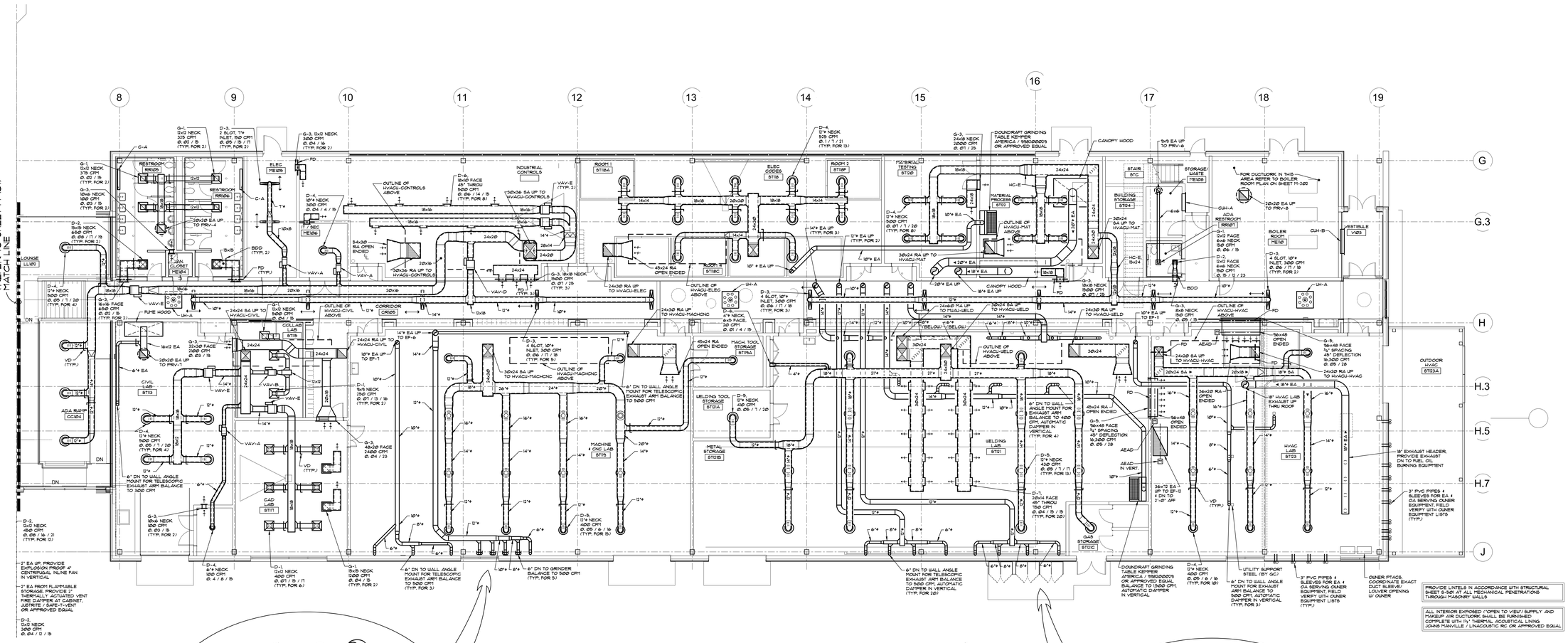
SCIENCE & TECHNOLOGY BUILDING

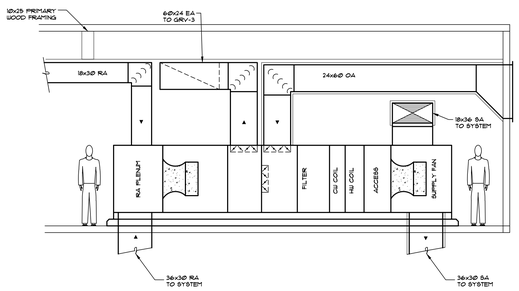
DRAWING TITLE:

FIRST FLOOR PLAN (HEAD) DUCTWORK

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

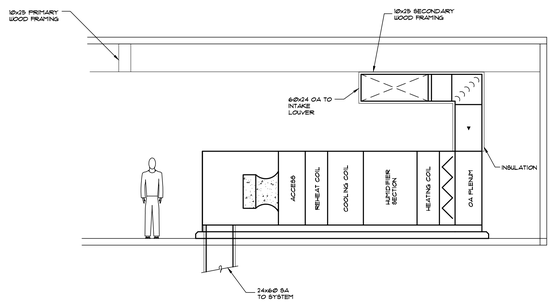
M-101


8
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14
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16
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18
19
G
G.3
H
H.3
H.5
H.7
J
(REFER TO SHEET M-101) MATCH LINE
LOUNGE LL102
RESTROOM RR105
RESTROOM RR106
JAN. CLOSET TR104
ELEC ME105
ELEC ME106
INDUSTRIAL CONTROLS
ROOM 1 ST118A
ROOM 2 ST118B
ROOM 3 ST118C
ELEC CODES ST118
MATERIAL TESTING ST120
MATERIAL PROCESS ST122
BUILDING STORAGE ST124
STAIR ST
STORAGE/ WASTE ME108
ADA RESTROOM RR107
BOILER ROOM ME110
VESTIBULE VI103
CORRIDOR CR105
COLLAB LAB ST115
CIVIL LAB ST113
ADA RAMP CC104
CAD LAB ST111
WELDING TOOL STORAGE ST121A
MACH. TOOL STORAGE ST119A
MACHINE 4 CNC LAB ST119
METAL STORAGE ST121B
WELDING LAB ST121
HVAC LAB ST123
GAS STORAGE ST121C
OUTDOOR HVAC ST123A
DOUNDRAFT GRINDING TABLE KEMPER AMERICA / 9960000078 OR APPROVED EQUAL
CANOPY HOOD
FOR DUCTWORK IN THIS AREA REFER TO BOILER ROOM PLAN ON SHEET M-202
6" DN TO WALL ANGLE MOUNT FOR TELESCOPIC EXHAUST ARM BALANCE TO 500 CFM
6" DN TO WALL ANGLE MOUNT FOR TELESCOPIC EXHAUST ARM BALANCE TO 500 CFM (TYP. FOR 3)
6" DN TO GRINDER BALANCE TO 500 CFM (TYP. FOR 5)
6" DN TO WALL ANGLE MOUNT FOR TELESCOPIC EXHAUST ARM BALANCE TO 500 CFM, AUTOMATIC DAMPER IN VERTICAL (TYP. FOR 2)
6" DN TO WALL ANGLE MOUNT FOR EXHAUST ARM BALANCE TO 400 CFM, AUTOMATIC DAMPER IN VERTICAL (TYP. FOR 4)
6" DN TO WALL ANGLE MOUNT FOR EXHAUST ARM BALANCE TO 500 CFM, AUTOMATIC DAMPER IN VERTICAL (TYP. FOR 3)
UTILITY SUPPORT STEEL (BY GC)
3" PVC PIPES 4 SLEEVES FOR EA 4 OA SERVING OWNER EQUIPMENT, FIELD VERIFY WITH OWNER EQUIPMENT LISTS (TYP.)
18" EXHAUST HEADER, PROVIDE EXHAUST DN TO FUEL OIL BURNING EQUIPMENT
OWNER PTACS, COORDINATE EXACT DUCT SLEEVES/ LOUVER OPENING W/ OWNER
PROVIDE LINTELS IN ACCORDANCE WITH STRUCTURAL SHEET S-3401 AT ALL MECHANICAL PENETRATIONS THROUGH MASONRY WALLS
ALL INTERIOR EXPOSED ("OPEN TO VIEW") SUPPLY AND MAKEUP AIR DUCTWORK SHALL BE FURNISHED COMPLETE WITH 1½" THERMAL ACOUSTICAL LINING JOHNS MANVILLE / LINACOUSTIC RC OR APPROVED EQUAL
2" EA UP, PROVIDE EXPLOSION PROOF 4" CENTRIFUGAL INLINE FAN IN VERTICAL
2" EA FROM FLAMMABLE STORAGE, PROVIDE 2" THERMALLY ACTUATED VENT FIRE DAMPER AT CABINET, JUSTRITE / SAFE-T-VENT OR APPROVED EQUAL
D-2, 12x12 NECK, 1600 CFM, Ø .024 / 12 / 15
D-2, 12x12 NECK, 450 CFM, Ø .029 / 16 / 21 (TYP. FOR 12)
D-2, 12x12 NECK, 325 CFM, Ø .032 / 15 (TYP. FOR 2)
D-3, 2 SLOT, 11"ø INLET, 1140 CFM, Ø .029 / 11 / 15 (TYP. FOR 2)
D-3, 4 SLOT, 10"ø INLET, 1600 CFM, Ø .026 / 11 / 18 (TYP. FOR 5)
D-3, 4 SLOT, 10"ø INLET, 1600 CFM, Ø .026 / 11 / 18 (TYP. FOR 3)
D-4, 12"ø NECK, 525 CFM, Ø .017 / 11 / 21 (TYP. FOR 13)
D-4, 12"ø NECK, 1600 CFM, Ø .017 / 20 (TYP. FOR 8)
D-4, 12"ø NECK, 1600 CFM, Ø .029 / 11 / 20 (TYP. FOR 4)
D-4, 12"ø NECK, 1600 CFM, Ø .029 / 11 / 20 (TYP. FOR 4)
D-4, 10"ø NECK, 1200 CFM, Ø .024 / 4 / 15
D-4, 6"ø NECK, 350 CFM, Ø .4 / 8 / 15
D-4, 12"ø NECK, 1600 CFM, Ø .029 / 16 / 16 (TYP. FOR 4)
D-5, 12"ø NECK, 400 CFM, Ø .029 / 11 / 16 (TYP. FOR 15)
D-6, 18x18 FACE 45° THROW, 1600 CFM, Ø .026 / 14 / 15 (TYP. FOR 8)
D-7, 12x14 FACE 45° THROW, 1360 CFM, Ø .024 / 15 / 15 (TYP. FOR 28)
D-1, 9x9 NECK, 250 CFM, Ø .017 / 13 / 16 (TYP. FOR 2)
D-1, 12x12 NECK, 400 CFM, Ø .017 / 15 / 17 (TYP. FOR 6)
D-1, 12x12 NECK, 500 CFM, Ø .017 / 15 / 17 (TYP. FOR 2)
G-1, 12x12 NECK, 325 CFM, Ø .032 / 15 (TYP. FOR 2)
G-1, 12x12 NECK, 500 CFM, Ø .017 / 15 (TYP. FOR 2)
G-1, 8x8 NECK, 1200 CFM, Ø .04 / 15 (TYP. FOR 2)
G-2, 32x32 FACE, 2800 CFM, Ø .03 / 15
G-3, 12x6 NECK, 200 CFM, Ø .03 / 15 (TYP. FOR 2)
G-3, 18x8 NECK, 500 CFM, Ø .017 / 25 (TYP. 3)
G-3, 18x18 NECK, 1600 CFM, Ø .017 / 28
G-3, 24x18 NECK, 2000 CFM, Ø .017 / 25
G-3, 48x20 FACE, 2400 CFM, Ø .04 / 23
G-3, 8x8 NECK, 150 CFM, Ø .04 / 15 (TYP. FOR 2)
G-3, 12x6 NECK, 200 CFM, Ø .03 / 15 (TYP. FOR 2)
G-3, 16x16 FACE, 650 CFM, Ø .02 / 15 (TYP. FOR 2)
G-5, 96x48 FACE ¾" SPACING 45° DEFLECTION W.300 CFM, Ø .05 / 28
G-5, 72x48 FACE ¾" SPACING 45° DEFLECTION W.300 CFM, Ø .05 / 28
G-5, 96x48 FACE ¾" SPACING 45° DEFLECTION W.300 CFM, Ø .05 / 28
24x24 RA UP TO HVACU-CIVIL
24x24 RA UP TO HVACU-ELEC
24x30 RA UP TO HVACU-MACHCNC
24x48 RA UP TO HVACU-WELD
24x30 RA UP TO HVACU-MAT
24x24 RA UP TO HVACU-HVAC
24x30 RA UP TO EF-1
24x24 RA UP TO EF-6
24x24 RA UP TO EF-11
24x24 RA UP TO EF-12
24x24 RA UP TO HVACU-CONTROLS
30x36 RA UP TO HVACU-CONTROLS
24x24 RA OPEN ENDED
49x24 RA OPEN ENDED
45x24 RA OPEN ENDED
96x48 OPEN ENDED
24x20 RA OPEN ENDED
24x24 RA UP TO HVACU-HVAC
24x20 RA UP TO HVACU-HVAC
24x24 RA UP TO HVACU-HVAC
24x24 RA UP TO HVACU-HVAC
24x24



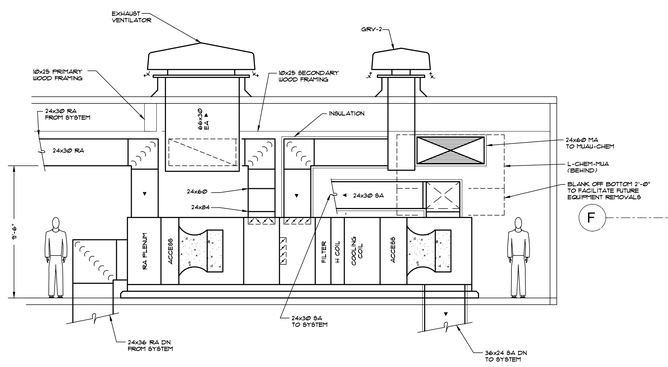
ELEVATION AT HVAC-NHEAD LOOKING SOUTH

SCALE: 1/4" = 1' - Ø"



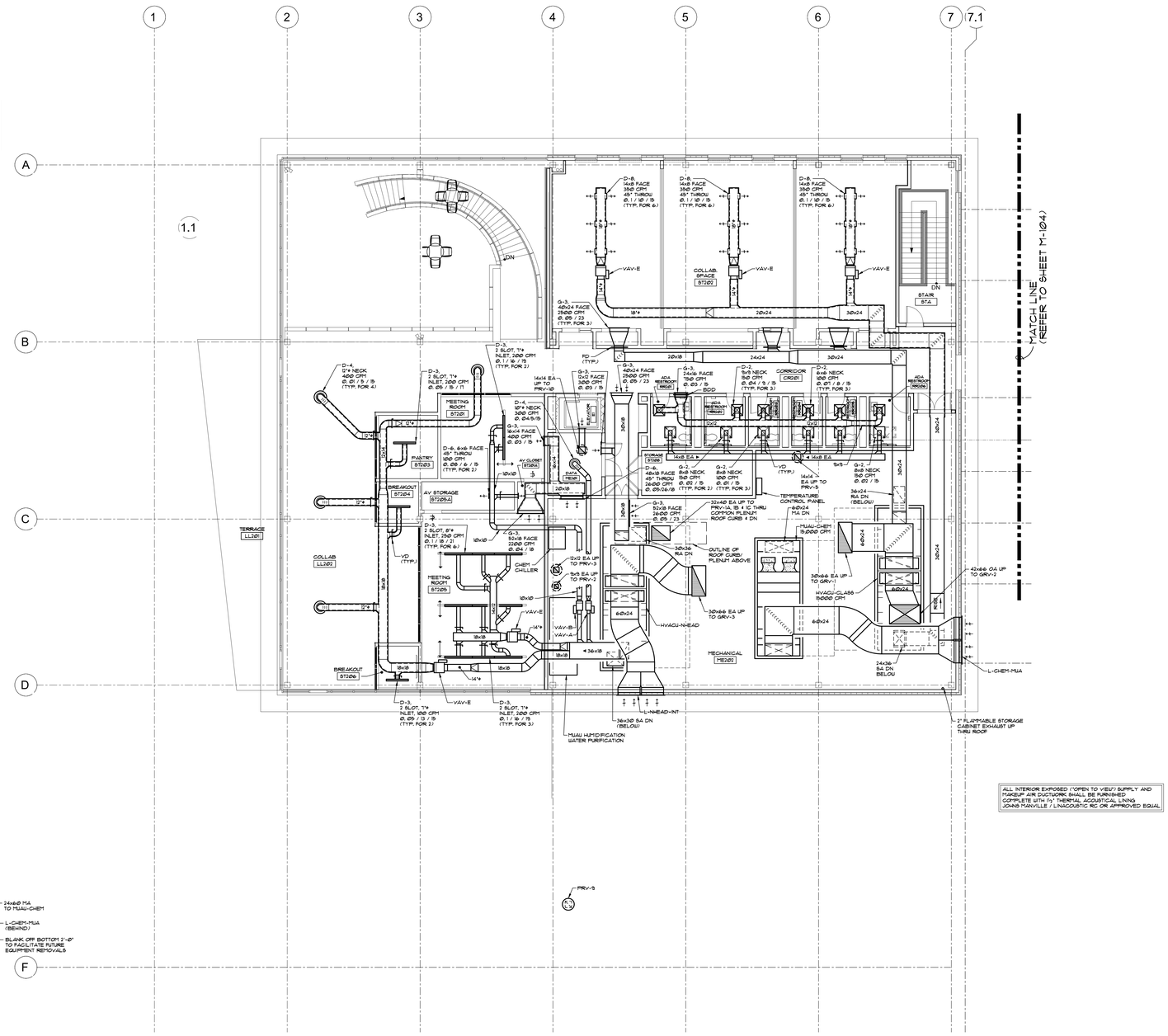
ELEVATION AT MUAU-CHEM LOOKING SOUTH

SCALE: 1/4" = 1' - Ø"



ELEVATION AT HVACU-CLASS LOOKING SOUTH

SCALE: 1/4" = 1' - Ø"



ALL INTERIOR EXPOSED ("OPEN TO VIEW") SUPPLY AND "MAKEUP AIR DUCTWORK SHALL BE FURNISHED COMPLETE WITH 1½" THERMAL ACOUSTICAL LINING JOHNS MANVILLE / LINACOUSTIC RC OR APPROVED EQUAL

SECOND FLOOR PLAN (HEAD) DUCTWORK

SCALE: 1/8" = 1' - Ø"

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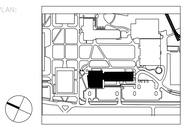
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COA # 100384 EXPIRATION DATE 08/31/2027

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KEY PLAN:



PLAN NORTH

PROJECT:

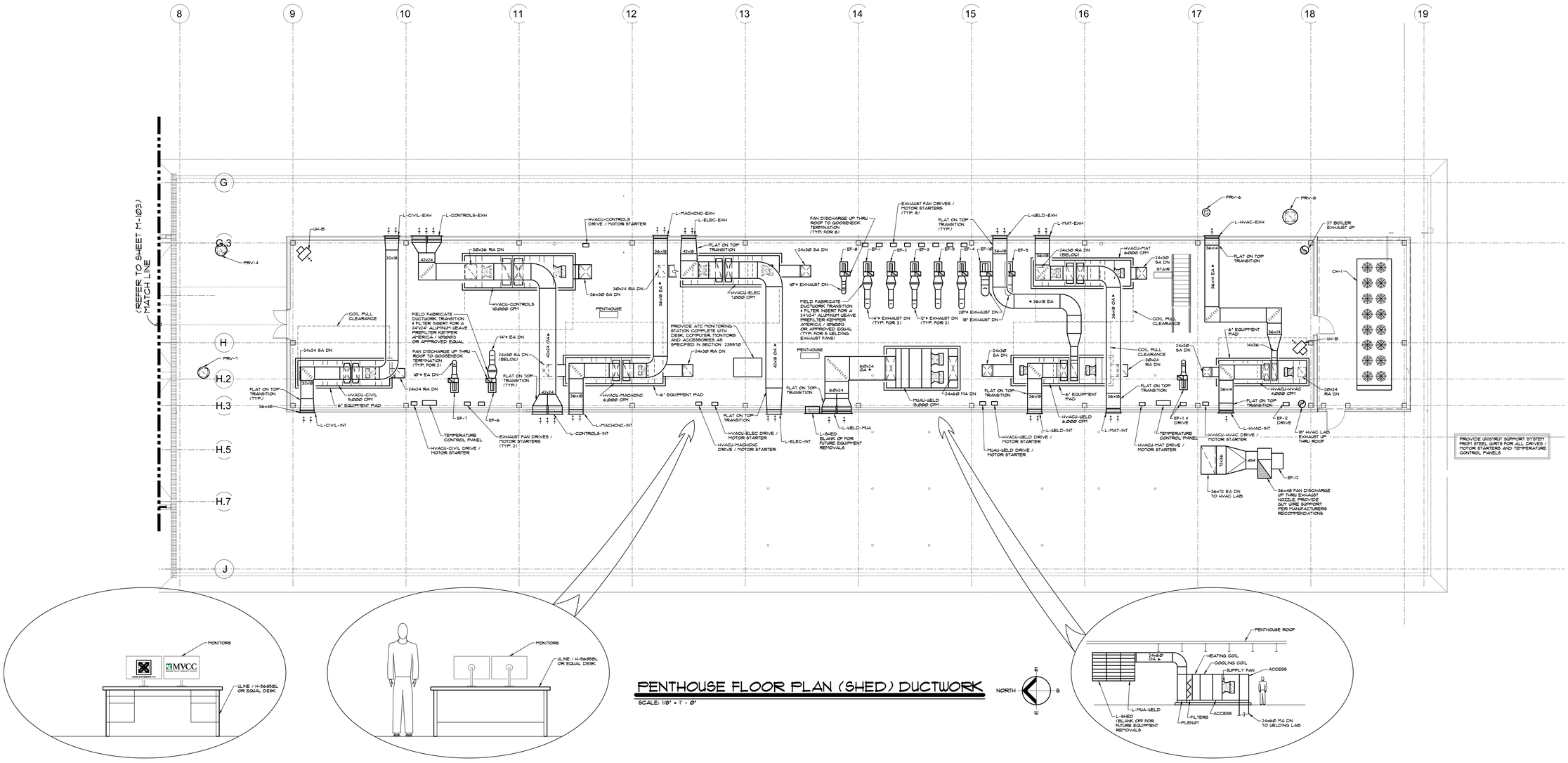
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

SECOND FLOOR PLAN (HEAD) DUCTWORK

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

M-103



PENTHOUSE FLOOR PLAN (SHED) DUCTWORK

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

AUTOMATIC TEMPERATURE CONTROLS MONITORING STATION LOOKING EAST

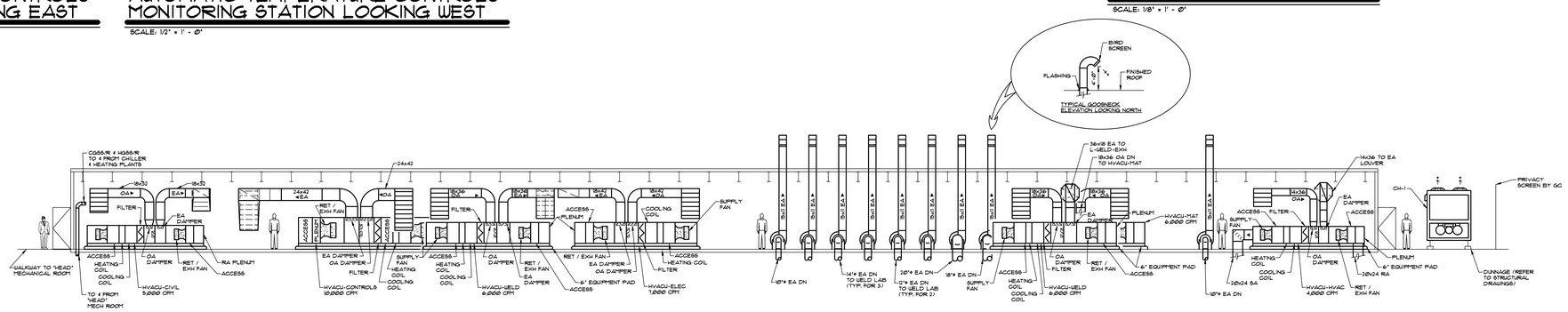
SCALE: 1/2" = 1' - 0"

AUTOMATIC TEMPERATURE CONTROLS MONITORING STATION LOOKING WEST

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

ELEVATION LOOKING EAST

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



PENTHOUSE ELEVATION LOOKING EAST

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

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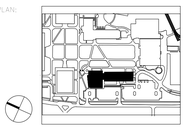
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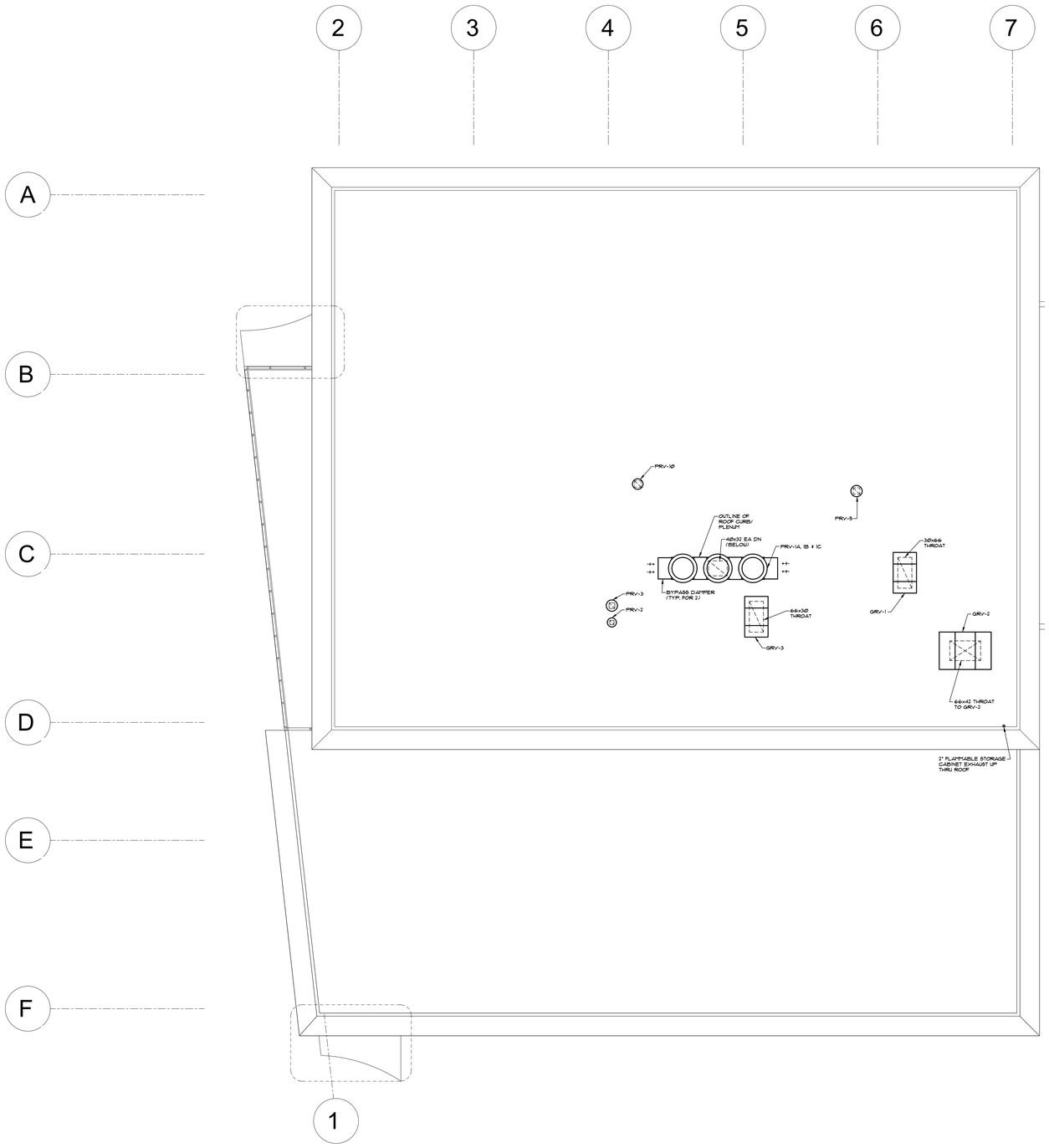


PROJECT:
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:
PENTHOUSE FLOOR PLAN (SHED) DUCTWORK

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

M-104



HIGH ROOF PLAN (HEAD)

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

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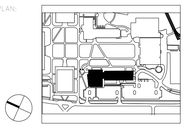
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STATE OF NEW YORK
COA # 101084 EXPIRATION DATE 2/28/2027

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KEY PLAN:



PLAN NORTH

PROJECT:

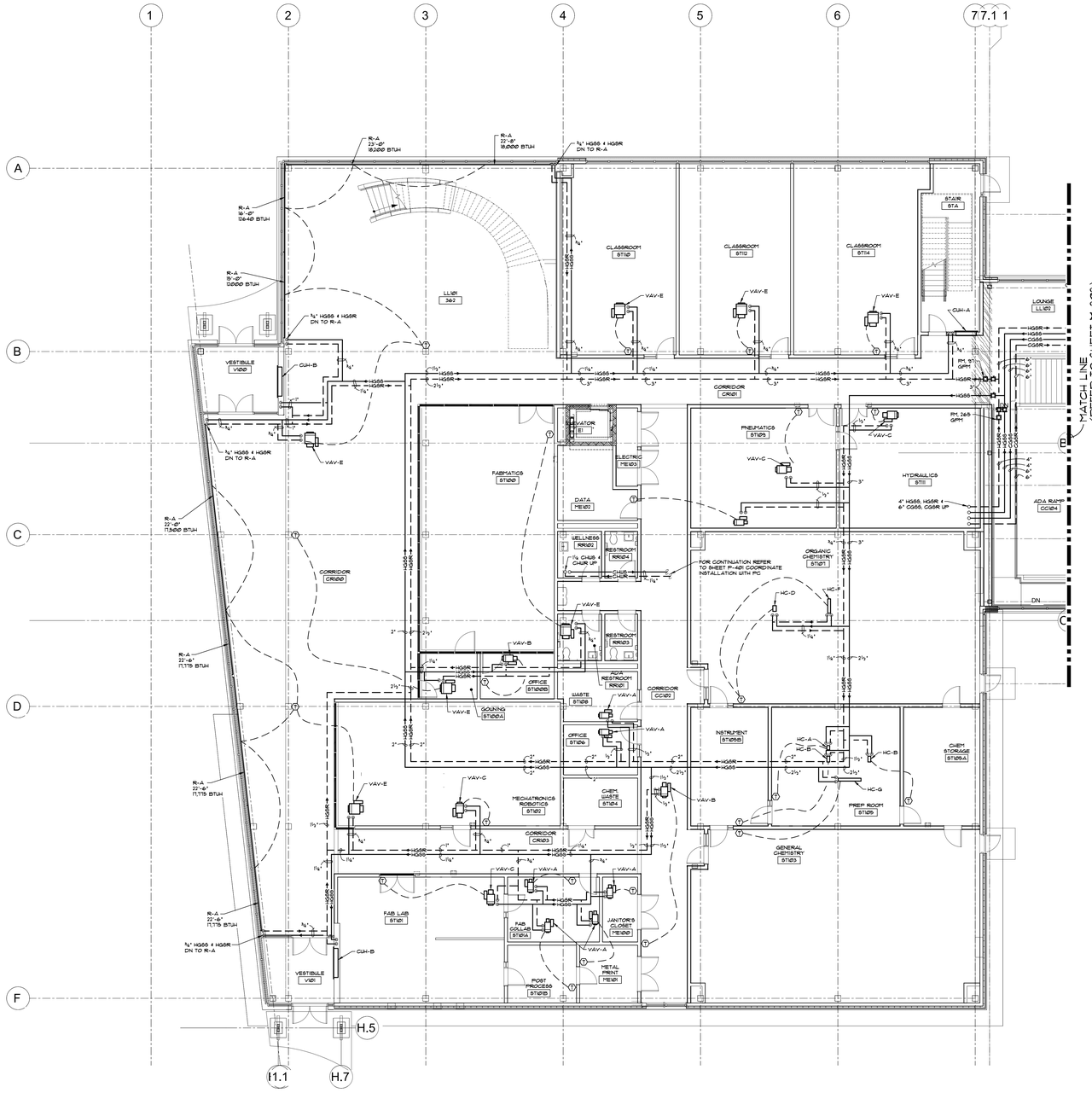
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

HIGH ROOF PLAN (HEAD)

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

M-105



FIRST FLOOR PLAN (HEAD) PIPING

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

NORTH

ONEIDA COUNTY NEW YORK 1798

MVCC
MOHAWK VALLEY COMMUNITY COLLEGE

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MARCH ASSOCIATES
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SITE | CIVIL ENGINEER:
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SEAL:

LICENSED PROFESSIONAL ENGINEER
WILLIAM H. TOWNE
NO. 045880
UNIVERSITY OF THE STATE OF NEW YORK
COA # 100384 EXPIRATION DATE 08/31/2027

ISSUE/REVISION:

NO.	DATE	COMMENTS
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KEY PLAN:

PLAN NORTH

PROJECT:

SCIENCE & TECHNOLOGY BUILDING

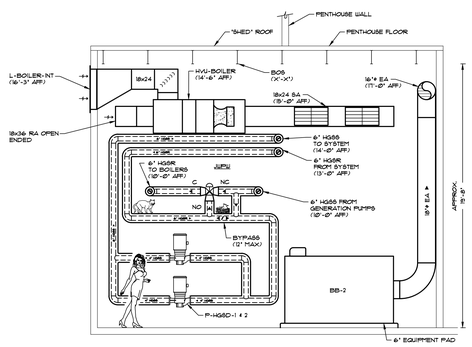
DRAWING TITLE:

FIRST FLOOR PLAN (HEAD) PIPING

PROJECT NO: 23000 (4038) | DATE: 9/23/2025

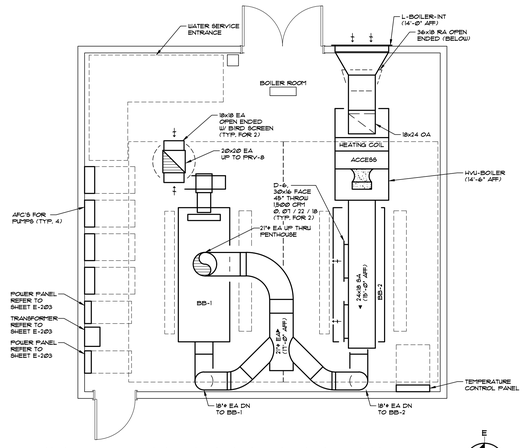
PHASE: REBID & CONSTRUCTION | SCALE: AS NOTED

M-201



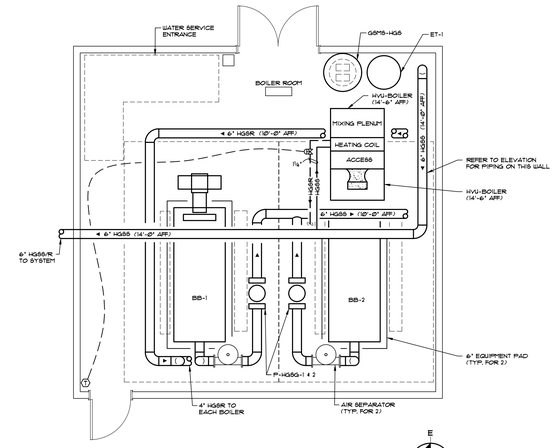
BOILER ROOM ELEVATION LOOKING SOUTH

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



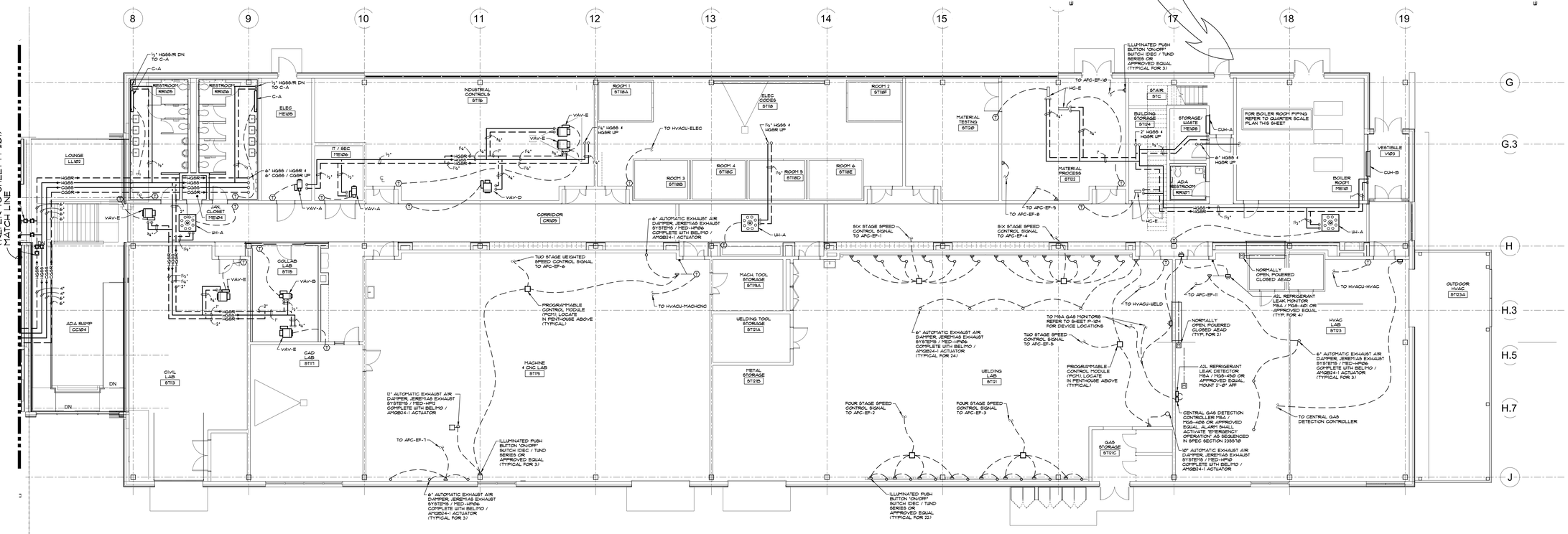
BOILER ROOM PLAN (DUCTWORK)

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



BOILER ROOM PLAN (PIPING)

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



FIRST FLOOR PLAN (SHED)

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

ONEIDA COUNTY NEW YORK 1798

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315 476 1022

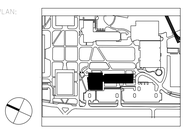
SEAL:

LICENSED PROFESSIONAL ENGINEER — WILLIAM H. TOWNE — No. 045890 — STATE OF NEW YORK — COA # 100184 — EXPIRATION DATE: 09/31/2027

ISSUE/REVISION		
NO.	DATE	COMMENTS
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KEY PLAN:



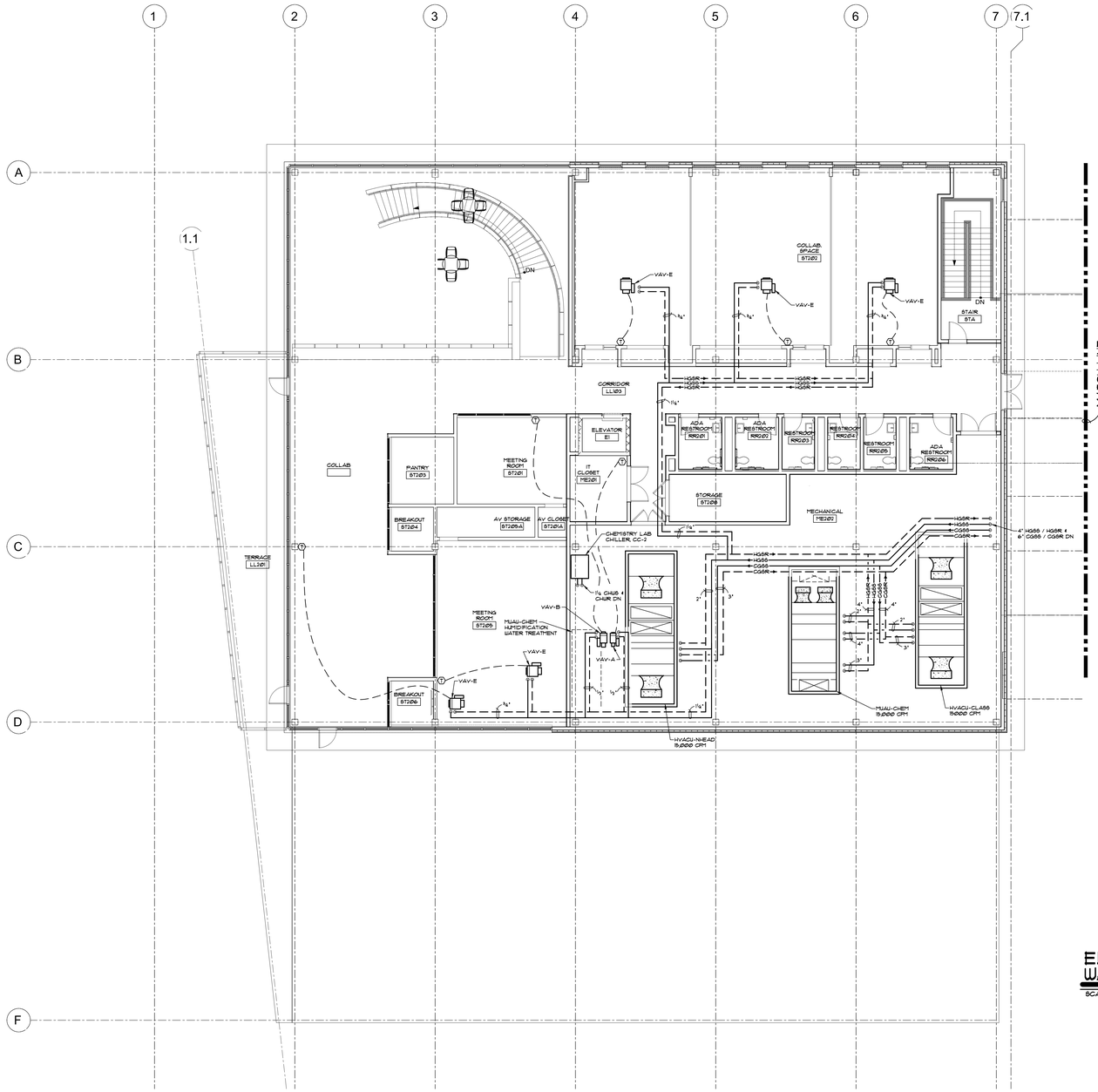
PLAN NORTH

PROJECT:
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:
FIRST FLOOR PLAN (SHED)

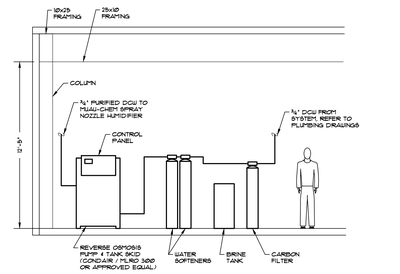
PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

M-202



SECOND FLOOR PLAN (HEAD) PIPING

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



ELEVATION AT MUAU HUMIDIFICATION WATER PURIFICATION LOOKING NORTH

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

ONEIDA COUNTY NEW YORK 1798

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315 476 1022

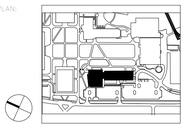
SEAL:

LICENSED PROFESSIONAL ENGINEER
WILLIAM H. TOWNE
NO. 045890
UNIVERSITY OF THE STATE OF NEW YORK

ISSUE/REVISION		
NO.	DATE	COMMENTS
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KEY PLAN:



PROJECT:

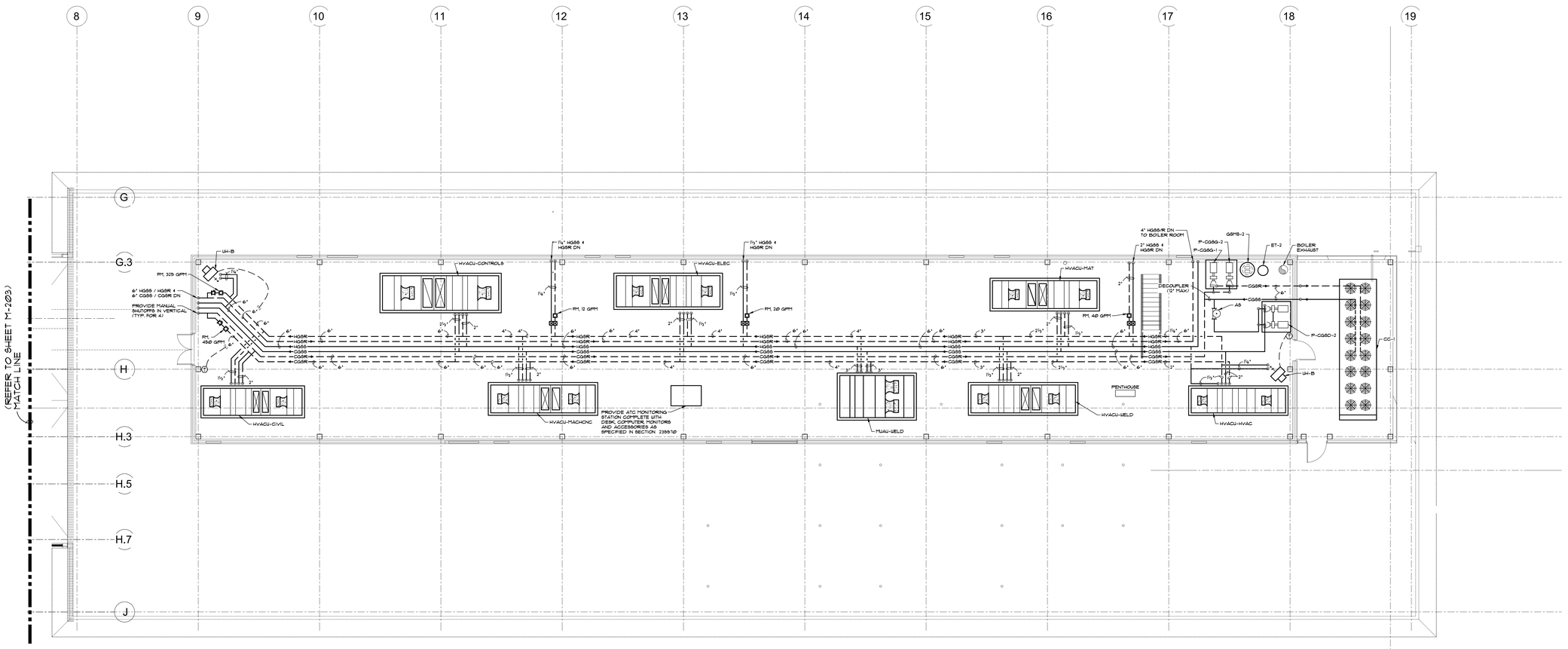
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

SECOND FLOOR PLAN (HEAD) PIPING

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

M-203



PENTHOUSE FLOOR PLAN (SHED) PIPING

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

ONEIDA COUNTY NEW YORK 1798

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SEAL:

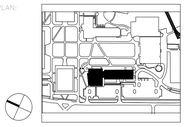
LICENSED PROFESSIONAL ENGINEER
WILLIAM H. TOWNE
NO. 045880
UNIVERSITY OF THE STATE OF NEW YORK
COA # 101084 EXPIRATION DATE 8/31/2027

ISSUE/REVISION:

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KEY PLAN:



PLAN NORTH

PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

PENTHOUSE FLOOR PLAN (SHED) PIPING

PROJECT NO: 23000 (4038) | DATE: 9/23/2025

PHASE: REBID & CONSTRUCTION | SCALE: AS NOTED

M-204

PAYNE HALL COOLING TOWER RELOCATION
DETAILS AND SCHEDULES

ADJUSTABLE FREQUENCY CONTROLLERS SCHEDULE — SPEC SECTION 23 55 52

UNIT # AFC-	EQUIPMENT SERVED	MFR / MODEL	NOMINAL HP	DISCONNECT	BYPASS	INPUT LINE REACTOR	OUTPUT LC FILTER	FLOOR STAND	SPECIAL ENCLOSURE	REMARKS
1	COOLING TOWER	ABB / ACH 580	15	---	●	---	---	---	---	①

① FURNISH AFC FOR INSTALLATION BY ELECTRICAL CONTRACTOR IN PAYNE HALL BASEMENT

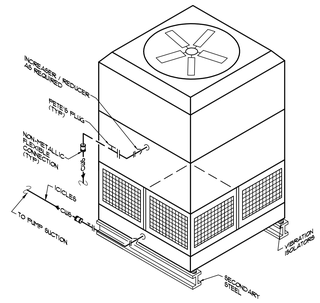
COOLING TOWERS SCHEDULE

UNIT # CT-	NOMINAL DIMENSIONS L x W x H IN	OPERATING WEIGHT LBF	SHIPPING WEIGHT LBS	EXTERNAL SP IN WG	WATER FLOW Ⓐ GPM	ENT / LVT °F	AMBIENT WB °F	DISTRIBUTION Δ/P PSI	AIR FLOW CFM	HP	REMARKS
1	144 x 142 x 170	16,770	8060	---	1250	93 / 85	76	6	14,450	(2) 7.5	①②

Ⓐ DRIFT: LESS THAN Ø.002%

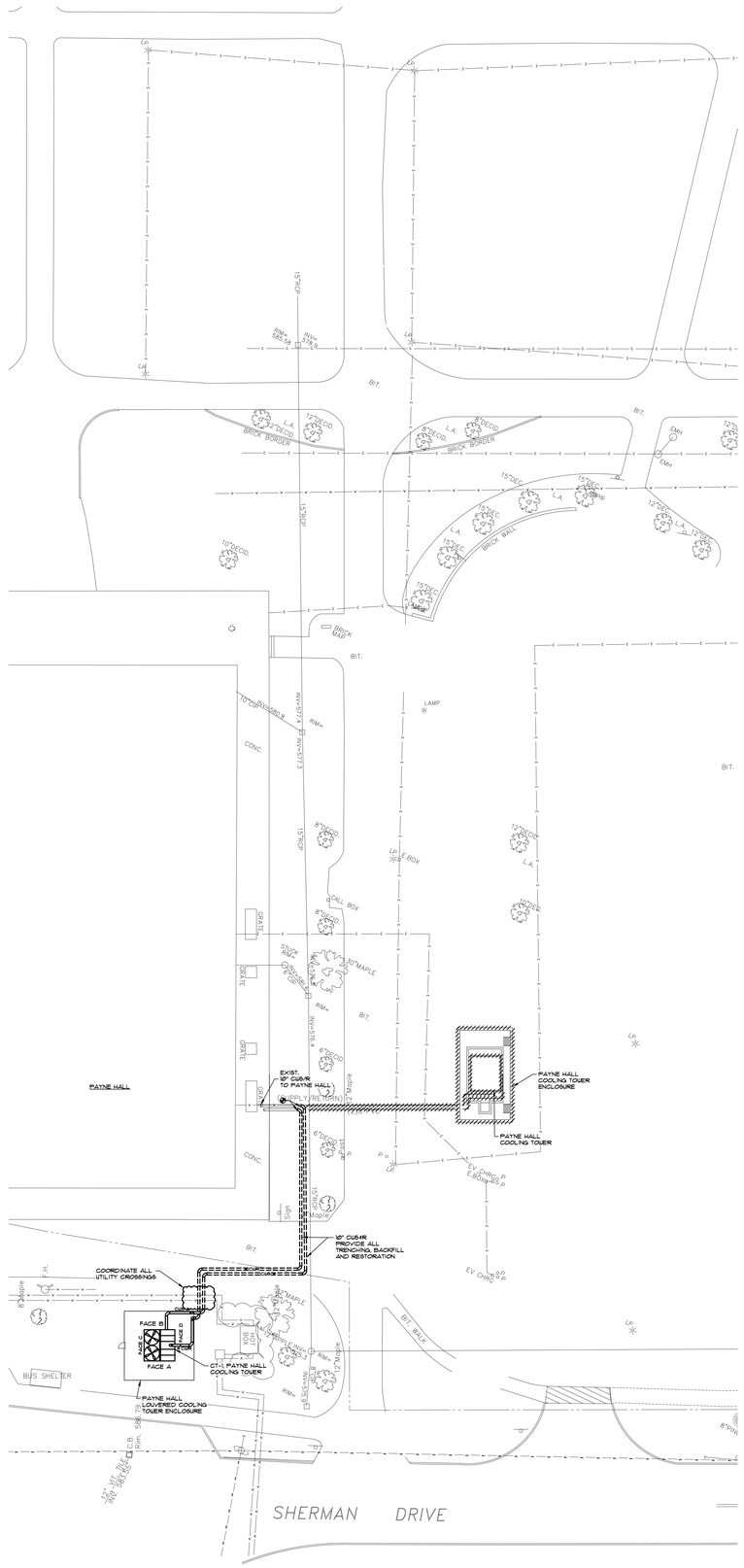
① MFR / MODEL: BALTIMORE AIRCOIL COMPANY SERIES 3000

② (2) # 7.5 HP MOTORS



PIPING CONNECTIONS AT COOLING TOWERS

SCALE: NONE



PARTIAL SITE PLAN

SCALE: 1" = 20'-0"

NORTH

ONEIDA COUNTY NEW YORK 1798

MVCC
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SEAL:

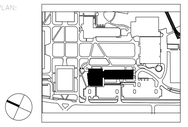
LICENSED PROFESSIONAL ENGINEER — WILLIAM H. TOWNE — NO. 045890 — UNIVERSITY OF THE STATE OF NEW YORK — COA # 101084 — EXPIRATION DATE: 09/21/2027

ISSUE/REVISION:

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KEY PLAN:



PROJECT:

SCIENCE & TECHNOLOGY BUILDING

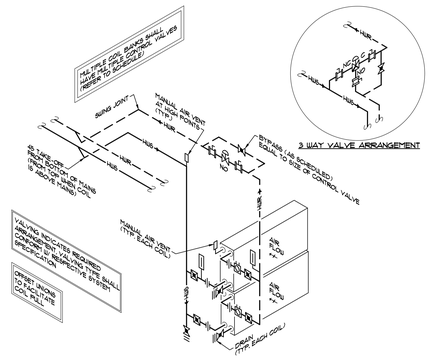
DRAWING TITLE:

PARTIAL SITE PLAN

PROJECT NO: 23000 (4038) | DATE: 9/23/2025

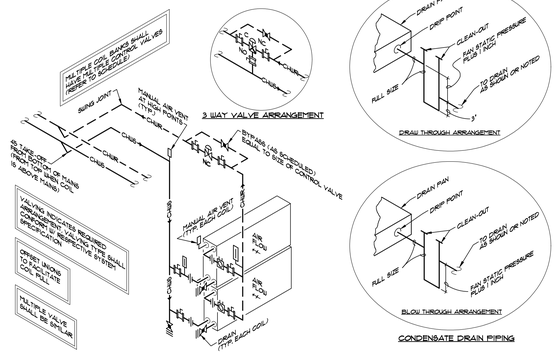
PHASE: REBID & CONSTRUCTION | SCALE: AS NOTED

M-501



PIPING CONNECTIONS AT HW HEATING COILS

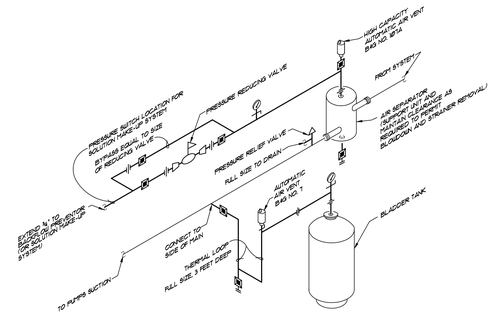
SCALE: NONE



PIPING CONNECTIONS AT CHW COOLING COILS

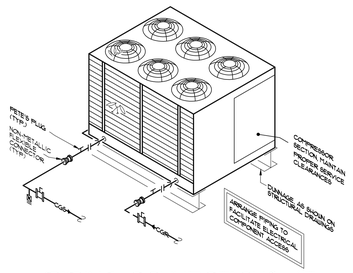
SCALE: NONE

CONDENSATE DRAIN PIPING



PIPING CONNECTIONS AT BLADDER TYPE EXPANSION TANKS

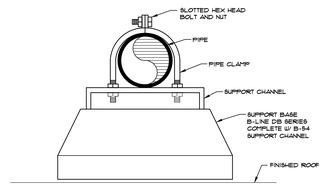
SCALE: NONE



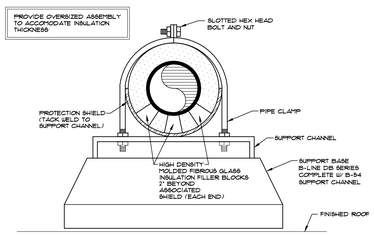
PIPING CONNECTIONS AT AIR COOLED CHILLER

SCALE: NONE

PROTECTION SHIELDS SCHEDULE		
PIPE SIZE (INCHES)	GAUGE	LENGTH (INCHES)
½ THRU 2	22	8
2½ THRU 4	20	10
5 AND UP	18	12



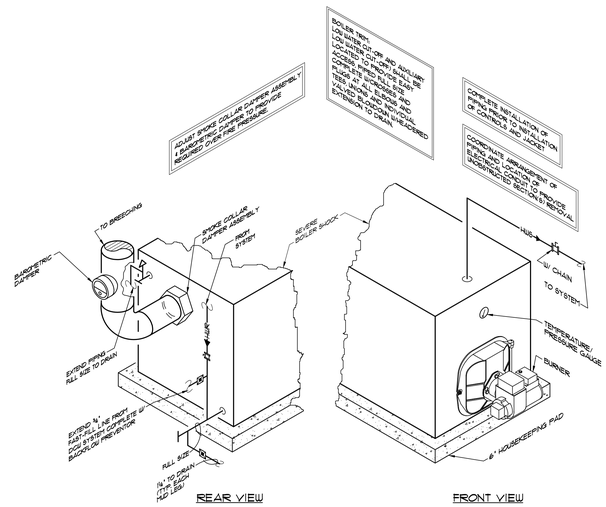
ARRANGEMENT FOR PIPING TRANSPORTING LIQUIDS & GASES **ABOVE** AMBIENT



ARRANGEMENT FOR PIPING TRANSPORTING LIQUIDS & GASES **BELOW** AMBIENT

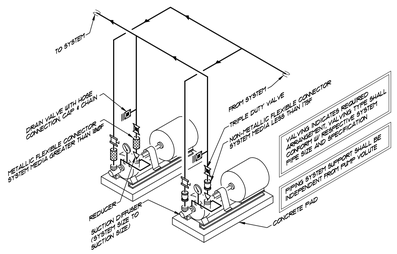
PIPING SUPPORT, ROOF

SCALE: NONE



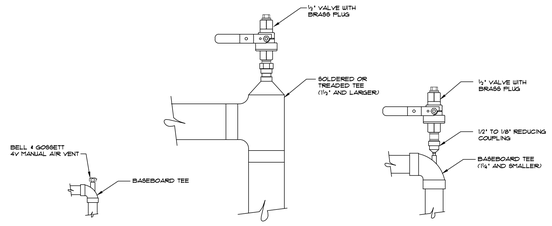
PIPING CONNECTIONS AT HOT WATER BOILERS

SCALE: NONE



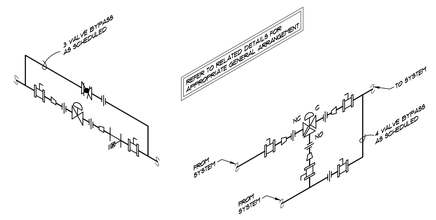
PIPING CONNECTIONS AT END SUCTION PUMPS

SCALE: NONE



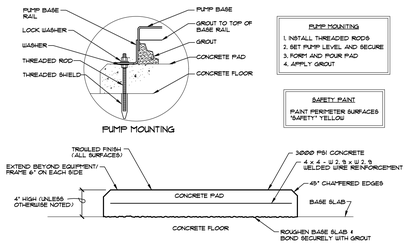
PIPING CONNECTIONS AT MANUAL AIR VENTS

SCALE: NONE



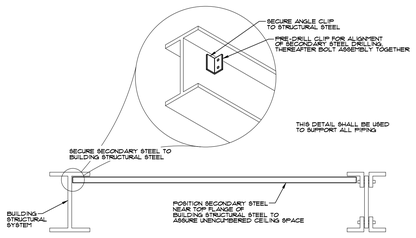
PIPING CONNECTIONS AT CONTROL VALVES SERVING MAJOR EQUIPMENT

SCALE: NONE



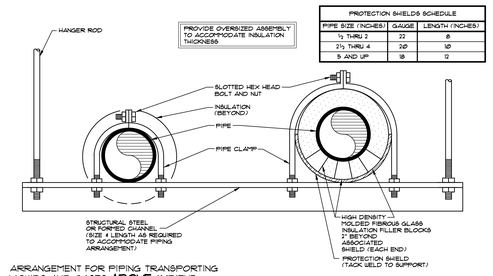
INTERIOR EQUIPMENT PADS

SCALE: NONE



PIPING SUPPORT, SECONDARY STEEL ARRANGEMENT

SCALE: NONE



PROTECTION SHIELDS SCHEDULE		
PIPE SIZE (INCHES)	GAUGE	LENGTH (INCHES)
½ THRU 2	22	8
2½ THRU 4	20	10
5 AND UP	18	12

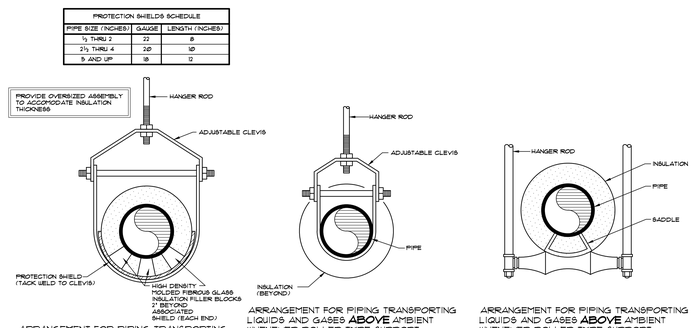
ARRANGEMENT FOR PIPING TRANSPORTING LIQUIDS & GASES **ABOVE** AMBIENT WHENEVER ROLLER TYPE SUPPORT IS NOT REQUIRED

ARRANGEMENT FOR PIPING TRANSPORTING LIQUIDS & GASES **BELOW** AMBIENT

PIPING SUPPORT, SUSPENDED (TRAPEZE)

SCALE: NONE

PROTECTION SHIELDS SCHEDULE		
PIPE SIZE (INCHES)	GAUGE	LENGTH (INCHES)
½ THRU 2	22	8
2½ THRU 4	20	10
5 AND UP	18	12



ARRANGEMENT FOR PIPING TRANSPORTING LIQUIDS & GASES **BELOW** AMBIENT

ARRANGEMENT FOR PIPING TRANSPORTING LIQUIDS & GASES **ABOVE** AMBIENT WHENEVER ROLLER TYPE SUPPORT IS NOT REQUIRED

ARRANGEMENT FOR PIPING TRANSPORTING LIQUIDS & GASES **ABOVE** AMBIENT WHENEVER ROLLER TYPE SUPPORT IS REQUIRED

PIPING SUPPORT, SUSPENDED (CLEVIS)

SCALE: NONE

ONEIDA COUNTY NEW YORK 1798

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315 733 9000

SITE | CIVIL ENGINEER:
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102 West Division Street, Suite 100
Syracuse, NY 13204
315 478 1022

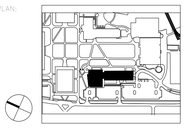
SEAL:

LICENSED PROFESSIONAL ENGINEER
WILLIAM H. TOWNE
No. 045800
STATE OF NEW YORK
COA # 100184 EXPIRATION DATE 08/31/2027

ISSUE/REVISION		
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:



PLAN NORTH

PROJECT:

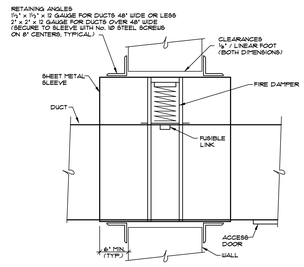
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

DETAILS

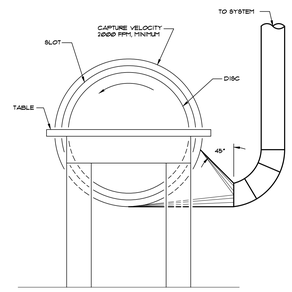
PROJECT NO: 23000 (4038) | DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION | SCALE: AS NOTED

M-601



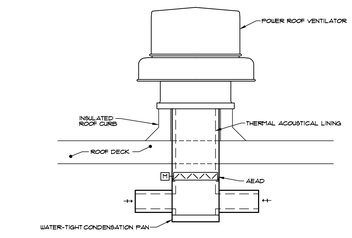
TYPICAL FIRE DAMPER INSTALLATION

SCALE: NONE



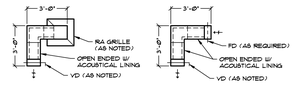
EXHAUST DUCT CONNECTIONS AT DISC BUFFERS/DISC SANDERS

SCALE: NONE



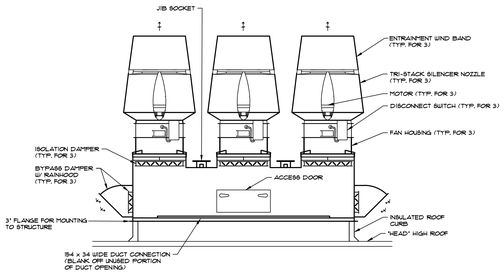
POWER ROOF VENTILATOR DETAIL

SCALE: NONE



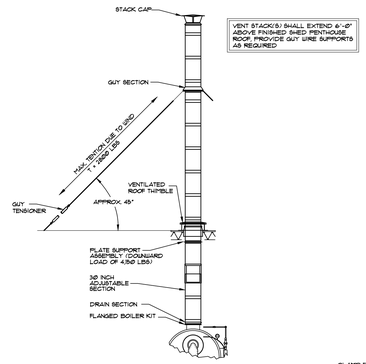
TYPICAL DUCTWORK AT RA & TA ARRANGMENTS

SCALE: NONE



STROBIC FAN ELEVATION

SCALE: NONE



BOILER STACK ELEVATION

SCALE: NONE

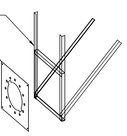
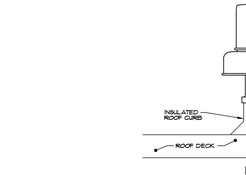
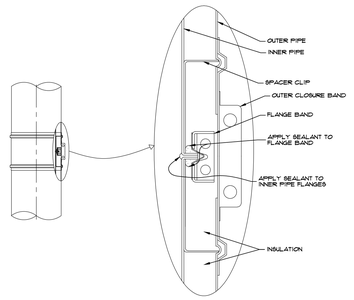


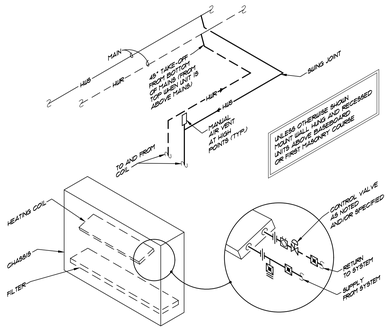
PLATE SUPPORT BRACING



2 - 45° ELBOWS REINFORCED WITH WALL SUPPORTS

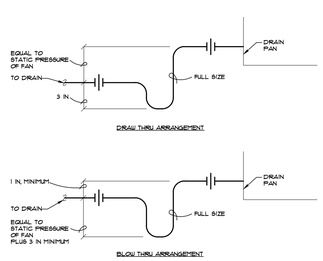


ASSEMBLED MODEL PIC JOINT



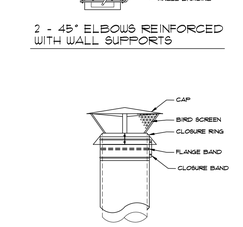
PIPING CONNECTIONS AT HW CABINET UNIT HEATERS

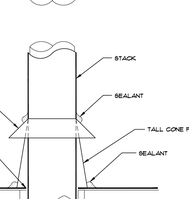
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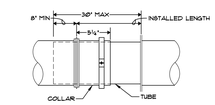


PIPING CONNECTIONS AT AIR HANDLING UNITS DRAIN PAN

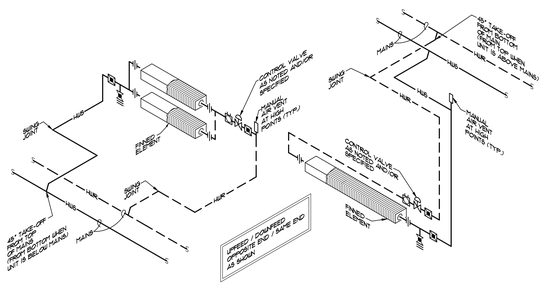
SCALE: NONE





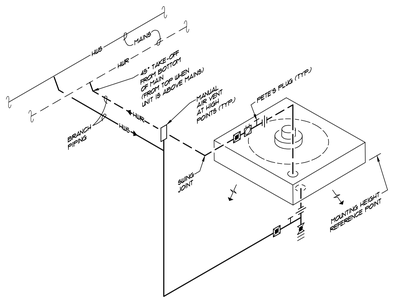


EXPANSION JOINT ASSEMBLY



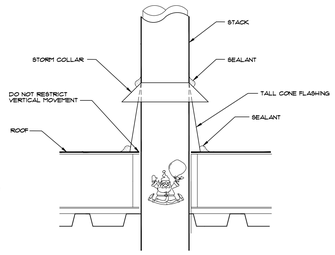
PIPING CONNECTIONS AT HW FIN RADIATION

SCALE: NONE

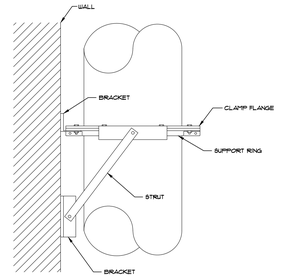


PIPING CONNECTIONS AT VERTICAL HW UNIT HEATERS

SCALE: NONE



ROOF PENETRATION DETAIL



WALL SUPPORT ASSEMBLY

INSTALLATION DETAILS

SCALE: NONE

ONEIDA COUNTY NEW YORK 1798

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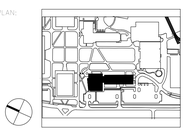
SEAL:

LICENSED PROFESSIONAL ENGINEER — WILLIAM H. TOWNE — NO. 045880 — STATE OF NEW YORK — COA # 101084 — EXPIRATION DATE: 09/31/2027

ISSUE/REVISION		
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:



PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

DETAILS

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

M-602

M-603

PROJECT NO.	Z3000 (4038)	DATE	9/23/2025
PHASE	REBID & CONSTRUCTION	SCALE	AS NOTED

SCHEDULES

DRAWING TITLE

SCIENCE & TECHNOLOGY BUILDING

PROJECT#



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NO.	DATE	ISSUE/REVISION
1	9/23/25	REBID & CONSTRUCTION

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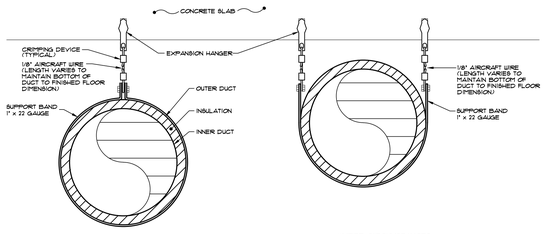
SEAL

EXPIRATION DATE OF LICENSE
JULIAN VERNON BRUNER
049027
LICENSED PROFESSIONAL ENGINEER
STATE OF NEW YORK
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER IN ANY WAY AN ITEM BEARING THE SEAL OF AN ARCHITECT.

