SALASO'BRIEN

expect a difference

2600 Van Buren Street | Suite 2635 Norman, Oklahoma 73072 405.364.9926 | www.salasobrien.com

ADDENDUM No. 1

Client: Abla 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 At	tachments	
Moore We	st 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

Erin Bevill Controls Manager EarthSmart Controls, LLC

Company:	Signature:
Date:	Printed Name:
Title:	PO #:

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
С	¢	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	1	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. 56W, 4500 LUMENS, 3500K CCT. 90 MINUTE BATTERY BACKUP, MULLION MOUNTED.	HUBBELL	RN D X 6 7 35K8 AS DL UNV XXX M EN
S] 1	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: REVIEW IN ACCORDANCE WITH THE SPECIFICATIONS.

ELE	CTRICAL LEGEND
	PANEL BOARD
	DISTRIBUTION PANEL BOARD
T	TRANSFORMER
\square	UTILITY METER
CB	SEPARATE CIRCUIT BREAKER
	DISCONNECT
₽	FUSED DISCONNECT SWITCH
	EMERGENCY FUSED DISCONNECT SWITCH
\boxtimes	MOTOR STARTER/CONTRACTOR
Хh	COMBINATION MOTOR STARTER
H•	PUSH BUTTON STATION AS NOTED
Р	PULL BOX, SIZE AS REQUIRED BY CODE
\bigcirc	ELECTRICAL CONNECTION
ρ	MOTOR CONNECTION
\sim	HOME RUN TO PANEL BOARD

SWITCH LEGEND	
SYMBOL	DESCRIPTION
\$	20A, 120/277V SPST SWITCH
\$a	20A, 120/277V LETTER INDICATES GROUP
\$3	20A, 120/277V 3-WAY
\$4	20A, 120/277V 4-WAY
\$D	DIMMER SWITCH
\$к	KEY OPERATED SWITCH
\$ _{oc}	OCCUPANCY SENSOR SWITCH

GENERAL NOTE: SEE SPECIFICATIONS FOR MANUFACTURERS

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

OCC SENSOR SCHEDULE						
SYMBOL DESCRIPTION						
69	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:						

1. E.C. SHALL CONTACT ARCHITECT FOR COLOR SELECTION PRIOR TO ORDER OF ANY SENSOR.

2. FOR CEILING SPACES 14 FT. A.F.F. PIR TYPE CEILING MOUNTED SENSORS SHALL BE USED.

3. WALL MOUNTED DEVICES TO MATCH MANUAL LIGHTING CONTROL.

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

GENERAL NOTE: SEE SPECIFICATIONS FOR MANUFACTURERS

GENERAL ELECTRICAL NOTES

CONTRACTOR TO VERIFY EXISTING ELECTRICAL CONDITIONS AND NOTIFY ARCHITECT/ENGINEER OF ANY ELECTRICAL OR CODE ISSUES PRIOR TO BID. CONTRACTÓR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL CODE COMPLIANT SYSTEM.

- ALL WORK SHALL BE IN CONFORMANCE WITH NATIONAL, STATE, AND LOCAL CODES AND/OR ORDINANCES.
- 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.
- SEE ARCHITECTURAL, MECHANICAL, & PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- 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.
- 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.
- INSTALL LIGHTING FIXTURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUPPORTING DEVICES FOR ADEQUATE SUPPORT OF FIXTURES FROM STRUCTURE.
- 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.
- 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	МС	MECHANICAL CONTRACTOR
AFF	ABOVE FINISH FLOOR	МСА	MINIMUM CIRCUIT AMPS
AFG	ABOVE FINISH GRADE	MDP	MAIN DISTRIBUTION PANEL
ANNC	ANNUNICIATOR	MTD	MOUNTED
СС	CONTROLS CONTRACTOR	NIC	NOT IN CONTRACT
DF	DRINKING FOUNTAIN	000	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



201 N. BROADWAY SUITE 210 MOORE, OK. 73160 405.735.3477 AGP@theAGP.net www.theAGP.net

KFC ENGINEERING STRUCTURAL

SALAS O'BRIEN MECHANICAL / ELECTRICAL



DW drawn by TVO checked by MARCH 2022 date

1 07/22/22 AD01 revisions

MOORE PUBLIC SCHOOLS BOARD OF EDUCATION MOORE, OKLAHOMA



MOORE Rublic Schools

CLASSROOM ADDITION MOOREWEST JUNIOR HIGH SCHOOL

sheet no:

E000



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

OWNERSHIP USE OF DOCUMENTS:



- OCCUPANCY SENSOR LOCATIONS ARE FOR DESIGN INTENT ONLY. LOCATE OCCUPANCY SENSORS PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
- CONNECT BATTERY PACKS TO UNSWITCHED HOT OF LOCAL LIGHTING CIRCUIT.
- COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF LIGHT FIXTURES WITH HVAC EQUIPMENT AND OTHER DEVICES/EQUIPMENT.
- COORDINATE LIGHT SWITCHES WITH THERMOSTATS AND OTHER WALL MOUNTED DEVICES.
- 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.
- REFER TO '8/E501' FOR ADDITIONAL INFORMATION REGARDING RESTROOM LIGHTING CONTROLS.



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KFC ENGINEERING STRUCTURAL

SALAS O'BRIEN MECHANICAL / ELECTRICAL



DW
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TVO
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MARCH 2022
date

07/22/22 AD01 revisions

MOORE PUBLIC SCHOOLS BOARD OF EDUCATION MOORE, OKLAHOMA



CLASSROOM ADDITION MOOREWEST JUNIOR HIGH SCHOOL

sheet no:

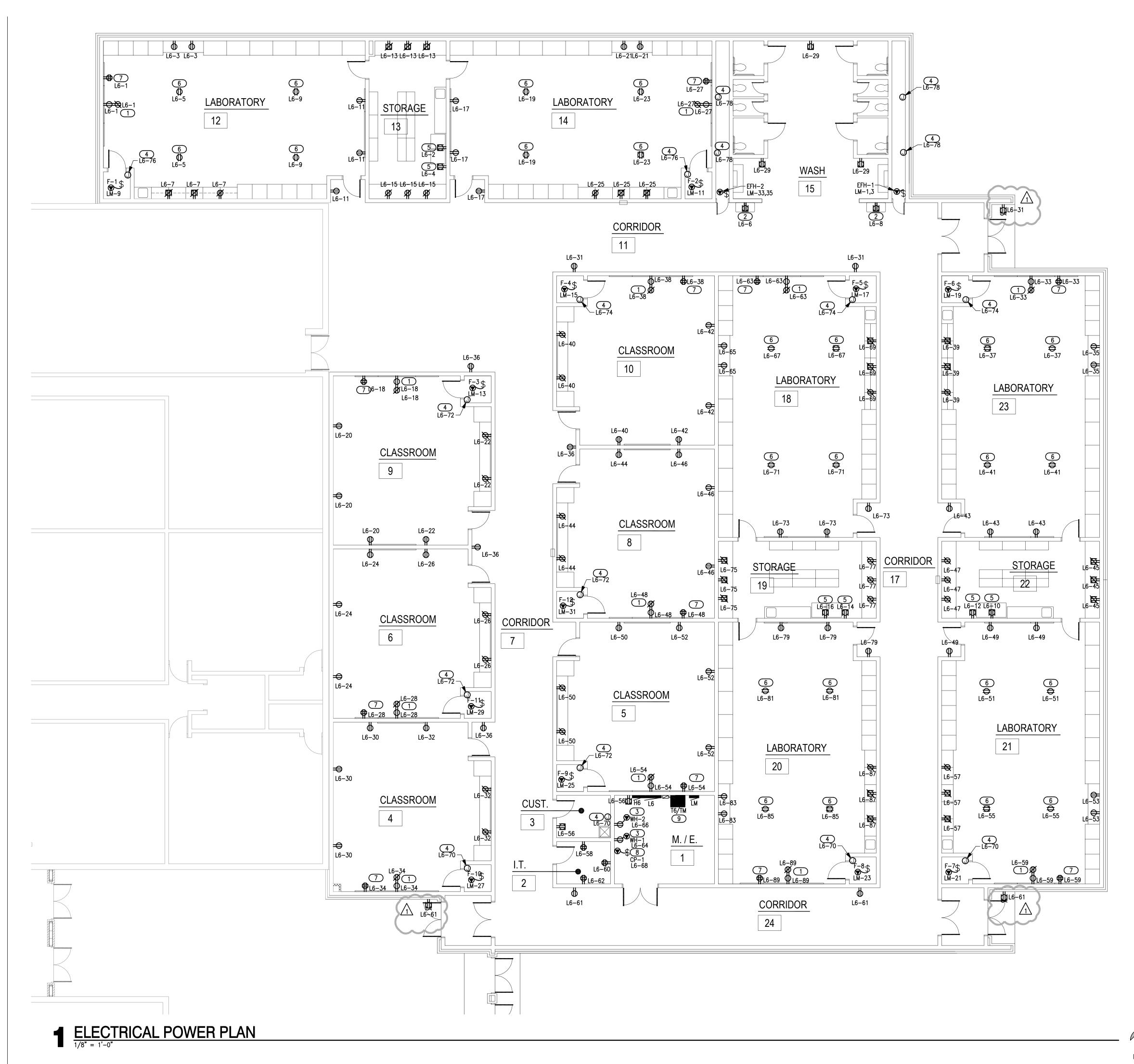
E101



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

OWNERSHIP USE OF DOCUMENTS:



