BA Academy Interior Renovation

PROJECT NAME:

PROJECT ADDRESS: 412 S 9th St
Broken Arrow, OK 74012

OWNER NAME: **Broken Arrow Public Schools**

OWNER ADDRESS: 701 SOUTH MAIN STREET
BROKEN ARROW, OK 74012

ARCHITECT: CJC ARCHITECTS, INC.

CIVIL ENGINEER: PATRIOT ENGINEERING, LLC.

MEP ENGINEER: GODFREY ENGINEERING, LLC.

SHEET INDEX

DATE

7/26/2024

PROJECT NUMBER

2416

STATE OF OKLAHOMA
JOHN DAVID HALL
16720
LICENSED ARCHITECT
7/26/2024

SET NUMBER

BUILDING CODE INFORMATION

JURISDICTION: CITY OF BROKEN ARROW

ZONING CODE: CITY OF BROKEN ARROW ZONING CODE

BUILDING CODE: INTERNATIONAL EXISTING BUILDING CODE 2018 (ALTERATION LEVEL 2)
INTERNATIONAL BUILDING CODE 2018
AS ADOPTED BY OUBCC AND CITY OF BROKEN ARROW

BUILDING FUNDAMENTALS	
302 USE CLASSIFICATION	PRIMARY USES: EDUCATION GROUP E: CLASSROOMS
602 CONSTRUCTION CLASSIFICATION	TYPE VB CONSTRUCTION
901 FIRE PROTECTION	NOT PROVIDED; AREA OF WORK IS LESS THAN 12,000 SQFT WITH THE EXISITNG WALLS AND CONSTRUCTION OF NEW 2 HOUR FIRE BARRIER WALLS.

901 GENERAL BUILDING HEIGHTS	ALLOWED	PROVIDED
504.3 ALLOWABLE BUILDING HEIGHT ABOVE GRADE PLANE	40 FT	16 FT
504.4 ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE	1	1

506 ALLOWABLE BUILDING AREA CALCULATION	
506.2 TABULAR ALLOWABLE AREA	9,500
06.3.3 AREA FACTOR INCREASE DUE TO FRONTAGE: $I_f = (F/P - 0.25) \times W/30$	36%
06.2.1 ALLOWABLE BUILDING AREA $A_a = A_t + (NS \times I_f)$	**12,920 SF**

BUILDING AREA AS DESIGNED	
TOTAL	**11,662 SF**

CONSTRUCTION TYPE REQUIREMENTS

Ch 6 Ch 7 **TYPES OF CONSTRUCTION & FIRE AND SMOKE PROTECTION FEATURES**

602 CONSTRUCTION CLASSIFICATION: **TYPE VB CONSTRUCTION**

602.1 FIRE-RESISTANCE RATING FOR BUILDING ELEMENTS			REQ'D FIRE-RESISTANCE RATING	UL / FM DESIGN #
T601 BUILDING ELEMENT	PRIMARY STRUCTURAL FRAME		0 HOURS	-
T602	EXTERIOR BEARING WALLS	FIRE SEP. DIST. ≥ 30 FT.	0 HOURS	-
T602	EXTERIOR NONBEARING WALLS AND PARTITIONS	FIRE SEP. DIST. ≥ 30 FT.	0 HOURS	-
	INTERIOR BEARING WALLS		0 HOURS	-
	INTERIOR NONBEARING WALLS AND PARTITIONS		0 HOURS	-
	FLOOR CONSTRUCTION AND ASSOC. SECONDARY MEMBERS		0 HOURS	-
	ROOF CONSTRUCTION AND ASSOC. SECONDARY MEMBERS		0 HOURS	-
706	FIRE WALLS		2 HOURS	-
707 FIRE BARRIERS		SHAFT ENCLOSURES	1 HOUR (713.4)	-
		INTERIOR EXIT STAIRS AND RAMPS	1 HOUR (1023.1)	-
		EXIT ACCESS STAIR ENCLOSURES	0 HOURS (1019.3)	-
		SEPARATED OCCUPANCIES	0 HOURS (508.4)	-
		FIRE AREAS	2 HOURS (707.3.10)	U419
708	FIRE PARTITIONS	CORRIDOR WALLS	1 HOURS (1020.1)	U906 (2 hr.)
		ELEVATOR LOBBY SEPARATION	0 HOURS (3006.2)	-

NOTES:
ALL EXISTING CORRIDOR WALLS ARE 2 HR RATED CMU BLOCK WALLS OR BETTER CONSTRUCTION

T509		
INCIDENTAL USES	IN GROUP E OCCUPANCIES, LABORATORIES OR VOCATIONAL SHOPS NOT CLASSIFIED AS GROUP H	NO FIRE-RESISTANCE RATED SEPARATION REQUIRED (TYPE IIB CONSTRUCTION)

OCCUPANT LOAD CALCULATION

Table 1004.1.2

1004 USE CLASSIFICATION FUNCTION OF SPACE	AREA (sq.ft.)	OCCUPANT LOAD FACTOR (sq.ft. / occupant)	OCCUPANT LOAD
E - EDUCATIONAL			
CLASSROOMS	4,822	20 net	242
SHOP	1,568	50 net	32
OFFICE	1,167	150 gross	8
ACCESSORY STORAGE & MECHANICAL AREAS	684	300 gross	3
TOTALS			**285**

BUILDING EXITS REQUIRED & PROVIDED

	NUMBER OF EXITS OR EXIT ACCESS	EGRESS CAPACITY (inches)	EXIT ACCESS MAX. TRAVEL DISTANCE (feet)	ACCESSIBLE MEANS-OF-EGRESS
REQUIRED	**2**	**57**	**200**	**1**
PROVIDED	**5**	**84**	**98**	**5**

REQUIRED PLUMBING FIXTURE CALCULATION

IBC Table 2902.1

WATER CLOSETS 50/50 male/female		LAVATORIES 50/50 male/female		DRINKING FOUNTAINS	OTHER
MALE	FEMALE	MALE	FEMALE		
1 per 50		*1 per 50*		*1 per 100*	*1 SERVICE SINK*
3	3	3	3	3	

PLUMBING FIXTURES PROVIDED

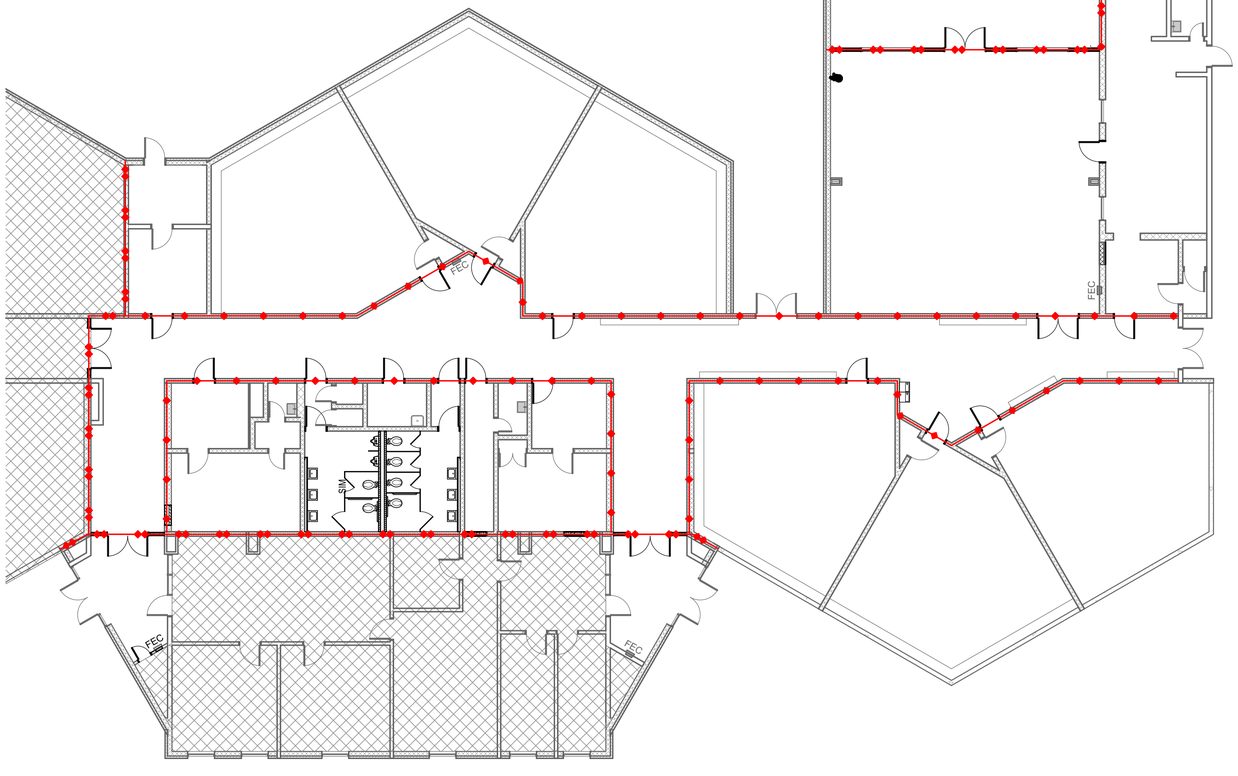
WATER CLOSETS		LAVATORIES		DRINKING FOUNTAINS	OTHER
MALE	FEMALE	MALE	FEMALE		
2 WC + 2 URINAL	**4 WC**	**2**	**2**	**2+ bottle filler**	**3 SERVICE SINKS**

FIRE PROTECTION SYSTEM REQUIREMENTS

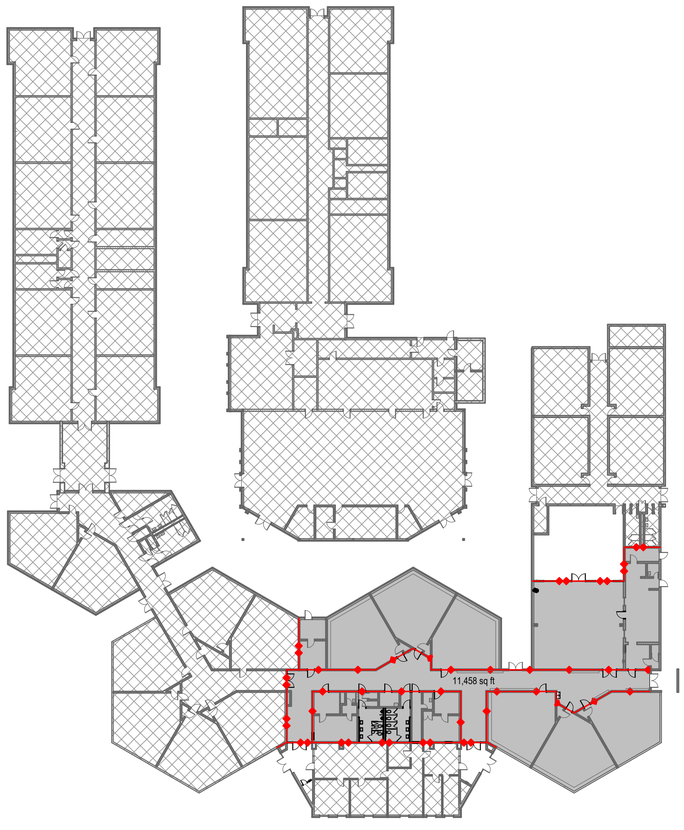
Ch 9 FIRE PROTECTION SYSTEMS		
903 AUTOMATIC SPRINKLER SYSTEMS	E OCCUPANCY	REQUIRED THROUGHOUT ALL GROUP E FIRE AREAS EXCEEDING 12,000 SF
904 ALTERNATIVE AUTOMATIC FIRE-EXTINGUISHING SYSTEMS		REQUIRED AT COMMERCIAL KITCHEN HOOD AND DUCT SYSTEM
905 STANDPIPE SYSTEMS		NOT REQUIRED
906 PORTABLE FIRE EXTINGUISHERS		REQUIRED FOR USE GROUP AND REQUIRED WITHIN 30 FT OF COMMERCIAL COOKING EQUIPMENT LIGHT HAZARD OCCUPANCY: 2-A MIN RATED SINGLE EXTINGUISHER 3,000 SF MAX AREA PER UNIT OF A 11,250 SF MAX AREA PER EXTINGUISHER 75 FT MAX TRAVEL DISTANCE
907 FIRE ALARM AND DETECTION SYSTEMS	GROUP E OCCUPANCY	MANUAL FIRE ALARM SYSTEM REQUIRED THAT INITIATES THE OCCUPANT NOTIFICATION SIGNAL UTILIZING AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM. AUTOMATIC SPRINKLER SYSTEMS AND SMOKE DETECTORS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM

MEANS OF EGRESS REQUIREMENTS

Ch 10 MEANS OF EGRESS		REQUIREMENT
1005 MIN. EGRESS SIZING	STAIRWAYS:	0.3" PER OCCUPANT, 44" MIN. (1011.2)
	OTHER EGRESS COMPONENTS:	0.2" PER OCCUPANT, 44" MIN. (1020.2)
1006 SPACES w/ ONE EXIT OR EXIT ACCESS DOORWAY	E OCCUPANCY	49 OCCUPANTS MAX 75 FT MAX COMMON PATH OF TRAVEL
1006 MIN. NUMBER OF EXITS OR ACCESS TO EXITS PER STORY		2 PER STORY FOR OCCUPANT LOAD PER STORY OF 1 - 500. 1 PER STORY WHERE PERMITTED IN 1006.3.2
1007 EXIT AND EXIT ACCESS CONFIGURATION		SEPARATED A MIN. DISTANCE OF 1/2 THE MAX. DIAGONAL DIMENSION OF THE AREA BEING SERVED
1017 EXIT ACCESS TRAVEL DISTANCE	A, E OCCUPANCY	200 FT MAX
1019 EXIT ACCESS STAIRWAY AND RAMP ENCLOSURES		NA
1020.1 CORRIDOR CONSTRUCTION		1 HOUR RATING REQUIRED
1020.4 CORRIDOR DEAD ENDS		20 FT MAX. OR LESS THAN 2.5 TIMES THE LEAST WIDTH
1023.2 INTERIOR EXIT STAIRWAY AND RAMP CONSTRUCTION		NA
1024.3 EXIT PASSAGEWAY CONSTRUCTION		NA



N 2 **LIFE SAFETY PLAN**
3/32" = 1'-0"
0 8' 16' 24'



N 1 **LIFE SAFETY PLAN**
1/32" = 1'-0"
0 16' 32' 64'

LIFE SAFETY SYMBOLS LEGEND

- FIRE RESTRICTED CORRIDOR PER IBC SECTION 1020 FIRE-RESISTANCE RATING = 1 HOURS
- FIRE BARRIER PER IBC SECTION 707 FIRE-RESISTANCE RATING = 2 HOURS
- 45 — OCCUPANT LOAD PER ROOM, SPACE, OR SEATING SECTION
- 108 / 360 EXIT — AGGREGATE OCCUPANT LOAD PER EXIT / ALLOWABLE OCCUPANT LOAD PER EXIT
- 108 / 360 STAIR — AGGREGATE OCCUPANT LOAD PER STAIR / ALLOWABLE OCCUPANT LOAD PER STAIR

LIFE SAFETY GENERAL NOTES

1. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF FIRE AND SMOKE DAMPERS IN DUCTWORK.
2. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF FIRE ALARM SYSTEM DEVICES AND EXIT LIGHTS.
3. REFER TO FIRE PROTECTION DRAWINGS FOR STANDPIPE AND AUTOMATIC SPRINKLER SYSTEMS INFORMATION.

CJC Architects, Inc.
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918-582-7129
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Revision Date	Revision

Project Title

BA Academy
Interior Renovation

412 S 9th St
Broken Arrow, OK 74012

Broken Arrow Public Schools

Sheet Title

LIFE SAFETY PLAN AND BUILDING CODE DATA

Drawn
Checked
Project Number 2416

user: gklaassen timestamp: 7/26/2024 - 3:57 PM
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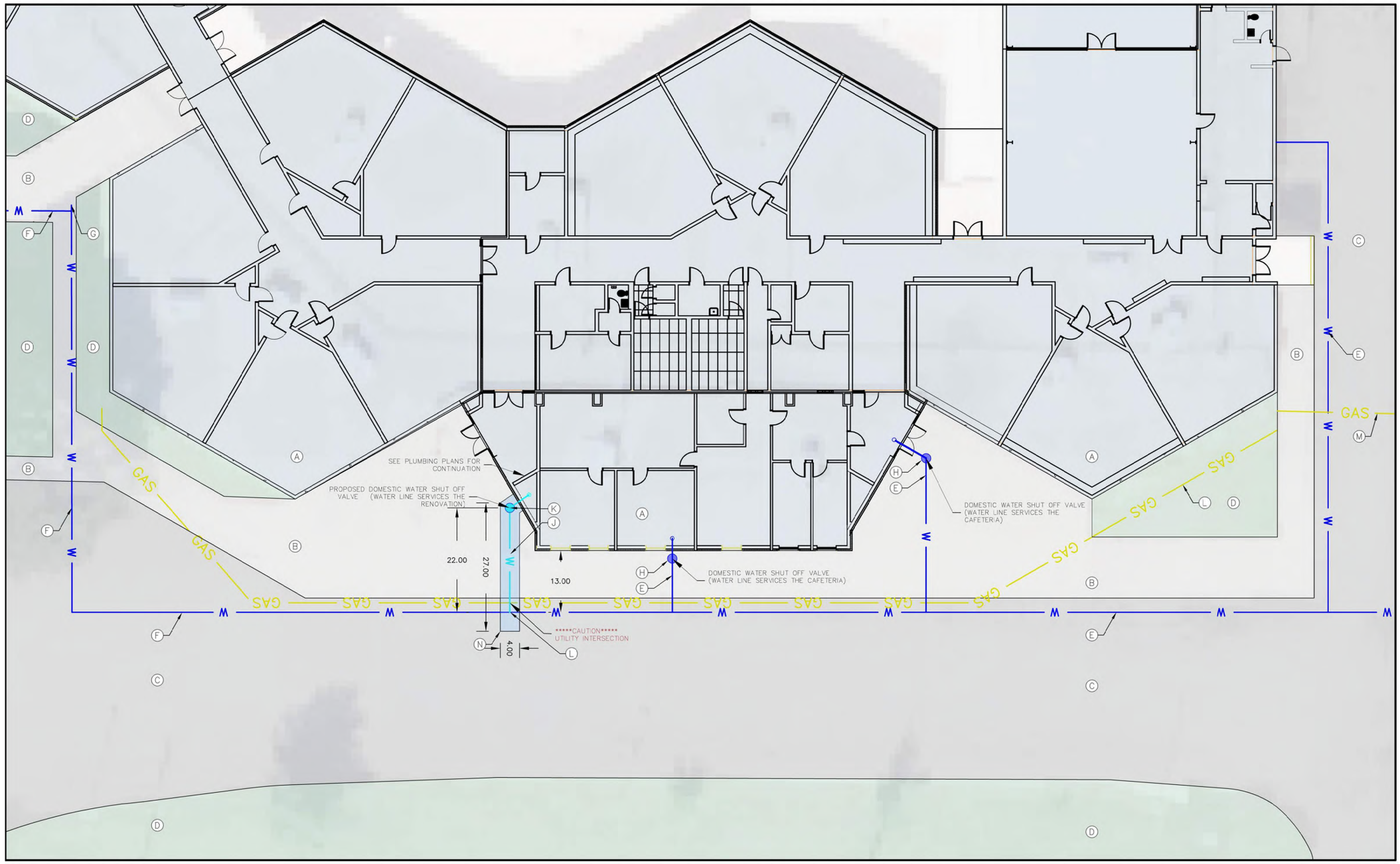
7/26/2024

Issue Date 7/26/2024

Sheet Number **G100**



SITE PLAN GENERAL NOTES

**ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH CURRENT CITY OF BROKEN ARROW CONSTRUCTION STANDARDS .

1. ENGINEER'S NOTICE TO CONTRACTOR: THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE DRAWINGS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE DRAWINGS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN, AND ALL OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE DRAWINGS BY VERIFICATION OF THEIR LOCATION IN THE FIELD PRIOR TO THE INITIATION OF THE ACTUAL PORTION OF THEIR WORK.
2. SAFETY NOTICE TO CONTRACTOR: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, OR NEAR THE CONSTRUCTION SITE.
3. CONTRACTOR SHALL NOT CAUSE ANY INCONVENIENCE TO THE PUBLIC, ADJACENT PROPERTY OWNERS, PEDESTRIANS, ETC. DURING THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL CONTACT THE ARCHITECT/ENGINEER FOR CLARIFICATION IF A DISCREPANCY OR INCONSISTENCY IS IDENTIFIED ON THE PLANS AND/OR SPECIFICATIONS.
4. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL REQUIRED/NECESSARY SHEETING, SHORING, AND SPECIAL EXCAVATION MEASURES REQUIRED ON THE PROJECT TO MEET OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS.

