

ADDENDUM No. 1

Client: Abila Griffin Partnership
Project Name: Moore West JH Classroom Addition
Project Location: Moore, OK

Issue Date: July 22, 2022

Owner: Moore Public Schools
Engineer: Salas O'Brien

Salas O'Brien Project No. 2021-02932-00



To: Prospective Bidders.

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated May 2, 2022, (and any previous Addendum), with amendments and additions noted below. This Addendum consists of **(2)** pages and **(12)** attachments.

Index of Attachments

Moore West JH Earthsmart Temperature Control proposal

E000	P111	T201
E101	P401	
E201	P402	
E601	M101	
P101	M601	

Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may disqualify Bidder.

CHANGES TO BIDDING REQUIREMENTS

- The attached Earthsmart Temperature Control proposal shall be included as part of the mechanical bid for this project.



CHANGES TO THE DRAWINGS

Revisions have been made to the following drawings and are issued in the form of full-size plans. Edits are indicated by a revision delta and a cloud surrounding the affected portion of the drawing.

- **SHEET M101 – MECHANICAL DUCTWORK PLAN**
 - Refer to drawings for changes shown in clouds and deltas.
- **SHEET M601 – MECHANICAL SCHEDULES**
 - Refer to drawings for changes shown in clouds and deltas.
- **SHEET E000 – ELECTRICAL TITLE SHEET**
 - Refer to drawings for changes shown in clouds and deltas.
- **SHEET E101 – ELECTRICAL LIGHTING PLAN**
 - Refer to drawings for changes shown in clouds and deltas.
- **SHEET E201 – ELECTRICAL POWER PLAN**
 - Refer to drawings for changes shown in clouds and deltas.
- **SHEET E601 – ELECTRICAL SCHEDULES**
 - Refer to drawings for changes shown in clouds and deltas.
- **SHEET P101 – PLUMBING PLAN – BELOW GRADE**
 - Refer to drawings for changes shown in clouds and deltas.
- **SHEET P111 – PLUMBING PLAN – ABOVE GRADE**
 - Refer to drawings for changes shown in clouds and deltas.
- **SHEET P401 – PLUMBING ISOMETRIC – WASTE & VENT**
 - Refer to drawings for changes shown in clouds and deltas.
- **SHEET P402 – PLUMBING ISOMETRIC – WATER SUPPLY**
 - Refer to drawings for changes shown in clouds and deltas.
- **SHEET T201 – TECHNOLOGY PLAN**
 - Refer to drawings for changes shown in clouds and deltas.

END OF ADDENDUM [01]





5305 N Santa Fe Avenue
Oklahoma City, OK 73118

www.earthsmartcontrols.com

Phone: (405) 778-8008
Fax: (866) 676-5602

To: Moorewest Junior High Bidders
Attn: Estimator

May 16, 2022

This is a proposal to provide controls for the Moorewest Junior High Classroom Addition project.

Splits (12)

- Provide and install Honeywell controls.
- Install communication, controller, supply air sensor, fan status, compressor statuses, digital space temperature sensor and CO2 sensor to control outside air damper (damper actuator by others).
- Commission the units to ensure proper operation.

EF (1)

- Provide and install controls for EF-1 to run with AHU-2 occupancy.
- Commission the units to ensure proper operation.

GPS Ionizers (12)

- Provide and install 12 new GPS-FC48-AC ionizers.
- Commission the unit to ensure proper operation.

Honeywell WEBS N4 Frontend

- Tie to existing WEB-8000 onsite and integrate N4 supervisor station (graphical user interface).
- Provide a 25 Device JACE to allow for future expansion.
- Provide 4 hours of user training.
- ***Provide 1 year parts and labor warranty.***
- Provide graphical representations of equipment listed above.
- Provide custom trending and alarming.
- Provide scheduling capabilities and remote access.

We thank you for the opportunity to bid and look forward to working with you soon.

If you have any questions, please feel free to contact us at (405) 778-8008.

Exclusions for total job: Any wiring above 24V, smoke detectors, damper actuators and anything not mentioned in this proposal.



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The total price for the control work above is: \$49,200
Forty-Nine Thousand Two Hundred Dollars

A handwritten signature in blue ink, appearing to be "EB", with a light blue circular stamp or watermark behind it.

Erin Bevill
Controls Manager
EarthSmart Controls, LLC

Company: _____

Signature: _____

Date: _____

Printed Name: _____

Title: _____

PO #: _____

LIGHT FIXTURE SCHEDULE				
TYPE	SYMBOL	DESCRIPTION	MANUFACTURER	REFERENCE CATALOG #
A		2X4 LED EDGE-LIT FLAT PANEL. 32W, 4100 LUMENS, 3500K CCT. 0-10V DIMMING.	COLUMBIA	CFP24 4135 HE
AE		2X4 LED EDGE-LIT FLAT PANEL. 32W, 4100 LUMENS, 3500K CCT. 0-10V DIMMING, 90 MIN BATTERY BACKUP.	COLUMBIA	CFP24 4135 HE ELL14
C		6" RECESSED LED DOWNLIGHT. 22W, 1500 LUMENS, 3500K CCT. IC RATED, WET LOCATION, 0-10V DIMMING.	LITON	CH618 ICA UED10 CR6L22 XX T35
CE		6" RECESSED LED DOWNLIGHT. 22W, 1500 LUMENS, 3500K CCT. IC RATED, WET LOCATION, 0-10V DIMMING. 90 MIN BATTERY BACKUP.	LITON	CH618 ICA UED10EM CR6L22 XX T35
D		2' LED STRIP FIXTURE. 18W, 2200 LUMENS, 3500K CCT. WALL MOUNTED, 0-10V DIMMING.	COLUMBIA	MPS2 35 MW CW ED U XX
EX		LED EXIT SIGN. STAINLESS STEEL FACE WITH RED LETTERS, UNIVERSAL FACE AND MOUNTING; SELF-DIAGNOSTIC, 90 MIN BATTERY BACKUP.	COMPASS	CCESRE/CCEDRE
EX2		EXTERIOR RATED LED EXIT SIGN, RED LETTERS. SINGLE-FACE, WALL MOUNTED. SELF-DIAGNOSTIC, 90 MIN BATTERY BACKUP.	COMPASS	CEWDRE
F		2' LED VANITY FIXTURE. 15W, 1000 LUMENS, 3500K CCT. WALL MOUNTED, 0-10V DIMMING.	PINNACLE	EX3D WHE N 835VHO 2 WA U OL2 1 XX
L		6' EXTERIOR LINEAR LED FIXTURE. 58W, 4500 LUMENS, 3500K CCT. 90 MINUTE BATTERY BACKUP, MULLION MOUNTED.	HUBBELL	RN D X 6 7 35K8 AS DL UNV XXX M EM
S		4' LED STRIP FIXTURE. 38W, 4800 LUMENS, 3500K CCT. SUSPENDED MOUNTING, 0-10V DIMMING.	COLUMBIA	MPS4 35 ML CPW ED U
SE		4' LED STRIP FIXTURE. 38W, 4800 LUMENS, 3500K CCT. SUSPENDED MOUNTING, 0-10V DIMMING. 90 MIN BATTERY BACKUP.	COLUMBIA	MPS4 35 ML CPW ED U ELL14
W		EXTERIOR LED WALL PACK. 45W, 5700 LUMENS, 4000K CCT. WET LOCATION, 90 MIN BATTERY BACKUP.	HUBBELL	RWL1 48L 35 4K7 3 UNV XX E

GENERAL NOTES:
EQUIVALENT ALTERNATE LIGHT FIXTURES MAY BE PROVIDED FOR BIDDING PURPOSES. THE ENGINEER DOES NOT TAKE RESPONSIBILITY FOR ENSURING ALTERNATE LIGHT FIXTURES USED FOR BIDDING ARE EQUAL; THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALTERNATE FIXTURES ARE EQUIVALENT TO THOSE SPECIFIED PRIOR TO BID. THE WINNING BID PACKAGE SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW IN ACCORDANCE WITH THE SPECIFICATIONS.