CENTRAL STATION AIR HANDLING UNITS (RETURN / EXHAUST SECTIONS) SCHEDULE — SPEC SECTION 23 33 64.23 33 46

| UNIT # WHAU- | AREA SERVED | PRE / MODEL | GENERAL: TOTAL AIR FLOW CFM | GENERAL: MIN % OA W.B. TEMP | GENERAL: OA AIR FLOW CFM | GENERAL: HEADER PD IN. W.G. | GENERAL: MINIMUM OA DUCT VELOCITY BLADE TYPE | RAW SECTION: FACE & STRAINER VELOCITY NATURAL | RAW SECTION: FACE & STRAINER VELOCITY MERV | RAW SECTION: FACE & STRAINER VELOCITY LAT. | RAW SECTION: FACE & STRAINER VELOCITY BAF. | RAW SECTION: FACE & STRAINER VELOCITY LAT. | RAW SECTION: FACE & STRAINER VELOCITY BAF. | RAW SECTION: FACE & STRAINER VELOCITY LAT. | RAW SECTION: FACE & STRAINER VELOCITY BAF. | RAW SECTION: HEATING COIL: LATENT PD IN. W.G. | RAW SECTION: HEATING COIL: AIR FLOW CFM | RAW SECTION: HEATING COIL: EAT °F | RAW SECTION: HEATING COIL: LAT °F | RAW SECTION: HEATING COIL: AIR PD IN. W.G. | RAW SECTION: HEATING COIL: LATENT PD IN. W.G. | RAW SECTION: HEATING COIL: WATER FLOW GPM | RAW SECTION: HEATING COIL: EAT °F | RAW SECTION: HEATING COIL: LAT °F | RAW SECTION: HEATING COIL: AIR PD IN. W.G. | RAW SECTION: HEATING COIL: LATENT PD IN. W.G. | RAW SECTION: HEATING COIL: WATER FLOW GPM | RAW SECTION: CHILLED WATER COOLING COIL: LATENT PD IN. W.G. | RAW SECTION: CHILLED WATER COOLING COIL: AIR PD IN. W.G. | RAW SECTION: CHILLED WATER COOLING COIL: LATENT PD IN. W.G. | RAW SECTION: CHILLED WATER COOLING COIL: WATER FLOW GPM | RAW SECTION: CHILLED WATER COOLING COIL: EAT °F | RAW SECTION: CHILLED WATER COOLING COIL: LAT °F

HANGERS SHALL BE PLACED SO AS NOT TO EXCEED EXPANSION DEVICE OR AIRCRAFT WIRE LOAD LIMITS. THIS DISTANCE SHALL NOT EXCEED 10 LINEAR FEET.

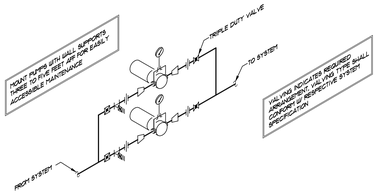


PREFFERED METHOD

WHERE CIRCUMSTANCES PROHIBIT PREFFERED METHOD

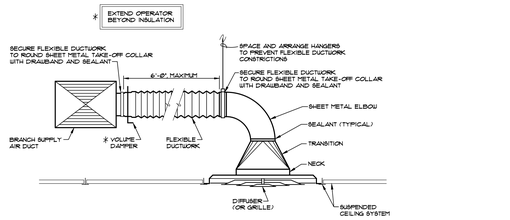
DUCT SUPPORT, SUSPENDED

SCALE: NONE



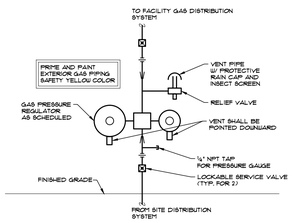
PIPING CONNECTIONS AT IN-LINE PUMPS

SCALE: NONE



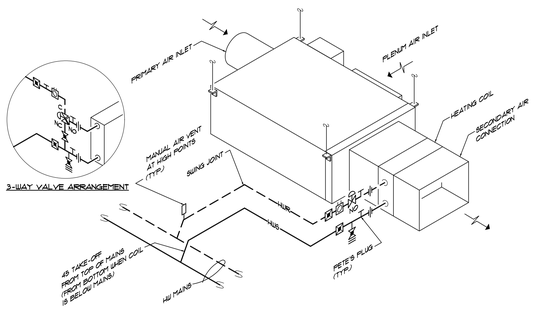
TYPICAL BRANCH DUCT CONNECTIONS AT DIFFUSERS AND GRILLES UNLESS OTHERWISE SHOWN

SCALE: NONE



PIPING CONNECTIONS AT GAS SERVICE ENTRANCE

SCALE: NONE



PIPING CONNECTIONS AT VARIABLE AIR VOLUME TERMINALS

SCALE: NONE

ADJUSTABLE FREQUENCY CONTROLLERS SCHEDULE

SPEC SECTION 23 55 52

UNIT # AFC-	EQUIPMENT SERVED	MFR / MODEL	NOMINAL HP	DISCONNECT	BYPASS	INPUT LINE REACTOR	OUTPUT LC FILTER	FLOOR STAND	SPECIAL ENCLOSURE	REMARKS
8F-WELD	HVACU-WELD SUPPLY FAN	ABB / ACH-580	5	●	●	---	---	---	---	8TH FL PENTHOUSE
REF-WELD	HVACU-WELD RETURN/EXHAUST FAN	ABB / ACH-580	3	●	●	---	---	---	---	8TH FL PENTHOUSE
8F-HVAC	HVACU-HVAC SUPPLY FAN	ABB / ACH-580	5	●	●	---	---	---	---	8TH FL PENTHOUSE
REF-HVAC	HVACU-HVAC RETURN/EXHAUST FAN	ABB / ACH-580	2	●	●	---	---	---	---	8TH FL PENTHOUSE
8F-MACHCNC	HVACU-MACHCNC SUPPLY FAN	ABB / ACH-580	5	●	●	---	---	---	---	8TH FL PENTHOUSE
REF-MACHCNC	HVACU-MACHCNC RETURN/EXHAUST FAN	ABB / ACH-580	3	●	●	---	---	---	---	8TH FL PENTHOUSE
8F-CIVIL	HVACU-CIVIL SUPPLY FAN	ABB / ACH-580	5	●	●	---	---	---	---	8TH FL PENTHOUSE
REF-CIVIL	HVACU-CIVIL RETURN/EXHAUST FAN	ABB / ACH-580	2	●	●	---	---	---	---	8TH FL PENTHOUSE
8F-MAT	HVACU-MAT SUPPLY FAN	ABB / ACH-580	7.5	●	●	---	---	---	---	8TH FL PENTHOUSE
REF-MAT	HVACU-MAT RETURN/EXHAUST FAN	ABB / ACH-580	3	●	●	---	---	---	---	8TH FL PENTHOUSE
8F-ELEC	HVACU-ELEC SUPPLY FAN	ABB / ACH-580	7.5	●	●	---	---	---	---	8TH FL PENTHOUSE
REF-ELEC	HVACU-ELEC RETURN/EXHAUST FAN	ABB / ACH-580	3	●	●	---	---	---	---	8TH FL PENTHOUSE
8F-CONTROLS	HVACU-CONTROLS SUPPLY FAN	ABB / ACH-580	10	●	●	---	---	---	---	8TH FL PENTHOUSE
REF-CONTROLS	HVACU-CONTROLS RETURN/EXHAUST FAN	ABB / ACH-580	5	●	●	---	---	---	---	8TH FL PENTHOUSE
6F-CLASS	HVACU-CLASS SUPPLY FAN	ABB / ACH-580	20	●	●	---	---	---	---	HEAD MECH ROOM
REF-CLASS	HVACU-CLASS RETURN/EXHAUST FAN	ABB / ACH-580	7.5	●	●	---	---	---	---	HEAD MECH ROOM
5F-NHEAD	HVACU-NHEAD SUPPLY FAN	ABB / ACH-580	20	●	●	---	---	---	---	HEAD MECH ROOM
REF-NHEAD	HVACU-NHEAD RETURN/EXHAUST FAN	ABB / ACH-580	7.5	●	●	---	---	---	---	HEAD MECH ROOM
6F-MUAUELD	MUAU-WELD SUPPLY FAN	ABB / ACH-580	(2) @ 10	●	●	---	---	---	---	8TH FL PENTHOUSE
6F-MUAUCHEM	MUAU-CHEM SUPPLY FAN	ABB / ACH-580	(2) @ 10	●	●	---	---	---	---	HEAD MECH ROOM
6F-BOILER	HVU-BOILER SUPPLY FAN	ABB / ACH-580	3	●	●	---	---	---	---	BOILER ROOM
EF-1	WELDING STATIONS 1-6 EXHAUST FAN	ABB / ACH-580	3	●	●	---	---	---	---	8TH FL PENTHOUSE
EF-2	WELDING STATIONS 7-12 EXHAUST FAN	ABB / ACH-580	3	●	●	---	---	---	---	8TH FL PENTHOUSE
EF-3	WELDING STATIONS 13-18 EXHAUST FAN	ABB / ACH-580	3	●	●	---	---	---	---	8TH FL PENTHOUSE
EF-4	WELDING STATIONS 19-24 EXHAUST FAN	ABB / ACH-580	3	●	●	---	---	---	---	8TH FL PENTHOUSE
EF-5	WELD GRINDING STATIONS EXHAUST FAN	ABB / ACH-580	3	●	●	---	---	---	---	8TH FL PENTHOUSE
EF-6	CNC GRINDING STATIONS EXHAUST FAN	ABB / ACH-580	3	●	●	---	---	---	---	8TH FL PENTHOUSE
EF-7	CNC SURFACE GRINDERS EXHAUST FAN	ABB / ACH-580	2	●	●	---	---	---	---	8TH FL PENTHOUSE
EF-8	MAT GRINDING STATION EXHAUST FAN	ABB / ACH-580	2	●	●	---	---	---	---	8TH FL PENTHOUSE
EF-9	MAT CASTING HOOD EXHAUST FAN	ABB / ACH-580	2	●	●	---	---	---	---	8TH FL PENTHOUSE
EF-10	MAT CANOPY HOOD EXHAUST FAN	ABB / ACH-580	1.5	●	●	---	---	---	---	8TH FL PENTHOUSE
EF-11	HVAC LAB TABLES EXHAUST FAN	ABB / ACH-580	2	●	●	---	---	---	---	8TH FL PENTHOUSE
EF-12	HVAC REFRIGERANT EXHAUST FAN	ABB / ACH-580	25	●	●	---	---	---	---	8TH ROOF
PRV-1A	CHEMISTRY FUME HOODS EXHAUST FAN	ABB / ACH-580	7.5	①	●	---	---	---	---	HEAD MECH ROOM
PRV-1B	CHEMISTRY FUME HOODS EXHAUST FAN	ABB / ACH-580	7.5	①	●	---	---	---	---	HEAD MECH ROOM
PRV-1C	CHEMISTRY FUME HOODS EXHAUST FAN	ABB / ACH-580	7.5	①	●	---	---	---	---	HEAD MECH ROOM
PRV-8	BOILER ROOM EXHAUST FAN	ABB / ACH-580	1.5	①	●	---	---	---	---	BOILER ROOM
P-CGSG-1	CHILLED GLYCOL GENERATION PUMP	ABB / ACH-580	10	●	●	---	---	---	---	8TH FL PENTHOUSE
P-CGSG-2	CHILLED GLYCOL GENERATION PUMP	ABB / ACH-580	10	●	●	---	---	---	---	8TH FL PENTHOUSE
P-CGSD-1	CHILLED GLYCOL DISTRIBUTION PUMP	ABB / ACH-580	15	●	●	---	---	---	---	8TH FL PENTHOUSE
P-CGSD-2	CHILLED GLYCOL DISTRIBUTION PUMP	ABB / ACH-580	15	●	●	---	---	---	---	8TH FL PENTHOUSE
P-HGSG-1	HOT GLYCOL GENERATION PUMP	ABB / ACH-580	7.5	●	●	---	---	---	---	BOILER ROOM
P-HGSG-2	HOT GLYCOL GENERATION PUMP	ABB / ACH-580	7.5	●	●	---	---	---	---	BOILER ROOM
P-HGSD-1	HOT GLYCOL DISTRIBUTION PUMP	ABB / ACH-580	15	●	●	---	---	---	---	BOILER ROOM
P-HGSD-2	HOT GLYCOL DISTRIBUTION PUMP	ABB / ACH-580	15	●	●	---	---	---	---	BOILER ROOM
UH-A	'A' UNIT HEATERS	ABB / ACH-580	(3) @ 1.5	---	---	---	---	---	---	8TH FL PENTHOUSE ②

① DISCONNECT INTEGRAL WITH UNIT ② AFC ACTS AS "SOFT START" FOR UNIT HEATERS ON GENERATOR BACKUP POWER

GRAVITY VENTILATORS SCHEDULE

SPEC SECTION 23 34 40

UNIT # GRV-	EQUIPMENT OR SYSTEM SERVED	MFR / MODEL	TYPE (A)	CURB CAP L x W IN	THROAT L x W IN	FINISH (B)	AIR FLOW CFM	THROAT VELOCITY FPM	FD IN WG	REMARKS
1	HVACU-CLASS	LOREN COOK / GR EXHAUST	H	50 x 87	30 x 66	CLA	15,000	1,120	Ø.25	---
2	HVACU-CLASS	LOREN COOK / GI INTAKE	H	80 x 111	42 x 66	CLA	15,000	780	Ø.1	---
3	HVACU-LOBBY	LOREN COOK / GR	H	50 x 87	30 x 66	CLA	15,000	1,120	Ø.25	---

(A) H -- HOOD
L -- LOUVERED

(B) CLA -- CLEAR ANODIZED, 215-R1 (Ø.7 MILS)
COA -- COLOR ANODIZED (HARDCOAT FOR EXTERIOR APPLICATION) COLOR SELECTED BY ARCHITECT.
KYN -- KYNAR 500®, (1.4 MILS) COLOR SELECTED BY ARCHITECT.
ARP -- ACID RESISTANT PHENOLIC

INSULATION SCHEDULE (C)

SPEC SECTION 23 55 60

DESIGNATION	EQUIPMENT OR SYSTEM SERVED	TYPE (A) INTERIOR CONCEALED	TYPE (A) INTERIOR EXPOSED	TYPE (A) EXTERIOR	JACKETING CLASS (B) INTERIOR GENERAL	JACKETING CLASS (B) EQUIPMENT ROOMS	JACKETING CLASS (B) EXTERIOR	THICKNESS IN NOMINAL PIPE SIZE IN ½ - 1½	2 - 4	5 - 8	8 & UP	DUCTWORK (D)
B	CHUS, CHUR, CGSS, CGSR	FPF	---	---	1	---	---	1½	1½	1½	1½	
		---	FPF	---	Ø	4	---	1½	1½	1½	1½	
		---	---	UR	---	---	4	2	3	3	3	
C	DCU, COOLING COIL (K) CONDENSATE	FPF	---	---	Ø	4	---	½	½	½	½	
		---	FPF	---	Ø	4	---	½	½	½	½	
F	HGSS, HGSR	FGS	---	---	1	---	---	1½	2	2½	3	
		---	FGS	---	1	1 # 4	---	1½	2	2½	3	
		---	---	UR	---	---	6	2	3	3	4	
I	DUCTWORK (J)	FGS (F)	---	---	2	---	---	---	---	---	---	1½
		---	FGS (F) (G)	---	Ø	2 # 3	---	---	---	---	---	2
		---	---	FGS (G)	---	---	8	---	---	---	---	2
K	BOILER BREECHING	---	MU	---	---	3	---	---	---	---	2	

(A) FG -- FIBROUS GLASS
FP -- FLEXIBLE FOAM PLASTIC
UR -- URETHANE
CS -- CALCIUM SILICATE
MU -- MINERAL WOOL
CF -- CERAMIC FIBER

(B) Ø -- NONE
1 -- ALL SERVICE
2 -- ALUMINUM FOIL
3 -- CANVAS
4 -- POLYVINYL CHLORIDE
5 -- STAINLESS STEEL
6 -- ALUMINUM
7 -- EPDM
8 -- WEATHER RESISTANT VAPOR BARRIER

(C) INSULATION TYPE, JACKETING & THICKNESS FOR EQUIPMENT SHALL MATCH THE CORRESPONDING PIPING SYSTEM'S PARAMETERS LISTED FOR: EQUIPMENT ROOMS, NOMINAL PIPE SIZE 8" AND LARGER

(D) SUPPLY AIR, OUTSIDE AIR AND MIXED AIR; EXHAUST AIR WITHIN 10 FT OF BUILDING EXTERIOR

(F) BLANKET (G) RIGID BOARD

(H) RETURN AIR AND/OR EXHAUST AIR AS SHOWN AND/OR NOTED

(J) TWO LAYERS, 3 IN TOTAL

(K) INCLUDING ASSOCIATED FLOOR DRAIN BODY, TRAP & LATERAL TO STACK

(L) INCLUDING REMOVABLE/REPLACEABLE INSULATION PADS SERVING PRESSURE REDUCING STATIONS.

(M) THERMAL ACOUSTICAL LINING TYPE FOR INTERIOR GENERAL

CONTROL VALVES SCHEDULE

SPEC SECTION 23 55 30

UNIT # CV-	EQUIPMENT OR SYSTEM SERVED	CONTROLLED VARIABLE	ARRANGEMENT 2-WAY	ARRANGEMENT 3-WAY	DESIGN FLOWRATE LBM/HR	DESIGN FLOWRATE GPM	DESIGN FLOWRATE ΔP PSI	Cv ± 5%	BYPASS (A)	REMARKS
HU-WELD	HVACU-WELD	HOT GLYCOL SOLUTION	●	---	---	16	4	8	●	8TH FL PENTHOUSE
CHU-WELD	HVACU-WELD	CHILLED GLYCOL SOLUTION	●	---	---	44	4	22	---	8TH FL PENTHOUSE
HU-HVAC	HVACU-HVAC	HOT GLYCOL SOLUTION	●	---	---	10.5	4	5	●	8TH FL PENTHOUSE
CHU-HVAC	HVACU-HVAC	CHILLED GLYCOL SOLUTION	●	---	---	25	4	15	---	8TH FL PENTHOUSE
HU-MACHCNC	HVACU-MACHCNC	HOT GLYCOL SOLUTION	●	---	---	16	4	8	●	8TH FL PENTHOUSE
CHU-MACHCNC	HVACU-MACHCNC	CHILLED GLYCOL SOLUTION	●	---	---	44	4	22	---	8TH FL PENTHOUSE
HU-CIVIL	HVACU-CIVIL	HOT GLYCOL SOLUTION	●	---	---	13.5	4	7	●	8TH FL PENTHOUSE
CHU-CIVIL	HVACU-CIVIL	CHILLED GLYCOL SOLUTION	●	---	---	36	4	18	---	8TH FL PENTHOUSE
HU-MAT	HVACU-MAT	HOT GLYCOL SOLUTION	●	---	---	16	4	8	●	8TH FL PENTHOUSE
CHU-MAT	HVACU-MAT	CHILLED GLYCOL SOLUTION	●	---	---	44	4	22	---	8TH FL PENTHOUSE
HU-MAT	HVACU-MAT	HOT GLYCOL SOLUTION	●	---	---	16	4	8	●	8TH FL PENTHOUSE
CHU-MAT	HVACU-MAT	CHILLED GLYCOL SOLUTION	●	---	---	44	4	22	---	8TH FL PENTHOUSE
HU-ELEC	HVACU-ELEC	HOT GLYCOL SOLUTION	●	---	---	78	4	10	●	8TH FL PENTHOUSE
CHU-ELEC	HVACU-ELEC	CHILLED GLYCOL SOLUTION	●	---	---	91	4	26	---	8TH FL PENTHOUSE
HU-CONTROLS	HVACU-CONTROLS	HOT GLYCOL SOLUTION	●	---	---	27	4	14	●	8TH FL PENTHOUSE
CHU-CONTROLS	HVACU-CONTROLS	CHILLED GLYCOL SOLUTION	●	---	---	73	4	37	---	8TH FL PENTHOUSE
HU-CLASS	HVACU-CLASS	HOT GLYCOL SOLUTION	●	---	---	40	4	20	●	HEAD MECH ROOM
CHU-CLASS-A	HVACU-CLASS	CHILLED GLYCOL SOLUTION	●	---	---	55	4	28	---	HEAD MECH ROOM
CHU-CLASS-B	HVACU-CLASS	CHILLED GLYCOL SOLUTION	●	---	---	55	4	28	---	HEAD MECH ROOM
HU-NHEAD	HVACU-NHEAD	HOT GLYCOL SOLUTION	●	---	---	40	4	20	●	HEAD MECH ROOM
CHU-NHEAD-A	HVACU-NHEAD	CHILLED GLYCOL SOLUTION	●	---	---	55	4	28	---	HEAD MECH ROOM
CHU-NHEAD-B	HVACU-NHEAD	CHILLED GLYCOL SOLUTION	●	---	---	55	4	28	---	HEAD MECH ROOM
HU-NHEAD	HVACU-NHEAD	HOT GLYCOL SOLUTION	●	---	---	40	4	20	●	HEAD MECH ROOM
CHU-NHEAD-A	HVACU-NHEAD	CHILLED GLYCOL SOLUTION	●	---	---	55	4	28	---	HEAD MECH ROOM
CHU-NHEAD-B	HVACU-NHEAD	CHILLED GLYCOL SOLUTION	●	---	---	55	4	28	---	HEAD MECH ROOM
HU-MUAU-WELD-A	MUAU-WELD	HOT GLYCOL SOLUTION	●	---	---	69	4	33	●	8TH FL PENTHOUSE
HU-MUAU-WELD-B	MUAU-WELD	HOT GLYCOL SOLUTION	●	---	---	69	4	33	●	8TH FL PENTHOUSE
CHU-MUAU-WELD-A	MUAU-WELD	CHILLED GLYCOL SOLUTION	●	---	---	63	4	32	---	8TH FL PENTHOUSE
CHU-MUAU-WELD-B	MUAU-WELD	CHILLED GLYCOL SOLUTION	●	---	---	63	4	32	---	8TH FL PENTHOUSE
HU-MUAU-CHEM-A	MUAU-CHEM	HOT GLYCOL SOLUTION	●	---	---	69	4	33	●	HEAD MECH ROOM
HU-MUAU-CHEM-B	MUAU-CHEM	HOT GLYCOL SOLUTION	●	---	---	69	4	33	●	HEAD MECH ROOM
HU-MUAU-CHEM-C	MUAU-CHEM	HOT GLYCOL SOLUTION REHEAT COIL	●	---	---	30	4	15	●	HEAD MECH ROOM
CHU-MUAU-CHEM-A	MUAU-CHEM	CHILLED GLYCOL SOLUTION	●	---	---	98	4	49	---	HEAD MECH ROOM
CHU-MUAU-CHEM-B	MUAU-CHEM	CHILLED GLYCOL SOLUTION	●	---	---	98	4	49	---	HEAD MECH ROOM
HU-BOILER	HVU-BOILER	HOT GLYCOL SOLUTION	●	---	---	10	4	5	●	BOILER ROOM
HUD-BLDG	PRIMARY / SECONDARY MIXING, HEATING PLANT	HOT GLYCOL SOLUTION	---	●	---	500	4	250	●	BOILER ROOM
PIR	PANEL RADIATION	HOT GLYCOL	●	---	---	VARIOUS	2	---	---	HEAD LOBBY
VAV	VAV REHEAT COIL	HOT GLYCOL	●	---	---	VARIOUS	2	---	---	VARIES
HC	REHEAT COIL	HOT GLYCOL	●	---	---	VARIOUS	2	---	---	VARIES
UH	UNIT HEATERS	HOT GLYCOL	●	---	---	VARIOUS	2	---	---	VARIES

(A) 2-WAY, 3 VALVE
3-WAY, 4 VALVE

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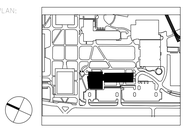
LICENSED PROFESSIONAL ENGINEER — WILLIAM H. TOWNE — NO. 045890 — UNIVERSITY OF THE STATE OF NEW YORK — COA # 100184 EXPIRATION DATE 09/31/2027

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

KEY PLAN:



PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

DETAILS & SCHEDULES

PROJECT NO: 23000 (4038) | DATE: 9/23/2025

PHASE: REBID & CONSTRUCTION | SCALE: AS NOTED

M-604

EQUIPMENT / MOTOR - WIRING - CONTACTOR / MOTOR STARTER - DISCONNECT SCHEDULE

EQUIPMENT/MOTOR								BRANCH CIRCUIT PARAMETERS (C.U.)				CONTACTOR/MOTOR STARTER														DISCONNECT						
															DESCRIPTION							COVER										
ITEM NUMBER	UNIT NUMBER	DESCRIPTION	LOCATION	HORSE POWER (OR KW AS NOTED)	PHASE	NAMEPLATE VOLTAGE	NEMA/IEC WITH (BY IEC)	SUPPLY VOLTAGE	PANEL OR CONTROL CENTER	CIRCUIT BREAKER	WIRING	LOCATION	FURNISHED BY	INSTALLED BY	MANUAL	MAGNETIC	COMBINATION MAGNETIC MOTOR STARTER	COMBINATION MAGNETIC PUMP	ADJUSTABLE FREQUENCY CONTROLLER (AFC)	OTHER	ACCESSORIES	BLANK	SERVICE DISCONNECTION	START-STOP	HAND-OFF-AUTOMATIC	PILOT LIGHT	LOCATION	FURNISHED BY	INSTALLED BY	FUSED	NON-FUSED	REFERENCE NOTES (SEE BELOW)	UNIT NUMBER	ITEM NUMBER
1	HVACU-WELD-SF	HEATING, VENTILATING, AIR CONDITIONING UNIT, WELDING LAB, SUPPLY FAN	MECH. PENTHOUSE ME200	5	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●								AT UNIT	EC	EC		●	①	HVACU-WELD-SF	1
2	HVACU-WELD-RF	HEATING, VENTILATING, AIR CONDITIONING UNIT, WELDING LAB, RETURN FAN	MECH. PENTHOUSE ME200	3	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●								AT UNIT	EC	EC		●	①	HVACU-WELD-RF	2
3	HVACU-HVAC-SF	HEATING, VENTILATING, AIR CONDITIONING UNIT, HVAC LAB, SUPPLY FAN	MECH. PENTHOUSE ME200	5	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●								AT UNIT	EC	EC		●	①	HVACU-HVAC-SF	3
4	HVACU-HVAC-RF	HEATING, VENTILATING, AIR CONDITIONING UNIT, HVAC LAB, RETURN FAN	MECH. PENTHOUSE ME200	2	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●								AT UNIT	EC	EC		●	①	HVACU-HVAC-RF	4
5	HVACU-MACHCNC-SF	HEATING, VENTILATING, AIR CONDITIONING UNIT, MACHINE/CNC LAB, SUPPLY FAN	MECH. PENTHOUSE ME200	5	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●								AT UNIT	EC	EC		●	①	HVACU-MACHCNC-SF	5
6	HVACU-MACHCNC-RF	HEATING, VENTILATING, AIR CONDITIONING UNIT, MACHINE/CNC LAB, RETURN FAN	MECH. PENTHOUSE ME200	3	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●								AT UNIT	EC	EC		●	①	HVACU-MACHCNC-RF	6
7	HVACU-CIVIL-SF	HEATING, VENTILATING, AIR CONDITIONING UNIT, CIVIL-CADD LAB, SUPPLY FAN	MECH. PENTHOUSE ME200	5	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●								AT UNIT	EC	EC		●	①	HVACU-CIVIL-SF	7
8	HVACU-CIVIL-RF	HEATING, VENTILATING, AIR CONDITIONING UNIT, CIVIL-CADD LAB, RETURN FAN	MECH. PENTHOUSE ME200	2	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●								AT UNIT	EC	EC		●	①	HVACU-CIVIL-RF	8
9	HVACU-MAT-SF	HEATING, VENTILATING, AIR CONDITIONING UNIT, MATERIALS LAB, SUPPLY FAN	MECH. PENTHOUSE ME200	7 1/2	3	460		480	MVP-ME1	20A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●								AT UNIT	EC	EC		●	①	HVACU-MAT-SF	9
10	HVACU-MAT-RF	HEATING, VENTILATING, AIR CONDITIONING UNIT, MATERIALS LAB, RETURN FAN	MECH. PENTHOUSE ME200	3	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●								AT UNIT	EC	EC		●	①	HVACU-MAT-RF	10
11	HVACU-ELEC-SF	HEATING, VENTILATING, AIR CONDITIONING UNIT, ELECTRIC CODES LAB, SUPPLY FAN	MECH. PENTHOUSE ME200	7 1/2	3	460		480	MVP-ME1	20A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●								AT UNIT	EC	EC		●	①	HVACU-ELEC-SF	11
12	HVACU-ELEC-RF	HEATING, VENTILATING, AIR CONDITIONING UNIT, ELECTRIC CODES LAB, RETURN FAN	MECH. PENTHOUSE ME200	3	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●								AT UNIT	EC	EC		●	①	HVACU-ELEC-RF	12
13	HVACU-CONTROLS-SF	HEATING, VENTILATING, AIR CONDITIONING UNIT, CONTROLS LAB, SUPPLY FAN	MECH. PENTHOUSE ME200	10	3	460		480	MVP-ME1	25A-3P	3-#10 & 1-#10 G. IN 3/4" C.	MECH. PENTHOUSE ME200	MC	EC					●								AT UNIT	EC	EC		●	①	HVACU-CONTROLS-SF	13
14	HVACU-CONTROLS-RF	HEATING, VENTILATING, AIR CONDITIONING UNIT, CONTROLS LAB, RETURN FAN	MECH. PENTHOUSE ME200	5	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●								AT UNIT	EC	EC		●	①	HVACU-CONTROLS-RF	14
15	HVACU-CLASS-SF	HEATING, VENTILATING, AIR CONDITIONING UNIT, HEAD CLASSROOMS, SUPPLY FAN	MECHANICAL ME201	30	3	460		480	MVP-2	60A-3P	3-#6 & 1-#10 G. IN 1" C.	MECHANICAL ME201	MC	EC					●								AT UNIT	EC	EC		●	①	HVACU-CLASS-SF	15
16	HVACU-CLASS-RF	HEATING, VENTILATING, AIR CONDITIONING UNIT, HEAD CLASSROOMS, RETURN FAN	MECHANICAL ME201	7 1/2	3	460		480	MVP-2	20A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECHANICAL ME201	MC	EC					●								AT UNIT	EC	EC		●	①	HVACU-CLASS-RF	16
17	HVACU-NHEAD-SF	HEATING, VENTILATING, AIR CONDITIONING UNIT, NORTH HEAD, SUPPLY FAN	MECHANICAL ME201	30	3	460		480	MVP-2	60A-3P	3-#6 & 1-#10 G. IN 1" C.	MECHANICAL ME201	MC	EC					●								AT UNIT	EC	EC		●	①	HVACU-FABS-SF	17
18	HVACU-NHEAD-RF	HEATING, VENTILATING, AIR CONDITIONING UNIT, NORTH HEAD, RETURN FAN	MECHANICAL ME201	7 1/2	3	460		480	MVP-2	20A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECHANICAL ME201	MC	EC					●								AT UNIT	EC	EC		●	①	HVACU-FABS-RF	18
19	NOT USED																																	NOT USED	19
20	MUAU-WELD	MAKE-UP AIR UNIT, WELDING LAB	MECH. PENTHOUSE ME200	25 A	3	460		480	MVP-ME1	40A-3P	3-#8, 1-#10 G. IN 1" C.	MECH. PENTHOUSE ME200	MC	EC					●								AT UNIT	EC	EC		NEMA 3R	①	MUAU-WELD	20
21	MUAU-CHEM	MAKE-UP AIR UNIT, CHEMISTRY LABS	MECHANICAL ME201	25 A	3	460		480	MVP-2	40A-3P	3-#8, 1-#10 G. IN 1" C.	MECHANICAL ME201	MC	EC					●								AT UNIT	EC	EC		NEMA 3R	①	MUAU-CHEM	21
22	NOT USED																																	NOT USED	22
23	HVU-BOILER	HEATING, VENTILATING UNIT, BOILER ROOM	BOILER ROOM ME110	3	3	460		480	MVP-OS-1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	BOILER ROOM ME110	MC	EC					●								AT UNIT	EC	EC		●	①	HVU-BOILER	23
24	NOT USED																																	NOT USED	24
25	EF-1	UTILITY FAN SET, WELDING STATIONS 1-6	MECH. PENTHOUSE ME200	3	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●				⑤										EF-1	25
26	EF-2	UTILITY FAN SET, WELDING STATIONS 7-12	MECH. PENTHOUSE ME200	3	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●				⑤										EF-2	26
27	EF-3	UTILITY FAN SET, WELDING STATIONS 13-18	MECH. PENTHOUSE ME200	3	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●				⑤										EF-3	27
28	EF-4	UTILITY FAN SET, WELDING STATIONS 19-24	MECH. PENTHOUSE ME200	3	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●				⑤										EF-4	28
29	EF-5	UTILITY FAN SET, GRINDING STATIONS, WELDING LAB	MECH. PENTHOUSE ME200	3	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●				⑤										EF-5	29
30	EF-6	UTILITY FAN SET, GRINDING STATIONS, CNC/MACHINE LAB	MECH. PENTHOUSE ME200	3	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●				⑤										EF-6	30
31	EF-7	UTILITY FAN SET, SURFACE GRINDERS, CNC/MACHINE LAB	MECH. PENTHOUSE ME200	2	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●				⑤										EF-7	31
32	EF-8	UTILITY FAN SET, GRINDING STATION, MATERIALS LAB	MECH. PENTHOUSE ME200	2	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●				⑤										EF-8	32
33	EF-9	UTILITY FAN SET, SAND CASTINGS HOOD, MATERIALS LAB	MECH. PENTHOUSE ME200	2	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●				⑤										EF-9	33
34	EF-10	UTILITY FAN SET, EXHAUST HOOD, MATERIALS LAB	MECH. PENTHOUSE ME200	1 1/2	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●				⑤										EF-10	34
35	EF-11	UTILITY FAN SET, WORK TABLES HVAC LAB	MECH. PENTHOUSE ME200	2	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●				⑤										EF-11	35
36	EF-12	UTILITY FAN SET, EMERGENCY REFRIGERANT EXHAUST	ROOF OF SHED	25	3	460		480	MVP-LRS-1	50A-3P	3-#4 & 1-#8 G. IN 1 1/4" C.	MECH. PENTHOUSE ME200	MC	EC					●				⑤					AT UNIT	EC	EC	NEMA 3R		①	EF-12	36
37	CBF-1	GRINDERBLOCK FAN	FAB LAB ST01	.50 W	1	115		120	LVP-FL	15A-1P	2-#12 & 1-#12 G. IN 1/2" C.	FAB LAB ST01	MC	EC						SPEED CONTROLLER							INTEGRAL WITH UNIT						CBF-1	37
38	CH-1	AIR COOLED CHILLER	ROOF OF SHED	432 A	3	460		480	MVSS-1	600A-3P	3-350 MCM & 1-#3 G IN EACH OF 2 - 3" C.	INTEGRAL WITH UNIT															AT UNIT	EC	EC	NEMA 3R			CH-1	38
39	CH-2	CHEMISTRY CHILLER	MECHANICAL ME201	271 A	3	460		480	MVP-2	50A-3P	3-#6 & 1-#10 G. IN 1" C.	INTEGRAL WITH UNIT															INTEGRAL WITH UNIT						CH-2	39
40	H-1	ADIABATIC HUMIDIFIER (SERVES MUAU-CHEM)	MECHANICAL ME201	18 KW	3	208		208	LVP-2	20A-3P	3-#2 & 1-#2 G. IN 1/2" C.	INTEGRAL WITH UNIT															INTEGRAL WITH UNIT						H-1	40
41	P-CGSG-1	PUMP, CHILLED GLYCOL SOLUTION GENERATION	MECH. PENTHOUSE ME200	10	3	460		480	MVP-ME1	25A-3P	3-#10 & 1-#10 G. IN 3/4" C.	NEAR UNIT	MC	EC					●														P-CGSG-1	41
42	P-CGSG-2	PUMP, CHILLED GLYCOL SOLUTION GENERATION (STANDBY)	MECH. PENTHOUSE ME200	10	3	460		480	MVP-ME1	25A-3P	3-#10 & 1-#10 G. IN 3/4" C.	NEAR UNIT	MC	EC					●														P-CGSG-2	42
43	P-CGSD-1	PUMP, CHILLED GLYCOL SOLUTION DISTRIBUTION	MECH. PENTHOUSE ME200	15	3	460		480	MVP-ME1	40A-3P	3-#8 & 1-#10 G. IN 3/4" C.	NEAR UNIT	MC	EC					●														P-CGSD-1	43
44	P-CGSD-2	PUMP, CHILLED GLYCOL SOLUTION DISTRIBUTION (STANDBY)	MECH. PENTHOUSE ME200	15	3	460		480	MVP-ME1	40A-3P	3-#8 & 1-#10 G. IN 3/4" C.	NEAR UNIT	MC	EC					●														P-CGSD-2	44
45	NOT USED																																	NOT USED	45
46	NOT USED																																	NOT USED	46
47	BB-1	BOILER BURNER	BOILER ROOM ME110	3	3	460		480	MVP-OS-2	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	INTEGRAL WITH UNIT															AT UNIT	EC	EC		●	②	BB-1	47
48	BB-2	BOILER BURNER	BOILER ROOM ME110	3	3	460		480	MVP-OS-2	15A-3P	3-#2 & 1-#2 G. IN 1/2" C.	INTEGRAL WITH UNIT															AT UNIT	EC	EC		●	②	BB-2	48
49	P-HGSG-1	PUMP, HOT GLYCOL SOLUTION GENERATION BB-1	BOILER ROOM ME110	7 1/2	3	460		480	MVP-OS-2	20A-3P	3-#2 & 1-#2 G. IN 1/2" C.	NEAR UNIT	MC	EC					●														P-HGSG-1	49
50	P-HGSG-2	PUMP, HOT GLYCOL SOLUTION GENERATION BB-2	BOILER ROOM ME110	7 1/2	3	460		480	MVP-OS-2	20A-3P	3-#2 & 1-#2 G. IN 1/2" C.	NEAR UNIT	MC	EC					●														P-HGSG-2	50
51	P-HGSD-1	PUMP, HOT GLYCOL SOLUTION DISTRIBUTION	BOILER ROOM ME110	15	3	460		480	MVP-OS-2	40A-3P	3-#8 & 1-#10 G. IN 3/4" C.	NEAR UNIT	MC	EC					●														P-HGSD-1	51
52	P-HGSD-2	PUMP, HOT GLYCOL SOLUTION DISTRIBUTION (STANDBY)	BOILER ROOM ME110	15	3	460		480	MVP-OS-2	40A-3P	3-#8 & 1-#10 G. IN 3/4" C.	NEAR UNIT	MC	EC					●														P-HGSD-2	52
53	GSMS-1	GLYCOL SOLUTION MAKE-UP SYSTEM, HOT GLYCOL	BOILER ROOM ME110	1/3	1	115		120	LVP-OS-2	15A-1P	2-#12 & 1-#12 G. IN 1/2" C.	AT UNIT				●								●									GSMS-HGS	53
54	GSMS-2	GLYCOL SOLUTION MAKE-UP SYSTEM, CHILLED GLYCOL	MECH. PENTHOUSE ME200	1/3	1	115		120	LVP-ME1	15A-1P	2-#12 & 1-#12 G. IN 1/2" C.	AT UNIT				●								●									GSMS-CGS	54
55	AC-1	AIR COMPRESSOR	MECH. PENTHOUSE ME200	20	3	460		480	MVP-ME1	60A-3P	3-#6, 1-#10 G. IN 1" C.	INTEGRAL WITH UNIT															AT UNIT	EC	EC		●		AC-1	55
56	AC-2	AIR COMPRESSOR	MECH. PENTHOUSE ME200	20	3	460		480	MVP-ME1	60A-3P	3-#6, 1-#10 G. IN 1" C.	INTEGRAL WITH UNIT															AT UNIT	EC	EC		●		AC-2	56
57	VP-1	VACUUM PUMP	ORGANIC CHEMISTRY ST01	Ø.35	1	115		120	LVP-CM	15A-1P	2-#12 & 1-#12 G. IN 1/2" C.	INTEGRAL WITH UNIT															AT UNIT	EC	EC		●		VP-1	57
58	VP-2	VACUUM PUMP	ORGANIC CHEMISTRY ST01	Ø.35	1	115		120	LVP-CM	15A-1P	2-#12 & 1-#12 G. IN 1/2" C.	INTEGRAL WITH UNIT															AT UNIT	EC	EC		●		VP-2	58
59	NOT USED																																	NOT USED	59
60	DUSH-1	DOMESTIC WATER STORAGE HEATER	MECH. PENTHOUSE ME200	1 A	1	115		120	LVP-ME1	15A-1P	2-#12 & 1-#12 G. IN 1/2" C.	INTEGRAL WITH UNIT															AT UNIT	EC	EC	●			DUSH-1	60
61	DUSH-2	DOMESTIC WATER STORAGE HEATER	MECH. PENTHOUSE ME200	1 A	1	115		120	WIRE WITH ITEM NO. 61		2-#12 & 1-#12 G. IN 1/2" C.	INTEGRAL WITH UNIT															AT UNIT	EC	EC	●			DUSH-2	61
62	P-DHWR-110	PUMP, DOMESTIC HOT WATER RECIRCULATING, 110	MECH. PENTHOUSE ME200	2/5	1	115		120	LVP-ME1	15A-1P	2-#12 & 1-#12 G. IN 1/2" C.	AT UNIT	MC	EC	●									●									P-DHWR-110	62
63	SP-1	SUMP PUMP, ELEVATOR PIT	ELEVATOR PIT	1/3	1	115		120	LVP-ME1	15A-1P	2-#12 & 1-#12 G. IN 1/2" C.	ELECTRIC ME103	MC	MC						CONTROL PANEL												④	SP-1	63
64	NOT USED																																	NOT USED	64
65	CUH-A	CABINET UNIT HEATER	REFER TO DRAWINGS	1000W	1	115		120	REFER TO DRAWINGS	15A-1P	2-#12 & 1-#12 G. IN 1/2" C.	REFER TO DRAWINGS	MC	MC						ATC							AT UNIT	EC	EC	FUSTAT			CUH-A	65
66	CUH-B	CABINET UNIT HEATER	REFER TO DRAWINGS	2500W	1	115		120	REFER TO DRAWINGS	15A-1P	2-#12 & 1-#12 G. IN 1/2" C.	REFER TO DRAWINGS	MC	MC						ATC							AT UNIT	EC	EC	FUSTAT			CUH-B	66
67	UH-A	UNIT HEATER	REFER TO DRAWINGS	1 1/2	3	460		480	REFER TO DRAWINGS	15A-3P	3-#12 & 1-#12 G. IN 1/2" C.	REFER TO DRAWINGS	MC	EC					●								AT UNIT	EC	EC		●		UH-A	67
68	UH-B	UNIT HEATER	REFER TO DRAWINGS	1/3	1	115		120	REFER TO DRAWINGS	15A-1P	2-#12 & 1-#12 G. IN 1/2" C.	REFER TO DRAWINGS	MC	MC						ATC							AT UNIT	EC	EC		●		UH-B	68

REFERENCE NOTES

① UNIT SHALL SHUT-DOWN IN CONTEXT WITH FIRE ALARM AND DETECTION SYSTEM INTERFACE.

② WIRE COMPLETE FROM BOILER/BURNER CONTROL CIRCUIT CONTACTS WITH 2-#12 & 1-#12 G. IN 3/4" C. THRU SWITCH (RED COVER, WHITE LETTERS READING: "BOILER/BURNER EMERGENCY SHUT-OFF") AT EXTERIOR SIDE OF BOILER ROOM DOOR.

③ WIRE MOTION SENSOR / PUSH PLATE, SWING SIDE SAFETY SENSOR AND ELECTRIC DOOR STRIKE TO THE UNIT OPERATOR PER MANUFACTURER'S DIRECTIONS. COORDINATE WITH G.C. PRIOR TO INSTALLATION.

④ EC TO PROVIDE DUPLEX RECEPTACLE AT CONTROL PANEL.

⑤ REFER TO M-200 SERIES DRAWINGS FOR REMOTE PUSH BUTTON TYPE, CONFIGURATION AND LOCATIONS.

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL CONTROL WIRING SHALL BE 12DV. PROVIDE CONTROL TRANSFORMERS AS REQUIRED.
2. UNLESS OTHERWISE NOTED, ALL MAGNETIC CONTACTORS AND MOTOR CONTROLLERS SHALL BE COMPLETE WITH ONE SET OF N.O. AND ONE SET OF N.C. AUXILIARY CONTACTS.
3. ATC - AUTOMATIC TEMPERATURE CONTROL.

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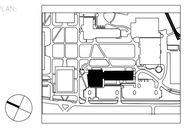
SEAL:

LICENSED PROFESSIONAL ENGINEER — WILLIAM H. TOWNE — No. 045800 — UNIVERSITY OF THE STATE OF NEW YORK — CODE # 101394 EXPIRATION DATE 09/21/2027

ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:



PLAN NORTH

PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

MOTOR STARTER SCHEDULE

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

ME-101

EQUIPMENT / MOTOR - WIRING - CONTACTOR / MOTOR STARTER - DISCONNECT SCHEDULE

EQUIPMENT/MOTOR								BRANCH CIRCUIT PARAMETERS (C.U.)				CONTACTOR/MOTOR STARTER															DISCONNECT						
															DESCRIPTION								COVER										
ITEM NUMBER	UNIT NUMBER	DESCRIPTION	LOCATION	HORSE POWER (OR KW AS NOTED)	PHASE	NAMEPLATE VOLTAGE	INTERLOCK WITH (BY E.C.)	SUPPLY VOLTAGE	PANEL OR CONTROL CENTER	CIRCUIT BREAKER	WIRING	LOCATION	FURNISHED BY	INSTALLED BY	MANUAL	MAGNETIC	COMBINATION MOTOR UNFUSED	COMBINATION MAGNETIC MOTOR	ADJUSTABLE FREQUENCY CONTROLLER (AFC)	OTHER	ACCESSORIES	BLANK	REMOTE INDICATION	START/STOP	HAND-OFF-AUTOMATIC	PILOT LIGHT	LOCATION	FURNISHED BY	INSTALLED BY	FUSED	NON-FUSED	REFERENCE NOTES (E)	UNIT NUMBER	ITEM NUMBER
69	FRV-1A	POLYPROPYLENE ROOF VENTILATOR (GENERAL CHEMISTRY EXHAUST HOODS)	ROOF OF HEAD	7 1/2	3	460		480	MVP-2	20A-3P	3-#2 & 1-#8 G. IN 1" C.	MECH. PENTHOUSE ME200	MC	EC					●								INTEGRAL WITH UNIT						FRV-1A	69
70	FRV-1B	POLYPROPYLENE ROOF VENTILATOR (CHEMISTRY EXHAUST HOODS STANDBY)	ROOF OF HEAD	7 1/2	3	460		480	MVP-2	20A-3P	3-#2 & 1-#8 G. IN 1" C.	MECH. PENTHOUSE ME200	MC	EC					●								INTEGRAL WITH UNIT						FRV-1B	70
71	FRV-1C	POLYPROPYLENE ROOF VENTILATOR (ORGANIC CHEMISTRY EXHAUST HOODS)	ROOF OF HEAD	7 1/2	3	460		480	MVP-2	20A-3P	3-#2 & 1-#8 G. IN 1" C.	MECH. PENTHOUSE ME200	MC	EC					●								INTEGRAL WITH UNIT						FRV-1C	71
72	FRV-2	POLYPROPYLENE ROOF VENTILATOR (CHEMICAL WASTE STORAGE)	ROOF OF HEAD	1/8	1	115		120	LVP-2	15A-1P	2-#2 & 1-#8 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC	●											●	INTEGRAL WITH UNIT						FRV-2	72
73	FRV-3	POLYPROPYLENE ROOF VENTILATOR (RESTROOMS 101-104)	ROOF OF HEAD	1/6	1	277		277	LVP-2	15A-1P	2-#2 & 1-#8 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC	●					OCCUPANCY SENSOR						●	INTEGRAL WITH UNIT						FRV-3	73
74	FRV-4	POLYPROPYLENE ROOF VENTILATOR (RESTROOMS 109 & 108)	ROOF OF SHED	1/2	1	277		277	LVP-ME1	20A-1P	2-#2 & 1-#8 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC	●					OCCUPANCY SENSOR						●	INTEGRAL WITH UNIT						FRV-4	74
75	FRV-5	POLYPROPYLENE ROOF VENTILATOR (RESTROOMS 201-206)	ROOF OF HEAD	1/4	1	277		277	LVP-2	15A-1P	2-#2 & 1-#8 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC	●					OCCUPANCY SENSOR						●	INTEGRAL WITH UNIT						FRV-5	75
76	FRV-6	POLYPROPYLENE ROOF VENTILATOR (RESTROOMS 107)	ROOF OF SHED	1/8	1	277		277	LVP-2	15A-1P	2-#2 & 1-#8 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC	●					OCCUPANCY SENSOR						●	INTEGRAL WITH UNIT						FRV-6	76
77	FRV-7	POLYPROPYLENE ROOF VENTILATOR (CIVIL LAB EXHAUST HOOD)	ROOF OF SHED	5/8	1	115		120	LVP-2	20A-1P	2-#2 & 1-#8 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC		●							●				INTEGRAL WITH UNIT						FRV-7	77
78	FRV-8	POLYPROPYLENE ROOF VENTILATOR (BOILER ROOM)	ROOF OF SHED	1 1/2	3	460		480	MVP-ME1	15A-3P	3-#2 & 1-#8 G. IN 1/2" C.	MECH. PENTHOUSE ME200	MC	EC					●								INTEGRAL WITH UNIT						FRV-8	78
79	FRV-9	POLYPROPYLENE ROOF VENTILATOR (POST PROCESS STUDIO)	ROOF OF HEAD	1/6	1	115		120	LVP-1	15A-1P	2-#2 & 1-#8 G. IN 1/2" C.	ELECTRIC ME103	MC	EC		●							●				INTEGRAL WITH UNIT						FRV-9	79
80	FRV-10	POLYPROPYLENE ROOF VENTILATOR (HEAD ELEVATOR)	ROOF OF HEAD	1/6	1	115		120	LVP-2	15A-1P	2-#2 & 1-#8 G. IN 1/2" C.	MECHANICAL ME202	MC	EC		●							●				INTEGRAL WITH UNIT						FRV-10	80
81	SC-1	SWING DOOR	REFER TO DRAWINGS	1/2	1	115		120	REFER TO DRAWINGS	20A-1P	2-#2 & 1-#8 G. IN 1/2" C.	REFER TO DRAWINGS	GC	EC						③							AT UNIT	EC	EC		●		SC-1	81

REFERENCE NOTES

① UNIT SHALL SHUT-DOWN IN CONTEXT WITH FIRE ALARM AND DETECTION SYSTEM INTERFACE.

② WIRE COMPLETE FROM BOILER/BURNER CONTROL CIRCUIT CONTACTS WITH 2-#2 & 1-#8 G. IN 1/2" C. THRU SWITCH (RED COVER, WHITE LETTERS READING: "BOILER/BURNER EMERGENCY SHUT-OFF") AT EXTERIOR SIDE OF BOILER ROOM DOOR.

③ WIRE MOTION SENSOR / PUSH PLATE SWING SIDE SAFTEY SENSOR AND ELECTRIC DOOR STRIKE TO THE UNIT OPERATOR PER MANUFACTURER'S DIRECTIONS. COORDINATE WITH G.C. PRIOR TO INSTALLATION.

④ EC TO PROVIDE DUPLEX RECEPTACLE AT CONTROL PANEL

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL CONTROL WIRING SHALL BE 120V. PROVIDE CONTROL TRANSFORMERS AS REQUIRED.
2. UNLESS OTHERWISE NOTED, ALL MAGNETIC CONTACTORS AND MOTOR CONTROLLERS SHALL BE COMPLETE WITH ONE SET OF N.O. AND ONE SET OF N.C. AUXILIARY CONTACTS.
3. ATC - AUTOMATIC TEMPERATURE CONTROL

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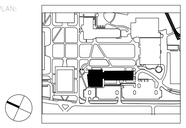
SEAL:

COA # 101084 EXPIRATION DATE 09/31/2027
LICENSED PROFESSIONAL ENGINEER
WILLIAM H. TOWNE
NO. 045800
UNIVERSITY OF THE STATE OF NEW YORK

ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:



PLAN NORTH

PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

MOTOR STARTER SCHEDULE

PROJECT NO: 23000 (4038) | DATE: 9/23/2025

PHASE: REBID & CONSTRUCTION | SCALE: AS NOTED

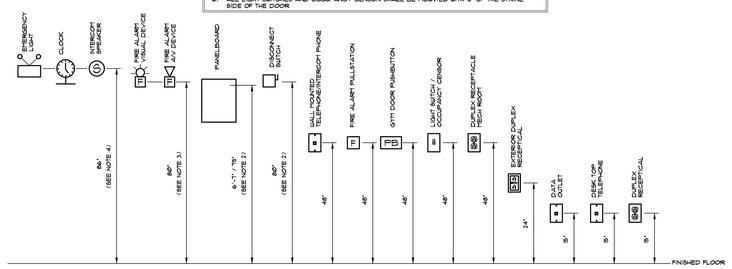
ME-102

ELECTRICAL DRAWINGS LIST:

E-001 GENERAL
E-010 SITE PLAN - REMOVALS
E-011 SITE PLAN
E-012 SITE PLAN (ACADEMIC BUILDING)
E-101 FIRST FLOOR PLAN -HEAD (LIGHTING)
E-102 SECOND FLOOR PLAN - HEAD (LIGHTING)
E-102A SECOND FLOOR PLAN - HEAD (LIGHTING) ALTERNATE
E-103 FIRST FLOOR PLAN - SHED (LIGHTING)
E-104 PENTHOUSE FLOOR PLAN - SHED (LIGHTING)
E-201 FIRST FLOOR PLAN - HEAD (POWER)
E-202 SECOND FLOOR PLAN - HEAD (POWER)
E-202A SECOND FLOOR PLAN - HEAD (POWER) ALTERNATE
E-203 FIRST FLOOR PLAN - SHED (POWER)
E-204 PENTHOUSE FLOOR PLAN - SHED (POWER)
E-301 FIRST FLOOR PLAN - HEAD (MISC.)
E-302 SECOND FLOOR PLAN - HEAD (MISC.)
E-302A SECOND FLOOR PLAN - HEAD (MISC.) ALTERNATE
E-303 FIRST FLOOR PLAN - SHED (MISC.)
E-304 PENTHOUSE FLOOR PLAN - SHED (MISC.)
E-305 ROOF PLAN - HEAD
E-500 ENLARGED PLAN - MECHATRONICS ROBOTICS, PNEUMATICS & HYDRAULICS
E-501 ENLARGED PLAN - CHEMISTRY & LAB SUPPORT
E-502 ENLARGED PLAN - AUTOMATION TRAINING CENTER
E-503 ENLARGED PLAN - FAB LAB
E-504 ENLARGED PLAN - CLASSROOMS - HEAD (FIRST FLOOR)
E-505 ENLARGED PLAN - HVAC LAB
E-506 ENLARGED PLAN - WELDING LAB
E-507 ENLARGED PLAN - MACHINE & CNC LAB
E-508 ENLARGED PLAN - CIVIL LAB, CAD LAB & COLLAB LAB
E-509 ENLARGED PLAN - INDUSTRIAL CONTROLS
E-510 ENLARGED PLAN - ELECTRICAL CODES
E-511 ENLARGED PLAN - MATERIAL TESTING & MATERIAL PROCESS
E-512 COOLING TOWER PLANS (PAYNE HALL)
E-513 BASEMENT AND FIRST FLOOR PLANS (ACADEMIC BUILDING)
E-601 ONE LINE POWER DIAGRAM
E-602 PANELBOARD NOTES
E-603 TEMPORARY ELECTRIC ONE LINE POWER DIAGRAM
E-701 DETAILS
E-702 DETAILS
E-703 DETAILS
E-704 DETAILS
E-705 DETAILS
E-706 DETAILS
E-801 PHOTOMETRIC CALCULATIONS SITE PLAN
E-802 PHOTOMETRIC CALCULATIONS FLOOR PLANS
E-803 PHOTOMETRIC CALCULATIONS SECOND FLOOR AND PENTHOUSE PLANS

NOTES

1. ALL MOUNTING HEIGHTS ARE TO THE CENTER LINE OF THE DEVICE, UNLESS OTHERWISE NOTED.
2. MAXIMUM DISTANCE FROM FINISHED FLOOR OR WORKING PLATFORM TO THE CENTER OF THE GRIP OF THE CIRCUIT BREAKERS OR THE OPERATING HANDLE OF THE SWITCH IF MULTIPLE PANELS ARE INSTALLED ADJACENT TO EACH OTHER, ALIGN THE TOPS OF ALL PANELS.
3. MOUNTING HEIGHT SHALL BE 80" ABOVE FURNISHED FLOOR OR 6" BELOW CEILING, WHICHEVER IS LOWER.
4. MOUNTING HEIGHT SHALL BE 86" TO THE TOP OF THE UNIT IN ANY AREA WITH AN 8'-0" CEILING HEIGHT OR LOWER.
5. 6-MILAR DEVICES SHALL BE GANGED TOGETHER AND SHALL HAVE A SINGLE COVER PLATE.
6. ALL LIGHT SWITCHES AND OCCUPANCY CENSOR SHALL BE MOUNTED WITH 12" OF THE STRIKE SIDE OF THE DOOR.



DEVICE MOUNTING HEIGHTS

SCALE: NONE

LEGEND

- NEW
- HOMERUN TO PANELBOARD AND ASSOCIATED CIRCUIT DESIGNATION
- EQUIPMENT/MOTOR, NUMBER INDICATES ITEM ON SCHEDULE
- BRANCH CIRCUIT CONTINUATION, UNSWITCHED
- SWITCHING ARRANGEMENT
- LUMINAIRE, CEILING MOUNTED, LETTER INDICATES TYPE
- LUMINAIRE, WALL MOUNTED, LETTER INDICATES TYPE
- LUMINAIRE, LETTER INDICATES TYPE
- LUMINAIRE ON EMERGENCY POWER
- EXIT LIGHT, TOP MOUNTED, SINGLE FACE, ARROWS AS INDICATED
- EXIT LIGHT, TOP MOUNTED, DOUBLE FACE, ARROWS AS INDICATED
- EXIT LIGHT, BACK MOUNTED, SINGLE FACE, ARROWS AS INDICATED
- EXIT LIGHT, END MOUNTED, SINGLE FACE, ARROWS AS INDICATED
- EXIT LIGHT, END MOUNTED, DOUBLE FACE, ARROWS AS INDICATED
- JUNCTION BOX, CEILING MOUNTED
- JUNCTION BOX, WALL MOUNTED
- DUPLEX RECEPTACLE, CEILING MOUNTED
- DUPLEX RECEPTACLE SERVING PROJECTOR, CEILING MOUNTED
- DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE WITH USB OUTLETS
- DUPLEX RECEPTACLE, GROUND FAULT INTERRUPTER
- DOUBLE DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE, CEILING MOUNTED
- WIRELESS PROVIDED BY OWNER, WALL MOUNTED
- DUPLEX RECEPTACLE, FLOOR MOUNTED, FLUSH
- SPECIAL PURPOSE RECEPTACLE
- PROJECTOR, CEILING MOUNT
- PROJECTOR/DATA/HDMI OUTLET
- DATA OUTLET SERVING CAMERA, NUMBER INDICATES CAMERA NUMBER, MOUNT AT CEILING
- DUAL DATA OUTLET SERVING WIRELESS ACCESS POINT, NUMBER INDICATES UNIT NUMBER, MOUNT AT CEILING
- DATA OUTLET SERVING POE CLOCK PROVIDED BY OWNER
- DATA OUTLET SERVING EMERGENCY PHONE, WALL MOUNT
- DATA OUTLET SERVING PHONE, WALL MOUNT
- DATA OUTLET
- DUAL DATA OUTLET
- QUAD DATA OUTLET,
- WIRELESS ACCESS POINT
- THREE WAY SWITCH
- SWITCH WITH LIGHTED HANDLE
- DIMMER SWITCH
- DIGITAL DIMMING & SCENE WALL SWITCH
- DIGITAL DIMMING & SCENE WALL SWITCH
- GANGED DEVICES

LEGEND

- TRANSFORMER
- INTRUSION ALARM
- INTELLIGENT DOOR CONTROLLER
- CARBON MONOXIDE DETECTOR (CEILING MOUNTED)
- PHOTOELECTRIC SMOKE DETECTOR (CEILING MOUNTED)
- AIR DUCT SMOKE DETECTOR
- THERMAL DETECTOR, FIXED TEMP. & RATE OF RISE (CEILING MOUNTED)
- FIRE ALARM/MASS NOTIFICATION SPEAKER/STROBE (WALL MOUNT @ 6'-8" AFF TO CENTER)
- ALERTUS ALERT BEACON, POE (MOUNT AT 42" AFF TO BOTTOM EDGE)
- FIRE ALARM/MASS NOTIFICATION/SPEAKER/STROBE, NUMBER INDICATES MIN. CANDELA RATING (CEILING MOUNTED)
- EMERGENCY PHONE TOWER
- ADDRESSABLE INTERFACE DEVICE (INPUT)
- ADDRESSABLE DEVICE
- RELAY
- REMOTE TEST STATION
- DOOR HOLD OPEN
- SUPERVISORY SWITCH
- WATER FLOW DEVICE
- EMERGENCY POWER OFF BUTTON
- ELECTRIC HAND DRYER, WALL MOUNTED
- ELECTRIC CORD REEL, DUPLEX RECEPTACLE, CEILING MOUNTED
- ELECTRIC CORD REEL, SPECIAL PURPOSE RECEPTACLE, CEILING MOUNTED
- ELECTRIC DATA REEL, DATA OUTLET, CEILING MOUNTED
- ZONE LAMP
- CARD READER
- ELECTRIC STRIKE
- ABOVE COUNTER
- ABOVE FINISHED FLOOR
- ABOVE FINISHED GRADE
- AIR HANDLING UNIT
- BELOW FINISHED FLOOR
- CONDUIT
- DUCT DETECTOR
- DISCONNECT SWITCH
- ENGINE/ALTERNATOR
- ELECTRIC WALL HEATER
- FIRE ALARM CONTROL PANEL (MOUNT TOP AT 5'-0" AFF)
- FIRE ALARM REMOTE ANNUNCIATOR (MOUNT TOP AT 5'-0" AFF)
- GROUND
- UNIT HEATER
- HEATING, VENTILATING AND AIR CONDITIONING UNIT
- HEATING AND VENTILATING UNIT
- JUNCTION BOX
- NORMALLY CLOSED
- NORMALLY OPEN
- RETURN AIR
- SUPPLY AIR
- SECURITY ALARM CONTROL PANEL
- WEATHERPROOF DEVICE
- OCCUPANCY SENSOR
- ELECTRIC WATER COOLER
- ELECTRIC HINGE

GENERAL NOTES

2. THOROUGHLY COORDINATE WORK WITH ALL ASSOCIATED WORK EXECUTED BY 'OTHER' CONTRACTORS.
3. EXECUTE ALL WORK IN A FASHION COMPLEMENTARY WITH AND UNOBTRUSIVE TO THE OWNER'S NEEDS AND OPERATIONS, RESPECTIVELY.
4. PROVIDE 'PROTECTION' RELATIVE TO ALL APPLICABLE WORK IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN DIVISION 1.
5. ALL ELECTRICAL EQUIPMENT SLATED FOR REMOVAL SHALL BE REMOVED IN ITS ENTIRETY INCLUDING ALL ASSOCIATED SUPPORT STRUCTURES, CONCRETE EQUIPMENT PADS, WIRING (POWER AND CONTROL), CONDUIT, DISCONNECT SWITCHES, STARTERS, ETC.
6. REMOVE ALL BRANCH CIRCUIT WIRE AND CONDUIT ASSOCIATED WITH EQUIPMENT AND DEVICES SHOWN AND/OR NOTED TO BE REMOVED BACK TO SOURCE.
7. MODIFY BRANCH CIRCUITS WHICH ARE DISRUPTED BY ASSOCIATED REMOVALS TO INSURE THE REQUIRED ARRANGEMENT FOR REMAINING EQUIPMENT AND/OR DEVICES.
8. PROVIDE ALL REQUIRED CUTTING, PATCHING AND INFILL; THEREAFTER, RESTORE ALL AFFECTED SURFACES TO MATCH EXISTING.
9. EACH BRANCH CIRCUIT SHALL BE NO. 12 AWG CONDUCTORS (PHASE, NEUTRAL AND EQUIPMENT GROUND, COMMON OR SHARED NEUTRALS ARE NOT ALLOWED) IN 1/2" CONDUIT WITH 20A-1P CIRCUIT BREAKER (UNLESS OTHERWISE NOTED). ANY BRANCH CIRCUIT WITH A DEVELOPED LENGTH OF 175 FEET OR GREATER SHALL BE NO. 10 AWG CONDUCTORS (PHASE, NEUTRAL AND EQUIPMENT GROUND, COMMON OR SHARED NEUTRALS ARE NOT ALLOWED.)
10. CONDUIT SYSTEMS APPLICATION (UNLESS OTHERWISE NOTED):
    A. INTERIOR SYSTEMS, ALL SIZES:
        I) ELECTRICAL METALLIC TUBING (EMT).
    B. EXTERIOR SYSTEMS ABOVE GRADE, ALL SIZES:
        I) RIGID STEEL CONDUIT (RSC).
        C. TERMINATIONS AT MECHANICAL EQUIPMENT:
        I) LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC).
    F. EXTERIOR SYSTEMS BELOW GRADE, ALL SIZES:
        I) RIGID NON-METALLIC CONDUIT (RNMC).
11. ALL CONDUITS THAT PASS THRU EXTERIOR WALLS OR FROM A CONDITIONED SPACE TO AN UNCONDITIONED SPACE SHALL BE SEALED WATERTIGHT/FIREPROOF WITH CHASE TECHNOLOGY CORPORATION CTCPK-66A SILICONE SEALANT.
12. BUSSMAN FUSES, LOW PEAK TYPE LPS-RK (600 VOLT, DUAL-ELEMENT,TIME DELAY, UL CLASS RK1) SHALL BE USED FOR CIRCUITS TO 600 AMPS. LOW PEAK KRP-C 600 VOLT, TYPE DELAY, UL CLASS L) SHALL BE USED FOR ALL CIRCUITS 601 AMPS AND ABOVE AND E RATED (19,500 VOLT, CURRENT LIMITING, BLOWN FUSE INDICATION) SHALL BE USED FOR PRIMARY FUSING APPLICATIONS.
13. PROVIDE ONE SPARE SET OF FUSES COMPLETE WITH FUSE HOLDER AT EVERY NEW FUSE-FUSED DEVICE (SERVICE DISCONNECT, DISCONNECT SWITCHES, SAFETY SWITCHES, PLUG-FUSE BOX COVER UNITS, ETC.) INSTALLED UNDER THIS CONTRACT.
14. ALL DISTRIBUTION SYSTEM COMPONENTS (SERVICE DISCONNECT, PANELBOARDS, MANUAL TRANSFER SWITCH, AUTOMATIC TRANSFER SWITCH, ETC.) SHALL BE MOUNTED ON UNISTRUT P 3300 CHANNEL (1 5/8" x 1 5/8" WIDE) WITH PERMA-GREEN RUST INHIBITING ACRYLIC ENAMEL PAINTED FINISH.
15. ALL NORMAL AND LIFE SAFETY BRANCH CIRCUITS SHALL BE INSTALLED IN SEPARATE RACEWAYS AND JUNCTION/OUTLET BOXES.
16. ADDRESS POINTS INDICATED FOR FIRE ALARM DEVICES ARE SHOWN FOR REFERENCE ONLY. ACTUAL AND FINAL ADDRESS POINTS ARE TO BE SEQUENCED IN A SIMILAR FASHION (NUMERICALATURE) TO EXISTING DEVICES. PROVIDE OWNER WITH UPDATED FIRE ALARM ADDRESS POINTS LIST(S) INDICATING FINAL ARRANGEMENT AND LOCATION OF ALL DEVICES.
17. PROVIDE TEMPORARY FIXTURES (PIN 4 SOCKETS) WITH 200 WATT INCANDESCENT LAMPS THROUGHOUT THE CONSTRUCTION AREA AS FIELD DIRECTED. COMPLETE WITH POWER CIRCUITS FROM EXISTING OR TEMPORARY PANELS.
18. PROVIDE TEMPORARY GFCI RECEPTACLES THROUGHOUT THE CONSTRUCTION AREA, AS FIELD DIRECTED. COMPLETE WITH POWER CIRCUITS FROM EXISTING OR TEMPORARY PANEL.
19. ALL RECEPTACLES WIRED ON THE CRITICAL BRANCH CIRCUITS (EMERGENCY SYSTEM) SHALL BE RED IN COLOR.
20. EQUIPMENT AND CONDUIT INSTALLATION:
    A. ALL ELECTRICAL EQUIPMENT, DEVICES, CONDUIT ETC. SHALL BE RECESSED/CONCEALED IN ALL PARTITIONS WITHIN FINISHED AREAS AND EXPOSED WITHIN LAB AREAS UNLESS OTHERWISE NOTED.
    B. CONDUITS SHALL BE RUN UNDER THE FLOOR SLAB WHERE EVER POSSIBLE.
    C. CONDUITS SHALL BE RUN PARALLEL AND PERPENDICULAR TO WALLS AND BEAMS AND CONCEALED ABOVE CEILING SYSTEMS WHERE EVER POSSIBLE.
21. ALL ELECTRIC HAND DRYERS SHALL HAVE A GROUND FAULT CIRCUIT INTERRUPTER (GFCI) CIRCUIT BREAKER AT 20A-1P GFCI UNLESS OTHERWISE NOTED.
22. FLOOR PLAN IS DIAGRAMMATIC IN NATURE. EXACT FIRE ALARM DEVICE LOCATIONS SHALL BE COORDINATED IN THE FIELD WITH OTHER TRADES AND ADJUSTED IN CONSIDERATION OF ANY OBSTRUCTION OR CONDITION WHICH MAY COMPROMISE PROPER DEVICE OPERATION.
23. INSTALL ALL RECESSED DEVICES IN A STAGGERED FASHION TO MITIGATE SOUND TRANSMISSION. ALL NEW RECESSED DEVICES INSTALLED BACK TO BACK SHALL BE RELOCATED AT THE ELECTRICAL CONTRACTORS EXPENSE.
24. ALL EQUIPMENT, BOXES, ENCLOSURES, CONDUIT, ETC. ASSOCIATED WITH THE EMERGENCY SYSTEM SHALL BE LABELED 'EMERGENCY SYSTEM' WITH RED EQUIPMENT LABELS AND RED CONDUIT LABELS (25 FOOT INTERVALS MAXIMUM) PER DETAILS ON CONTRACT DOCUMENTS.
25. ALL ELECTRICAL CONDUIT/ RACEWAYS SHALL BE IDENTIFIED BY COLOR CODING (ALLIED TAPE COLOR OR APPROVED EQUAL). FIRE ALARM SYSTEMS SHALL BE RED, LIGHTING SYSTEMS SHALL BE YELLOW, COMMERCIAL POWER SYSTEMS SHALL BE GREY, COMMUNICATION SYSTEMS SHALL BE BLUE, AND EMERGENCY GENERATOR SYSTEMS SHALL BY POWER SHALL BE GREEN. FIELD VERIFY AND MATCH EXISTING FACILITY COLOR CODING SCHEMES AND PROVIDE COLOR CODING INFORMATION WITH CONSTRUCTAEGLAY SUBMITTAL.
26. ALL FIREPROOFING THAT IS DISTURBED BY THE INSTALLATION OF ANY ELECTRICAL WORK SHALL BE PATCHED PER MANUFACTURER'S REQUIREMENTS BY THE ELECTRICAL CONTRACTOR.
27. PROVIDE TWELVE CATEGORY 6 DATA DROPS (100 FEET IN LENGTH) INCLUDING JUNCTION BOX, COVER PLATE AND JACK PER DETAIL AS FIELD DIRECTED BY THE OWNER, ARCHITECT OR ENGINEER.
28. PROVIDE TWO ADDITIONAL CARBON MONOXIDE DETECTORS INCLUDING ALL ASSOCIATED WIRING (POWER AND CONTROL AT 2010 FEET EACH TOTAL), POWER SUPPLIES, PROGRAMMING, ETC. AND INSTALL AS FIELD DIRECTED BY THE OWNER, ARCHITECT OR ENGINEER.
29. PROVIDE FOUR ADDITIONAL THERMAL DETECTORS, FOUR ADDITIONAL PHOTOELECTRIC SMOKE DETECTORS, FOUR ADDITIONAL 30 CANDELA CEILING MOUNTED SPEAKER STROBES INCLUDING ALL ASSOCIATED WIRING (POWER AND CONTROL AT 3410 FEET EACH TOTAL). FIRE ALARM SYSTEM PROGRAMMING, ETC. AND INSTALL AS FIELD DIRECTED BY THE OWNER, ARCHITECT OR ENGINEER.
30. PROVIDE SIX ADDITIONAL LIGHT FIXTURES OF EACH TYPE FOR L1B, L2C, L5, L6, L7, L8, L12A AND L13 INCLUDING INSTALLATION AS FIELD DIRECTED BY THE OWNER, ARCHITECT OR ENGINEER.