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

KEYED NOTES

- 1 RECEPTACLE FOR SMART BOARD (BY OWNER) IN A RECESSED BACK BOX. REFER TO DETAIL 'E501/9' FOR ADDITIONAL INFORMATION.
- 2 PROVIDE 120V RECEPTACLE FOR WATER COOLER. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO ROUGH
- 3 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.
- 5 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.
- 6 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.
- 7 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.
- 8 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.
- 9 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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KFC ENGINEERING

SALAS O'BRIEN MECHANICAL / ELECTRICAL



DW drawn by

TVO checked by

MARCH 2022 date

07/22/22 AD01 revisions

MOORE PUBLIC SCHOOLS BOARD OF EDUCATION MOORE, OKLAHOMA



MOORE Public Schools

CLASSROOM ADDITION MOOREWEST JUNIOR HIGH SCHOOL

sheet no:

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

OWNERSHIP USE OF DOCUMENTS:

		0	ROOM E MOUNTING	EXISTING ELEC ROOM	VOLTS 4 BUS AMPS	80Y/277V 1200	3P 4W	AIC 65,000 MAIN BKR	MLO	Pa	nel		ROOM MECH, MOUNTING
\mathbb{N}	IDP -	-2	FED FROM	I UTILITY	NEUTRAL	100%		LUGS STAN			.6		FED FROM
			NOTE E	EXISTING				1					NOTE
CKT #	CKT BKR	LOAD KVA	CIRCUIT	DESCRIPTION	CK #	CKT BKR	LOAD KVA	CIRCUIT DESCRIP	ΓΙΟΝ		CKT BKR	LOAD KVA	CIRCUIT DESC
1	225/3	59.7	PANEL H	16	a 2	175/3	82	XFMR TM		1	20/1	0.72	RM 12 RECEP TEACHER DES
3 5					b 4 c 6					3	20/1	0.36	RM 12 RECEP
7	100/3	0	AC-2		a 8	100/3	0	XFMR T4L		5	20/1	0.36	RM 12 RECEP
9					b 10						20/1	0.54	RM 12 RECEP
11 13	400/3	0	PANEL H	IA	c 12 a 14	 400/3	0	PANEL H5		9	20/1 20/1	0.36 0.54	RM 12 RECEP RM 12 RECEP
15					b 16	40075		FANEL HJ		13	20/1	0.54	RM 13 RECEP
17	i				c 18	ļi				15	20/1	0.54	RM 13 RECEP
19	20/1	0	SPACE		1 1	20/1	0	SPACE		17	20/1	0.54	RM 14 RECEP
21 23	20/1 20/1	0	SPACE SPACE		b 22 c 24	20/1	0	SPACE SPACE		19	20/1	0.36	RM 14 RECEP
20		ľ								21	20/1	0.36	RM 14 RECEP
	<u> </u>									23 25	20/1 20/1	0.36 0.54	RM 14 RECEP RM 14 RECEP
		-	CONN KVA	CALC KVA				IN KVA CALC KVA		27	20/1	0.72	RM 14 RECEP
	Ghting Rgest Mot(l 1.2 5.23	13.9(125%)1.31(25%)	RECE	PTACLES	47.6 81.8		(50%>10) (100%)				TEACHER DES
	DTORS		1.21	1.21 (100%)	COOL		77.8		(0%)	29 31	20/1	0.54 0.54	RM 15 RECEP CORRIDOR 11
					TOTA	LOAD		127		33	20/1 20/1	0.72	RM 23 RECEF
						NCED 3-PH	HASE LOAD	153 A					TEACHER DES
					Pha: Pha:			98.7% 102%		35	20/1	0.36	RM 23 RECEP RM 23 RECEP
					PHA	SE C		99.1%			20/1	0.50	KM ZJ RECEP
											20/1	0.54	RM 23 RECEP
Pai	rel			MECH/ELEC RM 1		80Y/277V	3P 4W	AIC 65,000		41	20/1	0.36	RM 23 RECEP
	6		MOUNTING FED FROM		BUS AMPS NEUTRAL	225 100 %		MAIN BKR LUGS STAN	225 חארו	43 45	20/1 20/1	0.54 0.54	RM 23 RECEP RM 22 RECEP
I	\bigcirc		NOTE			100/0				47	20/1	0.54	RM 22 RECEP
CKT	CKT BKR	LOAD KVA		DESCRIPTION	СКТ	CKT BKR	LOAD KVA		ΓΙΟΝ	49	20/1	0.54	RM 21 RECEP
<u>#</u>	20/1	1.87			#		48.6	XFMR T6	non	51	20/1	0.36	RM 21 RECEP
3	20/1	0.814	LIGHTING		a 2 b 4	125/3	40.0			53	20/1	0.36	RM 21 RECEP
5	20/1	1.49	LIGHTING	$ \underline{1} $	c 6	ļi				55	20/1	0.36	RM 21 RECEP
7	20/1	0.912			a 8	20/1	0	SPACE					
9 11	20/1 20/1	1.68 1.72	LIGHTING		b 10 c 12	20/1 20/1	0	SPACE SPACE		57 59	20/1 20/1	0.54	RM 21 RECEP RM 21 RECEP
13	20/1	0.488	LIGHTING		1 1	20/1	0	SPACE				0.72	TEACHER DES
15	20/1	1.72	LIGHTING		1 1	20/1	0	SPACE		61	20/1	0.72	CORRIDOR 24
17 19	20/1	0.773	LIGHTING SPACE)	c 18 a 20	20/1	0	SPACE		63	20/1	0.72	RM 18 RECEP TEACHER DES
21	20/1 20/1	0	SPACE		a 20 b 22	20/1 20/1	0	SPACE SPACE		65	20/1	0.36	RM 18 RECEP
23	20/1	0	SPACE		1 1	20/1	0	SPACE		67	20/1	0.36	RM 18 RECEP
25	20/1	0	SPACE			20/1	0	SPACE		69 71	20/1	0.54 0.36	RM 18 RECEP RM 18 RECEP
27 29	20/1 20/1	0	SPACE SPACE		b 28 c 30	20/1 20/1	0	SPACE SPACE		73	20/1 20/1	0.56	RM 18 RECEP
2 <i>3</i> 31	20/1	0	SPACE		1 1	20/1	0	SPACE		75	20/1	0.54	RM 19 RECEP
33	20/1	0	SPACE		b 34	20/1	0	SPACE		77	20/1	0.54	RM 19 RECEP
35	20/1	0	SPACE		1 1	20/1	0	SPACE		79 81	20/1 20/1	0.54 0.36	RM 20 RECEF
37 39	20/1 20/1	0	SPACE SPACE			20/1 20/1	0	SPACE SPACE		83	20/1	0.36	RM 20 RECEP
41	20/1	0	SPACE		1 1	20/1	0	SPACE		85	20/1	0.36	RM 20 RECEP
										87	20/1	0.54	RM 20 RECEP
	L		L CONN KVA	CALC KVA		<u> </u>	 	I IN KVA CALC KVA		89	20/1	0.72	RM 20 RECEF
	GHTING	-	11.5	14.3 (125%)	мото	RS	1.01		(100%)	91	20/1	0	SPACE
11/	711110		D.528	0.132 (25%)		RS	47.6		(100%) (50%>10)	93	20/1	0	SPACE
	RGEST MOTO			. ,		_ LOAD		44.3		95 97	20/1 20/1	0	SPACE SPACE
	RGEST MOT									1 10/			I OF MOL
	rgest mot				BALAI	NCED 3-PH	IASE LOAD	53.2 A		99	1 ·	0	SPACE
	RGEST MOT				BALAI PHA:	SE A	IASE LOAD	98.4%		99 101	20/1 20/1		SPACE
	rgest Mot				BALAI	SEA SEB	iase load			99	20/1	0	