ELECTRICAL LEGEND	
	PANEL BOARD
	DISTRIBUTION PANEL BOARD
	TRANSFORMER
	UTILITY METER
	SEPARATE CIRCUIT BREAKER
	DISCONNECT
	FUSED DISCONNECT SWITCH
	EMERGENCY FUSED DISCONNECT SWITCH
	MOTOR STARTER/CONTRACTOR
	COMBINATION MOTOR STARTER
	PUSH BUTTON STATION AS NOTED
	PULL BOX, SIZE AS REQUIRED BY CODE
	ELECTRICAL CONNECTION
	MOTOR CONNECTION
	HOME RUN TO PANEL BOARD

SWITCH LEGEND	
SYMBOL	DESCRIPTION
\$	20A, 120/277V SPST SWITCH
\$ ₀	20A, 120/277V LETTER INDICATES GROUP
\$ ₃	20A, 120/277V 3-WAY
\$ ₄	20A, 120/277V 4-WAY
\$ _D	DIMMER SWITCH
\$ _K	KEY OPERATED SWITCH
\$ _{OC}	OCCUPANCY SENSOR SWITCH

GENERAL NOTE:
SEE SPECIFICATIONS FOR MANUFACTURERS

OCC SENSOR SCHEDULE	
SYMBOL	DESCRIPTION
	MULTI-TECHNOLOGY, CEILING MOUNTED OCCUPANCY SENSOR CAPABLE OF DISABLING AUTO ADAPTING FEATURE. PROVIDE WITH RELAY/POWER PACKS AS REQUIRED PER PLAN. (LOW VOLTAGE)

GENERAL NOTES:

- E.C. SHALL CONTACT ARCHITECT FOR COLOR SELECTION PRIOR TO ORDER OF ANY SENSOR.
- FOR CEILING SPACES 14 FT. A.F.F. PIR TYPE CEILING MOUNTED SENSORS SHALL BE USED.
- WALL MOUNTED DEVICES TO MATCH MANUAL LIGHTING CONTROL.

RECEPTACLE SCHEDULE	
SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE
	20A, 120V, 2P, 3W GROUNDING DUPLEX RECEPTACLE
	RECEPTACLE MTD. 6" ABOVE COUNTER OR HGT SHOWN
	DUPLEX RECEPTACLE, CEILING MOUNTED
	GFCI RECEPTACLE
	QUADPLEX RECEPTACLE

GENERAL NOTE:
SEE SPECIFICATIONS FOR MANUFACTURERS

GENERAL ELECTRICAL NOTES	
1.	CONTRACTOR TO VERIFY EXISTING ELECTRICAL CONDITIONS AND NOTIFY ARCHITECT/ENGINEER OF ANY ELECTRICAL OR CODE ISSUES PRIOR TO BID. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL CODE COMPLIANT SYSTEM.
2.	ALL WORK SHALL BE IN CONFORMANCE WITH NATIONAL, STATE, AND LOCAL CODES AND/OR ORDINANCES.
3.	ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER CONTRACTORS & LOCAL UTILITY. E.C. SHALL CONTACT LOCAL UTILITY FOR EXACT SERVICE REQUIREMENTS TO INCLUDE BUT NOT LIMITED TO TRANSFORMER, METERING AND CABLING. LOCAL UTILITY REQUIREMENTS SUPERSEDE DRAWINGS AND SPECIFICATIONS.
4.	SEE ARCHITECTURAL, MECHANICAL, & PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
5.	WHERE NEW OR EXISTING WIRING FOR INTERIOR DATA OR POWER WILL BE EXPOSED, SURFACE MOUNTED RACEWAY EQUAL TO WIREMOLD SERIES 5400 SHALL BE USED. SURFACE BOXES SHALL MATCH SURFACE RACEWAY. ALL PARTS AND ACCESSORIES SHALL BE INSTALLED FOR A COMPLETE SYSTEM. WHERE BOTH DATA AND POWER WIRING SHARE THE SAME RACEWAY, POWER WIRING SHALL BE SEPARATED FROM DATA WIRING AS PER NEC.
6.	ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO GIVE APPROXIMATE LOCATIONS AND OVERALL DESIGN INTENT. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCTS, MATERIALS, AND ELECTRICAL METHODS WHICH HAVE NOT BEEN SHOWN OR INDICATED BUT ARE REQUIRED FOR A COMPLETE SYSTEM TO THE STANDARDS OF THE INDUSTRY.
7.	INSTALL LIGHTING FIXTURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUPPORTING DEVICES FOR ADEQUATE SUPPORT OF FIXTURES FROM STRUCTURE.
8.	UPON COMPLETION OF THE ELECTRICAL WORK, THE INSTALLATION SHALL BE TESTED FOR CONTINUITY, GROUNDS, AND SHORT CIRCUITS. THE ELECTRICAL CONTRACTOR SHALL DEMONSTRATE PROPER PERFORMANCE OF ALL SYSTEMS. ALL DEFECTIVE WORK OR MATERIALS SHALL BE REPLACED OR REPAIRED AS NECESSARY AND RETESTED.
9.	ELECTRICAL RACEWAYS THAT PENETRATE FIRE RATED ASSEMBLIES SHALL BE SLEEVED AND SEALED AS PER THE LOCAL BUILDING CODE.
10.	THE ELECTRICAL CONTRACTOR SHALL PROVIDE A TEMPORARY ELECTRICAL SYSTEM FOR THE PROJECT. AT LEAST ONE 120 VOLT SINGLE PHASE RECEPTACLE SHALL BE PROVIDED FOR EACH 500 SQUARE FEET OF FLOOR SPACE. SUFFICIENT TEMPORARY LIGHTING SHALL BE PROVIDED TO ALLOW ALL CONTRACTORS TO COMPLETE THEIR WORK. TEMPORARY ELECTRICAL CIRCUITS SHALL BE EQUIPPED WITH COMBINATION GROUND FAULT INTERRUPTER AND CIRCUIT BREAKER PER NEC. TEMPORARY ELECTRICAL SYSTEM SHALL BE INCLUDED IN THIS BID. USAGE CHARGES SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.

ELECTRICAL ABBREVIATIONS			
AC	ABOVE COUNTERTOP	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISH FLOOR	MCA	MINIMUM CIRCUIT AMPS
AFG	ABOVE FINISH GRADE	MDP	MAIN DISTRIBUTION PANEL
ANNC	ANNUNCIATOR	MTD	MOUNTED
CC	CONTROLS CONTRACTOR	NIC	NOT IN CONTRACT
DF	DRINKING FOUNTAIN	OCC	OCCUPANCY
EC	ELECTRICAL CONTRACTOR	PC	PLUMBING CONTRACTOR
EF	EXHAUST FAN	PNL	PANEL
EX	EXISTING	SPST	SINGLE POLE SINGLE THROW
EXR	EXISTING RELOCATED	TTB	TELEPHONE TERMINAL BOARD
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GFI	GROUND FAULT INTERRUPT	WG	WIRE GUARD
HP	HORSEPOWER	WP	WEATHER PROOF
IBC	INTERNATIONAL BUILDING CODE	20A	20 AMP
IG	ISOLATED GROUND	Ø	PHASE
LV	LOW VOLTAGE	3W	3 WIRE
LVRP	LV RELAY PANEL	1P20A	SINGLE POLE 20 AMP

ELECTRICAL SHEET INDEX	
E000	ELECTRICAL TITLE SHEET
E001	ELECTRICAL SITE PLAN
E101	ELECTRICAL LIGHTING PLAN
E201	ELECTRICAL POWER PLAN
E202	ELECTRICAL POWER PLAN - ROOF
E401	ELECTRICAL ONE-LINE DIAGRAM - EXISTING
E402	ELECTRICAL ONE-LINE DIAGRAM - NEW
E501	ELECTRICAL DETAILS SHEET
E601	ELECTRICAL SCHEDULES

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KFC ENGINEERING

STRUCTURAL

SALAS O'BRIEN

MECHANICAL / ELECTRICAL



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MARCH 2022

date

revisions

MOORE PUBLIC SCHOOLS
BOARD OF EDUCATION
MOORE, OKLAHOMA



CLASSROOM ADDITION
MOOREWEST
JUNIOR HIGH SCHOOL

sheet no:

E000



SALAS O'BRIEN
[expect a difference]

2600 Van Buren St., Suite 2635
Norman, Oklahoma 73072
P: 405.364.9926 | CA#:7058 Expiration Date: 6/30/2023

Salas O'Brien Project No.: 2021-02932-00

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GENERAL NOTES

1. OCCUPANCY SENSOR LOCATIONS ARE FOR DESIGN INTENT ONLY. LOCATE OCCUPANCY SENSORS PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
2. CONNECT BATTERY PACKS TO UNSWITCHED HOT OF LOCAL LIGHTING CIRCUIT.
3. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF LIGHT FIXTURES WITH HVAC EQUIPMENT AND OTHER DEVICES/EQUIPMENT.
4. COORDINATE LIGHT SWITCHES WITH THERMOSTATS AND OTHER WALL MOUNTED DEVICES.
5. PROVIDE RELAY CONTACTOR FOR EXTERIOR LIGHTING. RELAY SHALL INTERLOCK WITH THE NEAREST EXISTING LIGHTING CIRCUIT SUCH THAT THE EXISTING LIGHTING CONTROLS SHALL CONTROL THE NEW EXTERIOR LIGHTING.
6. REFER TO '8/ES01' FOR ADDITIONAL INFORMATION REGARDING RESTROOM LIGHTING CONTROLS.