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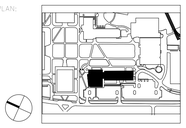
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LICENSED PROFESSIONAL ENGINEER
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COA # 100284 EXPIRATION DATE 09/31/2027

ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:



PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

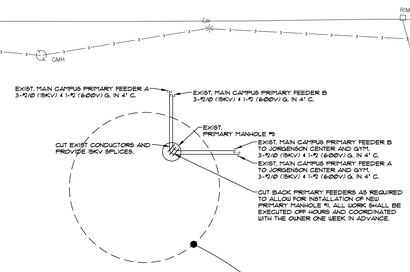
GENERAL

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-001

PRIMARY MANHOLE #9 DETAIL

SCALE: NONE



SITE PLAN - REMOVALS

SCALE: 1" = 20'-0"

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NO. 045890
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COA # 100184 EXPIRATION DATE 8/31/2027

ISSUE/REVISION		
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:

PLAN NORTH

PROJECT:

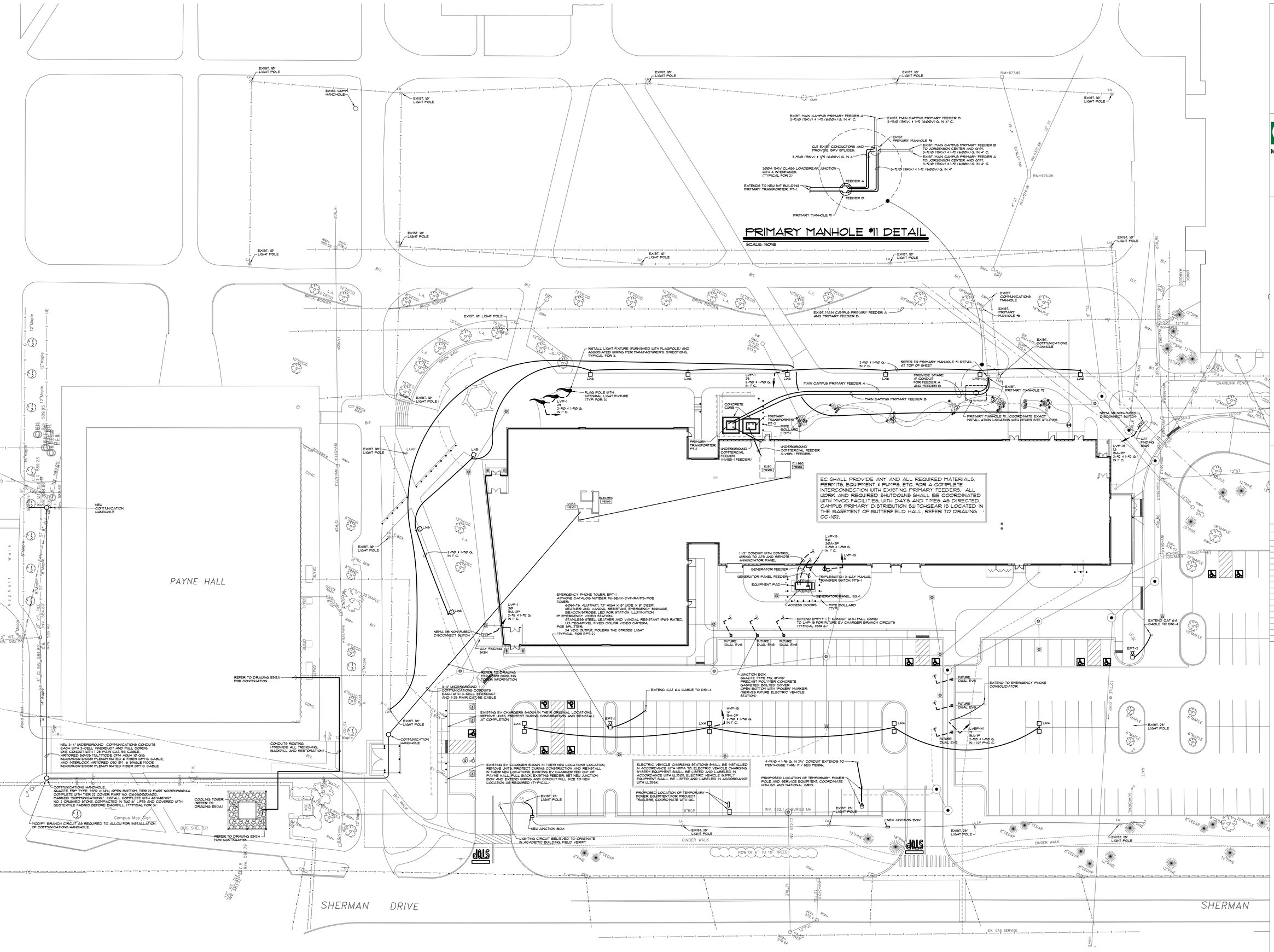
SCIENCE & TECHNOLOGY BUILDING

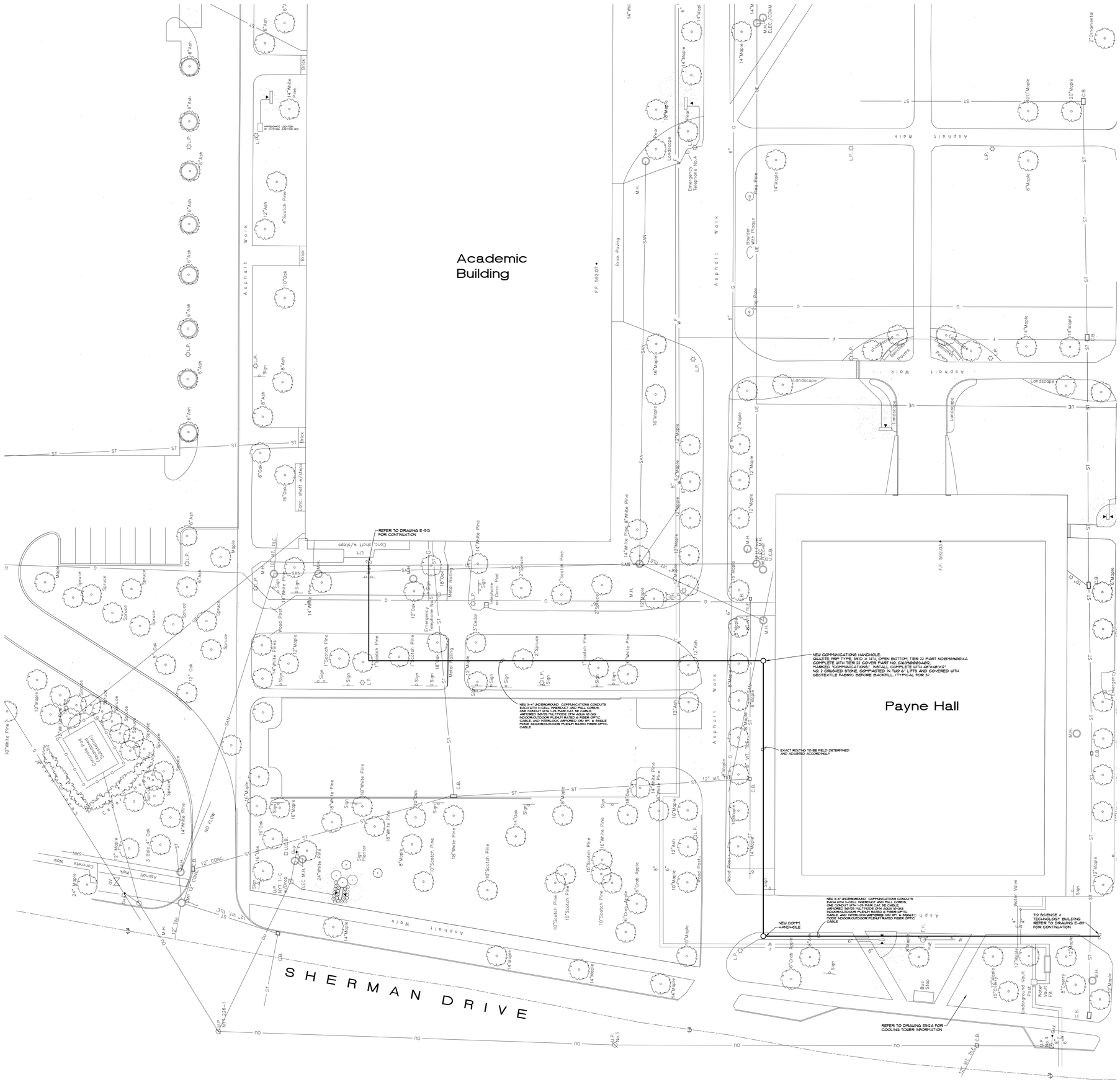
DRAWING TITLE:

SITE PLAN – REMOVALS

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-010


PRIMARY MANHOLE #11 DETAIL
SCALE: NONE
EXIST. MAIN CAMPUS PRIMARY FEEDER A 3-#1/0 (15KV) 4 1-#2 (600V) G. IN 4" C.
EXIST. MAIN CAMPUS PRIMARY FEEDER B 3-#1/0 (15KV) 4 1-#2 (600V) G. IN 4" C.
EXIST. PRIMARY MANHOLE #9
CUT EXIST CONDUCTORS AND PROVIDE 15KV SPLICES.
EXIST. MAIN CAMPUS PRIMARY FEEDER B TO JORGENSON CENTER AND GYM. 3-#1/0 (15KV) 4 1-#2 (600V) G. IN 4" C.
EXIST. MAIN CAMPUS PRIMARY FEEDER A TO JORGENSON CENTER AND GYM. 3-#1/0 (15KV) 4 1-#2 (600V) G. IN 4" C.
3-#1/0 (15KV) 4 1-#2 (600V) G. IN 4"
3-#1/0 (15KV) 4 1-#2 (600V) G. IN 4"
200A 15KV CLASS LOADBREAK JUNCTION WITH 4 INTERFACES. (TYPICAL FOR 2)
EXTENDS TO NEW S4T BUILDING PRIMARY TRANSFORMER, PT-1.
FEEDER A
FEEDER B
PRIMARY MANHOLE #11
RIM=577.89
INV=571.68
RIM=576.08
INV=574.88
EXIST. MAIN CAMPUS PRIMARY FEEDER A AND PRIMARY FEEDER B
EXIST. COMMUNICATIONS MANHOLE
EXIST. PRIMARY MANHOLE #9
EXIST. COMMUNICATIONS MANHOLE
INSTALL LIGHT FIXTURE (FURNISHED WITH FLAGPOLE) AND ASSOCIATED WIRING PER MANUFACTURER'S DIRECTIONS. TYPICAL FOR 3.
2-#2 4 1-#2 G. IN 1" C.
REFER TO PRIMARY MANHOLE #1 DETAIL AT TOP OF SHEET
PROVIDE SPARE 4" CONDUIT FOR FEEDER A AND FEEDER B.
MAIN CAMPUS PRIMARY FEEDER A
MAIN CAMPUS PRIMARY FEEDER B
EXIST. PRIMARY MANHOLE #9
PRIMARY MANHOLE #1, COORDINATE EXACT INSTALLATION LOCATION WITH OTHER SITE UTILITIES.
NEMA 3R NON-FUSED DISCONNECT SWITCH
WAY FINDING SIGN
FLAG POLE WITH INTEGRAL LIGHT FIXTURE (TYP. FOR 3)
LVP-1 2S 2-#2 4 1-#2 G. IN 1" C.
CONCRETE CURB
PRIMARY TRANSFORMER PT-2
PIPE BOLLARD (TYP.)
PRIMARY TRANSFORMER PT-1
UNDERGROUND COMMERCIAL FEEDER (LV66-1 FEEDER)
UNDERGROUND COMMERCIAL FEEDER (LV66-1 FEEDER)
ELEC. HEMS
IT + SEC HEMS
EC SHALL PROVIDE ANY AND ALL REQUIRED MATERIALS, PERMITS, EQUIPMENT & PUMPS, ETC. FOR A COMPLETE INTERCONNECTION WITH EXISTING PRIMARY FEEDERS. ALL WORK AND REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH MVCC FACILITIES, WITH DAYS AND TIMES AS DIRECTED. CAMPUS PRIMARY DISTRIBUTION SWITCHGEAR IS LOCATED IN THE BASEMENT OF BUTTERFIELD HALL, REFER TO DRAWING CC-102.
DATA HEMS
ELECTRIC HEMS
LVP-1S 9,6 3Ø4-2P 2-#2 4 1-#2 G. IN 1" C.
1 1/2" CONDUIT WITH CONTROL WIRING TO ATS AND REMOTE ANNUNCIATOR PANEL.
GENERATOR FEEDER
GENERATOR PANEL FEEDER
EQUIPMENT PAD
TRIPLE-SWITCH 3-WAY MANUAL TRANSFER SWITCH, MTS-1
GENERATOR PANEL EG-1
ACCESS DOORS
PIPE BOLLARD (TYP.)
EMERGENCY PHONE TOWER, EPT-1 AIPHONE CATALOG NUMBER TU-SE/IX-DVF-RA/PS-POE TOWER: 42W-1-T6 ALUMINUM, 73" HIGH X 8" WIDE X 8" DEEP. LEATHER AND VANDAL RESISTANT, EMERGENCY SIGNAGE, BEACON/STROBE, LED FOR STATION ILLUMINATION IP# EMERGENCY VIDEO STATION: STAINLESS STEEL, WEATHER AND VANDAL RESISTANT IP65 RATED, 1/3 1MEGAPIXEL FIXED COLOR VIDEO CAMERA, POE SPLITTER, 24 VDC OUTPUT, POWERS THE STROBE LIGHT (TYPICAL FOR EPT-2)
LVP-1S 3,6 3Ø4-2P 2-#2 4 1-#2 G. IN 1" C.
NEMA 3R NON-FUSED DISCONNECT SWITCH
WAY FINDING SIGN
EXTEND EMPTY 1 1/2" CONDUIT WITH PULL CORD TO LVP-1S FOR FUTURE EV CHARGER BRANCH CIRCUITS (TYPICAL FOR 6)
FUTURE DUAL EVS
EXTEND CAT 6A CABLE TO DRI-4
EPT-2
JUNCTION BOX QUAZITE TYPE PG, 13"X18" PRECAST POLYMER CONCRETE GASKETED BOLTED COVER OPEN BOTTOM WITH "POLARI" MARKER (SERVES FUTURE ELECTRIC VEHICLE STATION)
EXTEND TO EMERGENCY PHONE CONSOLIDATOR
LVP-1S 12 3Ø4-3P 2-#2 4 1-#2 G. IN 1" C.
EPT-1
LVP-1N 11 3Ø4-3P 4-#2 4 1-#2 G. IN 1 1/2" PVC C.
EXIST. 25' LIGHT POLE
EXISTING EV CHARGERS SHOWN IN THEIR ORIGINAL LOCATIONS. REMOVE UNITS, PROTECT DURING CONSTRUCTION AND REINSTALL AT COMPLETION
EXISTING EV CHARGER SHOWN IN THEIR NEW LOCATIONS LOCATION. REMOVE UNITS, PROTECT DURING CONSTRUCTION AND REINSTALL IN THEIR NEW LOCATIONS. EXISTING EV CHARGER RED OUT OF PAYNE HALL PULL BACK EXISTING FEEDER, SET NEW JUNCTION BOX AND EXTEND WIRING AND CONDUIT FULL SIZE TO NEW LOCATION AS REQUIRED (TYPICAL)
ELECTRIC VEHICLE CHARGING STATIONS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 ELECTRIC VEHICLE CHARGING SYSTEM EQUIPMENT SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL2202, ELECTRIC VEHICLE SUPPLY EQUIPMENT SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL1994.
4-#4/0 1 1-#6 G. IN 3½" CONDUIT EXTENDS TO PENTHOUSE THRU IT / SEC MEI06.
PROPOSED LOCATION OF TEMPORARY POWER EQUIPMENT FOR PROJECT TRAILERS, COORDINATE WITH GC.
PROPOSED LOCATION OF TEMPORARY POWER POLE AND SERVICE EQUIPMENT, COORDINATE WITH GC AND NATIONAL GRID.
NEW JUNCTION BOX
LIGHTING CIRCUIT BELIEVED TO ORIGINATE IN ACADEMIC BUILDING, FIELD VERIFY
CINDER WALK
ROW OF 6" TO 10" TREES
EX. GAS SERVICE
PAYNE HALL
SHERMAN DRIVE
NEW COMMUNICATION MANHOLE
NEW 3-4" UNDERGROUND COMMUNICATIONS CONDUITS EACH WITH 3-CELL INNERDUCT AND PULL CORD, ONE CONDUIT WITH 1-25 PAIR CAT. 5E CABLE, ARMORED 50/125 MULTIMODE OM4 AQUA 10 GIG INDOOR/OUTDOOR PLENUM RATED & FIBER OPTIC CABLE, AND INTERLOCK ARMORED OS1 8/1 6 SINGLE MODE INDOOR/OUTDOOR PLENUM RATED FIBER OPTIC CABLE
CONDUITS ROUTING (PROVIDE ALL TRENCHING, BACKFILL AND RESTORATION)
COMMUNICATIONS MANHOLE, QUAZITE PRP TYPE, 39"D X 14"H, OPEN BOTTOM, TIER 22 PART NO:B1339D0144 COMPLETE WITH TIER 22 COVER PART NO. C1639D0030AD2, MARKED "COMMUNICATIONS." INSTALL COMPLETE WITH 48"X48"X12" NO. 3 CRUSHED STONE, COMPACTED IN TWO 6" LIFTS AND COVERED WITH GEOTEXTILE FABRIC BEFORE BACKFILL. (TYPICAL FOR 3)
MODIFY BRANCH CIRCUIT AS REQUIRED TO ALLOW FOR INSTALLATION OF COMMUNICATIONS MANHOLE.
COOLING TOWER (REFER TO DRAWING ES02A)
BUS SHELTER
Campus Map Sign
REFER TO DRAWING ES02A FOR CONTINUATION
REFER TO DRAWING ES02A FOR CONTINUATION
REFER TO DRAWING ES02A FOR COOLING TOWER INFORMATION
3-4" UNDERGROUND COMMUNICATIONS CONDUITS EACH WITH 3-CELL INNERDUCT, AND 1-25 PAIR CAT. 5E CABLE
EXIST. 10' LIGHT POLE
COMMUNICATION HANDHOLE
EXIST. 10' LIGHT POLE
EXIST. COMM. HANDHOLE
EXIST. 10' LIGHT POLE
EXIST. 10' LIGHT POLE
EXIST. 10' LIGHT PO



SITE PLAN (ACADEMIC BUILDING)

SCALE: 1" = 20'-0"

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SEAL:

LICENSED PROFESSIONAL ENGINEER — WILLIAM H. TOWNE — NO. 045890 — UNIVERSITY OF THE STATE OF NEW YORK — COA # 101084 EXPIRATION DATE 08/31/2027

ISSUE/REVISION

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:

PLAN NORTH

PROJECT:

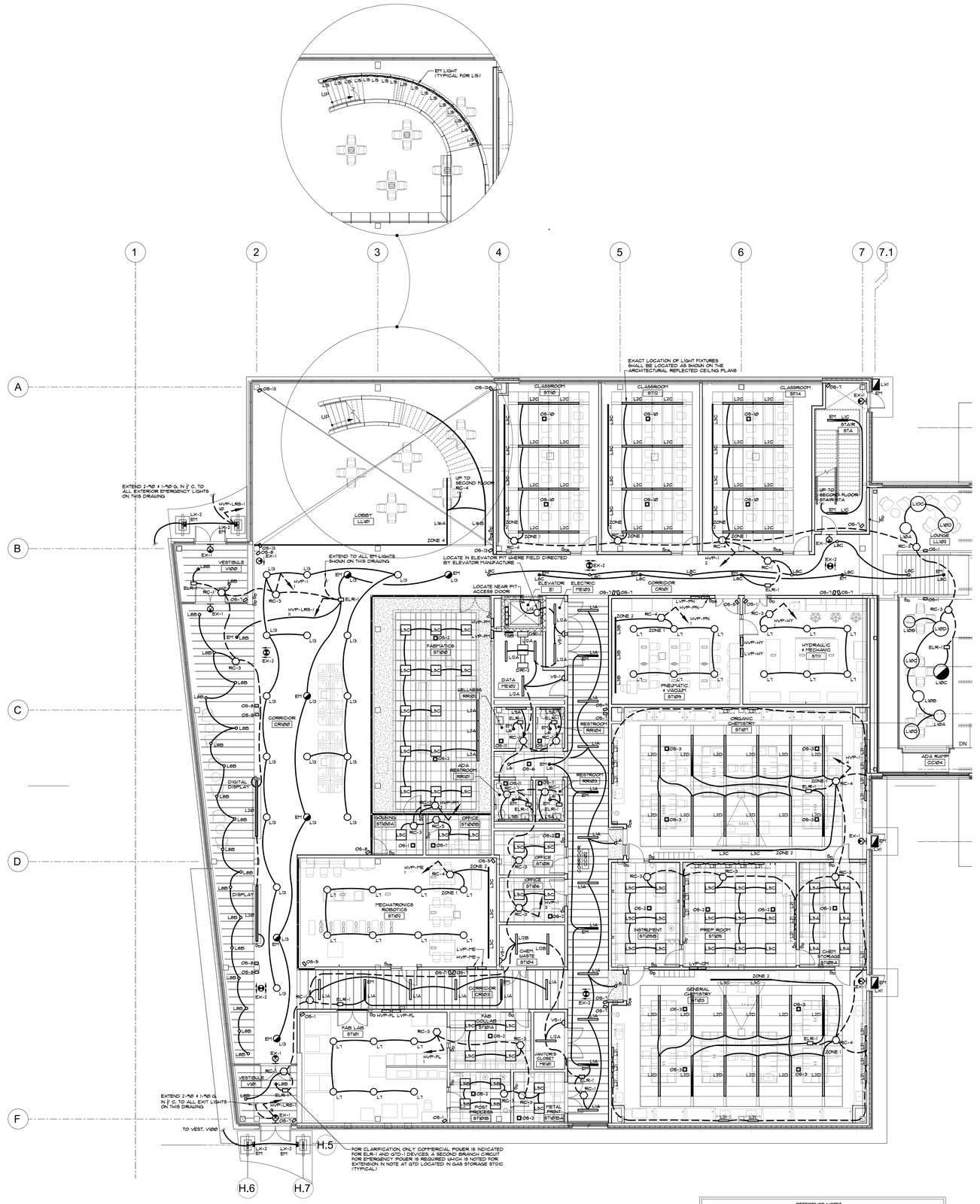
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

SITE PLAN (ACADEMIC BUILDING)

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-012



FIRST FLOOR PLAN - HEAD (LIGHTING)

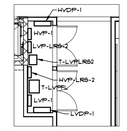
SCALE: 1/8" = 1'-0"

REFERENCE NOTES

1. LIGHT FIXTURE LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLANS PRIOR TO INSTALLATION.

2. ALL DEVICES (JUNCTION BOXES, ROOM CONTROLLERS, EMERGENCY LIGHTING RELAYS, ETC.) AND ASSOCIATED CONDUITS SHALL BE INSTALLED IN THE MOST INCONSPICUOUS WAY POSSIBLE IN ANY AREA/ROOM WITHIN THE FIRST FLOOR OR SECOND FLOOR OF THE BUILDING HEAD (WITHOUT A CEILING). CONDUITS SHALL EXTEND PARALLEL AND PERPENDICULAR TO THE WOOD FRAMING WHERE EVER POSSIBLE. CONDUITS SHALL BE RUN PARALLEL TO THE WOOD BEAMS TO KEEP CONDUIT CROSSINGS TO A MINIMUM. ALL ROOM CONTROLLERS, EMERGENCY LIGHTING RELAYS, ETC. SHALL BE INSTALLED ON THE PARTITIONS NEAR THE STRUCTURE/CEILING WHERE EVER POSSIBLE TO KEEP THE STRUCTURE FREE AND CLEAR.

3. BRANCH CIRCUITING ROUTING ON THE FLOOR PLANS IS SHOWN ONLY FOR REFERENCE AND TO INDICATE WHICH LIGHT FIXTURES AND DEVICES ARE TO BE WIRED ON THAT PARTICULAR BRANCH CIRCUIT. ACTUAL ROUTING OF ALL CONDUITS SHALL BE FIELD DETERMINED AND FIELD COORDINATED WITH ALL OTHER TRADES.



ELECTRIC ME103 FLOOR PLAN

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

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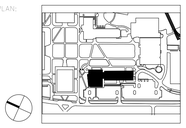
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KEY PLAN:



PLAN NORTH

PROJECT:

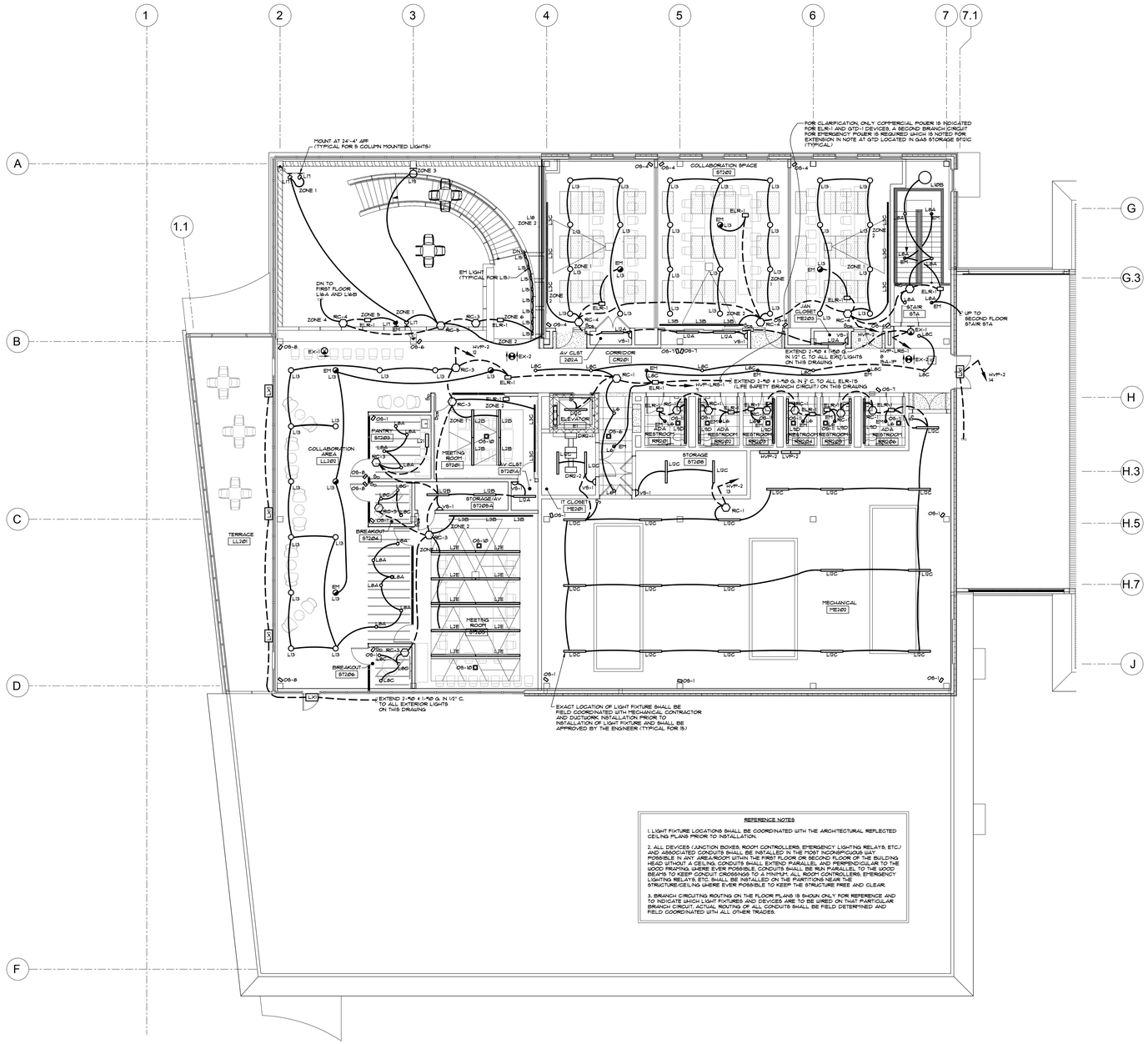
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

FIRST FLOOR PLAN – HEAD (LIGHTING)

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-101



REFERENCE NOTES

1. LIGHT FIXTURE LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLANS PRIOR TO INSTALLATION.

2. ALL DEVICES (JUNCTION BOXES, ROOM CONTROLLERS, EMERGENCY LIGHTING RELAYS, ETC.) AND ASSOCIATED CONDUITS SHALL BE INSTALLED IN THE MOST INCONSPICUOUS WAY POSSIBLE IN ANY AREA/ROOM WITHIN THE FIRST FLOOR OR SECOND FLOOR OF THE BUILDING HEAD WITHOUT A CEILING, CONDUITS SHALL EXTEND PARALLEL AND PERPENDICULAR TO THE WOOD FRAMING. WHERE EVER POSSIBLE, CONDUITS SHALL BE RAN PARALLEL TO THE WOOD BEAMS TO KEEP CONDUIT CROSSINGS TO A MINIMUM. ALL ROOM CONTROLLERS, EMERGENCY LIGHTING RELAYS, ETC. SHALL BE INSTALLED ON THE PARTITIONS NEAR THE STRUCTURE/CEILING WHERE EVER POSSIBLE TO KEEP THE STRUCTURE FREE AND CLEAR.

3. BRANCH CIRCUITING ROUTING ON THE FLOOR PLANS IS SHOWN ONLY FOR REFERENCE AND TO INDICATE WHICH LIGHT FIXTURES AND DEVICES ARE TO BE WIRED ON THAT PARTICULAR BRANCH CIRCUIT. ACTUAL ROUTING OF ALL CONDUITS SHALL BE FIELD DETERMINED AND FIELD COORDINATED WITH ALL OTHER TRADES.

SECOND FLOOR PLAN - HEAD (LIGHTING)

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

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SEAL:

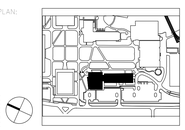
LICENSED PROFESSIONAL ENGINEER
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STATE OF NEW YORK
COA # 031004 EXPIRATION DATE: 09/31/2025

ISSUE/REVISION:

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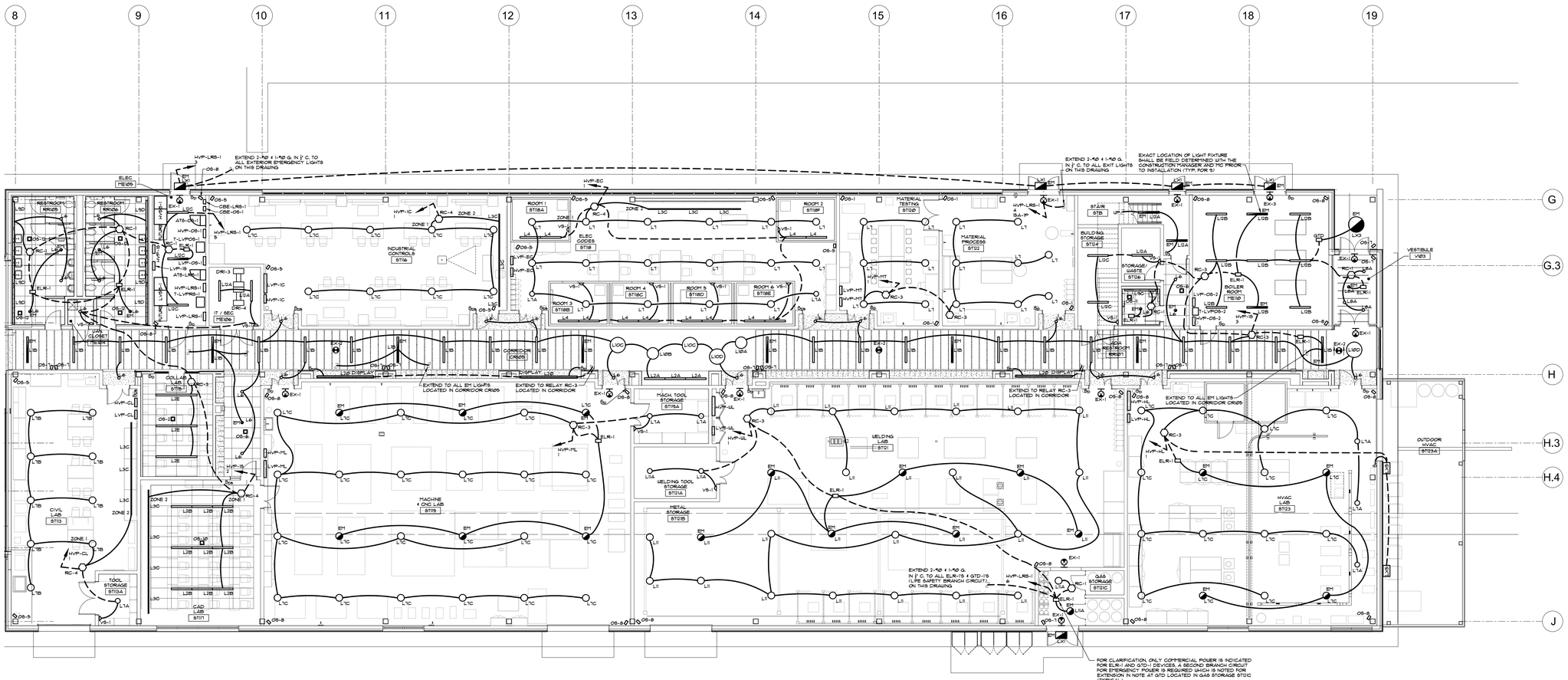
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

SECOND FLOOR PLAN – HEAD (LIGHTING)

PROJECT NO: 23000 (4038) | DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION | SCALE: AS NOTED

E-102



FIRST FLOOR PLAN - SHED (LIGHTING)

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

REFERENCE NOTES

1. LIGHT FIXTURE LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLANS PRIOR TO INSTALLATION.

2. ALL DEVICES (JUNCTION BOXES, ROOM CONTROLLERS, EMERGENCY LIGHTING RELAYS, ETC.) AND ASSOCIATED CONDUITS SHALL BE INSTALLED IN THE MOST INCONSPICUOUS WAY POSSIBLE IN ANY AREA/ROOM WITHIN THE FIRST FLOOR OR SECOND FLOOR OF THE BUILDING. HEAD (WHOUT A CEILING, CONDUITS SHALL EXTEND PARALLEL AND PERPENDICULAR TO THE WOOD FRAMING. WHERE EVER POSSIBLE, CONDUITS SHALL BE RUN PARALLEL TO THE WOOD BEAMS TO KEEP CONDUIT CROSSINGS TO A MINIMUM. ALL ROOM CONTROLLERS, EMERGENCY LIGHTING RELAYS, ETC. SHALL BE INSTALLED ON THE PARTITIONS NEAR THE STRUCTURE/CEILING WHERE EVER POSSIBLE TO KEEP THE STRUCTURE FREE AND CLEAR.

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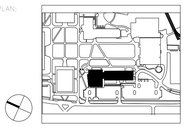
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KEY PLAN:



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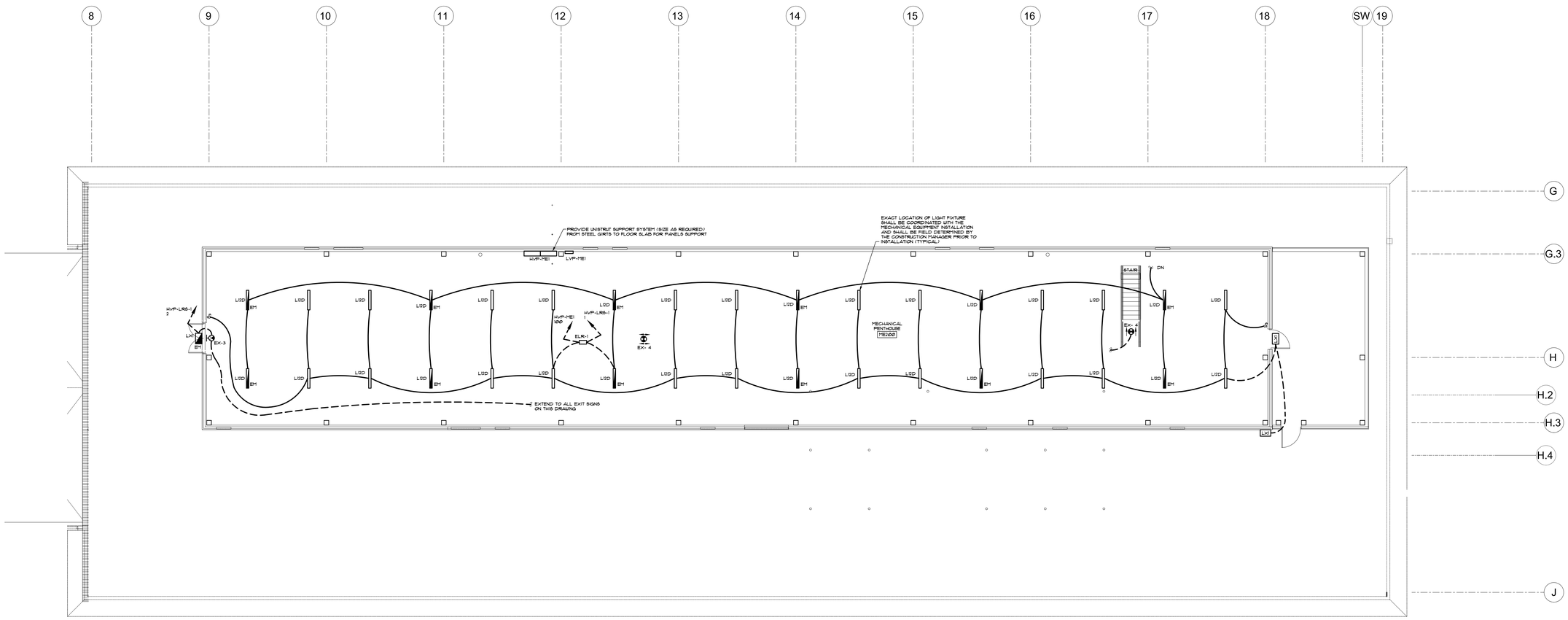
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

FIRST FLOOR PLAN – SHED (LIGHTING)

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-103



PENTHOUSE FLOOR PLAN - SHED (LIGHTING)

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

NORTH

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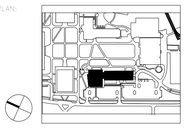
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KEY PLAN:



PROJECT:

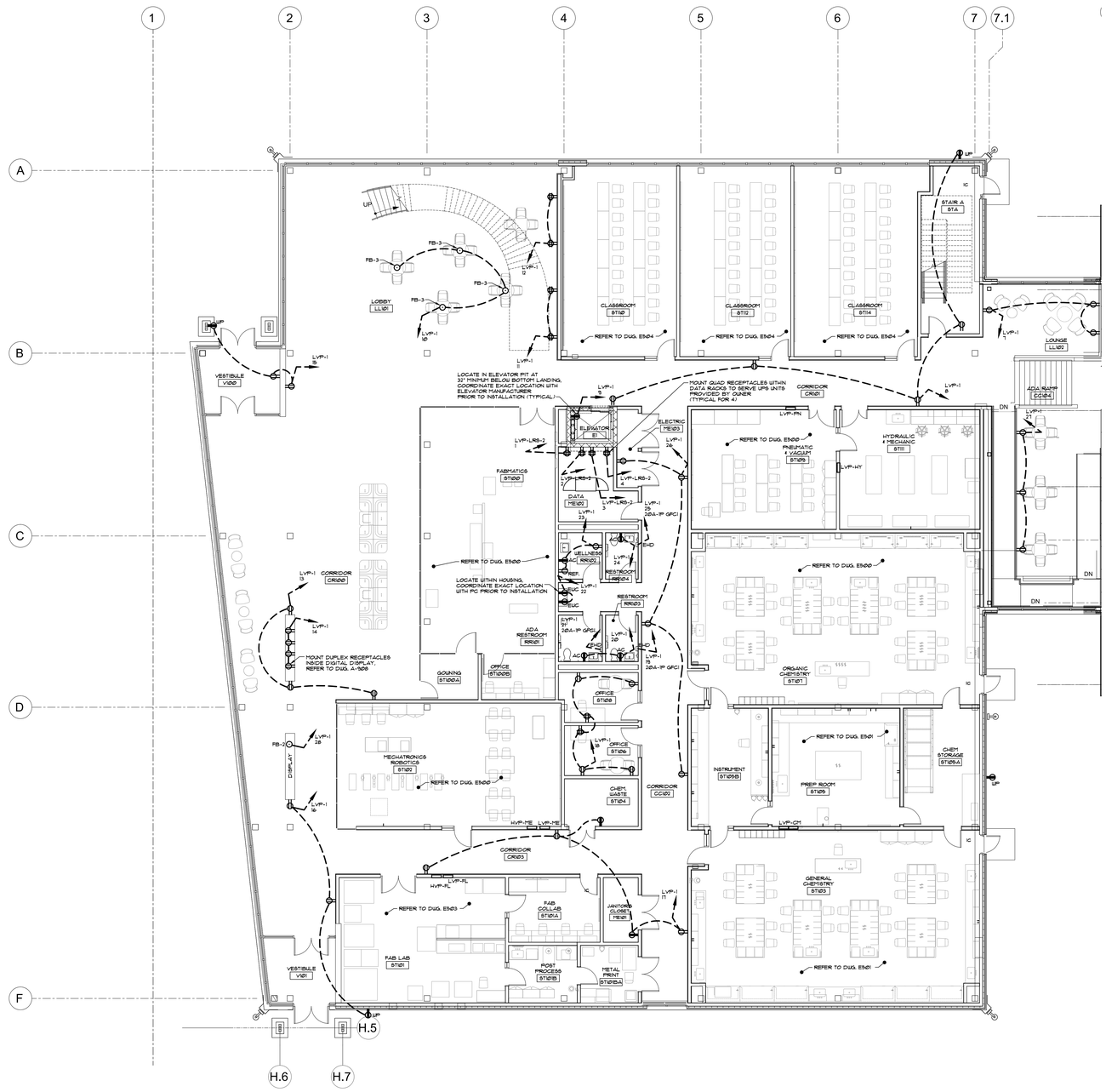
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

PENTHOUSE FLOOR PLAN - SHED (LIGHTING)

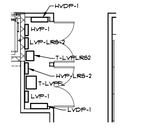
PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-104



FIRST FLOOR PLAN - HEAD (POWER)

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



ELECTRIC ME103 FLOOR PLAN

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

EQUIPMENT NOTES

FLOOR BOX, FB-2
ARLINGTON CAT. NO. FLBG8SDDFLBG8SBNL (3 UNITS)
TRIPLE GANG NON-METALLIC FLOOR BOX KIT
ONE 1" POWER CONDUIT AND ONE 1 1/2" LOW VOLTAGE CONDUIT
TWO DECORATOR DUPLEX USB RECEPTACLE (LEVITON T5833 OR EQUAL)
ONE CAT. 6 TWO PORT KEYSTONE
THREE GANG RECESSED NICKEL-PLATED ZINC COVER/FRAME KIT
POWER WIRING AND TWO CAT 6 DATA CABLES TO DATA RACK.
(TYPICAL)

FLOOR BOX, FB-3
ARLINGTON CAT. NO. FLBG8SDDFLBG8SBNL (3 UNITS)
DOUBLE GANG NON-METALLIC FLOOR BOX KIT
ONE 1" POWER CONDUIT AND ONE 1 1/2" LOW VOLTAGE CONDUIT
ONE DECORATOR DUPLEX USB RECEPTACLE (LEVITON T5833 OR EQUAL)
ONE CAT. 6 TWO PORT KEYSTONE
DOUBLE GANG RECESSED NICKEL-PLATED ZINC COVER/FRAME KIT
POWER WIRING AND TWO CAT 6 DATA CABLES TO DATA RACK.
(TYPICAL)

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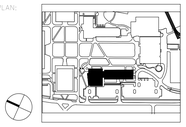
SEAL:

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COA # 100184 EXPIRATION DATE: 09/31/2027

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KEY PLAN:



PLAN NORTH

PROJECT:

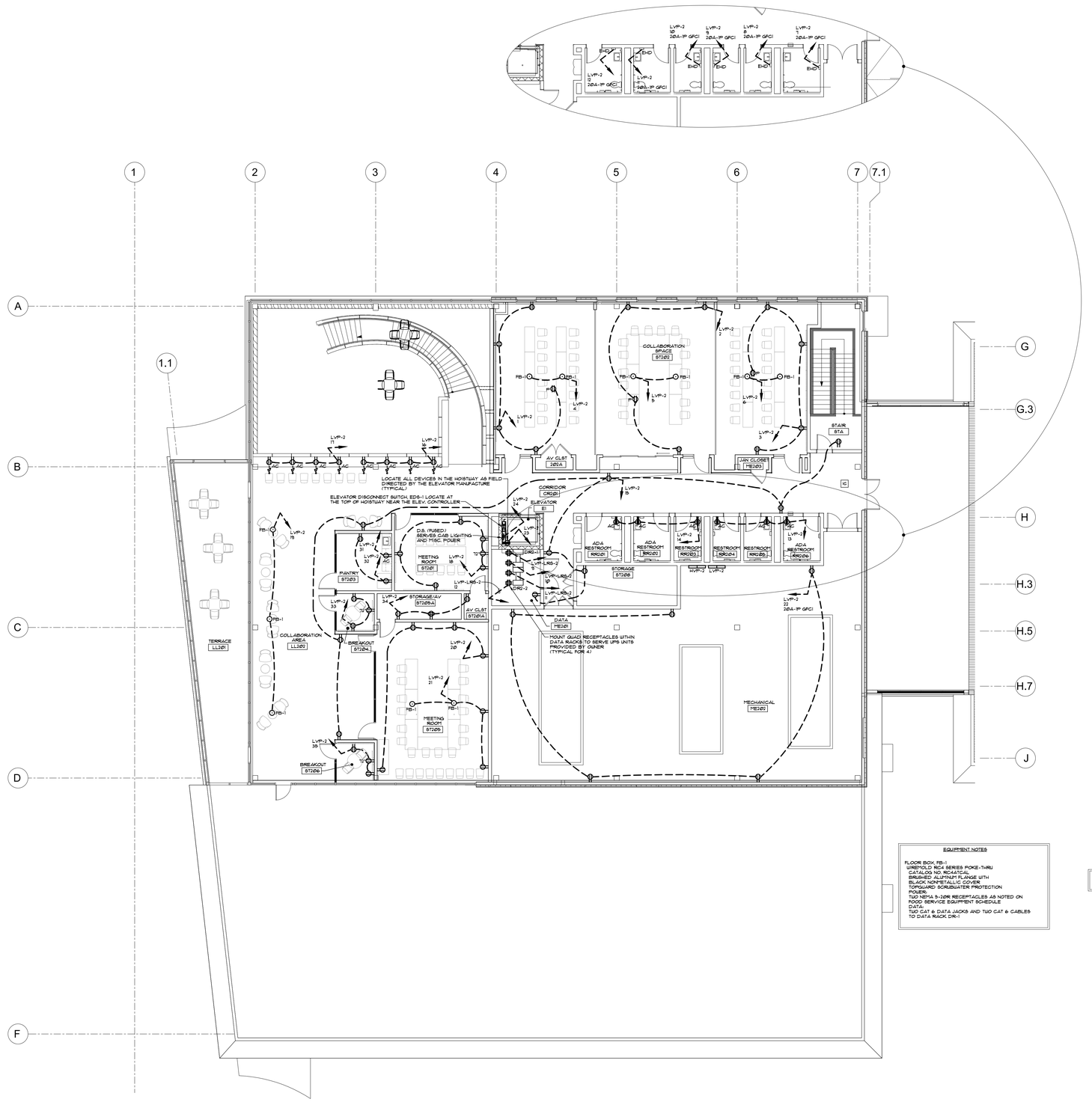
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

FIRST FLOOR PLAN – HEAD (POWER)

PROJECT NO: 23000 (4038) | DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION | SCALE: AS NOTED

E-201



SECOND FLOOR PLAN - HEAD (POWER)

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

EQUIPMENT NOTES

FLOOR BOX, FB-1
WIREMOLD RC4 SERIES POKE-THRU
CATALOG NO. RC4ATCAL
BRUSHED ALUMINUM FLANGE WITH
BLACK NONMETALLIC COVER
TOPGUARD SCRUBWATER PROTECTION
POWER:
TWO NEMA 5-20R RECEPTACLES AS NOTED ON FOOD SERVICE EQUIPMENT SCHEDULE
DATA:
TWO CAT 6 DATA JACKS AND TWO CAT 6 CABLES TO DATA RACK DR-1

PROVIDE TWO QUAD RECEPTACLES IN AV CLOSET 2A12A WITH EACH RECEPTACLE HAVING A 20-AMP DEDICATED BRANCH CIRCUIT TO PANEL LVP-2.

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CODE # 101594 EXPIRATION DATE 09/31/2027
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KEY PLAN:

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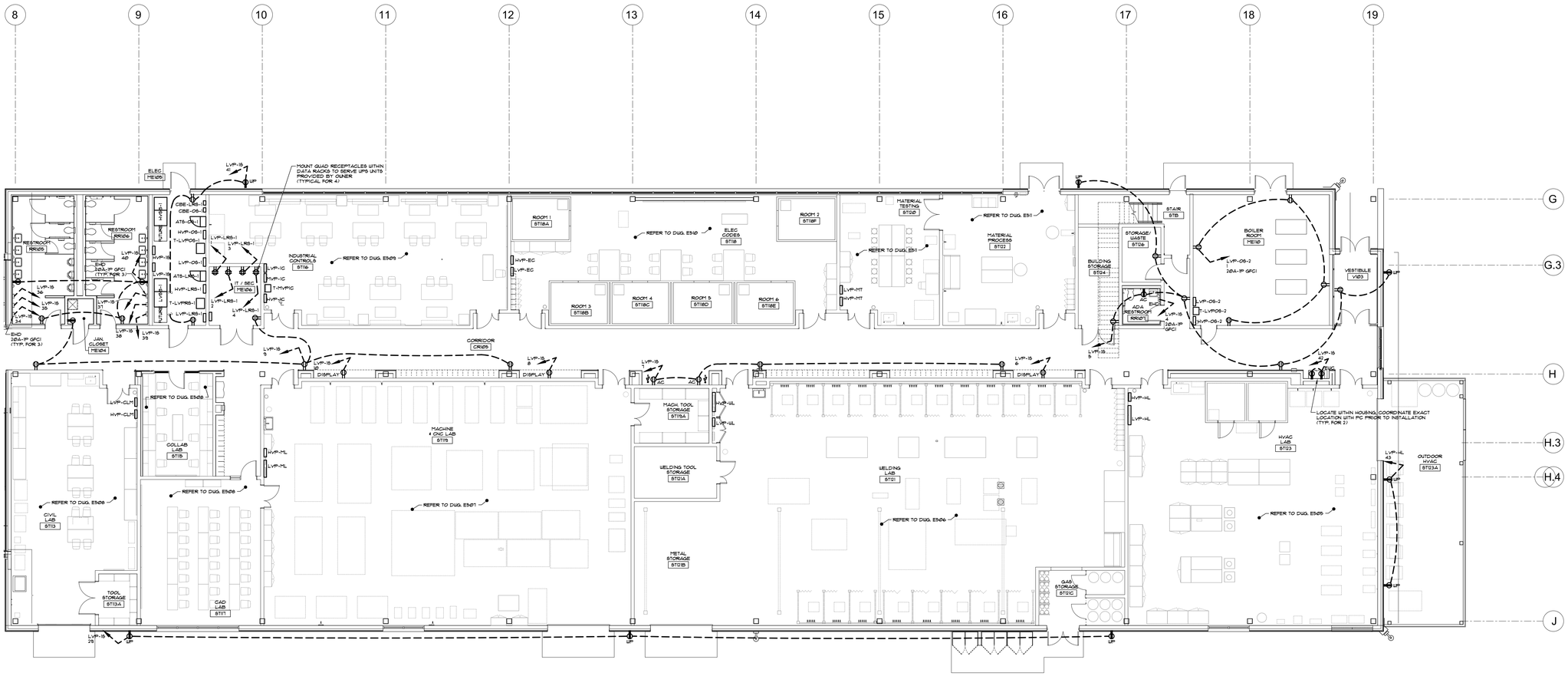
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

SECOND FLOOR PLAN – HEAD (POWER)

PROJECT NO: 23000 (4038) | DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION | SCALE: AS NOTED

E-202



FIRST FLOOR PLAN - SHED (POWER)

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

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NO. 045890
UNIVERSITY OF THE STATE OF NEW YORK
COA # 100184 EXPIRATION DATE 08/31/2027

ISSUE/REVISION		
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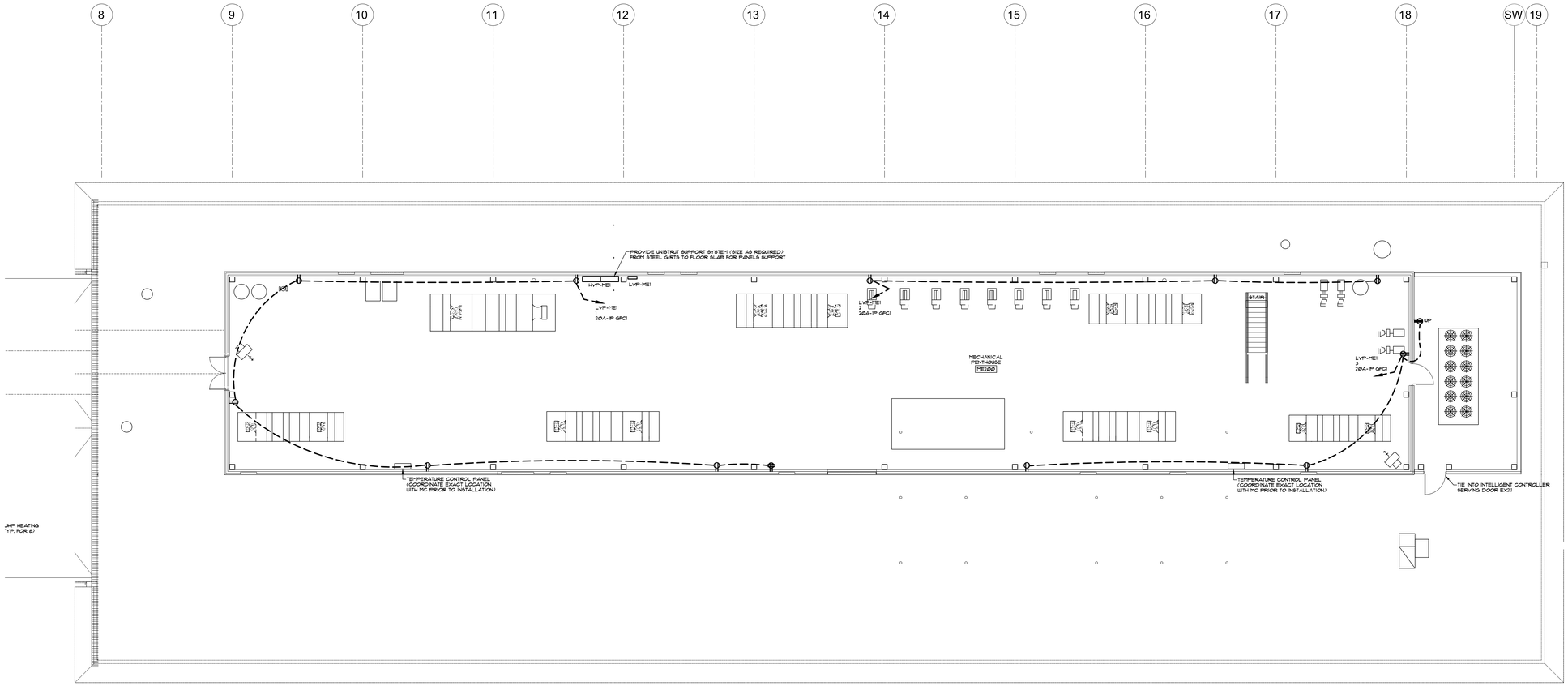
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

FIRST FLOOR PLAN – SHED (POWER)

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-203



PENTHOUSE FLOOR PLAN - SHED (POWER)

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

NORTH

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315 476 1022

SEAL:

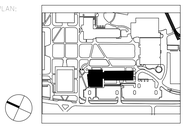
LICENSED PROFESSIONAL ENGINEER
WILLIAM H. TOWNE
NO. 045800
UNIVERSITY OF THE STATE OF NEW YORK
COA # 101084 EXPIRATION DATE 08/31/2027

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:



PROJECT:

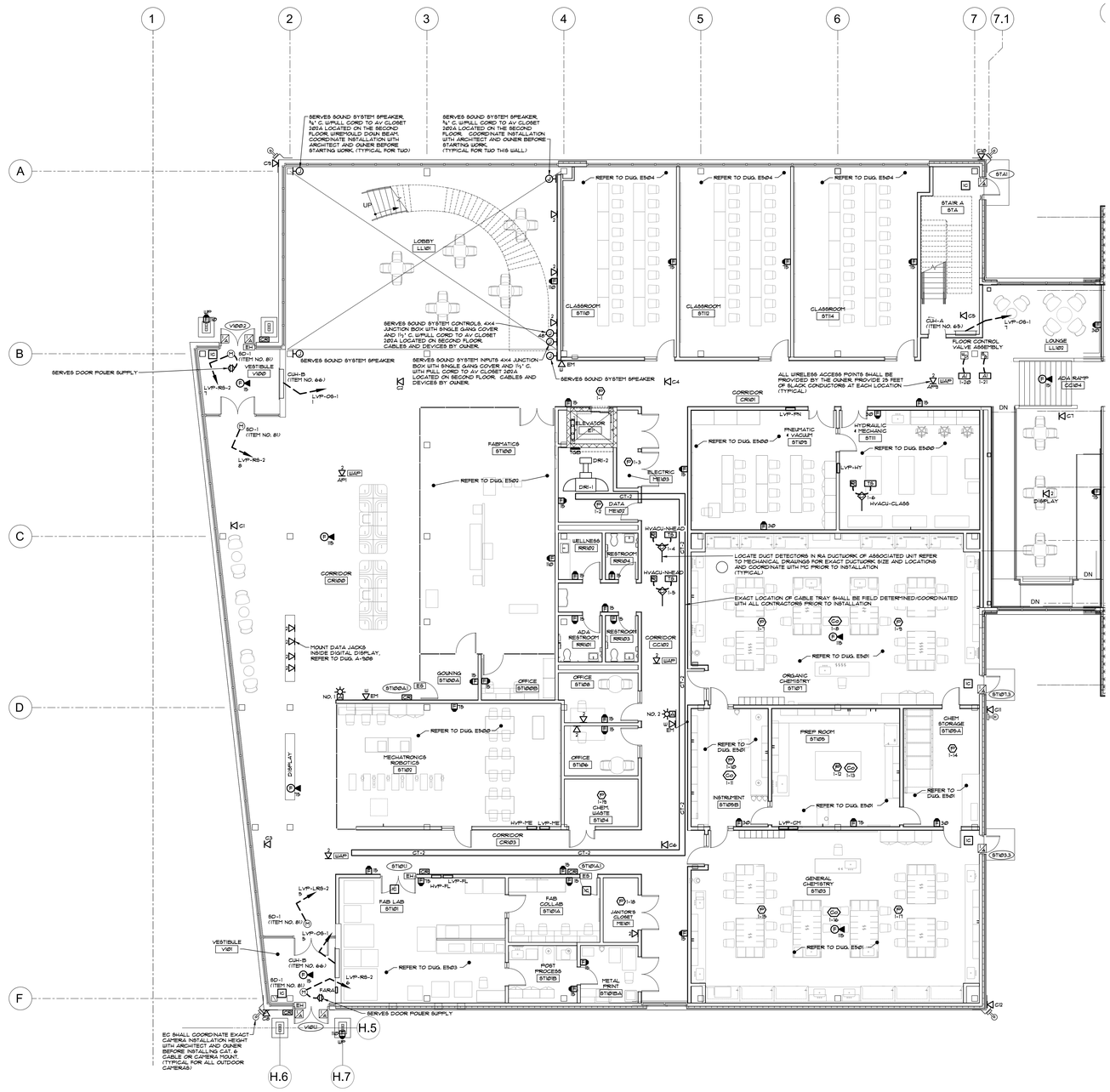
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

PENTHOUSE FLOOR PLAN - SHED (POWER)

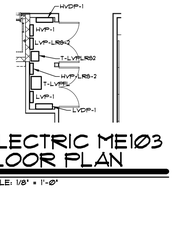
PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-204



FIRST FLOOR PLAN - HEAD (MISC.)