LEGAL DESCRIPTION (OVERALL)

A TRACT OF LAND IN THE SOUTHEAST QUARTER (SE/4) OF SECTION ELEVEN (11) IN TOWNSHIP EIGHTEEN (18) NORTH AND RANGE FOURTEEN (14) EAST OF THE INDIAN BASE AND MERIDIAN (I.B.&M.), ACCORDING TO THE U.S. GOVERNMENT SURVEY, THEREOF, TULSA COUNTY, STATE OF OKLAHOMA; :

SUBDIVISION: UNPLATTED (98411)

SAID TRACT OF LAND CONTAINING 8.86 ACRES, MORE OR LESS.

CAUTION

THE LOCATION OF UNDERGROUND UTILITIES DEPICTED ON THESE DRAWINGS ARE BASED ON VISUAL SURFACE EVIDENCE AND/OR AS-BUILT DRAWINGS PROVIDED BY OTHERS AND, THEREFORE; MAY NOT REPRESENT ALL UTILITIES PRESENT OR THEIR ACTUAL LOCATIONS. IT IS THE CONTRACTORS RESPONSIBILITY FOR COORDINATING WITH INDIVIDUAL UTILITY OWNERS TO ASCERTAIN THE EXACT LOCATION OF EXISTING UTILITIES AT SPECIFIC POINTS OF CONNECTION AND FOR NOTIFYING THE CALL OKIE ONE CALL SYSTEM AT 1-800-522-6543 PRIOR TO ANY EXCAVATION ON SITE.

LEGEND

- W — EXISTING WATER LINE
- W — PROPOSED WATER LINE
- GAS — GAS — NATURAL GAS LINE

N

0' 5' 10 20'
SCALE IN FEET

Know what's below. Call before you dig.

KEYNOTES

- (A) BROKEN ARROW ACADEMY
- (B) EXISTING CONCRETE SIDEWALK
- (C) EXISTING ASPHALT PAVEMENT
- (D) EXISTING LANDSCAPE AND VEGETATION
- (E) EXISTING 2-INCH PRIVATE WATER LINE (SCH 40 PVC)
- (F) EXISTING 3-INCH PRIVATE WATER LINE (SCH 40 PVC)
- (G) CAPPED WATER LINE (PVC)
- (H) EXISTING WATER SHUT OFF VALVE IN METER CAN
- (I) CONNECT PROPOSED 2.5" LINE TO EXISTING 3" LINE (PRIVATE)
- (J) PROPOSED PRIVATE 2.5-INCH WATER LINE EXTENSION (SCH 40 PVC)
- (K) PROPOSED WATER METER CAN AND 2.5" SHUT OFF VALVE
- (L) EXISTING NATURAL GAS LINE
- (M) EXISTING 4-INCH NATURAL GAS LINE
- (N) PROPOSED AREA FOR CONCRETE/ASPHALT REMOVAL AND REPLACEMENT

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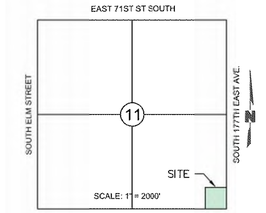
EXPIRES 30JUN2025

Revision Date	Revision



LOCATION MAP

GOVERNING AUTHORITY & UTILITY CONTACT LIST	
ENGINEERING	CITY OF BROKEN ARROW ENGINEERING AND CONSTRUCTION ATTN: CHARLIE BRIGHT, 220 SOUTH FIRST STREET BROKEN ARROW, OKLAHOMA 74012 918.259.7000, EX 7389 CBRIGHT@BROKENARROWOK.GOV
BUILDING PERMITS	CITY OF BROKEN ARROW DEVELOPMENT SERVICES DEPARTMENT ATTN: AMANDA YAMAGUCHI 918.259.2411 EX. 5415 AYAMAGUCHI@BROKENARROWOK.GOV
FIRE	CITY OF BROKEN ARROW FIRE DEPARTMENT ATTN: CHIEF JEREMY MOORE 918.259.2400 EX. 6355
GAS	OKLAHOMA NATURAL GAS COMPANY ATTN: BRANDON RAINBOLT 5848 EAST 15TH STREET SERVICE CENTER TULSA, OK 74112 918.947.7098 FAX 918.831.8214 BRANDON.RAINBOLT@ONEGAS.COM
WATER	CITY OF BROKEN ARROW DIRECTOR OF UTILITIES ATTN: TIMOTHY ROBINS 918.259.7000 TROBINS@BROKENARROWOK.GOV

Project Title

BA Academy
Interior Renovation

412 S 9th St
Broken Arrow, OK 74012

Broken Arrow Public Schools

Sheet Title

SITE PLAN

Drawn MFP
Project Number 2416
Checked JAT
user: JOEFR
timestamp 7/26/2024 2:53 PM

Issue Date 6/27/2024

LICENSED PROFESSIONAL ENGINEER
JOE
PACE
24951
OKLAHOMA

Sheet Number **C100**

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE ALL PERMITS AND PROVIDE ALL BONDS REQUIRED FOR THIS WORK INCLUDING, BUT NOT LIMITED TO, UTILITY CONNECTIONS, BUILDING AND SITE CONSTRUCTION. THE CONTRACTOR SHALL PAY ALL PERMIT FEES, DUMP FEES AND OTHER ASSOCIATED FEES REQUIRED TO SUCCESSFULLY COMPLETE THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
2. THE CONTRACTOR SHALL NOT START THE WORK UNTIL ALL PERMITS HAVE BEEN OBTAINED FROM THE JURISDICTIONAL AUTHORITIES. THE ENGINEER AND THE JURISDICTIONAL AUTHORITIES SHALL BE NOTIFIED BY THE CONTRACTOR 48 HOURS BEFORE START OF CONSTRUCTION.
3. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY THE CITY OF BROKEN ARROW, UTILITY SERVICE COMPANIES AND/OR ANY OTHER AUTHORITIES HAVING JURISDICTION SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND FINAL CONNECTION OF SERVICES.
4. ALL WASTE OR SPOIL SHALL BE TAKEN TO A CITY APPROVED SITE OR SPREAD IN AREAS OUTSIDE OF THE STREET RIGHTS-OF-WAY AS DIRECTED BY THE OWNER AND ENGINEER.
5. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO EXISTING PROPERTY, UTILITIES AND STRUCTURES OUTSIDE THE SCOPE OF WORK AND REPAIR SAME AT HIS OWN EXPENSE.
6. CONTRACTOR AND ALL RELATED CONSTRUCTION ACTIVITIES AREA REQUIRED TO MAINTAIN NORMAL NOISE LEVELS AND ALL EQUIPMENTS AND VEHICLES ARE REQUIRED TO BE PROPERLY MUFFLED.
7. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURFACE AND UNDERGROUND FACILITIES DURING ALL PHASES OF WORK. LOCATION OF ALL UNDERGROUND FACILITIES ARE APPROXIMATE AND FOR THE CONTRACTOR'S GUIDANCE ONLY.
8. UNDERGROUND FACILITIES, WHETHER INDICATED OR NOT, SHALL BE LOCATED AND FLAGGED BY THE UTILITIES AT THE REQUEST OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OR THE NOTIFICATION CENTER OF OKLAHOMA ONE CALL "CALL OKIE" TO MARK OR FLAG THE LOCATION OF THEIR FACILITIES IN THE FIELD (1-800-522-6543 OR 811) NO SOONER THAN TEN DAYS NOR LATER THAN 48 HOURS (EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS) PRIOR TO EXCAVATION.
9. THE CONTRACTOR SHALL REPAIR, AT HIS EXPENSE, ANY DAMAGES TO EXISTING LOCATED FACILITIES CAUSED DIRECTLY OR INDIRECTLY BY HIS OPERATION.
10. BEFORE PROCEEDING, THE CONTRACTOR SHALL SATISFY HIMSELF THAT A CONFLICT DOES NOT EXISTING AND THAT THE UNDERGROUND WORK CAN BE PERFORMED AS SHOWN ON THE PLANS. IF, IN THE OPINION OF THE CONTRACTOR, A CONFLICT DOES EXIST, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER WHO WILL MAKE THE FINAL DETERMINATION FOR RESOLVING THE CONFLICT.
11. THE CONTRACTOR IS TO VERIFY FIELD CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO START OF WORK.
12. THE CONTRACTOR SHALL NOTIFY ALL ADJACENT PROPERTY OWNERS 48 HOURS PRIOR TO STARTING ANY WORK WHICH WILL AFFECT THEIR ACCESS. NOTIFICATION SHALL INCLUDE DURATION OF IMPACT, TELEPHONE NUMBER AND NAME OF PERSON TO CONTACT. COPIES OF NOTIFICATION SHALL BE FURNISHED TO AND APPROVED BY THE OWNER PRIOR TO DISTRIBUTION TO ADJACENT PROPERTY OWNERS.
13. IF NEEDED, THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES, WORKING SIGNS, LIGHTS, FLASHERS AND FLAG PERSONS AS REQUIRED BY THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" TO PROVIDE FOR THE SAFETY OF WORKERS AND THE PUBLIC AT LARGE. TEMPORARY FENCING SHALL BE INSTALLED AROUND ANY OPEN AREAS OF THE SITE.
14. ALL DEBRIS AND SOILS, DERIVED FROM THE CONTRACTOR'S OPERATIONS, FOUND IN THE PUBLIC RIGHT-OF-WAY OR CAUSING NUISANCE TO OPERATIONS, SHALL BE CLEANED AND REMOVED ON A DAILY BASIS, WHEN NOTIFIED BY THE AUTHORITY HAVING JURISDICTION OR THE OWNER'S REPRESENTATIVE.
15. THE CONTRACTOR SHALL SATISFACTORILY CLEAN THE AREA OF ALL RUBBISH, EXCESS MATERIAL, MUD AND DEBRIS AND ALL PARTS OF THE WORK AREA SHALL BE LEFT IN A NEAT AND PRESENTABLE CONDITION. ALL DISTURBED AREAS SHALL BE RESTORED TO A LEVEL AND SMOOTH SURFACE PRIOR TO ACCEPTANCE OF THE WORK. DEBRIS, ETC. SHALL BE DISPOSED OF AT AN APPROVED FACILITY IN A LEGAL MANNER.
16. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY, COUNTY, STATE AND FEDERAL REGULATIONS, CODES AND O.S.H.A. STANDARDS.
17. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL BOUNDARY CORNERS AND SECTION CORNERS. ANY BOUNDARY CORNER AND/OR SECTION CORNER DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RESET BY A LAND SURVEYOR LICENSED IN THE STATE OF OKLAHOMA, AT THE CONTRACTOR'S EXPENSE.

SITE LAYOUT NOTES:

1. THE CONTRACTOR SHALL KEEP THE SITE CLEAN DURING CONSTRUCTION AND SUPPLY CONSTRUCTION CONTAINERS OR DUMPSTERS TO MAINTAIN ALL TRASH AND DEBRIS.
2. ALL PAVING MATERIALS & CONSTRUCTIONS METHODS SHALL BE IN ACCORDANCE WITH CITY AND STANDARD DRAWINGS AND SPECIFICATIONS.
3. THE PORTLAND CEMENT CONCRETE FOR PAVEMENT SHALL BE IN ACCORDANCE WITH THE OKLAHOMA DEPARTMENT OF TRANSPORTATION (ODOT) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2019 EDITION. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
4. CONCRETE FOR INLETS, CURB AND GUTTER, SIDEWALKS AND MANHOLES SHALL BE IN ACCORDANCE WITH THE CITY OF BROKEN ARROW STANDARD SPECIFICATIONS FOR CONSTRUCTION.
5. PAVEMENT JOINTS SHALL BE IN ACCORDANCE WITH THE CITY OF BROKEN ARROW SPECIFICATIONS.

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A DEMOLITION PERMIT FROM THE CITY PRIOR TO STARTING DEMOLITION ACTIVITIES. CONTRACTOR SHALL PAY ALL COSTS ASSOCIATED WITH THE DEMOLITION PERMIT.
2. THE CONTRACTOR SHALL CONFORM WITH ALL APPLICABLE CODES (LOCAL, STATE AND FEDERAL) FOR DEMOLITION, DUST CONTROL, EROSION CONTROL AND DISPOSAL OF DEMOLITION MATERIAL AND DEBRIS.
3. EXISTING UNDERGROUND LINES HAVE BEEN SHOWN TO THE EXTENT KNOWN. THE EXACT LOCATIONS AND NOTIFICATIONS OF THE PROPERTY AGENCY IS THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO ANY EXCAVATION.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING UTILITIES, PAVEMENT AND OTHER IMPROVEMENTS NOT SCHEDULED FOR REMOVAL. ANY DAMAGE TO EXISTING UTILITIES AND/OR PAVED STREETS CAUSED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL UNSUITABLE MATERIALS AND DEBRIS ENCOUNTERED OR GENERATED BY THE REMOVAL OPERATIONS, INCLUDING CONCRETE, ASPHALT, OIL, BRICK, ROCK, PIPES, ETC. NO UNSUITABLE MATERIAL, SUCH AS DETERMINED BY THE OWNER'S REPRESENTATIVE, SHALL BE USED FOR BACKFILLING OR EMBANKMENT CONSTRUCTION. THE COST FOR DISPOSAL OF THE UNSUITABLE MATERIAL SHALL BE SUBSIDIARY TO THE PROJECT.
6. STORM WATER POLLUTION PREVENTION PLAN BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED PRIOR TO ANY REMOVALS.
7. CONTRACTOR SHALL FULL DEPTH SAWCUT WITH A DIAMOND EDGE SAW BLADE ALL LOCATIONS WHERE PAVEMENT TO BE REMOVED ABUTS PAVEMENT TO REMAIN.
8. ALL DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE HAULED OFF-SITE AND PROPERTY DISPOSED OF. THE OWNER SHALL HAVE FIRST RIGHTS TO ANY MATERIALS THAT HE DEEMS SALVAGEABLE. MISCELLANEOUS STRUCTURES, CONCRETE, RUBBLE AND OTHER ITEMS SHALL BE REMOVED COMPLETELY OR DEMOLISHED TO 3' BELOW EXISTING GRADE.

UTILITY NOTES:

1. THE FOLLOWING IS A MINIMUM DEPTH OF COVER OVER THE UTILITY PIPES. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE OVER WITH THE JURISDICITONAL AUTHORITIES: WATER – 30".
2. EXISTING UTILITIES SHOWN ON THESE PLANS ARE NOT GURANTEED. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATION OF THESE UTILITES BEFORE COMMENCING EXCAVATIONS.
3. THE CONTRACTOR SHALL COMPLY WITH CURRENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) CONSTRUCTION STANDARDS AND MAINTAIN VIABLE TRENCH SAFETY SYSTEMS AT ALL TIMES.
4. CONTRACTOR TO COORDINATE THE INSTALLATION OF UTILITY SERVICES WITH UTILITY COMPANIES BEFORE THE INSTALLATION OF PAVEMENT, SIDEWALKS, CURB & GUTTER, AND OTHER PERMANENT FEATURES.
5. THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING THE NECESSARY APPROVALS, PERMITS AND INSPECTIONS; PAYING REQUIRED FEES AND POSTING ANY REQUIRED BONDS, PRIOR TO BEGINNING ANY DEMOLITION OR CONSTITUTION.
6. THE UTILITY CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF EXCESS TRENCHING MATERIAL FROM THE SITE OR STOCKPILING ACCEPTABLE MATERIAL FOR ROUGH GRADING.
7. ALL VALVES, FITTINGS, AND WATER LINE DISINFECTION SHALL CONFORM WITH CITY OF BROKEN ARROW REQUIREMENTS.
8. TRENCH BACKFILL SHALL BE FREE OF BRICK, STONE OR CONCRETE RUBBLE, AND ANY TRASH, DEBRIS, ORGANIC MATERIAL OR ANY OTHER MATERIAL DETERMINED BY THE ENGINEER TO BE UNSUITABLE. ALL UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR.
9. THE TRENCHES SHALL BE KEPT FREE OF WATER AT ALL TIMES AND THE TRENCH LIMITS SHALL BE MAINTAINED AS DETAILED BY THE PLANS. THE COST OF ALL DEWATERING AS MAY BE NECESSARY SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
10. PER THE CITY OF BROKEN ARROW, ALL WATER UTILITIES SHALL BE CONSTRUCTED AND TESTED PER THE ODEQ, AND THE SPECIFICATIONS AND REQUIREMENTS OF ANY OTHER ENTITIES HAVING JURISDICTION OVER THESE IMPROVEMENTS. IN THE CASE OF A DISCREPANCY BETWEEN THE ABOVE REQUIREMENT, THE MOST STRINGENT REQUIREMENT SHALL BE FOLLOWED.