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07/22/22 AD01

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MOORE PUBLIC SCHOOLS
BOARD OF EDUCATION
MOORE, OKLAHOMA



CLASSROOM ADDITION
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JUNIOR HIGH SCHOOL

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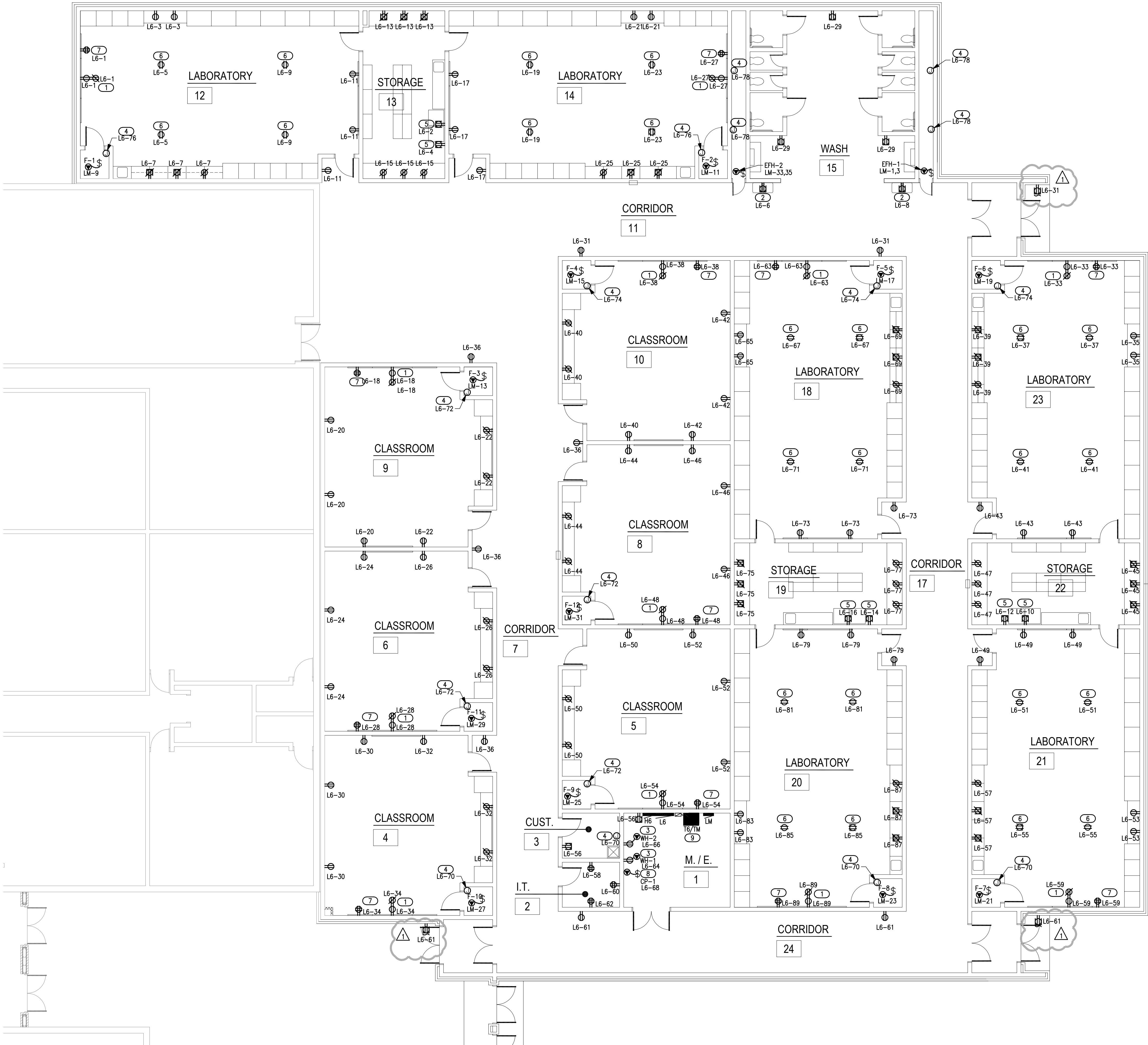


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1 ELECTRICAL POWER PLAN

1/8" = 1'-0"

GENERAL NOTES

- COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT. COORDINATE EXACT LOCATIONS OF CEILING MOUNTED DEVICES WITH LIGHTS, HVAC EQUIPMENT, AND OTHER DEVICES.
- COORDINATE WITH MC AND PROVIDE ALL RELAYS, CONNECTIONS, AND ALL DEVICES NECESSARY TO INTERLOCK EXHAUST FANS, DAMPERS, ETC WITH PROPER CONTROL DEVICES.
- COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.

KEYED NOTES

- RECEPTACLE FOR SMART BOARD (BY OWNER) IN A RECESSED BACK BOX. REFER TO DETAIL 'E501/9' FOR ADDITIONAL INFORMATION.
- PROVIDE 120V RECEPTACLE FOR WATER COOLER. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO ROUGH IN.
- PROVIDE 120V RECEPTACLE FOR WATER HEATER. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH IN.
- PROVIDE 120V CONNECTION FOR TRAP PRIMER LOCATED ON WALL 5'-0" AFF. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH IN.
- PROVIDE DEDICATED 120V RECEPTACLES FOR FRIDGE & FREEZER. COORDINATE FINAL REQUIREMENTS AND LOCATIONS WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN. ADJUST CONNECTION AS REQUIRED FOR A COMPLETE INSTALLATION.
- PROVIDE 120V DROP CORD RECEPTACLE FOR GENERAL USE. COORDINATE FINAL LOCATIONS AND REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAIL 'E501/6' FOR ADDITIONAL INFORMATION.
- APPROXIMATE LOCATION OF TEACHERS DESK. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAIL 'E501/9' FOR ADDITIONAL INFORMATION.
- PROVIDE 120V CONNECTION FOR CIRCULATION PUMP. CP-1 SHALL SERVE BOTH WH-1 & WH-2. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE ALL MOUNTINGS, SUPPORTS, ETC FOR STACKING TRANSFORMER 'T6' ON TOP OF TRANSFORMER 'TM'. REFER TO DETAIL 'E501/10' FOR ADDITIONAL INFORMATION.

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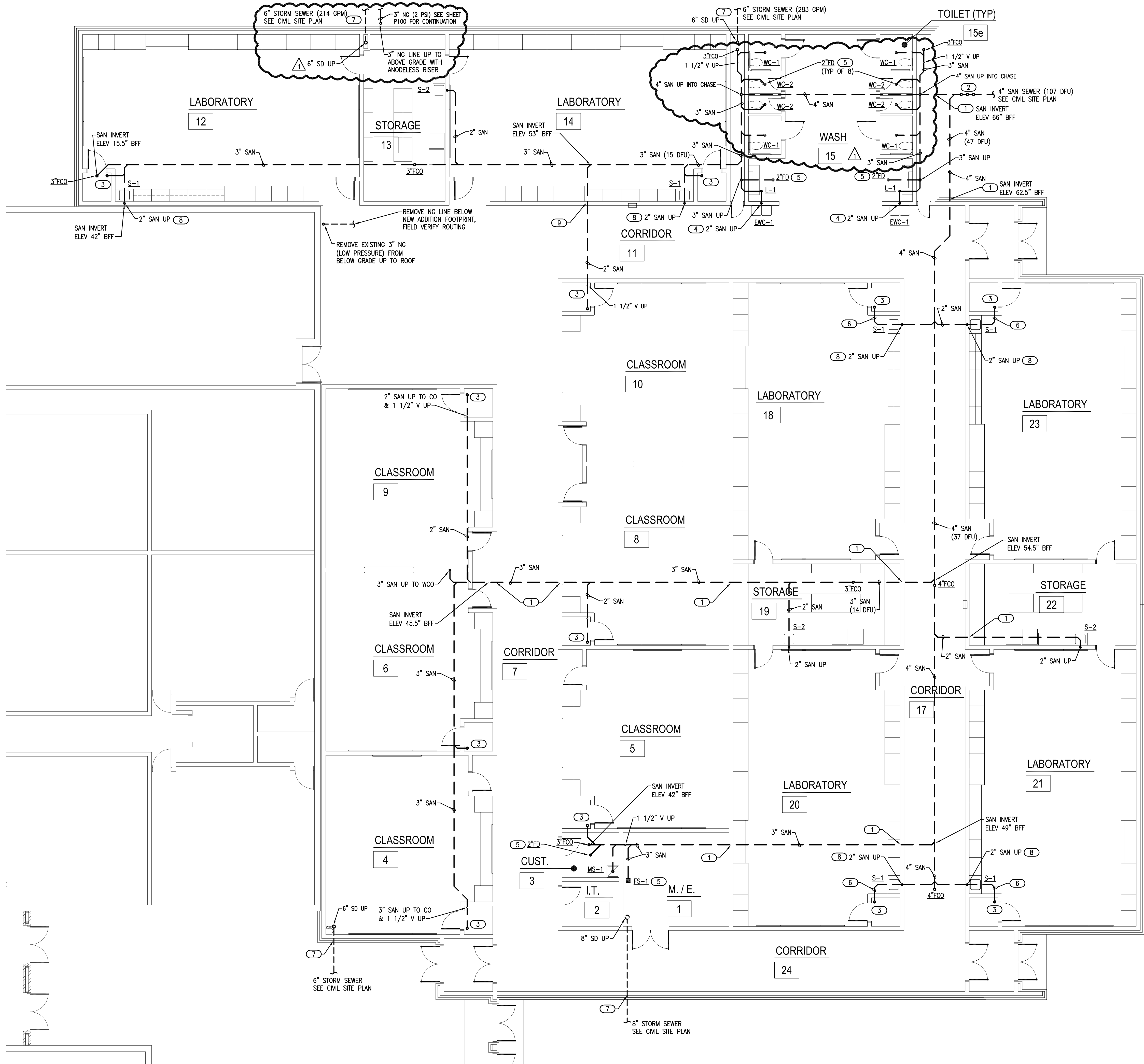
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Panel		ROOM	EXISTING ELEC	ROOM	VOLTS	480Y/277V	3P 4W	AIC	65,000
MDP-2		MOUNTING	SURFACE		BUS AMPS	1200		MAIN BKR	MLO
		FED FROM	UTILITY		NEUTRAL	100%		LUGS	STANDARD
		NOTE	EXISTING						
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	
1	225/3	59.7	PANEL H6		a 2	175/3	82	XFMR TM	
3					b 4				
5					c 6				
7	100/3	0	AC-2		a 8	100/3	0	XFMR T4L	
9					b 10				
11					c 12				
13	400/3	0	PANEL H4		a 14	400/3	0	PANEL H5	
15					b 16				
17					c 18				
19	20/1	0	SPACE		a 20	20/1	0	SPACE	
21	20/1	0	SPACE		b 22	20/1	0	SPACE	
23	20/1	0	SPACE		c 24	20/1	0	SPACE	
		CONN KVA	CALC KVA	(125%)			CONN KVA	CALC KVA	(50%>10)
LIGHTING		11.2	13.9	(125%)	RECEPTACLES		47.6	28.8	(50%>10)
LARGEST MOTOR		5.23	1.31	(25%)	HEATING		81.8	0	(100%)
MOTORS		1.21	1.21	(100%)	COOLING		77.8	0	(0%)
					TOTAL LOAD		127		
					BALANCED 3-PHASE LOAD		153 A		
					PHASE A		98.7%		
					PHASE B		102%		
					PHASE C		99.1%		