SCALE: 1/8" = 1'-Ø"



ELECTRIC ME103 FLOOR PLAN

SCALE: 1/8" = 1'-Ø"

PROVIDE ONE MANUAL FIRE ALARM PULL STATION WHERE FIELD DIRECTED BY ARCHITECT/OWNER TO MEET NEW YORK STATE BUILDING CODE REQUIREMENT FOR BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM PER SECTION 907 FIRE ALARM AND DETECTION SYSTEMS.

ONEIDA COUNTY NEW YORK 1798

MVCC
MOHAWK VALLEY COMMUNITY COLLEGE

1101 SHERMAN DRIVE
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(315) 792-5400

ARCHITECT:

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Mitchell Giurgola

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SITE | CIVIL ENGINEER:
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102 West Division Street, Suite 100
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315 476 1022

SEAL:

LICENSED PROFESSIONAL ENGINEER — WILLIAM H. TOWNE — NO. 045860 — STATE OF NEW YORK — COA # 100344 EXPIRATION DATE: 04/31/2027

ISSUE/REVISION		
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:

PLAN NORTH

PROJECT:

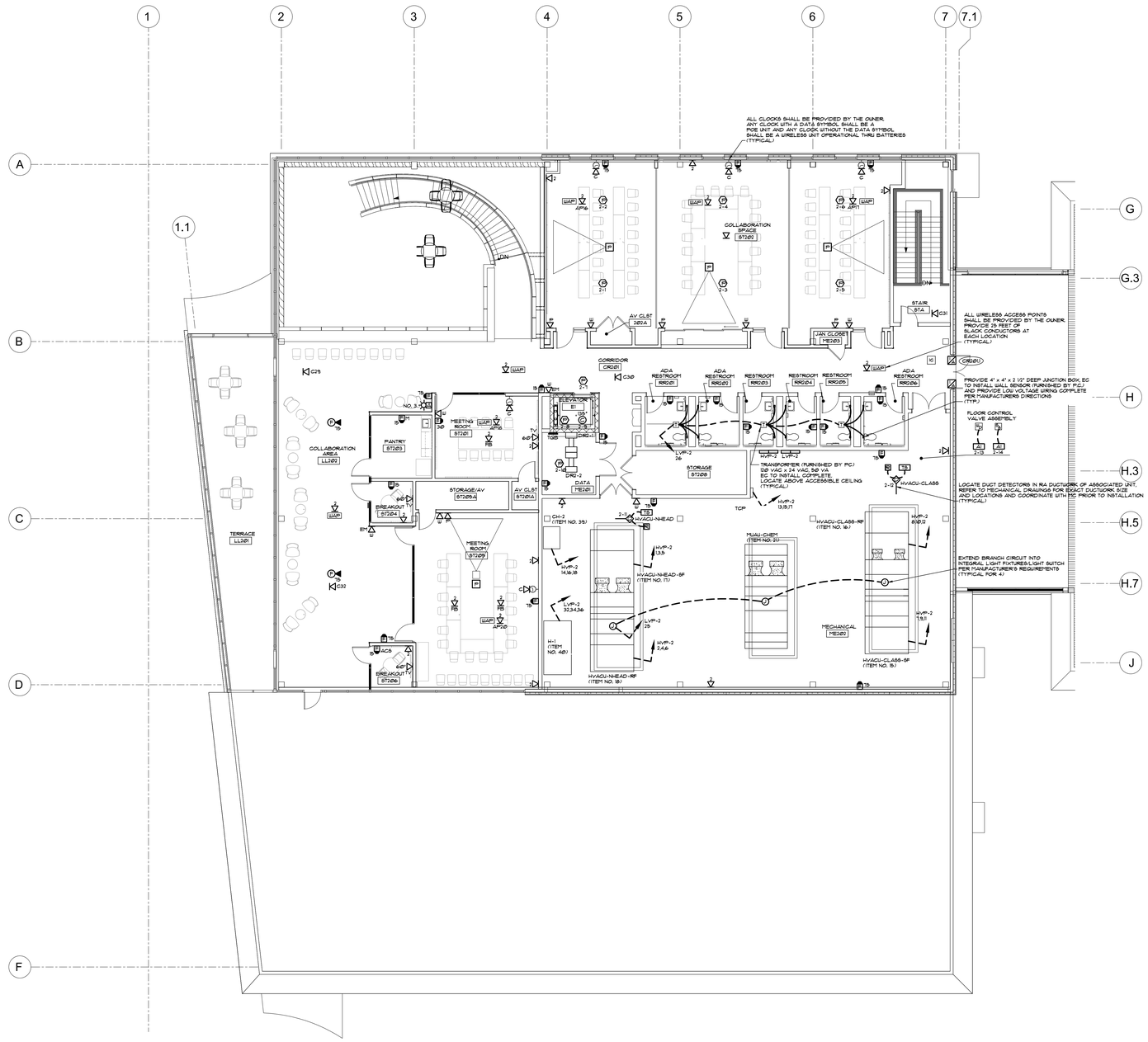
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

FIRST FLOOR PLAN – HEAD (MISC.)

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-301



SECOND FLOOR PLAN - HEAD (MISC)

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

ONEIDA COUNTY NEW YORK 1798

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MOHAWK VALLEY COMMUNITY COLLEGE

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SEAL:

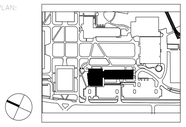
LICENSED PROFESSIONAL ENGINEER — WILLIAM H. TOWNE — NO. 045880 — UNIVERSITY OF THE STATE OF NEW YORK — COA # 101084 EXPIRATION DATE 08/31/2027

ISSUE/REVISION:

NO.	DATE	COMMENTS
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KEY PLAN:



PLAN NORTH

PROJECT:

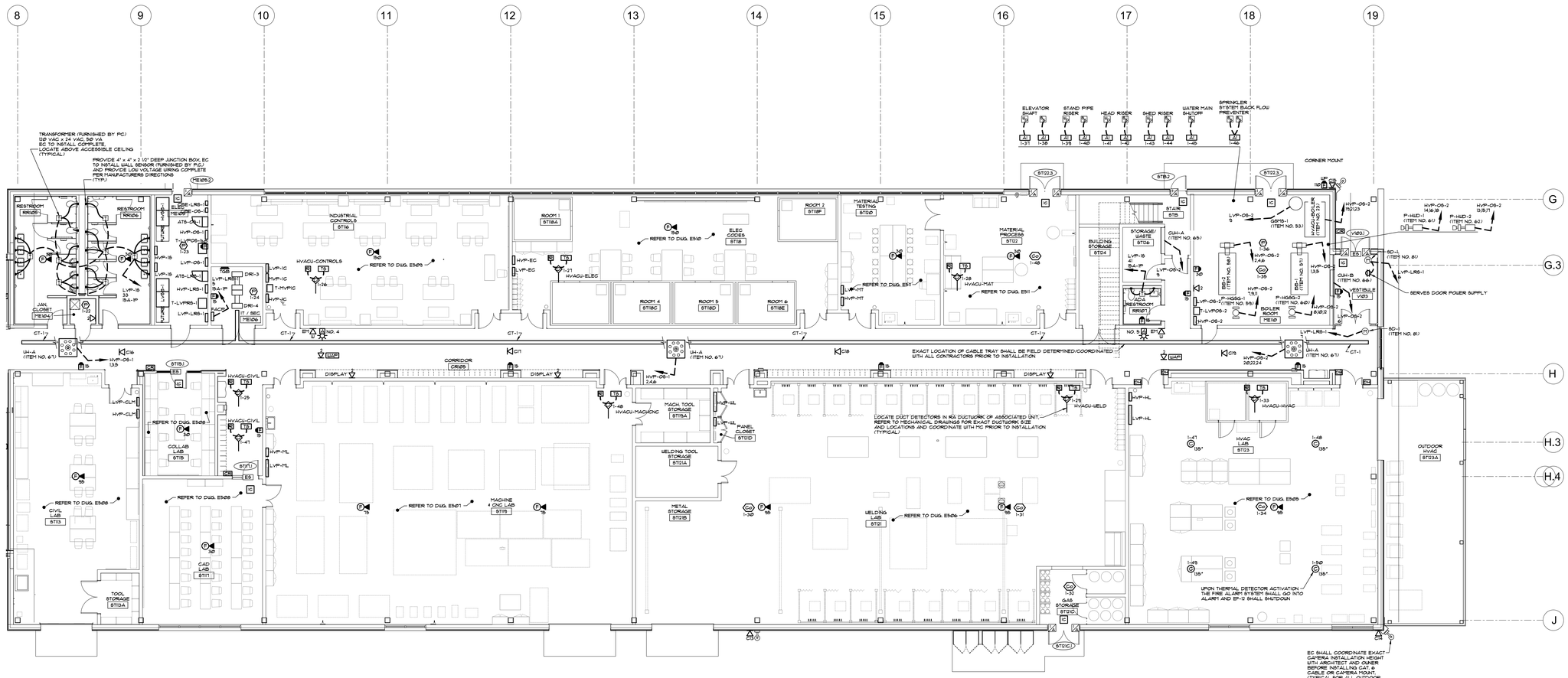
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

SECOND FLOOR PLAN – HEAD (MISC.)

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-302



FIRST FLOOR PLAN - SHED (MISC.)

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

ONEIDA COUNTY NEW YORK 1798

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MOHAWK VALLEY COMMUNITY COLLEGE

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ARCHITECT:

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Syracuse, NY 13204
315 476 1022

SEAL:

LICENSED PROFESSIONAL ENGINEER — WILLIAM H. TOWNE — No. 045860 — UNIVERSITY OF THE STATE OF NEW YORK — EXPIRATION DATE: 09/31/2027

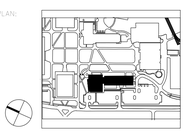
ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:



PLAN NORTH

PROJECT:

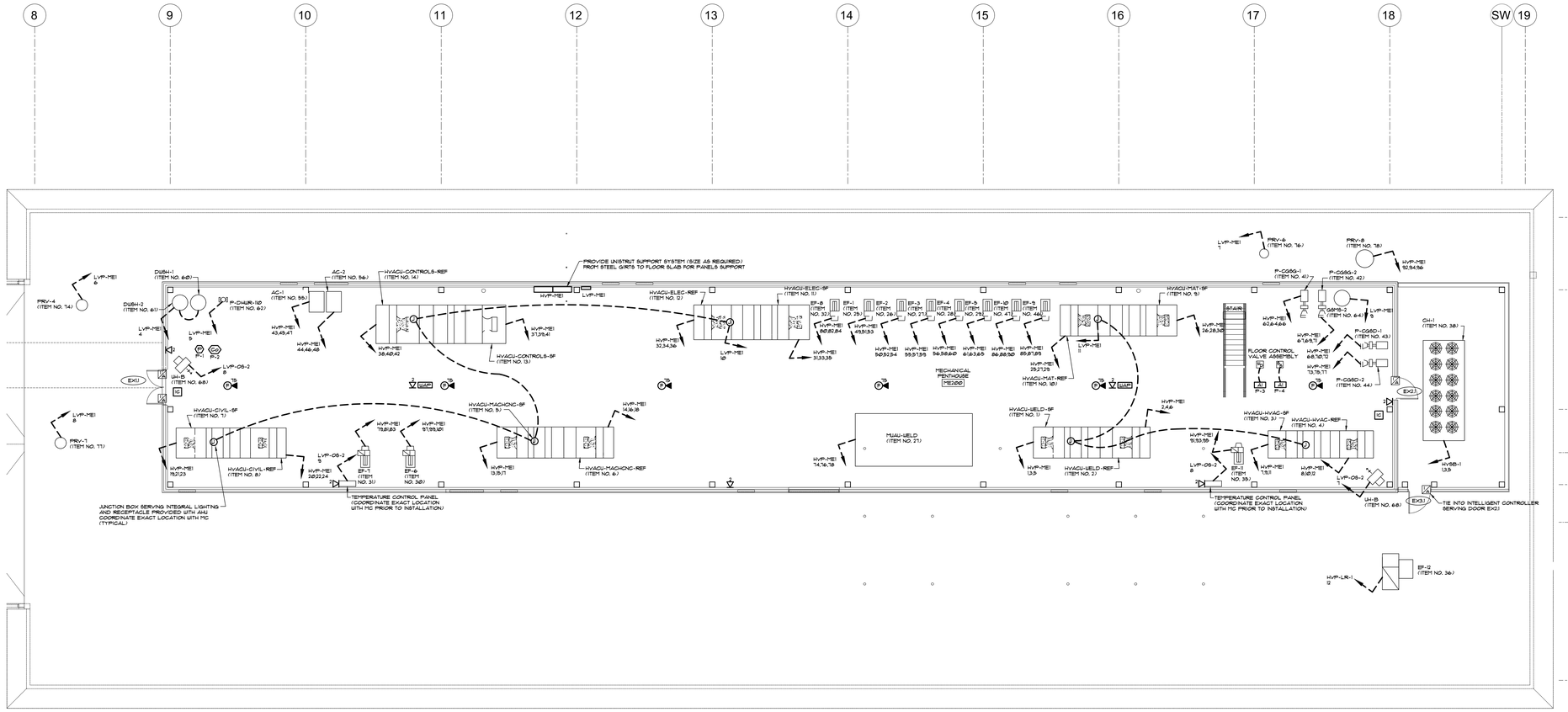
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

FIRST FLOOR PLAN – SHED (MISC.)

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-303



PENTHOUSE FLOOR PLAN -SHED (MISC.)

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

NORTH E S W

ONEIDA COUNTY NEW YORK 1798

MVCC
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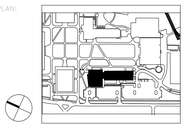
SEAL:

LICENSED PROFESSIONAL ENGINEER
WILLIAM H. TOWNE
NO. 045890
STATE OF NEW YORK
COA # 101084 EXPIRATION DATE 8/31/2027

ISSUE/REVISION:		
NO.	DATE	COMMENTS
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KEY PLAN:



PLAN NORTH

PROJECT:

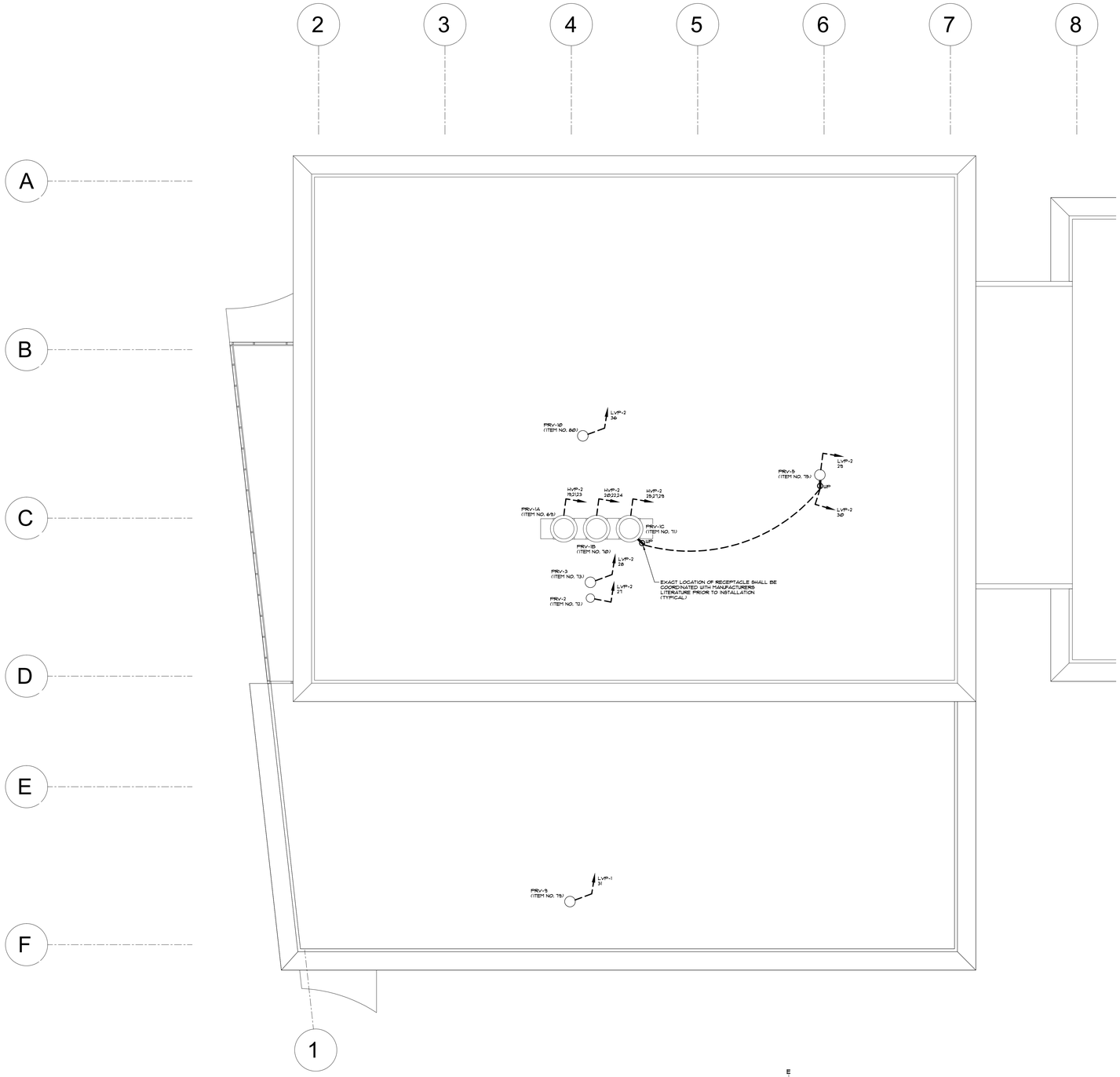
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

PENTHOUSE FLOOR PLAN - SHED (MISC.)

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-304



ROOF PLAN - HEAD

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

N
NORTH
E
S
W

ONEIDA COUNTY NEW YORK 1798

MVCC
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315 476 1022

SEAL:

COA # 103084 EXPIRATION DATE 09/31/2027
LICENSED PROFESSIONAL ENGINEER
WILLIAM H. TOWNE
NO. 045890
UNIVERSITY OF THE STATE OF NEW YORK

ISSUE/REVISION:		
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KEY PLAN:

PLAN NORTH

PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

ROOF PLAN - HEAD

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-305

EQUIPMENT NOTES

PANEL: LVP-ME (MECHATRONICS & ROBOTICS)
EATON, POWER LINE 3X, RECESS MOUNT
CHARACTERISTICS:
480/277V-3Ø-4W
INTERRUPTING CAPACITY:
22,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 100A-3P SHUNT TRIP MAIN BREAKER
ONE ENCLOSURE, 42 POLES
(1) 20A-3P 5PWRE
(1) 20A-1P ACTIVE
(3) 20A-1P 5PWRE
(3) 20A-1P GFCI 5PWRE
(1) 15A-3P 5PWRE
(1) 15A-1P 5PWRE
(3) 15A-1P GFCI 5PWRE
(23) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL: LVP-PN (PNEUMATICS & VACUUM)
EATON, POWER LINE 3X, RECESS MOUNT
CHARACTERISTICS:
480/277V-3Ø-4W
INTERRUPTING CAPACITY:
22,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 100A-3P SHUNT TRIP MAIN BREAKER
ONE ENCLOSURE, 42 POLES
(1) 20A-3P 5PWRE
(1) 20A-1P ACTIVE
(3) 20A-1P 5PWRE
(3) 20A-1P GFCI 5PWRE
(1) 15A-3P 5PWRE
(1) 15A-1P 5PWRE
(3) 15A-1P GFCI 5PWRE
(23) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL: LVP-HY (HYDRAULICS & MECHANIC)
EATON, POWER LINE 3X, RECESS MOUNT
CHARACTERISTICS:
480/277V-3Ø-4W
INTERRUPTING CAPACITY:
39,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 100A-3P SHUNT TRIP MAIN BREAKER
ONE ENCLOSURES, 42 POLES
(1) 20A-3P 5PWRE
(1) 20A-1P ACTIVE
(3) 20A-1P 5PWRE
(3) 20A-1P GFCI 5PWRE
(1) 15A-3P 5PWRE
(3) 15A-1P 5PWRE
(3) 15A-1P GFCI 5PWRE
(23) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

ELECTRIC CORD REEL, ECR-1
HUBBELL CATALOG NO. HBL12S24SF12WH
12AWG 3 CONDUCTOR 25 FOOT LONG SJO CORD
20 AMPS, 120 VOLTS, CEILING MOUNTED, WHITE
UL LISTED, INDUSTRIAL POWER CORD REEL
GFCI MODULE, TWO 20 AMP DUPLEX RECEPTACLES
COMPLETE WITH ANGLE IRON SUPPORT AS REQUIRED.
(TYPICAL)

ETHERNET CABLE REEL, ECR-1
STAGE NINJA CATALOG NO. 3CAT6-30-CT
30 FOOT RETRACTABLE DUAL ETHERNET CABLE REEL
PREMIUM M-FLEX CAT6 SHIELDED CABLES SLEEVED IN TECH-FLEX
ADJUSTABLE TENSION, 10,000 CYCLE SPRING DRIVE.
WHITE POWDER COAT STEEL REEL, 26 POUNDS
COMPLETE WITH ANGLE IRON SUPPORT AS REQUIRED.
(TYPICAL)

PANEL: LVP-HR (MECHATRONICS & ROBOTICS)
EATON, POWER LINE 3X, RECESS MOUNT
CHARACTERISTICS:
480/277V-3Ø-4W
INTERRUPTING CAPACITY:
22,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 125A-3P SHUNT TRIP MAIN BREAKER
ONE ENCLOSURE, 42 POLES
(3) 20A-2P GFCI ACTIVE
(10) 20A-1P ACTIVE
(7) 20A-1P 5PWRE
(4) 20A-1P GFCI ACTIVE
(3) 20A-1P GFCI 5PWRE
(1) 15A-1P ACTIVE
(3) 15A-1P 5PWRE
(3) 15A-1P GFCI 5PWRE
(23) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL: LVP-PN (PNEUMATICS & VACUUM)
EATON, POWER LINE 3X, RECESS MOUNT
CHARACTERISTICS:
480/277V-3Ø-4W
INTERRUPTING CAPACITY:
22,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 125A-3P SHUNT TRIP MAIN BREAKER
ONE ENCLOSURE, 42 POLES
(7) 20A-1P ACTIVE
(9) 20A-1P 5PWRE
(5) 20A-1P GFCI ACTIVE
(3) 20A-1P GFCI 5PWRE
(4) 15A-1P 5PWRE
(2) 15A-1P GFCI ACTIVE
(18) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL: LVP-HY (HYDRAULICS & MECHANIC)
EATON, POWER LINE 3X, RECESS MOUNT
CHARACTERISTICS:
480/277V-3Ø-4W
INTERRUPTING CAPACITY:
22,000 A RMS SYMMETRICAL
ARRANGEMENT:
125 MAINS, 125A-3P SHUNT TRIP MAIN BREAKER
ONE ENCLOSURE, 42 POLES
(3) 20A-1P ACTIVE
(5) 20A-1P 5PWRE
(6) 20A-1P GFCI ACTIVE
(3) 20A-1P GFCI ACTIVE
(3) 15A-1P 5PWRE
(3) 15A-1P GFCI 5PWRE
(19) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

SURFACE RACEWAY, SR-ME-1 (MECHATRONICS)
WIREMOLD ALS2100 SERIES, TWO COMPARTMENT, ALUMINUM RACEWAY
9'-0" LONG, 8.5 SQUARE INCHES,
6 QUAD RECEPTACLES,
2 DATA JACKS AND 4 CAT 6 DATA CABLES TO DATA RACK AS NOTED
COMPLETE WITH BASE, COVER, DIVIDER, WIRE CLIPS, DEVICE COVER PLATES
AND ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION

SURFACE RACEWAY, SR-PN-1 (PNEUMATICS)
WIREMOLD ALS2100 SERIES, TWO COMPARTMENT, ALUMINUM RACEWAY
12'-0" LONG, 8.5 SQUARE INCHES,
6 QUAD RECEPTACLES,
2 DATA JACKS AND 4 CAT 6 DATA CABLES TO DATA RACK AS NOTED
COMPLETE WITH BASE, COVER, DIVIDER, WIRE CLIPS, DEVICE COVER PLATES
AND ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION

SURFACE RACEWAY, SR-HY-1 (HYDRAULICS)
WIREMOLD ALS2100 SERIES, TWO COMPARTMENT, ALUMINUM RACEWAY
12'-0" LONG, 8.5 SQUARE INCHES,
6 QUAD RECEPTACLES,
2 DATA JACKS AND 4 CAT 6 DATA CABLES TO DATA RACK AS NOTED
COMPLETE WITH BASE, COVER, DIVIDER, WIRE CLIPS, DEVICE COVER PLATES
AND ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION

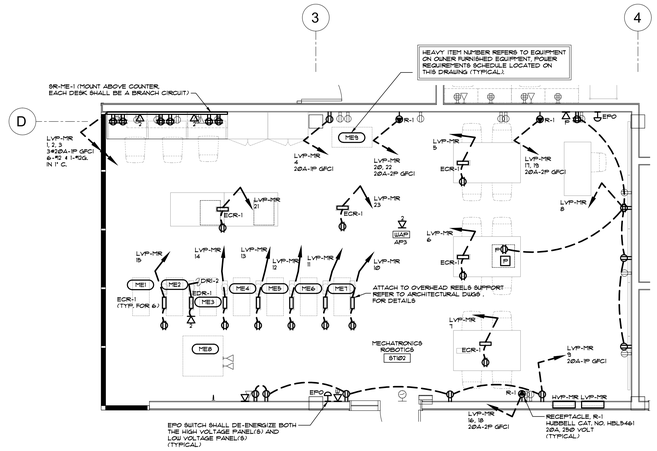
OWNER FURNISHED EQUIPMENT, POWER REQUIREMENTS SCHEDULE

ROOM	NO.	EQUIPMENT	MANUFCTURER	MODEL NUMBER	HP OR A	PHASE	VOLTAGE	PANEL	CIRCUIT BREAKER	WIRING	DATA	REFERENCE NOTES
MECHATRONICS	ME1	MECH. DRIVE SYSTEM	AMATROL	950-ME	9 A	1	120	LVP-ME	- - -	- - -	N	POWERED FROM CORD REEL ①
	ME2	MECH. DRIVE SYSTEM	AMATROL	950-ME	9 A	1	120	LVP-ME	- - -	- - -	N	POWERED FROM CORD REEL ①
	ME3	MECH. DRIVE SYSTEM	AMATROL	950-ME	9 A	1	120	LVP-ME	- - -	- - -	N	POWERED FROM CORD REEL ①
	ME4	MECH. DRIVE SYSTEM	AMATROL	950-ME	9 A	1	120	LVP-ME	- - -	- - -	N	POWERED FROM CORD REEL ①
	ME5	MECH. DRIVE SYSTEM	AMATROL	950-ME	9 A	1	120	LVP-ME	- - -	- - -	N	POWERED FROM CORD REEL ①
	ME6	MECH. DRIVE SYSTEM	AMATROL	950-ME	9 A	1	120	LVP-ME	- - -	- - -	N	POWERED FROM CORD REEL ①
	ME7	MECH. DRIVE SYSTEM	AMATROL	950-ME	9 A	1	120	LVP-ME	- - -	- - -	N	POWERED FROM CORD REEL ①
	ME8	ROBOTICS LEARNING SYSTEM	AMATROL		16 A	1	120	LVP-ME	- - -	- - -	Y	POWERED FROM CORD REEL ①
	MES	AIR COMPRESSOR	SILENAIRE	SIL-AIR-100-30	9.6 A	1	115	LVP-ME	15A-1P GFCI	2-#12 4-#2 G. IN ¾" C.	N	POWERED FROM RECEPTACLE ②
HYDRAULICS	HR1	2-SIDED HYDRAULIC STATIONS	AMATROL	850-HDI	15 A	1	120	LVP-HY	- - -	- - -	N	POWERED FROM CORD REEL ①
	HR2	2-SIDED HYDRAULIC STATIONS	AMATROL	850-HDI	15 A	1	120	LVP-HY	- - -	- - -	N	POWERED FROM CORD REEL ①
	HR3	2-SIDED HYDRAULIC STATIONS	AMATROL	850-HDI	15 A	1	120	LVP-HY	- - -	- - -	N	POWERED FROM CORD REEL ①
	HR4	MECH. DRIVE TRAINERS	AMATROL	950-ME	15 A	1	120	LVP-HY	- - -	- - -	N	POWERED FROM CORD REEL ①
	HR5	MECH. DRIVE TRAINERS	AMATROL	950-ME	15 A	1	120	LVP-HY	- - -	- - -	N	POWERED FROM CORD REEL ①
	HR6	MECH. DRIVE TRAINERS	AMATROL	950-ME	15 A	1	120	LVP-HY	- - -	- - -	N	POWERED FROM CORD REEL ①
	HR7	HAZARD WASTE BIN										NO ELECTRIC
PNEUMATICS	PN1	VACUUM TRAINERS			12.8 A	1	120	LVP-PN	- - -	- - -	N	POWERED FROM CORD REEL ①
	PN2	VACUUM TRAINERS			12.8 A	1	120	LVP-PN	- - -	- - -	N	POWERED FROM CORD REEL ①
	PN3	VACUUM TRAINERS			12.8 A	1	120	LVP-PN	- - -	- - -	N	POWERED FROM CORD REEL ①
	PN4	VACUUM TRAINERS			12.8 A	1	120	LVP-PN	- - -	- - -	N	POWERED FROM CORD REEL ①
	PN5	VACUUM TRAINERS			12.8 A	1	120	LVP-PN	- - -	- - -	N	POWERED FROM CORD REEL ①
	PN6	VACUUM TRAINERS			12.8 A	1	120	LVP-PN	- - -	- - -	N	POWERED FROM CORD REEL ①

REFERENCE NOTES

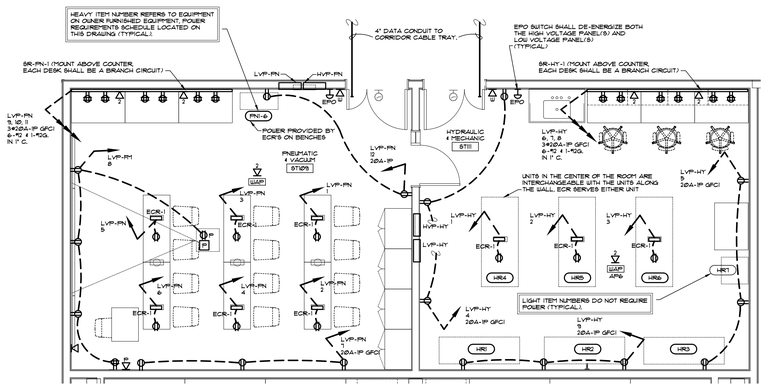
① UNIT PROVIDED WITH CORD AND PLUG AND POWERED BY ELECTRIC CORD REEL ABOVE.

② EQUIPMENT PROVIDED WITH CORD AND PLUG AND REQUIRES A NEMA 5-20R DUPLEX RECEPTACLE (HUBBELL CATALOG NUMBER HBL5352).



ENLARGED PLAN - MECHATRONICS ROBOTICS

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



ENLARGED PLAN - PNEUMATICS & HYDRAULICS

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

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SITE | CIVIL ENGINEER:
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315 476 1022

SEAL:

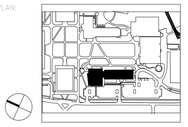
LICENSED PROFESSIONAL ENGINEER — WILLIAM H. TOWNE — NO. 045890 — UNIVERSITY OF THE STATE OF NEW YORK — COA # 100184 EXPIRATION DATE: 08/31/2027

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

KEY PLAN:



PLAN NORTH

PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

ENLARGED PLAN – MECHATRONICS ROBOTICS, PNEUMATICS & HYDRAULICS

PROJECT NO: 23000 (4038) | DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION | SCALE: AS NOTED

E-500

PANELBOARD / EQUIPMENT NOTES

PANEL LVP-CH (CHEMISTRY)
EATON, POWER LINE 3X, RECESS MOUNT
CHARACTERISTICS:
120/208V-3Ø-4W
INTERRUPTING CAPACITY:
22,000 A RMS SYMMETRICAL
ARRANGEMENT:
225A MAINS, 150A-3P SAINT TRIP MAIN BREAKER
TWO ENCLOSURES, 48 POLES EACH
(3) 20A-1P ACTIVE
(7) 20A-1P SPARE
(63) 20A-1P GFCI ACTIVE
(3) 20A-1P GFCI SPARE
(3) 15A-1P SPARE
4 SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

LAB BENCH PEDESTAL TABLE BOX, LBPTB-1
WIREMOLD CAT. NO. AL248-HB
CLEAR ANODIZED ALUMINUM, 4 COMPARTMENT
COMPLETE WITH TWO TWO-GANG FACEPLATES
WIREMOLD CAT. NO. AL24PBNA-D WITH
ONE DUPLEX DEVICE OPENING AND ONE ACTIVATE DEVICE OPENING
ONE DUPLEX RECEPTACLE AND ONE CAT 6 DATA JACK
WITH TAYMAC GRAY DIECAST METAL IN USE COVER
EXTEND CAT 6 CABLE TO DATA RACK DR1-1
(TYPICAL FOR 26

SURFACE RACEWAY, SR-CM-1
WIREMOLD AL5200 SERIES, TWO COMPARTMENT, ALUMINUM RACEWAY
9'-0" LONG, 83 SQUARE INCHES,
12 DUPLEX TVSS RECEPTACLES,
COMPLETE WITH BASE COVER, DIVIDER, WIRE CLIPS, DEVICE COVER PLATES
AND ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION

SURFACE RACEWAY, SR-CM-2
WIREMOLD AL5200 SERIES, TWO COMPARTMENT, ALUMINUM RACEWAY
11'-0" LONG, 83 SQUARE INCHES,
16 DUPLEX TVSS RECEPTACLES,
COMPLETE WITH BASE COVER, DIVIDER, WIRE CLIPS, DEVICE COVER PLATES
AND ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION

SURFACE RACEWAY, SR-CM-3A
WIREMOLD AL5200 SERIES, TWO COMPARTMENT, ALUMINUM RACEWAY
10'-0" LONG, 83 SQUARE INCHES,
10 DUPLEX TVSS RECEPTACLES,
2 DATA JACKS WITH TWO CAT 6 DATA CABLES TO DATA RACK
COMPLETE WITH BASE COVER, DIVIDER, WIRE CLIPS, DEVICE COVER PLATES
AND ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION

SURFACE RACEWAY, SR-CM-3B
WIREMOLD AL5200 SERIES, TWO COMPARTMENT, ALUMINUM RACEWAY
10'-0" LONG, 83 SQUARE INCHES,
10 DUPLEX TVSS RECEPTACLES,
2 DATA JACKS WITH TWO CAT 6 DATA CABLES TO DATA RACK
COMPLETE WITH BASE COVER, DIVIDER, WIRE CLIPS, DEVICE COVER PLATES
AND ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION

SURFACE RACEWAY, SR-CM-4
WIREMOLD AL5200 SERIES, TWO COMPARTMENT, ALUMINUM RACEWAY
9'-0" LONG, 83 SQUARE INCHES,
20 DUPLEX TVSS RECEPTACLES,
4 DATA JACKS WITH FOUR CAT 6 DATA CABLES TO DATA RACK
COMPLETE WITH BASE COVER, DIVIDER, WIRE CLIPS, DEVICE COVER PLATES
AND ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION

SURFACE RACEWAY, SR-CM-5
WIREMOLD AL5200 SERIES, TWO COMPARTMENT, ALUMINUM RACEWAY
11'-0" LONG, 83 SQUARE INCHES,
12 DUPLEX TVSS RECEPTACLES,
COMPLETE WITH BASE COVER, DIVIDER, WIRE CLIPS, DEVICE COVER PLATES
AND ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION

SURFACE RACEWAY, SR-CM-6
WIREMOLD AL5200 SERIES, TWO COMPARTMENT, ALUMINUM RACEWAY
11'-0" LONG, 83 SQUARE INCHES,
12 DUPLEX TVSS RECEPTACLES,
COMPLETE WITH BASE COVER, DIVIDER, WIRE CLIPS, DEVICE COVER PLATES
AND ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION

SURFACE RACEWAY, SR-CM-7
WIREMOLD AL5200 SERIES, TWO COMPARTMENT, ALUMINUM RACEWAY
10'-0" LONG, 83 SQUARE INCHES,
9 DUPLEX TVSS RECEPTACLES,
COMPLETE WITH BASE COVER, DIVIDER, WIRE CLIPS, DEVICE COVER PLATES
AND ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION

SURFACE RACEWAY, SR-CM-8
WIREMOLD AL5200 SERIES, TWO COMPARTMENT, ALUMINUM RACEWAY
9'-0" LONG, 83 SQUARE INCHES,
9 DUPLEX TVSS RECEPTACLES,
COMPLETE WITH BASE COVER, DIVIDER, WIRE CLIPS, DEVICE COVER PLATES
AND ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION

SURFACE RACEWAY, SR-CM-9
WIREMOLD AL5200 SERIES, TWO COMPARTMENT, ALUMINUM RACEWAY
9'-0" LONG, 83 SQUARE INCHES,
9 DUPLEX TVSS RECEPTACLES,
COMPLETE WITH BASE COVER, DIVIDER, WIRE CLIPS, DEVICE COVER PLATES
AND ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION

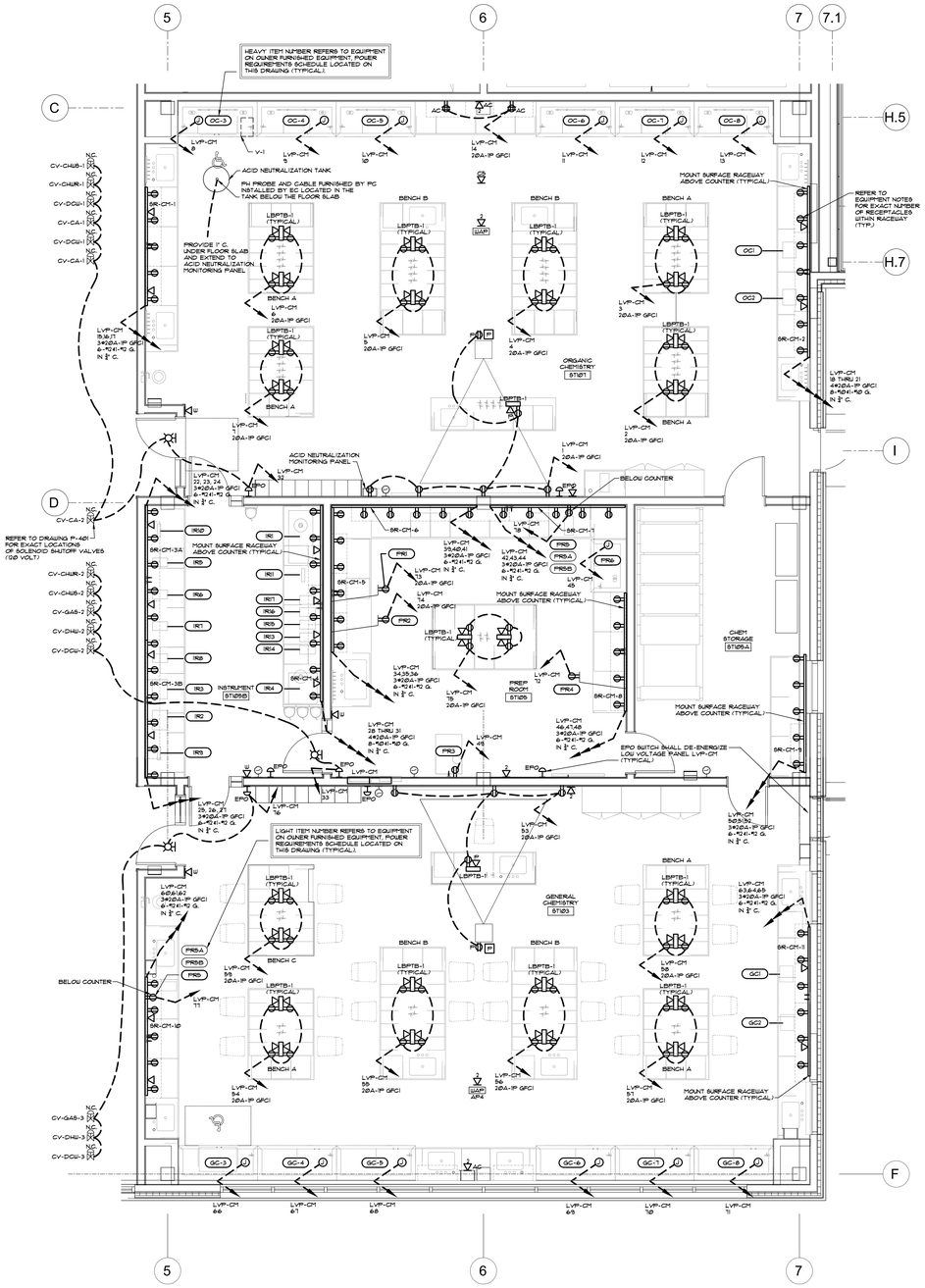
SURFACE RACEWAY, SR-CM-10
WIREMOLD AL5200 SERIES, TWO COMPARTMENT, ALUMINUM RACEWAY
9'-0" LONG, 83 SQUARE INCHES,
12 DUPLEX TVSS RECEPTACLES,
COMPLETE WITH BASE COVER, DIVIDER, WIRE CLIPS, DEVICE COVER PLATES
AND ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION

SURFACE RACEWAY, SR-CM-11
WIREMOLD AL5200 SERIES, TWO COMPARTMENT, ALUMINUM RACEWAY
11'-0" LONG, 83 SQUARE INCHES,
12 DUPLEX TVSS RECEPTACLES,
COMPLETE WITH BASE COVER, DIVIDER, WIRE CLIPS, DEVICE COVER PLATES
AND ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION

OWNER FURNISHED EQUIPMENT, POWER REQUIREMENTS SCHEDULE

ROOM	NO.	EQUIPMENT	MANUFCTURER	MODEL NUMBER	HP OR A	PHASE	VOLTAGE	PANEL	CIRCUIT BREAKER	WIRING	DATA	REFERENCE NOTES
PREP ROOM	PR-1	DISHWASHER			12 A	1	120	LVP-CM	20A-1P GFCI	2-#12 #12 G. IN ¾" C.	N	③
	PR-2	DISHWASHER			12 A	1	120	LVP-CM	20A-1P GFCI	2-#12 #12 G. IN ¾" C.	N	③
	PR-3	ICE MACHINE			9 A	1	120	LVP-CM	20A-1P	2-#12 #12 G. IN ¾" C.	N	③
	PR-4	EXPLOSION PROOF REFRIGERATOR			6.8 A	1	120	LVP-CM	20A-1P	2-#12 #12 G. IN ¾" C.	N	③
	PR-5	PURIFICATION UNIT			2 A	1	120	LVP-CM	15A-1P GFCI	2-#12 #12 G. IN ¾" C.	N	③
	PR-5	PURIFICATION UNIT			2 A	1	120	LVP-CM	15A-1P GFCI	2-#12 #12 G. IN ¾" C.	N	③
	PR-5A	25L TANK										NO ELECTRIC
	PR-5A	25L TANK										NO ELECTRIC
	PR-5B	E-POD										NO ELECTRIC
	PR-5B	E-POD										NO ELECTRIC
	PR-5B	E-POD										NO ELECTRIC
	PR-6	FUME HOOD			6.8 A	1	120	LVP-CM	20A-1P	2-#12 #12 G. IN ¾" C.	N	②
GENERAL CHEMISTRY	GC-1	OVEN			12 A	1	120	LVP-CM	---	---	N	POWERED FROM SR-CM-11 ①
	GC-2	OVEN			12 A	1	120	LVP-CM	---	---	N	POWERED FROM SR-CM-11 ①
	GC-3	FUME HOOD			6.8 A	1	120	LVP-CM	20A-1P	2-#12 #12 G. IN ¾" C.	N	②
	GC-4	FUME HOOD			6.8 A	1	120	LVP-CM	20A-1P	2-#12 #12 G. IN ¾" C.	N	②
	GC-5	FUME HOOD			6.8 A	1	120	LVP-CM	20A-1P	2-#12 #12 G. IN ¾" C.	N	②
	GC-6	FUME HOOD			6.8 A	1	120	LVP-CM	20A-1P	2-#12 #12 G. IN ¾" C.	N	②
	GC-7	FUME HOOD			6.8 A	1	120	LVP-CM	20A-1P	2-#12 #12 G. IN ¾" C.	N	②
	GC-8	FUME HOOD			6.8 A	1	120	LVP-CM	20A-1P	2-#12 #12 G. IN ¾" C.	N	②
ORGANIC CHEMISTRY	OC-1	OVEN			12 A	1	120	LVP-CM	---	---	N	POWERED FROM SR-CM-2 ①
	OC-2	OVEN			12 A	1	120	LVP-CM	---	---	N	POWERED FROM SR-CM-2 ①
	OC-3	FUME HOOD			6.8 A	1	120	LVP-CM	20A-1P	2-#12 #12 G. IN ¾" C.	N	②
	OC-4	FUME HOOD			6.8 A	1	120	LVP-CM	20A-1P	2-#12 #12 G. IN ¾" C.	N	②
	OC-5	FUME HOOD			6.8 A	1	120	LVP-CM	20A-1P	2-#12 #12 G. IN ¾" C.	N	②
	OC-6	FUME HOOD			6.8 A	1	120	LVP-CM	20A-1P	2-#12 #12 G. IN ¾" C.	N	②
	OC-7	FUME HOOD			6.8 A	1	120	LVP-CM	20A-1P	2-#12 #12 G. IN ¾" C.	N	②
	OC-8	FUME HOOD			6.8 A	1	120	LVP-CM	20A-1P	2-#12 #12 G. IN ¾" C.	N	②
INSTRUMENT ROOM	IR-1	GCMS			375 W	1	120	LVP-CM	---	---	N	POWERED FROM SR-CM-4 ①
	IR-2	FTIR			135W	1	120	LVP-CM	---	---	N	POWERED FROM SR-CM-3B ①
	IR-3	FTIR			135 W	1	120	LVP-CM	---	---	N	POWERED FROM SR-CM-3B ①
	IR-4	AA SPECTROMETER			825 W	1	120	LVP-CM	---	---	N	POWERED FROM SR-CM-4 ①
	IR-5	MELTING POINT DEVICE			75W	1	120	LVP-CM	---	---	N	POWERED FROM SR-CM-3A ①
	IR-6	MELTING POINT DEVICE			75W	1	120	LVP-CM	---	---	N	POWERED FROM SR-CM-3A ①
	IR-7	MELTING POINT DEVICE			75W	1	120	LVP-CM	---	---	N	POWERED FROM SR-CM-3A ①
	IR-8	MELTING POINT DEVICE			75W	1	120	LVP-CM	---	---	N	POWERED FROM SR-CM-3B ①
	IR-9	COMPUTER			3A	1	120	LVP-CM	---	---	Y	POWERED FROM SR-CM-3B ①
	IR-10	COMPUTER			3A	1	120	LVP-CM	---	---	Y	POWERED FROM SR-CM-3A ①
	IR-11	PRINTER			225W	1	120	LVP-CM	---	---	Y	POWERED FROM SR-CM-4 ①
	IR-12	ANALYTICAL BALANCE			130 W	1	120	LVP-CM	---	---	N	①
	IR-13	ANALYTICAL BALANCE			130 W	1	120	LVP-CM	---	---	N	POWERED FROM SR-CM-4 ①
	IR-14	ANALYTICAL BALANCE			130 W	1	120	LVP-CM	---	---	N	POWERED FROM SR-CM-4 ①
	IR-15	ANALYTICAL BALANCE			130 W	1	120	LVP-CM	---	---	N	POWERED FROM SR-CM-4 ①
	IR-16	ANALYTICAL BALANCE			130 W	1	120	LVP-CM	---	---	N	POWERED FROM SR-CM-4 ①
	IR-17	ANALYTICAL BALANCE			130 W	1	120	LVP-CM	---	---	N	POWERED FROM SR-CM-4 ①
	IR-18	ANALYTICAL BALANCE			130 W	1	120	LVP-CM	---	---	N	①

REFERENCE NOTES
① UNIT WITH CORD AND PLUG, WHICH IS POWERED FROM ADJACENT SURFACE RACEWAY.
② WIRE INTEGRAL LIGHT SWITCH, LIGHT FIXTURE(S) AND RECEPTACLES COMPLETE PER MANUFACTURER'S DIRECTIONS.
③ EQUIPMENT HAS CORD AND PLUG AND REQUIRES A NEMA 5-20R DUPLEX RECEPTACLE (HUBBELL CATALOG NUMBERS HBL5352).



ENLARGED PLAN - CHEMISTRY & LAB SUPPORT

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

ONEIDA COUNTY NEW YORK 1798

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SEAL:

LICENSED PROFESSIONAL ENGINEER — WILLIAM H. TOWNE — NO. 049980 — STATE OF NEW YORK — COA # 100164 EXPIRATION DATE: 09/31/2027

ISSUE/REVISION		
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

KEY PLAN:

PLAN NORTH

PROJECT:
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:
ENLARGED PLAN – CHEMISTRY & LAB SUPPORT

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-501

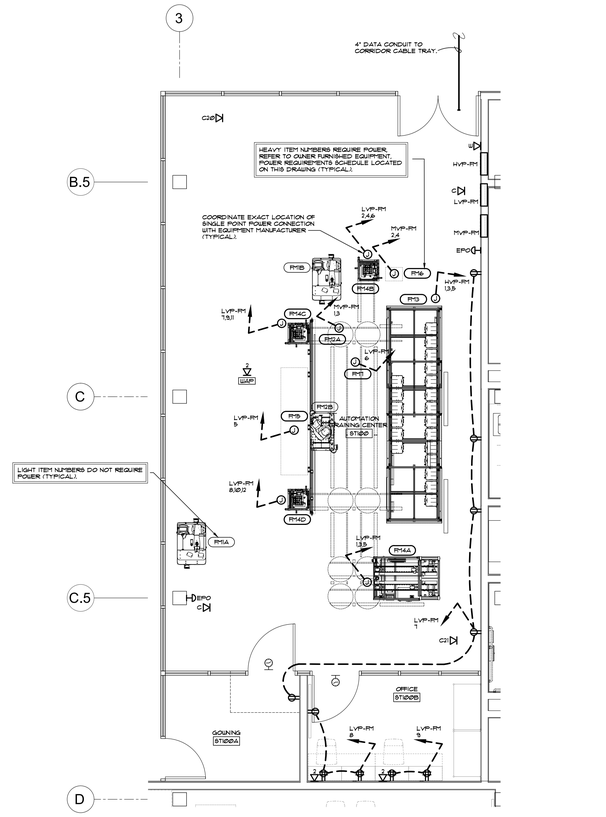
OWNER FURNISHED EQUIPMENT, POWER REQUIREMENTS SCHEDULE

ROOM	NO.	EQUIPMENT	MANUFCTURER	MODEL NUMBER	HP OR A	PHASE	VOLTAGE	PANEL	CIRCUIT BREAKER	WIRING	DATA	REFERENCE NOTES
FABMATICS	FM1A	HERO FAB AGV	FABMATICS	HERO FAB AGV								NO ELECTRIC
	FM1B	HERO FAB AGV	FABMATICS	HERO FAB AGV								NO ELECTRIC
	FM2A	HERO RAIL	FABMATICS	HERO RAIL	2.1 KVA	1	230	MVP-FL	15A-2P	4-#2 #1 G, IN 1" C.	Y	① ②
	FM2B	HERO RAIL 2.0	FABMATICS	HERO RAIL 2.0								NO ELECTRIC
	FM3	FLATSTOCKER (ABOVE)	FABMATICS	FLATSTOCKER (ABOVE)	3.8 KVA	3	480/277	MVP-FL	15A-3P	4-#2 #1 G, IN 1" C.	Y	① ②
	FM4A	LIFT	FABMATICS	I/O STATION	3.014 KVA	3	120/208	LVP-FL	15A-3P	4-#2 #1 G, IN 1" C.	Y	① ②
	FM4B	LIFT	FABMATICS	I/O STATION	3.014 KVA	3	120/208	LVP-FL	15A-3P	4-#2 #1 G, IN 1" C.	Y	① ②
	FM4C	LIFT	FABMATICS	I/O STATION	3.014 KVA	3	120/208	LVP-FL	15A-3P	4-#2 #1 G, IN 1" C.	Y	① ②
	FM4D	LIFT	FABMATICS	I/O STATION	3.014 KVA	3	120/208	LVP-FL	15A-3P	4-#2 #1 G, IN 1" C.	Y	① ②
	FM5	RFID SHELF	FABMATICS	RFID SHELF	61 VA	1	120	LVP-FL	15A-1P	2-#2 #1 G, IN 1" C.	Y	① ②
	FM6	INDUCTIVE CHARGING STATION	FABMATICS	INDUCTIVE CHARGING STATION	3.68 KVA	1	230	MVP-FL	20A-2P	2-#2 #1 G, IN 1" C.	Y	① ②
	FM7	CONVEYOR SYSTEM (ABOVE)	FABMATICS	CONVEYOR SYSTEM (ABOVE)	1.9 KVA	1	120	LVP-FL	20A-1P	2-#2 #1 G, IN 1" C.	Y	① ②

REFERENCE NOTES

① PROVIDE DISCONNECT SWITCH AT UNIT, EXACT LOCATION AND TERMINATION TO BE FIELD DIRECTED BY EQUIPMENT MANUFACTURE WHO IS FURNISHING THE EQUIPMENT. THE CONSTRUCTION MANAGER WILL SET UP A MEETING WITH THE EQUIPMENT MANUFACTURE PRIOR TO EQUIPMENT INSTALLATION.

② THE EQUIPMENT MANUFACTURE SHALL PROVIDE ITS OWN DATA NETWORK, ANY DATA CABLE SERVING THE LISTED EQUIPMENT SHALL BE PROVIDED BY THE EQUIPMENT MANUFACTURE.



ENLARGED PLAN - AUTOMATION TRAINING CENTER

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

PANELBOARD NOTES

PANEL HVP-FM (AUTOMATION TRAINING CENTER)
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
480Y/277V-3Ø-4W
INTERRUPTING CAPACITY:
65,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 100A-3P SHUNT TRIP MAIN BREAKER
ONE ENCLOSURES, 42 POLES
(1) 30A-3P SPARE
(1) 20A-3P SPARE
(1) 20A-3P ACTIVE
(1) 20A-1P ACTIVE
(3) 20A-1P SPARE
(1) 15A-3P ACTIVE
(1) 15A-3P SPARE
(3) 15A-1P SPARE
(21) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL LVP-FM (AUTOMATION TRAINING CENTER)
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
120/208V-3Ø-4W
INTERRUPTING CAPACITY:
22,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 125A-3P SHUNT TRIP MAIN BREAKER
ONE ENCLOSURE, 42 POLES
(2) 20A-3P ACTIVE
(2) 20A-1P GFCI ACTIVE
(2) 20A-1P GFCI SPARE
(2) 20A-1P GFCI SPARE
(4) 15A-3P ACTIVE
(1) 15A-1P ACTIVE
(3) 15A-1P SPARE
(2) 15A-1P GFCI SPARE
(14) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL HVP-FM (AUTOMATION TRAINING CENTER)
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
120/240V-1Ø-3W
INTERRUPTING CAPACITY:
10,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 50A-2P SHUNT TRIP MAIN BREAKER
ONE ENCLOSURES, 24 POLES
(1) 30A-2P ACTIVE
(1) 20A-2P ACTIVE
(4) 20A-1P SPARE
(1) 15A-2P SPARE
(1) 15A-2P ACTIVE
(3) 15A-1P SPARE
(13) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

ONEIDA COUNTY NEW YORK 1798

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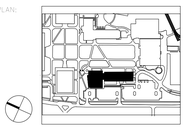
SEAL:

LICENSED PROFESSIONAL ENGINEER
WILLIAM H. TOWNE
NO. 045890
UNIVERSITY OF THE STATE OF NEW YORK
COA # 101084 EXPIRATION DATE 08/31/2027

ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:



PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

ENLARGED PLAN – AUTOMATION TRAINING CENTER

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-502

EQUIPMENT NOTES

SURFACE RACEWAY, SR-FL-1
WIREMOLD ALS200 SERIES, TWO COMPARTMENT, ALUMINUM RACEWAY
10'-6" LONG, 83 SQUARE INCHES.
9 DUPLEX TVSS RECEPTACLES.
6 DATA JACKS AND 6 CAT 6 DATA CABLES TO DATA RACK AS NOTED
COMPLETE WITH BASE, COVER, DIVIDER, WIRE CLIPS, DEVICE COVER PLATES AND ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION

SURFACE RACEWAY, FL-2
WIREMOLD ALS240 SERIES, TWO COMPARTMENT, ALUMINUM RACEWAY
10'-6" LONG, 83 SQUARE INCHES.
9 DUPLEX TVSS RECEPTACLES.
6 DATA JACKS WITH 6 CAT 6 DATA CABLES TO DATA RACK AS NOTED
COMPLETE WITH BASE, COVER, DIVIDER, WIRE CLIPS, DEVICE COVER PLATES AND ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION

PANELBOARD NOTES

PANEL MVP-FL (FAB LAB)
EATON, POWER LINE 3X, RECESS MOUNT
CHARACTERISTICS:
480Y/277V-3Ø-4W
INTERRUPTING CAPACITY:
65,000 A RMS SYMMETRICAL
MAIN BREAKER:
100A MAIN LUGS, 3-3P MAIN BREAKER
ONE ENCLOSURES, 42 POLES
(1) 2ØA-3P SPARE
(6) 2ØA-3P SPARE
(6) 15A-1P SPARE
(30) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

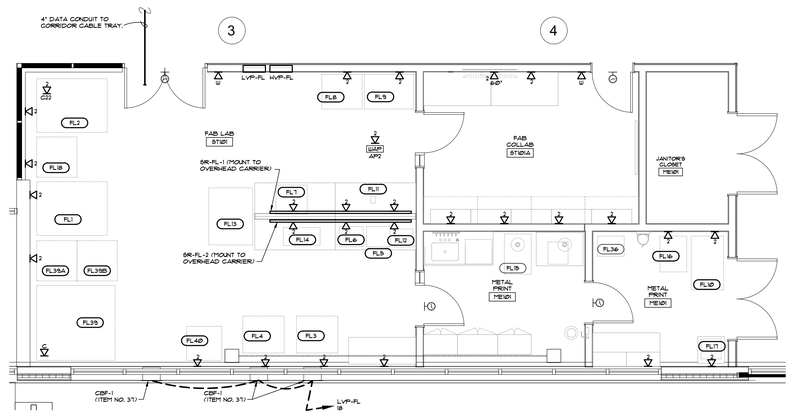
PANEL LVP-FL (FAB LAB)
EATON, POWER LINE 3X, RECESS MOUNT
CHARACTERISTICS:
120/208Y-3Ø-4W
INTERRUPTING CAPACITY:
22,000 A RMS SYMMETRICAL
MAIN BREAKER:
100A MAIN LUGS, 3-3P MAINT TRIP MAIN BREAKER
ONE ENCLOSURES, 84 POLES (60" TALL MAXIMUM)
(2) 2ØA-1P ACTIVE
(5) 2ØA-1P SPARE
(6) 2ØA-1P GFCI ACTIVE
(6) 2ØA-1P GFCI SPARE
(4) 15A-1P ACTIVE
(1) 15A-1P ACTIVE
(3) 15A-1P SPARE
(15) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

OWNER FURNISHED EQUIPMENT, POWER REQUIREMENTS

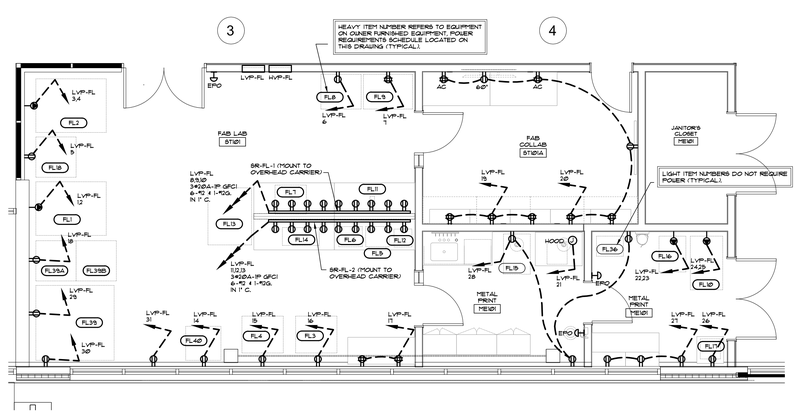
ROOM	NO.	EQUIPMENT	MANUFCTURER	MODEL NUMBER	HP OR A	PHASE	VOLTAGE	PANEL	CIRCUIT BREAKER	WIRING	DATA	REFERENCE NOTES
FAB LAB	FL1	HD MINI CNC ROUTER	TECHNO CNC SYSTEMS		2.5 KW	1	208	LVP-FL	15A-2P	2-#12(1)+#12 G. IN 3/4" C.	Y	(1)
	FL2	HD MINI CNC ROUTER	TECHNO CNC SYSTEMS		2.5 KW	1	208	LVP-FL	15A-2P	2-#12(1)+#12 G. IN 3/4" C.	Y	(1)
	FL3	HELIX LASER	EPILOG	24X18 (40W)	8 A	1	120	LVP-FL	20A-1P	2-#12(1)+#12 G. IN 3/4" C.	Y	(2)
	FL4	HELIX LASER	EPILOG	24X18 (40W)	8 A	1	120	LVP-FL	20A-1P	2-#12(1)+#12 G. IN 3/4" C.	Y	(2)
	FL5	3D PRINTER	MAKERBOT	REPLICATOR	100 W	1	120	LVP-FL	---	---	Y	POWERED FROM SR-FL-2 (3)
	FL6	3D PRINTER	MAKERBOT	REPLICATOR	100 W	1	120	LVP-FL	---	---	Y	POWERED FROM SR-FL-2 (3)
	FL7	3D PRINTER	STRATASYS	UPRINT SE PLUS	12.7 A	1	120	LVP-FL	15A-1P	2-#12(1)+#12 G. IN 3/4" C.	Y	POWERED FROM SR-FL-2 (3)
	FL8	3D PRINTER	STRATASYS	F370	12 A	1	120	LVP-FL	20A-1P	2-#12(1)+#12 G. IN 3/4" C.	Y	(2)
	FL9	3D PRINTER	3D SYSTEMS	PROJET 2500 PLUS 3D PRINTER	12 A	1	120	LVP-FL	20A-1P	2-#12(1)+#12 G. IN 3/4" C.	Y	(2)
	FL10	METAL PRINTER	GE ADDITIVE	CONCEPT LASER MLAB CUSING	1500 W	1	230	LVP-FL	20A-1P	2-#12(1)+#12 G. IN 3/4" C.	Y	
	FL11	SCANNER	ARTEC	SPACE SPIDER	24 W	1	12	LVP-FL	---	---	Y	POWERED FROM SR-FL-1 (3)
	FL12	3D PRINTER	FORMLABS	3-SLA	2.5 A	1	120	LVP-FL	---	---	Y	POWERED FROM SR-FL-2
	FL13	PRINTER	HP DESIGNJET	T520	35 W	1	120	LVP-FL	---	---	Y	POWERED FROM SR-FL-1 (3)
	FL14	PRINTER	MARKFORGED	MARK II ONYX NYLON	3 A	1	120	LVP-FL	---	---	Y	POWERED FROM SR-FL-2 (3)
	FL15	ROLLER BATH										NO ELECTRICAL
	FL16	VACUUM	RIVIAC INDUSTRIES	NAT-11 HCLUL	11 A	1	230	LVP-FL	15A-2P GFCI	2-#12(1)+#12 G. IN 3/4" C.	N	(1)
	FL17	VIBRATORY SIEVE SHAKER	RETSCH	AS 200 BASIC	4.3Ø U	1	120	LVP-FL	15A-1P	2-#12(1)+#12 G. IN 3/4" C.	N	(2)
	FL18	DUST COLLECTOR	GRIZZLY	SHOP FOX W1685	16 A	1	120	LVP-FL	20A-1P	2-#12(1)+#12 G. IN 3/4" C.	N	(2)
	FL19	SPARE NUMBER										
	FL20	SPARE NUMBER										
	FL21	SPARE NUMBER										
	FL22	SPARE NUMBER										
	FL23	SPARE NUMBER										
	FL24	SPARE NUMBER										
	FL25	SPARE NUMBER										
	FL26	SPARE NUMBER										
	FL27	SPARE NUMBER										
	FL28	SPARE NUMBER										
	FL29	SPARE NUMBER										
	FL30	SPARE NUMBER										
	FL31	SPARE NUMBER										
	FL32	SPARE NUMBER										
	FL33	SPARE NUMBER										
	FL34	SPARE NUMBER										
	FL35	SPARE NUMBER										
	FL36	FIRE CABINET										NO ELECTRIC
	FL37	SPARE NUMBER										
	FL38	SPARE NUMBER										
	FL39	BOSS LASER	BOSS LASER	PC ACCU-CUT 55 2x2	3Ø KW	3	208	LVP-FL	15A-3P	3-#12(1)+#12 G. IN 3/4" C.	Y	
	FL39A	NITROGEN GEN										
	FL39B	OXYGEN GEN										
	FL40	BOSS LASER	BOSS LASER	LASER MARKING MACHINE	2 KVA	1	120	LVP-FL	20A-1P	2-#12(1)+#12 G. IN 3/4" C.	Y	(2)

REFERENCE NOTES

(1) UNIT SUPPLIED WITH CORD AND PLUG. PROVIDE 15 AMP, 208 VOLT NEMA L6-15R RECEPTACLE TO MATCH EXISTING CORD AND PLUG CONFIGURATION.
(2) UNIT PROVIDED WITH CORD AND PLUG. PROVIDE NEMA 5-20R DUPLEX RECEPTACLE.
(3) UNIT PROVIDED WITH CORD AND PLUG.