			MPS	08Y/120V 225 100%	JP 4W	N	AIC 65,000 MAIN BKR LUGS STAN	
	NOTE	UIK	AL	100%		L	1063 STAN	DARD
	 		Іскт	СКТ	LOAD			
	CIRCUIT DESCRIPTION		#	BKR	KVA	CIRCL	JIT DESCRIPT	ION
	RM 12 RECEPTACLE, SMARTBOARD,	a	2	20/1	1	RM 13	3 FRIDGE	
	TEACHER DESK RM 12 RECEPTACLE	b	4	20/1	1.5		3 FREEZER	
	RM 12 RECEPTACLE	c	6	20/1	0.3		R COOLER	
	RM 12 RECEPTACLE	a	8	20/1	0.3		R COOLER	
	RM 12 RECEPTACLE	b	10	20/1	1		2 FRIDGE	
	RM 12 RECEPTACLE	c	12	20/1	1.5		2 FREEZER	
	RM 13 RECEPTACLE	a	14	20/1	1.5	RM 19	FREEZER	
	RM 13 RECEPTACLE	b	16	20/1	1	RM 19	9 FRIDGE	
	RM 14 RECEPTACLE	c	18	20/1	0.72			, SMARTBOARD,
	RM 14 RECEPTACLE		20	00 /1	0.54		HER DESK	
	RM 14 RECEPTACLE	a b	20	20/1 20/1	0.54 0.54		RECEPTACLE RECEPTACLE	
	RM 14 RECEPTACLE	c	24	20/1	0.54		RECEPTACLE	
	RM 14 RECEPTACLE	a	26	20/1	0.54		RECEPTACLE	
	RM 14 RECEPTACLE, SMARTBOARD,	b	28	20/1	0.72			, SMARTBOARD,
	TEACHER DESK					TEAC	HER DESK	
	RM 15 RECEPTACLE	С	30	20/1	0.54		RECEPTACLE	
	CORRIDOR 11 RECEPTACLE	a	32	20/1	0.54		RECEPTACLE	
	RM 23 RECEPTACLE, SMARTBOARD, TEACHER DESK	b	34	20/1	0.72			, SMARTBOARD,
	RM 23 RECEPTACLE	c	36	20/1	0.72		HER DESK IDOR 7 RECEI	
	RM 23 RECEPTACLE	a	38	20/1	0.72			E, SMARTBOARD,
		ľ			0.72		HER DESK	
	RM 23 RECEPTACLE	b	40	20/1	0.54		D RECEPTACL	E
	RM 23 RECEPTACLE	с	42	20/1	0.54		D RECEPTACL	
	RM 23 RECEPTACLE	a		20/1	0.54		RECEPTACLE	
	RM 22 RECEPTACLE	b		20/1	0.54		RECEPTACLE	
	RM 22 RECEPTACLE	С	48	20/1	0.72			, SMARTBOARD,
	RM 21 RECEPTACLE	a	50	20/1	0.54		HER DESK RECEPTACLE	
	RM 21 RECEPTACLE	b	50	20/1	0.54		RECEPTACLE	
	RM 21 RECEPTACLE	c		20/1	0.72			, SMARTBOARD,
		ľ	.				HER DESK	,
	RM 21 RECEPTACLE	a	56	20/1	0.36		RECEPTACLE,	, RM 3
							PTACLE	
	RM 21 RECEPTACLE	b	58	20/1	0.5		CEPTACLE	
	RM 21 RECEPTACLE, SMARTBOARD, TEACHER DESK	c	60	20/1	0.5	IT RE	CEPTACLE	
	CORRIDOR 24 RECEPTACLE	0	62	20/1	0.5		CEPTACLE	
	RM 18 RECEPTACLE, SMARTBOARD,	b	1	20/1	0.24	WH-1		
	TEACHER DESK		[
	RM 18 RECEPTACLE	с		20/1	0.24	WH-2		
	RM 18 RECEPTACLE	a	68	20/1	0.528	CP-1		
	RM 18 RECEPTACLE	b	70	20/1	0.72		PRIMER	
	RM 18 RECEPTACLE	c	72	20/1	0.72		PRIMER	
	RM 18 RECEPTACLE	a		20/1	0.54		PRIMER	
	RM 19 RECEPTACLE	b	•	20/1	0.36		PRIMER	
	RM 19 RECEPTACLE RM 20 RECEPTACLE	C		20/1	0.72 0.72		PRIMER TOP RECEPTA	
	RM 20 RECEPTACLE	a b	80	20/1 20/1	0.72	SPAC		ULL
	RM 20 RECEPTACLE	C		20/1	0	SPAC		
	RM 20 RECEPTACLE	a		20/1	0	SPAC		
	RM 20 RECEPTACLE	b	88	20/1	0	SPAC		
	RM 20 RECEPTACLE, SMARTBOARD,	c		20/1	0	SPAC		
	TEACHER DESK							
	SPACE		1	20/1	0	SPAC		
	SPACE	b	94	20/1	0	SPAC		
	SPACE	c	96	20/1	0	SPAC		
	SPACE	a	98	20/1	0	SPAC		
	SPACE SPACE	b		20/1 20/1	0	SPAC SPAC		
	SPACE	a		20/1	0	SPAC		
	SPACE	b	•	20/1	0	SPAC		
	SPACE		108	20/1	0	SPAC		
					-			
~								
	ONN KVA CALC KVA					NN KVA	CALC KVA	(4000)
U	.528 0.132 (25%)	MOTORS RECEPTACLES			1.0 ⁻ 47.		1.01 28.8	(100%) (50%>10)
				LOAD	.,.	-	29.9	(
				LUAD NCED 3-PH	IASE LOAD		29.9 83.1 A	
			PHAS	SE A			101%	
			PHAS				103%	

LARGEST MOTOR

Par	nel			MECH/ELEC		VOLTS		08Y/120V	3P 4W	AIC	
L	Μ		Mounting Fed Fron Note		ACE	BUS A NEUTR		400 100%		MAII LUG	
CKT #	CKT BKR	LOAD KVA	CIRCUIT	DESCRIPTI	ON		CKT #	CKT BKR	LOAD KVA	CIRCUIT	
1	20/2	2	EFH-1			a	2	45/2	4.69	CU-1	
3						b	4				
5	20/1	0.1	EF-1			С	6	45/2	4.69	CU-2	
7	20/1	0.1	EF-2			a	8				
9	25/1	1.66	F-1			b	10	45/2	4.69	CU-3	
11	25/1	1.66	F-2			c	12				
13	25/1	1.66	F-3			a	14	45/2	4.69	CU-4	
15	25/1	1.66	F-4			b	16				
17	30/1	1.92	F-5			c	18	50/2	5.23	CU-5	
19	25/1	1.66	F-6			a	20				
21	25/1	1.66	F-7			b	22	45/2	4.69	CU-6	
23	30/1	1.92	F-8			c	24				
25	25/1	1.66	F-9			a	26	45/2	4.69	CU-7	
27	25/1	1.66	F-10			b	28				
29	25/1	1.66	F-11			c	30	50/2	5.23	CU-8	
31	25/1	1.66	F-12			a	32				
33	20/2	2	EFH-2			b	34	45/2	4.69	CU-9	
35			SPARE			С	36				
37	20/1	0	SPARE			a	38	45/2	4.69	CU-10	
39	20/1	0	SPACE			b	40		4.00		
41 4 7	20/1	0	SPACE			С	42	45/2	4.69	CU-11	
43 45	20/1	0	SPACE				44		4.00		
45 47	20/1	0	SPACE			b	46	45/2	4.69	CU-12	
47 40	20/1	0	SPACE SPACE			c	48				
49 51	20/1	0	SPACE			a b	50 52	20/1	0	SPARE	
51 53	20/1 20/1	0	SPACE				52	20/1	0	SPARE	
55			SPACE			c	104	20/1	0	SPARE	
	1		CONN KVA	CALC KVA	A	I	1	1			2
ΙA	rgest mo ⁻	IOR	5.23	1.31	— (25%)		τοται	LOAD		8	-
	TORS		0.2	0.2	(100%)				HASE LOAD	2	
	ATING		81.8	81.8	(100%)		PHAS			- 98	
	OLING		77.8	0	(0%)		PHAS			1(0
00			, , .0	U	(0/0)		PHAS	SE C		1	