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918-582-7129
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PATRIOT ENGINEERING, LLC
16757 EAST 79TH ST. NORTH
OWASSO, OK 74055
PATRIOTENGINEERINGLLC@GMAIL.COM
918.812.2493
OK CA #9348
EXPIRES 30JUN2025

Revision Date	Revision

Project Title

BA Academy Interior Renovation

412 S 9th St
Broken Arrow, OK 74012

Broken Arrow Public Schools

Sheet Title

CONSTRUCTION NOTES

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Project Number 2416
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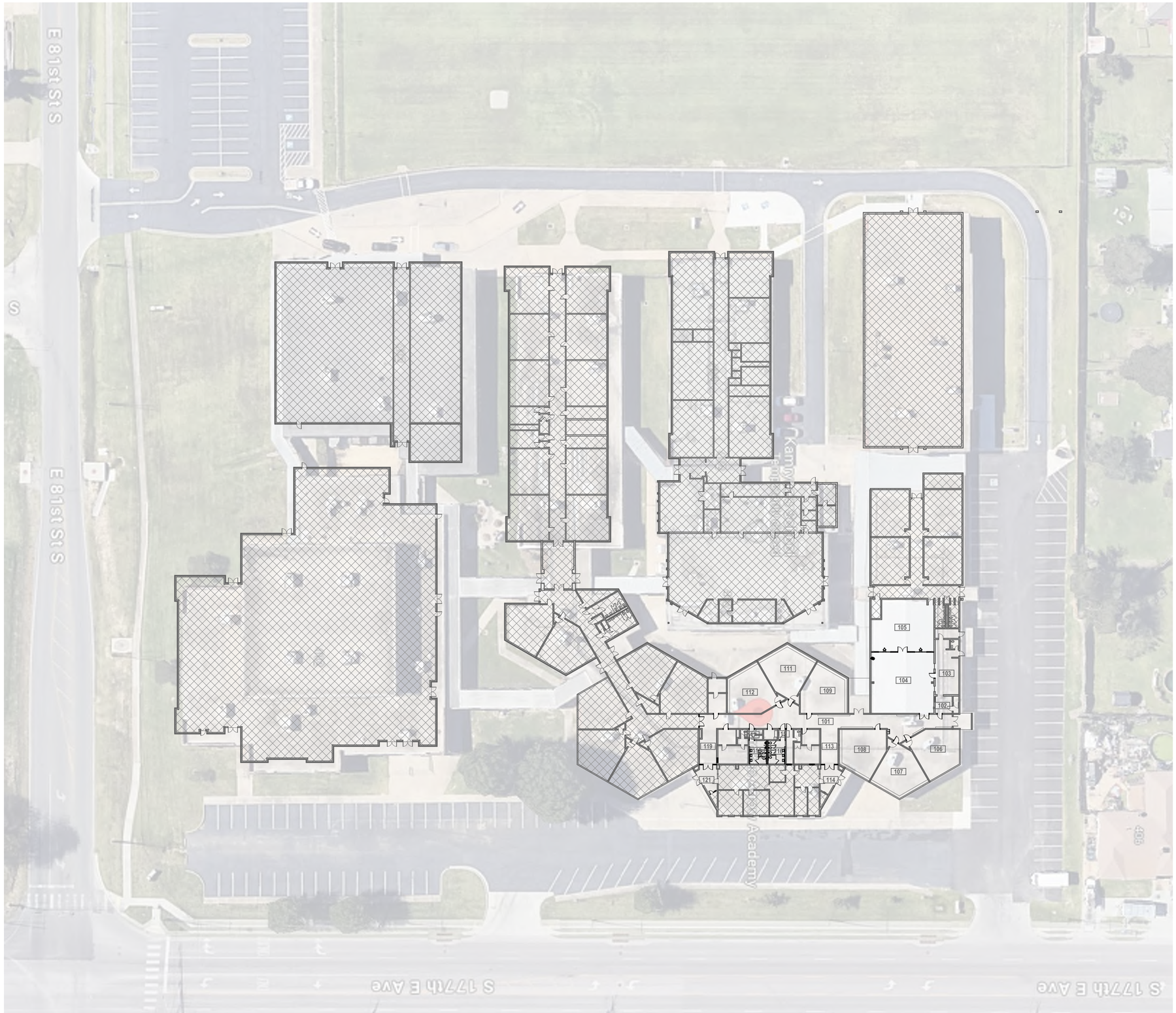
LICENSED PROFESSIONAL ENGINEER
JOE
PACE
24951
OKLAHOMA

Issue Date 6/27/2024
Sheet Number **C101**



ARCHITECTURAL SITE PLAN

N 1" = 30'

0 30' 60'

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GENERAL NOTES

1. REPAIR COLLAPSED WATERLINE

Project Title

BA Academy Interior Renovation

412 S 9th St
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Sheet Title

ARCHITECTURAL SITE PLAN

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2416

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Issue Date
7/26/2024

STATE OF OKLAHOMA
JOHN DAVID HALL
16749
LICENSED ARCHITECT
7/26/2024

Sheet Number
A002

N 1 **DEMOLITION PLAN**

1/8" = 1'-0"

0 4' 8' 16'

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OUTSIDE AREA OF WORK

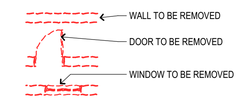
GENERAL NOTES

1. LOCKERS TO REMAIN.
2. CEILING GRID AND MECHANICAL DEVICES TO REMAIN.
3. REMOVE ALL ACOUSTICAL CEILING TILES.
4. REMOVE ALL LIGHT FIXTURES.
5. FIRE ALARM AND DEVICES TO REMAIN.
6. REMOVE ALL INTERIOR DOOR HARDWARE.

KEYED NOTES

0	NO WORK IN THIS AREA
1	PREPARE SLAB FOR NEW FLOORING
2	REMOVE MILLWORK
3	FLOORING TO REMAIN
4	REMOVE WATER COOLER
5	MILLWORK TO REMAIN
6	REMOVE FLOORING
7	CAP PLUMBING
8	REMOVE SINK
9	REMOVE DOOR AND FRAME
10	CUT OPENING IN WALL FOR NEW DOOR
11	CUT OPENING IN WALL FOR NEW WINDOW
12	DEMOLISH WALL
13	RELOCATE FIRE EXTINGUISHER CABINET

DEMOLITION LEGEND



DEMOLITION NOTES

1. COORDINATE WITH OWNER TRANSFER AND/OR STORAGE OF ALL ITEMS TO BE SALVAGED BY CONTRACTOR AND RETAINED BY OWNER.
2. REFER TO FLOOR PLAN FOR NEW LOCATIONS OF EXISTING ITEMS TO BE RELOCATED.
3. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR EXISTING P-M-E ITEMS TO BE REMOVED OR RELOCATED.

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BA Academy
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DEMOLITION PLAN

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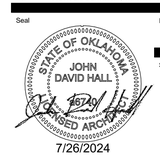
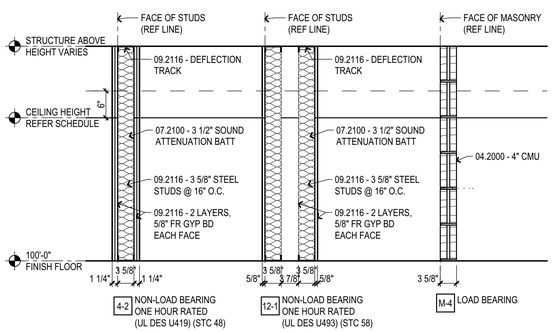


7/26/2024

Issue Date
7/26/2024

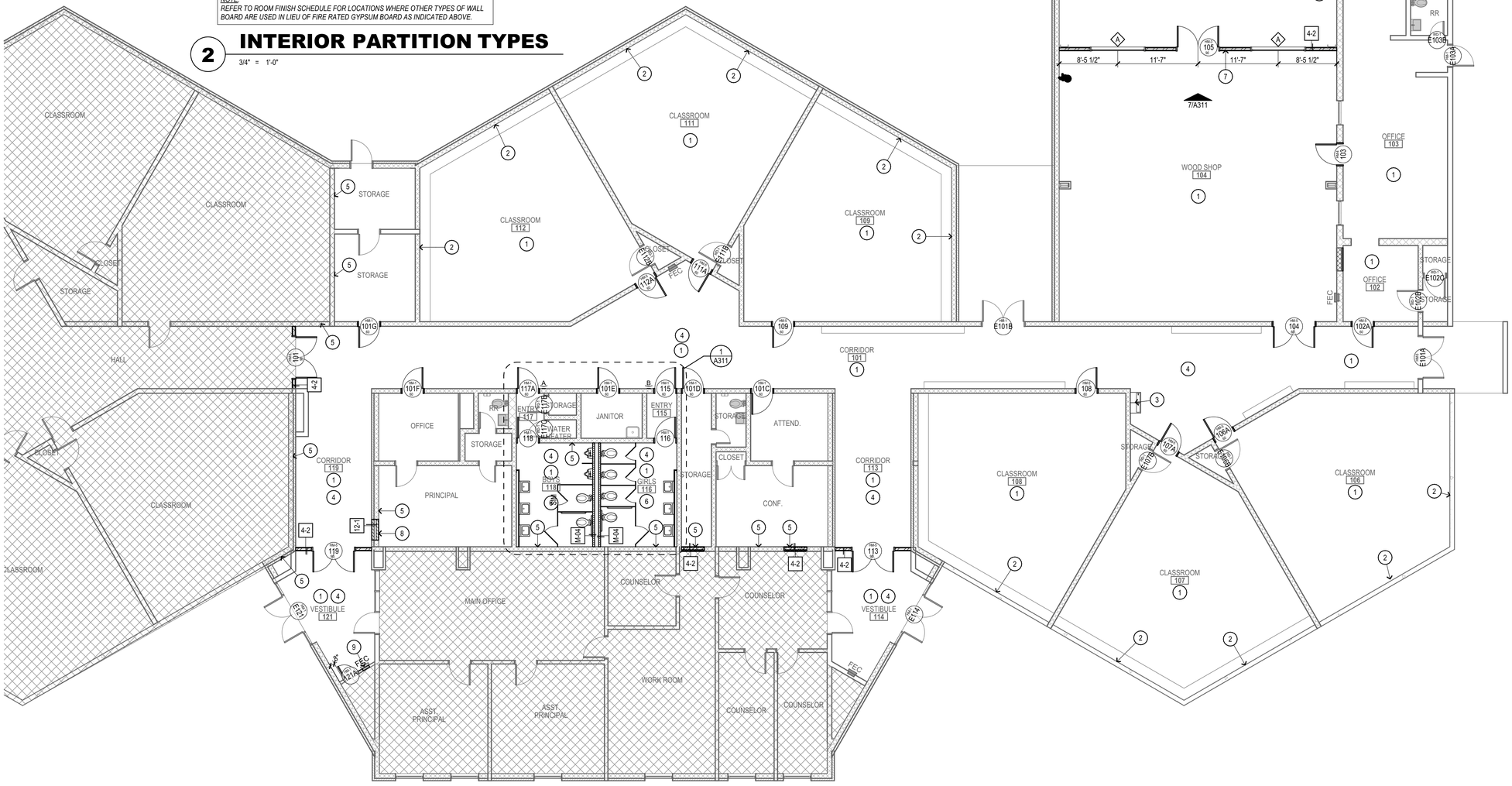
Sheet Number
A100



NOTE:
REFER TO ROOM FINISH SCHEDULE FOR LOCATIONS WHERE OTHER TYPES OF WALL BOARD ARE USED IN LIEU OF FIRE RATED GYPSUM BOARD AS INDICATED ABOVE.

2 INTERIOR PARTITION TYPES

3/4" = 1'-0"



1 FLOOR PLAN

1/8" = 1'-0"

0 4' 8' 16'

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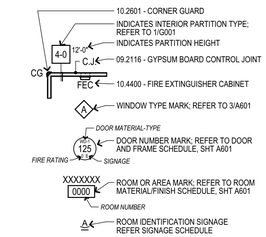
Revision Date	Revision

OUTSIDE AREA OF WORK

KEYED NOTES

1. PREPARE AND REPAIR WALLS AS NEEDED FOR PAINTING
2. PREPARE SOLID WINDOW PANELS FOR PAINT
3. INSTALL NEW HIGH AND LOW WATER COOLER UNIT
4. PATCH AND REPAIR EXISTING FLOORING
5. PATCH AND REPAIR PENETRATIONS IN 2 HOUR WALL
6. MODIFY EXISTING PLUMBING FOR NEW ADA RESTROOM LAYOUT
7. MODIFY EXISTING WALL TO 2 HOUR RATED WALL PAINT TO MATCH ADJACENT WALL
8. MODIFY EXISTING WALL TO 1 HOUR RATED WALL PAINT TO MATCH ADJACENT WALL
9. RELOCATE EXISTING FIRE EXTINGUISHER CABINET

FLOOR PLAN LEGEND



FLOOR PLAN NOTES

1. ALL DIMENSIONS ARE TO FACE OF STUD OR MASONRY UNLESS OTHERWISE NOTED.
2. LOCATE DOORS 6" FROM NEAREST CORNER TO OPENING FACE OF DOUBLE STUDS AT JAMB UNLESS OTHERWISE DIMENSIONED.
3. ALL ANGLES ARE 45°, 90° OR 135° UNLESS OTHERWISE NOTED.
4. NEW PARTITIONS THAT APPEAR TO ALIGN WITH EXISTING PARTITIONS OR OTHER ARCHITECTURAL ELEMENTS SHALL ALIGN FINISH SURFACE FLUSH WITH FINISH SURFACE UNLESS OTHERWISE NOTED.

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BA Academy
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412 S 9th St
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Sheet Title

FLOOR PLAN

Drawn

Project Number
2416

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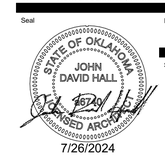

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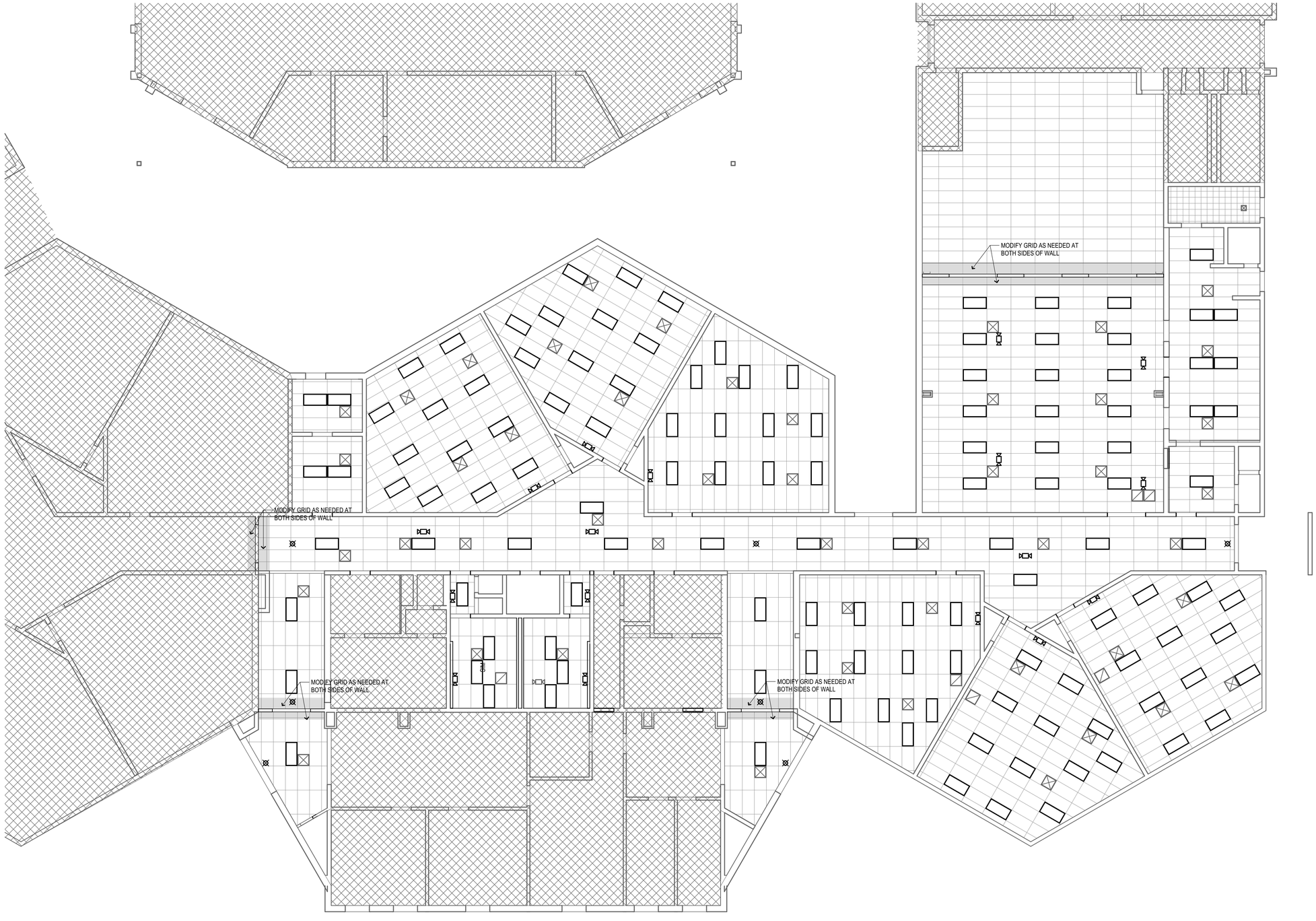
Issue Date
7/26/2024

Sheet Number
A101



1 REFLECTED CEILING PLAN

1/8" = 1'-0"

0 4' 8' 16'

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OUTSIDE AREA OF WORK

GENERAL NOTES

1. CEILING GRID AND MECHANICAL DEVICES TO REMAIN.
2. REPLACE ALL ACOUSTICAL CEILING TILES.
3. REPLACE LIGHT FIXTURES.
4. FIRE ALARM AND DEVICES TO REMAIN.

RCP SYMBOL LEGEND

CEILING CONSTRUCTION SYMBOLS

- 09.5100 - SUSP. CEILING W/ 2'x4' LAY-IN PANELS
- 09.5100 - SUSP. CEILING W/ 2'x2' LAY-IN PANELS
- 09.2116 - GYP BD CLG (REF RM FIN SCHED FOR FINISH)
- 08.3100 - CEILING ACCESS PANEL

LIGHT FIXTURE SYMBOLS

REFER ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE

- 2'x4' LAY-IN LED FIXTURE
- 2'x2' LAY-IN LED FIXTURE
- NL — 2'x4' LAY-IN FIXTURE w/ NIGHT LIGHT AND/OR EGRESS ILLUM. FUNCTION WHERE INDICATED
- NL — 2'x2' LAY-IN FIXTURE w/ NIGHT LIGHT AND/OR EGRESS ILLUM. FUNCTION WHERE INDICATED
- MEANS OF EGRESS ILLUMINATION FIXTURE
- EXIT SIGN
- LED STRIP FIXTURE
- RECESSED LED DOWNLIGHT FIXTURE

HVAC DEVICE SYMBOLS

REFER MECHANICAL DRAWINGS FOR EQUIPMNENT SCHEDULE

- RETURN AIR GRILLE
- SUPPLY AIR DIFFUSER
- EXHAUST FAN OR GRILLE
- LINEAR SUPPLY AIR DIFFUSER

FIRE PROTECTION, ALARM, & DETECTION DEVICE SYMBOLS

REFER FIRE PROTECTION DRAWINGS FOR EQUIPMENT SCHEDULI

- SPRINKLER HEAD
- S — SMOKE DETECTOR
- FIRE ALARM SIGNAL
- H — HEAT DETECTOR
- FS — FIRE STROBE

SECURITY / SURVEILLANCE / COMMUNICATIONS DEVICE SYMBOLS

REFER LOW VOLTAGE DRAWINGS FOR EQUIPMENT SCHEDULE

- S — SPEAKER
- C — CAMERA
- IC — INTERCOM UNIT
- MD — MOTION DETECTOR

Project Title

BA Academy Interior Renovation

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Sheet Title

REFLECTED CEILING PLAN

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A111

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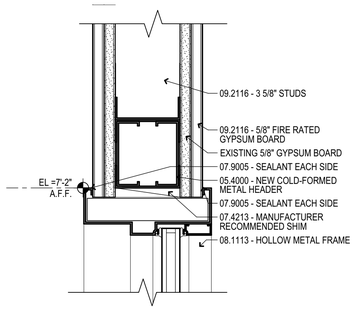
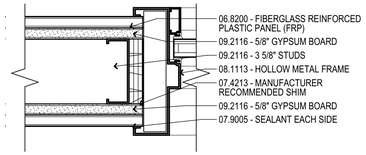


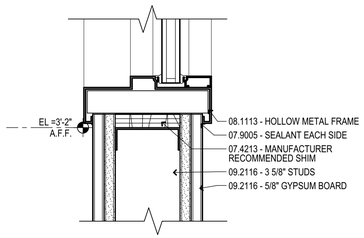
6 WINDOW HEAD

3" = 1'-0"



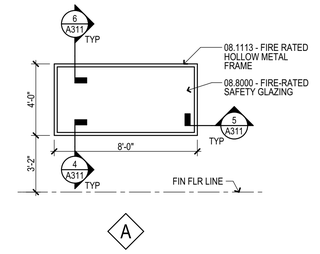
5 WINDOW JAMB

3" = 1'-0"



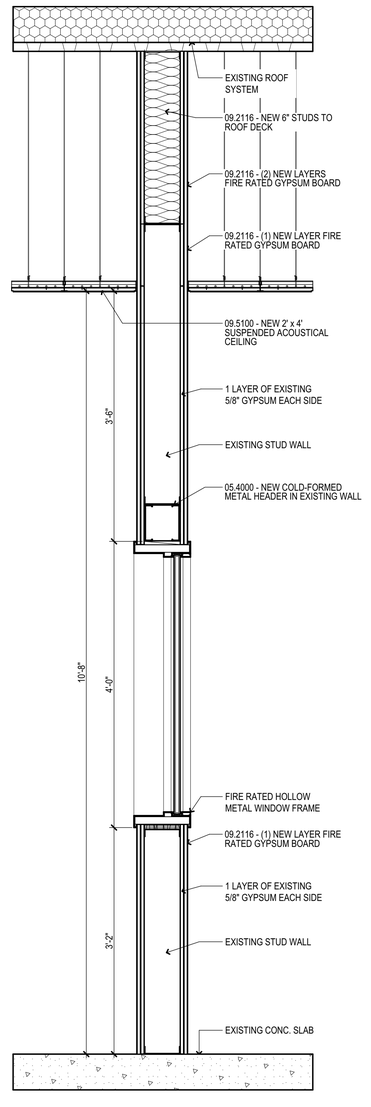
4 WINDOW SILL

3" = 1'-0"