Panel		ROOM		MECH/ELEC RM 1		VOLTS		480Y/277V 3P 4W		AIC		65,000	
H6		MOUNTING		SURFACE		BUS AMPS		225		MAIN BKR		225	
		FED FROM		MDP-2		NEUTRAL		100%		LUGS		STANDARD	
NOTE													
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION					
1	20/1	1.87	LIGHTING		a 2	125/3	48.6	XFMR T6					
3	20/1	0.814	LIGHTING		b 4								
5	20/1	1.49	LIGHTING		c 6								
7	20/1	0.912	LIGHTING		a 8	20/1	0	SPACE					
9	20/1	1.68	LIGHTING		b 10	20/1	0	SPACE					
11	20/1	1.72	LIGHTING		c 12	20/1	0	SPACE					
13	20/1	0.488	LIGHTING		a 14	20/1	0	SPACE					
15	20/1	1.72	LIGHTING		b 16	20/1	0	SPACE					
17	20/1	0.773	LIGHTING		c 18	20/1	0	SPACE					
19	20/1	0	SPACE		a 20	20/1	0	SPACE					
21	20/1	0	SPACE		b 22	20/1	0	SPACE					
23	20/1	0	SPACE		c 24	20/1	0	SPACE					
25	20/1	0	SPACE		a 26	20/1	0	SPACE					
27	20/1	0	SPACE		b 28	20/1	0	SPACE					
29	20/1	0	SPACE		c 30	20/1	0	SPACE					
31	20/1	0	SPACE		a 32	20/1	0	SPACE					
33	20/1	0	SPACE		b 34	20/1	0	SPACE					
35	20/1	0	SPACE		c 36	20/1	0	SPACE					
37	20/1	0	SPACE		a 38	20/1	0	SPACE					
39	20/1	0	SPACE		b 40	20/1	0	SPACE					
41	20/1	0	SPACE		c 42	20/1	0	SPACE					
		CONN KVA	CALC KVA	(125%)			CONN KVA	CALC KVA	(100%)				
LIGHTING		11.5	14.3	(125%)	MOTORS		1.01	1.01	(100%)				
LARGEST MOTOR		0.528	0.132	(25%)	RECEPTACLES		47.6	28.8	(50%>10)				
					TOTAL LOAD		44.3						
					BALANCED 3-PHASE LOAD		53.2 A						
					PHASE A		98.4%						
					PHASE B		104%						
					PHASE C		97.3%						

Panel		ROOM	MECH/ELEC RM 1	VOLTS	208Y/120V	3P 4W	AIC	65,000	
L6		MOUNTING	SURFACE	BUS AMPS	225		MAIN BKR	MLO	
		FED FROM	T6	NEUTRAL	100%		LUGS	STANDARD	
		NOTE							
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	
1	20/1	0.72	RM 12 RECEPTACLE, SMARTBOARD, TEACHER DESK		a 2	20/1	1	RM 13 FRIDGE	
3	20/1	0.36	RM 12 RECEPTACLE		b 4	20/1	1.5	RM 13 FREEZER	
5	20/1	0.36	RM 12 RECEPTACLE		c 6	20/1	0.3	WATER COOLER	
7	20/1	0.54	RM 12 RECEPTACLE		a 8	20/1	0.3	WATER COOLER	
9	20/1	0.36	RM 12 RECEPTACLE		b 10	20/1	1	RM 22 FRIDGE	
11	20/1	0.54	RM 12 RECEPTACLE		c 12	20/1	1.5	RM 22 FREEZER	
13	20/1	0.54	RM 13 RECEPTACLE		a 14	20/1	1.5	RM 19 FREEZER	
15	20/1	0.54	RM 13 RECEPTACLE		b 16	20/1	1	RM 19 FRIDGE	
17	20/1	0.54	RM 14 RECEPTACLE		c 18	20/1	0.72	RM 9 RECEPTACLE, SMARTBOARD, TEACHER DESK	
19	20/1	0.36	RM 14 RECEPTACLE		a 20	20/1	0.54	RM 9 RECEPTACLE	
21	20/1	0.36	RM 14 RECEPTACLE		b 22	20/1	0.54	RM 9 RECEPTACLE	
23	20/1	0.36	RM 14 RECEPTACLE		c 24	20/1	0.54	RM 6 RECEPTACLE	
25	20/1	0.54	RM 14 RECEPTACLE		a 26	20/1	0.54	RM 6 RECEPTACLE	
27	20/1	0.72	RM 14 RECEPTACLE, SMARTBOARD, TEACHER DESK		b 28	20/1	0.72	RM 6 RECEPTACLE, SMARTBOARD, TEACHER DESK	
29	20/1	0.54	RM 15 RECEPTACLE		c 30	20/1	0.54	RM 4 RECEPTACLE	
31	20/1	0.54	CORRIDOR 11 RECEPTACLE		a 32	20/1	0.54	RM 4 RECEPTACLE	
33	20/1	0.72	RM 23 RECEPTACLE, SMARTBOARD, TEACHER DESK		b 34	20/1	0.72	RM 4 RECEPTACLE, SMARTBOARD, TEACHER DESK	
35	20/1	0.36	RM 23 RECEPTACLE		c 36	20/1	0.72	CORRIDOR 7 RECEPTACLE	
37	20/1	0.36	RM 23 RECEPTACLE		a 38	20/1	0.72	RM 10 RECEPTACLE, SMARTBOARD, TEACHER DESK	
39	20/1	0.54	RM 23 RECEPTACLE		b 40	20/1	0.54	RM 10 RECEPTACLE	
41	20/1	0.36	RM 23 RECEPTACLE		c 42	20/1	0.54	RM 10 RECEPTACLE	
43	20/1	0.54	RM 23 RECEPTACLE		a 44	20/1	0.54	RM 8 RECEPTACLE	
45	20/1	0.54	RM 22 RECEPTACLE		b 46	20/1	0.54	RM 8 RECEPTACLE	
47	20/1	0.54	RM 22 RECEPTACLE		c 48	20/1	0.72	RM 8 RECEPTACLE, SMARTBOARD, TEACHER DESK	
49	20/1	0.54	RM 21 RECEPTACLE		a 50	20/1	0.54	RM 5 RECEPTACLE	
51	20/1	0.36	RM 21 RECEPTACLE		b 52	20/1	0.54	RM 5 RECEPTACLE	
53	20/1	0.36	RM 21 RECEPTACLE		c 54	20/1	0.72	RM 5 RECEPTACLE, SMARTBOARD, TEACHER DESK	
55	20/1	0.36	RM 21 RECEPTACLE		a 56	20/1	0.36	RM 1 RECEPTACLE, RM 3 RECEPTACLE	
57	20/1	0.54	RM 21 RECEPTACLE		b 58	20/1	0.5	IT RECEPTACLE	
59	20/1	0.72	RM 21 RECEPTACLE, SMARTBOARD, TEACHER DESK		c 60	20/1	0.5	IT RECEPTACLE	
61	20/1	0.72	CORRIDOR 24 RECEPTACLE		a 62	20/1	0.5	IT RECEPTACLE	
63	20/1	0.72	RM 18 RECEPTACLE, SMARTBOARD, TEACHER DESK		b 64	20/1	0.24	WH-1	
65	20/1	0.36	RM 18 RECEPTACLE		c 66	20/1	0.24	WH-2	
67	20/1	0.36	RM 18 RECEPTACLE		a 68	20/1	0.528	CP-1	
69	20/1	0.54	RM 18 RECEPTACLE		b 70	20/1	0.72	TRAP PRIMER	
71	20/1	0.36	RM 18 RECEPTACLE		c 72	20/1	0.72	TRAP PRIMER	
73	20/1	0.54	RM 18 RECEPTACLE		a 74	20/1	0.54	TRAP PRIMER	
75	20/1	0.54	RM 19 RECEPTACLE		b 76	20/1	0.36	TRAP PRIMER	
77	20/1	0.54	RM 19 RECEPTACLE		c 78	20/1	0.72	TRAP PRIMER	
79	20/1	0.54	RM 20 RECEPTACLE		a 80	20/1	0.72	ROOFTOP RECEPTACLE	
81	20/1	0.36	RM 20 RECEPTACLE		b 82	20/1	0	SPACE	
83	20/1	0.36	RM 20 RECEPTACLE		c 84	20/1	0	SPACE	
85	20/1	0.36	RM 20 RECEPTACLE		a 86	20/1	0	SPACE	
87	20/1	0.54	RM 20 RECEPTACLE		b 88	20/1	0	SPACE	
89	20/1	0.72	RM 20 RECEPTACLE, SMARTBOARD, TEACHER DESK		c 90	20/1	0	SPACE	
91	20/1	0	SPACE		a 92	20/1	0	SPACE	
93	20/1	0	SPACE		b 94	20/1	0	SPACE	
95	20/1	0	SPACE		c 96	20/1	0	SPACE	
97	20/1	0	SPACE		a 98	20/1	0	SPACE	
99	20/1	0	SPACE		b 100	20/1	0	SPACE	
101	20/1	0	SPACE		c 102	20/1	0	SPACE	
103	20/1	0	SPACE		a 104	20/1	0	SPACE	
105	20/1	0	SPACE		b 106	20/1	0	SPACE	
107	20/1	0	SPACE		c 108	20/1	0	SPACE	
		CONN KVA	CALC KVA				CONN KVA	CALC KVA	
LARGEST MOTOR		0.528	0.132	(25%)	MOTORS RECEPTACLES		1.01 47.6	1.01 28.8	(100%) (50%>10)
					TOTAL LOAD		29.9		
					BALANCED 3-PHASE LOAD		83.1 A		
					PHASE A		101%		
					PHASE B		103%		
					PHASE C		95.7%		