MECHANICAL E	QUIPMENT SCHEDULE										
CALLOUT	DESCRIPTION	VOLTS	HP	KVA	MCA	MOCP	CIRCUIT	WIRE CALLOUT	DISCONNECT	DISC PROV BY	DISC INST BY
CP-1	CIRCULATION PUMP	120V 1P 2W	1/6 HP	0.53		20	L6-68	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
CU-1	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	LM-2,4	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-2	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	LM-6,8	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-3	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	LM-10,12	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-4	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	LM-14,16	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-5	CONDENSING UNIT	208V 2P 2W		5.23	31.4	50	LM-18,20	3/4"C,2#8,#10G	NON-FUSED	EC	EC
CU-6	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	LM-22,24	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-7	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	LM-26,28	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-8	CONDENSING UNIT	208V 2P 2W		5.23	31.4	50	LM-30,32	3/4"C,2#8,#10G	NON-FUSED	EC	EC
CU-9	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	LM-34,36	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-10	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	LM-38,40	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-11	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	LM-42,44	3/4"C,2#10,#10G	NON-FUSED	EC	EC
CU-12	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	LM-46,48	3/4"C,2#10,#10G	NON-FUSED	EC	EC
EF-1	EXHAUST FAN	120V 1P 2W	F HP	0.1	3.8	20	LM-5	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MC	мс
EF-2	EXHAUST FAN	120V 1P 2W	F HP	0.1	3.8	20	LM-7	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	МС	мс
EFH-1	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2	9.6	20	LM-1,3	3/4"C,2#10,#10G	TOGGLE SWITCH	MFR	MFR
EFH-2	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2	9.6	20	LM-33,35	3/4"C,2#10,#10G	TOGGLE SWITCH	MFR	MFR
F-1	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	13.8	25	LM-9	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MFR	MFR
F-2	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	13.8	25	LM-11	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MFR	MFR
F-3	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	13.8	25	LM-13	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MFR	MFR
F-4	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	13.8	25	LM-15	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MFR	MFR
F-5	GAS FURNACE	120V 1P 2W	1 HP	1.92	16	30	LM-17	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MFR	MFR
F-6	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	13.8	25	LM-19	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	MFR	MFR
F-7	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	13.8	25	LM-21	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	MFR	MFR
F8	GAS FURNACE	120V 1P 2W	1 HP	1.92	16	30	LM-23	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	MFR	MFR
F-9	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	13.8	25	LM-25	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	MFR	MFR
F-10	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	13.8	25	LM-27	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	MFR	MFR
F-11	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	13.8	25	LM-29	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	MFR	MFR
F-12	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	13.8	25	LM-31	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	MFR	MFR
WH-1	WATER HEATER	120V 1P 2W		0.24	2	20	L6-64	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC
WH-2	WATER HEATER	120V 1P 2W		0.24	2	20	L6-66	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC

С	65,00	00
AIN	BKR	400
IGS	ST	ANDARD

T DESCRIPTION

CALC KVA 83.3 231 A 98.9% 100% 101%



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KFC ENGINEERING STRUCTURAL

SALAS O'BRIEN MECHANICAL / ELECTRICAL



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CLASSROOM ADDITION MOOREWEST JUNIOR HIGH SCHOOL

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E601

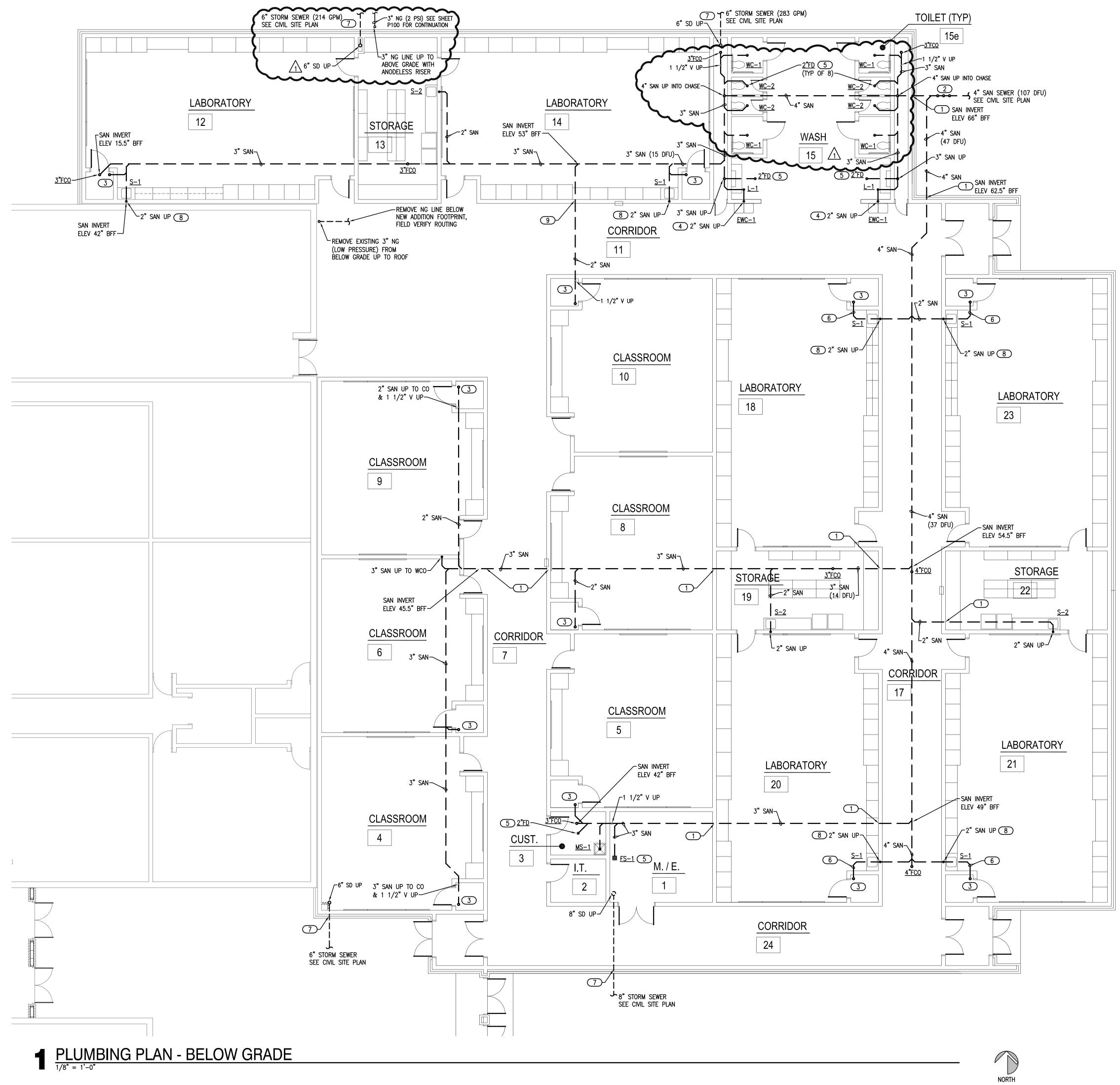


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- COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
- COORDINATE ALL BELOW GRADE PIPE ROUTING WITH STRUCTURAL FOUNDATIONS AND REQUIRED PIPE SLEEVES THRU FOUNDATION PENETRATIONS.
- FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- PRIOR TO COMMENCING WORK, COORDINATE WITH SITE CONTRACTOR FOR SANITARY SEWER AND WATER INVERT ELEVATIONS.
- REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P601 FOR FIXTURE ROUGH-IN PIPE SIZES AND ADDITIONAL SIZES ON ISOMETRIC P401.
- PIPE TRENCHES SHALL HAVE SAND BEDDING TO A MINIMUM POINT 6" ABOVE THE TOP OF PIPE. REFER TO SPECIFICATION SECTION 22 05 00.
- 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.

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(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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KFC ENGINEERING STRUCTURAL