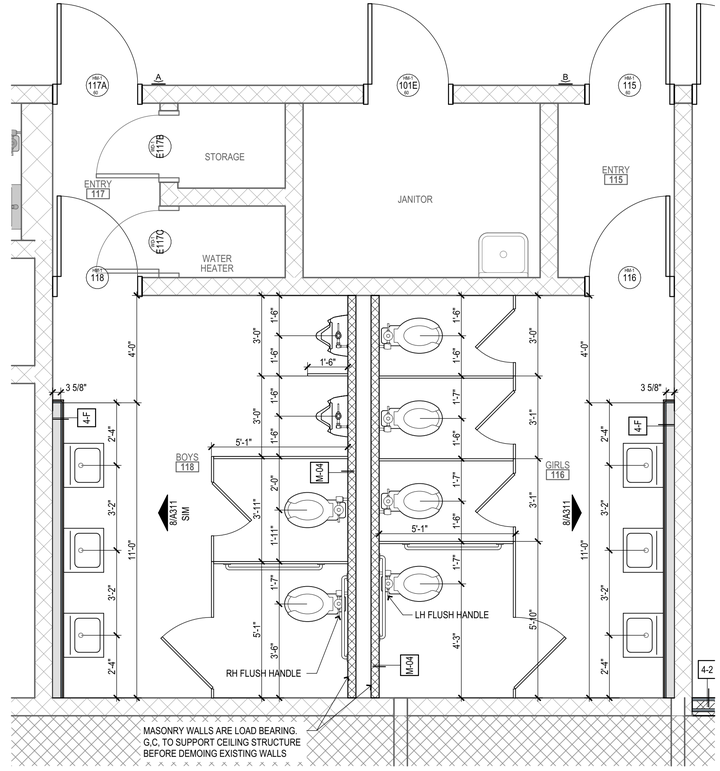
3 WINDOW TYPES

1/4" = 1'-0"



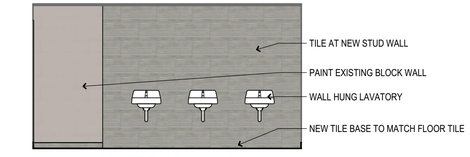
2 WALL SECTION

1" = 1'-0"



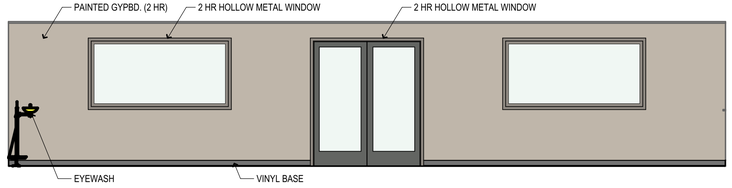
1 ENLARGED FLOOR PLAN

3/8" = 1'-0"



8 GIRLS 116

1/4" = 1'-0"



7 WOOD SHOP 104

1/4" = 1'-0"

Project Title

BA Academy
Interior Renovation

412 S 9th St
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Broken Arrow Public Schools

Sheet Title

RR PLAN, WALL/ WINDOW DETAILS AND ELEVATIONS

Drawn

Project Number
2416

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STATE OF OKLAHOMA
JOHN DAVID HALL
18749
REGISTERED ARCHITECT
7/26/2024

Issue Date
7/26/2024

Sheet Number
A311

ROOM FINISH SCHEDULE LEGEND

FLOOR FINISHES

MARK	SPEC	FINISH	SUBSTRATE	MANUFACTURER / COLOR
CONC-1	03 3000	CONCRETE SEALER / HARDENER	CONCRETE	EXISTING
CPT-1	09 6813	CARPET TILE - 18" x 36"	CONCRETE	J & J FLOORING / JOURNEY, QUICK SHIP, 3353 GOLD LEAD
ECPT	09 6813	EXISTING CARPET TOREMAIN	CONCRETE	EXISTING
EVT	09 6519	REPAIR EXISTING VINYL TILE	CONCRETE	MATCH EXISTING
TILE-1	09 3000	12"x24" PORCELAIN TILE	CONCRETE	CROSSVILLE / ACCESS POINT, TRAVERTINE ASH, UPS - UNPOLISHED WITH CROSS-SHEEN

WALL FINISHES

MARK	SPEC	FINISH	SUBSTRATE	MANUFACTURER / COLOR
PT-1	09 9000	LATEX PAINT	CMU BLOCK	SHERWIN WILLIAMS / ANEW GRAY SW7030
PT-2	09 9000	LATEX PAINT	GYPSUM BOARD	SHERWIN WILLIAMS / ANEW GRAY SW7030
TILE-1	09 3000	12"x24" PORCELAIN TILE	CMU BLOCK OR GYPSUM	CROSSVILLE / ACCESS POINT, TRAVERTINE ASH, UPS - UNPOLISHED WITH CROSS-SHEEN

BASE FINISHES

MARK	SPEC	FINISH	SUBSTRATE	MANUFACTURER / COLOR
RB-1	09 6513	4" RUBBER BASE	CMU BLOCK OR GYPSUM	ROPPE / DOLPHIN 129
TILE-2	09 3000	MATCH FLOOR TILE 4"x24"	CMU BLOCK OR GYPSUM	CROSSVILLE / ACCESS POINT, TRAVERTINE ASH, UPS - UNPOLISHED WITH CROSS-SHEEN

CEILING FINISHES

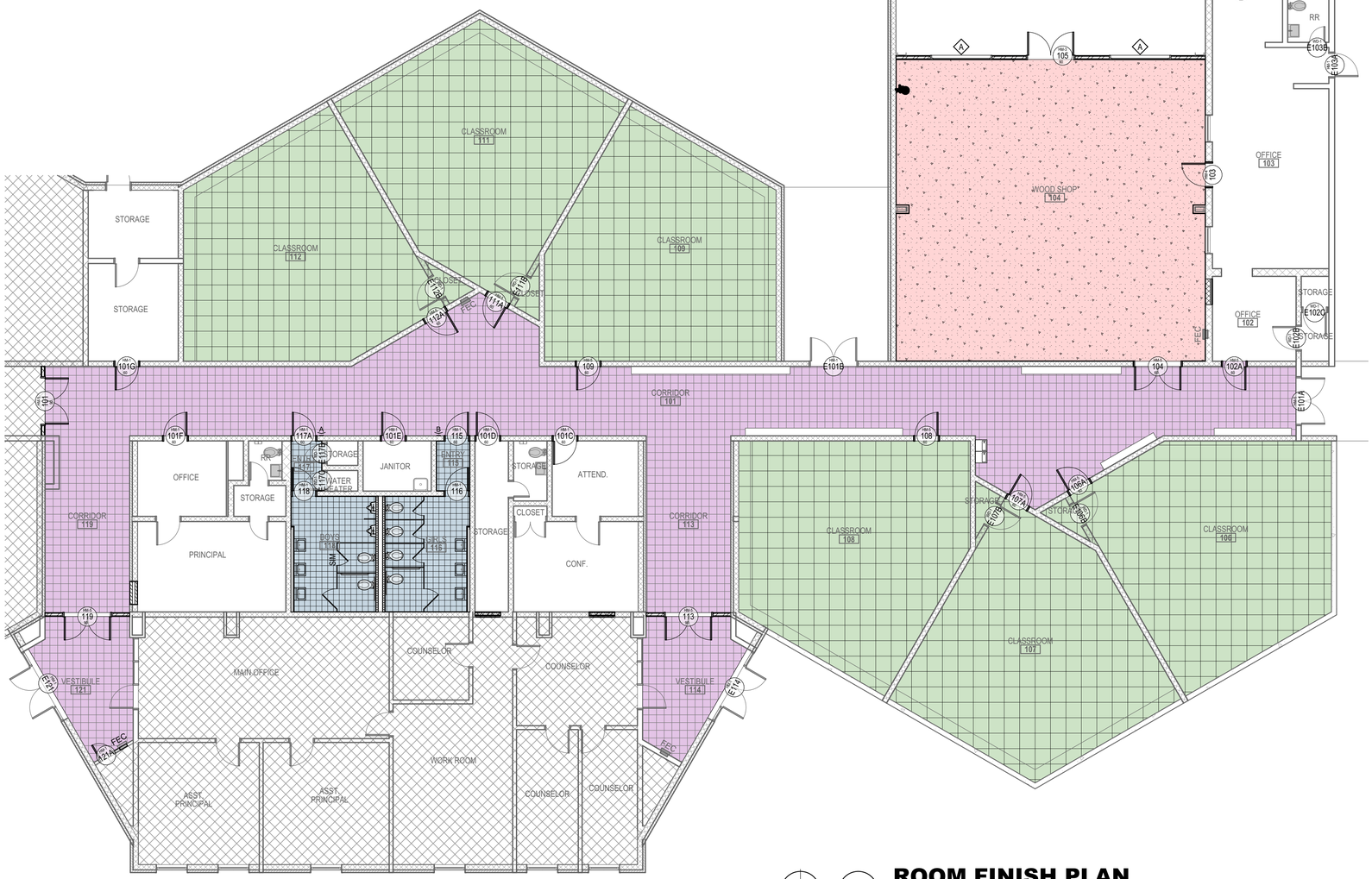
MARK	SPEC	FINISH	SUBSTRATE	MANUFACTURER / COLOR
ACP-1	09 5100	NEW 2x2x3/4 ACOUSTICAL PANELS	EXISTING SUSPENSION SYSTEM	#76775 - ECLIPSE SLT EDGE TILE

OTHER FINISHES

MARK	SPEC	FINISH	SUBSTRATE	MANUFACTURER / COLOR
DR-1	08 1000	LATEX PAINT	INTERIOR METAL DOORS	SHERWIN WILLIAMS / DOVETAIL SW7018
DR-2	09 9000	LATEX PAINT	HOLLOW METAL FRAMES	SHERWIN WILLIAMS / GRIZZLE GRAY SW7068
GR-1	09 3000	GROUT	CONCRETE	MAPIE / 107 IRON

ROOM MATERIAL-FINISH SCHEDULE

#	ROOM NAME	FLOOR	BASE	N WALL	E WALL	S WALL	W WALL	CEILING	CLG HT	REMARKS
101	CORRIDOR	EVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	7'-8"	REPAIR EXISTING FLOORING
102	OFFICE	ECPT	RB-1	PT-2	PT-2	PT-2	PT-2	ACP-1	8'-0"	
103	OFFICE	ECPT	RB-1	PT-2	PT-2	PT-2	PT-2	ACP-1	8'-0"	
104	WOOD SHOP	CONC-1	RB-1	PT-1	PT-1	PT-1	PT-2	ACP-1	10'-6"	
105	CLASSROOM	EXISTING	VARIES	EXISTING	EXISTING	PT-1	EXISTING	EXISTING	EXISTING	REPLACE BASE AT S WALL AS NEEDED MATCH EXISTING
106	CLASSROOM	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	7'-8"	
107	CLASSROOM	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	7'-8"	
108	CLASSROOM	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	7'-8"	
109	CLASSROOM	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	7'-8"	
111	CLASSROOM	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	7'-8"	
112	CLASSROOM	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	7'-8"	
113	CORRIDOR	EVT-1	RB-1	PT-1	PT-2	PT-1	PT-1	ACP-1	8'-7"	REPAIR EXISTING FLOORING
114	VESTIBULE	EVT-1	RB-1	PT-1	PT-1	PT-1	PT-2	ACP-1	8'-7"	REPAIR EXISTING FLOORING
115	ENTRY	TILE-1	TILE-4	PT-1	PT-1	PT-1	PT-1	ACP-1	7'-8"	
116	GIRLS	TILE-1	TILE-4	PT-1/TILE-1	PT-1	PT-1	PT-1	ACP-1	7'-8"	
117	ENTRY	TILE-1	TILE-4	PT-1	PT-1	PT-1	PT-1	ACP-1	7'-8"	
118	BOYS	TILE-1	TILE-4	PT-1	PT-1	PT-1/TILE-1	PT-1	ACP-1	7'-8"	
119	CORRIDOR	EVT-1	RB-1	PT-1	PT-2	PT-1	PT-1	ACP-1	8'-7"	REPAIR EXISTING FLOORING
121	VESTIBULE	EVT-1	RB-1	PT-1	PT-1	PT-1	PT-2	ACP-1	8'-7"	REPAIR EXISTING FLOORING



N 1 **ROOM FINISH PLAN**

1/8" = 1'-0"

0 4' 8' 16'

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Revision Date	Revision

FINISH NOTES

1. ALL WALLS IN AREA oOF WORK TO BE PATCHED AND PAINTED.
2. WHERE NEW WALLS HAVE BEEN CONSTRUCTED, THE SIDE FACING THE CONSTRUCTION AREA IS NO BE PAINTED TO MATCH ADJACENT WALL. THE OTHER SIDE DOES NOT NEED TO BE PAINTED. UNLESS NOTED OTHERWISE

LVT - 1

TILE - 1

CPT - 1

CONC - 1

Project Title

BA Academy
Interior Renovation

412 S 9th St
Broken Arrow, OK 74012

Broken Arrow Public Schools

Sheet Title

ROOM FINISH PLAN AND SCHEDULES

Drawn

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Project Number 2416

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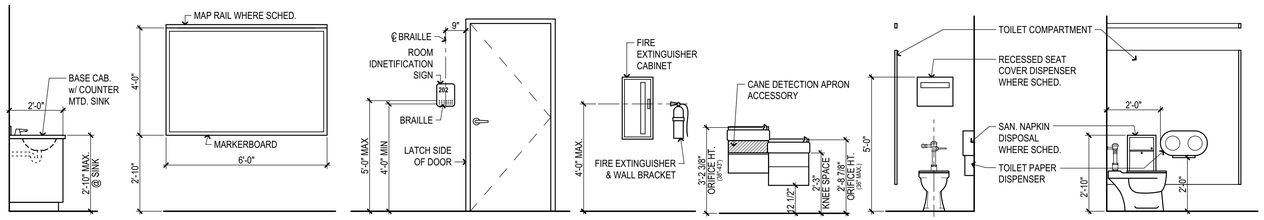
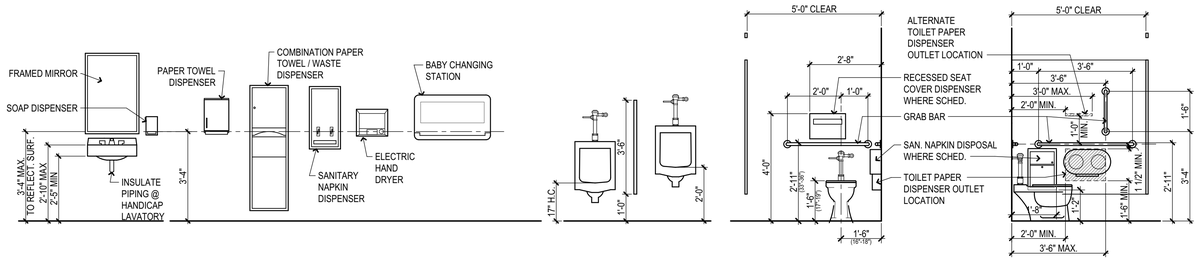
Sheet Number **A601**



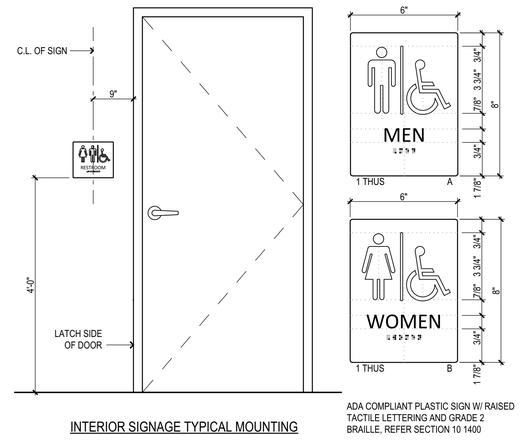
ACCESSIBLE BASE CABINET w/ SINK | VISUAL DISPLAY BOARDS | INTERIOR SIGNAGE | FIRE EXTINGUISHER CABINET or WALL MOUNTED EXTINGUISHER | DRINKING FNTN or WATER COOLER | BACK WALL OF STANDARD TOILET COMPARTMENT | SIDE WALL OF STANDARD TOILET COMPARTMENT



WALL-HUNG LAVATORY, MIRROR AND SOAP | TOILET ROOM ACCESSORIES | URINALS & SCREEN FRONT VIEW | BACK WALL ACCESSIBLE TOILET COMPARTMENT | SIDE WALL ACCESSIBLE TOILET COMPARTMENT

4 TYPICAL MOUNTING HEIGHTS

3/8" = 1'-0"



INTERIOR SIGNAGE TYPICAL MOUNTING

ADA COMPLIANT PLASTIC SIGN W/ RAISED TACTILE LETTERING AND GRADE 2 BRAILLE, REFER SECTION 10 1400

3 SIGNAGE SCHEDULE

3" = 1'-0"

Function Codes for Cylindrical Locks: BHMA A156.5.

Code F75; Passage: Latch retracted by levers at all times.

Code F76; Privacy Lock: Outside lever locked by pushbutton on inside lever. Rotating inside lever or closing door releases/ unlocks button. Emergency release in outside lever.
Hospital Privacy Lock: Latch bolt by levers. Outside lever locked by push button in inside lever. Rotating inside lever or closing door releases push button.
Emergency push button in outside lever unlocks door.

Code F77; Patio/Inner Office Lock: Outside lever locked by push button on inside lever. Rotating inside lever or closing door releases/unlocks button. Deadlocking latchbolt.

Code F78; Communicating Lock: Deadlocking latch bolt by levers. Either lever is locked by turn button in opposite lever.

Code F80; Communicating Lock: Deadlocking latch bolt by levers except when either lever is locked by key in its own cylinder.

Code F81; Office Lock: Turn button locking. Turning button on inside locks outside lever until unlocked by key or by rotating the inside lever. Inside lever always free. Deadlocking latch bolt.

Code F82; Entry Lock: Push button locking. Button on inside locks outside lever until unlocked by key or by rotating the inside lever. Inside lever always free. Deadlocking latch bolt.

Code F83; Exit Lock: Deadlocking latch bolt by levers except when outside lever is locked by turn button inside. Turn button must be manually unlocked to operate outside lever. Inside lever always free.
Exit Lock/Connecting Room: Deadlocking latch by inside lever except when locked by key. Nonremovable plate outside.

Code F84; Classroom Lock: Outside lever key in outside lever. Inside lever always free. Deadlocking latchbolt.

Code F85: Classroom Lock with Hold Back Feature: Deadlocking latch bolt by levers. Outside lever is locked by key in outside lever. Inside lever is always free. Latch may be held back by depressing latch and rotating key.

Code F86; Storeroom Lock: Outside lever always locked/rigid. Latchbolt retracted by key in outside lever or by rotating inside lever. Inside lever always free. Deadlocking latchbolt.
Storeroom (Electrified - Fail Safe): Latch bolt operated by lever from either side except when outer lever is electrically locked. When outer lever is locked (inoperative), latch bolt retracted by key in cylinder outside.
Storeroom (Electrified - Fail Secure): Deadlocking latch bolt operated by lever inside at all times. Outside lever inoperable until electrically unlocked, then latch bolt from either side. When outside lever is operable, latch bolt retracted by key in cylinder outside.