ENLARGED PLAN - FAB LAB (MISC.)
SCALE: 1/4" = 1'-0"



ENLARGED PLAN - FAB LAB (POWER)
SCALE: 1/4" = 1'-0"

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SEAL:
LICENSED PROFESSIONAL ENGINEER — WILLIAM H. TOWNE — NO. 045890 — UNIVERSITY OF THE STATE OF NEW YORK — COA # 101384 — EXPIRATION DATE 2/28/2027

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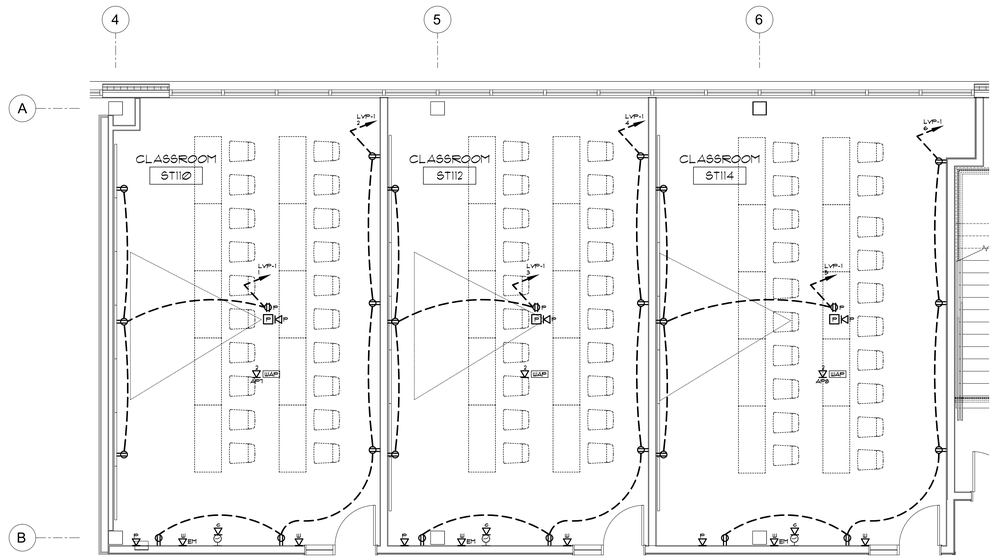
KEY PLAN:
PLAN NORTH

PROJECT:
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:
ENLARGED PLAN – FAB LAB

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-503



ENLARGED PLAN - CLASSROOMS - HEAD (FIRST FLOOR)

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

ONEIDA COUNTY NEW YORK 1798

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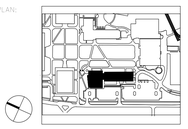
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KEY PLAN:



PLAN NORTH

PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

ENLARGED PLAN – CLASSROOMS – HEAD (FIRST FLOOR)

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-504

PANELBOARD NOTES

PANEL MVP-HV (HVAC LAB)
EATON, POWER LINE 3X, SURFACE MOUNT
CHARACTERISTICS:
480Y/277V-3Ø-4W
INTERRUPTING CAPACITY:
35,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 100A-3P SHUNT TRIP MAIN BREAKER
ONE ENCLOSURES, 42 POLES
(1) 20A-1P ACTIVE
(3) 20A-1P SPARE
(3) 20A-1P GFCI SPARE
(3) 15A-1P GFCI SPARE
(3) 15A-1P SPARE
(29) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

BUSWAY, BSW-HV-1 (HVAC LAB)
EATON, POW-R-WAY III, LOW VOLTAGE BUSWAY
CHARACTERISTICS:
120/208V-3Ø-4W WITH 100% NEUTRAL AND
INTEGRAL HOUSING GROUND
ARRANGEMENT:
225-AMP, COPPER, LENGTH AS SHOWN ON DRAWING
COMPLETE WITH FUSIBLE SWITCHES, END CABLE TAP BOX,
FORWARD-REARWARD CORNER JOINTS, FORWARD-REARWARD TEES,
HANGERS, ACCESSORIES, ETC. FOR A COMPLETE INSTALLATION

FUSIBLE SWITCH, FS-11
EATON CATALOG NUMBER PF3R323RGNH
CHARACTERISTICS:
30 AMP, 120/208V-3Ø-4W WITH 100% NEUTRAL
CLASS R FUSES AS NOTED IN OWNER FURNISHED EQUIPMENT, POWER REQUIREMENTS SCHEDULE
TYPICAL FOR FS-H1, THRU FS-H13

FUSIBLE SWITCH, FS-45
EATON CATALOG NUMBER PF3R323RGNH
CHARACTERISTICS:
100 AMP, 120/208V-3Ø-4W WITH 100% NEUTRAL
30 AMP CLASS R FUSES

PANEL LVP-HV (HVAC LAB)
EATON, POWER LINE 3X, SURFACE MOUNT
CHARACTERISTICS:
120/208V-3Ø-4W
INTERRUPTING CAPACITY:
22,000 A RMS SYMMETRICAL
ARRANGEMENT:
400A MAINS, 300A-3P SHUNT TRIP MAIN BREAKER
TWO ENCLOSURES, 42 POLES EACH
(1) 300A-3P ACTIVE
(4) 30A-3P ACTIVE
(3) 30A-3P GFCI ACTIVE
(3) 20A-3P SPARE
(6) 20A-1P SPARE
(16) 20A-1P GFCI ACTIVE
(4) 20A-1P GFCI SPARE
(3) 15A-1P SPARE
(3) 15A-1P GFCI SPARE
(25) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

ELECTRIC CORD REEL, ECR-1
HUBBELL CATALOG NO. HBL9523GF20M1
12AWG 3 CONDUCTOR 25 FOOT LONG SJO CORD
20 AMPS, 250 VOLTS, CEILING MOUNTED, WHITE
UL LISTED, INDUSTRIAL POWER CORD REEL
GFCI MODULE, TWO 20 AMP DUPLEX RECEPTACLES
(TYPICAL)

ELECTRIC CORD REEL, ECR-2
HUBBELL CATALOG NO. HBL9523GF20M1
12AWG 3 CONDUCTOR 25 FOOT LONG SJO CORD
30 AMPS, 250 VOLTS, CEILING MOUNTED, WHITE
UL LISTED, INDUSTRIAL POWER CORD REEL
30 AMP RECEPTACLE
(TYPICAL)

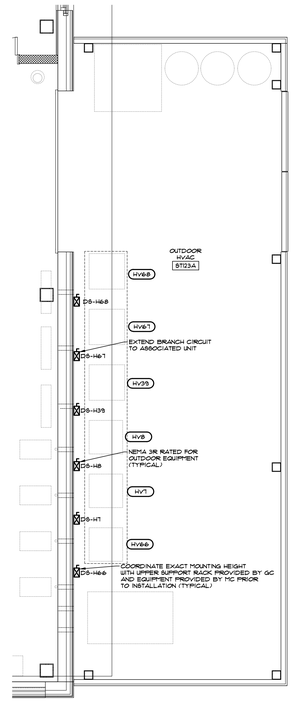
PROVIDE EIGHT 15 AMP, EIGHT 20A, AND EIGHT 30 AMP AND THREE 70 AMP
CLASS R SPARE FUSES IN A WALL MOUNTED FUSE CABINET
(LITTELFUSE CAT. NO. LSPC/ OR EQUAL

OWNER FURNISHED EQUIPMENT, POWER REQUIREMENTS SCHEDULE

ROOM	NO.	EQUIPMENT	MANUFACTURER	MODEL NUMBER	HP OR A	PHASE	VOLTAGE	PANEL	CIRCUIT BREAKER	WIRING	DATA	REFERENCE NOTES
HVAC LAB	HV1	CONDENSING UNIT	AIRTEMP	V8H43BF4M28X24K	17.5 A	1	208	B6U-HV-1	30A FUSES	2-#24 1-#10 G. IN 3/4" C.	N	②
	HV2	CONDENSING UNIT	AIRTEMP	V8H43BF4M28X24K	17.5 A	1	208	B6U-HV-1	30A FUSES	2-#24 1-#10 G. IN 3/4" C.	N	②
	HV3	CONDENSING UNIT	AIRTEMP	V8H43BF4M28X24K	17.5 A	1	208	B6U-HV-1	30A FUSES	2-#24 1-#10 G. IN 3/4" C.	N	②
	HV4	CONDENSING UNIT	AIRTEMP	V8H43BF4M28X24K	17.5 A	1	208	B6U-HV-1	30A FUSES	2-#24 1-#10 G. IN 3/4" C.	N	②
	HV5	CONDENSING UNIT	AIRTEMP	V8H43BF4M28X24K	17.5 A	1	208	B6U-HV-1	30A FUSES	2-#24 1-#10 G. IN 3/4" C.	N	②
	HV6	CONDENSING UNIT	AIRTEMP	V8H43BF4M28X24K	17.5 A	1	208	B6U-HV-1	30A FUSES	2-#24 1-#10 G. IN 3/4" C.	N	②
	HV7	CONDENSING UNIT	AIRTEMP	V8H43BF4M28X24K	17.5 A	1	208	B6U-HV-1	30A FUSES	2-#24 1-#10 G. IN 3/4" C.	N	②
	HV8	CONDENSING UNIT	AIRTEMP	V8H43BF4M28X24K	17.5 A	1	208	B6U-HV-1	30A FUSES	2-#24 1-#10 G. IN 3/4" C.	N	②
	HV9	WALK-IN FREEZER										REFER TO NO. 72 & 73
	HV10	WALK-IN FREEZER										REFER TO NO. 70 & 71
	HV11	ACETYLENE/OXYGEN CYLINDER										NO ELECTRIC
	HV12	ACETYLENE/OXYGEN CYLINDER										NO ELECTRIC
	HV13	ACETYLENE/OXYGEN CYLINDER										NO ELECTRIC
	HV14	ACETYLENE/OXYGEN CYLINDER										NO ELECTRIC
	HV15	STEP-IN COOLER	NORLICK		15 A	1	120	LVP-HL	20A-1P GFCI	2-#241-#12 G. IN 3/4" C.	N	①
	HV16	STEP-IN COOLER	NORLICK		15 A	1	120	LVP-HL	20A-1P GFCI	2-#241-#12 G. IN 3/4" C.	N	①
	HV17	STEP-IN COOLER	NORLICK		15 A	1	120	LVP-HL	20A-1P GFCI	2-#241-#12 G. IN 3/4" C.	N	①
	HV18	STEP-IN COOLER	NORLICK		15 A	1	120	LVP-HL	20A-1P GFCI	2-#241-#12 G. IN 3/4" C.	N	①
	HV19	STEP-IN COOLER	NORLICK		15 A	1	120	LVP-HL	20A-1P GFCI	2-#241-#12 G. IN 3/4" C.	N	①
	HV20	STEP-IN COOLER	NORLICK		15 A	1	120	LVP-HL	20A-1P GFCI	2-#241-#12 G. IN 3/4" C.	N	①
	HV21	STEP-IN COOLER	NORLICK		15 A	1	120	LVP-HL	20A-1P GFCI	2-#241-#12 G. IN 3/4" C.	N	①
	HV22	STEP-IN COOLER	NORLICK		15 A	1	120	LVP-HL	20A-1P GFCI	2-#241-#12 G. IN 3/4" C.	N	①
	HV23	STEP-IN COOLER	NORLICK		15 A	1	120	LVP-HL	20A-1P GFCI	2-#241-#12 G. IN 3/4" C.	N	①
	HV24	STEP-IN COOLER	NORLICK		15 A	1	120	LVP-HL	20A-1P GFCI	2-#241-#12 G. IN 3/4" C.	N	①
	HV25	STEP-IN COOLER	NORLICK		15 A	1	120	LVP-HL	20A-1P GFCI	2-#241-#12 G. IN 3/4" C.	N	①
	HV26	SPARE NUMBER										NO ELECTRIC
	HV27	FLAMMABLE STORAGE										NO ELECTRIC
	HV28	DIESEL POWER GENERATOR	AURORA	AG165008DE								NO ELECTRIC
	HV29	REFRIGERANT RECOVERY SYSTEM	ROBINAIR	11500B	9.6 A	1	120	---	---	2-#241-#12 G. IN 3/4" C.	N	POWERED FROM ECR-1 ⑥
	HV30	REFRIGERANT RECOVERY SYSTEM	ROBINAIR	11600A	11.5 A	1	120	---	---	2-#241-#12 G. IN 3/4" C.	N	POWERED FROM ECR-1 ⑥
	HV31	SPARE NUMBER										NO ELECTRIC
	HV32	SPARE NUMBER										NO ELECTRIC
	HV33	NATURAL GAS FURNACE	AIR TEMP	VG1TC-066D-E24BP	6.2 A	1	120	B6U-HV-1	20A FUSES	2-#241-#12 G. IN 3/4" C.	N	⑤
	HV34	NATURAL GAS FURNACE	AIR TEMP	VG1TC-066D-E24BP	6.2 A	1	120	B6U-HV-1	20A FUSES	2-#241-#12 G. IN 3/4" C.	N	⑤
	HV35	NATURAL GAS FURNACE	AIR TEMP	VG1TC-066D-E24BP	6.2 A	1	120	B6U-HV-1	20A FUSES	2-#241-#12 G. IN 3/4" C.	N	⑤
	HV36	NATURAL GAS FURNACE	AIR TEMP	VG1TC-066D-E24BP	6.2 A	1	120	B6U-HV-1	20A FUSES	2-#241-#12 G. IN 3/4" C.	N	⑤
	HV37	OIL FURNACE	AIR TEMP	RLF-DBP	11.2 A	1	120	B6U-HV-1	20A FUSES	2-#241-#12 G. IN 3/4" C.	N	⑤
	HV38	OIL FURNACE	AIR TEMP	RLF-DBP	11.2 A	1	120	B6U-HV-1	20A FUSES	2-#241-#12 G. IN 3/4" C.	N	⑤
	HV39	CONDENSING UNIT			17.5 A	1	208	B6U-HV-1	20A FUSES	2-#241-#12 G. IN 3/4" C.	N	②
	HV40	MINI SPLIT HEAT PUMP INDOOR UNIT	AIR TEMP	GMH12/23.5LUA4DH	1 A	1	120	B6U-HV-1	15A FUSES	2-#241-#12 G. IN 3/4" C.	N	①
	HV41	MINI SPLIT HEAT PUMP INDOOR UNIT	AIR TEMP	GMH12/23.5LUA4DH	1 A	1	120	B6U-HV-1	15A FUSES	2-#241-#12 G. IN 3/4" C.	N	⑤
	HV42	MINI SPLIT HEAT PUMP INDOOR UNIT	AIR TEMP	GMH12/23.5LUA4DH	1 A	1	120	B6U-HV-1	15A FUSES	2-#241-#12 G. IN 3/4" C.	N	⑤
	HV43	NATURAL GAS FIRED HOT WATER BOILER	UTICA	SVB-6	7.1 A	1	120	LVP-HL	15A-1P GFCI	2-#241-#12 G. IN 3/4" C.	N	⑤
	HV44	OIL FIRED HOT WATER BOILER	UTICA	PH1-425W	12 A	1	120	LVP-HL	20A-1P GFCI	2-#241-#12 G. IN 3/4" C.	N	⑤
	HV45	TANKLESS WATER HEATER-GAS FIRED	BOSCH	TR8000SE199	2.1 A	1	120	LVP-HL	15A-1P GFCI	2-#241-#12 G. IN 3/4" C.	N	⑤
	HV46	INDIRECT WATER HEATER	BRADFORD WHITE	9H75S-6FI								NO ELECTRIC
	HV47	FAN COIL	FIRST CO.	24VH8QB	7.0 A	1	120	B6U-HV-1	20A FUSES	2-#241-#12 G. IN 3/4" C.	N	⑤
	HV48	FAN COIL	FIRST CO.	24VH8QB	7.0 A	1	120	B6U-HV-1	20A FUSES	2-#241-#12 G. IN 3/4" C.	N	⑤
	HV49	HEAT PUMP UNIT	AIRTEMP	VR1Ø4GD6Ø6K12DC	48.1 A	1	208	B6U-HV-1	70A FUSES	2-#4+#8 G. IN 1" C.	N	②
	HV50	NOT USED										NO ELECTRIC
	HV51	NOT USED										NO ELECTRIC
	HV52	PTAC	GOLD POINT		7.81 A	1	208	B6U-HV-1	20A FUSES	2-#241-#12 G. IN 3/4" C.	N	④
	HV53	PTAC	GOLD POINT		7.81 A	1	208	B6U-HV-1	20A FUSES	2-#241-#12 G. IN 3/4" C.	N	④
	HV54	OIL FURNACE	AIRTEMP	RLF-DBP	11.2 A	1	120	B6U-HV-1	15A FUSES	2-#241-#12 G. IN 3/4" C.	N	⑤
	HV55	OIL FURNACE	AIRTEMP	RLF-DBP	11.2 A	1	120	B6U-HV-1	15A FUSES	2-#241-#12 G. IN 3/4" C.	N	⑤
	HV56	SPARE NUMBER										
	HV57	SPARE NUMBER										
	HV58	SPARE NUMBER										
	HV59	SPARE NUMBER										
	HV60	SPARE NUMBER										
	HV61	SPARE NUMBER										
	HV62	SPARE NUMBER										
	HV63	ICE MAKER			12Ø A	1	120	LVP-HL	20A-1P GFCI	2-#241-#12 G. IN 3/4" C.	N	①
	HV64	ICE MAKER			12Ø A	1	120	LVP-HL	20A-1P GFCI	2-#241-#12 G. IN 3/4" C.	N	①
	HV65	ICE MAKER			12Ø A	1	120	LVP-HL	20A-1P GFCI	2-#241-#12 G. IN 3/4" C.	N	①
	HV66	MINI SPLIT HEAT PUMP OUTDOOR UNIT	AIRTEMP	GXH12/23.5LUA4DH	17Ø A	1	120	B6U-HV-1	25A FUSES	2-#241-#8 G. IN 3/4" C.	N	②
	HV67	MINI SPLIT HEAT PUMP OUTDOOR UNIT	AIRTEMP	GXH12/23.5LUA4DH	17Ø A	1	120	B6U-HV-1	25A FUSES	2-#241-#8 G. IN 3/4" C.	N	②
	HV68	MINI SPLIT HEAT PUMP OUTDOOR UNIT	AIRTEMP	GXH12/23.5LUA4DH	17Ø A	1	120	B6U-HV-1	25A FUSES	2-#241-#8 G. IN 3/4" C.	N	②
	HV69	SPARE NUMBER										
	HV70	CONDENSING UNIT			18Ø A	1	208	LVP-HL	30A-2P GFCI	2-#241-#8 G. IN 3/4" C.	N	③
	HV71	CONDENSING UNIT			18Ø A	1	208	LVP-HL	30A-2P GFCI	2-#241-#8 G. IN 3/4" C.	N	③
	HV72	CONDENSING UNIT			18Ø A	1	208	LVP-HL	30A-2P GFCI	2-#241-#8 G. IN 3/4" C.	N	③
	HV73	CONDENSING UNIT			18Ø A	1	208	LVP-HL	30A-2P GFCI	2-#241-#8 G. IN 3/4" C.	N	③

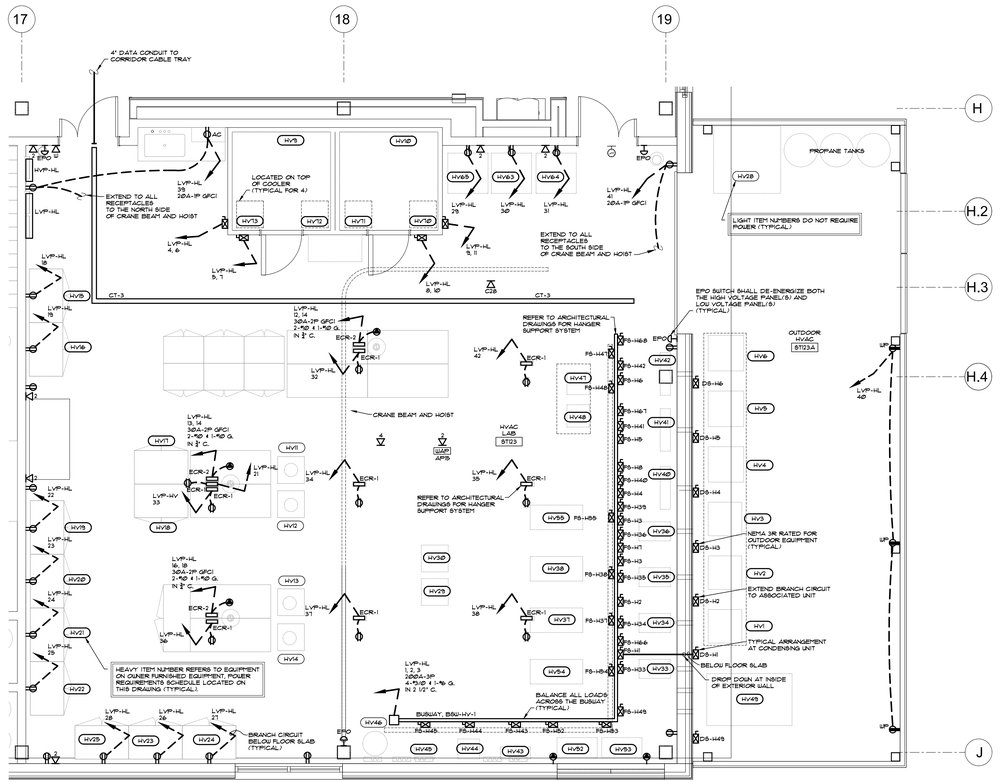
REFERENCE NOTES

① UNIT PROVIDE WITH CORD AND PLUG, PROVIDE NEMA 5-20R DUPLEX RECEPTACLE (HUBBELL CATALOG NUMBER HBL5352).
② PROVIDE HEAVY DUTY NEMA 3R NON-FUSED DISCONNECT SWITCH AT UNIT (FUSES AS NOTED).
③ PROVIDE HEAVY DUTY FUSED DISCONNECT SWITCH AT UNIT (FUSES AS NOTED).
④ UNIT PROVIDE WITH CORD AND PLUG, PROVIDE NEMA 6-20R SINGLE RECEPTACLE.
⑤ UNIT IS HARD WIRED, REFER TO DETAIL ON DRAWING E1Ø6.
⑥ UNIT FURNISHED WITH 20 AMP CORD AND PLUG.



ENLARGED PLAN - HVAC LAB (UPPER LEVEL)

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


17
18
19
H
H.2
H.3
H.4
J
4" DATA CONDUIT TO CORRIDOR CABLE TRAY
EXTEND TO ALL RECEPTACLES TO THE NORTH SIDE OF CRANE BEAM AND HOIST
LOCATED ON TOP OF COOLER (TYPICAL FOR 4)
LVP-HL 39 20A-1P GFCI
LVP-HL 4, 6
LVP-HL 5, 7
LVP-HL 8, 10
LVP-HL 9, 11
LVP-HL 41 20A-1P GFCI
EXTEND TO ALL RECEPTACLES TO THE SOUTH SIDE OF CRANE BEAM AND HOIST
PROPANE TANKS
LIGHT ITEM NUMBERS DO NOT REQUIRE POWER (TYPICAL)
EPO SWITCH SHALL DE-ENERGIZE BOTH THE HIGH VOLTAGE PANEL(S) AND LOW VOLTAGE PANEL(S) (TYPICAL)
OUTDOOR HVAC ST123A
REFER TO ARCHITECTURAL DRAWINGS FOR HANGER SUPPORT SYSTEM
LVP-HL 12, 14 30A-2P GFCI 2-#8 4 1-#10 G. IN 3" C.
ECR-1
LVP-HL 32
LVP-HL 42
LVP-HL 40
CRANE BEAM AND HOIST
HVAC LAB ST123
LVP-HL 13, 14 30A-2P GFCI 2-#8 4 1-#10 G. IN 3" C.
ECR-2
LVP-HV 33
LVP-HL 21
LVP-HL 34
LVP-HL 35
REFER TO ARCHITECTURAL DRAWINGS FOR HANGER SUPPORT SYSTEM
LVP-HL 16, 18 30A-2P GFCI 2-#8 4 1-#10 G. IN 3" C.
LVP-HL 31
LVP-HL 38
LVP-HL 36
LVP-HL 23
LVP-HL 24
LVP-HL 25
HEAVY ITEM NUMBER REFERS TO EQUIPMENT ON OWNER FURNISHED EQUIPMENT, POWER REQUIREMENTS SCHEDULE LOCATED ON THIS DRAWING (TYPICAL)
LVP-HL 1, 2, 3 200A-3P 4-#3/0 & 1-#6 G. IN 2 1/2" C.
BUSWAY, BSW-HV-1
BALANCE ALL LOADS ACROSS THE BUSWAY (TYPICAL)
LVP-HL 28
LVP-HL 26
LVP-HL 27
BRANCH CIRCUIT BELOW FLOOR SLAB (TYPICAL)
NEMA 3R RATED FOR OUTDOOR EQUIPMENT (TYPICAL)
EXTEND BRANCH CIRCUIT TO ASSOCIATED UNIT
TYPICAL ARRANGEMENT AT CONDENSING UNIT
BELOW FLOOR SLAB
DROP DOWN AT INSIDE OF EXTERIOR WALL
P5-H68
P5-H67
P5-H41
P5-H8
P5-H40
P5-H4
P5-H35
P5-H3
P5-H36
P5-H1
P5-H38
P5-H35
P5-H2
P5-H34
P5-H66
P5-H1
P5-H33
P5-H49
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OWNER FURNISHED EQUIPMENT, POWER REQUIREMENTS SCHEDULE

ROOM	NO.	EQUIPMENT	MANUFCTURER	MODEL NUMBER	HP OR A	PHASE	VOLTAGE	PANEL	CIRCUIT BREAKER	WIRING	DATA	REFERENCE NOTES
WELDING LAB	WL1	WELDER	MILLER	MILLER SYNCROWAVE 300	19 A	1	480	B5U-WL-2	20A FUSES	2-#12 #12 G. IN 3/4" C.	NO	① ②
	WL2	WELDER	MILLER	MILLER SYNCROWAVE 300	19 A	1	480	B5U-WL-2	20A FUSES	2-#12 #12 G. IN 3/4" C.	NO	① ②
	WL3	WELDER	MILLER	MILLER SYNCROWAVE 300	19 A	1	480	B5U-WL-2	20A FUSES	2-#12 #12 G. IN 3/4" C.	NO	① ②
	WL4	WELDER	MILLER	MILLER SYNCROWAVE 300	19 A	1	480	B5U-WL-2	20A FUSES	2-#12 #12 G. IN 3/4" C.	NO	① ②
	WL5	WELDER	MILLER	MILLER SYNCROWAVE 300	19 A	1	480	B5U-WL-2	20A FUSES	2-#12 #12 G. IN 3/4" C.	NO	① ②
	WL6	WELDER	MILLER	MILLER SYNCROWAVE 300	19 A	1	480	B5U-WL-2	20A FUSES	2-#12 #12 G. IN 3/4" C.	NO	① ②
	WL7	WELDER	MILLER	MILLER SYNCROWAVE 200	42.12 A	1	208	B5U-WL-3	50A FUSES	2-#6 #6 G. IN 3/4" C.	NO	① ③
	WL8	WELDER	MILLER	MILLER SYNCROWAVE 200	42.12 A	1	208	B5U-WL-3	50A FUSES	2-#6 #6 G. IN 3/4" C.	NO	① ③
	WL9	WELDER	MILLER	MILLER SYNCROWAVE 250DX	44 A	1	480	B5U-WL-1	50A FUSES	2-#6 #6 G. IN 3/4" C.	NO	① ④
	WL10	WELDER	MILLER	MILLER SYNCROWAVE 250DX	44 A	1	480	B5U-WL-1	50A FUSES	2-#6 #6 G. IN 3/4" C.	NO	① ④
	WL11	WELDER	MILLER	MILLER SYNCROWAVE 250DX	44 A	1	480	B5U-WL-1	50A FUSES	2-#6 #6 G. IN 3/4" C.	NO	① ④
	WL12	WELDER	MILLER	MILLER SYNCROWAVE 250DX	44 A	1	480	B5U-WL-1	50A FUSES	2-#6 #6 G. IN 3/4" C.	NO	① ④
	WL13	WELDER	MILLER	MILLER SYNCROWAVE 250DX	44 A	1	480	B5U-WL-1	50A FUSES	2-#6 #6 G. IN 3/4" C.	NO	① ④
	WL14	WELDER	MILLER	MILLER SYNCROWAVE 250DX	44 A	1	480	B5U-WL-1	50A FUSES	2-#6 #6 G. IN 3/4" C.	NO	① ④
	WL15	WELDER	MILLER	MILLER SYNCROWAVE 250DX	44 A	1	480	B5U-WL-1	50A FUSES	2-#6 #6 G. IN 3/4" C.	NO	① ④
	WL16	WELDER	MILLER	MILLER SYNCROWAVE 250DX	44 A	1	480	B5U-WL-1	50A FUSES	2-#6 #6 G. IN 3/4" C.	NO	① ④
	WL17	WELDER	MILLER	MILLER SYNCROWAVE 250DX	44 A	1	480	B5U-WL-1	50A FUSES	2-#6 #6 G. IN 3/4" C.	NO	① ④
	WL18	WELDER	MILLER	MILLER SYNCROWAVE 250DX	44 A	1	480	B5U-WL-1	50A FUSES	2-#6 #6 G. IN 3/4" C.	NO	① ④
	WL19	WELDER	MILLER	MILLER SYNCROWAVE 250DX	44 A	1	480	B5U-WL-1	50A FUSES	2-#6 #6 G. IN 3/4" C.	NO	① ④
	WL20	WELDER	MILLER	MILLER SYNCROWAVE 250DX	44 A	1	480	B5U-WL-1	50A FUSES	2-#6 #6 G. IN 3/4" C.	NO	① ④
	WL21	SPARE NUMBER										
	WL22	SPARE NUMBER										
	WL23	SPARE NUMBER										
	WL24	SPARE NUMBER										
	WL25	SPARE NUMBER										
	WL26	SPARE NUMBER										
	WL27	SPARE NUMBER										
	WL28	SPARE NUMBER										
	WL29	SPARE NUMBER										
	WL30	PLASMA TABLE	ARCLIGHT DYNAMICS		15 A	1	115	B5U-WL-1	20A FUSES	2-#12 #12 G. IN 3/4" C.	YES	① ⑥
	WL31	PLASMA CUTTER	HYPERTHERM	POWERMAX 125	31 A	3	460	B5U-WL-1	50A FUSES	2-#6 #6 G. IN 3/4" C.	NO	① ⑥
	WL32	SPARE NUMBER										
	WL33	SPARE NUMBER										
	WL34	SPARE NUMBER										
	WL35	CRANE HOIST	GORBEL	GLGSLX-F8-4000	3.7 A	3	460	B5U-WL-2	15A FUSES	3-#12 #12 G. IN 3/4" C.	NO	① ⑤
	WL36	SPARE NUMBER										
	WL37	SPARE NUMBER										
	WL38	SPARE NUMBER										
	WL39	SPARE NUMBER										
	WL40	PLASMA CUTTER	HYPERTHERM	POWERMAX X800	6.5 KW	1	208	B5U-WL-4	50A FUSES	2-#6 #6 G. IN 3/4" C.	NO	① ⑥
	WL41	PLASMA CUTTER	HYPERTHERM	POWERMAX 45XP	6.5 KW	1	208	B5U-WL-4	50A FUSES	2-#6 #6 G. IN 3/4" C.	NO	① ⑥
	WL42	FINGERBREAK	BAILEIGH	BA-412								NO ELECTRIC
	WL43	SHEAR	ACCU PRESS	ACCU SHEAR 62508	32 A	3	460	B5U-WL-1	50A FUSES	3-#6 #6 G. IN 3/4" C.	NO	① ⑥
	WL44	MITER HORIZONTAL BAND SAW	HYD-MECH	6-20 SERIES II	12.5 A	3	208	B5U-WL-4	20A FUSES	3-#12 #12 G. IN 3/4" C.	NO	① ⑥
	WL45	METAL ROLLER	PECK STOW & WILCOX	3418-G	1.5 KW	1	120	B5U-WL-4	20A FUSES	2-#12 #12 G. IN 3/4" C.	NO	① ⑤
	WL46	NOT USED										
	WL47	METAL CUTTER	PIRANAH	PS0 IRONWORKER	3 HP	3	460	B5U-WL-1	15A FUSES	3-#12 #12 G. IN 3/4" C.	NO	① ⑤
	WL48	BEND TESTER										NO ELECTRIC
	WL49	FORGE (NEW)										
	WL50	BREAK	PIRANHA	PS0 IRONWORKER	3 HP	3	460	B5U-WL-1	15A FUSES	3-#12 #12 G. IN 3/4" C.	NO	① ⑤
	WL51	GRINDER/CHOP SAW	MILWAUKEE		12 A	1	120	B5U-WL-4	20A FUSES	2-#12 #12 G. IN 3/4" C.	NO	① ⑦
	WL52	SPARE NUMBER										
	WL53	GRINDER/POLISHER	SETCO		1 HP	1	208	B5U-WL-4	15A FUSES	2-#12 #12 G. IN 3/4" C.	NO	① ⑤
	WL54	GRINDER/POLISHER	BALDOR	CATALOG NO. 1821W	1 1/2 HP (2.7A)	3	208	B5U-WL-4	15A FUSES	3-#12 #12 G. IN 3/4" C.	NO	① ⑤
	WL55	ELECTRODE STABILIZING OVEN	DRYROD	MODEL 16C	1 KW	1	120	B5U-WL-4	15A FUSES	2-#12 #12 G. IN 3/4" C.	NO	① ⑦

REFERENCE NOTES

① PROVIDE FUSIBLE SWITCH (FUSES AS NOTED) ON BUSWAY FOR UNIT PROTECTION.

② PROVIDE CORD AND PLUG (LEVITON NEMA L6-20P, 20 AMP, 480 VOLT, 2P, 3W, TWIST LOCK) ON UNIT AND PROVIDE RECEPTACLE (LEVITON 2340, 20 AMP, 480 VOLT, 2P, 3W) AT UNIT.

③ UNIT FURNISHED WITH CORD AND PLUG. PROVIDE RECEPTACLE (LEVITON 5374, NEMA 6-50R STRAIGHT BLADE, 50 AMP, 1 PHASE, 250 VOLT, 2 POLE) AT UNIT.

④ UNIT FURNISHED WITH CORD AND PLUG. PROVIDE TWIST LOCK RECEPTACLE (HUBBELL CS8469, 50 AMP, 1 PHASE, 480 VOLT, 2 POLE, 3 WIRE GROUNDING) WITH HUBBELL HBLT7140 WEATHPROOF COVER AT UNIT.

⑤ UNIT IS HARD WIRED.

⑥ UNIT FURNISHED WITH CORD AND PLUG. PROVIDE FLOOR BOX AND POWER REQUIREMENTS AS NOTED.

⑦ UNIT PROVIDE WITH CORD AND PLUG, PROVIDE NEMA 5-20R DUPLEX RECEPTACLE (HUBBELL CATALOG NUMBER HBL5352).

EQUIPMENT NOTES

PANEL HVP-UL (WELDING LAB)
EATON, POWER LINE 3X, SURFACE MOUNT
CHARACTERISTICS:
480/277V-3Φ-4W
INTERRUPTING CAPACITY:
100,000 AIC SYMMETRICAL
ARRANGEMENT:
400A MAIN, 400A-3P SHUNT TRIP MAIN BREAKER
ONE ENCLOSURE, 42 POLES
(1) 400A-3P ACTIVE
(1) 150A-3P ACTIVE
(1) 20A-3P SPARE
(1) 20A-1P ACTIVE
(4) 20A-1P SPARE
(2) 20A-1P GFCI SPARE
(1) 15A-3P SPARE
(1) 15A-1P SPARE
(3) 20A-1P GFCI SPARE
(18) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

ELECTRIC CORD REEL: ECR-1
HUBBELL, CATALOG NO. HBL135303GP22EM1
12AWG 3 CONDUCTOR 25 FOOT LONG SJO CORD
20 AMPS, 120 VOLTS, CEILING MOUNTED, WHITE
UL LISTED, INDUSTRIAL POWER CORD REEL
GFCI MODULE, TWO 20 AMP DUPLEX RECEPTACLES
COMPLETE WITH ANGLE IRON SUPPORT AS REQUIRED.
(TYPICAL)

BUSWAY, B5U-UL-1 (WELDING LAB)
EATON, POW-R-WAY III, LOW VOLTAGE BUSWAY
CHARACTERISTICS:
480/277V-3Φ-4W WITH 100% NEUTRAL AND
50% HOUSING AND 50% INTERNAL GROUND
ARRANGEMENT:
400AMP, COPPER, LENGTH AS SHOWN ON DRAWING
COMPLETE WITH PLUGGABLE SWITCHES, END CABLE TAP BOX,
FORWARD/REARGUARD CORNER JOINTS, FORWARD/REARGUARD TEES,
HANGERS, ACCESSORIES, ETC. FOR A COMPLETE INSTALLATION

BUSWAY, B5U-UL-2 (WELDING LAB)
EATON, POW-R-WAY III, LOW VOLTAGE BUSWAY
CHARACTERISTICS:
480/277V-3Φ-4W WITH 100% NEUTRAL AND
50% HOUSING AND 50% INTERNAL GROUND
ARRANGEMENT:
225AMP, COPPER, LENGTH AS SHOWN ON DRAWING
COMPLETE WITH PLUGGABLE SWITCHES, END CABLE TAP BOX,
FORWARD/REARGUARD CORNER JOINTS, FORWARD/REARGUARD TEES,
HANGERS, ACCESSORIES, ETC. FOR A COMPLETE INSTALLATION

BUSWAY, B5U-UL-3 (WELDING LAB)
EATON, POW-R-WAY III, LOW VOLTAGE BUSWAY
CHARACTERISTICS:
480/277V-3Φ-4W WITH 100% NEUTRAL AND
50% HOUSING AND 50% INTERNAL GROUND
ARRANGEMENT:
225AMP, COPPER, LENGTH AS SHOWN ON DRAWING
COMPLETE WITH PLUGGABLE SWITCHES, END CABLE TAP BOX,
FORWARD/REARGUARD CORNER JOINTS, FORWARD/REARGUARD TEES,
HANGERS, ACCESSORIES, ETC. FOR A COMPLETE INSTALLATION

BUSWAY, B5U-UL-4 (WELDING LAB)
EATON, POW-R-WAY III, LOW VOLTAGE BUSWAY
CHARACTERISTICS:
480/277V-3Φ-4W WITH 100% NEUTRAL AND
50% HOUSING AND 50% INTERNAL GROUND
ARRANGEMENT:
225AMP, COPPER, LENGTH AS SHOWN ON DRAWING
COMPLETE WITH PLUGGABLE SWITCHES, END CABLE TAP BOX,
FORWARD/REARGUARD CORNER JOINTS, FORWARD/REARGUARD TEES,
HANGERS, ACCESSORIES, ETC. FOR A COMPLETE INSTALLATION

PROVIDE FOUR (2 AMP, FOUR 30A, FOUR 60 AMP, AND TWELVE 100 AMP CLASS R SPARE FUSES IN A WALL MOUNTED FUSE CABINET LITTLEFUSE CAT. NO. LSRC OR EQUAL

PANEL LVP-UL (WELDING LAB)
EATON, POWER LINE 3X, SURFACE MOUNT
CHARACTERISTICS:
120/208V-3Φ-4W
INTERRUPTING CAPACITY:
22,000 AIC SYMMETRICAL
ARRANGEMENT:
400A MAIN, 300A-3P SHUNT TRIP MAIN BREAKER
ONE ENCLOSURE, 48 POLES
(1) 200A-3P ACTIVE
(1) 100A-3P ACTIVE
(5) 20A-1P SPARE
(22) 20A-1P GFCI ACTIVE
(3) 20A-1P GFCI SPARE
(1) 15A-1P ACTIVE
(3) 15A-1P SPARE
(2) 15A-1P GFCI SPARE
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

ELECTRIC CORD REEL: ECR-2
HUBBELL, CATALOG NO. HBL135303GP22EM1
12AWG 3 CONDUCTOR 25 FOOT LONG SJO CORD
240 AMPS, 250 VOLTS, CEILING MOUNTED, WHITE
UL LISTED, INDUSTRIAL POWER CORD REEL
SPECIAL PURPOSE RECEPTACLE AS NOTED IN SCHEDULE
COMPLETE WITH ANGLE IRON SUPPORT AS REQUIRED.
(TYPICAL)

FUSIBLE SWITCH, FS-UL1
EATON CATALOG NUMBER FP3363RGNH
CHARACTERISTICS:
30 AMP, 120/208V-3Φ-4W WITH 100% NEUTRAL
CLASS R FUSES AS NOTED IN SCHEDULE
(TYPICAL FOR FS-UL2 THRU FS-UL6, FS-UL10, FS-UL11, FS-UL14, FS-UL15, FS-44, FS-49, FS-47, FS-UL40, FS-UL41, AND FS-UL53 THRU FS-UL56)

FUSIBLE SWITCH, FS-UL-5
EATON CATALOG NUMBER FP3363RGNH
CHARACTERISTICS:
60 AMP, 120/208V-3Φ-4W WITH 100% NEUTRAL
CLASS R FUSES AS NOTED IN SCHEDULE
(TYPICAL FOR FS-UL7 THRU FS-UL9, FS-UL12, FS-UL13, FS-UL42, FS-UL41 AND FS-UL43)

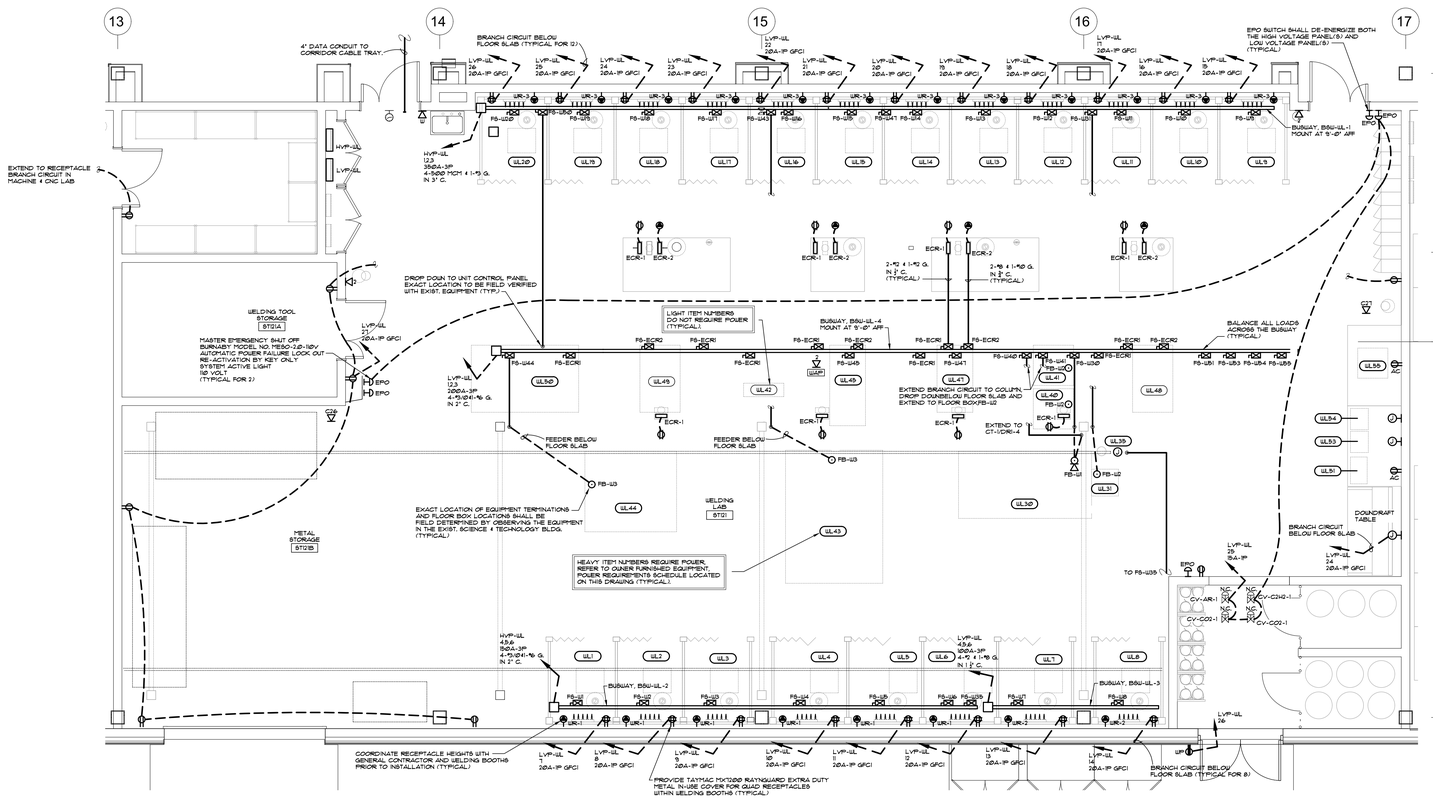
FUSIBLE SWITCH, FS-ECR-1
EATON CATALOG NUMBER FP3363RGNH
CHARACTERISTICS:
30 AMP, 120/208V-3Φ-4W WITH 100% NEUTRAL
30 AMP CLASS R FUSES
(TYPICAL)

FUSIBLE SWITCH, FS-ECR-2
EATON CATALOG NUMBER FP3363RGNH
CHARACTERISTICS:
60 AMP, 120/208V-3Φ-4W WITH 100% NEUTRAL
60 AMP CLASS R FUSES
(TYPICAL)

FLOOR BOX, FB-UL
LEGRAND CATALOG NUMBER RFBA4R3D
CAST IRON HOUSING FOR CONCRETE FLOORS
TOP GUARD PROTECTION
DUPLEX DEVICE COVER PLATE CAT. NO. RFBADP26TR
COMMUNICATIONS PLATE CAT. NO. RFB3AB-A
POWER:
NEMA 5-20R RECEPTACLE
COMMUNICATIONS:
CAT 6 DATA JACK, CAT 6 DATA CABLE
FLANGELESS NICKEL BLANK COVER ASSEMBLY
COMPLETE WITH BLANK PLATES AND ACCESSORIES AS REQUIRED

FLOOR BOX, FB-U2
LEGRAND CATALOG NUMBER RFBA4R3D
CAST IRON HOUSING FOR CONCRETE FLOORS
TOP GUARD PROTECTION
1.86" DIAMETER SINGLE DEVICE PLATE
POWER:
NEMA L6-50R STRAIGHT BLADE, 50 AMP, 1 PHASE,
250 VOLT, 2 POLE RECEPTACLE
FLANGELESS NICKEL BLANK COVER ASSEMBLY
COMPLETE WITH BLANK PLATES AND ACCESSORIES AS REQUIRED
(TYPICAL)

FLOOR BOX, FB-U3
LEGRAND CATALOG NUMBER RFBA4R3D
CAST IRON HOUSING FOR CONCRETE FLOORS
TOP GUARD PROTECTION
POWER:
AS NOTED ON OWNER FURNISHED EQUIPMENT, POWER REQUIREMENTS SCHEDULE
FLANGELESS NICKEL FURNITURE FEED COVER ASSEMBLY
COMPLETE WITH BLANK PLATES AND ACCESSORIES AS REQUIRED
(TYPICAL)



ENLARGED PLAN - WELDING LAB

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

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NO. 045980
UNIVERSITY OF THE STATE OF NEW YORK
COA # 101084 EXPIRATION DATE 08/31/2027

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:

PLAN NORTH

PROJECT:
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:
ENLARGED PLAN - WELDING LAB

PROJECT NO: 23000 (4038) | DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION | SCALE: AS NOTED

E-506

OWNER FURNISHED EQUIPMENT, POWER REQUIREMENTS SCHEDULE

ROOM	NO.	EQUIPMENT		MANUFACTURER	MODEL NUMBER	HP OR A	PHASE	VOLTAGE	PANEL	CIRCUIT BREAKER	WIRING	DATA	REFERENCE NOTES
MACHINE SHOP AND CNC LAB	MA1	LATHE	NEW	SHARP INDUSTRIES	16-40L	8KVA (12.5A)	3	460	BSW-ML-1	20A FUSE	3-#12+#12 G. IN 1" C.	N	1 2
	MA2	LATHE	NEW	SHARP INDUSTRIES	16-40L	8KVA (12.5A)	3	460	BSW-ML-1	20A FUSE	3-#12+#12 G. IN 1" C.	N	1 2
	MA3	LATHE	NEW	SHARP INDUSTRIES	16-40L	8KVA (12.5A)	3	460	BSW-ML-1	20A FUSE	3-#12+#12 G. IN 1" C.	N	1 2
	MA4	LATHE	NEW	SHARP INDUSTRIES	16-40L	8KVA (12.5A)	3	460	BSW-ML-1	20A FUSE	3-#12+#12 G. IN 1" C.	N	1 2
	MA5	LATHE	NEW	SHARP INDUSTRIES	16-40L	8KVA (12.5A)	3	460	BSW-ML-1	20A FUSE	3-#12+#12 G. IN 1" C.	N	1 2
	MA6	LATHE	NEW	SHARP INDUSTRIES	16-40L	8KVA (12.5A)	3	460	BSW-ML-1	20A FUSE	3-#12+#12 G. IN 1" C.	N	1 2
	MA7	LATHE	NEW	SHARP INDUSTRIES	16-40L	8KVA (12.5A)	3	460	BSW-ML-1	20A FUSE	3-#12+#12 G. IN 1" C.	N	1 2
	MA8	LATHE	NEW	SHARP INDUSTRIES	16-40L	8KVA (12.5A)	3	460	BSW-ML-1	20A FUSE	3-#12+#12 G. IN 1" C.	N	1 2
	MA9	MILLING MACHINE	NEW	BRIDGEPORT	SERIES I BP9I	4 KVA	3	460	BSW-ML-3	15A FUSE	3-#12+#12 G. IN 1" C.	N	1 2
	MA10	MILLING MACHINE	NEW	BRIDGEPORT	SERIES I BP9I	4 KVA	3	460	BSW-ML-3	15A FUSE	3-#12+#12 G. IN 1 1/4" C.	N	1 2
	MA11	MILLING MACHINE	NEW	BRIDGEPORT	SERIES I BP9I	4 KVA	3	460	BSW-ML-3	15A FUSE	3-#12+#12 G. IN 1" C.	N	1 2
	MA12	MILLING MACHINE	NEW	BRIDGEPORT	SERIES I BP9I	4 KVA	3	460	BSW-ML-3	15A FUSE	3-#12+#12 G. IN 1" C.	N	1 2
	MA13	MILLING TOOL	EXISTING	BAJO	UP32DM	35 A	3	230	BSW-ML-5	70A FUSE	3-#4+#8 G. IN 1 1/4" C.	N	1 2
	MA14	MILLING TOOL	EXISTING	BAJO	UP32DM5T	37 A	3	230	BSW-ML-5	70A FUSE	3-#4+#8 G. IN 1 1/4" C.	N	1 2
	MA15	CYLINDRICAL GRINDER	NEW	KENT	KUG-2760HNC1	6.3KW	3	230	BSW-ML-5	20A FUSE	3-#12+#12 G. IN 1" C.	N	1 2
	MA16	BAND SAW	NEW	COBEN	84-25DR	2 HP (15KW)	3	460	BSW-ML-4	7A FUSES	3-#12+#12 G. IN 1" C.	N	1 2
	MA17	BAND SAW	NEW	COBEN	84-25DR	2 HP (15KW)	3	460	BSW-ML-3	7A FUSES	3-#12+#12 G. IN 1" C.	N	1 2
	MA18	SURFACE GRINDER	NEW	CLAUSING	CG82A8I8	3HP (2.3KW)	3	460	BSW-ML-4	8A FUSES	3-#12+#12 G. IN 1" C.	N	1 2
	MA19	SURFACE GRINDER	NEW	CLAUSING	CG82A8I8	3HP (2.3KW)	3	460	BSW-ML-4	8A FUSES	3-#12+#12 G. IN 1" C.	N	1 2
	MA20	SURFACE GRINDER	NEW	CLAUSING	CG82A8I8	3HP (2.3KW)	3	460	BSW-ML-4	8A FUSES	3-#12+#12 G. IN 1" C.	N	1 2
	MA21	DRILL PRESS	NEW	CLAUSING	8Z14D	5.5HP	3	460	BSW-ML-3	20A FUSES	3-#12+#12 G. IN 1" C.	N	1 2
	MA22	DRILL PRESS	NEW	CLAUSING	8Z14D	5.5HP	3	460	BSW-ML-3	20A FUSES	3-#12+#12 G. IN 1" C.	N	1 2
	MA23	DRILL PRESS	EXISTING	BURGMASTER		1 1/2 HP (3.8A)	3	208	LVP-ML	20A-3P	3-#12+#12 G. IN 1" C.	N	2
	MA24	VERTICAL MILL	NEW	HAAS	SUPER MINI	15HP	3	460	BSW-ML-2	30A FUSES	3-#10+#10 G. IN 1" C.	Y	1 2
	MA25	VERTICAL MILL	NEW	HAAS	SUPER MINI	15HP	3	460	BSW-ML-2	30A FUSES	3-#10+#10 G. IN 1" C.	Y	1 2
	MA26	LATHE	NEW	HAAS	ST-15Y	20HP (14.9KW)	3	460	BSW-ML-2	40A FUSES	3-#6+#10 G. IN 1" C.	Y	1 2
	MA27	LATHE	NEW	HAAS	ST-15Y	20HP (14.9KW)	3	460	BSW-ML-3	40A FUSES	3-#6+#10 G. IN 1" C.	Y	1 2
	MA28	LATHE	NEW	HAAS	ST-15Y	20HP (14.9KW)	3	460	BSW-ML-3	40A FUSES	3-#6+#10 G. IN 1" C.	Y	1 2
	MA29	CNC VERTICAL CENTER	EXISTING	MAZAK	NEXUS 410A-II	36KVA(83A)	3	208	LVP-ML	80A-3P	3-#1+#6 G. IN 1 1/4" C.	N	2
	MA30	5-AXIS CNC MILL	EXISTING	HURCO	VM1X42I	38KVA	3	230	BSW-ML-5	125A FUSES	3-#4/0+#6 G. IN 2 1/2"C	Y	1 2
	MA31	CNC TURNING CENTER	NEW	HAAS	UMC-400SS	25KW	3	230	BSW-ML-5	100A FUSES	3-#1+#6 G. IN 1 1/4" C.	N	1 2
	MA32	MILL-DRILL TURNING CENTER	EXISTING	DOOSAN INFRACORE	LYNX 220LSY	33.66KVA	3	230	BSW-ML-5	100A FUSES	3-#1+#6 G. IN 1 1/4" C.	Y	1 2
	MA33	ARBOR PRESS	NEW	DAKE	3A								NO ELECTRIC
	MA34	NOT USED	---										
	MA35	BELT GRINDER	NEW	BURR KING	86D-4DD	3HP	3	460	BSW-ML-4	8A FUSES	3-#12+#12 G. IN 1" C.	N	1 2
	MA36	POLISHING LATHE BUFFER	NEW	BURR KING	11D12	3HP	3	460	BSW-ML-4	8A FUSES	3-#12+#12 G. IN 1" C.	N	1 2
	MA37	SURFACE PLATE 3X3											NO ELECTRIC
	MA38	SURFACE PALTE 4X3		STARRETT									NO ELECTRIC
	MA39	NOT USED	---										
	MA40	GRINDER	EXISTING	BALDOR	10D1 WD	1 1/2HP (13A)	3	460	BSW-ML-4	3A FUSES	3-#12+#12 G. IN 1" C.	N	1 2
	MA41	GRINDER	NEW	BALDOR	10D1 WD	1 1/2HP (13A)	3	460	BSW-ML-4	3A FUSES	3-#12+#12 G. IN 1" C.	N	1 2
	MA42	GRINDER	NEW	BALDOR	10D1 WD	1 1/2HP (13A)	3	460	BSW-ML-4	3A FUSES	3-#12+#12 G. IN 1" C.	N	1 2
	MA43	GRINDER	NEW	BALDOR	10D1 WD	1 1/2HP (13A)	3	460	BSW-ML-4	3A FUSES	3-#12+#12 G. IN 1" C.	N	1 2

REFERENCE NOTES

1. PROVIDE FUSIBLE SWITCH WITH FUSES AS NOTED ON BUSSWAY FOR EQUIPMENT OVER CURRENT PROTECTION.
2. EQUIPMENT IS HARD WIRED, REFER TO DETAIL ON DRAWING E1.06.

EQUIPMENT NOTES

PANEL HVP-ML
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
480Y/277V-3Ø-4W
INTERRUPTING CAPACITY:
65,000A @ RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 125A-3P MAIN BREAKER
ONE ENCLOSURES, 42 POLES
(1) 20A-3P ACTIVE
(3) 20A-1P ACTIVE
(6) 15A-1P SPARE
(30) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

ELECTRIC CORD REEL ECR-1
HUBBELL CATALOG NO. HBL9203GP20DPT
12AWG 3 CONDUCTOR 20 FOOT LONG SJO CORD
20 AMPS, 250 VOLTS, CEILING MOUNTED, WHITE
UL LISTED: INDUSTRIAL POWER CORD REEL
GFCI MODULE, TWO 20 AMP DUPLEX RECEPTACLES
(TYPICAL)

BUSWAY, BSW-ML-1 (MACHINE LAB)
EATON, POW-R-WAY II, LOW VOLTAGE BUSWAY
CHARACTERISTICS:
480Y/277V-3Ø-4W WITH 100% NEUTRAL AND
50% HOUSING AND 50% INTERNAL GROUND
ARRANGEMENT:
225AMP, COPPER, LENGTH AS SHOWN ON DRAWING
COMPLETE WITH FUSIBLE SWITCHES, END CABLE TAP BOX,
FORWARD/REARWARD CORNER JOINTS, FORWARD/REARWARD TEES,
HANGERS, ACCESSORIES, ETC. FOR A COMPLETE INSTALLATION

BUSWAY, BSW-ML-2 (MACHINE LAB)
EATON, POW-R-WAY II, LOW VOLTAGE BUSWAY
CHARACTERISTICS:
480Y/277V-3Ø-4W WITH 100% NEUTRAL AND
50% HOUSING AND 50% INTERNAL GROUND
ARRANGEMENT:
225AMP, COPPER, LENGTH AS SHOWN ON DRAWING
COMPLETE WITH FUSIBLE SWITCHES, END CABLE TAP BOX,
FORWARD/REARWARD CORNER JOINTS, FORWARD/REARWARD TEES,
HANGERS, ACCESSORIES, ETC. FOR A COMPLETE INSTALLATION

BUSWAY, BSW-ML-3 (MACHINE LAB)
EATON, POW-R-WAY II, LOW VOLTAGE BUSWAY
CHARACTERISTICS:
480Y/277V-3Ø-4W WITH 100% NEUTRAL AND
50% HOUSING AND 50% INTERNAL GROUND
ARRANGEMENT:
225AMP, COPPER, LENGTH AS SHOWN ON DRAWING
COMPLETE WITH FUSIBLE SWITCHES, END CABLE TAP BOX,
FORWARD/REARWARD CORNER JOINTS, FORWARD/REARWARD TEES,
HANGERS, ACCESSORIES, ETC. FOR A COMPLETE INSTALLATION

BUSWAY, BSW-ML-4 (MACHINE LAB)
EATON, POW-R-WAY II, LOW VOLTAGE BUSWAY
CHARACTERISTICS:
480Y/277V-3Ø-4W WITH 100% NEUTRAL AND
50% HOUSING AND 50% INTERNAL GROUND
ARRANGEMENT:
225AMP, COPPER, LENGTH AS SHOWN ON DRAWING
COMPLETE WITH FUSIBLE SWITCHES, END CABLE TAP BOX,
FORWARD/REARWARD CORNER JOINTS, FORWARD/REARWARD TEES,
HANGERS, ACCESSORIES, ETC. FOR A COMPLETE INSTALLATION

PANEL LVP-ML (MACHINE & CNC LAB)
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
120/208V-3Ø-4W
INTERRUPTING CAPACITY:
22,000A @ RMS SYMMETRICAL
ARRANGEMENT:
800A MAINS, 600A-3P MAIN BREAKER
THREE ENCLOSURES, 54 POLES EACH
(1) 100A-3P ACTIVE
(1) 60A-3P ACTIVE
(1) 60A-3P ACTIVE
(1) 30A-3P ACTIVE
(2) 30A-3P ACTIVE
(22) 20A-3P ACTIVE
(2) 20A-3P SPARE
(18) 20A-1P ACTIVE
(7) 15A-1P SPARE
(4) 15A-1P SPARE
(14) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

BUSWAY, BSW-ML-5 (MACHINE LAB)
EATON, POW-R-WAY II, LOW VOLTAGE BUSWAY
CHARACTERISTICS:
208Y/120V-3Ø-4W WITH 100% NEUTRAL AND
50% HOUSING AND 50% INTERNAL GROUND
ARRANGEMENT:
400AMP, COPPER, LENGTH AS SHOWN ON DRAWING
COMPLETE WITH FUSIBLE SWITCHES, END CABLE TAP BOX,
FORWARD/REARWARD CORNER JOINTS, FORWARD/REARWARD TEES,
HANGERS, ACCESSORIES, ETC. FOR A COMPLETE INSTALLATION

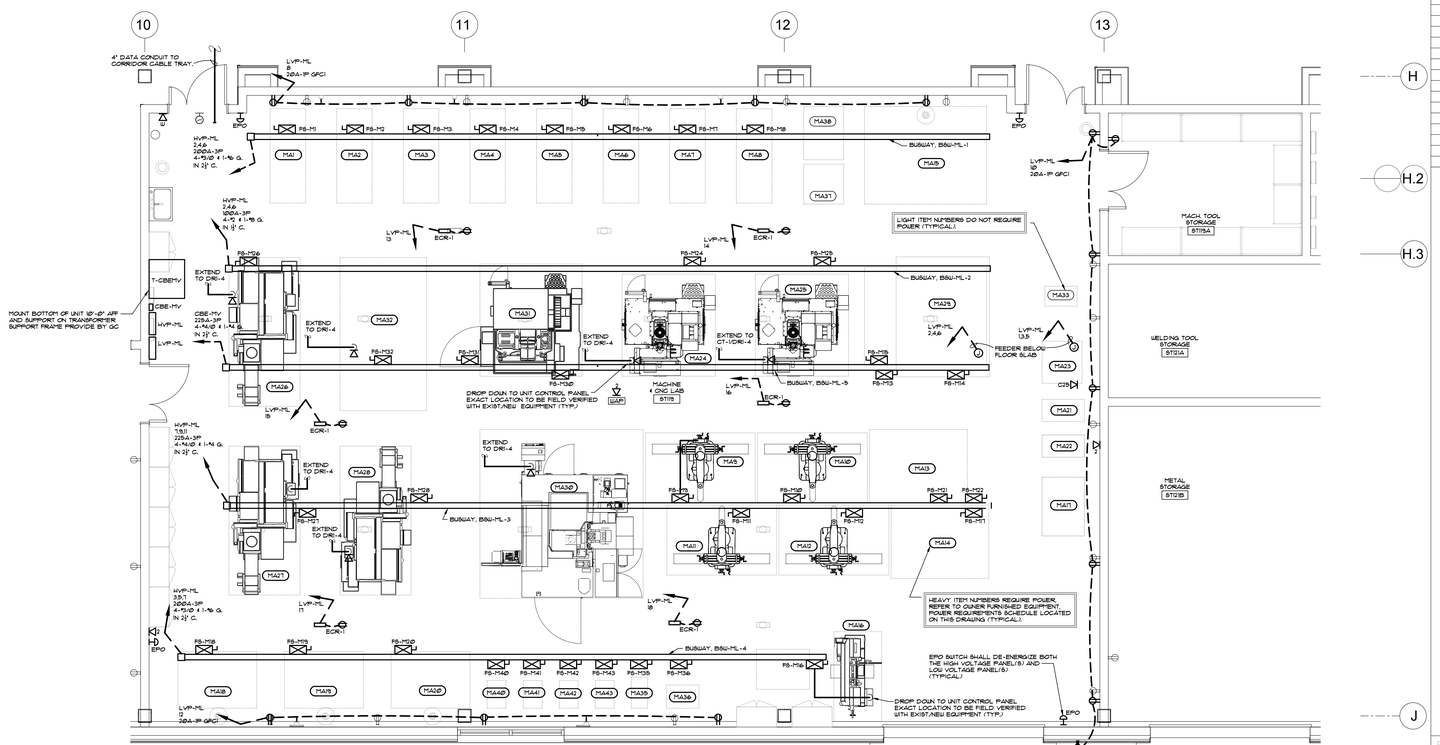
CIRCUIT BREAKER ENCLOSURE, CBE-MV
EATON CATALOG NUMBER BRCENA08
CHARACTERISTICS:
3Ø,8-SP, 120/240V-3Ø-4W
INTERRUPTING CAPACITY:
22,000A @ RMS SYMMETRICAL

FUSIBLE SWITCH, FS-MA1
EATON CATALOG NUMBER 93F36-RGSNH
CHARACTERISTICS:
30 AMP, 480Y/277V-3Ø-4W WITH 100% NEUTRAL
CLASS R FUSES AS NOTED IN SCHEDULE
(TYPICAL FOR FS-M2 THRU FS-M5, FS-15 THRU FS-22, FS-M39 THRU FS-M36, FS-40 THRU FS-43)

FUSIBLE SWITCH, FS-MA24
EATON CATALOG NUMBER 93F36-RNSNH
CHARACTERISTICS:
60 AMP, 480Y/277V-3Ø-4W WITH 100% NEUTRAL
CLASS R FUSES AS NOTED IN SCHEDULE
(TYPICAL FOR FS-M25 THRU FS-M28)

FUSIBLE SWITCH, FS-MA-13
EATON CATALOG NUMBER 93F36-RSSNH
CHARACTERISTICS:
100 AMP, 480Y/277V-3Ø-4W WITH 100% NEUTRAL
CLASS R FUSES AS NOTED IN SCHEDULE
(TYPICAL FOR FS-M14, FS-M31 AND FS-M32)

FUSIBLE SWITCH, FS-MA-30
EATON CATALOG NUMBER 93F36-RRSNH
CHARACTERISTICS:
200 AMP, 480Y/277V-3Ø-4W WITH 100% NEUTRAL
CLASS R FUSES AS NOTED IN SCHEDULE



ENLARGED PLAN - MACHINE & CNC LAB

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

ONEIDA COUNTY NEW YORK 1798

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315 733 9000

SITE | CIVIL ENGINEER:
Appel Osborne Landscape Architecture
102 West Division Street, Suite 100
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315 476 1022

SEAL:

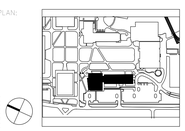
LICENSED PROFESSIONAL ENGINEER
WILLIAM H. TOWNE
No. 045860
STATE OF NEW YORK
COA # 027004 EXPIRATION DATE: 09/31/2025

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:



PROJECT:
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:
ENLARGED PLAN – MACHINE & CNC LAB

PROJECT NO: 23000 (4038) | DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION | SCALE: AS NOTED

E-507

OWNER FURNISHED EQUIPMENT, POWER REQUIREMENTS SCHEDULE

ROOM	NO.	EQUIPMENT	MANUFCTURER	MODEL NUMBER	HP OR A	PHASE	VOLTAGE	PANEL	CIRCUIT BREAKER	WIRING	DATA	REFERENCE NOTES
CIVIL LAB	CL0	ASPHALT TESTER	BARNSTEAD/THERMOLYNE	F85838	28A, 5.75 KW	1	208	LVP-CL	30A-2P GFCI	2-#12 #10 G, IN ¾" C.	N	②
	CL1	FORCED DRAFT OVEN	BLUE M	L24	1.55 KW	1	115	LVP-CL	20A-1P GFCI	2-#12 #12 G, IN ½" C.	N	③
	CL2	COMPRESSION TESTER	ELE INTERNATIONAL	36-0660/02	16A	1	110	LVP-CL	20A-1P GFCI	2-#12 #12 G, IN ½" C.	N	③
	CL3	150 LB LARGE PLATFORM SCALE	FAIRBANKS MORRIS									NO ELECTRIC
	CL4	PRESSURE AIR METER	FORNEY	LA-0316								NO ELECTRIC
	CL5	MOTORIZED SIFTER	GILSON SCREEN CO.		1/3 HP	1	115	LVP-CL	---	---	N	POWERED FROM 6R-CPL-1 ①
	CL6	MIXER	HOBART	A200	1/2 HP	1	115	LVP-CL	---	---	N	POWERED FROM 6R-CPL-1 ①
	CL7	VACUUM PUMP	HYVAC	91105-001	6.6A	1	115	LVP-CL	---	---	N	POWERED FROM 6R-CPL-1 ①
	CL8	OVEN	LINDBERG BLUE	M0145DA-1	17.4A, 2.1 KW	1	120	LVP-CL	20A-1P GFCI	2-#12 #12 G, IN ½" C.	N	③
	CL9	OVEN	LINDBERG BLUE	M0145DA-1	2.1 KW	1	120	LVP-CL	20A-1P GFCI	2-#12 #12 G, IN ½" C.	N	③
	CL10	16,000G SCALE	METTLER TOLEDO	SB16001	5 W	1	120	LVP-CL	---	---	N	POWERED FROM 6R-CPL-1 ①
	CL11	SCALE INDICATOR	OHAUS CORP	CD-31	1 A	1	120	LVP-CL	---	---	N	POWERED FROM 6R-CPL-1 ①
	CL12	2000G SCALE	OHAUS CORP	SCOUT PRO	1 A	1	120	LVP-CL	---	---	N	POWERED FROM 6R-CPL-1 ①
	CL13	5000G SCALE	OHAUS CORP	SCOUT PRO	1 A	1	120	LVP-CL	---	---	N	POWERED FROM 6R-CPL-1 ①
	CL14	GYRATORY COMPACTOR	PINE INST. CO.	AFG1A	12 A	1	115	LVP-CL	20A-1P GFCI	2-#12 #12 G, IN ½" C.	N	③
	CL15	SPARE NUMBER										
	CL16	WATER BATH	PINE INST. CO.	AFPU160	1200 W	1	120	LVP-CL	20A-1P GFCI	2-#12 #12 G, IN ½" C.	N	③
	CL17	SIEVE SHAKER	SOIL TEST INC.	CT2500G3QR	5.2 A	1	120	LVP-CL	20A-1P GFCI	2-#12 #12 G, IN ½" C.	N	③
	CL18	SIFTING SIEVE SHAKER	SOIL TEST INC.	CL-305	5.2 A	1	120	LVP-CL	20A-1P GFCI	2-#12 #12 G, IN ½" C.	N	③
	CL19	VENTURI METER APPARATUS	TECEQUIPMENT	H5								NO ELECTRIC
	CL20	GRAVIMETRIC BENCH	TECEQUIPMENT	H1	5 A	1	110	LVP-CL	20A-1P GFCI	2-#12 #12 G, IN ½" C.	N	③

REFERENCE NOTES

① EQUIPMENT WITH CORD AND PLUG, WHICH IS POWERED FROM ADJACENT SURFACE RACEWAY.
② PROVIDE HEAVY DUTY DISCONNECT SWITCH AT UNIT.
③ EQUIPMENT HAS CORD AND PLUG AND REQUIRES A NEMA 5-20R DUPLEX RECEPTACLE (HUBBELL CATALOG NO. HBL5352).