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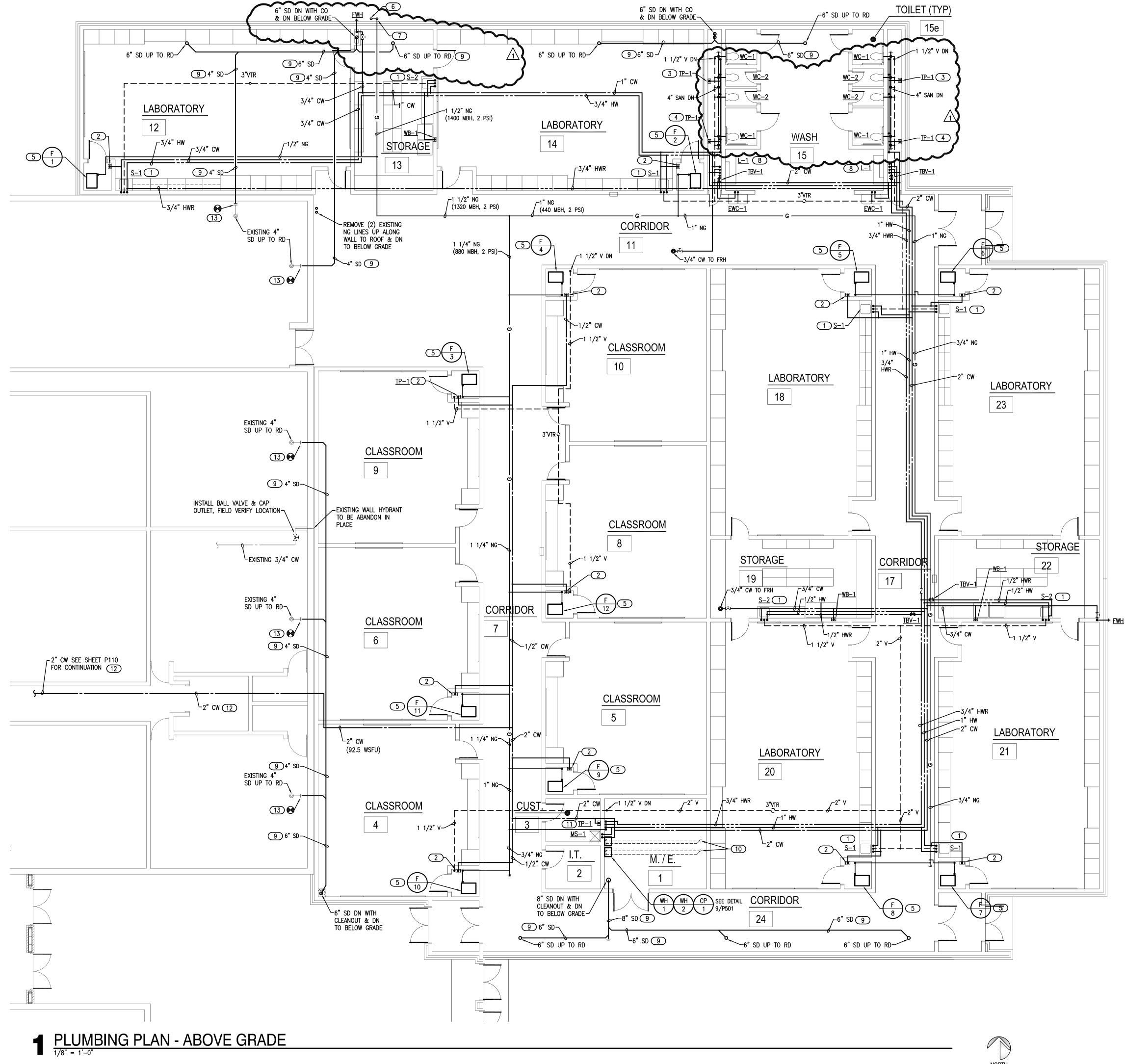
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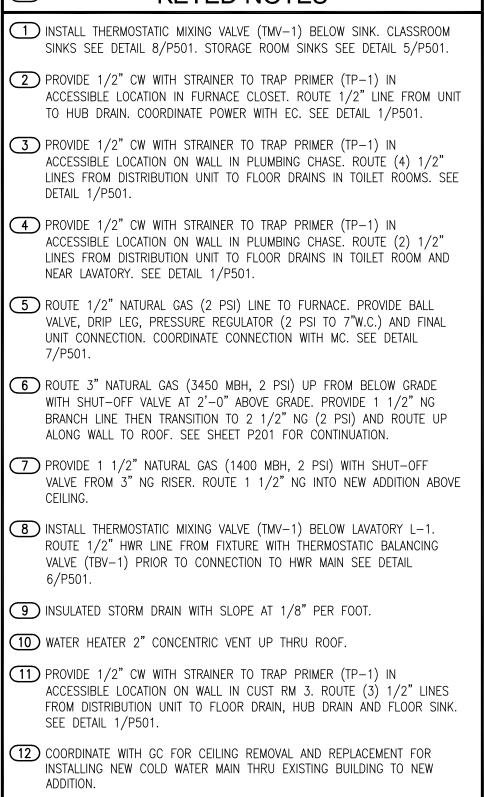


NORTH

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-a 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



(13) 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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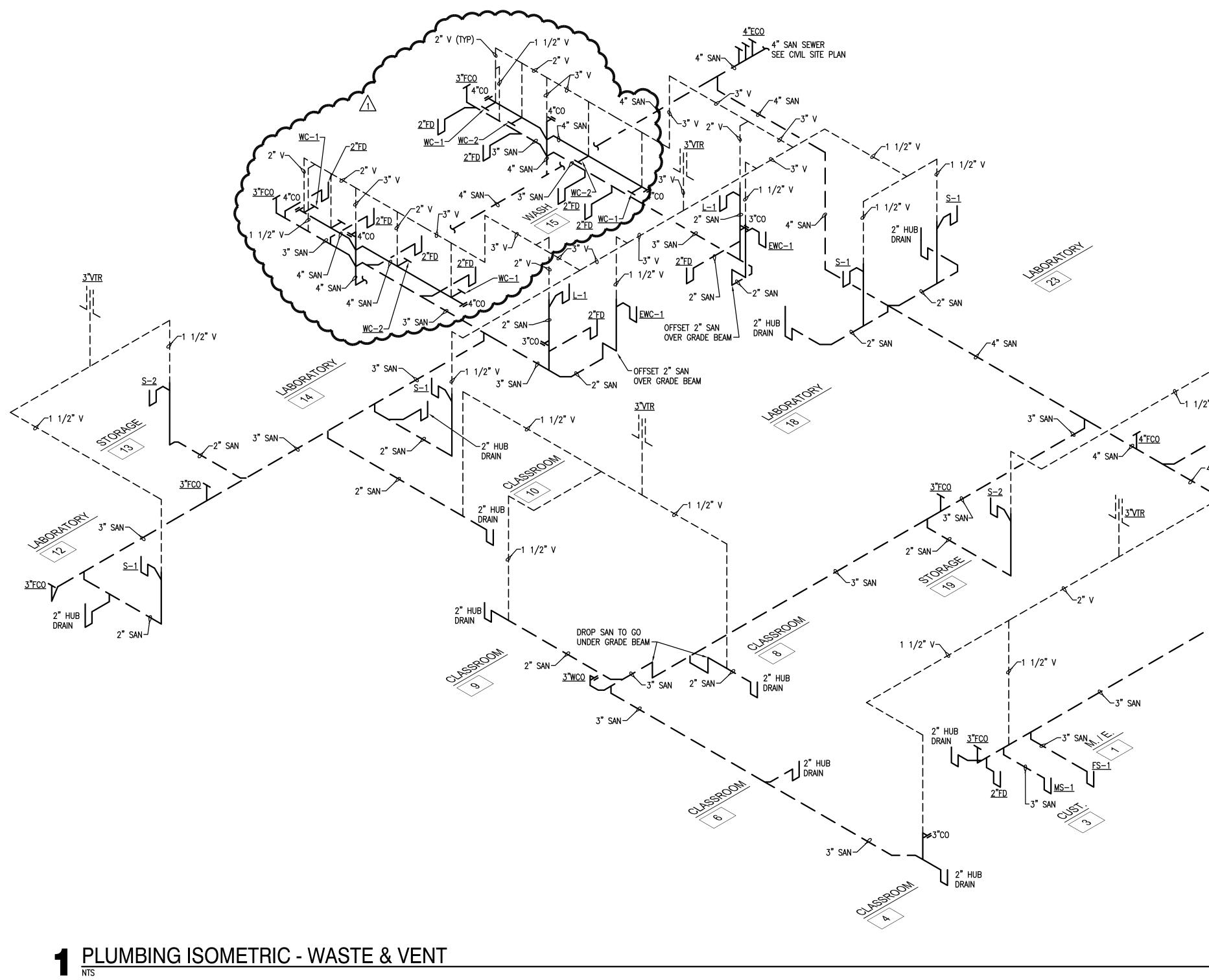
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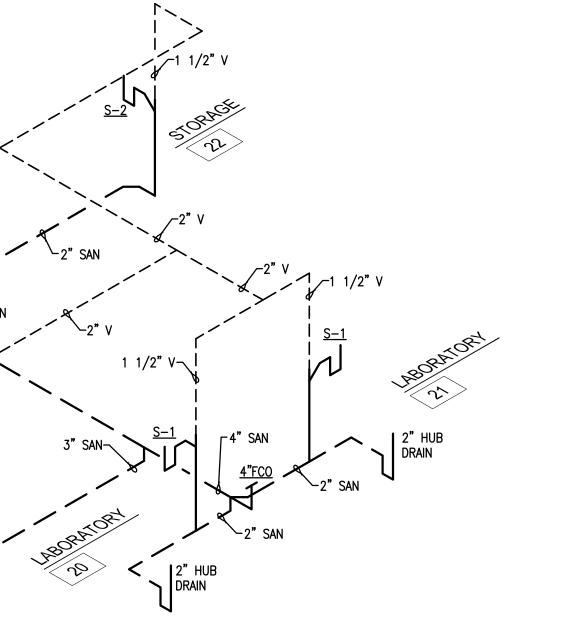
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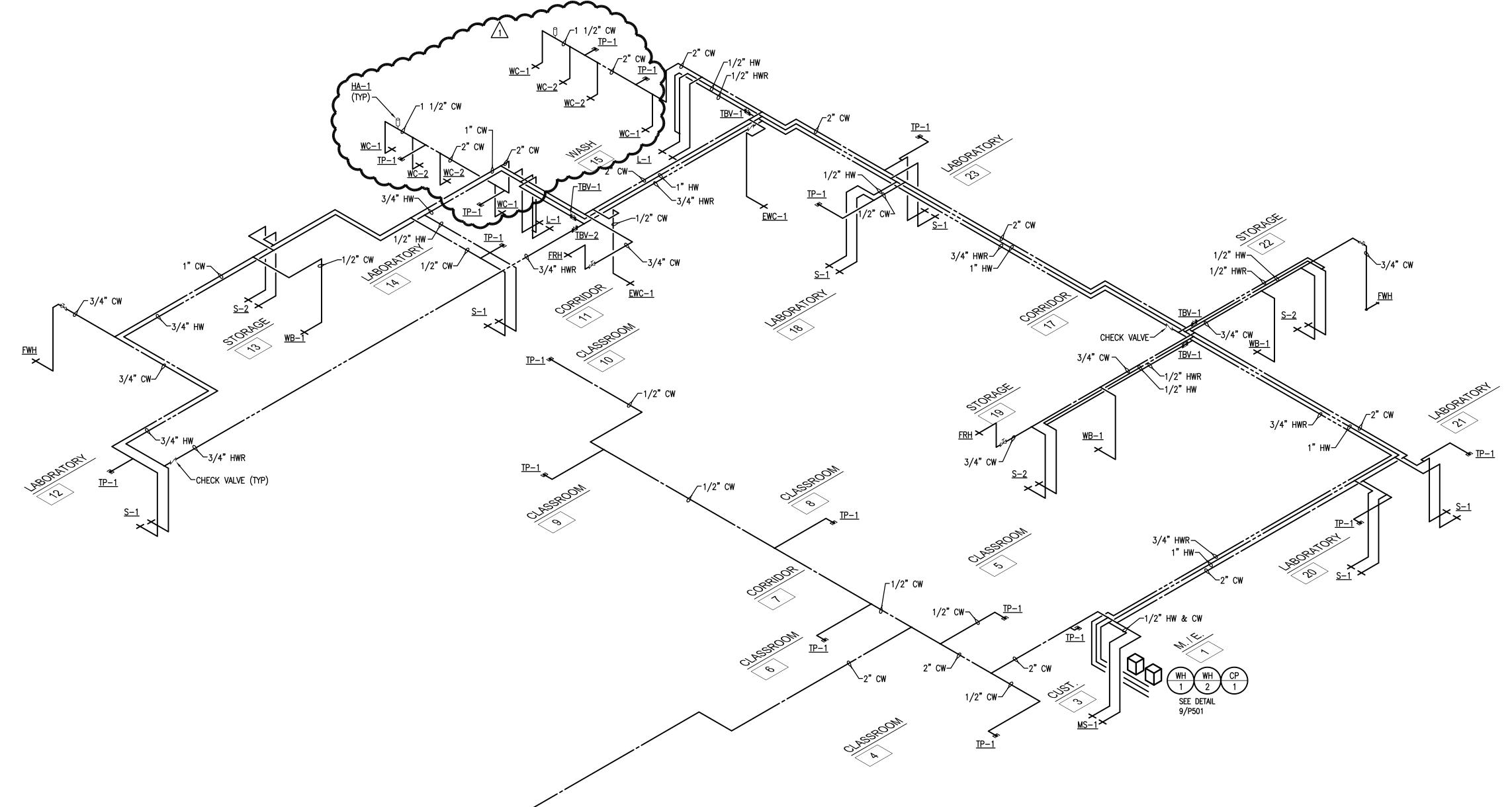