Code F87; Asylum Lock: Deadlocking latch bolt operated by key in lever from either side. Both levers are always inoperable.

Code F88; Entry/Restroom Lock: Deadlocking latch bolt by levers except when outside lever is locked by key inside, then by key outside.

Code F89; Exit Latch: Deadlocking latch bolt by inside lever. Outside lever inoperable.
Exit Latch/Connecting Room: bolt by inside lever. Nonremovable blank plate outside, projection.

Code F90; Dormitory Lock: Deadlocking levers except when locked by push button in inside lever. Key in outside lever locks or unlocks outside lever and releases button. Closing door releases push button. Inside lever always free.

Code F91; Store Door Lock: Deadlocking latch bolt by levers. Key in either lever locks/unlocks both levers.

Code F92; Service Station Door Lock: Deadlocking latch bolt by lever from either side except when outside lever is locked by universal push button in inside lever. Inside lever always free. When outside lever is locked, latch bolt may be retracted by turning key or rotating inside lever. Turning key, rotating inside lever, or closing door releases universal push button and outside lever, except when Universal push button has been rotated to a position which keeps the outside lever locked at all times.

Code F93; Hotel/Motel Lock: Outside lever fixed. Entrance by key only. Push button in inside lever activates visual occupancy indicator, allowing only emergency master key to operate. Rotation of inside spanner button provides lockout feature by keeping indicator projected.
Closet Lock: Deadlocking latch bolt by turn lever inside or lever outside except when outside lever is locked by key.
Closet Latch: Latch bolt by turn lever inside or lever outside at all times.

Code F109; Entry/Office Lock: Turn/Push button locking. Pushing and turning button on inside locks outside lever requiring use of a key until button is manually unlocked. Push button locking. Pushing button locks the outside lever until unlocked by key or by turning the inside lever. Inside lever always free.

Function Codes for Exit Devices: BHMA A156.3.

Code 01; Exit Device: Exit only/no trim.

Code 02; Exit Device: Entrance by pull/trim when actuating bar is locked down (Dogged-Down). Note-Fire Exit devices cannot be locked down.

Code 03; Exit Device: Entrance by trim when latchbolt is retracted by key (pullside). Unit is locked when the key is removed.
Code 04; Exit Device: Entrance by trim when latchbolt is retracted by key (pullside) or set in a retracted position by key.

Code 05; Exit Device: Entrance by thumbpiece. Key (pullside) locks/unlocks thumbpiece.

Code 06; Exit Device: Entrance by thumbpiece only when released by key (pullside). Unit is locked when the key is removed.

Code 07; Exit Device: Entrance by thumbpiece. Inside key (on pushside/on active device case) locks/unlocks thumbpiece. Outside key (pullside) retracts latch.

Code 08; Exit Device: Entrance by lever. Key (pullside) locks/ unlocks lever.

Code 09; Exit Device: Entrance by lever with key (pullside) only. Unit is locked when the key is removed.

Code 10; Exit Device: Entrance by lever. Inside key (pushside) locks/unlocks lever. Outside key (pullside) only retracts latch.

Code 11; Exit Device: Entrance by auxiliary control turnpiece. Key (pullside) locks/unlocks auxiliary control.

Code 12 ; Exit Device: Entrance by auxiliary control turnpiece only when released by turning key (pullside). Unit is locked when the key is removed.

DOOR AND FRAME SCHEDULE

ID	DOOR			FRAME				DETAILS			FIRE RTG.	HARDWARE		SIGNAGE	REMARKS
	SIZE	MAT'L	TYPE	MAT'L	DEPTH	4" HD	TYPE	JAMB	HEAD	SILL		SET	KEY SIDE		
101	PR 3'x7'	HM	5	HM	0'-7 1/8"		A	J1	H1	-	90	1			
101C	3'x7'	HM	1	HM	0'-9"		A	EXIST	EXIST	-	60	2			
101D	3'x7'	HM	1	HM	0'-9"		A	EXIST	EXIST	-	60	2			
101E	3'x7'	HM	1	HM	0'-9"			EXIST	EXIST	-	60	2			
101F	3'x7'	HM	1	HM	0'-9"		A	EXIST	EXIST	-	60	2			
101G	3'x7'	HM	1	HM	0'-9"		A	EXIST	EXIST	-	60	2			
102A	3'x7'	HM	5	HM	0'-9"		A	EXIST	EXIST	-	60	2			
103	3'x7'	HM	4	HM	1'-0"			EXIST	EXIST	-	0	2			
104	PR 3'x7'	HM	5	HM	0'-9"		A	EXIST	EXIST	-	60	2			
105	PR 3'x7'	HM	3	HM	0'-7 1/8"		A	J1	H1	-	90	2			
106A	3'x7'	HM	5	HM	0'-9"		A	EXIST	EXIST	-	60	2			
107A	3'x7'	HM	5	HM	0'-9"		A	EXIST	EXIST	-	60	2			
108	3'x7'	HM	5	HM	0'-9"		A	EXIST	EXIST	-	60	2			
109	3'x7'	HM	5	HM	0'-9"		A	EXIST	EXIST	-	60	2			
111A	3'x7'	HM	5	HM	0'-9"		A	EXIST	EXIST	-	60	2			
112A	3'x7'	HM	5	HM	0'-9"		A	EXIST	EXIST	-	60	2			
113	PR 3'x7'	HM	5	HM	0'-7 1/8"		A	J1	H1	-	90	1			
115	3'x7'	HM	1	HM	0'-9"		A	EXIST	EXIST	-	60	3			NEW DOOR IS FLIPPED
116	3'x7'	HM	1	HM	0'-9"			EXIST	EXIST	-	0	3			NEW DOOR IS FLIPPED
117A	3'x7'	HM	1	HM	0'-9"		A	EXIST	EXIST	-	60	3			
118	3'x7'	HM	1	HM	0'-9"			EXIST	EXIST	-	0	3			
119	PR 3'x7'	HM	5	HM	0'-7 1/8"		A	J1	H1	-	90	1			
121A	2'x7'	HM	1	HM	0'-5 1/4"			J2	H2	-	0	2			
E101A	PR 3'x7'	HM	5	HM	0'-9"			-	-	-	0	-			EXISTING HARDWARE TO REMAIN
E101B	PR 3'x7'	HM	1	HM	0'-9"			-	-	-	0	-			EXISTING HARDWARE TO REMAIN
E102B	3'x7'	WD	1	HM	0'-9"			-	-	-	0	2			
E102C	3'x7'	WD	1	HM	0'-9"			-	-	-	0	2			
E103A	3'x7'	HM	1	HM	0'-10"			-	-	-	0	-			EXISTING HARDWARE TO REMAIN
E103B	2'x7'	WD	1	HM	0'-9"			-	-	-	0	2			
E103C	3'x7'	WD	1	HM	0'-10"			-	-	-	0	2			
E103D	3'x7'	HM	1	HM	0'-10"			-	-	-	0	-			EXISTING HARDWARE TO REMAIN
E106B	3'x7'	WD	1	HM	0'-9"			-	-	-	0	2			
E107B	3'x7'	WD	1	HM	0'-9"			-	-	-	0	2			
E111B	3'x7'	WD	1	HM	0'-9"			-	-	-	0	2			
E112B	3'x7'	WD	1	HM	0'-9"			-	-	-	0	2			
E114	PR 3'x7'	HM	1	HM	0'-4 1/2"			-	-	-	0	-			EXISTING HARDWARE TO REMAIN
E117B	2'4x7'	WD	1	HM	0'-9"			-	-	-	0	2			
E117C	2'4x7'	WD	1	HM	0'-9"			-	-	-	0	2			
E121	PR 3'x7'	HM	1	HM	0'-4 1/2"			-	-	-	0	-			EXISTING HARDWARE TO REMAIN

DOOR MATERIAL LEGEND

SYMBOL	MATERIAL DESCRIPTION
HM	HOLLOW METAL
WD	WOOD VENEER, SOLID CORE

FRAME MATERIAL LEGEND

SYMBOL	MATERIAL DESCRIPTION
HM	HOLLOW METAL FRAME

DOOR HARDWARE SCHEDULE

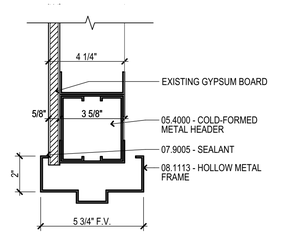
SET	DESCRIPTION
1	INTERIOR EGRESS DOOR WITH EXIT DEVICE
2	INTERIOR CLASSROOM / OFFICE / CLOSET DOOR WITH LOCKSET - ROOMS TO BE KEYED PER DISTRICT STANDARDS
3	INTERIOR PASSAGE DOOR WITH PUSH/PULL HARDWARE
4	
5	
6	
7	
8	

DOOR, FRAME, AND HARDWARE NOTES

TYPICAL DOOR FINISHES:
1. ALL HOLLOW METAL FRAMES AND DOORS TO BE ALKYD PAINT, SEMI-GLOSS FINISH.
2. ALL INTERIOR ALUMINUM STOREFRONT AND FRAMES TO BE CLEAR ANOD/ZED FINISH EXCEPT WHERE NOTED.

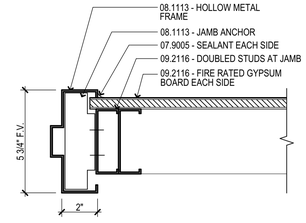
GLAZING:
1. ALL GLAZING IN DOORS AND ADJACENT SIDELITES SHALL BE FULLY TEMPERED SAFETY GLASS.

DOOR HARDWARE:
1) FINAL DOOR HARDWARE SHALL BE SPECIFIED AND PROVIDED BY AN ARCHITECTURAL HARDWARE CONSULTANT (AHC).
2) COORDINATE w/ OWNER FOR KEYING REQUIREMENTS.
3) ALL HARDWARE SHALL COMPLY WITH IBC 1010.1. ALL HARDWARE SHALL BE ACCESSIBLE / ADA COMPLIANT UNLESS NOTED OTHERWISE.
4) UNLESS NOTED OTHERWISE, DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
5) MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS ARE NOT PERMITTED UNLESS ALLOWED BY IBC 1010.1.9.4.
6) THE UNLATCHING OF ANY DOOR OR LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION UNLESS ALLOWED PER IBC 1010.1.9.5.



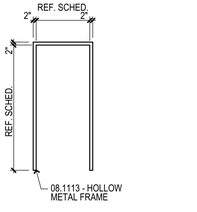
H2 DOOR DETAILS

3" = 1'-0"



J2 DOOR DETAILS

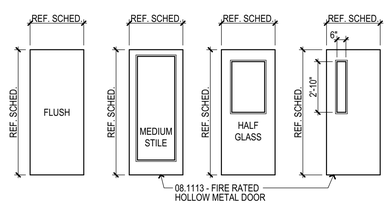
3" = 1'-0"



TYPE A

2 FRAME TYPE

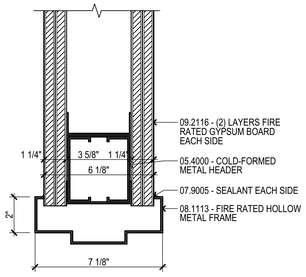
1/4" = 1'-0"



TYPE 1 | TYPE 3 | TYPE 4 | TYPE 5

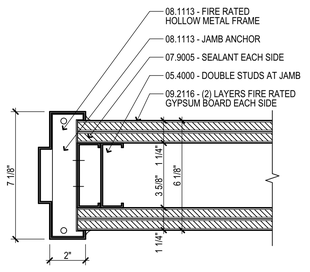
1 DOOR TYPE

1/4" = 1'-0"



H1 DOOR DETAILS

3" = 1'-0"



J1 DOOR DETAILS

3" = 1'-0"

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Revision Date	Revision

Project Title

BA Academy Interior Renovation

412 S 9th St
Broken Arrow, OK 74012

Broken Arrow Public Schools

Sheet Title

DOOR SCHEDULE AND DETAILS

Drawn
Project Number 2416
Checked

user: gklassen timestamp: 7/26/2024 - 3:57 PM
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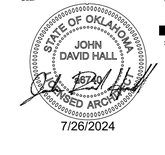

Issue Date 7/26/2024

Sheet Number **A611**

GENERAL NOTES:

1. WHERE STATED ELECTRICAL CONTRACTOR IS TO PROVIDE MATERIAL, IT IS TO BE KNOWN THAT PROVIDE MEANS TO FURNISH AND INSTALL.
2. PRIOR TO BID, THE CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE ALL EXISTING CONDITIONS AND THE EXTENT OF WORK TO BE DONE.
3. CONTRACTOR SHALL BE LICENSED TO PERFORM WORK IN THE STATE IN WHICH THIS PROJECT WILL BE COMPLETED. CONTRACTOR SHALL MAINTAIN A COPY OF THEIR LICENSE AGREEMENT WITH THEM TO SHOW TO INSPECTORS WHERE REQUIRED BY LOCAL CODES.
4. CONTACT UTILITY COMPANY PRIOR TO BID AND INCLUDE ALL FEES REQUIRED FOR CONNECTION OF THE UTILITIES.
5. PROVIDE TEMPORARY ELECTRICAL POWER AND LIGHTING TO JOB SITE, AS REQUIRED.
6. PROVIDE A GROUNDING CONDUCTOR IN ALL RACEWAYS, SIZED PER NATIONAL ELECTRICAL CODE.
7. ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID COPPER AND ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER USING BOLTED LUGS AT TERMINALS.
8. ALL WIRING DEVICES SHALL BE INSTALLED PLUMB, SQUARE, AND TRUE. ALL DEVICES INSTALLED AT A SINGLE LOCATION SHALL BE ALIGNED.
9. ALL WIRING DEVICES TO BE MOUNTED AS LISTED BELOW (TO CENTER OF DEVICE) UNLESS NOTED OTHERWISE ON DRAWINGS:
   - +18" AFF RECEPTACLE
   - +18" AFF DATA OUTLET
   - +46" AFF SWITCH

   ADJUST TO COORDINATE WITH MASONRY IF REQUIRED. REFER TO ARCHITECTURAL DRAWINGS BEFORE STARTING WORK.
10. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MARKING ALL SWITCHES, RECEPTACLES, AND FIXED EQUIPMENT WITH THE BRANCH CIRCUIT PANEL NAME AND NUMBER SERVING EACH DEVICE.
11. ALL DEVICE PLATES, OUTLET COVERS, ETC., FINISH/COLOR AS SPECIFIED UNLESS OTHERWISE DIRECTED BY THE ARCHITECT.
12. PROVIDE UNSWITCHED POWER TO ALL EXIT LIGHTS AND BATTERY CHARGING CIRCUIT OF EMERGENCY LIGHT FIXTURES.
13. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATIONS FOR LIGHT FIXTURE MOUNTING HEIGHTS AND CEILING TYPES.
14. EXISTING ELECTRICAL EQUIPMENT LAYOUT (LIGHT FIXTURES, RECEPTACLES AND DATA OUTLETS, ETC) ARE BASED ON AS-BUILT DRAWINGS AND/OR FIELD OBSERVATIONS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATIONS IN FIELD.
15. MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE SPECIFIED.
16. ALL CONDUIT SHALL BE INSTALLED AS HIGH AS POSSIBLE TO AVOID CONFLICTS WITH DUCTWORK AND PIPING. THE ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION WITH ALL OTHER TRADES.
17. ALL CONDUITS ARE TO BE CONCEALED IN WALLS OR CEILING. NO CONDUITS SHALL BE SURFACE MOUNTED, UNLESS SPECIFIED.
18. WHERE CONDUIT IS SURFACE MOUNTED IN EXPOSED LOCATIONS, CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, GROUPED WHERE PRACTICAL, AND PAINTED TO MATCH SURROUNDING FINISHES. COORDINATE CONDUIT ROUTING AND ALL PENETRATIONS THROUGH FINISHED SURFACES WITH ALL OTHER DISCIPLINES AS REQUIRED.
19. PROVIDE FIRESTOP AT ALL PENETRATIONS IN FIRE ENVELOPES. ALL DATA CABLES THROUGH FIREWALLS AND OUT OF IT ROOMS TO BE INSTALLED IN A STI FIRESTOP WIREWAY.
20. COORDINATE ALL INTERLOCK WIRING REQUIREMENTS WITH HVAC CONTRACTOR. PROVIDE BACK BOXES AT ALL THERMOSTAT AND CO2 LOCATIONS WITH 3/4" CONDUIT WITH PULL STRING TO ACCESSIBLE CEILING.

DEMOLITION NOTES:

1. BUILDING SHALL REMAIN IN OPERATION DURING THE COURSE OF THIS PROJECT. ARRANGE ANY REQUIRED WORK ON THE EXISTING SERVICE AND DISTRIBUTION EQUIPMENT SO THAT INTERRUPTION OF SERVICE TO EXISTING EQUIPMENT SHALL BE KEPT TO A MINIMUM WHILE BUILDING IS IN OPERATION. COORDINATE ANY SUCH SERVICE DISRUPTION WITH THE OWNER PRIOR TO DISRUPTION.
2. MAINTAIN FEEDERS TO EXISTING EQUIPMENT WHICH IS TO REMAIN. MAINTAIN BRANCH CIRCUITRY TO RECEPTACLES, LIGHTING, AND OTHER EQUIPMENT WHICH IS TO REMAIN BUT NOT SHOWN ON PLANS. WHERE DEMOLITION INTERRUPTS EXISTING ELECTRICAL CIRCUITS FEEDING EXISTING EQUIPMENT OR LIGHTING TO REMAIN, FURNISH AND INSTALL MATERIALS TO EXTEND POWER AS REQUIRED.
3. EXISTING CONDUIT AND WIRE SERVING EXISTING EQUIPMENT TO BE REMOVED BY THIS PROJECT SHALL BE REUSED WHERE POSSIBLE. VERIFY CONDITION OF BRANCH CIRCUITRY, CONDUIT, AND WIRE TO ENSURE THEY MEET ALL UL RATINGS AND REPLACE AS REQUIRED.
4. REMOVE OR RELOCATE EXISTING ELECTRICAL EQUIPMENT AND CONDUIT AS INDICATED ON THE PLANS, AND AS REQUIRED BY DEMOLITION. REMOVE ALL CONDUIT AND WIRE WHICH WILL NOT BE REUSED. REPAIR CONDUIT PENETRATIONS TO MATCH ADJACENT SURFACES.
5. VERIFY THAT ALL NEW, RELOCATED, AND EXISTING DEVICES IN SPECIFIED AREAS OF WORK ARE OPERATING PROPERLY. REPAIR AS REQUIRED.