EQUIPMENT NOTES

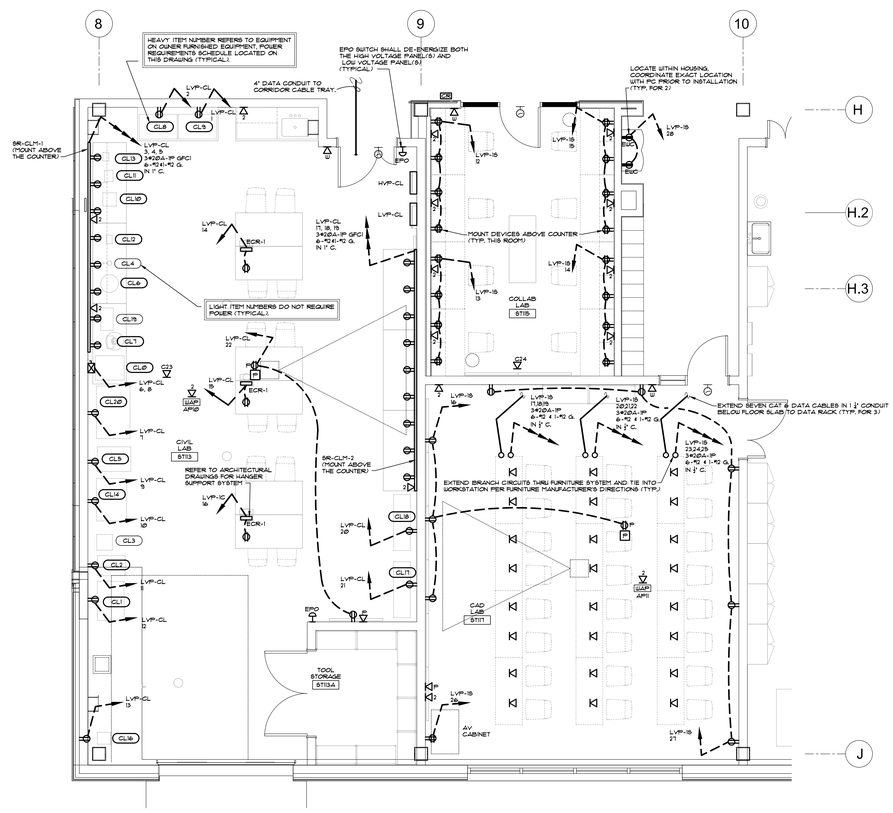
PANEL: LVP-CL
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
480/277V-3Ø-4W
INTERRUPTING CAPACITY:
30,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 100A-3P BASNT TRIP MAIN BREAKER
ONE ENCLOSURE, 42 POLES
(1) 20A-3P ACTIVE
(1) 20A-3P ACTIVE
(4) 20A-1P SPARE
(3) 15A-1P SPARE
(28) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL: LVP-CL
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
120/208V-3Ø-4W
INTERRUPTING CAPACITY:
22,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 125A-3P BASNT TRIP MAIN BREAKER
ONE ENCLOSURE, 42 POLES
(1) 30A-3P GFCI ACTIVE
(1) 20A-3P ACTIVE
(3) 15A-1P SPARE
(16) 20A-1P GFCI ACTIVE
(3) 20A-1P GFCI SPARE
(3) 15A-1P SPARE
(3) 15A-1P RCI SPARE
(8) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

SURFACE RACEWAY, 6R-CPL-1
WIREMOLD ALN2100 SERIES, TWO COMPARTMENT, ALUMINUM RACEWAY
15'-0" LONG, 83 SQUARE INCHES,
9 DUPLEX RECEPTACLES, 4 CAT 6 DATA JACKS
COMPLETE WITH BASE, COVER, DIVIDER, WIRE CLIPS, DEVICE COVER PLATES
AND ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION

SURFACE RACEWAY, 6R-CPL-2
WIREMOLD ALN2100 SERIES, TWO COMPARTMENT, ALUMINUM RACEWAY
18'-0" LONG, 83 SQUARE INCHES,
9 DUPLEX RECEPTACLES, 4 CAT 6 DATA JACKS,
COMPLETE WITH BASE, COVER, DIVIDER, WIRE CLIPS, DEVICE COVER PLATES
AND ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION

ELECTRIC CORD REEL, ECR-1
HUBBELL CATALOG NO. HBL2365F22EP1
12/3G 3 CONDUCTOR 25 FOOT LONG SJO CORD
20 AMPS, 250 VOLTS, CEILING MOUNTED, UNITE
UL LISTED, INDUSTRIAL POWER CORD REEL
GFCI MODULE, TWO 20 AMP DUPLEX RECEPTACLES
(TYPICAL)



ENLARGED PLAN - CIVIL LAB, CAD LAB & COLLAB LAB

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

ONEIDA COUNTY NEW YORK 1798

MVCC
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Mitchell Giurgola

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315 733 9000

SITE | CIVIL ENGINEER:
Appel Osborne Landscape Architecture
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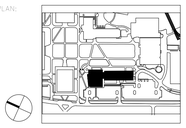
SEAL:

LICENSED PROFESSIONAL ENGINEER — WILLIAM H. TOWNE — NO. 045800 — UNIVERSITY OF THE STATE OF NEW YORK — COA # 100184 — EXPIRATION DATE: 01/31/2027

ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:



PLAN NORTH

PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

ENLARGED PLAN – CIVIL LAB, CAD LAB & COLLAB LAB

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-508

PANELBOARD NOTES

PANEL MVP-IC (INDUSTRIAL CONTROLS)
EATON, POWER LINE 3X, SURFACE MOUNT
CHARACTERISTICS:
480Y/277V-3Ø-4W
INTERRUPTING CAPACITY:
65,000 A RMS SYMMETRICAL
ARRANGEMENT:
225A MAINS, 150A-3P SHUNT TRIP MAIN BREAKER
ONE ENCLOSURE, 42 POLES
(1) 125A-3P ACTIVE
(1) 20A-3P ACTIVE
(2) 20A-3P ACTIVE
(3) 15A-1P SPARE
(25) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL LVP-IC (INDUSTRIAL CONTROLS)
EATON, POWER LINE 3X, SURFACE MOUNT
CHARACTERISTICS:
120/208V-3Ø-4W
INTERRUPTING CAPACITY:
22,000 A RMS SYMMETRICAL
ARRANGEMENT:
225A MAINS, 225A-3P SHUNT TRIP MAIN BREAKER
ONE ENCLOSURE, 48 POLES
(8) 20A-2P ACTIVE
(9) 20A-1P ACTIVE
(5) 20A-1P SPARE
(4) 20A-1P GFCI ACTIVE
(3) 20A-1P GFCI SPARE
(1) 20A-2P GFCI SPARE
(4) 15A-1P SPARE
(5) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL MVP-IC (INDUSTRIAL CONTROLS)
EATON, POWER LINE 3X, SURFACE MOUNT
CHARACTERISTICS:
480Y/277V-3Ø-4W
INTERRUPTING CAPACITY:
100,000 A RMS SYMMETRICAL
ARRANGEMENT:
225A MAINS, 225A-3P SHUNT TRIP MAIN BREAKER
ONE ENCLOSURE, 42 POLES
(1) 175A-3P ACTIVE
(1) 20A-2P GFCI ACTIVE
(1) 20A-1P GFCI ACTIVE
(1) 20A-2P GFCI SPARE
(3) 20A-2P SPARE
(3) 15A-1P SPARE
(1) 15A-1P GFCI SPARE
(18) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

DISCONNECT SWITCH, DS-C1 (WORKSTATION 1)
EATON, DH223NGKB, SURFACE MOUNT
HEAVY DUTY, NEMA 1, FUSIBLE, 30 AMP, 240 VOLT
WITH NEUTRAL
(TYPICAL FOR WORKSTATION 2 THRU 8)

PANEL LVP-C1 (WORKSTATION 1)
EATON, POWER LINE 3X, SURFACE MOUNT
CHARACTERISTICS:
120/208V-1Ø-3W
INTERRUPTING CAPACITY:
22,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, MAIN LUG ONLY
ONE ENCLOSURE, 6 POLES
(6) 20A-1P GFCI SPARE
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)
(TYPICAL FOR WORKSTATION 2 THRU 8)

ELECTRIC CORD REEL ECR-1
HUBBELL CAT 4 LOG NO. HBL05W36F02BM
(1) 36" CABLE OF 36 FOOT LONG SJO CORD
20 AMPS, 250 VOLTS, CEILING MOUNTED, WHITE
UL LISTED INDUSTRIAL POWER CORD REEL
GFCI MODULE, TWO 20 AMP DUPLEX RECEPTACLES
(TYPICAL)

BUSWAY, BSW-IC-1 (INDUSTRIAL CONTROLS)
EATON, POW-R-WAY III, LOW VOLTAGE BUSWAY
CHARACTERISTICS:
120/240V-3P-4W
WITH 100% NEUTRAL AND INTEGRAL HOUSING GROUND
ARRANGEMENT:
225 AMP, COPPER, LENGTH AS SHOWN ON DRAWING
COMPLETE WITH PLUGGABLE SWITCHES, END CABLE TAP BOX,
FORWARD/REARWARD CORNER JOINTS, FORWARD/REARWARD TEES,
ELBOWS, OFFSETS, TEES, TAP BOXES,
ETC. FOR A COMPLETE INSTALLATION

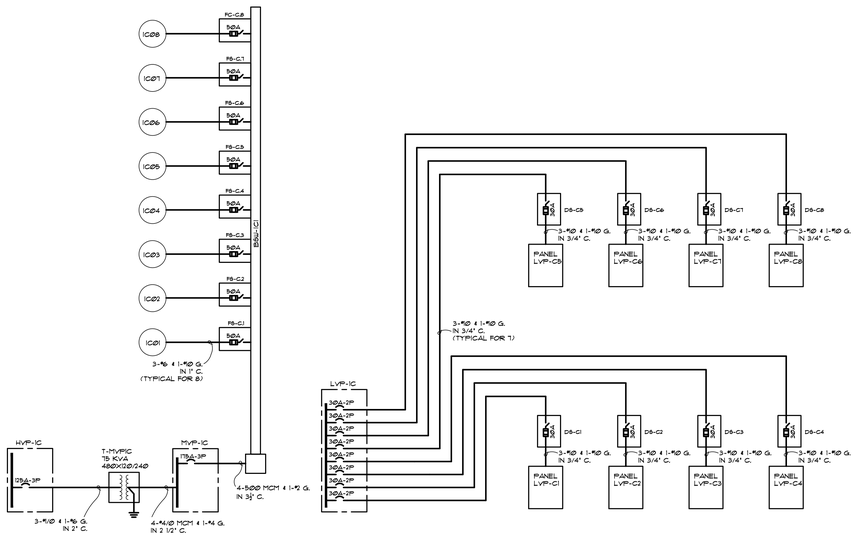
FUSIBLE SWITCH, FS-C1
EATON CATALOG NUMBER PF3222RGNH
CHARACTERISTICS:
60 AMP, 120/208V-3P-4W WITH 100% NEUTRAL
600 AMP CL450 R FUSES
TYPICAL FOR FS-C2 THRU FS-C8

OWNER FURNISHED EQUIPMENT, POWER REQUIREMENTS SCHEDULE

ROOM	NO.	EQUIPMENT	MANUFACTURER	MODEL NUMBER	HP OR A	PHASE	VOLTAGE	PANEL	CIRCUIT BREAKER	WIRING	DATA	REFERENCE NOTES
INDUSTRIAL CONTROLS	IC01	STATION			50 A	3	120/240	MVP-IC	50 AMP FUSES	4-#6+1-#10 G. IN 1" C.	Y	1
	IC02	STATION			50 A	3	120/240	MVP-IC	50 AMP FUSES	4-#6+1-#10 G. IN 1" C.	Y	1
	IC03	STATION			50 A	3	120/240	MVP-IC	50 AMP FUSES	4-#6+1-#10 G. IN 1" C.	Y	1
	IC04	STATION			50 A	3	120/240	MVP-IC	50 AMP FUSES	4-#6+1-#10 G. IN 1" C.	Y	1
	IC05	STATION			50 A	3	120/240	MVP-IC	50 AMP FUSES	4-#6+1-#10 G. IN 1" C.	Y	1
	IC06	STATION			50 A	3	120/240	MVP-IC	50 AMP FUSES	4-#6+1-#10 G. IN 1" C.	Y	1
	IC07	STATION			50 A	3	120/240	MVP-IC	50 AMP FUSES	4-#6+1-#10 G. IN 1" C.	Y	1
	IC08	STATION			50 A	3	120/240	MVP-IC	50 AMP FUSES	4-#6+1-#10 G. IN 1" C.	Y	1
	IC09	ELECTRIC OVEN			15 A	1	120	MVP-IC	20A-1P GFCI	2-#12+1-#12 G. IN ¾" C.	N	2
	IC010	FLUID MECHATRONICS	TURBINE TECHNOLOGIES	FLUID MECHATRONIX	22 KW	1	220	MVP-IC	20A-2P GFCI	2-#12+1-#12 G. IN ¾" C.	Y	3

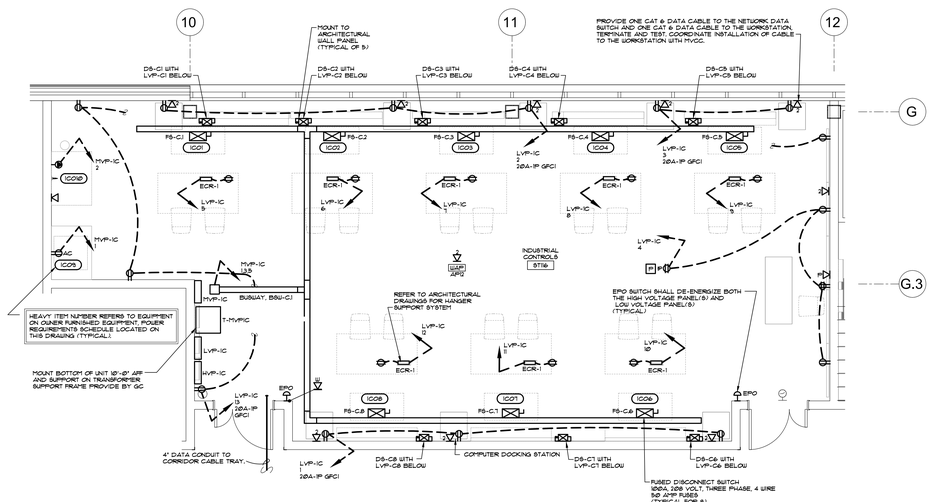
REFERENCE NOTES

1. FEEDER IS FED FROM BUSWAY, TERMINATE FEEDER AT INTEGRAL DISCONNECT SWITCH AT WORKSTATION.
2. EQUIPMENT HAS CORD AND PLUG AND REQUIRES A NEMA 5-20R RECEPTACLE (HUBBELL CATALOG NUMBER HBL5352) WITH COVER PLATE
3. EQUIPMENT HAS CORD AND PLUG AND REQUIRES A NEMA 6-20R HUBBELL CATALOG NUMBER HBL5461 STRAIGHT BLADE RECEPTACLE (20A, 250V, 2 POLE, 3 WIRE) WITH COVER PLATE.



ONE LINE POWER DIAGRAM

SCALE: NONE



ENLARGED PLAN - INDUSTRIAL CONTROLS

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

ONEIDA COUNTY NEW YORK 1798

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SITE | CIVIL ENGINEER:
Appel Osborne Landscape Architecture
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315 476 1022

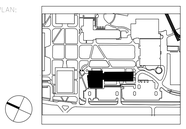
SEAL:

LICENSED PROFESSIONAL ENGINEER — WILLIAM H. TOWNE — NO. 045890 — UNIVERSITY OF THE STATE OF NEW YORK — COA # 100184 — EXPIRATION DATE: 08/31/2027

ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:



PROJECT:

SCIENCE & TECHNOLOGY BUILDING

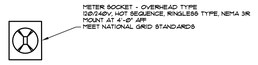
DRAWING TITLE:

ENLARGED PLAN – INDUSTRIAL CONTROLS

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-509





OVERHEAD SERVICE ENTRANCE STATION SES-1 WALL ELEVATION

SCALE: NONE (TYPICAL FOR MS-2 THRU 6)

PANELBOARD NOTES

PANEL HVP-EC (ELECTRIC CODES)
EATON, POWER LINE 3x, SURFACE MOUNT
CHARACTERISTICS:
480/277V-3Ø-4W
INTERRUPTING CAPACITY:
65,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 125A-3P SAINT TRIP MAIN BREAKER
ONE ENCLOSURE, 42 POLES
(1) 20A-1P ACTIVE
(6) 30A-1P SPARE
(6) 30A-1P SPARE
(29) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL LVP-EC-1 (ELECTRIC CODES-ROOM 1)
EATON, TYPE PRL1A, SURFACE MOUNT
CHARACTERISTICS:
120/208V-3Ø-4W
INTERRUPTING CAPACITY:
22,000 A RMS SYMMETRICAL
ARRANGEMENT:
100A MAINS, 60A-2P MAIN BREAKER
ONE ENCLOSURE, 24 POLES
(1) 20A-3P SPARE
(2) 20A-2P SPARE
(5) 20A-1P SPARE
(4) 20A-1P ARC FAULT SPARE
(3) 15A-1P GFCI SPARE
(5) 15A-1P SPARE
OPTIONS AND ACCESSORIES:
GROUND BUS
(TYPICAL FOR ELECTRIC CODES ROOM 2 THRU 6)

PANEL LVP-EC-3 (ELECTRIC CODES-ROOM 1)
EATON, TYPE PRL1A, SURFACE MOUNT
CHARACTERISTICS:
120/208V-3Ø-4W
INTERRUPTING CAPACITY:
22,000 A RMS SYMMETRICAL
ARRANGEMENT:
100A MAINS, 100A-2P MAIN BREAKER
ONE ENCLOSURE, 8 POLES
(1) 20A-2P SPARE
(2) 20A-1P SPARE
(1) 20A-1P ARC FAULT SPARE
(1) 15A-1P GFCI SPARE
(2) 15A-1P SPARE
OPTIONS AND ACCESSORIES:
GROUND BUS
(TYPICAL FOR ELECTRIC CODES ROOM 2 THRU 6)

BUSWAY, BSU-EC-1 (ELECTRIC CODES)
EATON, POW-R-WAY III, LOW VOLTAGE BUSWAY
CHARACTERISTICS:
120/208V-3W-4Ø WITH 100% NEUTRAL AND
INTEGRAL HOUSING GROUND
ARRANGEMENT:
PLUG-IN CENTER, LENGTH AS SHOWN ON DRAWING
COMPLETE WITH FUSIBLE SWITCHES, END CABLE TAP BOX,
FORWARD/REARWARD CORNER JOINTS, FORWARD/REARWARD TEES,
HANGERS, ACCESSORIES, ETC. FOR A COMPLETE INSTALLATION

FUSIBLE SWITCH, FS-11
EATON CATALOG NUMBER PF3P321RGNH
CHARACTERISTICS:
30 AMP, 120/208V-3W-4Ø WITH 100% NEUTRAL
30 AMP CLASS R FUSES
TYPICAL FOR FS-21, FS-31, FS-41, FS-51 AND FS-61

FUSIBLE SWITCH, FS-12
EATON CATALOG NUMBER PF3P322RGNH
CHARACTERISTICS:
60 AMP, 120/208V-3W-4Ø WITH 100% NEUTRAL
60 AMP CLASS R FUSES
TYPICAL FOR FS-22, FS-32, FS-42, FS-52 AND FS-62

PROVIDE FOUR 12 AMP, FOUR 30A, FOUR 60 AMP, AND TWELVE 100 AMP CLASS R SPARE FUSES IN A WALL MOUNTED FUSE CABINET (LITTELFUSE CAT. NO. LSFC) LITTELFUSE CAT. NO. LSFC OR EQUAL

PANEL LVP-EC (ELECTRIC CODES)
EATON, POWER LINE 3x, SURFACE MOUNT
CHARACTERISTICS:
120/208V-3Ø-4W
INTERRUPTING CAPACITY:
22,000 A RMS SYMMETRICAL
ARRANGEMENT:
225A MAINS, 225A-3P SAINT TRIP MAIN BREAKER
ONE ENCLOSURE, 42 POLES
(1) 225A-3P ACTIVE
(5) 20A-1P ACTIVE
(5) 20A-1P SPARE
(6) 20A-1P GFCI ACTIVE
(5) 20A-1P GFCI SPARE
(5) 15A-1P SPARE
(5) 15A-1P GFCI SPARE
(5) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL LVP-EC-2 (ELECTRIC CODES-ROOM 1)
EATON, TYPE PRL1A, SURFACE MOUNT
CHARACTERISTICS:
120/208V-1Ø-3W
INTERRUPTING CAPACITY:
22,000 A RMS SYMMETRICAL
ARRANGEMENT:
100A MAINS, 32A-2P MAIN BREAKER
ONE ENCLOSURE, 24 POLES
(2) 20A-2P SPARE
(5) 20A-1P SPARE
(4) 20A-1P ARC FAULT SPARE
(3) 15A-1P GFCI SPARE
(5) 15A-1P SPARE
(3) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
(TYPICAL FOR ELECTRIC CODES ROOM 2 THRU 6)

ELECTRIC CORD REEL, ECR-1
HUBBELL CATALOG NO. HBL2520SP20P1
12AWG 3 CONDUCTOR 25 FOOT LONG SJO CORD
20 AMPS, 250 VOLTS, CEILING MOUNTED, WHITE
UL LISTED INDUSTRIAL POWER CORD REEL
GFCI MODULE, TWO 20 AMP DUPLEX RECEPTACLES
(TYPICAL)

MANUAL TRANSFER SWITCH, MTS-EC-1
EATON, CAT. NO. DT223URKAPS
CHARACTERISTICS:
120/208V-1Ø-3W
ARRANGEMENT:
100 AMP, NON-FUSIBLE, TWO-POLE, THREE WIRE
(TYPICAL FOR ELECTRIC CODES ROOM 2 THRU 6)

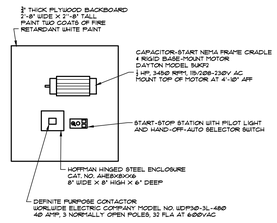
LOAD CENTER SMALL, LC-EC-1
EATON, TYPE BR24L100P, SURFACE MOUNT
CHARACTERISTICS:
120/208V-1Ø-3W
INTERRUPTING CAPACITY:
22,000 A RMS SYMMETRICAL
ARRANGEMENT:
100A MAINS, MAIN LUG ONLY
ONE ENCLOSURE, 24 POLES
(2) 20A-2P SPARE
(2) 15A-1P SPARE
(TYPICAL FOR ELECTRIC CODES ROOM 2 THRU 6)

OWNER FURNISHED EQUIPMENT, POWER REQUIREMENTS SCHEDULE

ROOM	NO.	EQUIPMENT	MANUFACTURER	MODEL NUMBER	HP OR A	PHASE	VOLTAGE	PANEL	CIRCUIT BREAKER	WIRING	DATA	REFERENCE NOTES
ELEC CODES	EC-1	ELECTRIC BENDER	UNKNOWN	UNKNOWN	7 A	1	115	LVP-EC	20A-1P GFCI	2-#12+#12 G. IN 1/2" C.	N	①

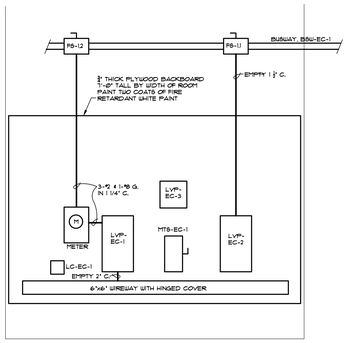
REFERENCE NOTES

① EQUIPMENT TO BE POWER FROM CORD REEL.



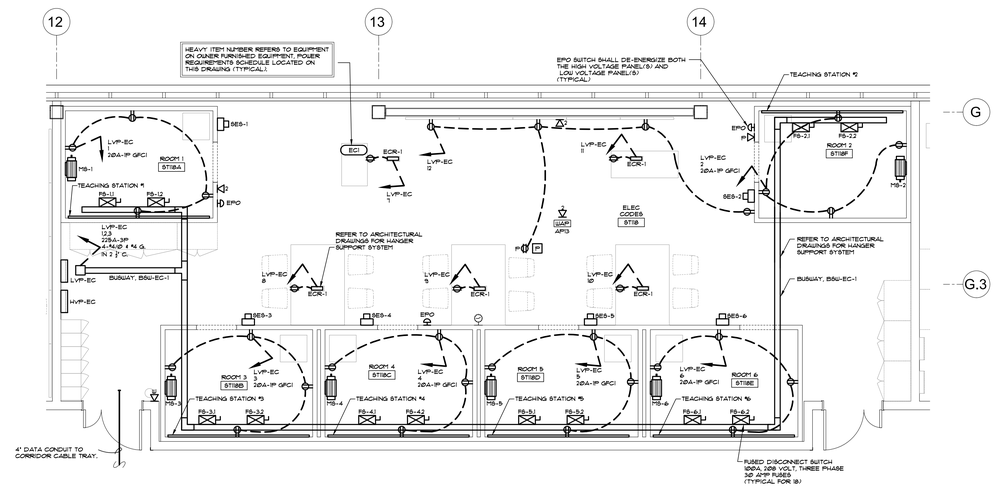
MOTOR STATION MS-1 WALL ELEVATION

SCALE: NONE (TYPICAL FOR MS-2 THRU 6)



TEACHING STATION #1 WALL ELEVATION

SCALE: 1/2" = 1'-0" (TYPICAL FOR TEACHING STATION 2 THRU 6)



ENLARGED PLAN - ELECTRICAL CODES

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

ONEIDA COUNTY NEW YORK 1798

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315 339 7855

MEP ENGINEER:
Towne Engineering
18 South Street
Utica, NY 13501
315 733 9000

SITE | CIVIL ENGINEER:
Appel Osborne Landscape Architecture
102 West Division Street, Suite 100
Syracuse, NY 13204
315 476 1022

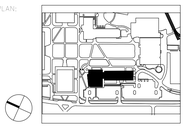
SEAL:



ISSUE/REVISION		
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

ALL DRAWINGS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

KEY PLAN:



PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

ENLARGED PLAN – ELECTRICAL CODES

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-510

OWNER FURNISHED EQUIPMENT, POWER REQUIREMENTS SCHEDULE

ROOM	NO.	EQUIPMENT	MANUFCTURER	MODEL NUMBER	HP OR A	PHASE	VOLTAGE	PANEL	CIRCUIT BREAKER	WIRING	DATA	REFERENCE NOTES
MATERIALS PROCESS	MP1	STABLE TEMP OVEN	COLE PALMER	STABLE TEMP	20 A	1	240	LVP-MP	20A-2P GFCI	2-#12 #12 G, IN ¾" C.	N	⑤
	MP2	THERMO SCIENTIFIC OVEN	LINDBERG/BLUE	BF51732C-1	4.5 KW	1	240	LVP-MP	20A-2P GFCI	2-#12 #12 G, IN ¾" C.	N	⑤
	MP3	OVEN	LINDBERG/BLUE M	LBF333C	25 A (5.9 KW)	1	240	LVP-MP	40A-2P GFCI	2-#8 1-#10 G, IN ¾" C.	N	④
	MP4	FURNACE	JOHNSON GAS APPLIANCE COMPANY	920					WIRED THRU ITEM MP4A	2-#12 #12 G, IN ¾" C.	N	
	MP4A	FURNACE	JOHNSON GAS APPLIANCE COMPANY	920	5 A	1	120	LVP-MP	20A-1P GFCI	2-#12 #12 G, IN ¾" C.	N	④
	MP5	SPARE NUMBER										
	MP6	SPARE NUMBER										
	MP7	SAND MULLER	SUFF-MUL	ML-65	1 HP (13.2 A)	1	120	LVP-MP	20A-1P GFCI	2-#12 #12 G, IN ¾" C.	N	③
	MP8	SPARE NUMBER										
	MP9	MOLD WORK STATION										NO ELECTRIC
	MP10	GRINDER	CENTURY		1/3 HP	1	120	---	---	---	N	POWERED FROM 6R-MT-1 ①
	MP11	GRINDER	BEUHLER	SURFMET	5 A	1	120	---	---	---	N	POWERED FROM 6R-MT-1 ①
MATERIALS TESTING	MT-1	UNIVERSAL IMPACT MACHINE	SONTAG	SL-1								NO ELECTRIC
	MT-2	HARDNESS TESTER	WILSON ROCKWELL	3JR	5 A	1	120	LVP-MT	---	---	N	②
	MT-3	HARDNESS TESTER	WILSON ROCKWELL	3QR	5 A	1	120	LVP-MT	---	---	N	②
	MT-4	HARDNESS TESTER	WILSON ROCKWELL	4TY	5 A	1	120	LVP-MT	---	---	N	②
	MT-5	SPARE NUMBER										
	MT-6	STRENGTH TESTER	TINIUS OLSEN	MODEL 60/2	4 KVA	3	208	LVP-MT	20A-3P GFCI	3-#12 #12 G, IN ¾" C.	Y	④
	MA33	MICRO-HITE DCC CMM	BROWN AND SHARP		15 KW	1	120	LVP-MT	20A-1P GFCI	2-#12 #12 G, IN ¾" C.	Y	①
	MA34	OPTICAL COMPARATOR	JONES AND LAMSON	TC-14	1 A	1	120	LVP-MT	20A-1P GFCI	2-#12 #12 G, IN ¾" C.	N	①
	MA47	WATER JET CUTTER	OMAX	3.7 KW	3.7 KW	1	220	LVP-MT	20A-2P GFCI	2-#12 #12 G, IN ¾" C.	Y	⑥
	MA48	CNC CMM	MITUTOYO	MISTAR 555 CMM	15 KW	1	120	LVP-MT	20A-1P GFCI	2-#12 #12 G, IN ¾" C.	Y	①

REFERENCE NOTES

① EQUIPMENT WITH CORD AND PLUG AND POWERED FROM ADJACENT SURFACE RACEWAY.
② EQUIPMENT HAS CORD AND PLUG AND POWERED THRU CORD REEL.
③ EQUIPMENT HAS CORD AND PLUG AND REQUIRES A NEMA L5-20R HUBBELL CATALOG NUMBER HBL2310 TWIST LOCK RECEPTACLE (20A, 125V, 2 POLE, 3 WIRE) WITH COVER PLATE.
④ EQUIPMENT IS HARD WIRED AND REQUIRES A DISCONNECT SWITCH.
⑤ EQUIPMENT HAS CORD AND PLUG AND REQUIRES A NEMA 6-20R HUBBELL CATALOG NUMBER HBL5461 STRAIGHT BLADE RECEPTACLE (20A, 250V, 2 POLE, 3 WIRE) WITH COVER PLATE.
⑥ EQUIPMENT HAS CORD AND PLUG AND REQUIRES A NEMA L6-20R HUBBELL CATALOG NUMBER HBL2320 TWIST LOCK RECEPTACLE (20A, 250V, 2 POLE, 3 WIRE) WITH COVER PLATE.
⑦ EQUIPMENT HAS CORD AND PLUG AND REQUIRES A NEMA 5-20R (HUBBELL CATALOG NUMBER HBL5352)

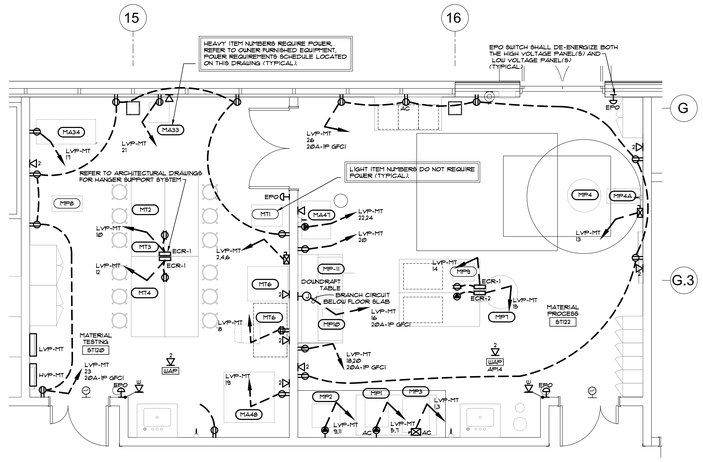
EQUIPMENT NOTES

PANEL LVP-MT (MATERIAL TESTING)
EATON, POWER LINE 3X, SURFACE MOUNT
CHARACTERISTICS:
480Y/277V-3Ø-4W
INTERRUPTING CAPACITY:
22,000 AMPS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 125A-3P SHUNT TRIP MAIN BREAKER
ONE ENCLOSURE, 42 POLES
(1) 20A-3P SPARE
(1) 20A-1P ACTIVE
(4) 20A-1P SPARE
(3) 15A-1P SPARE
(28) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

ELECTRIC CORD REEL ECR-1
HUBBELL CATALOG NO HBL09/23SP22EM1
12AWG 3 CONDUCTOR 25 FOOT LONG SJO CORD
20 AMPS, 2ND VOLTS, CEILING MOUNTED, WHITE
UL LISTED, INDUSTRIAL POWER CORD REEL
GFCI MODULE, TWO 20 AMP DUPLEX RECEPTACLES
(TYPICAL)

PANEL LVP-MT (MATERIAL TESTING)
EATON, POWER LINE 3X, SURFACE MOUNT
CHARACTERISTICS:
120/208V-3Ø-4W
INTERRUPTING CAPACITY:
22,000 AMPS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 125A-3P SHUNT TRIP MAIN BREAKER
ONE ENCLOSURE, 42 POLES
(1) 40A-2P GFCI ACTIVE
(1) 20A-1P GFCI ACTIVE
(3) 20A-2P GFCI ACTIVE
(3) 20A-1P ACTIVE
(4) 20A-1P SPARE
(1) 20A-1P GFCI ACTIVE
(3) 20A-1P GFCI SPARE
(3) 15A-1P SPARE
(2) 15A-1P GFCI SPARE
(5) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

ELECTRIC CORD REEL ECR-2
HUBBELL CATALOG NO HBL09/23SP22EM1
12AWG 3 CONDUCTOR 25 FOOT LONG SJO CORD
20 AMPS, 125 VOLTS, CEILING MOUNTED, WHITE
UL LISTED, INDUSTRIAL POWER CORD REEL
HUBBELL HBL2310 PURPOSE RECEPTACLE
(TYPICAL)



ENLARGED PLAN - MATERIAL TESTING & MATERIAL PROCESS

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

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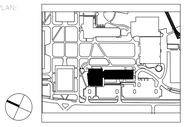
LICENSED PROFESSIONAL ENGINEER
WILLIAM H. TOWNE
NO. 045890
UNIVERSITY OF THE STATE OF NEW YORK
COA # 101284 EXPIRATION DATE 08/31/2027

ISSUE/REVISION

NO.	DATE	COMMENTS
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KEY PLAN:



PLAN NORTH

PROJECT:

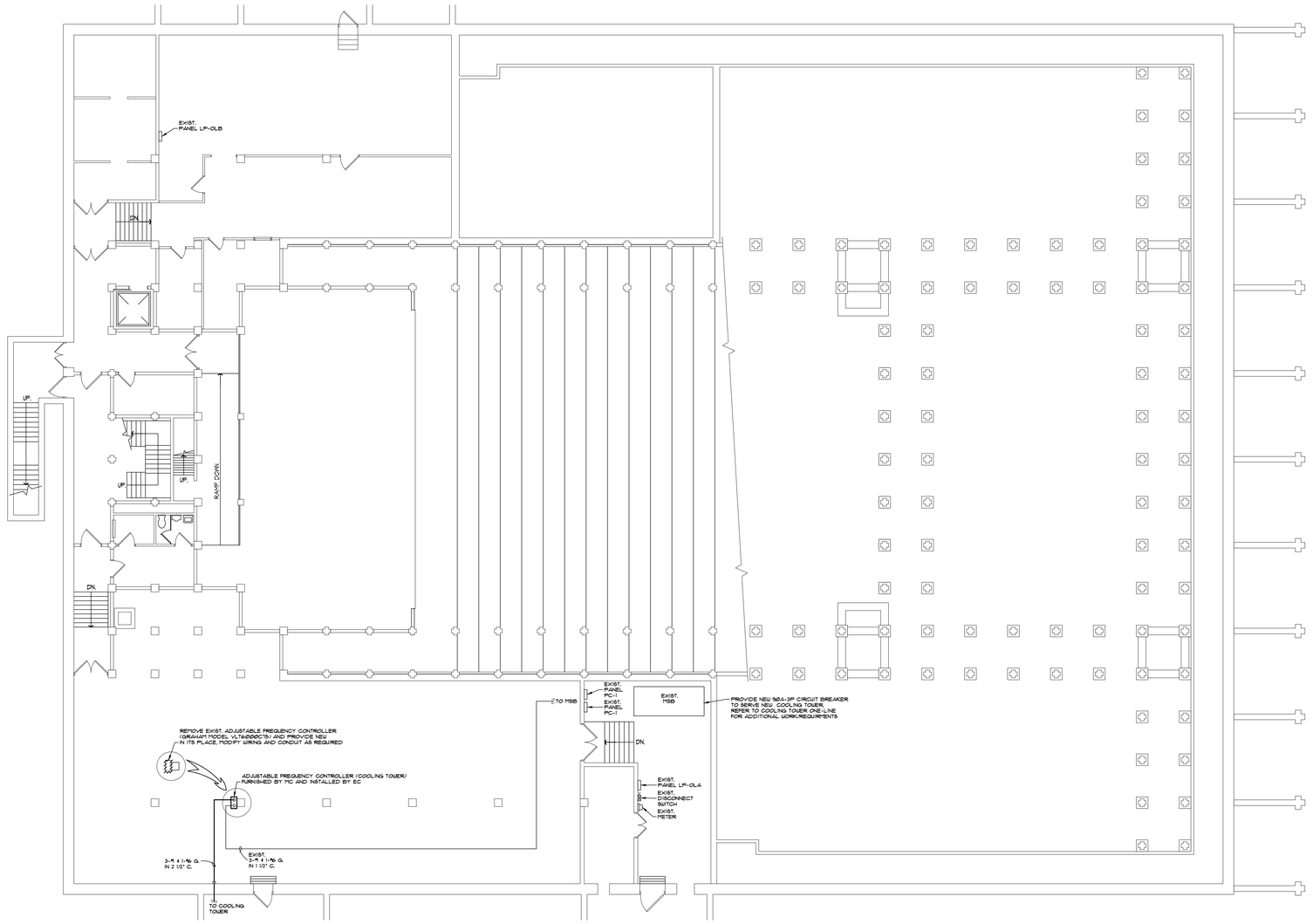
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

ENLARGED PLAN – MATERIAL TESTING & MATERIAL PROCESS

PROJECT NO: 23000 (4038) | DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION | SCALE: AS NOTED

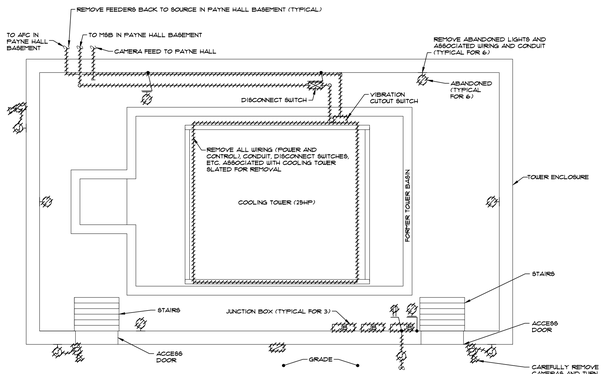
E-511



BASEMENT FLOOR PLAN (PAYNE HALL)

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

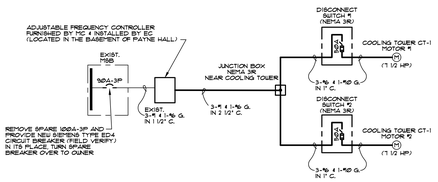
NORTH



COOLING TOWER REMOVALS PLAN

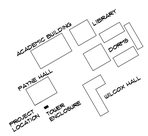
SCALE: 1/4" = 1' 0"

NORTH



COOLING TOWER ONE LINE

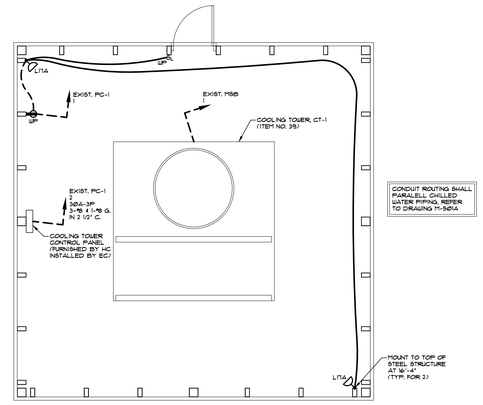
SCALE: NONE



KEY PLAN

SCALE: NONE

NORTH



COOLING TOWER PLANS

SCALE: 1/4" = 1' 0"

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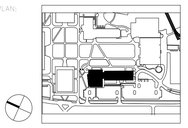
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COA # 101384 EXPIRATION DATE 09/31/2027
LICENSED PROFESSIONAL ENGINEER
WILLIAM H. TOWNE
NO. 045890
UNIVERSITY OF THE STATE OF NEW YORK

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PLAN NORTH

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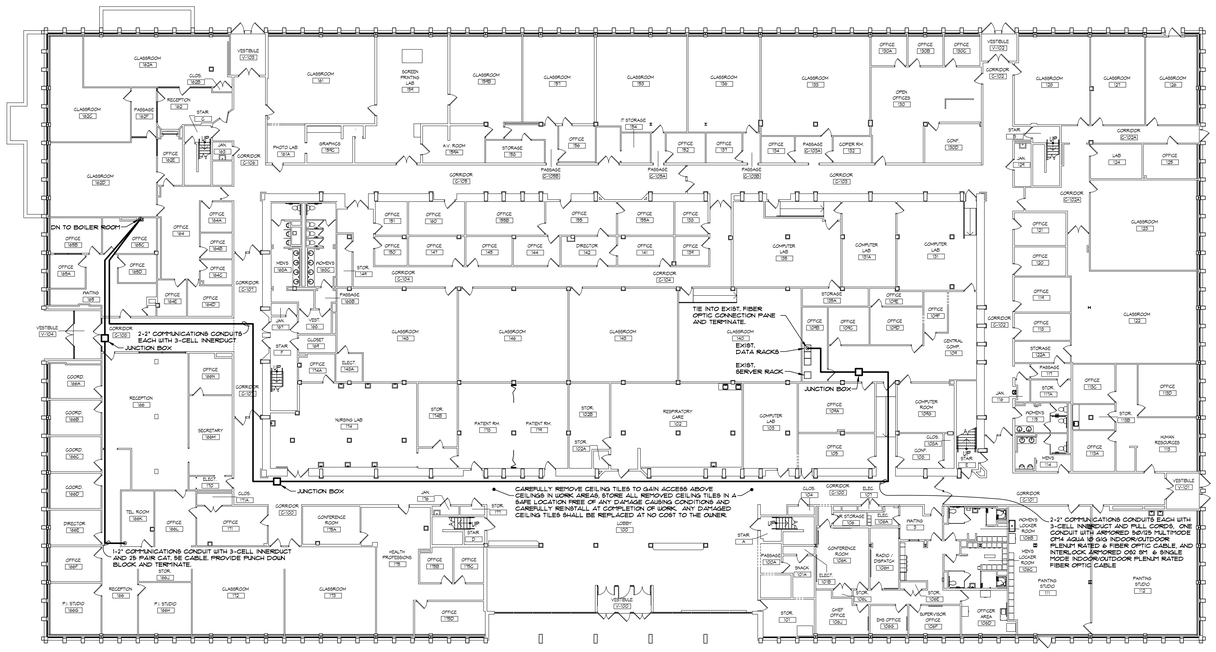
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

COOLING TOWER PLANS (PAYNE HALL)

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

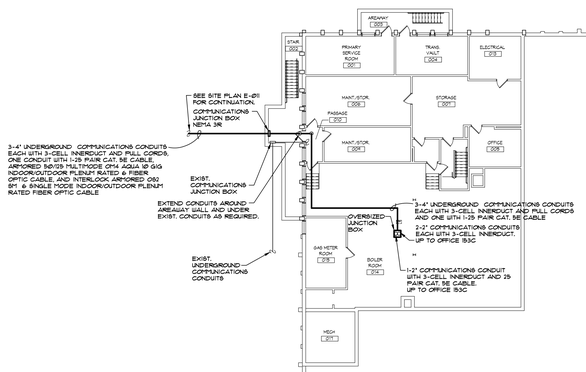
E-512



ALL PENETRATIONS THRU THE FLOOR OR WALLS SHALL BE FIRE STOPPED.

FIRST FLOOR PLAN (ACADEMIC BLDG.)

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



BASEMENT FLOOR PLANS (ACADEMIC BLDG.)

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

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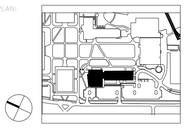
SEAL:

LICENSED PROFESSIONAL ENGINEER — WILLIAM H. TOWNE — NO. 045890 — STATE OF NEW YORK — COA # 100184 — EXPIRATION DATE: 09/31/2027

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KEY PLAN:



PLAN NORTH

PROJECT:

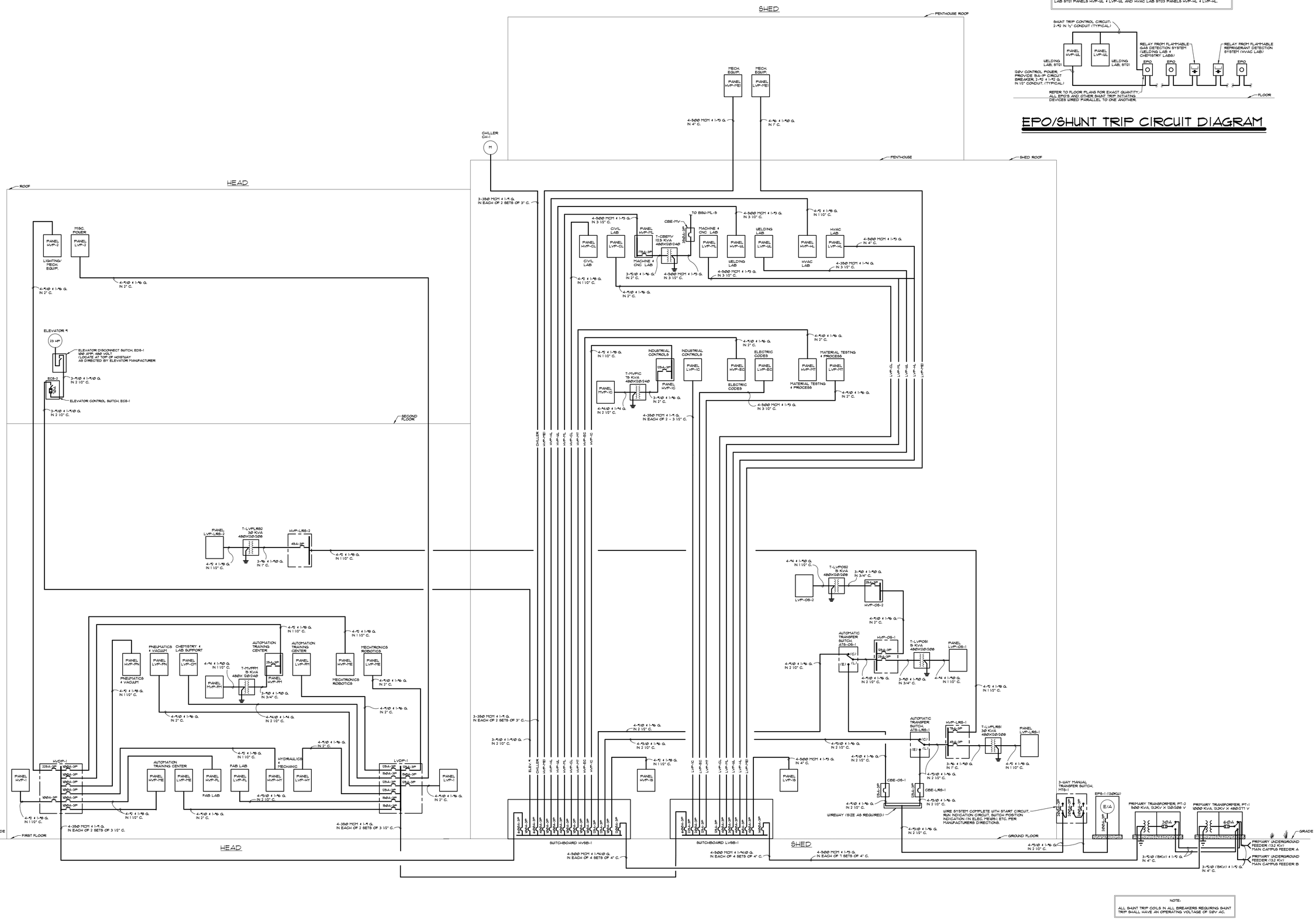
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

BASEMENT AND FIRST FLOOR PLANS (ACADEMIC BUILDING)

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-513



NOTE:

EPO CONTROL BUTTONS SHALL BE STI STOPPER STATION SERIES DEVICE COMPLETE WITH YELLOW COLORE TURN TO RESET BUTTON, LIFT UP SHIELD, EMERGENCY POWER OFF LABELING.

EPO SWITCHES SHALL BE INSTALLED AT 48" AFF.

EC SHALL FOLLOW MANUFACTURERS DIRECTIONS FOR SHUNT TRIP SHUTDOWN/INTERFACE WITH FLAMMABLE GAS DETECTION SYSTEM (WELDING LAB, CHEMISTRY LABS) AND REFRIGERANT DETECTION SYSTEM (HVAC LAB).

HVAC LAB ST03 FLAMMABLE REFRIGERANT DETECTION SYSTEM SHALL SHUT DOWN WELDING LAB ST01 PANELS HVP-UL & LVP-UL AND HVAC LAB ST03 PANELS HVP-HL & LVP-HL.

EPO/SHUNT TRIP CIRCUIT DIAGRAM

ONE LINE POWER DIAGRAM

SCALE: NONE

NOTE:

ALL SHUNT TRIP COILS IN ALL BREAKERS REQUIRING SHUNT TRIP SHALL HAVE AN OPERATING VOLTAGE OF 120V AC.

ONEIDA COUNTY NEW YORK 1798

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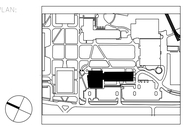
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KEY PLAN:



PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

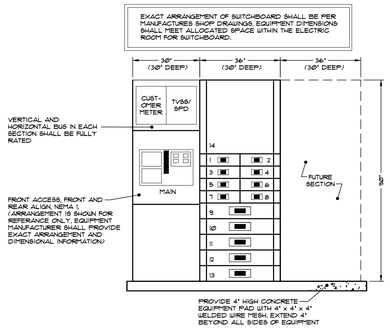
ONE LINE POWER DIAGRAM

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
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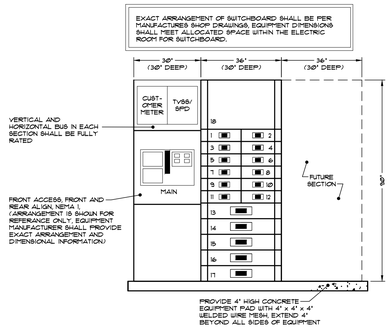
E-601

SWITCHBOARD, LVSB-1 (120/208V-3Φ-4W)		
NUMBER	CIRCUIT BREAKER	LOAD
MAIN	1400A-3P	MAIN CIRCUIT BREAKER (100% RATED)
1	800A-3P	LVP-ME1 (MECHANICAL EQUIPMENT)
2	2000A-3P	SPARE
3	125A-3P	SPARE
4	125A-3P	LVP-CL (CIVIL LAB)
5	225A-3P	SPARE
6	125A-3P	LVP-MT (MATERIAL TESTING)
7	225A-3P	LVP-EC (ELECTRICAL CODES)
8	225A-3P	LVP-IC (INDUSTRIAL CONTROLS)
9	3600A-3P	LVP-HL (HVAC LAB)
10	400A-3P	LVP-ML (MACHINE 4 CNC LAB)
11	400A-3P	LVP-1B (FIRST FLOOR SHED)
12	400A-3P	LVP-UL (WELDING LAB)
13	600A-3P	LVDP-1 (FIRST FLOOR HEAD)
14	SPACE	SPACE FOR 12 ADDITIONAL 225A-3P BREAKERS

SWITCHBOARD, HVSB-1 (277/480V-3Φ-4W)		
NUMBER	CIRCUIT BREAKER	LOAD
MAIN	1200A-3P	MAIN CIRCUIT BREAKER (100% RATED)
1	100A-3P	ELEVATOR
2	70A-3P	SPARE
3	100A-3P	HVP-MT (MATERIAL TESTING)
4	100A-3P	HVP-EC (ELECTRICAL CODES)
5	100A-3P	HVP-1B (FIRST FLOOR SHED)
6	100A-3P	HVP-CL (CIVIL LAB)
7	100A-3P	HVP-HL (HVAC LAB)
8	150A-3P	HVP-IC (INDUSTRIAL CONTROLS)
9	125A-3P	ATS-LRS-1
10	125A-3P	SPARE
11	225A-3P	SPARE
12	175A-3P	ATS-OS-1
13	400A-3P	HVP-ME1 (MECHANICAL EQUIPMENT)
14	400A-3P	HVP-UL (WELDING LAB)
15	400A-3P	HVP-ML (MACHINE 4 CNC LAB)
16	600A-3P	HVDP-1 (FIRST FLOOR HEAD)
17	600A-3P	CHILLER CH-1
18	SPACE	SPACE FOR 8 ADDITIONAL 225A-3P BREAKERS



ELEVATION OF SWITCHBOARD LVSB-1



ELEVATION OF SWITCHBOARD HVSB-1

PAD MOUNTED DISTRIBUTION TRANSFORMERS SCHEDULE

UNIT NUMBER	PANEL SERVED	MANUFACTURER	IMPEDANCE %	KVA RATING	HIGH VOLTAGE	HV BIL	PRIMARY AMPS	LOW VOLTAGE	LV BIL	SEC. AMPS	DEGREE RISE (C)	TAPS (2 1/2%)	WINDING
PT-1	HVSB-1	COOPER	5.75	1000	13.2 KV	95 KV	44	480Y/277	30 KV	1204	65	4	ALUMINUM
PT-2	LVSB-1	COOPER	5.75	500	13.2 KV	95 KV	22	120/208	30 KV	1389	65	4	ALUMINUM

1. PROVIDE INTEGRAL FOUR-POSITION SECTIONALIZING LOAD BREAK SWITCH, LOOP FEED.
2. CONTACT MR. STEVE SNYDER OF THE HC ZANG AGENCY INC. AT (716) 877-3671, OFFICE OR (716) 946-6715, CELL FOR ADDITIONAL INFORMATION.

TRANSFORMERS SCHEDULE

UNIT NUMBER	PANEL SERVED	MANUFACTURER	CATALOG NO.	KVA RATING	PRIMARY VOLTAGE	PRIMARY AMPS	SEC. VOLTAGE	SEC. AMPS	K FACTOR RATING	DEGREE RISE (C)	TAPS (2 1/2%)	WINDING	MOUNTING
T-LVPLRS1	LVP-LRS-1	EATON	V48T12B75E15CU	75	480	36	120/208	83	---	115	6	COPPER	FLOOR
T-LVPLRS2	LVP-LRS-2	EATON	V48T12B75E15CU	75	480	36	120/208	83	---	115	6	COPPER	FLOOR
T-LVPOS1	LVP-OS-1	EATON	V48T12B15S15CU	15	480	18	120/208	41	---	115	6	COPPER	FLOOR
T-LVPOS2	LVP-OS-2	EATON	V48T12B15E15CU	15	480	18	120/208	41	---	115	6	COPPER	FLOOR
T-MVPFL	MVP-FL	MADDOX	MT-DRY-1.5TCU	15	480	18	120/240	36	---	115	6	COPPER	FLOOR
T-MVPIC	MVP-IC	MADDOX	MT-DRY-112CU	75	480	90	120/240	180	---	115	6	COPPER	FLOOR
T-CBEHV	CBE-HV	MADDOX	MT-DRY-113CU	112.5	480	135	120/240	271	---	115	6	COPPER	FLOOR

GENERAL NOTES:

1. PROVIDE 4" HIGH CONCRETE EQUIPMENT PAD BENEATH EACH TRANSFORMER. DIMENSIONS TO BE FIELD DETERMINED FROM EXACT TRANSFORMER DIMENSIONS.

PANELBOARD NOTES

FIRST FLOOR - HEAD

PANEL HVDP-1
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
480/277V-3Φ-4W
INTERRUPTING CAPACITY:
65,000 A RMS SYMMETRICAL
ARRANGEMENT:
800A MAINS, 600A-3P MAIN BREAKER
ONE ENCLOSURE, 42 POLES
(1) 225A-3P ACTIVE
(1) 100A-3P ACTIVE
(1) 125A-3P SPARE
(6) 100A-3P ACTIVE
(9) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL LVDP-1
EATON, POWER LINE 3X, SURFACE MOUNT
CHARACTERISTICS:
120/208V-3Φ-4W
INTERRUPTING CAPACITY:
65,000 A RMS SYMMETRICAL
ARRANGEMENT:
800A MAINS, 600A-3P MAIN BREAKER
ONE ENCLOSURE, 42 POLES
(1) 225A-3P SPARE
(1) 200A-3P ACTIVE
(2) 150A-3P ACTIVE
(1) 150A-3P SPARE
(5) 125A-3P ACTIVE
(1) 100A-3P SPARE
(9) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL HVP-1
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
480/277V-3Φ-4W
INTERRUPTING CAPACITY:
30,000 A RMS SYMMETRICAL
ARRANGEMENT:
225A MAINS, MAIN LUG ONLY
ONE ENCLOSURE, 36 POLES
(5) 20A-1P ACTIVE
(5) 20A-1P SPARE
(1) 15A-1P ACTIVE
(3) 15A-1P SPARE
(24) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL LVP-1
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
120/208V-3Φ-4W
INTERRUPTING CAPACITY:
22,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, MAIN LUG ONLY
ONE ENCLOSURE, 48 POLES
(26) 20A-1P ACTIVE
(9) 20A-1P SPARE
(3) 20A-1P GFCI ACTIVE
(2) 20A-1P GFCI SPARE
(1) 15A-2P ACTIVE
(4) 15A-1P SPARE
(1) 15A-1P GFCI SPARE
(5) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL HVP-LRS-2
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
120/208V-3Φ-4W
INTERRUPTING CAPACITY:
10,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 75A-3P MAIN BREAKER
ONE ENCLOSURE, 30 POLES
(1) 45A-3P ACTIVE
(1) 20A-1P ACTIVE
(4) 20A-1P SPARE
(1) 15A-1P ACTIVE
(4) 15A-1P SPARE
(19) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL LVP-LRS-2
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
120/208V-3Φ-4W
INTERRUPTING CAPACITY:
10,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 100A-3P MAIN BREAKER
ONE ENCLOSURE, 30 POLES
(6) 20A-1P ACTIVE
(4) 20A-1P SPARE
(4) 15A-1P ACTIVE
(14) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

SECOND FLOOR - HEAD

PANEL HVP-2
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
480/277V-3Φ-4W
INTERRUPTING CAPACITY:
65,000 A RMS SYMMETRICAL
ARRANGEMENT:
225A MAINS, 225A-3P MAIN BREAKER
ONE ENCLOSURE, 48 POLES
(2) 60A-3P ACTIVE
(5) 50A-3P ACTIVE
(5) 40A-3P ACTIVE
(1) 30A-3P ACTIVE
(5) 20A-3P ACTIVE
(6) 20A-1P ACTIVE
(3) 20A-1P SPARE
(1) 20A-1P GFCI ACTIVE
(1) 15A-3P SPARE
(3) 15A-1P SPARE
(1) 15A-1P GFCI SPARE
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL LVP-2
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
120/208V-3Φ-4W
INTERRUPTING CAPACITY:
10,000 A RMS SYMMETRICAL
ARRANGEMENT:
225A MAINS, 150A-3P MAIN BREAKER
ONE ENCLOSURE, 42 POLES
(1) 20A-3P ACTIVE
(29) 20A-1P ACTIVE
(7) 20A-1P SPARE
(6) 20A-1P GFCI ACTIVE
(3) 20A-1P GFCI SPARE
(4) 15A-1P ACTIVE
(4) 15A-1P SPARE
(2) 15A-1P GFCI SPARE
(5) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

ELEVATOR CONTROL SWITCH, ECS-1
EATON CUTLER-HAMMER, E53TRIGGFB
30A AMP, FUSED, 480 VOLT
GENERAL PILOT LIGHT
24 VDC FIRE SAFETY INTERFACE RELAY,
SINGLE-POLE FIRE ALARM VOLTAGE MONITORING RELAY
1 NO/1 NC AUXILIARY CONTACTS
SURGE PROTECTION

FIRST FLOOR - SHED

SWITCHBOARD HVSB-1
EATON POW-R-LINE XPERT
CHARACTERISTICS:
277/480V-3Φ-4W
INTERRUPTING CAPACITY:
65,000 A RMS SYMMETRICAL (MINIMUM)
ARRANGEMENT:
1200A MAINS, 1200A-3P MAIN CIRCUIT BREAKER (100% RATED)
ONE ENCLOSURE, 66" WIDE x 36" DEEP x 90" HIGH
(1) 400A-3P ACTIVE
(1) 225A-3P SPARE
(1) 225A-3P ACTIVE
(2) 175A-3P ACTIVE
(1) 150A-3P ACTIVE
(1) 125A-3P SPARE
(1) 100A-3P ACTIVE
(1) 70A-3P SPARE
(8) 225 AMP SPACES
SERVICE ENTRANCE LABELED, GROUND BUS, NEUTRAL BUS,
VERTICAL ISOLATION BARRIERS, HINGED WIRE GUTTER,
1200A, 3P, POW-R-3/4 BREAKER, 1200 AMP FRAME, 100% RATED, 1200A SENSOR
LOCAL USING BREAKER INTERFACE
FIXED LSIG TRIP UNIT WITH AMPTA
SPD SERIES 225KA SPD, STANDARD WITH FUSIBLE DISCONNECT
BONDING JUMPER, AUXILIARY SWITCH 4A/4B
1200 AMP CUSTOMER METERING, PWM2460, CT'S, WITH DISPLAY
COMPLETE WITH REQUIRED ALL ACCESSORIES.

SWITCHBOARD LVSB-1
EATON POW-R-LINE XPERT
CHARACTERISTICS:
120/208V-3Φ-4W
INTERRUPTING CAPACITY:
65,000 A RMS SYMMETRICAL (MINIMUM)
ARRANGEMENT:
1400A MAINS, 1400A MAIN CIRCUIT BREAKER (100% RATED)
ONE ENCLOSURE, 66" WIDE x 36" DEEP x 90" HIGH
(1) 600A-3P ACTIVE
(2) 400A-3P ACTIVE
(2) 300A-3P ACTIVE
(2) 225A-3P SPARE
(1) 225A-3P SPARE
(2) 125A-3P SPARE
(1) 125A-3P SPARE
(1) 90A-3P ACTIVE
(1) 80A-3P ACTIVE
(12) 225 AMP SPACES
SERVICE ENTRANCE LABELED, GROUND BUS, NEUTRAL BUS,
VERTICAL ISOLATION BARRIERS, HINGED WIRE GUTTER,
1400A, 3P, POW-R-3/4 BREAKER, 1600 AMP FRAME, 100% RATED, 1400A SENSOR
LOCAL USING BREAKER INTERFACE
FIXED LSIG TRIP UNIT WITH AMPTA
SPD SERIES 225KA SPD, STANDARD WITH FUSIBLE DISCONNECT
BONDING JUMPER, AUXILIARY SWITCH 4A/4B
1600 AMP CUSTOMER METERING, PWM2460, CT'S, WITH DISPLAY
COMPLETE WITH REQUIRED ALL ACCESSORIES.