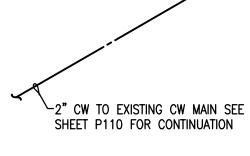


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PLUMBING ISOMETRIC - WATER SUPPLY



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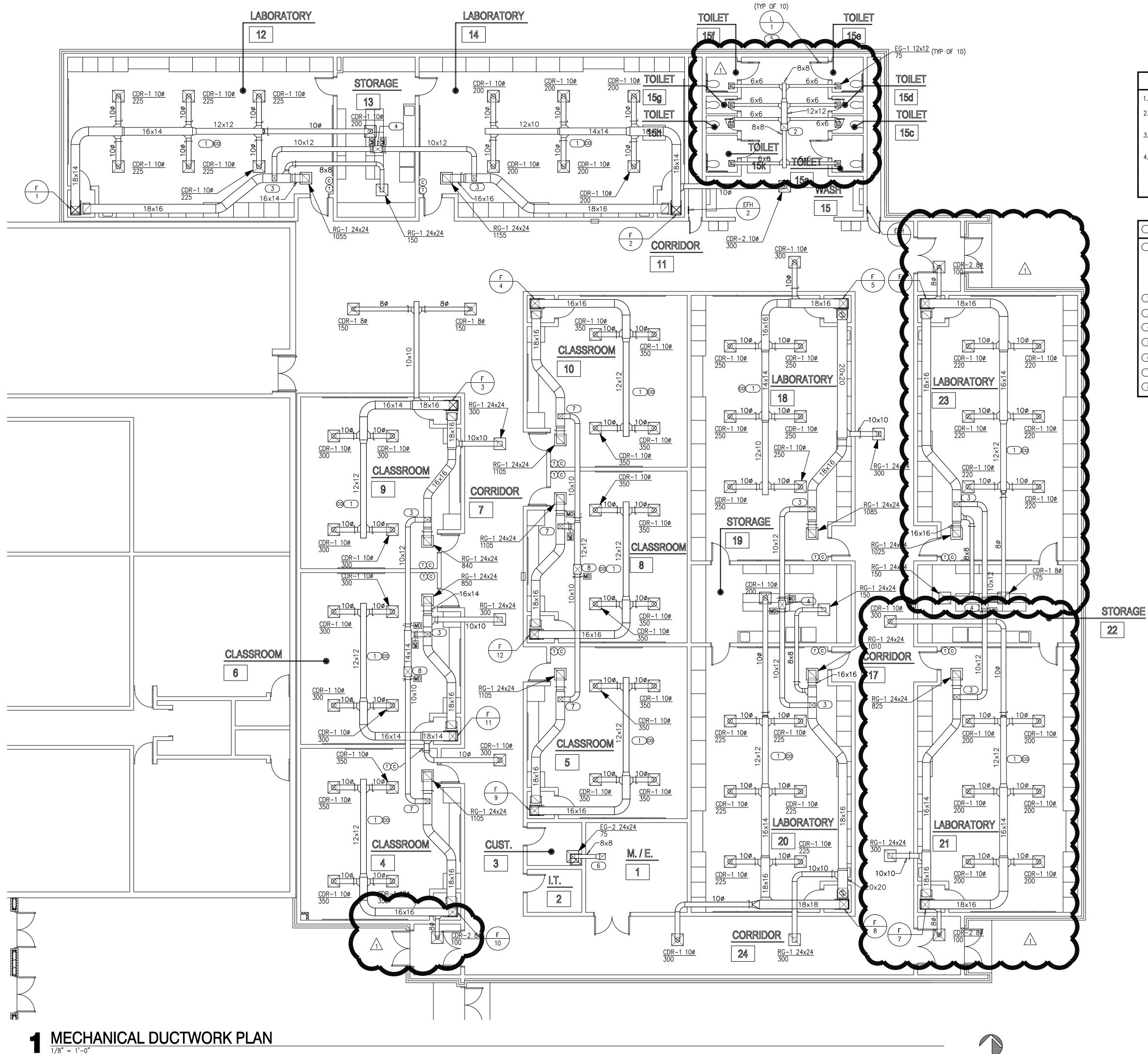




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NORTH

GENERAL NOTES

- COORDINATE WORK WITH ALL TRADES.
- COORDINATE LOCATION OF THERMOSTATS AND CARBON MONOXIDE DETECTOR WITH E.C. ROUGH-IN BY E.C.
- COORDINATE CARBON DIOXIDE SENSOR LOCATION WITH EARTHSMART PRIOR TO INSTALLATION.
- M.C. SHALL PROVIDE CARBON MONOXIDE SENSORS WHERE NEEDED PER CODE FOR EXISTING EQUIPMENT THROUGHOUT THE ENTIRE BUILDING. M.C. IS RESPONSIBLE FOR SURVEYING ENTIRE BUILDING AND LOCATING FUEL BURNING HVAC EQUIPMENT FOR SENSOR LOCATIONS. COORDINATE WITH E.C FOR POWER CONNECTIONS.