ELECTRICAL SYMBOL LEGEND

(NOTE: ALL SYMBOLS MAY NOT BE USED)

A a	LIGHTING FIXTURE A=FIXTURE TYPE a=SWITCH DESIGNATION
A a	LIGHTING FIXTURE ON EMERGENCY POWER (PART OR ALL)
A	DOWN LIGHT/PENDANT LIGHTING FIXTURE
A	DOWN LIGHT/PENDANT LIGHTING FIXTURE ON EMERGENCY POWER
A	SCONCE/WALL PACK LIGHTING FIXTURE
A	SCONCE/WALL PACK LIGHTING FIXTURE ON EMERGENCY POWER
A	TRACK LIGHTING FIXTURE
A	SITE LIGHTING POLE (1,2,3,4 HEADS AS INDICATED ON PLANS)
A	CEILING FAN (A=WITH LIGHT FIXTURE)
	EXIT SIGN (SINGLE FACE, DOUBLE FACE) (ARROW DENOTES DIRECTION)
	EXIT SIGN WITH INTEGRAL EMERGENCY LIGHT
	BATTERY POWERED EMERGENCY LIGHT
$	SINGLE POLE SWITCH
$a	SINGLE POLE SWITCH - (a) MULTILEVEL SWITCHING DESIGNATION
$2	TWO POLE SWITCH
$3	3-WAY SWITCH
$4	4-WAY SWITCH
$C	INTERCOM CALL SWITCH
$D	DIMMER SWITCH
$K	KEY-OPERATED SWITCH
$L	LOW VOLTAGE SWITCH
$M	MANUAL MOTOR STARTER
$MC	MOMENTARY CONTACT SWITCH
$OS	OCCUPANCY SENSOR SWITCH
$P	SWITCH W/ PILOT LAMP
$R	RAISE-LOWER SWITCH
$V	VOLUME CONTROL SWITCH
$VS	VACANCY SENSOR SWITCH
$T	TIMER SWITCH
$B	DIGITAL CONTROL SWITCH - (#B) # OF BUTTONS
OS	OCCUPANCY SENSOR (C-CEILING, W-WALL MOUNT)
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	QUADRA-PLEX RECEPTACLE
	CEILING MOUNTED RECEPTACLE
	SPECIAL RECEPTACLE
D T	FLOOR BOX - RECEPTACLE/DATA/TELEPHONE
	TELEPHONE OUTLET
	DATA OUTLET
	COMBINATION DATA OUTLET (TELEPHONE, COMPUTER, ETC.)
AP	WIRELESS ACCESS POINT (CABLE ONLY)
S	SPEAKER
TV	CABLE TV OUTLET (CABLE ONLY)
M	MICROPHONE OUTLET
	SECURITY/ TV CAMERA
EX	EXIT REQUEST
CR	CARD READER
DH	DOOR HOLDER
ML	MAGNETIC LOCKS
CH	CHIME
	DOOR BELL
	BUZZER
	PUSHBUTTON
HC	ADA DOOR ACTUATOR PUSHBUTTON
DS	DOOR SWITCH
	PUSH BUTTON - UP/DOWN/STOP

PP	UTILITY POWER POLE
J	JUNCTION BOX
P	SERVICE POLE
X	MOTOR CONNECTION (NO. DENOTES HP)
SX	DISCONNECT SWITCH (DESIGNATION, SEE SWITCH SCHEDULE)
	CONTACTOR
	MOTOR STARTER
	COMBINATION STARTER-DISCONNECT
T	TRANSFORMER
	METER
	CLOCK OUTLET 6" BELOW CEILING
PE	PHOTO ELECTRIC CONTROL SENSOR
TC	TIME CLOCK CONTROLLER
FLUSH	PANELBOARDS
SURFACE	DISTRIBUTION BOARD
	MULTI-USE PANEL
ICM	INTERCOM MASTER
IC	INTERCOM
	SMOKE DETECTOR
FACP	FIRE ALARM CONTROL PANEL
RFAP	REMOTE FIRE ALARM PANEL (ANNUNCIATOR)
	WEATHERHEAD
	SURFACE PLUGMOLD STRIP
	ELECTRICAL GROUND
	CONDUIT CONCEALED IN WALLS OR ABOVE CEILINGS
	CONDUIT CONCEALED IN OR UNDER FLOORS
	CONDUIT HOMERUN (ARROWS DENOTE NO. OF CKTS)
AM	ABOVE MILLWORK
AFF	ABOVE FINISHED FLOOR, MIDDLE OF DEVICE
AFG	ABOVE FINISHED GRADE
EWC	ELECTRIC WATER COOLER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFEP	GROUND FAULT EQUIPMENT PROTECTION
IG	ISOLATED GROUND
NF	NON-FUSIBLE
NL	NIGHT LIGHT
NS	NON-SWITCHED
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS (RECEPT WITH INTEGRAL USB PORTS)
VFD	VARIABLE FREQUENCY DRIVE UNIT
WP	WEATHERPROOF DEVICE
WR	WEATHERPROOF RATED

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CA 7195 (PE/LS) EXPIRES 06/30/2026

Revision Date	Revision

Project Title

BA Academy Interior Renovation

412 S 9th St
Broken Arrow, OK 74012

Sheet Title

ELECTRICAL LEGEND AND GENERAL NOTES

Drawn	JCK	Project Number	2416
Checked	RHG		

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REGISTERED PROFESSIONAL ENGINEER
JENNIFER CORA KEITH
24991
OKLAHOMA
07/26/2024

Issue Date: 07/26/2024

Sheet Number: **E001**

1 POWER AND COMMUNICATIONS PLAN
1/8" = 1'-0"

POWER GENERAL NOTES

1. MOUNT JUNCTION BOXES FOR DATA WITHIN 12" OF NEAREST RECEPTACLE.
2. MECHANICAL EQUIPMENT CONTROL:
   A. FURNISH AND INSTALL BOXES, CONDUIT, AND CONTROL CABLE FOR ALL CONTROLS AS INDICATED ON MECHANICAL DRAWINGS. VERIFY REQUIRED LOCATIONS WITH MECHANICAL CONTRACTOR.
   B. ALL CONTROLS FOR MECHANICAL EQUIPMENT WILL BE FURNISHED WITH MECHANICAL EQUIPMENT BY MECHANICAL CONTRACTOR UNLESS SPECIFIED OTHERWISE ON DRAWINGS.
   C. FINAL EQUIPMENT CONNECTIONS LESS THAN 120 VOLTS SHALL BE PERFORMED BY MECHANICAL CONTRACTOR. MAKE ALL OTHER REQUIRED EQUIPMENT CONNECTIONS.

FIRE ALARM PERFORMANCE NOTES

GENERAL REQUIREMENTS

1. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING, SIGNING, SEALING, AND SUBMITTING ALL FIRE ALARM PLANS AS REQUIRED FOR ANY EXTENSION OF THE EXISTING BUILDING SYSTEMS. THIS MAY INCLUDE BATTERY CALCULATIONS, CUT SHEETS, AND SUBMITTALS TO THE AUTHORITY HAVING JURISDICTION FOR APPROVAL AND PERMITTING.
2. UPON COMPLETION OF THE INSTALLATION, A COPY OF THE FIRE ALARM SYSTEM RECORD OF COMPLETION SHALL BE SUBMITTED TO THE CLIENT PRIOR TO RECEIPT OF FINAL PAYMENT.
3. ADDITIONS OR MODIFICATIONS TO THE EXISTING BUILDING'S FIRE ALARM SYSTEM AS REQUIRED FOR THIS MODIFICATION SHALL BE DESIGNED AND INSTALLED PER THE REQUIREMENTS OF NFPA 72 AND APPLICABLE LOCAL CODES AND ORDINANCES.
4. SYSTEM DESIGN SHALL INCLUDE, BUT NOT BE LIMITED TO: FIRE ALARM CONTROL PANEL(S), SMOKE DETECTORS, HEAT DETECTORS, FLOW SWITCHES, TAMPER SWITCHES, PULL STATIONS, AND OTHER INITIATING DEVICES AS REQUIRED FOR THE SPECIFIC INSTALLATION; STROBES, HORN/STROBES, SPEAKERS, ELECTRIC BELLS AND/OR WATER GONGS, AND OTHER ANNUNCIATING DEVICES AS REQUIRED FOR A COMPLETE SYSTEM.
5. ALL MATERIAL PROVIDED SHALL MATCH THE BRAND AND STYLE OF DEVICES SERVING EXISTING BUILDING.
6. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED CONDUITS, JUNCTION BOXES, FITTINGS, BUSHINGS, GUTTERS, FASTENERS, WIRE, ETC. FOR A COMPLETE SYSTEM INSTALLATION. THE FIRE ALARM SYSTEM INSTALLATION SHALL NOT COMPROMISE THE ARCHITECTURAL INTEGRITY OF A SPACE AND THE CONTRACTOR SHALL COORDINATE INSTALLATION OF RACEWAYS AND JUNCTION BOXES WITH ALL OTHER TRADES PRIOR TO ROUGH-IN. FAILURE TO COORDINATE SYSTEM COMPONENTS WILL RESULT IN RELOCATION OF DEVICES AND/OR COMPONENTS AT CONTRACTOR'S EXPENSE.
7. EACH ITEM SHALL BE TESTED AND CERTIFIED AS PER ALL APPLICABLE CODES AT LEAST 24 HOURS PRIOR TO THE FIRE MARSHAL'S SCHEDULED INSPECTION OF THE SYSTEM.
8. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE WORK, TRENCHING, BACKFILL, CONDUIT, WIRE, ETC. FOR ALL REMOTE DEVICES SUCH AS, BUT NOT LIMITED TO: REMOTE TAMPER DEVICES, REMOTE PUMP HOUSES, FIRE PUMP CONTROL PANELS, ETC.

EXECUTION

1. MAKE CONNECTIONS TO THE EXISTING FIRE ALARM SYSTEM AS REQUIRED.
2. PROVIDE RELAYS AND ALL NECESSARY COMPONENTS, AS REQUIRED BY CODE, TO CONNECT THE HVAC EQUIPMENT TO THE CONTROL PANEL FOR AUTOMATIC SHUTDOWN UPON INITIATION BY THE FIRE ALARM SYSTEM.
3. SMOKE AND/OR HEAT DETECTORS SHALL BE INSTALLED WHERE REQUIRED PER APPLICABLE CODES AND STANDARDS AND SHALL BE POWERED BY THE AUXILIARY POWER SUPPLY OF THE FACP. GROUP DETECTORS AS ALLOWABLE PER CODE OTHERWISE, EACH DETECTOR SHALL BE DESIGNATED AS AN INDIVIDUAL POINT.
4. DUCT SMOKE DETECTORS, SMOKE, AND/OR FIRE DAMPERS WHERE USED, ARE PROVIDED BY THE MECHANICAL CONTRACTOR. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING THE DETECTORS TO THE FIRE ALARM SYSTEM.
5. ALL FLOW AND TAMPER SWITCHES SHALL BE DESIGNATED AS INDIVIDUAL POINTS.
6. ALL AUDIO AND/OR VISUAL DEVICES SHALL BE CEILING MOUNTED WHERE FEASIBLE.
7. VISUAL ANNUNCIATION DEVICE CANDELA LEVELS SHALL BE SET TO THE MINIMUM REQUIRED PER CODE WITH STANDARD OUTPUTS OF: 15CD, 30CD, 45CD, 55CD, 60CD, 75CD, 80CD, 95CD, 110CD, 115CD, 150CD, AND HIGHER AS MAY BE NECESSARY TO MEET THE MINIMUM REQUIRED INTENSITY LEVEL FOR A SPECIFIC VOLUME AND/OR FUNCTION OF SPACE.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
E001	PANELBOARD IS EXISTING TO REMAIN. COORDINATE RELOCATION OF EXISTING CIRCUITS TO REMAIN AS REQUIRED AND PROVIDE NEW CIRCUITRY AS SHOWN ON PLANS.
E002	EXISTING ELECTRIC WATER COOLER (EWC) RECEPTACLE SHALL REMAIN. ENSURE WATER COOLERS ARE MOUNTED IN AN ACCESSIBLE MANNER, ADJACENT TO EWC CABINET OR BEHIND ACCESSIBLE PANEL. REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS.
E003	EXISTING DEVICES IN THIS AREA (NOT SHOWN) SHALL REMAIN. REPLACE DEFECTIVE DEVICES AS REQUIRED AND VERIFY THAT ALL NEW, RELOCATED AND EXISTING DEVICES IN SPECIFIED AREAS OF WORK ARE OPERATING PROPERLY.
E004	EXISTING DEVICES IN THIS AREA MARKED WITH AN "E" ARE EXISTING. INTERCEPT EXISTING CIRCUITRY FEEDING DEVICES. RE-CIRCUIT TO NEW PANELBOARD "S" AS INDICATED. REPLACE DEVICES AND COVERS (PROVIDE STAINLESS STEEL COVERS) AS REQUIRED AND VERIFY THAT ALL NEW, RELOCATED AND EXISTING DEVICES IN SPECIFIED AREA OF WORK ARE OPERATING PROPERLY. IDENTIFY LOCATION FEEDING EXISTING AND UPDATE CIRCUITS IN PANELBOARD AS "SPARE"
E006	PROVIDE NEW 20 AMP, 120 VOLT CIRCUIT(S). FEED FROM PANELBOARD AS INDICATED. PROVIDE 20A/1P CIRCUIT BREAKER IF NEEDED. MATCH TYPE AND AIC RATINGS OF EXISTING CIRCUIT BREAKERS. VERIFY PRIOR TO ROUGH-IN THAT EXISTING PANELBOARD HAS SPARE CAPACITY TO ACCOMMODATE ADDITIONAL LOAD.
E007	PROVIDE NEW CIRCUIT BREAKER (30A/2P). FEED FROM PANELBOARD AS INDICATED. MATCH TYPE AND AIC RATINGS OF EXISTING CIRCUIT BREAKERS. VERIFY PRIOR TO ROUGH-IN THAT EXISTING PANELBOARD HAS SPARE CAPACITY TO ACCOMMODATE ADDITIONAL LOAD.
E010	KEYED SAFETY SHUTOFF FOR WORKSHOP. PROVIDE ISIMET LAV2-LV-K-F-E-X-C. COORDINATE ALL CONNECTIONS WITH CONTACTOR BOX.
E011	CONTACTOR BOX FOR CONTROLLED CIRCUITS IN SHOP. PROVIDE ISIMET E-SERIES E-3-1-XX-1X2/100-S-L . ROUTE FEEDER FOR PANEL "S" VIA CONTACTOR BOX FOR SAFETY DISCONNECT OF POWER TO PANEL VIA KEYED SWITCH IN SHOP.

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Revision Date	Revision

Project Title

BA Academy Interior Renovation

412 S 9th St
Broken Arrow, OK 74012

Sheet Title

POWER AND COMMUNICATIONS PLAN

Drawn	JCK	Project Number	2416
Checked	RHG		

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REGISTERED PROFESSIONAL ENGINEER
JENNIFER CORA KEITH
07/26/2024
24991
OKLAHOMA

Issue Date
07/26/2024

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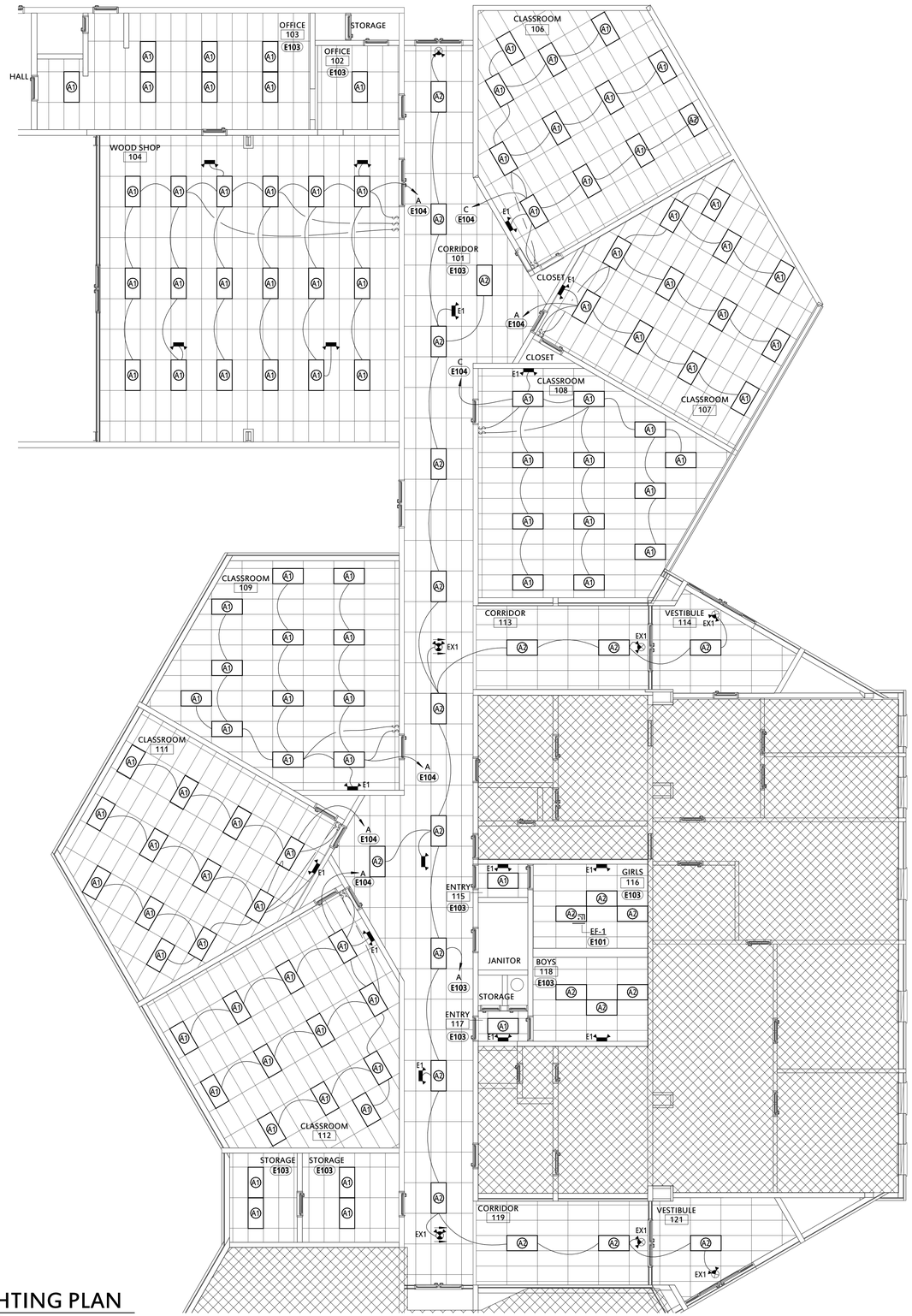
E101



1 LIGHTING PLAN
1/8" = 1'-0"

LIGHTING GENERAL NOTES

1. LIGHTING FIXTURE LOCATIONS ARE SCHEMATIC IN NATURE. LOCATION ADJUSTMENTS PRIOR TO INSTALLATION SHALL BE MADE AT NO COST TO OWNER. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN.

2. EXIT SIGNS: CONNECT TO THE UNSWITCHED LINE SIDE OF LIGHTING CIRCUIT OR NIGHT LIGHT CIRCUIT SERVING ADJACENT AREA.
   A. IN AREAS WITHOUT CEILING, OR CEILINGS ABOVE 9'-0", MOUNT ON WALL CENTERED 12" ABOVE THE DOOR OPENING.
   B. IN AREAS WITH CEILING, 9'-0" OR LESS ABOVE FINISH FLOOR, MOUNT ON CEILING CENTERED ABOVE THE DOOR OPENING.
   C. WHEN NOT SHOWN ON WALL, MOUNT 12" BELOW CEILING AT LOCATION SHOWN.

3. EMERGENCY LIGHTS: CONNECT TO THE UNSWITCHED LINE SIDE OF LIGHTING CIRCUIT OR NIGHT LIGHT CIRCUIT SERVING ADJACENT AREA.
   A. INSTALL WALL MOUNTED TYPE ON WALL OR COLUMN, 12" BELOW CEILING.
   B. INSTALL EXTERIOR WALL MOUNTED TYPE CENTERED 12" ABOVE DOOR OPENING.
   C. CONNECT EMERGENCY BATTERY TO UNSWITCHED LINE SIDE OF LIGHTING CIRCUIT OR NIGHT LIGHT CIRCUIT SERVING ADJACENT AREA.