PANEL HVP-1B
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
480/277V-3Φ-4W
INTERRUPTING CAPACITY:
65,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, MAIN LUG ONLY
ONE ENCLOSURE, 42 POLES
(1) 30A-2P ACTIVE
(1) 20A-3P ACTIVE
(2) 20A-1P ACTIVE
(7) 20A-1P SPARE
(1) 15A-3P ACTIVE
(1) 15A-2P ACTIVE
(4) 15A-1P SPARE
(21) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL LVP-1B
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
120/208V-3Φ-4W
INTERRUPTING CAPACITY:
65,000 A RMS SYMMETRICAL
ARRANGEMENT:
400A MAINS, MAIN LUG ONLY
ONE ENCLOSURE, 42 POLES
(2) 40A-2P SPARE
(1) 30A-2P ACTIVE
(30) 20A-1P ACTIVE
(5) 20A-1P SPARE
(7) 20A-1P GFCI ACTIVE
(4) 20A-1P GFCI SPARE
(1) 15A-3P ACTIVE
(1) 15A-1P ACTIVE
(4) 15A-1P SPARE
(2) 15A-1P GFCI SPARE
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

FIRST FLOOR - SHED

TRIPLESWITCH 3-WAY MANUAL TRANSFER SWITCH, MTS-1
ESL POWER SYSTEMS, INC. TRIPLESWITCH
SERIES 3WLM (MANUAL 3R, WALL MOUNTABLE)
CHARACTERISTICS:
277/480V-3Φ-4W
CAPACITY:
1200 AMPS
INTERRUPTING CAPACITY:
65,000 A RMS SYMMETRICAL
ARRANGEMENT:
800A/1CH (PER PHASE) MECHANICAL LUGS FOR FEEDER CONNECTIONS
(EACH BREAKER SHALL INCLUDE 3 AUXILIARY CONTACTS)
2000A 80% RATED C/B, SERVES PERMANENT GENERATOR/ATS
2000A 80% RATED C/B, SERVES PORTABLE GENERATOR AND ATS
2000A 80% RATED C/B, SERVES PERMANENT GENERATOR AND LOAD BANK
CIRCULATING FANS
NEUTRAL BLOCK, CONTACT STRIP
GROUND BUS
FEMALE CAM-STYLE PLUGS FOR PORTABLE GENERATOR CABLES
MALE CAM-STYLE PLUGS FOR LOAD BANK CABLES
OPTIONS AND ACCESSORIES:
TERMINAL STRIP FOR AUXILIARY CONTACTS

EMERGENCY POWER SYSTEM, EPS-1
GENERAC SPARK-IGNITED GENERATOR SET, MODEL SG130
277/480V-3Φ-4W
ALTERNATOR:
UPRATED ALTERNATOR (K0202024Y21-2000KW)
105° C STANDBY TEMPERATURE RATING
130 KW, 312.5 KVA, 1.0 (UNITY POWER FACTOR), 60 HZ, 1800 RPM
PRIME MOVER:
NATURAL GAS ENGINE
FUEL CONSUMPTION:
FULL LOAD: 1,496 SCFH, HALF LOAD: 781 SCFH
HEAT REJECTION (FULL LOAD):
COOLANT: 19,638 BTUH RADIANT: 2271 BTUH
AIR FLOW:
COMBUSTION (FULL LOAD): 349 CFM
ALTERNATOR: 9,751 CFM
EXHAUST:
GAS FLOW (FULL LOAD): 1,341 CFM
COOLANT (BLOCK HEATER):
40000 W, 208V
ACCESSORIES:
WEATHER PROOF/SOUND PROOF HOUSING (LEVEL 2)
2) LIGHT REMOTE ANNUNCIATOR, 12 AMP BATTERY CHARGER
120 VOLT GFCI, 240 VOLT OUTLET, 1200% RATED BREAKER
8 POSITION LOAD CENTER, EXTREME COLD WEATHER KIT
AUTOMATIC TRANSFER SWITCH, ATS-LRS-1
225A-3P (480 VAC)
UTILITY TO GENERATOR
AUTOMATIC TRANSFER SWITCH, ATS-OS-1
400A-3P (480 VAC)
UTILITY TO GENERATOR

CIRCUIT BREAKER ENCLOSURE, CBE-LRS-1
EATON, SURFACE MOUNTED
125A-3P WITH SOLID NEUTRAL
22,000 A RMS SYMTRICAL

CIRCUIT BREAKER ENCLOSURE, CBE-OS-1
EATON, SURFACE MOUNTED
150A-3P WITH SOLID NEUTRAL
22,000 A RMS SYMTRICAL

PANEL HVP-OS-1
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
480/277V-3Φ-4W
INTERRUPTING CAPACITY:
30,000 A RMS SYMMETRICAL
ARRANGEMENT:
225A MAINS, 175A-3P MAIN BREAKER
ONE ENCLOSURE, 36 POLES
(1) 15A-3P ACTIVE
(1) 20A-3P ACTIVE
(4) 20A-1P SPARE
(2) 15A-3P ACTIVE
(4) 15A-1P SPARE
(24) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL LVP-OS-1
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
120/208V-3Φ-4W
INTERRUPTING CAPACITY:
10,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 60A-3P MAIN BREAKER
ONE ENCLOSURE, 30 POLES
(1) 20A-3P ACTIVE
(4) 20A-1P SPARE
(2) 15A-3P ACTIVE
(4) 15A-1P SPARE
(19) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

FIRST FLOOR - SHED

PANEL HVP-OS-2
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
480/277V-3Φ-4W
INTERRUPTING CAPACITY:
30,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 125A-3P MAIN BREAKER
ONE ENCLOSURE, 36 POLES
(1) 15A-3P ACTIVE
(2) 20A-3P ACTIVE
(4) 20A-1P SPARE
(1) 15A-3P ACTIVE
(4) 15A-1P SPARE
(19) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL LVP-OS-2
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
120/208V-3Φ-4W
INTERRUPTING CAPACITY:
10,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 60A-3P MAIN BREAKER
ONE ENCLOSURE, 30 POLES
(3) 20A-1P ACTIVE
(4) 20A-1P SPARE
(6) 15A-1P ACTIVE
(4) 15A-1P SPARE
(13) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL LVP-LRS-1
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
480/277V-3Φ-4W
INTERRUPTING CAPACITY:
30,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 100A-3P MAIN BREAKER
ONE ENCLOSURE, 30 POLES
(1) 15A-3P ACTIVE
(1) 20A-3P ACTIVE
(4) 20A-1P SPARE
(4) 15A-1P ACTIVE
(4) 15A-1P SPARE
(11) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL LVP-LRS-1
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
120/208V-3Φ-4W
INTERRUPTING CAPACITY:
10,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 100A-3P MAIN BREAKER
ONE ENCLOSURE, 30 POLES
(5) 15A-3P ACTIVE
(1) 20A-3P ACTIVE
(4) 20A-1P SPARE
(4) 15A-1P ACTIVE
(4) 15A-1P SPARE
(12) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PENTHOUSE

PANEL HVP-ME1
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
480/277V-3Φ-4W
INTERRUPTING CAPACITY:
65,000 A RMS SYMMETRICAL
ARRANGEMENT:
400A MAINS, 400A-3P MAIN BREAKER
THREE ENCLOSURES, 48 POLES EACH
(2) 60A-3P ACTIVE
(1) 50A-3P ACTIVE
(3) 25A-3P ACTIVE
(1) 25A-3P SPARE
(2) 20A-3P ACTIVE
(1) 20A-3P SPARE
(1) 20A-1P ACTIVE
(3) 20A-2P SPARE
(2) 20A-1P GFCI SPARE
(23) 15A-3P ACTIVE
(2) 15A-3P SPARE
(3) 15A-1P SPARE
(2) 15A-1P GFCI SPARE
(22) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

PANEL LVP-ME1
EATON, POWER LINE 3X, SURFACE MOUNTED
CHARACTERISTICS:
120/208V-3Φ-4W
INTERRUPTING CAPACITY:
10,000 A RMS SYMMETRICAL
ARRANGEMENT:
125A MAINS, 60A-3P MAIN BREAKER
ONE ENCLOSURE, 30 POLES
(3) 20A-1P ACTIVE
(5) 20A-1P SPARE
(3) 20A-1P GFCI ACTIVE
(3) 20A-1P GFCI SPARE
(3) 15A-1P ACTIVE
(3) 15A-1P SPARE
(2) 15A-1P GFCI SPARE
(6) SPACES
OPTIONS AND ACCESSORIES:
GROUND BUS
INTEGRAL TVSS UNIT (65 KA PER MODE, 130 KA PER PHASE)

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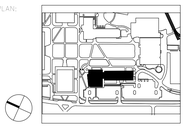
SEAL:

LICENSED PROFESSIONAL ENGINEER
WILLIAM H. TOWNE
NO. 045961
OF THE STATE OF NEW YORK
LICENSE NUMBER 045961 EXPIRATION DATE 09/31/2027

ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:



PROJECT:

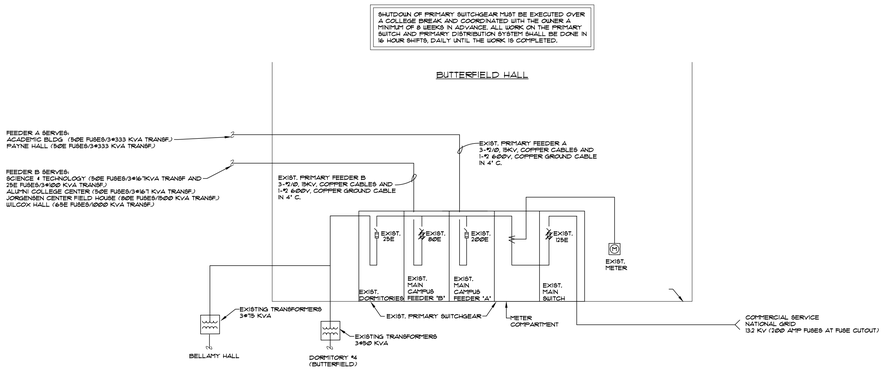
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

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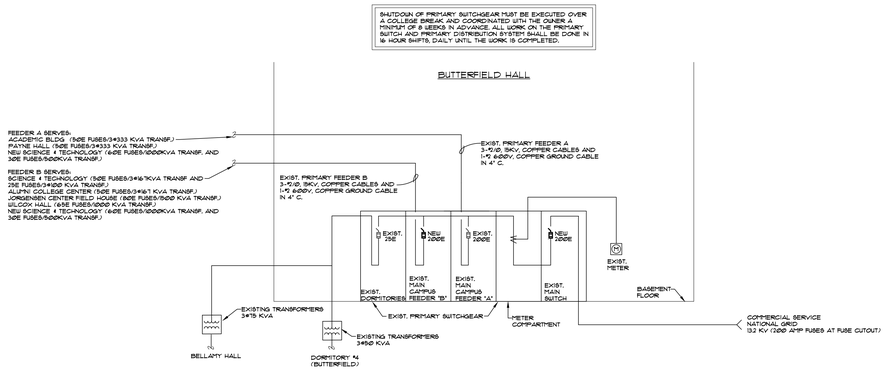
PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-602



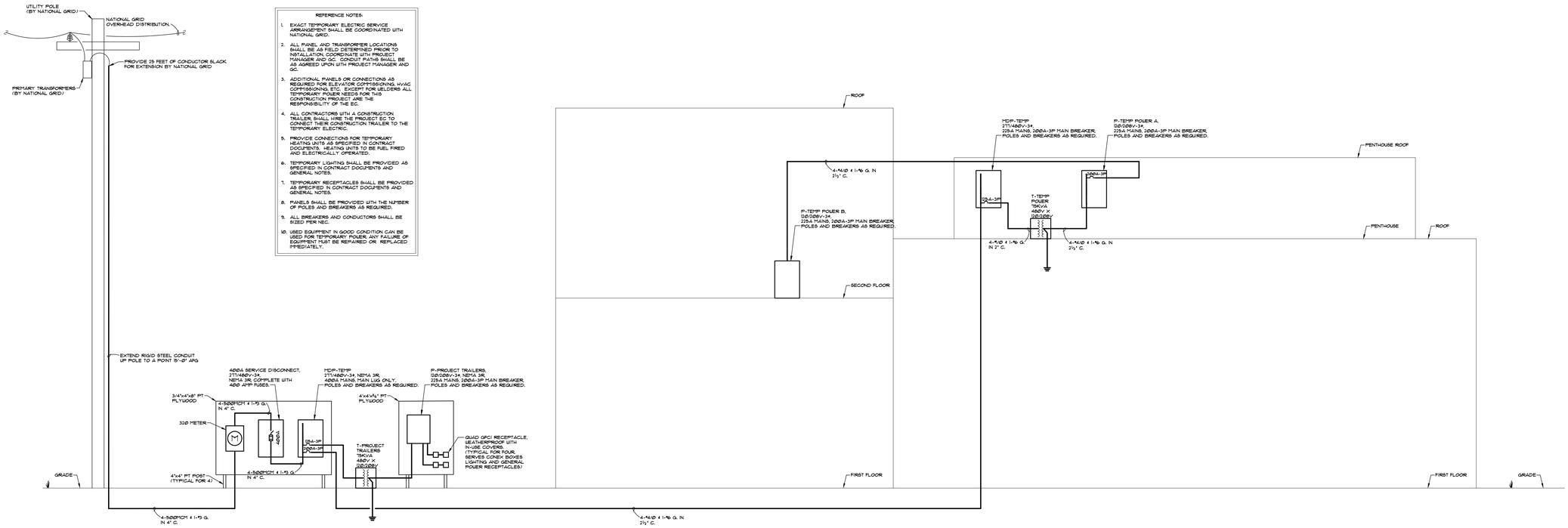
PRIMARY SWITCHGEAR - REMOVALS

SCALE: NONE



PRIMARY SWITCHGEAR

SCALE: NONE



TEMPORARY ELECTRIC ONE LINE POWER DIAGRAM

SCALE: NONE

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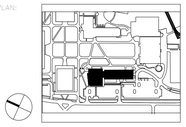
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NO.	DATE	COMMENTS
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KEY PLAN:



PROJECT:

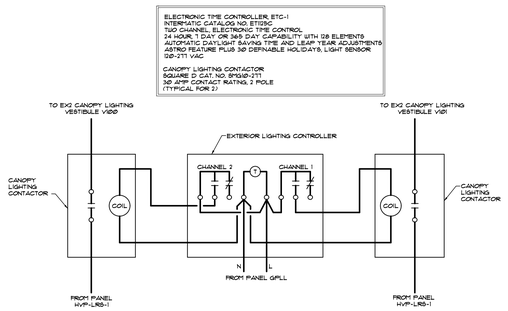
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

TEMPORARY ELECTRIC ONE LINE POWER DIAGRAM

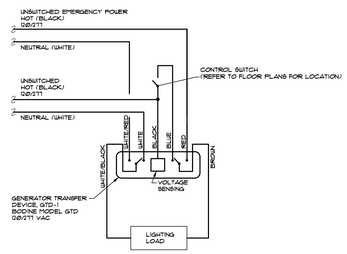
PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

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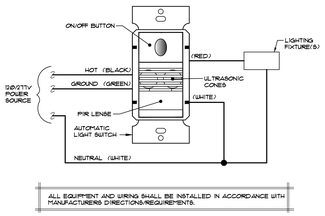
EXTERIOR LIGHTING CONTROL SCHEMATIC

SCALE: NONE



GENERATOR TRANSFER DEVICE CONTROL WIRING DIAGRAM, GTD-1

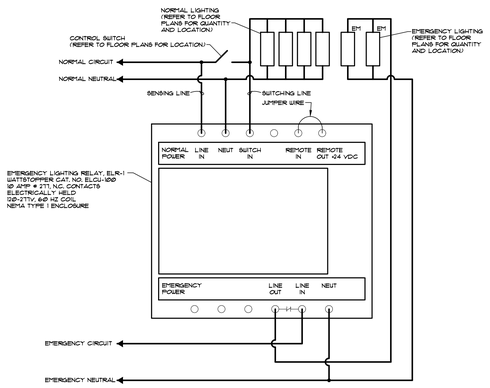
SCALE: NONE



ALL EQUIPMENT AND WIRING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS/REQUIREMENTS.

VACANCY SENSOR WIRING SCHEMATIC (VS-1)

SCALE: NONE



EMERGENCY LIGHTING RELAY CONTROL WIRING DIAGRAM, ELR-1

SCALE: NONE

LIGHTING CONTROL SYSTEM

LIGHT FIXTURES SHALL HAVE A DIGITAL LIGHTING CONTROL SYSTEM AND BE PROGRAMMED AS FOLLOWS:

1. THE SYSTEM SHALL BE FIELD PROGRAMMED FOR VACANCY OPERATION (MANUAL ON) UNLESS OTHERWISE NOTED. ALL LIGHTING SHALL BE AUTOMATICALLY TURNED OFF 30 MINUTES AFTER ALL OCCUPANTS HAVE HAVE LEFT THE SPACE.
2. PUBLIC CORRIDORS, STAIRWAYS, RESTROOMS, PRIMARY BUILDING ENTRANCE AREAS, AND LOBBIES:
   A. PROGRAMMED FOR FULL AUTOMATIC-ON CONTROL.
   B. PROGRAMMED THRU THE DIGITAL LIGHTING CONTROL SYSTEM FOR A LIGHTING LEVEL OF 9 FOOT CANDLES.
3. OFFICES, CLASSROOOMS, AND LABS WITH SINGLE ZONE OPERATION: PROGRAMMED FOR MANUAL ON OPERATION WITH A LIGHTING LEVEL OF 30 FOOT CANDLES. THE LIGHT SYSTEM OUTPUT SHALL BE CAPABLE OF BEING LOWERED OR RAISED THRU THE DIMMING SWITCH(ES) WITHIN THE SPACE.
4. TYPICAL CLASSROOMS AND LABS WITH TWO ZONE OPERATION:
   A. PROGRAMMED FOR TWO ZONE OPERATION WHERE INDICATED. ZONE 2 SHALL BE THE LIGHT FIXTURES PARALLEL TO THE TEACHING WALL AND ZONE 1 SHALL BE THE REMAINING LIGHT FIXTURES. CLASSROOMS WITH A 4-SCENE DIMMING WALL STATION SHALL BE PROGRAMMED AS FOLLOWS:
      1) SCENE 1, ZONE 1 AND ZONE 2 LIGHT FIXTURES PROGRAMMED TO 75% OUTPUT WITH 30-FOOT CANDLES MAINTAINED.
      2) SCENE 2, ZONE 1 AND ZONE LIGHT FIXTURES PROGRAMMED TO 25% OUTPUT.
      3) SCENE 3, ZONE 1 AND ZONE 2 LIGHT FIXTURES PROGRAMMED TO 25% OUTPUT.
      4) SCENE 4, ZONE 2 LIGHT FIXTURES PROGRAMMED TO 0-FOOT CANDLES AND ZONE 1 PROGRAMMED TO 30-FOOTCANDLES.
5. DIGITAL CONTROL LIGHTING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE. ALL EQUIPMENT AND WIRING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS/REQUIREMENTS. SYSTEM PROGRAMMING SHALL BE EXECUTED BY THE LIGHTING CONTROL SYSTEMS MANUFACTURER'S FACTORY AUTHORIZED PERSONNEL UNDER THE DIRECTION OF THE ARCHITECT/ ENGINEER.

FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS	VOLTAGE	MOUNTING	REMARKS	MANUFACTURER
L1A	COMPACT FLOODLIGHT LITH MOUNTING CANOPY, MARINE GRADE A360 ALUMINUM ALLOY, PURE ANODIZED ALUMINUM REFLECTOR, SILICONE OPTICS, UET LOCATION, GLARE SHIELD, 0-10V DIMMING, CUSTOM COLOR	72.0U LED (7656 LUMENS)	120-277	SURFACE (WALL)		BEGA CAT. NO. 8TT149-K39-CUS-B-TOTSB
L1B	30" WALL GRAZER, FLEXIBLE AND COMPACT, 12" X .094" MOUNTING CHANNEL, SURFACE MOUNT CLIPS, 0-10V DIMMING,	110U LED (1340 LUMENS PER FOOT)	24	SURFACE (WALL)	REMOTE DRIVER PER MANUFACTURERS REQUIREMENTS	EL LIGHTING CAT. NO. EL FLEXPOINT GEN2 EB-10-30INDK
L1S	INDIRECT WALL SCOPE, 15"W X 16.75"LX 7.25" H, DIE-CAST ALUMINUM HOUSING, HIGH IMPACT PROTECTIVE LENS, WIDE FORWARD THROU LENSES, 127 EXTENDED ARM, 0-10V DIMMING, CUSTOM COLOR	100U LED (1420LUMENS)	120-277	SURFACE (WALL)		ORGATECH LIGHTING CAT. NO. 3400-16-LUDD-35-U2-D1-AX-CU-U
L2D	DHT, Ø6.9" SIDE X 12'-5" LONG X 0.28" HIGH, UNIFORM FROSTED LENS, EXTRUDED ALUMINUM EXTRUSION, POLYCARBONATE LENS, ADJUSTABLE MOUNTING CLIPS, WHITE	59.2U LED (350 LUMENS PER FOOT)	277	SURFACE (DISPLAY CASE)	96U @ 0-10V DIMMABLE ELECTRONIC POWER SUPPLY	LLI ARCHITECTURAL LIGHTING CAT. NO. LLI-THN-UF-48U-2D-35K-24V-120-ADJ-WTH LLI-PS-DED10-D96U-24V-KO
L2I	UNDER CABINET LIGHT, 7" DEEP, ANTIMICROBIAL FINISH, WHITE	9.4U LED (670 LUMENS)	120-277	SURFACE (UNDER CABINET)		FAIL-BAPE CAT. NO. UCI-24-HJ36PUNVTBP
L2Z	4" VAPOR TIGHT, INJECTION MOLDED FIBERGLASS BODY, CHEMICAL RESISTANT FINISH, SMOOTH ACRYLIC FROSTED LENS, IP65, IP66, IP67, NEMA 4X, IK10, -40F TO 131F OPERATION, INTEGRAL OCCUPANCY SENSOR	61.0 U LED (8526 LUMENS)	120-277	PENDANT (STRUCTURE)	REFER TO DWG. A FOR WORK ASSOCIATED WITH THE SALT SHED	ILP LIGHTING CAT. NO. UT24-EL-U-40-840-SAPL-EM42-C T-GLOS-MPEB-HLBS2
L3I	IMPACT ELITE LED SMALL TRAPEZOID LUMINAIRE, 12" LONG, 500K LIGHTSQUARE WITH 16 LEDS AND TYPE V FORWARD THROU OPTICS, HOUSE SIDE SHIELD, DIMMING OCCUPANCY SENSOR WITH BLUETOOTH INTERFACE	1-342 U LED (4534 LUMENS)	120-277	SURFACE (WALL)	COLOR SELECTED BY ARCHITECT	MCGRAW-EDISON CAT. NO. IST-SAIC-830-U-T4FT-HBS-SMB2
L3Z	RECTANGULAR WALL LIGHT, 7.28" LONG X 3.15" HIGH X 4.75" DEEP, OPEN FACEPLATE, HEAVY DUTY CAST ALUMINUM HOUSING, TEMPERED GLASS LENS, ASYMMETRICAL LIGHT DISTRIBUTION, IP65 RATED, COLOR SELECTED BY ARCHITECT	6.0 U LED	120-277	RECESSED (WALL)		ABOVE ALL LIGHTING CAT. NO. SWLL06-07-3Z0-RM1-OP-SWU L-TIN-PBOX
L4S	DEPI EXTERIOR PENDANT, 48" DIAMETER, 21" TALL, 30" LONG CENTER PENDANT, 120-277V, PREMIUM POWER COAT, 3.7 TO 16 V DIMMING, REMOTE DRIVER, BLUE FINISH	26U LED (7500 LUMENS)	120-277	PENDANT (CEILING)	OVERSIZED CANOPY	G LIGHTING CAT. NO. GL-5362-D-BL-3
L4X	GALN GALLEON II, DIE-CAST ALUMINUM HOUSING 4 HEAT SINK, 0-10V DIMMING, -40°C TO 40°C OPERATION, 2.5 YR, TGIC POLYESTER POWDER COAT FINISH, TYPE IV WIDFILL CONTROL DISTRIBUTION, LIGHT SQUARE TRIM PLATE, MOTION SENSOR FOR DIMMING OPERATION, BLACK	244.0 U LED (16,026 LUMENS EACH)	120-277	POLE MOUNT	PROGRAMMED FOR DIMMING OPERATION, MAPCO CAT. NO. RTA125DB-64ABA (4" DIA. TAPERED ALUMINUM POLE 29 FEET TALL, BLACK FINISH)	MCGRAW-EDISON CAT. NO. GALN-SA1-B-T4D-U-SWD-BK-LCF-MS-D-PLA@ WITH MAPCO POLE NOTED
L5S	IMPACT ELITE LED SMALL TRAPEZOID LUMINAIRE, 18" CRI, 3500K LIGHTSQUARE WITH 16 LEDS AND TYPE T4U THROU OPTICS, HOUSE SIDE SHIELD,	1-261 U LED (7,139 LUMENS)	120-277	SURFACE (WALL)	COLOR SELECTED BY ARCHITECT	MCGRAW-EDISON CAT. NO. IST-SAIC-830-U-T4U-HBS
L6S	GPC GALLEON PEDESTRIAN COMPANION, DIE-CAST ALUMINUM HOUSING 4 HEAT SINK, 0-10V DIMMING, -40°C TO 40°C OPERATION, 2.5 YR, TGIC POLYESTER POWDER COAT FINISH, TYPE IV WIDFILL CONTROL DISTRIBUTION, LIGHT SQUARE TRIM PLATE, MOTION SENSOR FOR DIMMING OPERATION, BLACK	34.0 U LED (4,874 LUMENS EACH)	120-277	POLE MOUNT	PROGRAMMED FOR DIMMING OPERATION, MAPCO CAT. NO. RTA10DB-64ABA (4" DIA. TAPERED ALUMINUM , 10 FEET TALL, BLACK FINISH)	MCGRAW-EDISON CAT. NO. GPC-SA1-A-T4E-U-SL2-BK-DTH-LCF-MS-D@PLS@ WITH MAPCO POLE NOTED
EX1	EDGELIT EXIT SIGN, SINGLE FACE, INJECTION MOLDED HIGH -IMPACT ACRYLIC PANEL, BRUSHED ALUMINUM HOUSING, RED LETTERS, CLEAR BACKGROUND, FIELD-INSTALLED CHEVRONS	1.4U LED	120-277	SURFACE (STRUCTRUE)	CEILING, WALL, END OR PENDANT MOUNTING AS FIELD REQUIRED	SURE-LITES CATALOG NO. EDX-1R
EX2	EDGELIT EXIT SIGN, DUAL FACE, INJECTION MOLDED HIGH -IMPACT ACRYLIC PANEL, BRUSHED ALUMINUM HOUSING, RED LETTERS, MIRROR BACKGROUND, FIELD-INSTALLED CHEVRONS	1.4U LED	120-277	SURFACE (STRUCTRUE)	CEILING, WALL, END OR PENDANT MOUNTING AS FIELD REQUIRED	SURE-LITES CATALOG NO. EDX-2R
EX3	EXIT SIGN, SINGLE FACE, DIE CAST ALUMINUM HOUSING, RED LETTERS, WHITE	1.0U LED	120-277	SURFACE (STRUCTRUE)	CEILING, WALL, END OR PENDANT MOUNTING AS FIELD REQUIRED	SURE-LITES CATALOG NO. CX-S1UH
EX4	EXIT SIGN, DUAL FACE, DIE CAST ALUMINUM HOUSING, RED LETTERS, WHITE	1.0U LED	120-277	SURFACE (STRUCTRUE)	CEILING, WALL, END OR PENDANT MOUNTING AS FIELD REQUIRED	SURE-LITES CATALOG NO. CX-S2UH

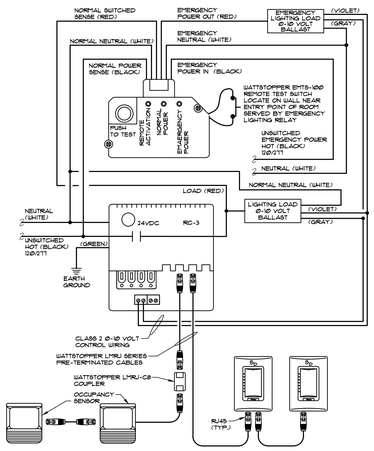
REFERENCE NOTES

1. LED LAMPS SHALL HAVE A CORRELATED COLOR TEMPERATURE OF 3500 KELVINS (WARM WHITE)
2. LED FLAT PANEL LIGHTS WILL ONLY BE ACCEPTED FOR LIGHT FIXTURES SPECIFIED AS FLAT PANELS, AND ARE NOT AN EQUAL TO OTHER SPECIFIED LIGHT FIXTURES AND WILL NOT BE ACCEPTED AS A SUBSTITUTE. ANY SHOP DRAWING THAT CONTAINS ANY A FLAT PANEL AS AN ALTERNATE LIGHT ILL BE AUTOMATICALLY REJECTED.
3. PROVIDE LIGHTING BRANCH CIRCUIT JUNCTION BOX(ES) ATTACHED TO DECK/STEEL STRUCTURE. FLEXIBLE CONDUIT FIXTURE WHIP WITH 6'-0" ADDITIONAL LENGTH TO ALLOW FOR FIELD ADJUSTMENT (TIE-UP/UP TO FIXTURE SUPPORTS). FIXTURE TO FIXTURE WHIP(S) SHALL BE PROVIDED WITH 6'-0" ADDITIONAL CONDUIT LENGTH TO ALLOW FOR FIELD ADJUSTMENT
4. PROVIDE FIVE ADDITIONAL TYPE L1A LIGHT FIXTURES, FIVE ADDITIONAL TYPE L1B LIGHT FIXTURES, TEN ADDITIONAL TYPE L1C LIGHT FIXTURES, FIVE ADDITIONAL L2B LIGHT FIXTURES, FIVE ADDITIONAL L2C LIGHT FIXTURES, AND FIVE ADDITIONAL L3I LIGHT FIXTURES INCLUDE INSTALLATION, WIRING AND CONDUIT IN BID WHERE FIELD DIRECTED BY ARCHITECT/ENGINEER. LIGHT FIXTURES SHALL BE NOTED ON SHOP DRAWING AS SPARE UNITS TO BE DELIVERY TO THE JOB SITE FOR INSTALLATION AS FIELD DIRECTED.
5. ANY SUBSTITUTED LIGHT FIXTURE LUMEN OUTPUT SHALL BE EQUAL TO OR 10% MAXIMUM GREATER THAN THE SPECIFIED LUMEN OUTPUT FOR EACH LIGHT FIXTURE NOTED IN THE FIXTURE SCHEDULE.
6. PROVIDE TEN DRYWALL FRAME KITS FOR TYPE A LIGHTS AND FIVE DRYWALL FRAME KITS FOR TYPE B AND OR C LIGHTS.

FIXTURE SCHEDULE

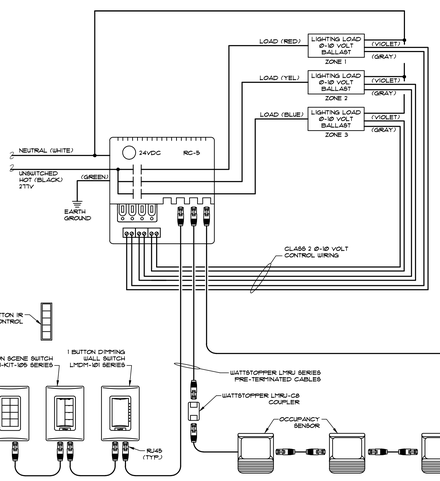
TYPE	DESCRIPTION	LAMPS	VOLTAGE	MOUNTING	REMARKS	MANUFACTURER
L1A	4' X 3 ½" WIDE X 4 ½" TALL REGOLO PENDANT, DIRECT, 20 GAUGE COLD ROLLED STEEL, EXTRUDED ALUMINUM SIDE RAILS, SATIN WHITE ACRYLIC LENS, WHITE, 0-10V DIMMING TO 10%	19.2U LED (1,843 LIFT)	120-277	PENDANT (STRUCTURE)		NULITE CATALOG NO. REP44-D-PRP09L38-UNV-D1I-UH-SR-U-24P-4
L1B	5' X 3 ½" WIDE X 4 ½" TALL REGOLO PENDANT, DIRECT, 20 GAUGE COLD ROLLED STEEL, EXTRUDED ALUMINUM SIDE RAILS, SATIN WHITE ACRYLIC LENS, WHITE, 0-10V DIMMING TO 10%	19.2U LED (1,843 LIFT)	120-277	PENDANT (STRUCTURE)		NULITE CATALOG NO. REP44-D-PRP09H38-UNV-D1I-UH-5
L1C	4' X 3 ½" WIDE X 4 ½" TALL REGOLO SURFACE, DIRECT, 20 GAUGE COLD ROLLED STEEL, EXTRUDED ALUMINUM SIDE RAILS, SATIN WHITE ACRYLIC LENS, WHITE, 0-10V DIMMING TO 10%	19.2U LED (1,843 LIFT)	120-277	SURFACE		NULITE CATALOG NO. RSX4-D-PRP09L38-UNV-D1I-UH-4
L2A	4' X 4' WIDE REGOLO LAY-IN, PENDANT, GOLD ROLLED STEEL EXTRUDED ALUMINUM TRIM RAILS, SATIN WHITE ACRYLIC LENS, WHITE, 0-10V DIMMING TO 10%	18.0U LED (1.43 LIFT)	120-277	RECESSED (LAY-IN CEILING)		NULITE CATALOG NO. RSX4-D-PRP09H38-UNV-D1I-UH-4
L2B	4' X 4' WIDE REGOLO LAY-IN, PENDANT, GOLD ROLLED STEEL EXTRUDED ALUMINUM TRIM RAILS, SATIN WHITE ACRYLIC LENS, WHITE, 0-10V DIMMING TO 10%	31.6U LED (1.13 LIFT)	120-277	RECESSED (LAY-IN CEILING)		NULITE CATALOG NO. RSX4-D-PRP09H38-UNV-D1I-UH-4
L2C	6' X 4' WIDE REGOLO LAY-IN, PENDANT, GOLD ROLLED STEEL EXTRUDED ALUMINUM TRIM RAILS, SATIN WHITE ACRYLIC LENS, WHITE, 0-10V DIMMING TO 10%	42.6U LED (1.1 LIFT)	120-277	RECESSED (LAY-IN CEILING)		NULITE CATALOG NO. RSX4-D-PRP09H38-UNV-D1I-UH-6
L2D	8' X 4' WIDE REGOLO LAY-IN, PENDANT, GOLD ROLLED STEEL EXTRUDED ALUMINUM TRIM RAILS, SATIN WHITE ACRYLIC LENS, WHITE, 0-10V DIMMING TO 10%	84.8U LED (10.6 LIFT)	120-277	RECESSED (LAY-IN CEILING)		NULITE CATALOG NO. RSX4-D-PRP09H38-UNV-D1I-UH-8
L2E	8' X 4' WIDE REGOLO LAY-IN, PENDANT, GOLD ROLLED STEEL EXTRUDED ALUMINUM TRIM RAILS, SATIN WHITE ACRYLIC LENS, WHITE, 0-10V DIMMING TO 10%	98.4U LED (12.3 LIFT)	120-277	RECESSED (LAY-IN CEILING)		NULITE CATALOG NO. RSX4-D-PRP09H38-UNV-D1I-UH-8
L3A	4' UNG RAIL EXTRUDED AND MACHINED A6063 ALUMINUM CONSTRUCTION, UNITE BAFFLE WITH EDGESOFT OPTICS, CLEAR ANODIZED FINISH.	19.2U LED (1.8LIFT)	120-277	PENDANT (STRUCTURE)		VODE CATALOG NO. VDT-UG-48-Z-LO-38-UB-AL
L3B	8' UNG RAIL EXTRUDED AND MACHINED A6063 ALUMINUM CONSTRUCTION, UNITE BAFFLE WITH EDGESOFT OPTICS, CLEAR ANODIZED FINISH.	76.8U LED (7.8LIFT)	120-277	PENDANT (STRUCTURE)		VODE CATALOG NO. VDT-UG-642-Z-LO-38-UB-AL
L3C	6' UNG RAIL EXTRUDED AND MACHINED A6063 ALUMINUM CONSTRUCTION, UNITE BAFFLE WITH EDGESOFT OPTICS, CLEAR ANODIZED FINISH.	22.8U LED (1.8LIFT)	120-277	PENDANT (STRUCTURE)		VODE CATALOG NO. VDT-UG-72-Z-LO-38-UB-AL
L4	4' HIGH ABUSE/VANDAL RESISTANT, Ø.125" CLEAR POLYCARBONATE PRISMATIC LENS, COLD-ROLLED STEEL HOUSING	23.6U LED (2,643 LUMENS)	120-277	SURFACE (WALL)		FAIL-BAPE CATALOG NO. FVS4LM-4-LO-38-UNV-EDCI
L5A	2' X 2' LED BACKLIT PANEL, 2 ½" THICK, STEEL HOUSING, ACRYLIC MICRO-OPTICS, EXTRUDED ALUMINUM DOOR FRAME,	22.0W LED (2,713 LUMENS)	120-277	RECESSED (LAY-IN CEILING)	SELECTABLE LUMEN SWITCH- LOW OUTPUT	METALUX CATALOG NO. 2GQ73839C
L5B	2' X 2' LED BACKLIT PANEL, 2 ½" THICK, STEEL HOUSING, ACRYLIC MICRO-OPTICS, EXTRUDED ALUMINUM DOOR FRAME,	34.0U LED, (3681 LUMENS)	120-277	RECESSED (LAY-IN CEILING)	SELECTABLE LUMEN SWITCH- MEDIUM OUTPUT	METALUX CATALOG NO. 2GQ73839C
L5C	2' X 2' LED BACKLIT PANEL, 2 ½" THICK, STEEL HOUSING, ACRYLIC MICRO-OPTICS, EXTRUDED ALUMINUM DOOR FRAME,	40.6U LED (4,780 LUMENS)	120-277	RECESSED (LAY-IN CEILING)	SELECTABLE LUMEN SWITCH- HIGH OUTPUT	METALUX CATALOG NO. 2GQ73839C
L6	4" DIAMETER DOWNLIGHT, SEMI-SPECULAR CLEAR CONICAL REFLECTOR, WIDE TO DEEP-BEE BEAM ANGLE, 0-10V DIMMING TO 10%	6.3U LED (560 LUMENS)	120-277	RECESSED (CEILING)		HALO COMMERCIAL CATALOG NO. HC4BCW927-MFL4@2583541UDH
L7	16' DIAMETER LOU BAY, VR SERIES, PRISMATIC DOME ACRYLIC REFLECTORS, WHITE, 0-10V DIMMING TO 10%	55.4U LED (7,000 LUMENS)	120-277	PENDANT (STRUCTURE)	STEM LENGTH AS FIELD DETERMINED	ATLANTIC LIGHTING CATALOG NO. LHB16-VR55-35K-UH-L16PR A
L7A	12' DIAMETER LOU BAY, VR SERIES, PRISMATIC DOME ACRYLIC REFLECTORS, WHITE, 0-10V DIMMING TO 10%	35.0U LED (4,000 LUMENS)	120-277	PENDANT (STRUCTURE)	STEM LENGTH AS FIELD DETERMINED	ATLANTIC LIGHTING CATALOG NO. LHB12-VR35-35K-UH-L12PRA
L7B	16' DIAMETER LOU BAY, VR SERIES, PRISMATIC DOME ACRYLIC REFLECTORS, WHITE, 0-10V DIMMING TO 10%	70.0U LED (8,000 LUMENS)	120-277	PENDANT (STRUCTURE)	STEM LENGTH AS FIELD DETERMINED	ATLANTIC LIGHTING CATALOG NO. LHB16-VR70-35K-UH-L16PR A
L7C	16' DIAMETER LOU BAY, VR SERIES, PRISMATIC DOME ACRYLIC REFLECTORS, WHITE, 0-10V DIMMING TO 10%	89.0U LED (10,000 LUMENS)	120-277	PENDANT (STRUCTURE)	STEM LENGTH AS FIELD DETERMINED	ATLANTIC LIGHTING CATALOG NO. LHB16-VR89-35K-UH-L16PR A
L7D	16' DIAMETER LOU BAY, VR SERIES, PRISMATIC DOME ACRYLIC REFLECTORS, WHITE, 0-10V DIMMING TO 10%	106.0U LED (12,000 LUMENS)	120-277	PENDANT (STRUCTURE)	STEM LENGTH AS FIELD DETERMINED	ATLANTIC LIGHTING CATALOG NO. LHB16-VR106-35K-UH-L16PR A
L8A	4.5" DIAMETER CYLINDER, WHITE NON-GLOW REVEAL, EXTRUDED ALUMINUM UPPER HOUSING, DIE-CAST ALUMINUM LOUER REFLECTOR, VERY WIDE FLOOD, WHITE, 0-10V DIMMING TO 1%	7.0U LED, (1,000 LUMENS)	120-277	PENDANT (CEILING)	STEM LENGTH AS FIELD DETERMINED	FOCAL POINT CATALOG NO. FLCY-4NDLWR1000D_35KCQUV 5CLILHSDNTVUFLCDUH
L8B	4.5" DIAMETER CYLINDER, WHITE NON-GLOW REVEAL, EXTRUDED ALUMINUM UPPER HOUSING, DIE-CAST ALUMINUM LOUER REFLECTOR, VERY WIDE FLOOD, WHITE, 0-10V DIMMING TO 1%	18.0U LED, (1,805 LUMENS)	120-277	PENDANT (CEILING)	STEM LENGTH AS FIELD DETERMINED	FOCAL POINT CATALOG NO. FLCY-4NDLWR2000D_35KCQUV 5CLILHSDNTVUFLCDUH
L8C	4.5" DIAMETER CYLINDER, WHITE NON-GLOW REVEAL, EXTRUDED ALUMINUM UPPER HOUSING, DIE-CAST ALUMINUM LOUER REFLECTOR, VERY WIDE FLOOD, WHITE, 0-10V DIMMING TO 1%	24U LED, (2,874 LUMENS)	120-277	PENDANT (CEILING)	STEM LENGTH AS FIELD DETERMINED	FOCAL POINT CATALOG NO. FLCY-4NDLWR3000D_35KCQUV 5CLILHSDNTVUFLCDUH
L9A	4' REGOLO, NARROU RECESSED PERIMETER SLOT, FORMED COLD ROLLED STEEL HOUSING, STRETTO OPTICS REFRACTIVE LENS, UNITE, 0-10V DIMMING TO 10%	18.50U LED (499 LUMENS PER FOOT)	120-277	SURFACE (CEILING)		NULITE CATALOG NO. RSX4-D9L38-UNV-D-IC-N-T-4
L9B	8' REGOLO, NARROU RECESSED PERIMETER SLOT, FORMED COLD ROLLED STEEL HOUSING, STRETTO OPTICS REFRACTIVE LENS, UNITE, 0-10V DIMMING TO 10%	23.65U LED (499 LUMENS PER FOOT)	120-277	SURFACE (CEILING)		NULITE CATALOG NO. RSX4-D9L38-UNV-D-IC-N-T-8
L9C	6' REGOLO, NARROU RECESSED PERIMETER SLOT, FORMED COLD ROLLED STEEL HOUSING, STRETTO OPTICS REFRACTIVE LENS, UNITE, 0-10V DIMMING TO 10%	28.38U LED (499 LUMENS PER FOOT)	120-277	SURFACE (CEILING)		NULITE CATALOG NO. RSX4-D9L38-UNV-D-IC-N-T-6
L9D	8' REGOLO, NARROU RECESSED PERIMETER SLOT, FORMED COLD ROLLED STEEL HOUSING, STRETTO OPTICS REFRACTIVE LENS, UNITE, 0-10V DIMMING TO 10%	37.84U LED (499 LUMENS PER FOOT)	120-277	SURFACE (CEILING)		NULITE CATALOG NO. RSX4-D9L38-UNV-D-IC-N-T-8
L10A	36" DIAMETER X 12" HIGH L1A DECORATIVE PET FELT SHADE, CONVEX LENS, Ø.125" THICK UNITE ACRYLIC LENS, UNITE, 0-10V DIMMING TO 10%	48U LED (4000 LUMENS)	120-277	PENDANT (CEILING)	STEM LENGTH AS FIELD DETERMINED	FOCAL POINT CATALOG NO. DLA1-36S-CRV1-18-F8DL-33-CX-4000L-35K-IC-UNV-LDI-DLA1-UH
L10B	36" DIAMETER X 18" HIGH L1A DECORATIVE PET FELT SHADE, CONVEX LENS, Ø.125" THICK UNITE ACRYLIC LENS, UNITE, 0-10V DIMMING TO 10%	48U LED (4000 LUMENS)	120-277	PENDANT (CEILING)	STEM LENGTH AS FIELD DETERMINED	FOCAL POINT CATALOG NO. DLA1-36S-CRV1-18-F8DL-33-CX-4000L-35K-IC-UNV-LDI-DLA1-UH
L10C	48" DIAMETER X 12" HIGH L1A DECORATIVE PET FELT SHADE, CONVEX LENS, Ø.125" THICK UNITE ACRYLIC LENS, UNITE, 0-10V DIMMING TO 10%	77U LED (7,000 LUMENS)	120-277	PENDANT (CEILING)	STEM LENGTH AS FIELD DETERMINED	FOCAL POINT CATALOG NO. DLA1-48S-CRV1-2-F8DL-44-CX-7000L-35K-IC-UNV-LDI-DLA1-UH
L10D	48" DIAMETER X 18" HIGH L1A DECORATIVE PET FELT SHADE, CONVEX LENS, Ø.125" THICK UNITE ACRYLIC LENS, UNITE, 0-10V DIMMING TO 10%	77U LED (7,000 LUMENS)	120-277	PENDANT (CEILING)	STEM LENGTH AS FIELD DETERMINED	FOCAL POINT CATALOG NO. DLA1-48S-CRV1-18-F8DL-44-CX-7000L-35K-IC-UNV-LDI-DLA1-UH
L11	16" DIAMETER ENVIROPRO LOU BAY, MARINE GRADE DIE-CAST ALUMINUM HOUSING, CLEAR PRISMATIC ACRYLIC REFRACTOR, IP66/UET LOCATION, MATTE UNITE, 0-10V DIPPING TO 10%	106.6U LED (9,376 LUMENS)	120-277	PENDANT (STRUCTURE)	STEM LENGTH AS FIELD DETERMINED	KENALL CATALOG NO. EPL16-13-E-PPT-CA-GPU-42L-35K8-DCC-DV
L11A	12" DIAMETER ENVIROPRO LOU BAY, MARINE GRADE DIE-CAST ALUMINUM HOUSING, CLEAR PRISMATIC ACRYLIC REFRACTOR, IP66/UET LOCATION, MATTE UNITE, 0-10V DIPPING TO 10%	42U LED (5,145 LUMENS)	120-277	PENDANT (STRUCTURE)	STEM LENGTH AS FIELD DETERMINED	KENALL CATALOG NO. EPL12-13-E-PPT-CA-GPU-42L-35K8-DCC-DV
L12A	4' LENSED SQUARE STRIP LIGHT, DIE-FORMED COLD ROLLED STEEL, FULL FROSTED UIDE DISTRIBUTION LENS, UNITE	17.1U LED (1,859 LUMENS)	120-277	PENDANT (STRUCTURE)		METALUX CATALOG NO. 4SNX-126L-ALU-UNV-CC83-CDI
L12B	4' LENSED SQUARE STRIP LIGHT, DIE-FORMED COLD ROLLED STEEL, FULL FROSTED UIDE DISTRIBUTION LENS, UNITE	16.4U LED (2,454 LUMENS)	120-277	PENDANT (STRUCTURE)		METALUX CATALOG NO. 4SNX-126L-ALU-UNV-CC83-CDI
L12C	4' LENSED SQUARE STRIP LIGHT, DIE-FORMED COLD ROLLED STEEL, FULL FROSTED UIDE DISTRIBUTION LENS, UNITE	24.0U LED (3,949 LUMENS)	120-277	PENDANT (STRUCTURE)		METALUX CATALOG NO. 4SNX-378L-ALU-UNV-CC83-CDI
L12D	4' LENSED SQUARE STRIP LIGHT, DIE-FORMED COLD ROLLED STEEL, FULL FROSTED UIDE DISTRIBUTION LENS, UNITE	35.0U LED (4,805 LUMENS)	120-277	PENDANT (STRUCTURE)		METALUX CATALOG NO. 4SNX-518L-ALU-UNV-CC83-CDI
L13	8" DIAMETER CYLINDER, 20" TALL, HANDSPUN ALUMINUM HOUSING, SPECULAR CLEAR REFLECTOR, UNITE, 0-10V DIPPING TO 10%	23.7U LED (2,606 LUMENS)	120-277	PENDANT (CEILING)	STEM LENGTH AS FIELD DETERMINED	ATLANTIC LIGHTING CATALOG NO. SLED12108-SYL30-35K-CL
L13A	8" DIAMETER CYLINDER, 20" TALL, HANDSPUN ALUMINUM HOUSING, SPECULAR CLEAR REFLECTOR, UNITE, 0-10V DIPPING TO 10%	40.0U LED (4,360 LUMENS)	120-277	PENDANT (CEILING)	STEM LENGTH AS FIELD DETERMINED	ATLANTIC LIGHTING CATALOG NO. SLED12108-VR40-35K-UH3-UH -SCR
L14	VAPORPROOF, DIE CAST ALUMINUM CONSTRUCTION, DIE CAST GUARD, FROSTED GLOBE, HIGH-TEMPERATURE SILICONE GASKETS, UET LOCATION	26.5 U LED (1,135 LUMENS)	120/277	SURFACE (WALL)		RAB CAT. NO. VX26LED20NDG
L15	3 ½" DIAMETER CIRCULAR SCOPE STEP LIGHT, 3" DEEP, DIE-CAST ALUMINUM CONSTRUCTION, ELECTRONIC LOW VOLTAGE DIPPER, CUSTOM COLOR	3.9U LED	120	RECESSED (WALL)		LMG LIGHTING CAT. NO. UL-LED3ND-C-CUSTOM
L16-A	5'-4" LONG LED PCB CHAIN MODULE, FLEXIBLEHINGED, 2" THICK SATIN OPAL DIFFUSER, COMPLETE WITH TRANSFORMERS AND ACCESSORIES	29.3 U. LED (3888LUMENS)	24	RECESSED (SOFFIT)	REMOTE DRIVER	INTRA-LIGHTING CAT. NO. 835-36PCB-36PCB-36PCB-36PCB -10PCB

ALL EQUIPMENT AND WIRING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS/REQUIREMENTS.



OCCUPANCY SENSOR WIRING SCHEMATIC (OS-8)

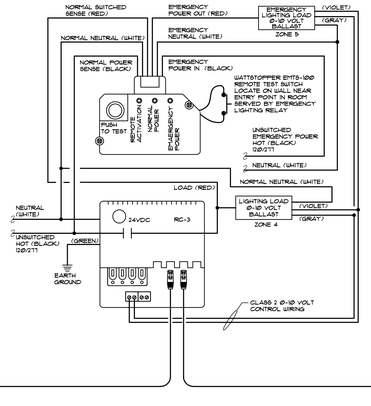
SCALE: NONE

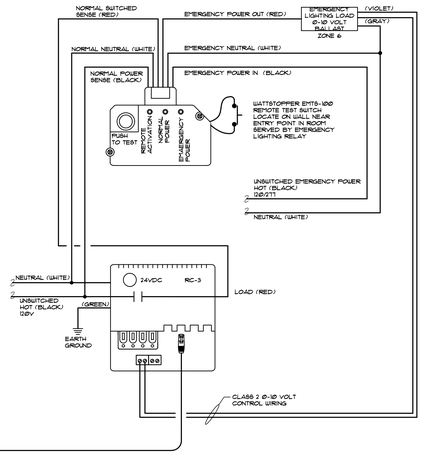


ALL EQUIPMENT AND WIRING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS/REQUIREMENTS.

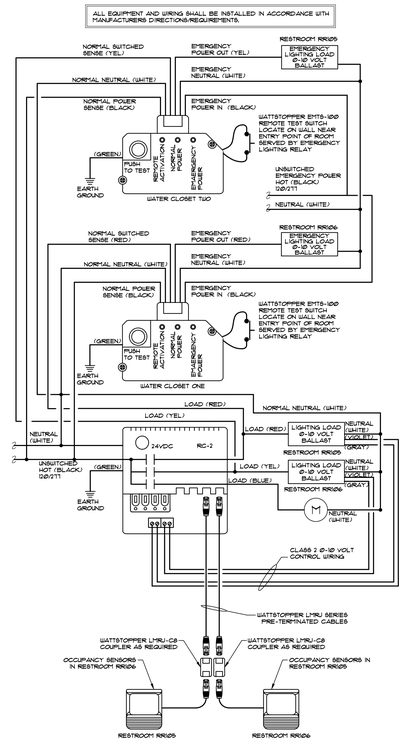
OCCUPANCY SENSOR WIRING SCHEMATIC (OS-13)

SCALE: NONE





ALL EQUIPMENT AND WIRING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS/REQUIREMENTS.



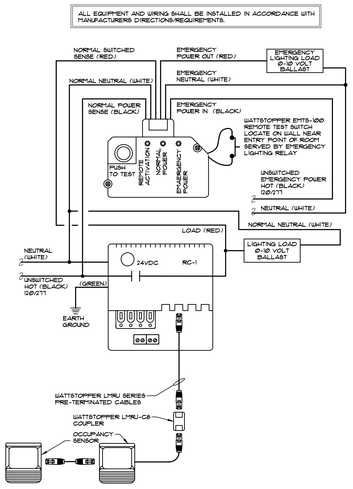
RELAY NUMBER THREE SHALL ENERGIZE EXHAUST FAN AND SHALL BE PROGRAMMED TO TURN ON WITH EITHER RELAY NUMBER ONE OR RELAY NUMBER TWO.

ALL EQUIPMENT AND WIRING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS/REQUIREMENTS.

OCCUPANCY SENSOR WIRING SCHEMATIC (OS-12)

SCALE: NONE (OS-11 SHALL BE SIMILAR)

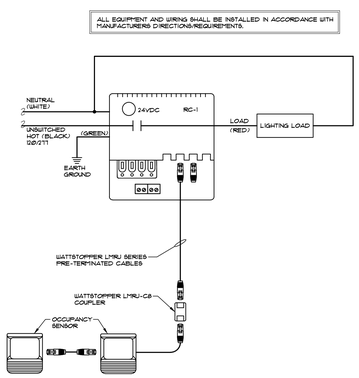
ALL EQUIPMENT AND WIRING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS/REQUIREMENTS.



OCCUPANCY SENSOR WIRING SCHEMATIC (OS-7)

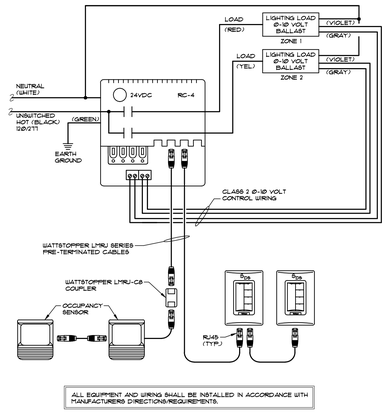
SCALE: NONE (OS-11 SHALL BE SIMILAR)

ALL EQUIPMENT AND WIRING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS/REQUIREMENTS.



OCCUPANCY SENSOR WIRING SCHEMATIC (OS-6)

SCALE: NONE

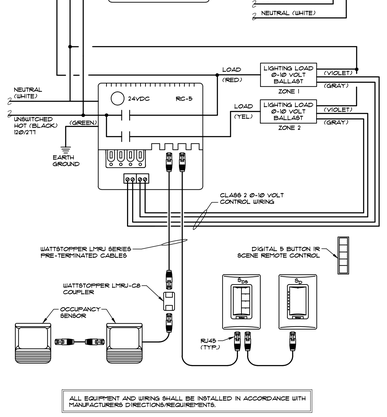


ALL EQUIPMENT AND WIRING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS/REQUIREMENTS.

OCCUPANCY SENSOR WIRING SCHEMATIC (OS-5)

SCALE: NONE (OS-10 SHALL BE SIMILAR)

ALL EQUIPMENT AND WIRING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS/REQUIREMENTS.

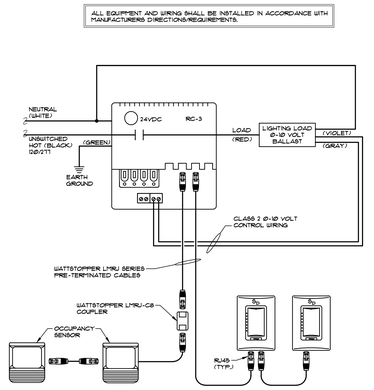


ALL EQUIPMENT AND WIRING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS/REQUIREMENTS.

OCCUPANCY SENSOR WIRING SCHEMATIC (OS-3)

SCALE: NONE (OS-4 IS SIMILAR)

ALL EQUIPMENT AND WIRING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS/REQUIREMENTS.



OCCUPANCY SENSOR WIRING SCHEMATIC (OS-1)

SCALE: NONE (OS-2 SHALL BE SIMILAR)

ONEIDA COUNTY NEW YORK 1798

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MOHAWK VALLEY COMMUNITY COLLEGE

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(315) 792-5400

ARCHITECT:

MARCH ASSOCIATES ARCHITECTS & PLANNERS, PC
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Mitchell Giurgola
Mitchell Giurgola Architects LLP
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New York, New York 10036
212 663 4000

STRUCTURAL ENGINEER:
Interactive Engineering Solutions, PC
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Rome, NY 13440
315 339 7855

MEP ENGINEER:
Towne Engineering
18 South Street
Utica, NY 13501
315 733 9000

SITE | CIVIL ENGINEER:
Appel Osborne Landscape Architecture
102 West Division Street, Suite 100
Syracuse, NY 13204
315 478 1022

SEAL:

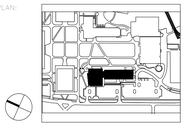
LICENSED PROFESSIONAL ENGINEER — WILLIAM H. TOWNE — LICENSE NO. 045880 — STATE OF NEW YORK — COA # 100184 EXPIRATION DATE 2025 | 2027

ISSUE/REVISION		
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

KEY PLAN:



PLAN NORTH

PROJECT:

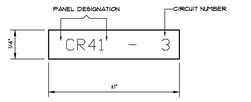
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

DETAILS

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

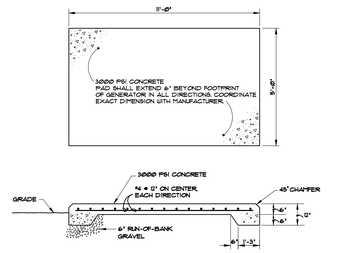
E-702



ALL EXTERIOR BRANCH CIRCUITS (SWITCHES, RECEPTACLES, ETC.) SHALL BE LABELED WITH LAMINATED RED PHENOLIC ENGRAVED NAMEPLATE WITH WHITE LETTERS, SCREW MOUNT LABELS AND ALL INTERIOR BRANCH CIRCUITS SHALL BE LABELED WITH LAMINATED TAPE WITH WHITE LETTERS ON RED BACKGROUND.

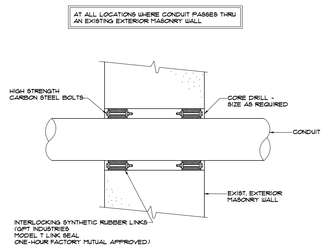
EMERGENCY BRANCH CIRCUIT LABELS

SCALE: NONE



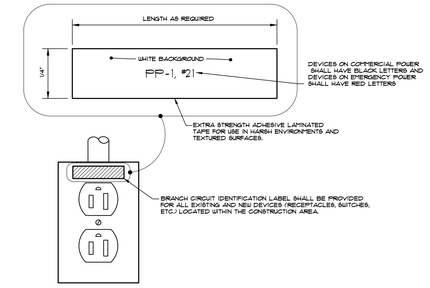
GENERATOR EQUIPMENT PAD

SCALE: NONE



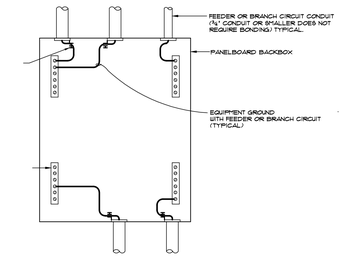
CONDUIT PENETRATION THRU EXTERIOR WALL

SCALE: NONE



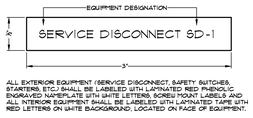
COVER PLATE LABEL DETAIL

SCALE: NONE



BONDING REQUIREMENTS AT PANELBOARDS

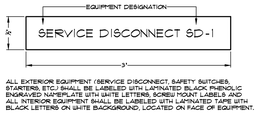
SCALE: NONE



ALL EXTERIOR EQUIPMENT (SERVICE DISCONNECT, SAFETY SWITCHES, STARTERS, ETC.) SHALL BE LABELED WITH LAMINATED RED PHENOLIC ENGRAVED NAMEPLATE WITH WHITE LETTERS, SCREW MOUNT LABELS AND ALL INTERIOR EQUIPMENT SHALL BE LABELED WITH LAMINATED TAPE WITH RED LETTERS ON WHITE BACKGROUND, LOCATED ON FACE OF EQUIPMENT.

EMERGENCY EQUIPMENT LABELS

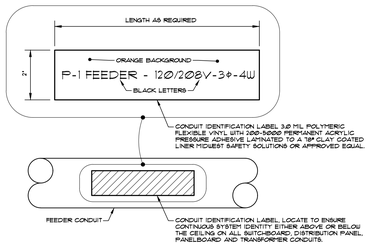
SCALE: NONE



ALL EXTERIOR EQUIPMENT (SERVICE DISCONNECT, SAFETY SWITCHES, STARTERS, ETC.) SHALL BE LABELED WITH LAMINATED BLACK PHENOLIC ENGRAVED NAMEPLATE WITH WHITE LETTERS, SCREW MOUNT LABELS AND ALL INTERIOR EQUIPMENT SHALL BE LABELED WITH LAMINATED TAPE WITH BLACK LETTERS ON WHITE BACKGROUND, LOCATED ON FACE OF EQUIPMENT.

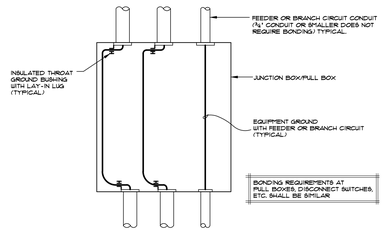
EQUIPMENT LABELS

SCALE: NONE



CONDUIT LABEL DETAIL

SCALE: NONE



BONDING REQUIREMENTS AT JUNCTION BOXES

SCALE: NONE



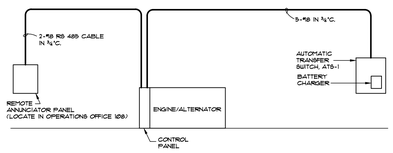
PANELBOARD ARC FLASH LABEL

SCALE: NONE

THE FOLLOWING ALARMS SHALL BE TERMINATED AT THE MAIN DISTRIBUTION FRAME, (MDF) BY THE EC.

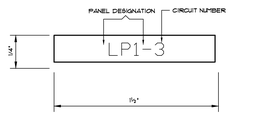
a. HIGH BATTERY VOLTAGE
b. LOW BATTERY VOLTAGE
c. NORMAL BATTERY VOLTAGE
d. UTILITY IN-SERVICE
e. E/A OPERATING
f. E/A IN-SERVICE
g. LOW LUBRICATING OIL PRESSURE PREALARM
h. LOW LUBRICATING OIL PRESSURE
i. HIGH ENGINE TEMPERATURE PREALARM
j. HIGH ENGINE TEMPERATURE
k. LOW ENGINE TEMPERATURE
l. OVERCRANK
m. OVERSPEED
n. SELECTOR SWITCH NOT IN AUTO-POSITION
o. BATTERY CHARGER MALFUNTION
p. LOW FUEL STORAGE TANK
q. LOW FUEL DAY TANK

CONTROL WIRING QUANTITIES NOTED ARE FOR GENERIC INSTALLATION AND SHALL BE COORDINATED WITH SPECIFIC ENGINE/ALTERNATOR MANUFACTURER BEFORE COMMENCING INSTALLATION.



EMERGENCY/STANDBY POWER SYSTEM ALARM SCHEMATIC

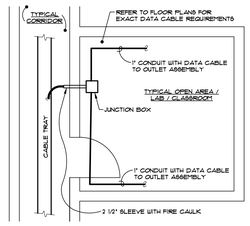
SCALE: NONE



ALL EXTERIOR BRANCH CIRCUITS (SWITCHES, RECEPTACLES, ETC.) SHALL BE LABELED WITH LAMINATED BLACK PHENOLIC ENGRAVED NAMEPLATE WITH WHITE LETTERS, SCREW MOUNT LABELS AND ALL INTERIOR BRANCH CIRCUITS SHALL BE LABELED WITH LAMINATED TAPE WITH BLACK LETTERS ON WHITE BACKGROUND.

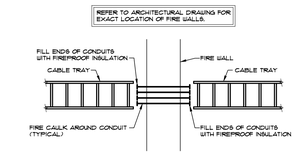
BRANCH CIRCUIT LABELS

SCALE: NONE



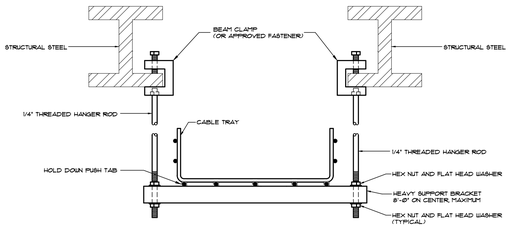
LAB / CLASSROOM CABLE TRAY DETAIL

SCALE: NONE



CABLE TRAY DETAIL AT FIRE WALLS

SCALE: NONE

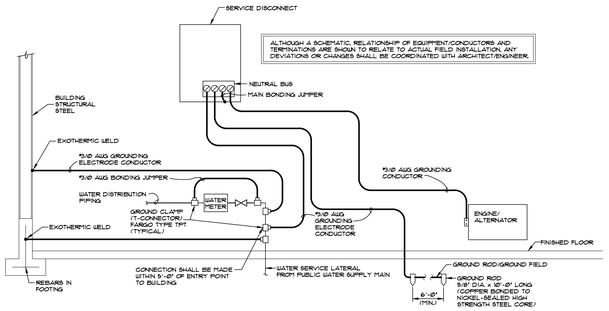


CABLE TRAY DETAIL SHED

SCALE: NONE

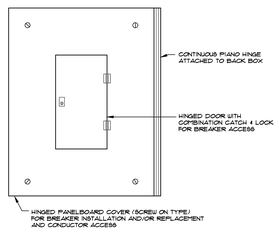
CABLE TRAY SCHEDULE								
UNIT NUMBER	MANUFACTURER	SERIES	CATALOG NO.	MATERIAL	TYPE	WIDTH	HEIGHT	LOAD LBS. / FT.	MOUNTING
CT-1	B-LINE	FLEXTRAY	FT4X8	ELECTROPLATED ZNC GALVANIZING WITH BLACK POLIDER COAT FINISH	WIRE BASKET	8"	4"	61 (MINIMUM)	ABOVE THE FLOOR
CT-2	B-LINE	FLEXTRAY	FT 4X12	ELECTROPLATED ZNC GALVANIZING WITH BLACK POLIDER COAT FINISH	WIRE BASKET	12"	4"	61 (MINIMUM)	ABOVE THE FLOOR
CT-3	B-LINE	FLEXTRAY	FT 2X4	ELECTROPLATED ZNC GALVANIZING WITH BLACK POLIDER COAT FINISH	WIRE BASKET	4"	2"	61 (MINIMUM)	ABOVE THE FLOOR

REFERENCE NOTES:
1. PROVIDE LENGTHS AS SHOWN ON FLOOR PLANS.
2. PROVIDE ALL ACCESSORIES NECESSARY FOR A TOTAL SYSTEM.
3. SUPPORT SPAN SHALL BE A MAXIMUM OF 7'-0" ON CENTER.
4. REMOVE PAINT AT ALL SPLICE CONTACT POINTS TO MEET CL/CSA AND ASTM A64-1.



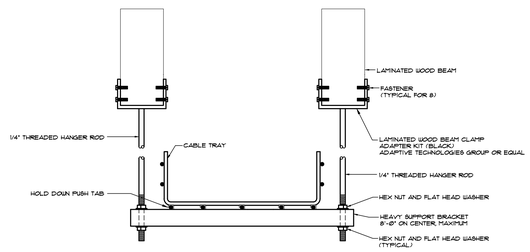
GROUNDING SYSTEM SCHEMATIC

SCALE: NONE



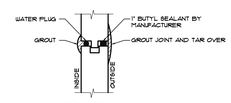
PANELBOARD COVER

SCALE: NONE



CABLE TRAY DETAIL HEAD

SCALE: NONE



KEYWAY JOINT

PRIMARY MANHOLE NOTES:

1. PRE-CAST CONCRETE MANHOLE WITH 28 DAY CONCRETE COMPRESSIVE STRENGTH OF 4,000 PSI.

2. DESIGNED IN ACCORDANCE WITH ASTM C857-87, "STANDARD PRACTICE FOR MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRE-CAST CONCRETE UTILITY STRUCTURES", WHEEL LOADING SHALL BE HS-20.

3. MANUFACTURED IN ACCORDANCE WITH ASTM C858-83, "STANDARD SPECIFICATIONS FOR UNDERGROUND PRE-CAST UTILITY STRUCTURES".

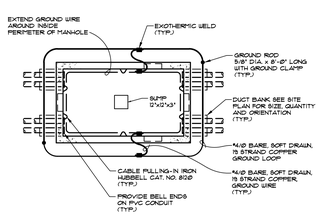
4. COAT ALL EXTERIOR SURFACES WITH CONSEAL CS-55 WATER BASED ACRYLIC COATING PER MANUFACTURER'S DIRECTIONS.

5. CABLE RACKS SHALL HAVE STANCHIONS (UNDERGROUND DEVICES INC. CATALOG NO. CR-48-B) AND FOUR HEAVY DUTY CABLE SUPPORT ARMS (UNDERGROUND DEVICES INC. CATALOG NO. CR36-B) MOUNT AT 4" APART PER MANUFACTURERS DIRECTIONS.

6. CABLE SUPPORT INSULATORS SHALL BE PORCELAIN WITH ROUND CORNERS AND EDGES TO PREVENT CABLE SHEATH DAMAGE AS MANUFACTURED BY CHANCE CATALOG NO. DE51.

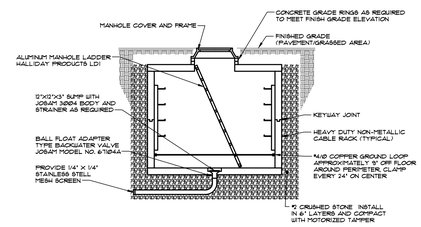
7. CABLE TIES SHALL BE HIGH STRENGTH UV, CORROSION RESISTANT BLACK NYLON WITH A MINIMUM LENGTH OF 11.9 INCHES AS MANUFACTURED BY ABB CATALOG NO. TY527TX.

8. MANHOLE COVER AND FRAME SHALL BE 36" DIAMETER OPENING, GRAY CAST IRON, ELECTRIC CAST INTO TOP SURFACE, H20 RATED AS MANUFACTURED BY NEENAH FOUNDRY COMPANY CATALOG NUMBER R-1642-D.



PRIMARY MANHOLE PLAN

SCALE: NONE



PRIMARY MANHOLE SECTION

SCALE: NONE

ONEIDA COUNTY NEW YORK 1798

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1101 SHERMAN DRIVE
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ARCHITECT:

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258 Genesee Street, Suite 300
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315 733 3344

Mitchell Giurgola

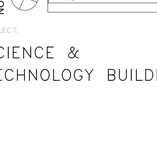
Mitchell Giurgola Architects LLP
830 Ninth Avenue, Suite 711
New York, New York 10036
212 663 4000

STRUCTURAL ENGINEER:
Interactive Engineering Solutions, PC
1721 Black River Blvd, Suite L-1
Rome, NY 13440
315 339 7855

MEP ENGINEER:
Towne Engineering
18 South Street
Utica, NY 13501
315 733 9000

SITE | CIVIL ENGINEER:
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102 West Division Street, Suite 100
Syracuse, NY 13204
315 476 1022

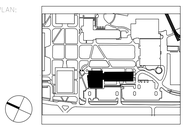
SEAL:



ISSUE/REVISION		
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:



PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

DETAILS

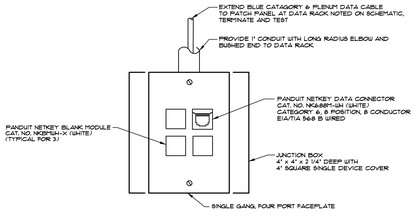
PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-703

NOTES:

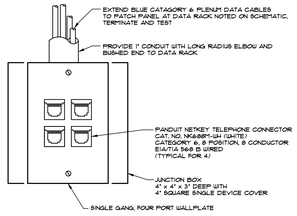
1. ALL DATA CABLES INSTALLED IN PARTITIONS AND OPEN AREAS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) WITH A MINIMUM DIAMETER OF 1".