KEYED NOTES

- 1) CARBON MONOXIDE DETECTOR TO BE INSTALLED ACCORDING TO ALL APPLICABLE CODES. DETECTOR SHALL BE INSTALLED CENTRALLY ON CEILING. ALSO INCLUDE BATTERY BACKUP IN EVENT PRIMARY POWER IS INTERRUPTED. ALARM SIGNAL SHALL BE ROUTED TO ADMINISTRATION OFFICE. COORDINATE WITH E.C. WITH PRIMARY POWER CONNECTION AND SYSTEM CONNECTION.
- 2 DUCT UP 14x14 TO CONNECT TO ROOF EXHAUST OPENING.
- (3) DUCT 10X12 INTO RETURN DUCT.
- (4) DUCT UP 14X18 TO CONNECT TO ROOF HOOD.
- (5) place door louver 8" from bottom of door.
- 6 DUCT UP 12X12 TO CONNECT TO ROOF EXHAUST OPENING.
- (7) DUCT 10X10 INTO RETURN DUCT.
- 8 DUCT UP 16X20 TO CONNECT TO ROOF HOOD.



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drawn by

checked by

MARCH 2022 date

<u>1</u> 07/22/22 AD01

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CONDENSING UNIT SCHEDULE

CU				CONDENS	ING UNIT				
	NOMINAL TONNAGE	ELEC. CHAR	MCA	MOCP	S.E.E.R	WEIGHT (LBS)	MANUFACTURER& MODEL NO.	CFM	MAX S.P.
1	4	208/1	28.2	45	17	295	YORK YFK48B21S	1550	0.3
2	4	208/1	28.2	45	17	295	YORK YFK48B21S	1500	0.3
3	4	208/1	28.2	45	17	295	YORK YFK48B21S	1500	0.3
4	4	208/1	28.2	45	17	295	YORK YFK48B21S	1400	0.3
5	5	208/1	31.4	50	17	295	YORK YFK60B21S	1800	0.3
6	4	208/1	28.2	45	17	295	YORK YFK48B21S	1595	0.3
7	4	208/1	28.2	45	17	295	YORK YFK48B21S	1600	0.3
8	5	208/1	31.4	50	17	295	YORK YFK60B21S	1850	0.3
9	4	208/1	28.2	45	17	295	YORK YFK48B21S	1400	0.3
10	4	208/1	28.2	45	17	295	YORK YFK48B21S	1500	0.3
11	4	208/1	28.2	45	17	295	YORK YFK48B21S	1500	0.3
12	4	208/1	28.2	45	17	295	YORK YFK48B21S	1400	0.3
NOTES:	M.C. IS RES EQUIPMENT.	PONSIBLE FO					ARY DIMENSIONAL, ELEC		MECHAN

1. E.C. TO PROVIDE AND INSTALL POWER DISCONNECT FOR UNIT. COORDINATE WITH M.C. 2. M.C. TO INCLUDE PRE-CHARGED LINE KIT. INSULATE SUCTION LINE. 3. TWO STAGE COOLING.

4. FOR LINE LENGTH EXCEEDING 50', M.C. MUST PROVIDE FACTORY DESIGNED AND FACTORY OR FIELD FABRICATED REFRIGERANT PIPING. 5. MOUNT UNITS ON CONDENSING UNIT SUPPORTS RE: 10/M501 FOR MORE INFORMATION. 6. INSULATE SUCTION LINE WITH 5/8" AP ARMAFLEX INSULATION OR EQUAL. SEAL ALL JOINTS WATER TIGHT TO PREVENT CONDENSATE IN THE CEILING. 7. PROVIDE UNIT WITH HAIL GUARD.

F									BI	_OWER						
#	TYPE	INPUT MBH	OUTPUT MBH	CFM	MIN F.A.	EXT. S.P.	HEAT EXCH. MTL	SIZE	DRIVE	H.P.	ELEC. CHAR	PILOT	VENT	FILTER MERV 8 MIN.	MANUFACTURER & MODEL NO.	NOT
1	VERT	80	77	1550	345	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
2	VERT	80	77	1500	345	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
3	VERT	80	77	1500	360	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
4	VERT	80	77	1400	295	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
5	VERT	100	96	1800	415	0.6	ALUMINIZED STL	11X11	DIRECT	1	120/1	HOT S	3"	2" TA	YORK TM9V100C20MP12C	1-3
6	VERT	80	77	1595	375	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
7	VERT	80	77	1600	375	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
8	VERT	100	96	1850	390	0.6	ALUMINIZED STL	11X11	DIRECT	1	120/1	HOT S	3"	2" TA	YORK TM9V100C20MP12C	1-3
9	VERT	80	77	1400	295	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
10	VERT	80	77	1500	295	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
11	VERT	80	77	1500	350	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
12	VERT	80	77	1400	295	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1-3
12 VERT 80 77 1400 295 0.6 ALUMINIZED STL 11X10 DIRECT 3/4 120/1 HOT S 3" 2" TA YORK TM9V080C16MP12C 1-3 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.																

					LOUVE	ER SCI	HEDULE		
	CONNECTED TO	SIZE (IN) (WXH)	MNIMUM FREE AREA	FLANGE	CONSTRUCTION	INCLUDE MOD	MANUFACTURER AND MODEL NUMBER	COMMENTS	NOTES
1	WC DOOR	8.5X8.5	0.28	YES	STEEL	NO	AIR CONDITIONING PRODUCTS SDL	SIGHT PROOF DOOR LOUVER	1,2

GRILLE, REGISTER, AND DIF PLAN SYMBOL DESCRIPTION CFM S.P. MOTOR CHAR MCA MANUFACTURER & MODEL NO. SQUARE FACE, ROUND NECK, 4-WAY DEFLECTION CEILING DIFFUSER, SPRING LOCK INN NOTES CDR-1 FOR LAY-IN CEILING INSTALLATION. YORK CM48CBCA1 1-7 SQUARE FACE, ROUND NECK, 4-WAY DEFLECTION CEILING DIFFUSER, SPRING LOCK INN CDR-2 1-7 YORK CM48CBCA1 FOR SURFACE MOUNT INSTALLATION. YORK CM48CBCA1 1-7 SQUARE PATTERN GRILLE, FIXED CORE OF 1/2"X1/2"X1/2" FABRICATED ALUMINUM SQUA RG-1 FRAME WITH 1 1/4" MARGIN, FOR LAY-IN CEILING INSTALLATION. 1-7 SQUARE PATTERN GRILLE, FIXED CORE OF 1/2"X1/2"X1/2" FABRICATED ALUMINUM SQUA EG-1 1-7 FRAME WITH 1 1/4" MARGIN, FOR SURFACE MOUNT INSTALLATION. 1-7 SQUARE PATTERN GRILLE, FIXED CORE OF 1/2"X1/2"X1/2" FABRICATED ALUMINUM SQUA EG-2

SEE PLANS FOR QUANTITY AND SIZES.

NOTES:

1400 0.3 - SEE FURNACE SCHEDULE YORK CM48CBCA1 1800 - SEE FURNACE SCHEDULE YORK CM60CXA2 0.3 1595 - SEE FURNACE SCHEDULE 0.3 YORK CM48CBCA1 1600 - SEE FURNACE SCHEDULE 1-7 0.3 YORK CM48CBCA1 1850 0.3 - SEE FURNACE SCHEDULE YORK CM60CXA2 1-7 1400 - SEE FURNACE SCHEDULE YORK CM48CBCA1 1-7 0.3 1500 0.3 – SEE FURNACE SCHEDULE 1-7 YORK CM48CBCA1 1500 0.3 – SEE FURNACE SCHEDULE 1-7 YORK CM48CBCA1 1400 0.3 – SEE FURNACE SCHEDULE -YORK CM48CBCA1 1-7

An and Andrew Contract Andrew Contract Andrew Contract Andrew Contract Andrew Contract Andrew Contract Andrew C

MAX BLOWER ELEC.

– SEE FURNACE SCHEDULE

– SEE FURNACE SCHEDULE

- SEE FURNACE SCHEDULE

EVAPORATOR UNIT

RICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE

M.C.	TO	FIELD	VERIFY	CEILING	TYPE	FOR	ALL	GRD	BEFORE	PURCHASING	EQUIPMENT.	PROVIDE	F
								D	UCT	WORK	/INSUI	LATI	0

FRAME WITH 1 1/4" MARGIN, FOR SURFACE MOUNT INSTALLATION.