4. OCCUPANCY SENSORS:
   A. WHERE MULTIPLE SENSORS OR SWITCH-BASED SENSORS ARE SHOWN WITHIN A ROOM/SPACE, CONNECT SENSORS SUCH THAT ANY SENSOR WILL CONTROL ENTIRE AREA(S) SHOWN TO BE SWITCHED.
   B. PROVIDE DUAL-TECHNOLOGY SENSORS. PROVIDE POWER PACKS AS REQUIRED TO ACCOMPLISH CONTROL SCHEME SHOWN.
      1. TYPE "A": SENSOR SWITCH CM(R)-PDT-9 OR EQUIVALENT
      2. TYPE "B": SENSOR SWITCH CM(R)-PDT-10 OR EQUIVALENT
      3. TYPE "C": SENSOR SWITCH WV(R)-PDT-16 OR EQUIVALENT
      4. SWITCH TYPE: SENSOR SWITCH WSX OR EQUIVALENT

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
E101	MAKE CONNECTIONS TO EXHAUST FAN SO THAT IT IS SWITCHED WITH LIGHTS WHEN LIGHT SWITCH IS ACTIVATED IN EITHER BOYS OR GIRLS RESTROOMS
E103	CONNECT NEW LIGHTING FIXTURES IN THIS SPACE TO EXISTING CIRCUIT PREVIOUSLY SERVING AREA LIGHTING THAT WAS REMOVED. MAINTAIN EXISTING CIRCUIT CONTROL UNLESS NOTED OTHERWISE. PROVIDE CONSTANT HOT FOR EMERGENCY, EXIT AND LOCALLY CONTROLLED LIGHT FIXTURES.
E104	RE-CONNECT NEW LIGHTING FIXTURES IN THIS SPACE TO A SINGLE CIRCUIT AS INDICATED. AREA WAS FORMERLY SERVED BY MULTIPLE CIRCUITS, REMOVE UNUSED CIRCUIT(S) TO PANEL AND MARK BREAKER AS SPARE. PROVIDE CONSTANT HOT FOR EMERGENCY, EXIT AND LOCALLY CONTROLLED LIGHT FIXTURES.

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412 S 9th St
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LIGHTING PLAN

Drawn	Author	Project Number	2416
Checked	RHG		

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D — ELECTRICAL PANEL

AMP RATING:	225 A	**VOLTS/PHASE:**	120/240 Single/1	**SECTION(S):**	1	**A.I.C. Rating:**	
MAINS:	MCB	**WIRE W/GRD. BAR:**	3	**TYPE:**	NQ	**MOUNTING:**	Surface
MCB RATING:	200 A	**CIRCUIT:**	42	**BUS:**	CU	**NEMA:**	Type 1

#	Circuit Description	Trip	P	W	A		B		W	P	Trip	Circuit Description	#
1	VERIFY EXISTING LOAD	20	1	--	0.00	0.00			--	1	20	VERIFY EXISTING LOAD	2
3	VERIFY EXISTING LOAD	20	1	--			0.00	0.00	--	1	20	VERIFY EXISTING LOAD	4
5	VERIFY EXISTING LOAD	20	1	--	0.00	0.00			--	1	20	VERIFY EXISTING LOAD	6
7	VERIFY EXISTING LOAD	20	1	--			0.00	0.00	--	1	20	VERIFY EXISTING LOAD	8
9	VERIFY EXISTING LOAD	20	1	--	0.00	0.00			--	1	20	VERIFY EXISTING LOAD	10
11	VERIFY EXISTING LOAD	20	1	--			0.00	0.00	--	1	20	VERIFY EXISTING LOAD	12
13	VERIFY EXISTING LOAD	20	1	--	0.00	0.00			--	1	20	VERIFY EXISTING LOAD	14
15	VERIFY EXISTING LOAD	20	1	--			0.00	0.00	--	1	20	VERIFY EXISTING LOAD	16
17	VERIFY EXISTING LOAD	20	1	--	0.00	0.00			--	1	20	VERIFY EXISTING LOAD	18
19	VERIFY EXISTING LOAD	60	2	--			0.00	--	--	1	--	SPACE	20
21					0.00	0.00			--	2	20	VERIFY EXISTING LOAD	22
23	VERIFY EXISTING LOAD	20	1	--			0.00	0.00					24
25	VERIFY EXISTING LOAD	20	1	--	0.00	0.00			--	1	20	VERIFY EXISTING LOAD	26
27	VERIFY EXISTING LOAD	20	1	--			0.00	0.00	--	1	20	VERIFY EXISTING LOAD	28
29	VERIFY EXISTING LOAD	20	1	--	0.00	0.00			--	1	20	VERIFY EXISTING LOAD	30
31	VERIFY EXISTING LOAD	20	1	--			0.00	0.00	--	1	20	VERIFY EXISTING LOAD	32
33	VERIFY EXISTING LOAD	20	1	--	0.00	0.00			--	1	20	VERIFY EXISTING LOAD	34
35	VERIFY EXISTING LOAD	20	1	--			0.00	0.00	--	1	20	VERIFY EXISTING LOAD	36
37	VERIFY EXISTING LOAD	20	1	--	0.00	0.00			--	1	20	VERIFY EXISTING LOAD	38
39	VERIFY EXISTING LOAD	20	1	--			0.00	0.00	--	1	20	VERIFY EXISTING LOAD	40
41	VERIFY EXISTING LOAD	20	1	--	0.00	0.00			--	1	20	VERIFY EXISTING LOAD	42
			Connected Load:		0.00 kVA		0.00 kVA						
			Connected Amps:		0 A		0 A						
			Total Load:		0 kVA								
			Demand load:		0 kVA								

S — ELECTRICAL PANEL

AMP RATING:	100 A	**VOLTS/PHASE:**	120/240 Single/1	**SECTION(S):**	1	**A.I.C. Rating:**	
MAINS:	MLO	**WIRE W/GRD. BAR:**	3	**TYPE:**	NQ	**MOUNTING:**	Surface
		CIRCUIT:	30	**BUS:**	CU	**NEMA:**	Type 1

#	Circuit Description	Trip	P	W	A		B		W	P	Trip	Circuit Description	#
1	CORD REEL - WOOD SHOP	20	1	12	1.20	0.18			12	1	20	RECEPT - WOOD SHOP	2
3	CORD REEL - WOOD SHOP	20	1	12			1.20	0.36	12	1	20	RECEPT - WOOD SHOP	4
5	CORD REEL - WOOD SHOP	20	1	12	1.20	0.18			12	1	20	RECEPT - WOOD SHOP	6
7	CORD REEL - WOOD SHOP	20	1	12			1.20	0.18	12	1	20	RECEPT - WOOD SHOP	8
9	CORD REEL - WOOD SHOP	20	1	12	1.20	0.18			12	1	20	RECEPT - WOOD SHOP	10
11	CORD REEL - WOOD SHOP	20	1	12			1.20	0.18	12	1	20	RECEPT - WOOD SHOP	12
13	CORD REEL - WOOD SHOP	20	1	12	1.20	0.18			12	1	20	RECEPT - WOOD SHOP	14
15	CORD REEL - WOOD SHOP	20	1	12			1.20	0.18	12	1	20	RECEPT - WOOD SHOP	16
17	Spare	20	1	--	0.00	0.18			12	1	20	RECEPT - WOOD SHOP	18
19	Spare	20	1	--			0.00	0.18	12	1	20	RECEPT - WOOD SHOP	20
21	Spare	20	1	--	0.00	0.18			12	1	20	RECEPT - WOOD SHOP	22
23	Spare	20	1	--			0.00	0.18	12	1	20	RECEPT - WOOD SHOP	24
25	Spare	20	1	--	0.00	0.18			12	1	20	RECEPT - WOOD SHOP	26
27	Spare	20	1	--			0.00	0.18	12	1	20	RECEPT - WOOD SHOP	28
29	Spare	20	1	--	0.00	0.00			--	1	20	Spare	30
			Connected Load:		6.06 kVA		6.24 kVA						
			Connected Amps:		51 A		52 A						
			Total Load:		12 kVA								
			Demand load:		12 kVA								

PANELBOARD NOTES ( )

1. PROVIDE LOCKING MECHANISM (LOCK-ON FOR CRITICAL LOAD)
2. PROVIDE LOCKING MECHANISM (LOCK-OFF FOR MAINTENANCE)
3. PROVIDE GFCI BREAKER (5mA) FOR PERSONNEL PROTECTION
4. PROVIDE GFEP BREAKER (30mA) FOR EQUIPMENT PROTECTION
5. CONDUCTOR SIZE HAS BEEN INCREASED FOR VOLTAGE DROP
6. TERMINATE GROUND ON ISOLATED GROUND BUS
7. PROVIDE SHUNT TRIP BREAKER
8. REFER TO RISER DIAGRAM FOR WIRE SIZES
9. LARGEST OF HEATING OR COOLING LOAD IS SHOWN IN ACCORDANCE WITH NEC 220.60
10. EXISTING LOAD TO REMAIN
11. EXISTING CIRCUIT BREAKER TO REMAIN. VERIFY CONDITION OF CIRCUIT BREAKER TO ENSURE IT IS OPERATIONAL AND MEETS ALL UL RATINGS
12. EXACT FAULT CURRENT AVAILABLE AT UTILITY TRANSFORMER NOT AVAILABLE AT TIME OF DESIGN. ALL SERVICE EQUIPMENT SHALL BE LABELED WITH THE MAXIMUM AVAILABLE FAULT CURRENT IN ACCORDANCE WITH NEC 110.24.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	VOLTS	VA	LAMP	COLOR TEMP	LUMENS	MOUNTING	NOTES
A1	RECESSED 2X4 PANEL	RAB	COORD WITH OWNER FOR EXACT TYPE	120 V	50 VA	LED	4000 K	3500 lm	RECESSED GRID	1,2
A2	RECESSED 2X4 PANEL	RAB	COORD WITH OWNER FOR EXACT TYPE	120 V	50 VA	LED	4000 K	4000 lm	RECESSED GRID	1,2
E1	EMERGENCY FIXTURE	SURE LITES	AP2SQLED30	120 V	2 VA	INTEGRAL			SURFACE	1,2,4
EX1	COMBINATION EXIT/EMERGENCY FIXTURE	SURE LITES	APC7RG	120 V	2 VA	INTEGRAL			SURFACE	1,2,4

LIGHTING FIXTURE SCHEDULE NOTES:

1. ALL FIXTURES TO BE PROVIDED WITH 3500K CCT UNLESS NOTED OTHERWISE ON PLANS
2. FIXTURES SHALL BE FURNISHED EXACTLY AS SPECIFIED ON SCHEDULE. SUBSTITUTIONS FOR SPECIFIED FIXTURE(S) SHALL MEET THE BASIC REQUIREMENTS AND BE EQUIVALENT TO THE FIXTURES SCHEDULED ABOVE.
3. COORDINATE FINAL MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO INSTALLATION
4. PROVIDE EMERGENCY BATTERY PACK ON FIXTURES DESIGNATED ON PLANS AS EMERGENCY
5. PROVIDE FIXTURE LISTED AND LABELED FOR DAMP LOCATIONS
6. PROVIDE FIXTURE LISTED AND LABELED FOR WET LOCATIONS

SAFETY SWITCH SCHEDULE

TYPE	LOAD SERVED	MANUFACTURER	AMPS	VOLTS	POLES	ENCLOSURE	FUSES	NOTE(S)
S1	WATER HEATER	SQUARE D	30A	240 V	2	NEMA 1	NOT FUSED	HEAVY-DUTY SWITCH

ELECTRICAL RISER DIAGRAM NOTES

1. VERIFY WITH UTILITY COMPANY PRIOR TO BID AND INCLUDE ALL DIFFERENTIAL COSTS, CHANGES, FEES, CONNECTORS, ETC. WHICH MAY BE REQUIRED FOR CHANGES TO ELECTRICAL SERVICE AND FOR TEMPORARY POWER DURING CONSTRUCTION.
2. PANELBOARDS: LOCATE IN EXCLUSIVELY DEDICATED SPACES, IN ACCORDANCE WITH NEC 110.26(F). HORIZONTAL WALL SPACE OCCUPIED BY ELECTRICAL EQUIPMENT SHALL BE KEPT TO AN ABSOLUTE MINIMUM (2" MAXIMUM BETWEEN PANELS).
3. DO NOT USE RISER DIAGRAM TO LOCATE EQUIPMENT. REFER TO POWER PLANS FOR LOCATIONS.
4. RISER IS DIAGRAMMATIC, DEPICTING ELECTRICAL RELATIONSHIPS AND IS NOT INTENDED TO COMPLETELY SHOW ALL REQUIRED DEVICES AND ACCESSORIES.
5. PROVIDE A TYPED CIRCUIT DIRECTORY IN EACH NEW PANELBOARD AND EACH PANELBOARD AFFECTED BY CHANGES.
6. PROVIDE PLASTIC NAMEPLATE WITH 3/4" MINIMUM, CONTRASTING COLOR ENGRAVED LETTERS IF NOT EXISTING FOR EACH PANELBOARD. THE NAMEPLATE SHALL BE BOLTED OR POP-RIVETED TO EQUIPMENT.
7. PROVIDE LAMINATED PLASTIC LABEL WITH 1/2" MINIMUM, CONTRASTING COLOR ENGRAVED LETTERS IF NOT EXISTING FOR EACH PANELBOARD, STATING:

   "FEEDER POWER SUPPLY FOR PANEL
   [NAME] ORIGINATES AT PANEL [NAME]."

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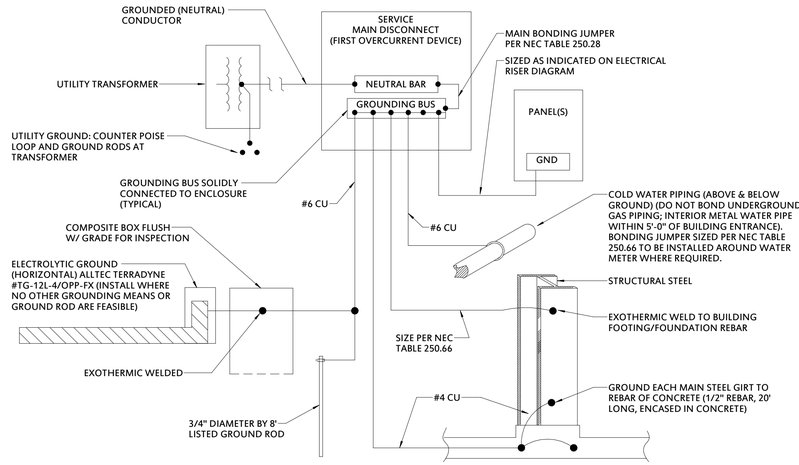
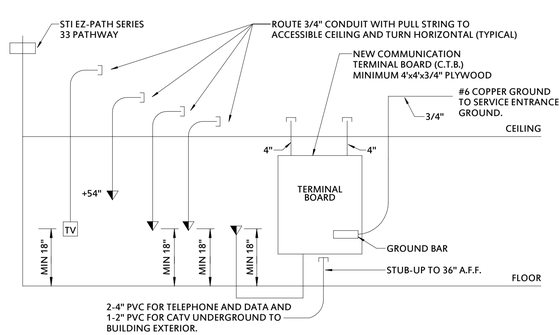


NOTE: BOND ALL STRUCTURAL STEEL AND INTERIOR METALLIC PIPING, INCLUDING BUT NOT LIMITED TO GAS PIPING AND FIRE SPRINKLER PIPING, PER NEC 250.104.
NOTE: ALL CONNECTIONS SHOWN MAY NOT BE UTILIZED.

3 ELECTRICAL GROUNDING DIAGRAM

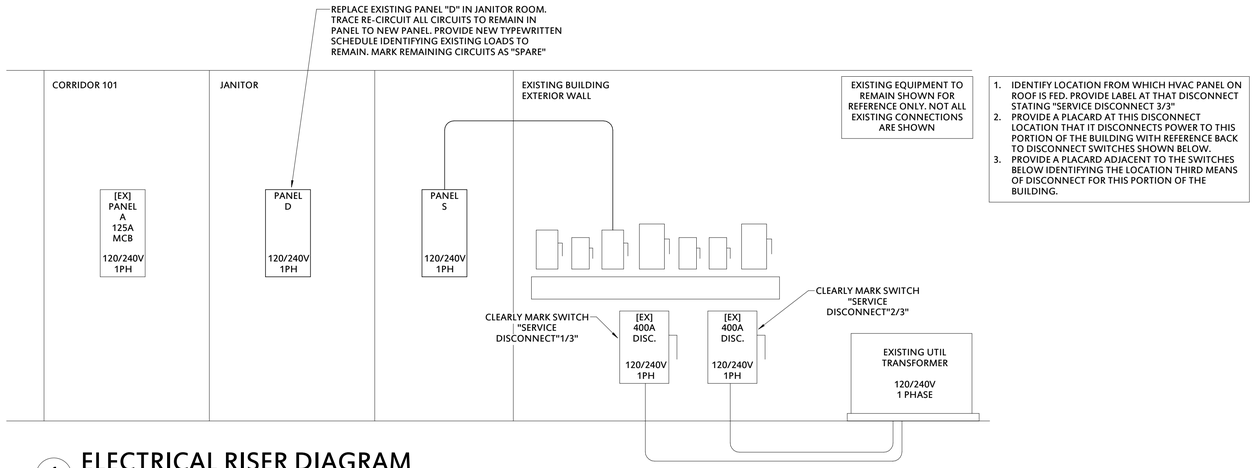
N.T.S.



*NOTE: ALL CONNECTIONS SHOWN MAY NOT BE UTILIZED.

2 COMMUNICATION RISER DETAIL

N.T.S.



1. IDENTIFY LOCATION FROM WHICH HVAC PANEL ON ROOF IS FED. PROVIDE LABEL AT THAT DISCONNECT STATING "SERVICE DISCONNECT 3/3"
2. PROVIDE A PLACARD AT THIS DISCONNECT LOCATION THAT IT DISCONNECTS POWER TO THIS PORTION OF THE BUILDING WITH REFERENCE BACK TO DISCONNECT SWITCHES SHOWN BELOW.
3. PROVIDE A PLACARD ADJACENT TO THE SWITCHES BELOW IDENTIFYING THE LOCATION THIRD MEANS OF DISCONNECT FOR THIS PORTION OF THE BUILDING.

1 ELECTRICAL RISER DIAGRAM

N.T.S.