- GENERAL NOTES
1.

COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
2.

COORDINATE ALL BELOW GRADE PIPE ROUTING WITH STRUCTURAL FOUNDATIONS AND REQUIRED PIPE SLEEVES THRU FOUNDATION PENETRATIONS.
3.

FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
4.

PRIOR TO COMMENCING WORK, COORDINATE WITH SITE CONTRACTOR FOR SANITARY SEWER AND WATER INVERT ELEVATIONS.
5.

REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P601 FOR FIXTURE ROUGH-IN PIPE SIZES AND ADDITIONAL SIZES ON ISOMETRIC P401.
6.

PIPE TRENCHES SHALL HAVE SAND BEDDING TO A MINIMUM POINT 6" ABOVE THE TOP OF PIPE. REFER TO SPECIFICATION SECTION 22 05 00.
7.

INSTALL BELOW FLOOR 1/2" CW LINE TYPE K COPPER OR PEX-a FOR TRAP PRIMER TO FLOOR DRAINS. SLOPE LINE CONTINUOUSLY TOWARDS DRAIN. SEE DETAIL 1/P501.

- KEYED NOTES
- 1

PROVIDE CAST IRON PIPE SLEEVE FOR SANITARY PIPE BELOW GRADE BEAM. INSTALL FOAM SPACER BLOCKS TO MAINTAIN PIPE IN CENTER OF SLEEVE. COORDINATE PIPE SLEEVE INSTALLATION WITH STRUCTURAL.
- 2

INSTALL 4" SANITARY BACKWATER VALVE AND 4" EXTERIOR CLEANOUT. PROVIDE CONCRETE PAD AT GRADE. SEE DETAIL 4/P501.
- 3

ROUTE 2" SANITARY LINE UP TO 2" AFF AND INSTALL 2x4 FITTING FOR HUB DRAIN. COORDINATE INSTALLATION WITH MC. ROUTE TRAP PRIMER LINE TO HUB DRAIN. MC TO ROUTE FURNACE CONDENSATE DRAIN LINES TO HUB DRAIN. SEE DETAIL1/P501.
- 4

COORDINATE WITH STRUCTURAL FOR ROUTING SANITARY UP TO ABOVE GRADE BEAM AND UP INTO WALL ABOVE.
- 5

INSTALL BELOW FLOOR 1/2" CW LINE TYPE K COPPER OR PEX-a FOR TRAP PRIMER TO FLOOR DRAIN. SLOPE LINE CONTINUOUSLY TOWARDS DRAIN. SEE DETAIL 1/P501.
- 6

2" SANITARY LINE SERVING HUB DRAIN HAS MAXIMUM HEIGHT OF 42" FROM OPENING TO TRAP WEIR PER PLUMBING CODE. LOCATE AS REQUIRED TO ROUTE UNDER GRADE BEAM.
- 7

PROVIDE CAST IRON PIPE SLEEVE FOR STORM PIPE THRU FOUNDATION WALL. INSTALL FOAM SPACER BLOCKS TO MAINTAIN PIPE IN CENTER OF SLEEVE. COORDINATE PIPE SLEEVE INSTALLATION WITH STRUCTURAL.
- 8

ROUTE 2" SANITARY LINE BELOW GRADE BEAM WITH 2" SANITARY UP THRU GRADE BEAM TO SERVE SINK. PROVIDE CAST IRON PIPE SLEEVE THRU GRADE BEAM. INSTALL FOAM SPACER BLOCKS TO MAINTAIN PIPE IN CENTER OF SLEEVE. COORDINATE PIPE SLEEVE INSTALLATION WITH STRUCTURAL.
- 9

DROP 2" SANITARY TO GO UNDER GRADE BEAM. PROVIDE CAST IRON PIPE SLEEVE FOR SANITARY PIPE UNDER GRADE BEAM. INSTALL FOAM SPACER BLOCKS TO MAINTAIN PIPE IN CENTER OF SLEEVE. COORDINATE PIPE SLEEVE INSTALLATION WITH STRUCTURAL.

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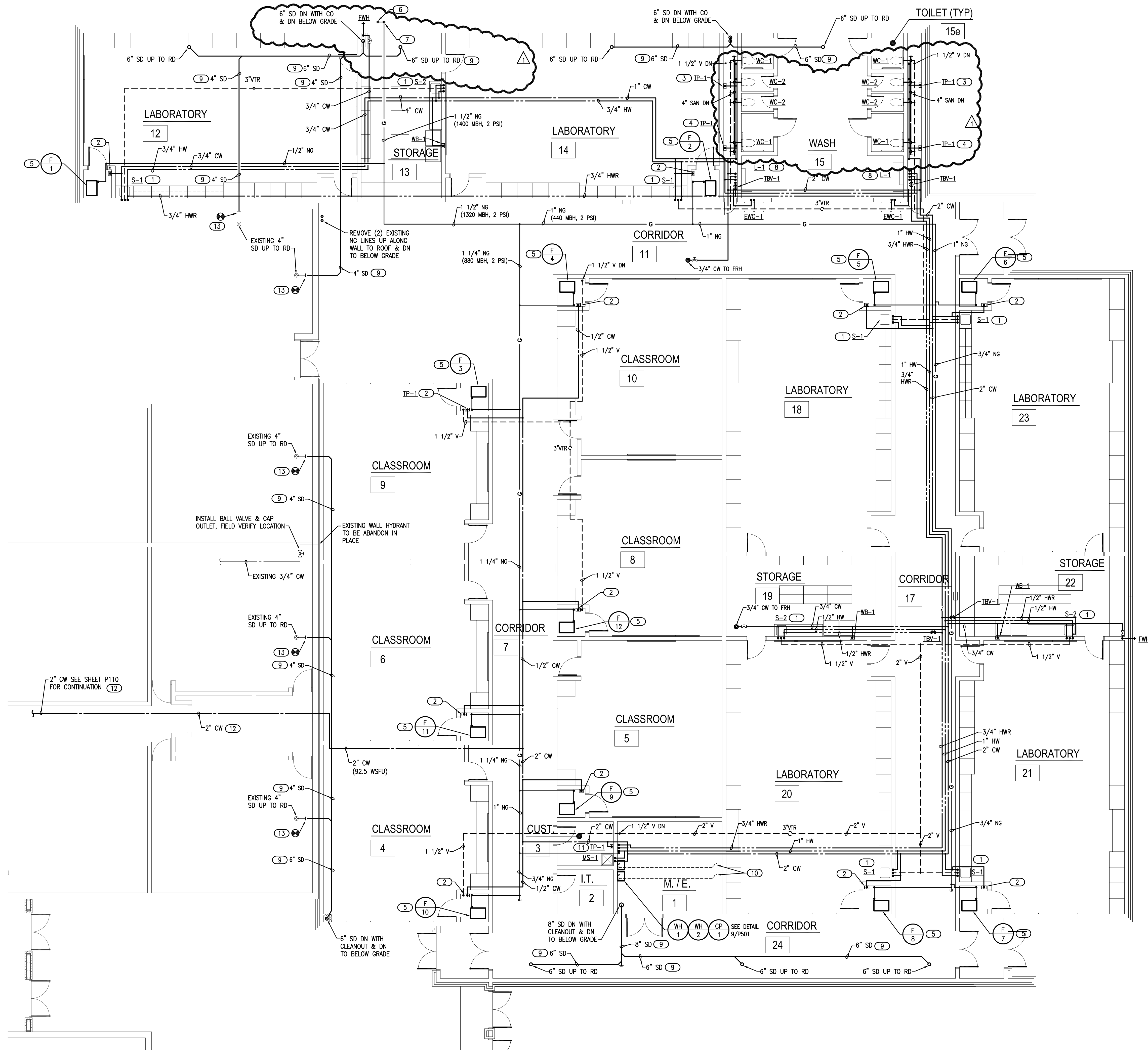
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1 PLUMBING PLAN - BELOW GRADE
1/8" = 1'-0"