2. PROVIDE STAINLESS STEEL FACE PLATES IN LAB AREAS AND WHITE THERMOPLASTIC FACE PLATES IN CLASSROOMS, OFFICES AND ANCILLARY SPACES.



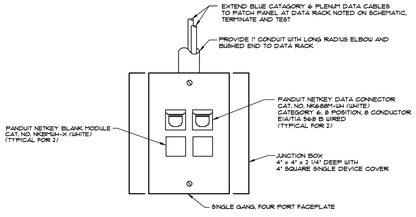
DATA OUTLET ASSEMBLY ▽

SCALE: NONE



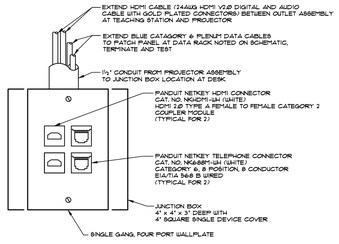
QUAD DATA OUTLET ASSEMBLY 4 ▽

SCALE: NONE



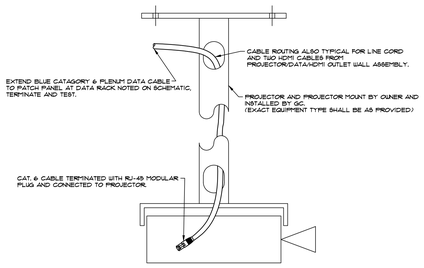
DUAL DATA OUTLET ASSEMBLY 2 ▽

SCALE: NONE



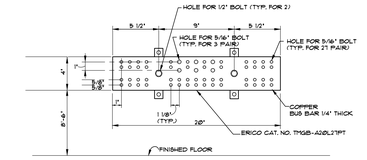
PROJECTOR/DATA/HDMI OUTLET WALL ASSEMBLY P ▽

SCALE: NONE

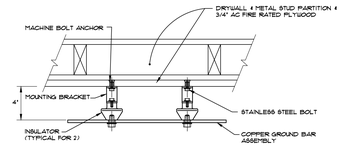


PROJECTOR/DATA/HDMI AT PROJECTOR P

SCALE: NONE



ELEVATION



PLAN

TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB)

SCALE: NONE

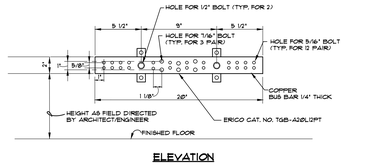
GROUNDING SYSTEM NOTES

1. ALL CONDUCTORS SHALL BE CONTINUOUS (WITHOUT SPLICES), STRANDED COPPER, TYPE THWN/THWN INSULATION (BARE CONDUCTORS NOT ALLOWED). RUN AS STRAIGHT AS POSSIBLE (NECESSARY CHANGES IN DIRECTION SHALL HAVE 12" RADIUS, MINIMUM).
2. SLEEVES PASSING THROUGH BUILDING WALLS AND FLOORS SHALL BE RIGID NON-METALIC CONDUIT.
3. MATING SURFACES OF CONNECTORS AND GROUND BAR SHALL BE CLEANED TO A BRIGHT FINISH WITH ANTI-OXIDATION COMPOUND APPLIED BEFORE BOLTING.
4. BOLTS, NUTS, WASHERS SHALL BE BRASS AS MANUFACTURED BY BURNDY, TYPE THH SERIES.
5. PROVIDE 7/8" DIAMETER BRASS DISC AT EACH END GROUND CONNECTION, ATTACH TO CONDUCTOR WITH STAINLESS STEEL 6 HOOK AND NYLON TY-RAP. EACH DISC SHALL BE STAMPED "DO NOT DISCONNECT" ON ONE SIDE AND DESTINATION LOCATION ON OTHER.
6. COMPRESSION LUGS, 2 HOLE / COLOR KEYED, SHALL BE MANUFACTURED BY BURNDY:

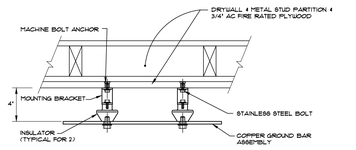
WIRE SIZE	CATALOG NUMBER
#6 AWG	YA6C-2TN
#4 AWG	YA4C-2TN
#2 AWG	YA2L-2TC38
#1/0 AWG	YA2BL-2TC38
#4/0 AWG	YA2BL-2TC38
350 MCM	YA35L-2TC38

7. CONDUCTOR SIZING REQUIREMENTS:

WIRE SIZE	CONDUCTOR LENGTH
#6 AWG	LESS THAN 13 FEET
#4 AWG	14 FEET TO 20 FEET
#3 AWG	21 FEET TO 26 FEET
#2 AWG	27 FEET TO 33 FEET
#1 AWG	34 FEET TO 41 FEET
#1/0 AWG	42 FEET TO 52 FEET
#2/0 AWG	53 FEET TO 66 FEET
#3/0 AWG	67 FEET TO 84 FEET
#4/0 AWG	85 FEET TO 105 FEET
250 MCM	106 FEET TO 125 FEET
300 MCM	126 FEET TO 149 FEET
350 MCM	150 FEET TO 174 FEET
500 MCM	175 FEET TO 250 FEET
600 MCM	251 FEET TO 300 FEET
750 MCM	301 FEET AND GREATER



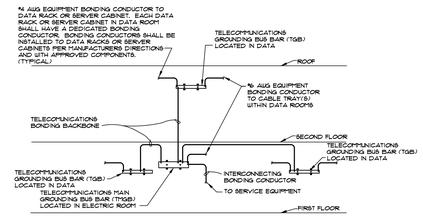
ELEVATION



PLAN

TELECOMMUNICATIONS GROUNDING BUSBAR (TGB)

SCALE: NONE



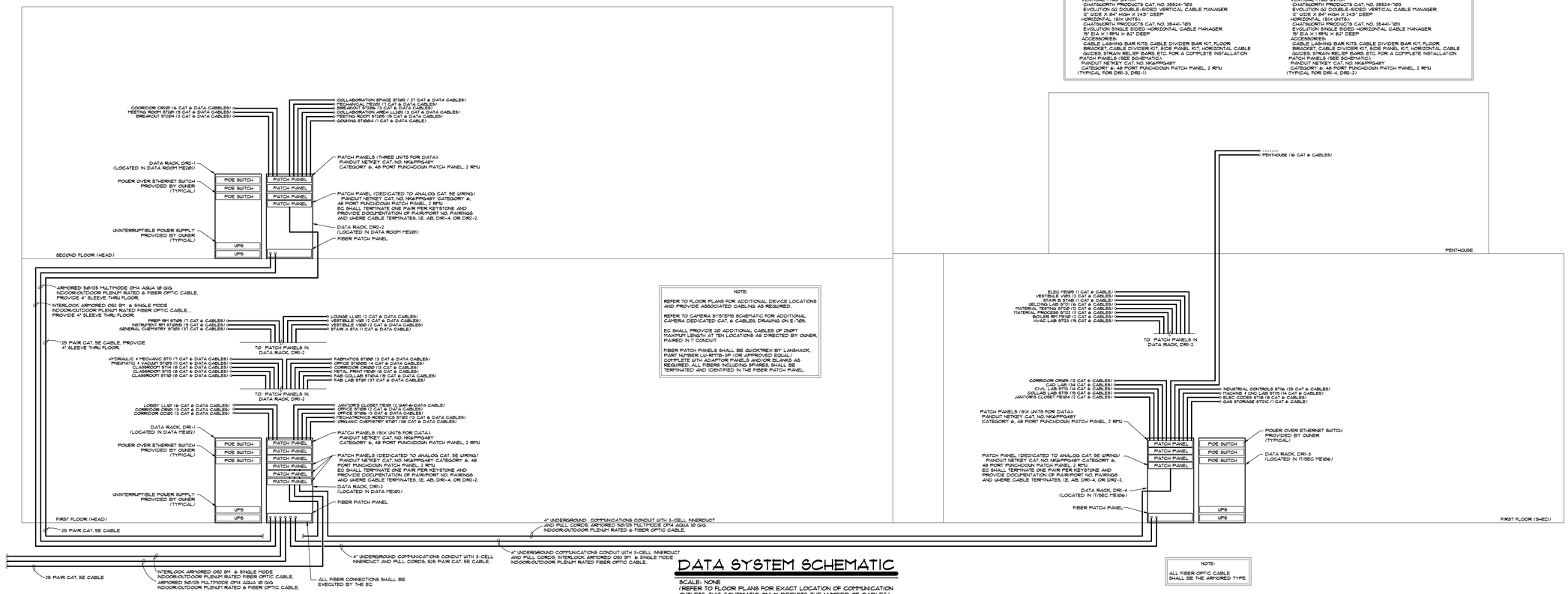
TELECOMMUNICATIONS GROUNDING SYSTEM SCHEMATIC

SCALE: NONE

EQUIPMENT NOTES:

DATA RACK, DR1-1
(LOCATED IN DATA ROOM1 ME120)
RACK:
CHATSWORTH PRODUCTS CAT. NO. 13254-703
19" WIDE X 84" HIGH WITH 45 RMU (4 POST ADJUSTABLE SERVER RACK)
CABLE MANAGERS:
VERTICAL (TWO UNITS):
CHATSWORTH PRODUCTS CAT. NO. 38524-703
EVOLUTION DOUBLE SIDED VERTICAL CABLE MANAGER
7" WIDE X 84" HIGH WITH 3.43" DEEP
HORIZONTAL (SIX UNITS):
CHATSWORTH PRODUCTS CAT. NO. 39441-703
EVOLUTION SINGLE SIDED HORIZONTAL CABLE MANAGER
19" EIA X 1 RMU X 8.7" DEEP
ACCESSORIES:
CABLE LASHING BAR KIT8, CABLE DIVIDER BAR KIT, FLOOR BRACKET, CABLE DIVIDER KIT, SIDE PANEL KIT, HORIZONTAL CABLE GUIDES, STRAIN RELIEF BARS, ETC. FOR A COMPLETE INSTALLATION
PATCH PANELS (SEE SCHEMATIC):
PANDUIT NETKEY CAT. NO. NK6PPG48Y
CATEGORY 6, 48 PORT PUNCHDOWN PATCH PANEL, 2 RMU
(TYPICAL FOR DR1-3, DR2-1)

DATA RACK, DR1-2
(LOCATED IN IT/SEC ME126, 4 DATA ME220)
RACK:
CHATSWORTH PRODUCTS CAT. NO. 46353-703 (2 POST RACK)
19" WIDE X 84" HIGH WITH 45 RMU
CABLE MANAGERS:
VERTICAL (TWO UNITS):
CHATSWORTH PRODUCTS CAT. NO. 38524-703
EVOLUTION DOUBLE SIDED VERTICAL CABLE MANAGER
7" WIDE X 84" HIGH WITH 3.43" DEEP
HORIZONTAL (SIX UNITS):
CHATSWORTH PRODUCTS CAT. NO. 39441-703
EVOLUTION SINGLE SIDED HORIZONTAL CABLE MANAGER
19" EIA X 1 RMU X 8.7" DEEP
ACCESSORIES:
CABLE LASHING BAR KIT8, CABLE DIVIDER BAR KIT, FLOOR BRACKET, CABLE DIVIDER KIT, SIDE PANEL KIT, HORIZONTAL CABLE GUIDES, STRAIN RELIEF BARS, ETC. FOR A COMPLETE INSTALLATION
PATCH PANELS (SEE SCHEMATIC):
PANDUIT NETKEY CAT. NO. NK6PPG48Y
CATEGORY 6, 48 PORT PUNCHDOWN PATCH PANEL, 2 RMU
(TYPICAL FOR DR1-4, DR2-2)



DATA SYSTEM SCHEMATIC

SCALE: NONE
(REFER TO FLOOR PLANS FOR EXACT LOCATION OF COMMUNICATION OUTLETS-THIS SCHEMATIC ONLY DEPICTS THE NUMBER OF CABLES)

NOTE:
REFER TO FLOOR PLANS FOR ADDITIONAL DEVICE LOCATIONS AND PROVIDE ASSOCIATED CABLING AS REQUIRED.

REFER TO CAMERA SYSTEMS SCHEMATIC FOR ADDITIONAL CAMERA DEDICATED CAT. 6 CABLES, DRAWING ON E-1109.

EC SHALL PROVIDE 2@ ADDITIONAL CABLES OF 25@FT MAXIMUM LENGTH AT TEN LOCATIONS AS DIRECTED BY OWNER. PAIRED IN 1" CONDUIT.

FIBER PATCH PANELS SHALL BE QUICKTREK BY LANSHACK, PART NUMBER LANFTTB-3P (OR APPROVED EQUAL) COMPLETE WITH ADAPTOR PANELS AND/OR BLANKS AS REQUIRED. ALL FIBERS INCLUDING SPARES, SHALL BE TERMINATED AND IDENTIFIED IN THE FIBER PATCH PANEL.

NOTE:
ALL FIBER OPTIC CABLE SHALL BE THE ARMORED TYPE.

ONEIDA COUNTY NEW YORK 1798

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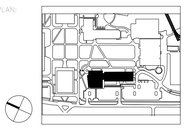
SEAL:



ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:



PLAN NORTH

PROJECT:
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:
DETAILS

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-704

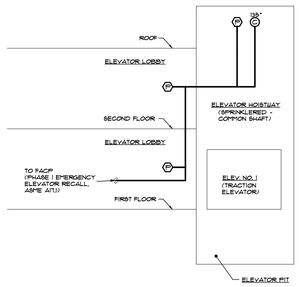
ELEVATOR RECALL OPERATION (PHASE I FIRE ALARM ACTIVATION)

1.) UPON THE ACTIVATION OF THE INITIATING DEVICE WITHIN THE ELEVATOR LOBBY OR THE DESIGNATED LEVEL (FIRST FLOOR), THE CAR SHALL RETURN TO AN ALTERNATE LEVEL APPROVED BY THE AUTHORITY HAVING JURISDICTION.

2.) UPON ACTIVATION OF THE INITIATING DEVICE WITHIN THE ELEVATOR LOBBY OF ANY FLOOR EXCEPT THE DESIGNATED LEVEL, THE CAR SHALL RETURN NONSTOP TO THE DESIGNATED LEVEL.

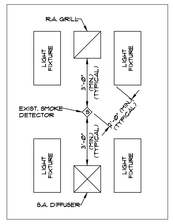
3.) UPON THE ACTIVATION OF ANY INITIATING DEVICE IN THE ELEVATOR HOISTWAY, THE CAR SHALL RETURN NONSTOP TO THE DESIGNATED LEVEL.

4.) UPON THE ACTIVATION OF ANY INITIATING DEVICE IN THE ELEVATOR SHAFT/PIT, THE CAR SHALL RETURN NONSTOP TO THE DESIGNATED LEVEL.



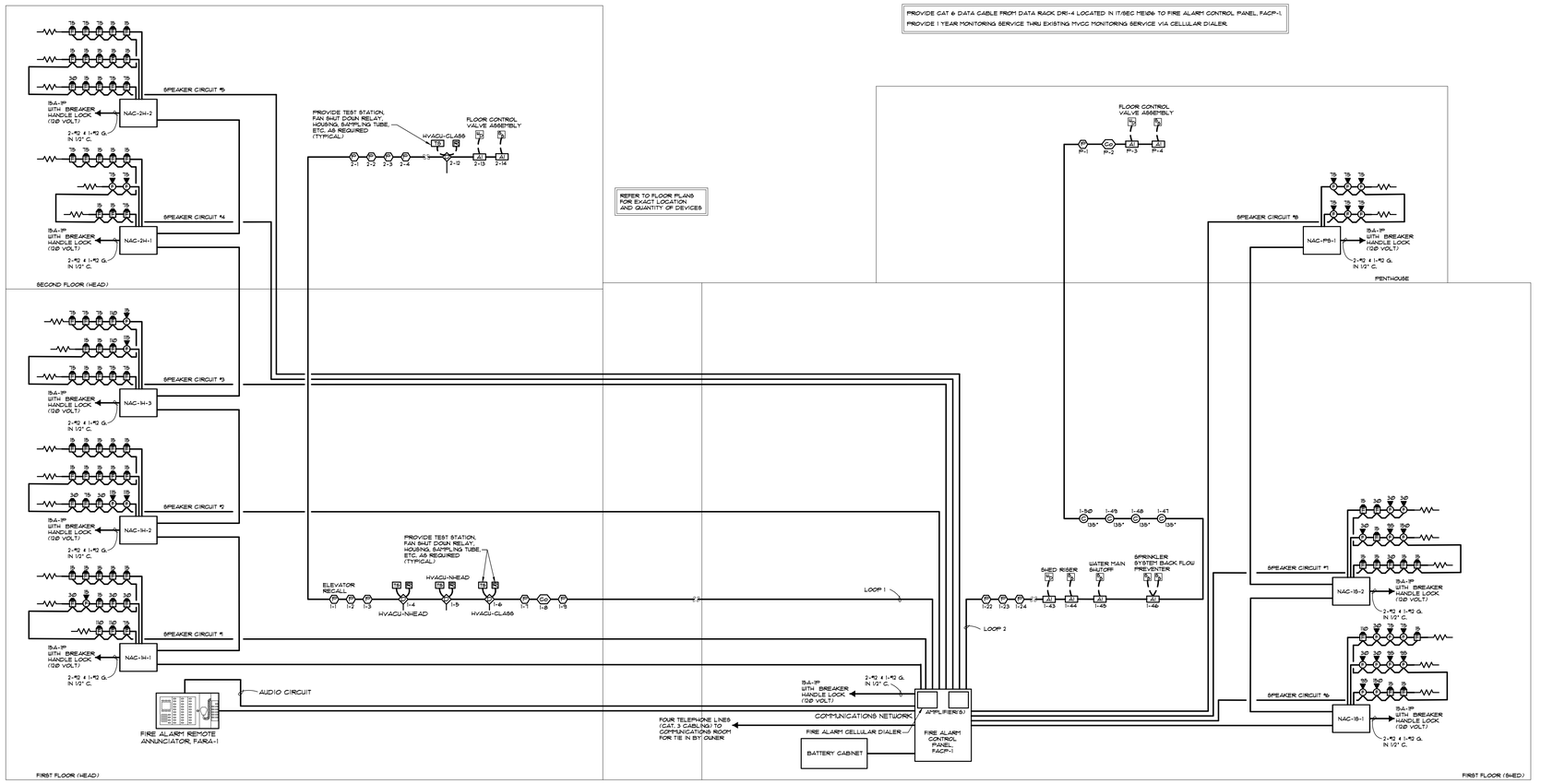
ELEVATOR RECALL/ SHUTDOWN SCHEMATIC

SCALE: NONE



SMOKE DETECTOR LOCATION DETAIL

SCALE: NONE



PROVIDE CAT 6 DATA CABLE FROM DATA RACK DRI-4 LOCATED IN IT/SEC MEIN6 TO FIRE ALARM CONTROL PANEL, FACP-1.
PROVIDE 1 YEAR MONITORING SERVICE THRU EXISTING MVCC MONITORING SERVICE VIA CELLULAR DIALER.

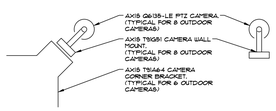
REFER TO FLOOR PLANS FOR EXACT LOCATION AND QUANTITY OF DEVICES

FIRE ALARM SYSTEM RISER

SCALE: NONE

FIRE ALARM SYSTEM RISER IS SHOWN FOR REFERENCE ONLY. EXACT CONFIGURATION OF SYSTEM SHALL BE PER MANUFACTURERS DIRECTIONS/REQUIREMENTS INSTALLED IN ACCORDANCE WITH NFPA RULES AND REGULATIONS.

ALL CAMERA EQUIPMENT BY OWNER, INSTALLED BY EC, CONFIGURED AND PROGRAMMED BY OWNERS VENDOR.



OUTDOOR CAMERA EQUIPMENT

SCALE: NONE

NOTE:
1. CAMERAS SHALL BE PROVIDED BY OWNER.
2. PROVIDE 25 FEET OF CONDUCTOR SLACK AT EACH CAMERA LOCATION, COIL UP FOR EXTENSION BY OWNER.
3. PROVIDE PANDUIT NETKEY CAT 6 RJ45 CONNECTOR ON END OF CABLE AT CAMERA AND TEST.

EQUIPMENT NOTES:

DATA RACK, DRI-3
(LOCATED IN IT/SEC MEIN6)
RACK:
CHATSWORTH PRODUCTS CAT. NO. 46383-X03 (2 POST RACK)
19" WIDE X 84" HIGH WITH 45 RMU
CABLE MANAGERS:
VERTICAL (TWO UNITS):
CHATSWORTH PRODUCTS CAT. NO. 38624-723
EVOLUTION G2 DOUBLE-SIDED VERTICAL CABLE MANAGER
12" WIDE X 84" HIGH X 24.5" DEEP
HORIZONTAL (SIX UNITS):
CHATSWORTH PRODUCTS CAT. NO. 38441-723
EVOLUTION SINGLE SIDED HORIZONTAL CABLE MANAGER
19" EIA X 1 RMU X 8.2" DEEP
ACCESSORIES:
CABLE RUNNING BAR KITS, CABLE DIVIDER BAR KIT, FLOOR BRACKET, CABLE DIVIDER KIT, SIDE PANEL KIT, HORIZONTAL CABLE GUIDES, STRAIN RELIEF BARS, ETC. FOR A COMPLETE INSTALLATION.
PATCH PANELS (FOUR UNITS):
PANDUIT NETKEY CAT. NO. NK6PP48Y
CATEGORY 6, 48 PORT PUNCHDOWN PATCH PANEL, 2 RMU
(TYPICAL FOR DRI-4)



CAMERA SYSTEMS SCHEMATIC

SCALE: NONE
(REFER TO FLOOR PLANS FOR EXACT LOCATION OF CAMERAS
THIS SCHEMATIC ONLY DEPICTS THE NUMBER OF CABLES)

ONEIDA COUNTY NEW YORK 1798

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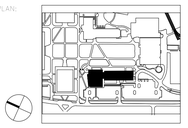
SEAL:



ISSUE/REVISION		
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KEY PLAN:

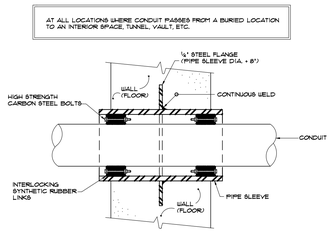


PROJECT:
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:
DETAILS

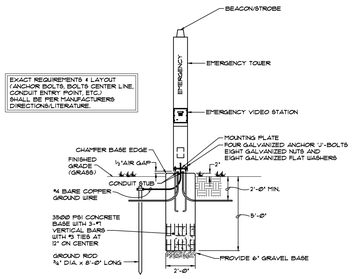
PROJECT NO: 23000 (4038) | DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION | SCALE: AS NOTED

E-705



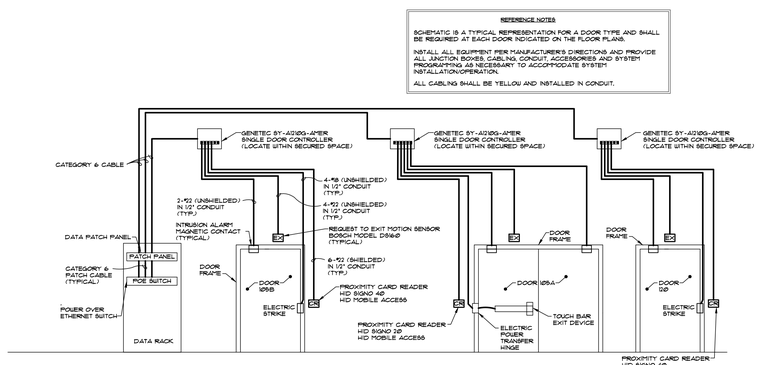
SLEEVE(S), WALLS AND FLOORS BELOW GRADE

SCALE: NONE



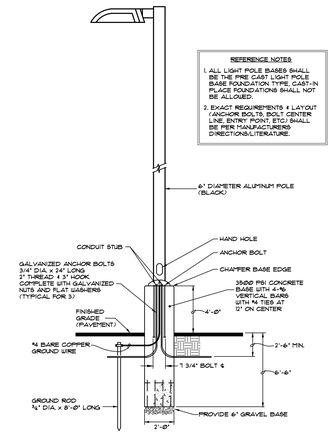
EMERGENCY VIDEO STATION TOWER ELEVATION

SCALE: NONE



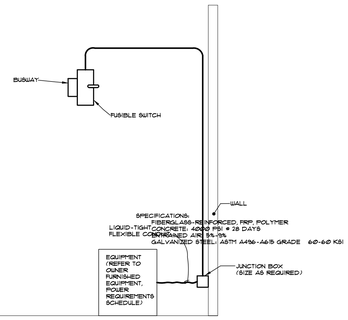
ACCESS CONTROL SYSTEM SCHEMATIC

SCALE: NONE



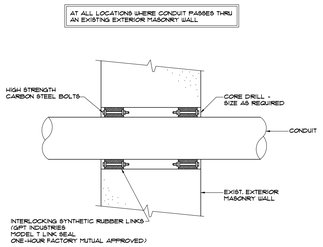
FIXTURE TYPE LX4 ELEVATION

SCALE: NONE



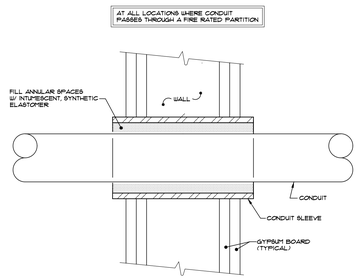
TYPICAL BUSWAY/ FUSIBLE SWITCH/ EQUIPMENT DETAIL

SCALE: NONE



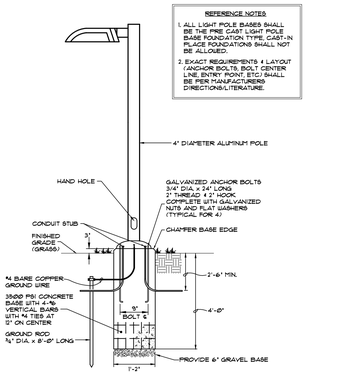
CONDUIT PENETRATION THRU EXTERIOR WALL

SCALE: NONE



SLEEVES AT FIRE PARTITIONS

SCALE: NONE

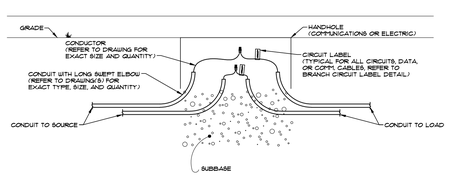


FIXTURE TYPE LX6 ELEVATION

SCALE: NONE

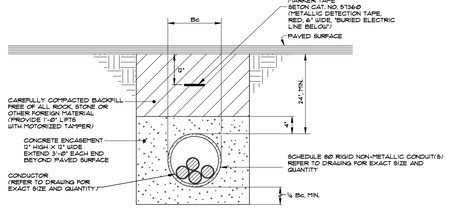
COMMUNICATIONS HANDHOLE

SCALE: NONE

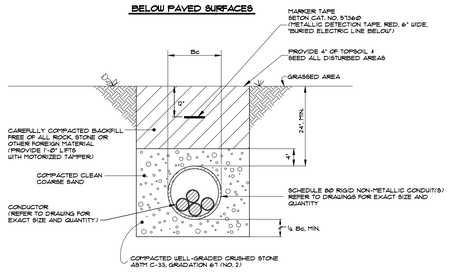


HANDHOLE CIRCUIT LABEL(S)

SCALE: NONE



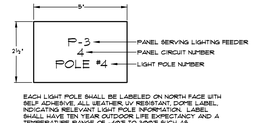
BELOW PAVED SURFACES



BELOW GRASSED AREAS

CONDUIT BEDDING

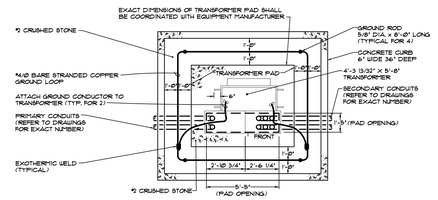
SCALE: NONE



EACH LIGHT POLE SHALL BE LABELED ON NORTH FACE WITH SELF ADHESIVE, ALL WEATHER, UV RESISTANT, DOME LABEL INDICATING RELEVANT LIGHT POLE INFORMATION. LABEL SHALL HAVE TEN YEAR OUTDOOR LIFE EXPECTANCY AND A TEMPERATURE RANGE OF -40°F TO 320°F SUCH AS WWW.TUFF-LABEL.COM LABELS. (SIZE IS APPROXIMATE)

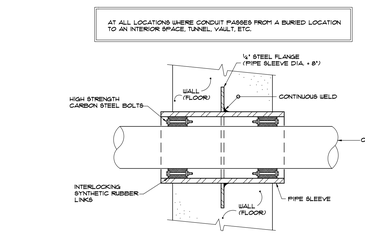
LIGHT POLE LABEL

SCALE: NONE



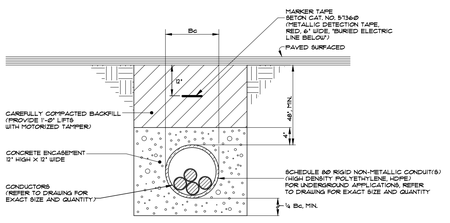
TRANSFORMER, T-LVSB1 PAD PLAN

SCALE: NONE



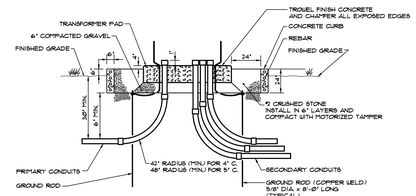
SLEEVE(S), WALLS AND FLOORS BELOW GRADE

SCALE: NONE



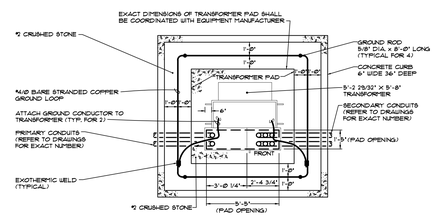
PRIMARY CONDUIT BEDDING (15 KV)

SCALE: NONE



SECTION THRU TRANSFORMER PAD

SCALE: NONE



PRIMARY TRANSFORMER, PT-1 PAD PLAN

SCALE: NONE PRIMARY TRANSFORMER PT-2 SHALL BE SIMILAR

ONEIDA COUNTY
1798
NEW YORK

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315 733 9000

SITE | CIVIL ENGINEER:
Appel Osborne Landscape Architecture
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Syracuse, NY 13204
315 476 1022

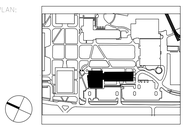
SEAL:

LICENSED PROFESSIONAL ENGINEER
WILLIAM H. TOWNE
No. 045890
COA # 100184 EXPIRATION DATE: JULY 31, 2027
UNIVERSITY OF THE STATE OF NEW YORK

ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:



PLAN NORTH

PROJECT:

SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:

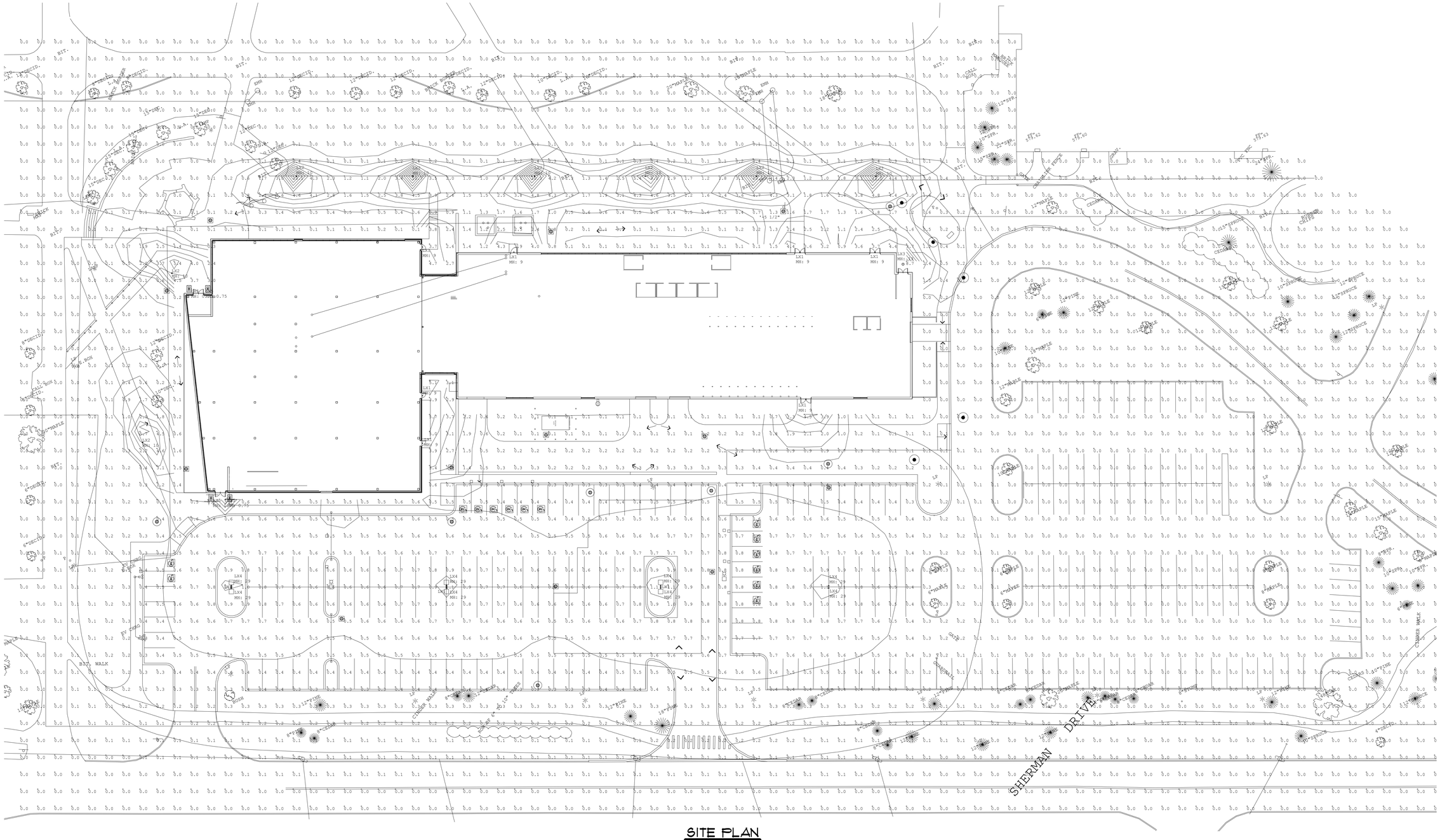
DETAILS

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-706

Luminaire Schedule								
Symbol	Qty	LLF	Description	Tag	Lum. Watts	Total Watts	Lum. Lumens
	8	0.903	GPC-SA1A-740-U-SL2	LX2	34	272	4874
	7	0.903	IST-SA1C-740-U-T4FT-HSS	LX1	34.2	239.4	3470
	8	0.903	GALN-SA1B-740-U-SWQ	LX4	44	352	6026
	1	0.903	GL-2355-H-NA-WH-WH-2-A	LX3	38	38	4023
	4	0.903	SBWL0810-3LT-RM-OP-BK	LX5	8.38	25.52	192

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Grid Z
CalcPts_1	Illuminance	Fc	0.30	10.7	0.0	N.A.	N.A.	0



SITE PLAN
SCALE: 1" = 20'-0"

ONEIDA COUNTY NEW YORK 1798

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SEAL:

LICENSED PROFESSIONAL ENGINEER
WILLIAM H. TOWNE
NO. 045890
UNIVERSITY OF THE STATE OF NEW YORK
COA # 101084 EXPIRATION DATE 8/31/2027

ISSUE/REVISION		
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:

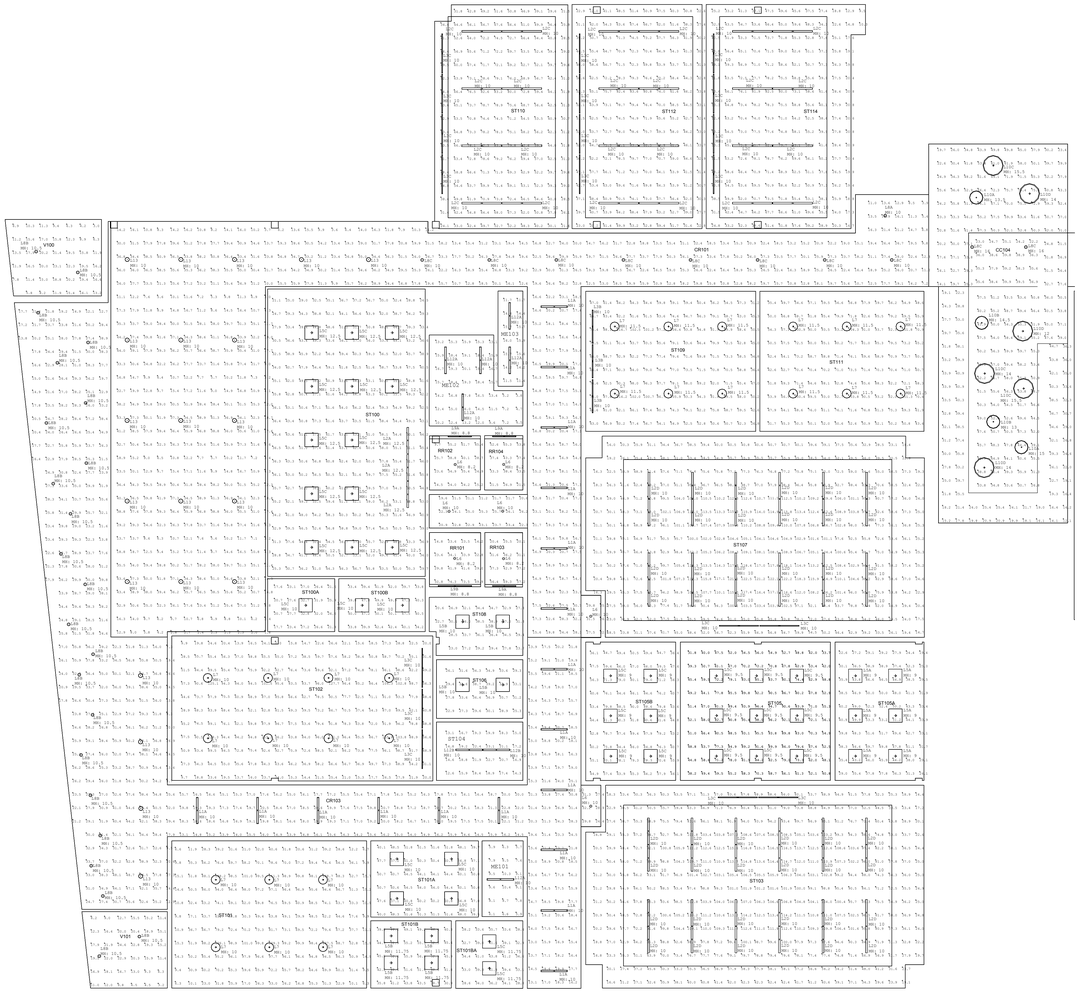
PLAN NORTH

PROJECT:
SCIENCE & TECHNOLOGY BUILDING

DRAWING TITLE:
PHOTOMETRIC CALCULATIONS SITE PLAN & SCHEDULES

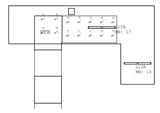
PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-801



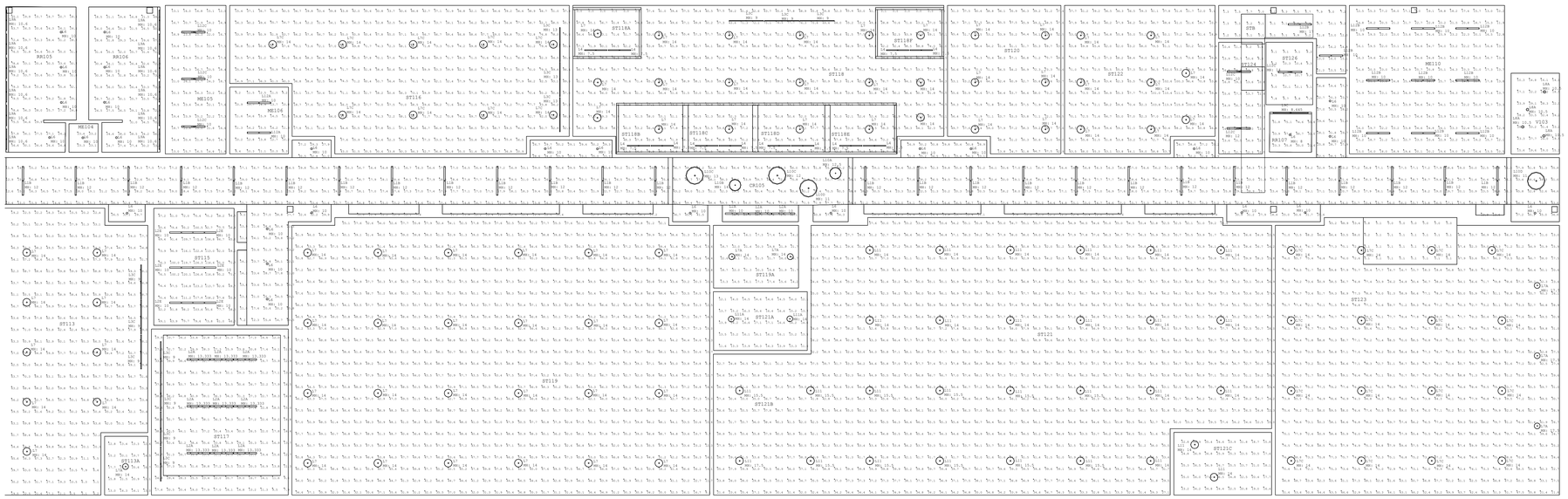
FIRST FLOOR PLAN - HEAD

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



STB STAIR - UPPER

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



FIRST FLOOR PLAN - SHED

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

ONEIDA COUNTY NEW YORK 1798

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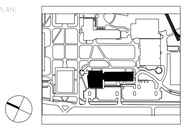
SEAL:

LICENSED PROFESSIONAL ENGINEER
WILLIAM H. TOWNE
No. 045890
STATE OF NEW YORK

ISSUE/REVISION:		
NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:



PLAN NORTH

PROJECT:

SCIENCE &
TECHNOLOGY BUILDING

DRAWING TITLE:

PHOTOMETRIC CALCULATIONS
FIRST FLOOR PLANS

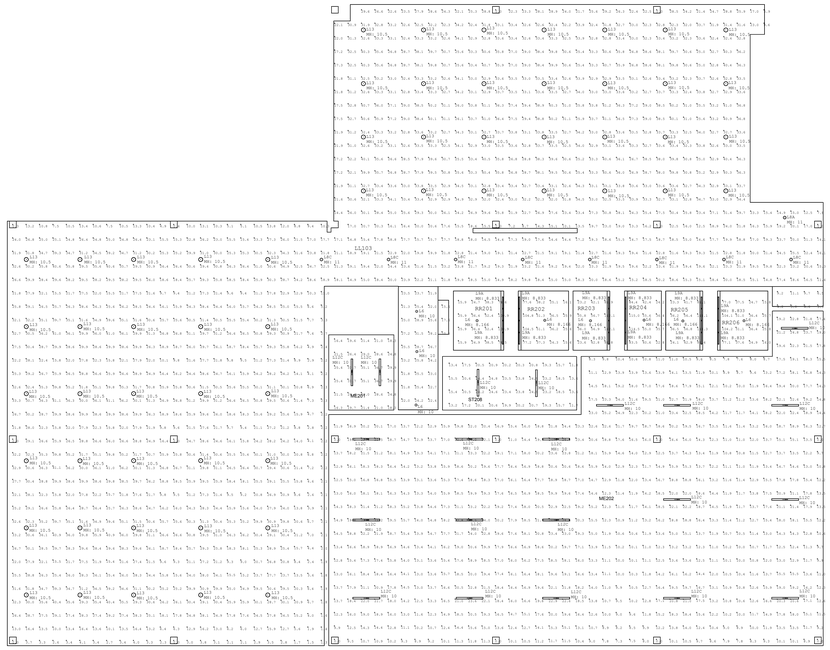
PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

E-802

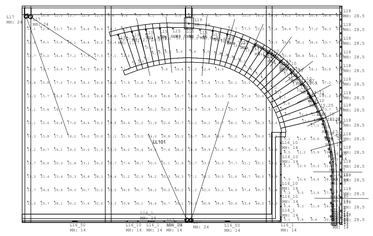
Luminaire Schedule							
Symbol	Qty	LLF	Description	Tag	Lum. Watts	Total Watts	Lum. Lumens
	3	0.903	DLIA-3ES-CRV1-12-XXX-F-SDL-22-CX-4000L-35K-1C-XXX-XX-XXX-XXX-WH	L10A	66.44	199.32	3566
	5	0.903	DLIA-3ES-CRV1-18-XXX-F-SDL-22-CX-4000L-35K-1C-XXX-XX-XXX-XXX-WH	L10B	66.44	327.2	3395
	5	0.903	DLIA-4BS-CRV1-12-XXX-F-SDL-33-CX-7000L-35K-1C-XXX-XX-XXX-XXX-WH	L10C	104.66	523.3	7182
	5	0.903	DLIA-4BS-CRV1-18-XXX-F-SDL-33-CX-7000L-35K-1C-XXX-XX-XXX-XXX-WH	L10D	104.66	523.3	6786
	5	0.903	EPLB-16-E-CA-GW-WL-3040-DCC-DV	L11A	48	240	5146
	29	0.903	EPLB-16-E-CA-GW-WL-3040-DCC-DV	L11B	106	3074	5146
	1	0.903	4SNX-26SL-SLW-UNV-L830-CD	L12A	26.38	26.38	3373
	6	0.903	4SNX-26SL-SLW-UNV-L830-CD	L12B	18.4	248	2436
	27	0.903	4SNX-37SL-SLW-UNV-L830-CD	L12C	24	648	3463
	34	0.903	4SNX-51SL-SLW-UNV-L830-CD	L12D	35	1190	4691
	79	0.903	SLED101B-SYL30-35K-CL_Repaire	L13	25.2772	1996.899	2384
	25	0.903	WL-LED300-C-WT	L15	3.9	97.5	74
	15	0.903	55-2	L16_10	22.7	340.5	2319
	11	0.903	55-2	L16_1	2.27	24.97	232
	2	0.903	55-2	L16_50	113.5	227	11594
	4	0.903		L17	54	216	4215
	16	0.903		L18	11.904	190.464	1077
	1	0.903	3600-16L100-40-U	L19	100	100	11999
	18	0.903	RP44-D-FRF-05-L35-4	L1A	15.2	273.6	2034
	26	1.128	RP44-D-FRF-05-H35-4	L1B	19	494	2413
	4	0.903	RR4-D-FRF-05-L35-4	L1C	15.2	60.8	2034
	15	0.903	RG4-D-FRF-05-H35-4	L2A	15.2	228	1931
	24	1.354	RG4-D-FRF-09-H35-4	L2C	42.6	1022.4	5148
	48	0.903	RG4-D-FRF-13-H35-4	L2D	42.6	2044.8	4979
	6	0.903	RG4-D-FRF-15-H35-4	L2E	49.4	296.4	5725
	3	1.128	107-WG-4B-Z-LO-35-WB-AL	L3B	17.275	51.825	1656
	32	1.354	107-WG-4B-Z-LO-35-WB-AL	L3C	20.73	663.36	1988
	12	1.354	107-SK-4B-Z-LO-35-1-AL	L4	13.82	165.84	1352
	6	0.903	22CGT3-L3C3-LOW-3500K	L5A	20	120	2720
	8	0.903	22CGT3-L3C3-MID-3500K	L5B	40.2	321.6	4785
	37	0.903	44CGT3-L3C3-MID-3500K	L5C	40.8	1510.2	4700
	45	0.903	HC415D010-HMWG25834-41WDH	L6	14	630	1994
	5	0.903	LHBT2D80L35K-DA_12PRA	L7A	29.47	147.35	2725
	25	0.903	16_ LED LOW BAY	L7C	85.7275	2143.188	10270
	91	0.903	16_ LED LOW BAY	L7	55.4	5041.4	6676
	18	0.903	FLCYA-RD-WHR-1000L-35K-1C-120-SC-L11-C72-DNT-YWFL-CD	L8A	11.4	205.2	1033
	23	0.903	FLCYA-RD-WHR-1500L-35K-1C-120-SC-L11-C72-DNT-YWFL-CD	L8B	17.5	402.5	1511
	18	0.903	FLCYA-RD-WHR-2000L-35K-1C-120-SC-L11-C72-DNT-YWFL-CD	L8C	23.7	426.6	2006
	27	0.903	RZ4-N-OS-L35-4	L9A	17.14	462.78	2014
	1	1.128	RZ4-N-OS-L35-4	L9B	21.425	21.425	2518
	1	1.354	RZ4-N-OS-L35-4	L9C	25.71	25.71	3021

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
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CalcPts_CR103	Illuminance	Fc	24.10	48.7	7.3	3.30	6.67
CalcPts_LL101 LOBBY_1	Illuminance	Fc	27.28	90.7	0.0	N.A.	N.A.
CalcPts_LL101 LOBBY_TRD 3F LAND	Illuminance	Fc	15.20	42.5	5.1	2.98	8.33
CalcPts_LL101 LOBBY_TREAD 1	Illuminance	Fc	16.65	23.0	10.3	1.62	2.23
CalcPts_LL101 LOBBY_TREAD 10	Illuminance	Fc	10.60	16.3	6.3	2.04	3.08
CalcPts_LL101 LOBBY_TREAD 11	Illuminance	Fc	9.77	14.3	4.9	1.90	2.92
CalcPts_LL101 LOBBY_TREAD 12	Illuminance	Fc	10.30	14.7	4.9	2.10	3.00
CalcPts_LL101 LOBBY_TREAD 13	Illuminance	Fc	9.75	15.4	4.1	2.38	3.76
CalcPts_LL101 LOBBY_TREAD 14	Illuminance	Fc	11.50	15.5	7.1	1.62	2.18
CalcPts_LL101 LOBBY_TREAD 15	Illuminance	Fc	7.75	8.4	7.1	1.09	1.18
CalcPts_LL101 LOBBY_TREAD 16	Illuminance	Fc	11.75	16.3	7.2	1.63	2.26
CalcPts_LL101 LOBBY_TREAD 17	Illuminance	Fc	8.55	9.8	7.3	1.17	1.34
CalcPts_LL101 LOBBY_TREAD 18	Illuminance	Fc	12.55	17.9	7.2	1.74	2.49
CalcPts_LL101 LOBBY_TREAD 19	Illuminance	Fc	12.50	17.8	7.2	1.74	2.47
CalcPts_LL101 LOBBY_TREAD 2	Illuminance	Fc	18.70	27.6	9.8	1.91	2.82
CalcPts_LL101 LOBBY_TREAD 20	Illuminance	Fc	12.45	17.8	7.1	1.75	2.51
CalcPts_LL101 LOBBY_TREAD 21	Illuminance	Fc	13.30	19.9	6.7	1.99	2.97
CalcPts_LL101 LOBBY_TREAD 22	Illuminance	Fc	12.25	17.8	6.7	1.83	2.66
CalcPts_LL101 LOBBY_TREAD 23	Illuminance	Fc	13.25	20.6	5.9	2.25	3.49
CalcPts_LL101 LOBBY_TREAD 24	Illuminance	Fc	13.95	20.4	7.5	1.86	2.72
CalcPts_LL101 LOBBY_TREAD 25	Illuminance	Fc	16.60	25.0	8.2	2.02	3.05
CalcPts_LL101 LOBBY_TREAD 26	Illuminance	Fc	12.55	13.3	11.8	1.06	1.13
CalcPts_LL101 LOBBY_TREAD 27	Illuminance	Fc	10.80	13.5	8.1	1.33	1.67
CalcPts_LL101 LOBBY_TREAD 3	Illuminance	Fc	17.25	29.4	9.1	1.90	2.79
CalcPts_LL101 LOBBY_TREAD 4	Illuminance	Fc	15.70	21.2	12.5	1.26	1.69
CalcPts_LL101 LOBBY_TREAD 5	Illuminance	Fc	9.90	10.1	9.7	1.02	1.04
CalcPts_LL101 LOBBY_TREAD 6	Illuminance	Fc	10.65	12.2	9.1	1.17	1.34
CalcPts_LL101 LOBBY_TREAD 7	Illuminance	Fc	8.75	9.0	8.5	1.03	1.06
CalcPts_LL101 LOBBY_TREAD 8 LAND	Illuminance	Fc	8.45	9.1	7.8	1.08	1.17
CalcPts_LL101 LOBBY_TREAD 9	Illuminance	Fc	12.20	13.2	11.1	1.10	1.19
CalcPts_LL102_LOWER	Illuminance	Fc	45.29	59.9	21.5	2.11	2.79
CalcPts_LL102_LOWER_STAIR	Illuminance	Fc	28.47	44.7	12.1	2.35	3.69
CalcPts_LL102_LOWER_STAIR	Illuminance	Fc	34.27	39.9	22.2	1.54	1.80
CalcPts_LL102_UPPER	Illuminance	Fc	45.10	79.4	14.1	3.20	5.63
CalcPts_RR107 RESTROOM	Illuminance	Fc	36.33	74.3	14.2	2.56	5.23
CalcPts_RR102 WELLNESS	Illuminance	Fc	31.38	61.7	13.7	2.29	4.50
CalcPts_RR103 RESTROOM	Illuminance	Fc	38.77	69.3	20.1	1.93	3.45
CalcPts_RR104 RESTROOM	Illuminance	Fc	38.74	65.3	20.0	1.94	3.26
CalcPts_RR105 RESTROOM	Illuminance	Fc	35.87	79.5	15.7	2.28	5.06
CalcPts_RR106 RESTROOM	Illuminance	Fc	39.49	73.9	16.8	2.11	4.40
CalcPts_ST100 FABMATICS	Illuminance	Fc	48.78	64.8	21.1	2.31	3.07
CalcPts_ST101A FAB COLLAB	Illuminance	Fc	54.66	90.2	39.5	1.38	1.63
CalcPts_ST105 PREP ROOM	Illuminance	Fc	49.52	98.0	31.8	2.19	3.08
CalcPts_ST105A CHEM STORAGE	Illuminance	Fc	39.91	53.3	19.4	2.06	2.75
CalcPts_ST105B INSTRUMENT	Illuminance	Fc	68.99	91.8	36.1	1.91	2.54
CalcPts_STA STAIR	Illuminance	Fc	11.16	58.8	1.5	7.44	25.67
CalcPts_STA STAIR 10-5	Illuminance	Fc	18.68	20.4	16.7	1.12	1.22
CalcPts_STA STAIR 15-10	Illuminance	Fc	19.60	24.7	13.2	1.48	1.87
CalcPts_STB STAIR_0-525	Illuminance	Fc	5.02	6.6	4.3	1.17	1.53
CalcPts_ STB STAIR_5-25	Illuminance	Fc	3.05	3.6	2.6	1.17	1.38
LL101 LOBBY_Wall_2	Illuminance	Fc	25.68	81.2	6.9	3.72	11.77
LL101 LOBBY_Wall_Total	Illuminance	Fc	20.78	50.6	4.9	4.42	10.77
LL101 LOBBY_Work_Total	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
LL103 CORRIDOR_Workplane	Illuminance	Fc	25.40	41.0	4.0	N.A.	N.A.
ME103 JAN_Workplane	Illuminance	Fc	13.42	30.4	5.7	2.39	5.82
ME102 DATA_Workplane	Illuminance	Fc	14.10	20.1	3.8	3.71	5.29
ME103 ELECTRIC_Workplane	Illuminance	Fc	14.15	16.0	11.4	1.24	1.40
ME104_Workplane	Illuminance	Fc	23.25	23.4	23.1	1.01	1.01
ME105ELEC_Workplane	Illuminance	Fc	20.33	27.7	11.8	1.72	2.35
ME106 IT SEC_Workplane	Illuminance	Fc	12.92	15.9	8.3	1.56	1.92
ME110 BOILER RM_Workplane	Illuminance	Fc	20.30	26.5	0.0	N.A.	N.A.
ME201 IT CLOSET_Workplane	Illuminance	Fc	25.58	26.1	16.3	1.57	2.15
ME202 MECHANICAL_Workplane	Illuminance	Fc	15.42	25.8	0.0	N.A.	N.A.
PENTHOUSE_Workplane	Illuminance	Fc	18.14	29.1	5.0	3.63	5.82
RR107 ADA RESTROOM_Workplane	Illuminance	Fc	43.98	75.1	21.6	2.04	3.48
RR201 ADA RESTROOM_Workplane	Illuminance	Fc	46.16	100.9	15.9	2.90	6.35
RR202 ADA RESTROOM_Workplane	Illuminance	Fc	46.71	104.8	15.6	2.99	6.72
RR203 RESTROOM_Workplane	Illuminance	Fc	58.75	112.1	23.2	2.53	4.83
RR204 RESTROOM_Workplane	Illuminance	Fc	59.18	115.0	22.8	2.60	5.04
RR205 RESTROOM_Workplane	Illuminance	Fc	58.07	111.3	23.3	2.51	4.78
RR206 ADA RESTROOM_Workplane	Illuminance	Fc	46.58	104.2	15.8	2.95	6.59
ST100A GOWNING_Workplane	Illuminance	Fc	21.53	32.8	17.6	1.45	1.86
ST100B OFFICE_Workplane	Illuminance	Fc	42.19	50.1	33.4	1.26	1.50
ST101_Workplane	Illuminance	Fc	27.49	111.3	6.3	9.13	17.67
ST101A DUST PROCESS_Workplane	Illuminance	Fc	46.77	56.0	30.9	1.51	1.81
ST101B FINAL PRINT_Workplane	Illuminance	Fc	30.53	43.8	29.2	1.05	1.50
ST102_Workplane	Illuminance	Fc	63.77	131.0	0.0	N.A.	N.A.
ST103_Workplane	Illuminance	Fc	74.19	151.8	0.0	N.A.	N.A.
ST104_Workplane	Illuminance	Fc	74.09	151.1	12.6	5.43	11.83
ST105 PREP ROOM_Workplane	Illuminance	Fc	49.52	98.0	31.8	2.19	3.08
ST106_Workplane	Illuminance	Fc	52.06	99.2	22.9	1.40	1.71
ST107_Workplane	Illuminance	Fc	73.10	122.5	14.7	4.97	8.33
ST108_Workplane	Illuminance	Fc	30.88	38.9	20.6	1.50	1.89
ST109_Workplane	Illuminance	Fc	74.34	116.7	26.8	2.77	4.35
ST110 CLASSROOM_Workplane	Illuminance	Fc	56.48	83.2	21.5	2.63	3.87
ST111_Workplane	Illuminance	Fc	70.44	104.3	31.7	2.22	3.29
ST112 CLASSROOM_Workplane	Illuminance	Fc	56.43	83.6	12.0	4.70	6.97
ST113_Workplane	Illuminance	Fc	50.10	77.1	4.2	11.93	18.36
ST113A_Workplane	Illuminance	Fc	16.82	27.1	12.6	1.33	2.15
ST114 CLASSROOM_Workplane	Illuminance	Fc	51.43	82.5	9.5	5.41	8.68
ST115_Workplane	Illuminance	Fc	87.12	126.6	44.5	1.96	2.84
ST116_Workplane	Illuminance	Fc	61.67	114.7	14.9	4.14	7.70
ST117_Workplane	Illuminance	Fc	27.52	46.2	7.9	3.48	5.85
ST118_Workplane	Illuminance	Fc	60.76	98.5	0.0	N.A.	N.A.
ST119_Workplane	Illuminance	Fc	43.41	63.3	8.1	5.36	7.81
ST119A_Workplane	Illuminance	Fc	19.52	29.1	13.3	1.47	2.19
ST120_Workplane	Illuminance	Fc	59.32	85.6	13.8	4.30	6.20
ST121_Workplane	Illuminance	Fc	40.08	49.7	19.8	2.02	2.51
ST121A_Workplane	Illuminance	Fc	14.74	17.1	11.6	1.27	1.47
ST122_Workplane	Illuminance	Fc	23.20	27.3	15.8	1.47	1.73
ST122A_Workplane	Illuminance	Fc	49.74	61.5	37.1	1.34	1.66
ST123_Workplane	Illuminance	Fc	62.38	98.0	0.0	N.A.	N.A.
ST124_Workplane	Illuminance	Fc	53.04	99.1	6.0	8.87	16.49
ST126_Workplane	Illuminance	Fc	9.29	10.7	7.8	1.19	1.37
ST208 STORAGE_Workplane	Illuminance	Fc	19.60	24.9	11.7	1.68	2.13
STA LOWER STAIRS_STA LOWER ST	Illuminance	Fc	10.11	12.7	7.2	1.40	1.76
STA UPPER STAIRS_STA UPPER ST	Illuminance	Fc	15.69	18.3	14.2	1.10	1.29
STB STAIR_Workplane	Illuminance	Fc	8.29	16.2	0.1	82.90	162.00
V100_Workplane	Illuminance	Fc	13.85	23.1	3.0	4.62	7.70
V101_Workplane	Illuminance	Fc	14.84	24.9	3.2	4.64	7.69
v103_Workplane	Illuminance	Fc	22.83	33.5	10.3	2.22	3.25

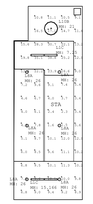
Room Summary			
Label	Type	Wall Ht.	
CO 104 LOUNGE CONNECTOR	Polygon-Flat	19.5	
CR101 CORRIDOR	Polygon-Flat	14.5	
CR103 CORRIDOR UPPER	Polygon-Flat	0.6	
CR103 CORRIDOR	Polygon-Flat	14.5	
LL101 CORRIDOR	Polygon-Flat	14.5	
LL101 LOBBY_1	Rect-Flat	20.5	
LL103 CORRIDOR	Polygon-Flat	14.5	
ME101 JAN	Rect-Flat	14.5	
ME102 DATA	Polygon-Flat	15	
ME103 ELECTRIC	Rect-Flat	15	
ME104 JAN	Polygon-Flat	10	
ME105 ELEC	Polygon-Flat	20	
ME106 IT SEC	Polygon-Flat	20	
ME110 BOILER RM	Rect-Flat	20	
ME201 IT CLOSET	Rect-Flat	14.5	
ME202 MECHANICAL	Polygon-Flat	14.5	
PENTHOUSE	Rect-Flat	12	
RR101 RESTROOM	Rect-Flat	8.8	
RR102 WELLNESS	Rect-Flat	8.8	
RR103 RESTROOM	Rect-Flat	8.8	
RR104 RESTROOM	Rect-Flat	8.8	
RR105 RESTROOM	Rect-Flat	11	
RR106 RESTROOM	Polygon-Flat	11	
RR107 ADA RESTROOM	Rect-Flat	8.645	
RR201 ADA RESTROOM	Rect-Flat	8.833	
RR202 ADA RESTROOM	Rect-Flat	8.833	
RR203 RESTROOM	Rect-Flat	8.833	
RR204 RESTROOM	Rect-Flat	8.833	
RR205 RESTROOM	Rect-Flat	8.833	
RR206 ADA RESTROOM	Rect-Flat	8.833	
ST100 FABMATICS	Rect-Flat	12.5	
ST100A GOWNING	Rect-Flat	10	
ST100B OFFICE	Rect-Flat	10	
ST101 FAB LAB	Rect-Flat	14.5	
ST101A FAB COLLAB	Rect-Flat	10	
ST101B POST PROCESS	Rect-Flat	11.75	
ST101BA METAL PRINT	Rect-Flat	11.75	
ST102 MECHATRONICS ROBOTICS	Polygon-Flat	14.5	
ST103 GENERAL CHEMISTRY	Polygon-Flat	14.5	
ST104 CHEM WASTE	Rect-Flat	14.5	
ST105 PREP ROOM	Polygon-Flat	9.6	
ST105A CHEM STORAGE	Polygon-Flat	9	
ST105B INSTRUMENT	Polygon-Flat	9	
ST106 OFFICE	Rect-Flat	10	
ST107 ORGANIC CHEMISTRY	Polygon-Flat	10	
ST108 OFFICE	Polygon-Flat	10	
ST109 PNEUMATIC & VAC	Rect-Flat	15	
ST110 CLASSROOM	Polygon-Flat	15	
ST111 HYDRAULIC & MECH	Rect-Flat	15	
ST112 CLASSROOM	Polygon-Flat	15	
ST113 LAB	Polygon-Flat	20	
ST113A CHEM STORAGE	Rect-Flat	20	
ST114 CLASSROOM	Polygon-Flat	15	
ST115 COLLAB LAB	Rect-Flat	10	
ST116 INDUSTRIAL CONTROL	Polygon-Flat	20	
ST117 CAD LAB	Polygon-Flat	20	
ST118 ELEC CODES	Polygon-Flat	20	
ST119 MACHINE & CNC LAB	Polygon-Flat	20	
ST119A MACHINE TOOL STORAGE	Rect-Flat	20	
ST120 MATERIAL TESTING	Polygon-Flat	20	
ST121 WELDING LAB	Polygon-Flat	20	
ST121A WELDING TOOL STORAGE	Rect-Flat	20	
ST121C GAS STORAGE	Rect-Flat	20	
ST122 MATERIAL PROCESS	Polygon-Flat	20	
ST123 HVAC LAB	Polygon-Flat	20	
ST124 STORAGE	Rect-Flat	20	
ST126 STOR WASTE	Rect-Flat	20	
ST208 STORAGE	Rect-Flat	14.5	
STA STAIR	Polygon-Flat	30.5	
STA STAIR_1	Polygon-Flat	30.5	
STB STAIR	Polygon-Flat	20	
STB STAIR_1	Polygon-Flat	20	
V100 VESTIBULE	Polygon-Flat	14.5	
V101 VESTIBULE	Polygon-Flat	14.5	
v103 VESTIBULE	Rect-Flat	20	



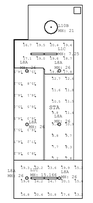
SECOND FLOOR PLAN - HEAD
SCALE: 1/8" = 1'-0"



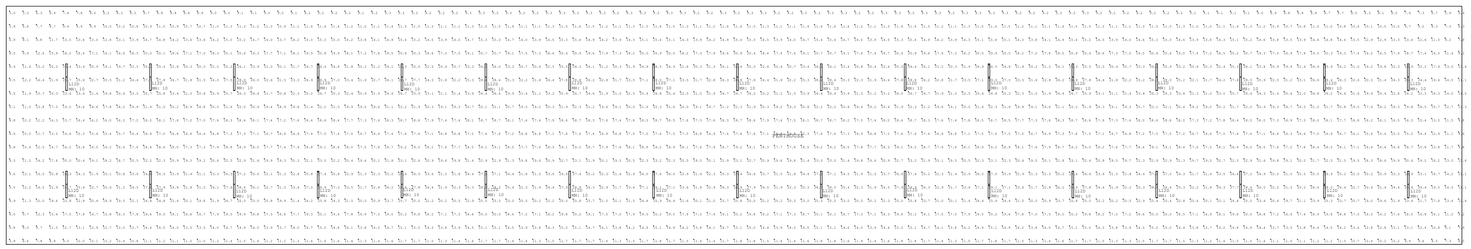
LOBBY LL101
SCALE: 1/8" = 1'-0"



STA STAIR - UPPER
SCALE: 1/8" = 1'-0"



STA STAIR - LOWER
SCALE: 1/8" = 1'-0"



PENTHOUSE FLOOR PLAN - SHED
SCALE: 1/8" = 1'-0"

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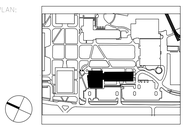
LICENSE # 103194 EXPIRATION DATE: 09/31/2027
LICENSED PROFESSIONAL ENGINEER
WILLIAM H. TOWNE
DOS#0901
UNIVERSITY OF THE STATE OF NEW YORK

ISSUE/REVISION:

NO.	DATE	COMMENTS
1	9/23/25	REBID & CONSTRUCTION

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KEY PLAN:



PLAN NORTH

PROJECT:

SCIENCE &
TECHNOLOGY BUILDING

DRAWING TITLE:

PHOTOMETRIC CALCULATIONS
SECOND FLOOR PLAN
AND PENTHOUSE PLANS

PROJECT NO: 23000 (4038)	DATE: 9/23/2025
PHASE: REBID & CONSTRUCTION	SCALE: AS NOTED

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