		DUC	CTWC	RK/II	NSUL	ATIC	N SC	CHED	ULE				
		LOW PR	ESSURE		MED.	PRESS	HIGH	PRESS.		INSULA	TION		
			SEAL		МАХ		MAX						
SYSTEM	MAX. PRES.	Α	В	С	PRES.	SEAL A	PRES.	SEAL A	INTERNAL	THICKNESS	EXTERNAL	THICKNESS	NOTES
SUPPLY AIR WITHIN 10' OF UNIT	2"	Х	-	_	-	-	-	-	YES	1"	NO	-	-
SUPPLY AIR BEYOND 10' OF UNIT	2"	Х	-	-	-	-	_	-	NO	-	YES	2" FSK	-
RETURN AIR WITHIN 10' OF UNIT	2"	-	X	-	-	-	_	-	YES	1"	NO	-	-
RETURN AIR BEYOND 10' OF UNIT	2"	-	X	-	-	-	_	-	NO	-	YES	2" FSK	-
OUTSIDE AIR/MIXED AIR	2"	-	X	-	-	-	-	-	NO	-	YES	3" FSK	-
NOTES:													

																-
						E	ΞΧΗΑΙ	JST	FAN S	CHE	DULE					
EF						MOTOR			DAMPER							
	LOSIMON	SIEM	CFM	SP	RF	H	HAR	AMPS	MOL	DANE	TYPE	CONTR	WLATI	MANDFACTORER & MODEL MABER	NOTES	
1	ROOF	EXHAUST	600	0.5	1,040	FRAC.	120/1	3.8	MOD	DIRECT	CENT	AHU-2	43	GREENHECK G-120-VG	ALL	1
2	Rection	F MIST	75	3.75	044	FRAM	Mart Chinas					CUTO				A CONTRACTOR
NOTES:	M.C. IS RE EQUIPMENT		FOR PROV	/IDING AN	r and al	L NECESSA	RY DIMENSIC	NAL, ELI	ECTRICAL, ME	CHANICAL,	AND STRU	CTURAL ALTER	RATIONS N	ECESSITATED BY PROVIDING ALTERNAT	Ē	

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.

				ELEC	CTRIC	FAN F	ORCE	D HEA	TER S	CHEDI	JLE	
EFF #	ROOM NO.	CFM	WALL OR CEILING	KW	MOUNTING	ELECTRICAL CHAR	AMPS	SPEEDS	CONTROL	RPM	MANUFACTURER & MODEL NUMBER	NOTES
1	CHASE	100	WALL	2	WALL	208/1	9.6	1	INT.	-	BERKO FRC-4020	1-3
2	CHASE	100	WALL	2	WALL	208/1	9.6	1	INT.	_	BERKO FRC-4020	1-3
NOTE	<u>.5:</u> Equipment.	PONSIBLE FO		ANY AND AL	L NECESSARY	DIMENSION,	ELECTRICAL,	MECHANICAL,	AND STRUC	TURAL ALTERA	ATIONS NECESSITATED BY PROVIDING ALTERNATE	-

1. PROVIDE INTERNAL THERMOSTAT. 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.

RH #	THROAT SIZE DIMENSION (IN)	THROAT AREA (FT ²)	DAMPER BDD OR MOD	CONSTRUCTION	MANUFACTURER & MODEL NO.	COMMENTS	NOTES
1	14X18	1.75	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
2	16X20	2.22	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
3	16X20	2.22	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3
4	14X18	1.75	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1–3
5	14X18	1.75	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1-3

FUSER SC				
	MANUFACTURER & MODEL NO.	MATERIAL	FINISH	NOISE CRITERIA
INER CORE,	PRICE SCD (4C)	STEEL	WHITE	-
NNER CORE,	PRICE SCD (4C)	STEEL	WHITE	_
JARES, FLAT	PRICE 80	ALUMINUM	WHITE	-
JARES, FLAT	PRICE 80	ALUMINUM	WHITE	_
JARES, FLAT	PRICE 80	ALUMINUM	WHITE	_

REQUIRED MOUNTING.



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/1\ 07/22/22 AD01 revisions

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CLASSROOM ADDITION MOOREWEST JUNIOR HIGH SCHOOL

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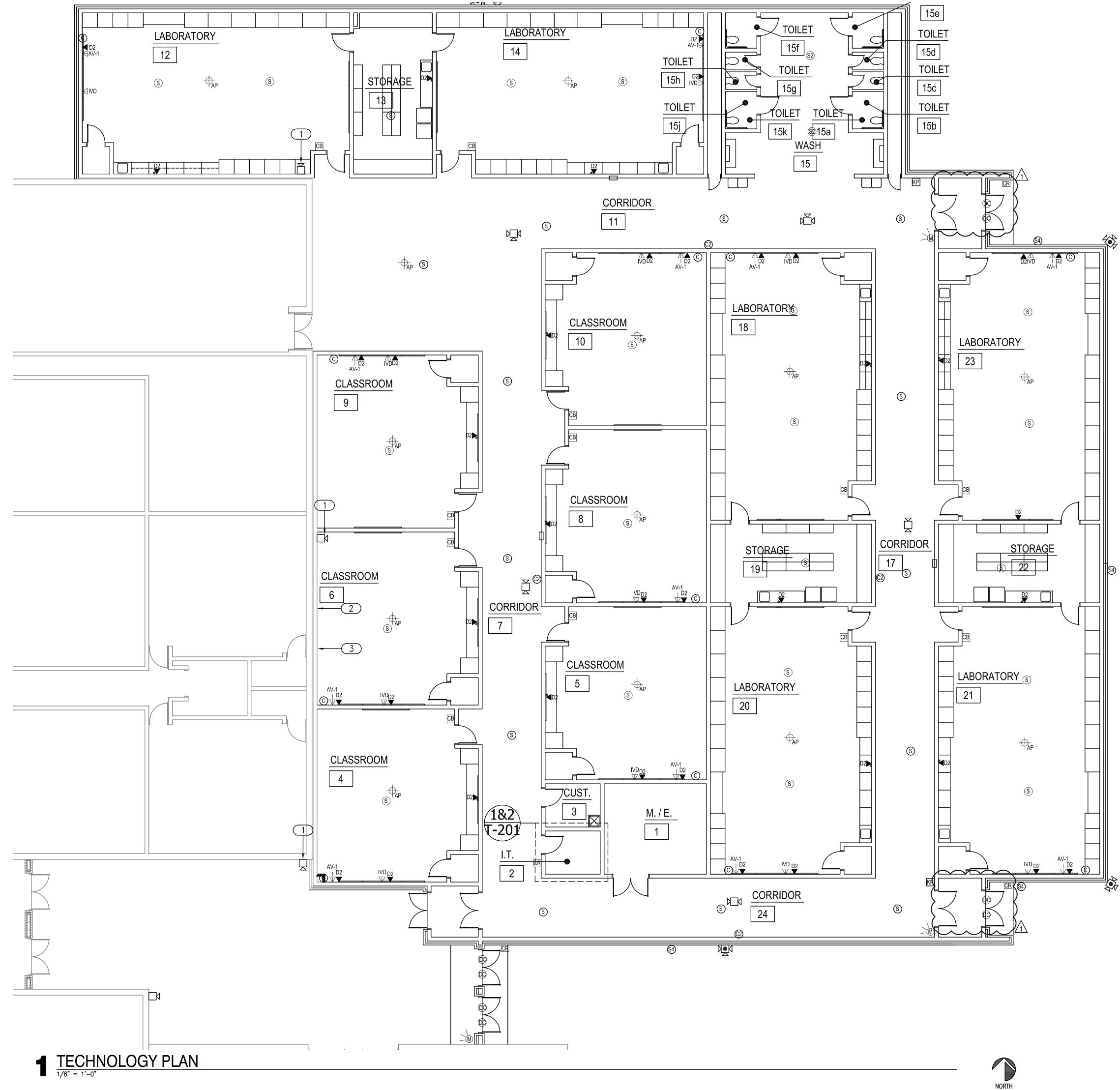
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- COORDINATE ALL FINAL MOUNTING HEIGHTS, FOR WALL MOUNTED DEVICES, PRIOR TO ROUGH—IN. COORDINATE WITH ARCHITECT, OWNER AND ENGINEER.
- B. COORDINATE ALL CEILING DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS AND INTERIOR DESIGN CONSULTANT(IF APPLICABLE)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

KEYED NOTES

- 1. REMOVE EXISTING CAMERA AND RETURN TO MPS TECHNOLOGY.
- 2. REMOVE EXISTING BELL.
- REMOVE EXISTING INTERCOM PAGING HORN AND RETURN TO OWNER. 3.

FIRE ALARM

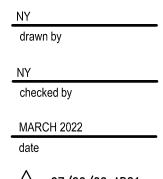
- A. FIRE ALARM SYSTEM IS A PERFORMANCE BASED. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (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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