1 PLUMBING PLAN - ABOVE GRADE

1/8" = 1'-0"

- ### GENERAL NOTES
- COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
 - PROVIDE WATER HAMMER ARRESTORS (HA) ON WATER LINES TO FLUSH VALVES, SENSOR FAUCETS AND QUICK CLOSING VALVES. LOCATE UNITS IN ACCESSIBLE LOCATIONS.
 - SINK AND LAVATORY WATER SUPPLY STUB OUTS SHALL BE COPPER PIPE WITH SUPPORT BRACKET FASTENED IN WALL CAVITY.
 - FIRE SEAL ALL PENETRATIONS THRU RATED STRUCTURES TO MAINTAIN FIRE RATING.
 - REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P601 FOR FIXTURE ROUGH-IN PIPE SIZES AND ADDITIONAL SIZES ON ISOMETRIC P402.
 - PROVIDE ACCESS PANELS FOR ALL VALVES/DEVICES ABOVE HARD CEILINGS AND BEHIND WALLS.
 - ALL GAS PIPE SHALL COMPLY WITH IFGC. BRANCH LINES SHALL TAP OFF TOP OF GAS MAINS AND INSTALL SHUT-OFF VALVE ON BRANCH LINE.
 - TRAP PRIMER LINES SHALL BE COPPER TYPE "K" OR PEX-g TUBING WITH CONTINUOUS SLOPE TOWARDS DRAIN CONNECTION.
 - COORDINATE HEIGHT OF EXTERIOR FREEZELESS WALL HYDRANT (FWH) WITH GC AND/OR ARCHITECT. SEAL FIXTURE FLANGE WATERTIGHT.

- ### KEYED NOTES
- INSTALL THERMOSTATIC MIXING VALVE (TMV-1) BELOW SINK. CLASSROOM SINKS SEE DETAIL 8/P501. STORAGE ROOM SINKS SEE DETAIL 5/P501.
 - PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-1) IN ACCESSIBLE LOCATION IN FURNACE CLOSET. ROUTE 1/2" LINE FROM UNIT TO HUB DRAIN. COORDINATE POWER WITH EC. SEE DETAIL 1/P501.
 - PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-1) IN ACCESSIBLE LOCATION ON WALL IN PLUMBING CHASE. ROUTE (4) 1/2" LINES FROM DISTRIBUTION UNIT TO FLOOR DRAINS IN TOILET ROOMS. SEE DETAIL 1/P501.
 - PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-1) IN ACCESSIBLE LOCATION ON WALL IN PLUMBING CHASE. ROUTE (2) 1/2" LINES FROM DISTRIBUTION UNIT TO FLOOR DRAINS IN TOILET ROOM AND NEAR LAVATORY. SEE DETAIL 1/P501.
 - ROUTE 1/2" NATURAL GAS (2 PSI) LINE TO FURNACE. PROVIDE BALL VALVE, DRIP LEG, PRESSURE REGULATOR (2 PSI TO 7" W.C.) AND FINAL UNIT CONNECTION. COORDINATE CONNECTION WITH MC. SEE DETAIL 7/P501.
 - ROUTE 3" NATURAL GAS (3450 MBH, 2 PSI) UP FROM BELOW GRADE WITH SHUT-OFF VALVE AT 2'-0" ABOVE GRADE. PROVIDE 1 1/2" NG BRANCH LINE THEN TRANSITION TO 2 1/2" NG (2 PSI) AND ROUTE UP ALONG WALL TO ROOF. SEE SHEET P201 FOR CONTINUATION.
 - PROVIDE 1 1/2" NATURAL GAS (1400 MBH, 2 PSI) WITH SHUT-OFF VALVE FROM 3" NG RISER. ROUTE 1 1/2" NG INTO NEW ADDITION ABOVE CEILING.
 - INSTALL THERMOSTATIC MIXING VALVE (TMV-1) BELOW LAVATORY L-1. ROUTE 1/2" HWR LINE FROM FIXTURE WITH THERMOSTATIC BALANCING VALVE (TBV-1) PRIOR TO CONNECTION TO HWR MAIN SEE DETAIL 6/P501.
 - INSULATED STORM DRAIN WITH SLOPE AT 1/8" PER FOOT.
 - WATER HEATER 2" CONCENTRIC VENT UP THRU ROOF.
 - PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-1) IN ACCESSIBLE LOCATION ON WALL IN CUST RM 3. ROUTE (3) 1/2" LINES FROM DISTRIBUTION UNIT TO FLOOR DRAIN, HUB DRAIN AND FLOOR SINK. SEE DETAIL 1/P501.
 - COORDINATE WITH GC FOR CEILING REMOVAL AND REPLACEMENT FOR INSTALLING NEW COLD WATER MAIN THRU EXISTING BUILDING TO NEW ADDITION.
 - REMOVE SECTION OF EXISTING STORM DRAIN AS REQUIRED FOR CONNECTION OF NEW 4" STORM DRAIN AND EXTEND INTO NEW ADDITION. COORDINATE WITH GC FOR CEILING REMOVAL AND REPLACEMENT TO ACCESS STORM DRAIN LINES.

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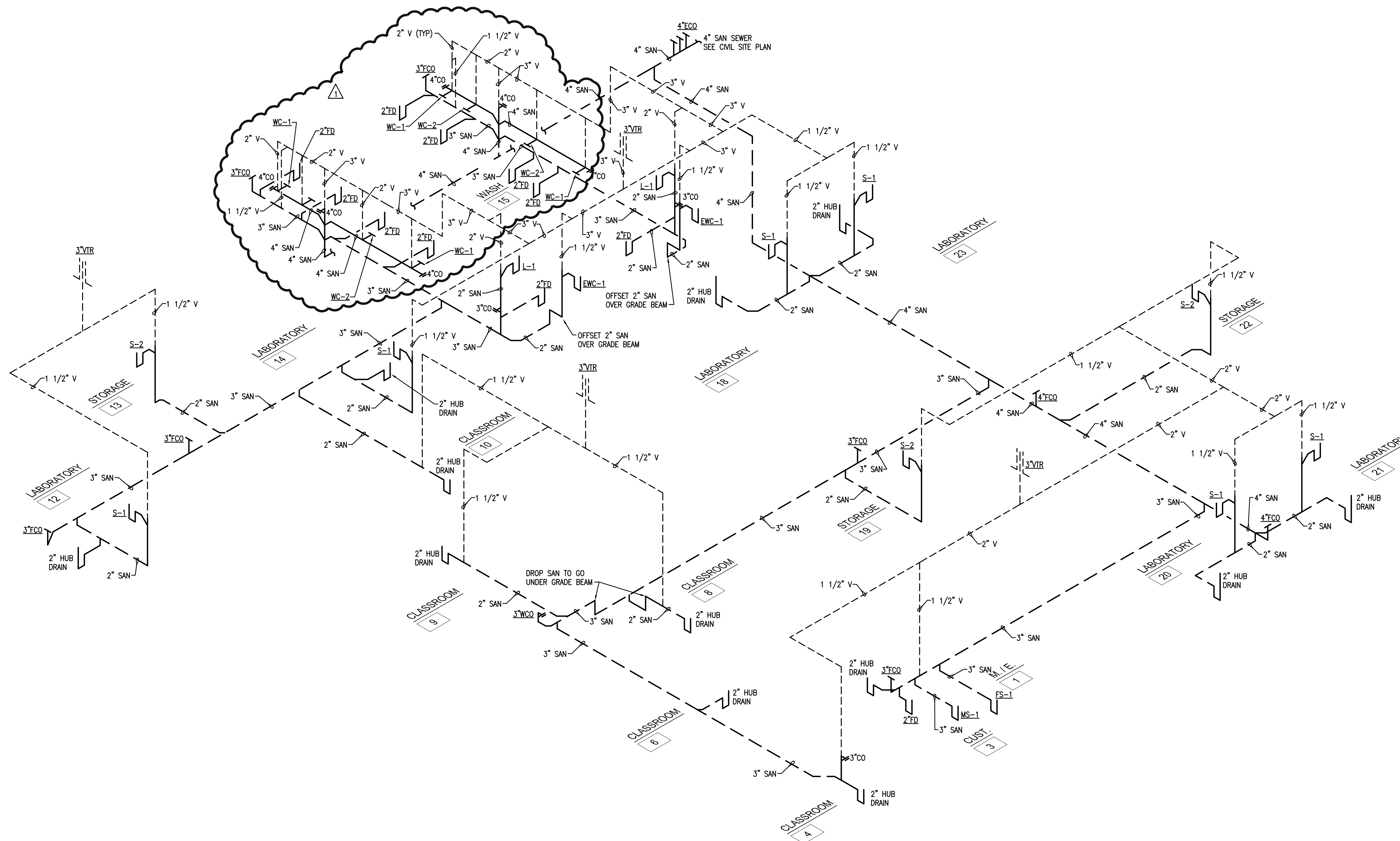


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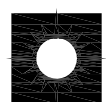
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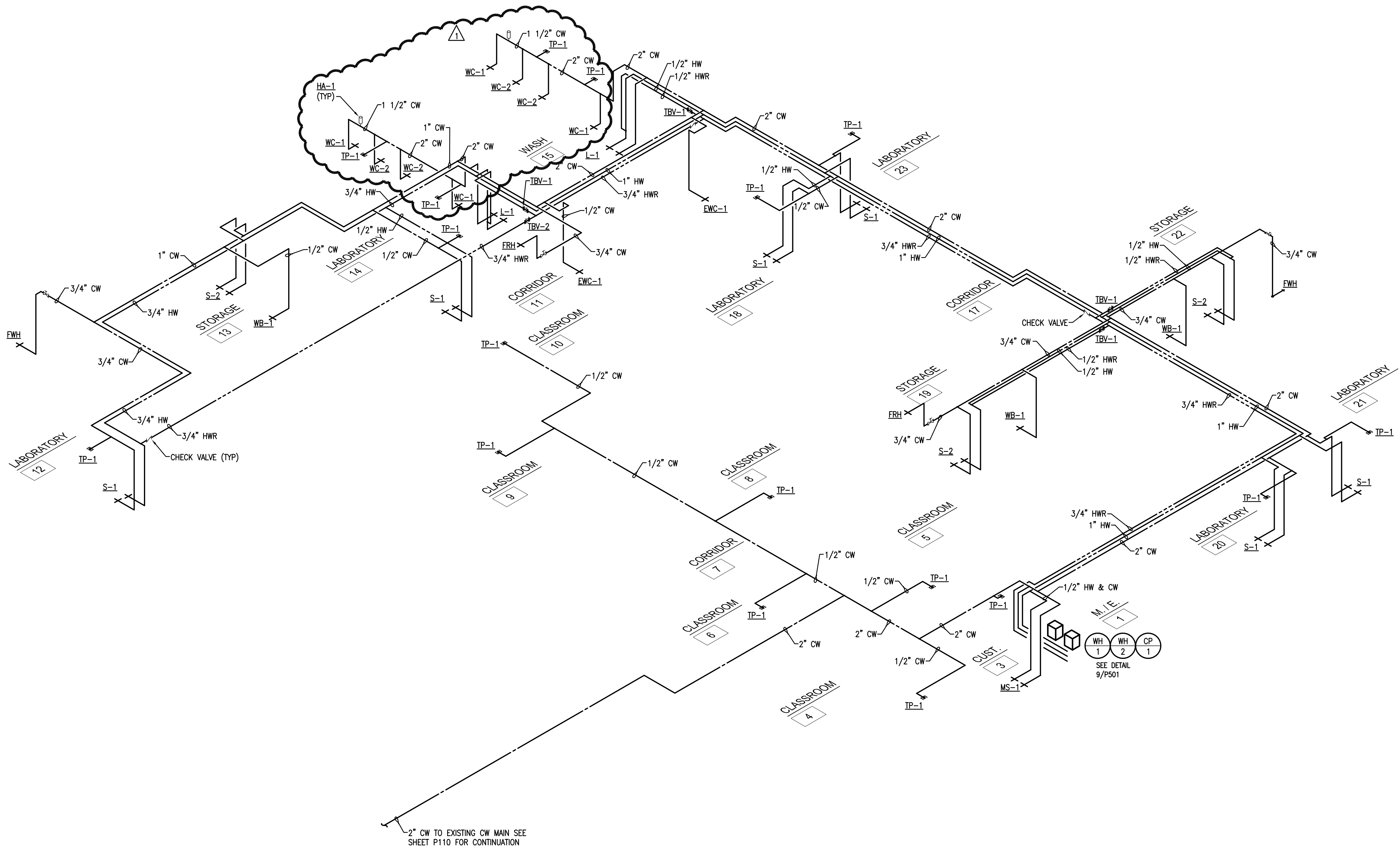
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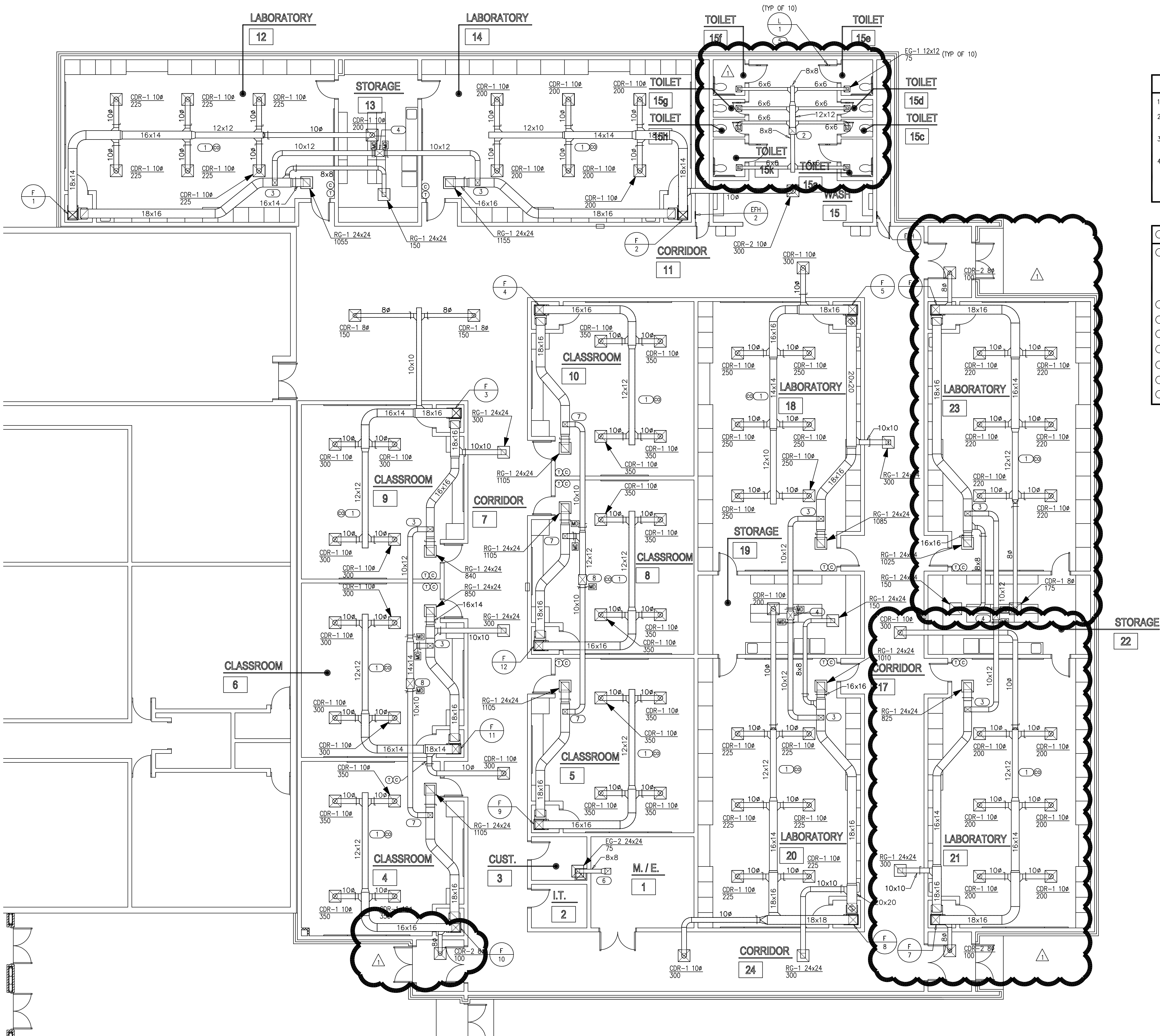
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1 PLUMBING ISOMETRIC - WATER SUPPLY

NTS



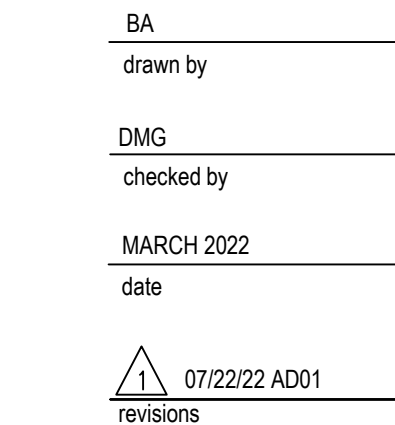
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NOTES: M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSION, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.

1. PROVIDE CONCENTRIC VENT. INSTALL PER MANUFACTURER INSTRUCTIONS. MAINTAIN MINIMUM CLEARANCES: 36" BETWEEN VENTS, 10'-0" FROM ANY FRESH AIR INTAKE.
2. PROVIDE CO₂ SENSOR, INSTALLATION BY CONTROLS CONTRACTOR. INTERLOCK CO₂ SENSOR WITH MOTORIZED DAMPER IN OUTSIDE AIR DUCT.
3. PROVIDE FURNACE WITH 2 STAGE HEATING.

NOTES: M.C. IS RESPONSIBLE FOR PROVIDING ALL NECESSARY DIMENSION, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.

1. PROVIDE PAINTED KYNAR FINISH. COLOR BY ARCHITECT.
2. PROVIDE SLIP FIT COLLAR.

NOTES:

SEE PLANS FOR QUANTITY AND SIZES.
M.C. TO FIELD VERIFY CEILING TYPE FOR ALL GRD BEFORE PURCHASING EQUIPMENT. PROVIDE REQUIRED MOUNTING.

NOTES:

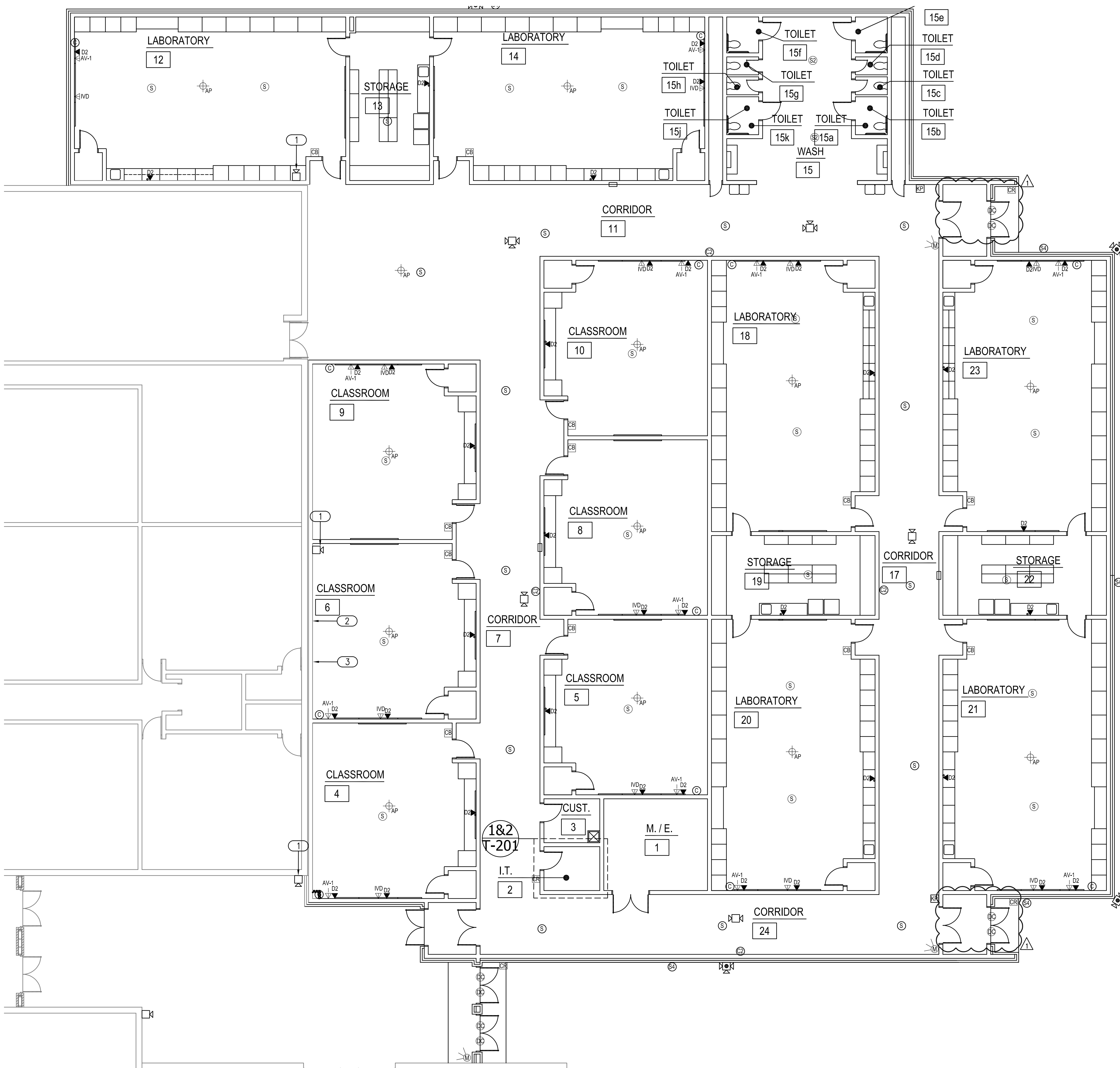
NOTES: 1. W.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSIONAL, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.

1. PROVIDE ELECTRONIC SPEED CONTROL MOUNTED ABOVE ACCESSIBLE CEILING.
2. M.C. SHALL PROVIDE LOW VOLTAGE MOTORIZED DAMPER.
3. OPERATION OF DEVICE ON OCCUPIED MODE OF RTU OR SWITCH WITH LIGHTS. SEE INTERLOCK/CONTROL COLUMN FOR TYPE.

NOTES:	<p>M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSION, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.</p> <ol style="list-style-type: none"> 1. PROVIDE INTERNAL THERMOSTAT. 2. RECESSED MOUNTED UNIT. PROVIDE RECESSED MOUNTING KIT. 3. MANUFACTURER PROVIDED BUILT-IN DISCONNECT. 4. WALL MOUNTING HEIGHT AFF AT A MINIMUM OF 18" OR PER MANUFACTURER'S RECOMMENDATION.
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NOTES: M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSIONAL, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.

1. M.C. TO PROVIDE ROOF HOOD WITH ALUMINUM BIRDSCREEN.
2. M.C. SHALL PROVIDE ROOF CURB. CURB INSTALLATION BY G.C.
3. M.C. SHALL PROVIDE LOW VOLTAGE MOTORIZED DAMPER.



1 TECHNOLOGY PLAN

1/8" = 1'-0"



GENERAL NOTES

- COORDINATE ALL FINAL MOUNTING HEIGHTS, FOR WALL MOUNTED DEVICES, PRIOR TO ROUGH-IN. COORDINATE WITH ARCHITECT, OWNER AND ENGINEER.
- COORDINATE ALL CEILING DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS AND INTERIOR DESIGN CONSULTANT(F APPLICABLE) PRIOR TO ROUGH-IN.
- REFERENCE TECHNOLOGY PLANS, OVERALL PLANS, NOTES & LEGENDS, ELECTRICAL PLAN AND THEATRICAL PLANS FOR ADDITIONAL INFORMATION AND DEVICE/OUTLET LOCATIONS.
- CONTRACTOR TO COORDINATE ALL DROP LOCATIONS WITH FURNITURE. COORDINATE WITH ARCHITECT AND OWNER FOR MORE INFORMATION.

KEYED NOTES

- REMOVE EXISTING CAMERA AND RETURN TO MPS TECHNOLOGY.
- REMOVE EXISTING BELL.
- REMOVE EXISTING INTERCOM PAGING HORN AND RETURN TO OWNER.

FIRE ALARM

- FIRE ALARM SYSTEM IS A PERFORMANCE BASED. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

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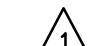
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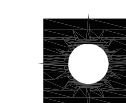
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