Project Title

BA Academy Interior Renovation

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ELECTRICAL DETAILS AND SCHEDULES

Drawn	JCK	Project Number	2416
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GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE INTERNATIONAL MECHANICAL CODE AND NFPA 90A TO MEET CITY AND STATE REQUIREMENTS.
2. EXISTING SYSTEMS AND INFORMATION SHOWN ON THESE PLANS WERE DEVELOPED USING EXISTING BUILDING DRAWINGS. CONTRACTORS SHALL VERIFY AT SITE ALL EXISTING SYSTEMS. REMOVE ALL PORTIONS OF DUCT AND PIPING SYSTEMS BEING REMOVED OR ABANDONED. TERMINATE EXISTING SYSTEMS ABOVE CEILING AND BELOW FLOOR SLABS IN A MANNER THAT WILL NOT CONFLICT WITH NEW WORK. CLOSELY COORDINATE NEW WORK WITH EXISTING SYSTEMS. PROVIDE OFFSETS IN EXISTING AND NEW SYSTEMS AS REQUIRED TO AVOID CONFLICTS.
3. COORDINATE WORK CLOSELY WITH CONTROL CONTRACTOR. PROVIDE ALL NECESSARY DUCT, PIPE, TAPS, TEES, WELLS, CONTROL DAMPERS, AIR MEASURING STATIONS, AND OTHER ACCESSORIES REQUIRED BY CONTROL SYSTEM.
4. WHERE CONFLICTS OCCUR BETWEEN PLANS AND SPECIFICATIONS, VERIFY WITH ARCHITECT/ENGINEER FOR CLARIFICATIONS.
5. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRIC RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTINGS, OR COMPONENT. CONTRACTOR SHALL NOT SCALE DRAWINGS. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, VICE-VERSA, SHALL SUBMIT A REQUEST FOR INFORMATION (RFI) IF INFORMATION CONFLICTS. DRAWINGS SPECIFIC TO DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF THE WORK REQUIRED BY CONTRACT DOCUMENTS. REFER TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND OTHER DRAWINGS FOR COMPLETE INFORMATION.
6. EXCEPT WHERE MODIFIED BY SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS OR BOTH, CARRIES WITH IT THE INSTRUCTIONS TO FURNISH AND INSTALL THE ITEMS, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED AS PART OF THE INDICATED OR DESCRIPTION.
7. THE CONTRACTOR SHALL VISIT SITE AND VERIFY CONDITIONS PRIOR TO BIDDING.
8. REFER TO ARCHITECTURAL PLANS FOR:
   - REFLECTED CEILING PLAN FOR EXACT LOCATION OF AIR DEVICES AND CEILING TYPES
   - EXACT LOCATIONS AND MOUNTING HEIGHTS OF EXTERIOR LOUVERS.
   - FIRE RATED WALLS AND PARTITIONS. PROVIDE FIRE DAMPERS IN DUCT PENETRATIONS OF ALL FIRE RATED WALLS AND PARTITIONS AS NECESSARY TO MEET CITY AND STATE REQUIREMENTS.
   - ALL WALL AND ROOF PENETRATIONS AND EQUIPMENT MOUNTING DETAILS.
9. ALL DUCT DIMENSIONS REPRESENT INSIDE NET FREE AREA. INCREASE DUCT DIMENSIONS AS REQUIRED WHERE INTERNAL LINER IS SPECIFIED.
10. ALL DUCTWORK SHALL CONSTRUCTED FROM GALVANIZED STEEL IN CONFORMANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS"' LATEST EDITION.
11. U.L. LISTED FLEXIBLE DUCT RUN-OUTS MAY BE USED, BUT SHALL NOT EXCEED 6'-0 IN LENGTH. ALL FLEXIBLE DUCT TO BE PROPERLY SUPPORTED WITH NO KINKS OR HARD BENDS. ELBOWS TO HAVE AN R/D NOT LESS THAN 1.0.
12. DUCT FITTINGS:
   - SUPPLY TAKE-OFFS TO CEILING SUPPLY DIFFUSERS TO BE CONICAL TAP.
   - ALL DUCT RUN-OUTS TO HAVE LOCKING QUADRANT VOLUME DAMPERS
   - ALL 90° ROUND ELBOWS TO HAVE R/D=1.5 (UNLESS OTHERWISE NOTED.)
   - ALL 90° RECTANGULAR ELBOWS TO HAVE TURNING VANES (UNLESS OTHERWISE NOTED.)
   - PROVIDE HARD ELBOW WHEN TRANSITIONING FROM RIGID TO FLEXIBLE DUCT WHEN CONNECTING TO AIR DEVICES. REFER TO DETAIL.
13. ALL SUPPLY, RETURN, AND OUTSIDE AIR DUCTS SHALL BE EXTERNALLY WRAPPED WITH 2" FIBERGLASS WITH FOIL-SCRIM-KRAFT VAPOR BARRIER WERE LOCATED IN CONCEALED LOCATIONS (UNLESS OTHERWISE NOTED).
14. COMPLETELY INSULATE THE TOPS OF ALL CEILING DIFFUSERS.
15. WHERE MANUAL DAMPERS ARE INSULATED IN EXTERNALLY INSULATED DUCTWORK, PROVIDE 2" STAND-OFF BRACKET WITH QUADRANT INDICATOR TO PREVENT COMPRESSION OF INSULATION BY DAMPER OPERATOR HANDLE.
16. DUCTWORK TO BE COORDINATED WITH STRUCTURAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION, COMPONENTS AND SYSTEMS. ALL DUCTWORK THAT HAS TO BE OFFSET DUE TO AN OBSTRUCTION SHALL BE SLOPED WITH (2) 45° ELBOWS UNLESS OTHERWISE NOTED.
17. MECHANICAL CONTRACTOR TO CHECK TIGHT CLEARANCES AT EQUIPMENT, LIGHTS, AND STRUCTURAL MEMBERS. ADJUST DUCT SIZE OR REROUTE DUCT TO CLEAR OBSTRUCTIONS WITH MINIMUM NUMBER OF ELBOWS AND ELEVATION CHANGES.
18. ALL DIFFUSER AND AIR DEVICE LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL AND ELECTRICAL ITEMS PRIOR TO FABRICATION.
19. PROVIDE ACCESS PANELS IN CEILINGS OTHER THAN LAY-IN TYPE WHERE NECESSARY:
   - PROVIDE 24"x24" ACCESS PANEL AT BALANCING DAMPERS, FIRE DAMPERS, CONTROLS, VALVES, TRAPS, CLEAN OUTS, ETC.
   - CLOSELY COORDINATE LOCATIONS AND SIZE OF ACCESS PANELS WITH INSTALLED EQUIPMENT TO ACHIEVE GREATEST ACCESSIBILITY FOR MAINTENANCE PURPOSES.
20. CLOSELY COORDINATE LOCATIONS OF INSTALLED EQUIPMENT TO ACHIEVE THE GREATEST ACCESSIBILITY.
21. MAINTAIN 10'-0 MINIMUM CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND ALL EXHAUST FANS, FLUES, PLUMBING VENTS, ETC. WHERE HORIZONTAL DISTANCE CANNOT BE PROVIDED, EXTEND FLUE VENTS MINIMUM 2'-0" ABOVE OUTSIDE AIR INTAKES.
22. PROVIDE FLEXIBLE CONNECTIONS AT INLETS AND OUTLETS OF EXHAUST FANS.
23. MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
24. ALL ELECTRICAL WORK TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED.
25. ALL MECHANICAL EQUIPMENT SHALL BE LABELED WITH 1" HIGH BLACK BAKELITE LABEL SECURED TO THE EQUIPMENT WITH 5/8" HIGH WHITE LETTERS. LABEL SHALL CORRESPOND TO THE IDENTIFICATION ON THE PLANS.
26. THERMOSTATS TO BE MOUNTED 4'-0" ABOVE FINISHED FLOOR, MAX.
27. THERMOSTAT WIRING SHALL BE PERFORMED BY MECHANICAL CONTRACTOR. ALL TERMINATION'S SHALL BE PROPERLY FINISHED
28. RECORD DRAWINGS: INDICATE ACTUAL ROUTING, FITTING DETAILS, REINFORCEMENT SUPPORT, AND INSTALLED ACCESSORIES AND DEVICES.
29. FOR ALL MECHANICAL EQUIPMENT, TRANSITION DISTRIBUTION DUCTWORK TO THE ACTUAL EQUIPMENT CONNECTION OPENINGS. VERIFY WITH ACTUAL APPROVED EQUIPMENT SUBMITTAL DRAWINGS.
30. PROVIDE FIRE DAMPERS IN DUCTWORK PASSING THRU ALL FIRE RATED ASSEMBLIES AS REQUIRED PER AUTHORITY HAVING JURISDICTION. PROVIDE SMOKE DAMPERS IN DUCTWORK PASSING THROUGH SMOKE BARRIERS AS REQUIRED PER AUTHORITY HAVING JURISDICTION. FIRE AND SMOKE DAMPERS SHALL BE OF EQUAL RATING AS THE WALL THEY PROTECT.
31. ALL FIRE AND SMOKE DAMPERS TO BE ACCESSIBLE, INSTALL ACCESS DOORS IN DUCTS, WALLS, CEILINGS, AND SOFFITS WHERE REQUIRED.
32. SLEEVE AND SEAL ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RATED AND NON-RATED SLABS AND PARTITIONS.
33. ALL AIR DEVICES IN RATED CEILINGS SHALL HAVE RADIATION DAMPERS AND THERMAL BLANKETS.
34. CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO:
   - DUCT SIZES AND ROUTING
   - EQUIPMENT CONNECTIONS AND LOCATIONS

   PROVIDE NECESSARY MODIFICATIONS TO NEW AND EXISTING SYSTEMS TO FACILITATE THE INSTALLATION OF NEW SYSTEMS AND INTERFACE OF EXISTING AND NEW SYSTEMS COMPLETE.
35. COORDINATE AND SCHEDULE ALL CONNECTIONS TO EXISTING SYSTEMS AND SYSTEM SHUT-DOWNS WITH MAINTENANCE PERSONNEL.
36. MAINTAIN EXISTING BUILDING SYSTEMS WITH PHASED DEMOLITION AND INSTALLATION OF NEW WORK, PROVIDING TEMPORARY SERVICES AS REQUIRED.
37. REMOVE AND RELOCATE SMALL CONDUIT, CABLE, PIPE AND DUCT, AND CEILING HANGERS ETC. AS NECESSARY TO ACHIEVE A COMPLETE INSTALLED MECHANICAL SYSTEM AS SHOWN ON DRAWINGS.
38. PATCH ALL WALLS, FLOORS, ROOFS, AND CEILINGS TO MATCH EXISTING OR NEW (IF APPLIED) FOR ALL OPENINGS CREATED BY DEMOLITION WORK OF EQUIPMENT AND HVAC SERVICE PENETRATIONS.
39. REPLACE AND/OR PATCH TO MATCH EXISTING, ANY EXISTING PIPE AND/OR DUCT INSULATION THAT IS TO REMAIN EXISTING AND IS DAMAGED OR REMOVED DURING CONSTRUCTION.

LEGEND

(NOTE: ALL SYMBOLS MAY NOT BE USED)

	24"x24" CEILING SUPPLY DIFFUSER
	24"x24" CEILING RETURN GRILLE
	24"x24" CEILING EXHAUST DIFFUSER
	12"x12" CEILING SUPPLY DIFFUSER
	12"x12" CEILING RETURN GRILLE
	12"x12" CEILING EXHAUST DIFFUSER
	SIDEWALL GRILLE
	SIDEWALL TRANSFER GRILLE
	DOOR TRANSFER GRILLE
	SLOT DIFFUSER
	ROUND DIFFUSER
	EXISTING DUCTWORK OR EQUIPMENT
	EXISTING DUCTWORK OR EQUIPMENT TO BE REMOVED
	RECTANGULAR DUCT W/TURNING VANES
	RECTANGULAR DUCT TO ROUND DUCT TRANSITION
	RECTANGULAR SUPPLY DUCT, ELBOW UP
	RECTANGULAR SUPPLY DUCT, ELBOW DOWN
	RECTANGULAR RETURN OR EXHAUST DUCT, ELBOW UP
	RECTANGULAR RETURN OR EXHAUST DUCT, ELBOW DOWN
	ROUND OR OVAL DUCT, ELBOW UP
	ROUND OR OVAL DUCT, ELBOW DOWN
DN.	DUCTWORK ROUTED DOWN AND UNDER
UP	DUCTWORK ROUTED UP AND OVER
	SPLITTER DAMPER W/TURNING VANES
	VOLUME DAMPER W/LOCKING QUADRANT
M	OPPOSED BLADE DAMPER
M	MOTORIZED, OPPOSED BLADE DAMPER
F	FIRE DAMPER
S	SMOKE DAMPER
SD	DUCT MOUNTED SMOKE DETECTOR
T	THERMOSTAT MOUNTED 46" A.F.F.
TS	TEMPERATURE SENSOR MOUNTED 46" A.F.F.
T	REMOTE THERMOSTAT MOUNTED 46" A.F.F.
H	HUMIDISTAT MOUNTED 46" A.F.F.
C	CARBON DIOXIDE SENSOR MOUNTED 46" A.F.F.
CO	CARBON MONOXIDE SENSOR MOUNTED 46" A.F.F.
P	DUCT PRESSURE SENSOR
$	WALL SWITCH MOUNTED 46" A.F.F.
	CONNECT TO EXISTING AT THIS POINT
	POINT OF DEMOLITION
X	KEY NOTE
X	DEMOLITION KEY NOTE
X	REVISION SYMBOL
D-X / CFM	DIFFUSER DESIGNATION = DIFFUSER ID PER SCHEDULE / DIFFUSER CFM
	(D=SUPPLY, R=RETURN, E=EXHAUST, T=TRANSFER)

	EXISTING PIPING OR EQUIPMENT
	EXISTING PIPING OR EQUIPMENT TO BE REMOVED
R	REFRIGERANT LINE SET
CD	CONDENSATE DRAIN LINE
CHS	CHILLED/HOT WATER SUPPLY
CHR	CHILLED/HOT WATER RETURN
CS	CONDENSER WATER SUPPLY
CR	CONDENSER WATER RETURN
CWS	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
HPWS	HEAT PUMP WATER SUPPLY
HPWR	HEAT PUMP WATER RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
ST	STEAM
SC	STEAM CONDENSATE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	GATE VALVE
	GATE VALVE (MANUAL)
	GLOBE VALVE
	MOTORIZED (SOLENOID) VALVE
	OS&Y GLOBE
	RELIEF VALVE
	STRAINER
	TEMPERATURE CONTROL VALVE
	UNION
	FLOW DIRECTION
	THERMAL EXPANSION LOOP
	PIPE ANCHOR
	CLEANOUT

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Revision Date	Revision

Project Title

BA Academy Interior Renovation

412 S 9th St
Broken Arrow, OK 74012

Sheet Title

HVAC LEGEND AND GENERAL NOTES

Drawn	RHG	Project Number	2416
Checked	RHG		

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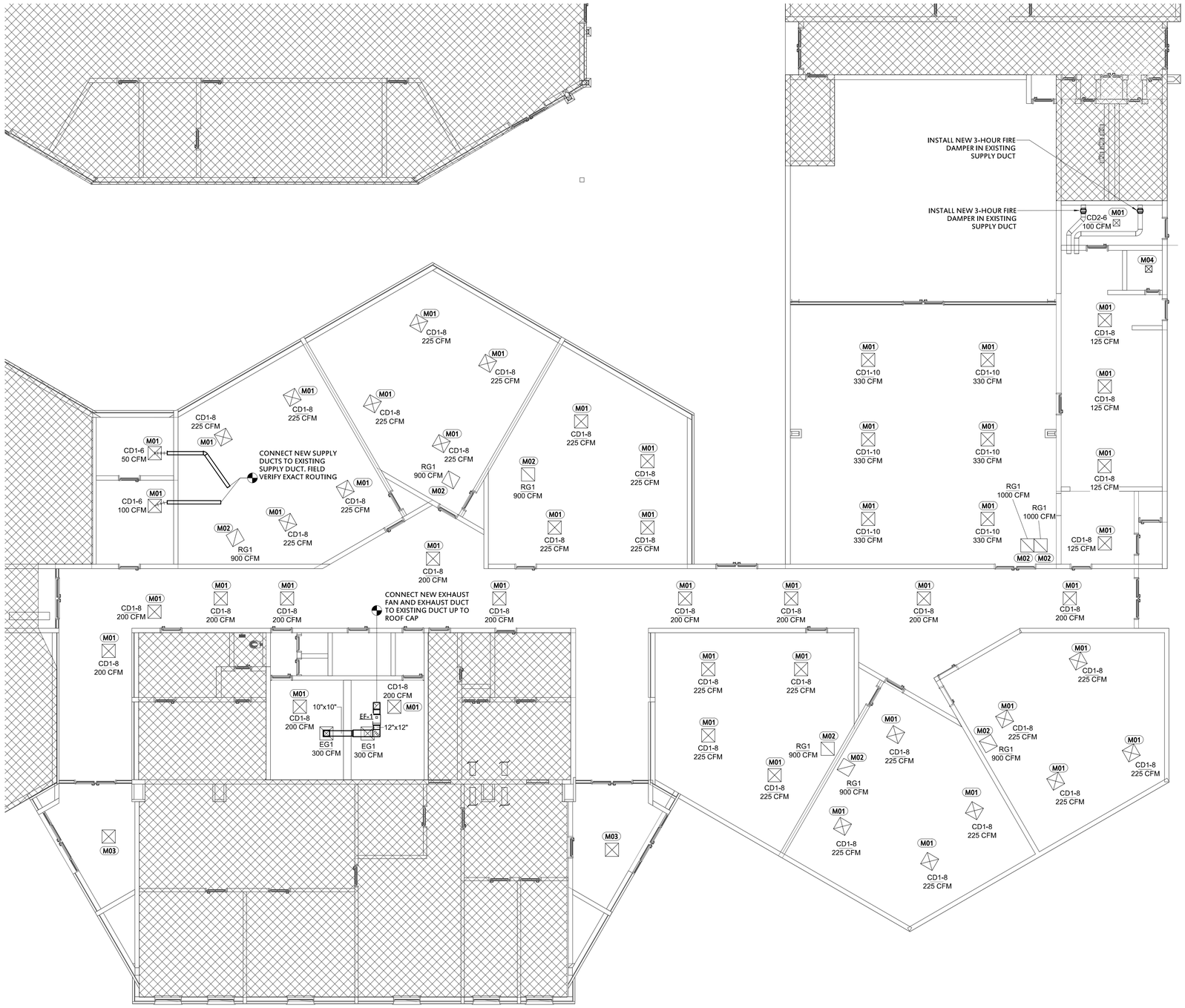

1 HVAC PLAN

1/8" = 1'-0"

LEGEND

1. REFER TO SHEET M-001 FOR LEGEND.

GENERAL NOTES

1. REFER TO SHEET M-001 FOR GENERAL NOTES.

KEYNOTE LEGEND	
KEY VALUE	**KEYNOTE TEXT**
M01	INSTALL NEW SUPPLY AIR DIFFUSER IN NEW CEILING GRID. CONNECT NEW DIFFUSER TO EXISTING SUPPLY AIR DUCTWORK WITH NEW FLEX DUCT.
M02	INSTALL NEW RETURN AIR GRILLE IN NEW CEILING GRID. MODIFY EXISTING RETURN AIR DUCTWORK FOR NEW RETURN GRILLE LOCATION. CONNECT NEW RETURN GRILLE TO EXISTING DUCTWORK.
M03	INSTALL EXITING AIR DEVICE IN NEW CEILING GRID.
M04	EXISTING AIR DEVICE, NO WORK TO BE DONE.

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HVAC PLAN

Drawn	RHG	Project Number	2416
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Sheet Number: **M101**

AIR DEVICE SCHEDULE

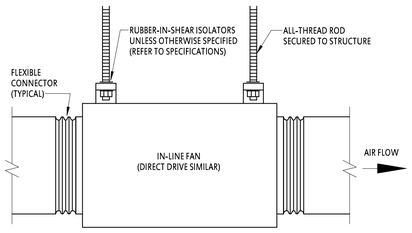
MARK	SERVICE	FACE TYPE	MANUFACTURER	MODEL	CONSTRUCTION	PANEL SIZE	NECK SIZE	FINISH	MOUNTING	NOTES
CD1	SUPPLY	CEILING	PRICE	ASCD	ALUMINUM	24" X 24"	--	WHITE	LAY-IN	1, 2, 5, 6, 11
CD2	SUPPLY	CEILING	PRICE	ASCD	ALUMINUM	12" X 12"	--	WHITE	LAY-IN	1, 2, 5, 6, 11
RG1	RETURN	LOUVERED	PRICE	635DAL	ALUMINUM	24" X 24"	22" X 22"	WHITE	LAY-IN	2, 3, 7, 11
EG1	EXHAUST	LOUVERED	PRICE	635DAL	ALUMINUM	24" X 24"	10" X 10"	WHITE	LAY-IN	2, 3, 7, 11

NOTES:
1. REFER TO PLANS FOR NECK SIZE.
2. REFER TO REFLECTED CEILING PLAN FOR EXACT LOCATION.
3. PROVIDE WITH AG-75 OPPOSED BLADE DAMPER, OPERABLE FROM FACE, AND EQUALIZING GRID.
4. PROVIDE WITH VOLUME CONTROL DAMPER TO ACHIEVE NOTED CFM.
5. PROVIDE FRAME TYPE FOR LAY-IN CEILING.
6. PROVIDE AND INSTALL WITH FACTORY MATCHED FOIL BACK INSULATION BLANKET.
7. PROVIDE INSULATED PLENUM BOX, PAINT INTERIOR BLACK.
8. REFER TO ARCHITECTURAL FOR COLOR SELECTION.
9. LOUVER CONSTRUCTION SHALL BE EXTRUDED ALUMINUM, DRAINABLE BLADE, PROVIDE LOUVER WITH MOUNTING FRAME SUITABLE FOR INTENDED INSTALLATION. LOUVER FINISH SHALL BE KYNAR 500 AND MATCH EXTERIOR OF BUILDING, PROVIDE WITH BIRD SCREEN.
10. MOUNT BOTTOM OF LOUVER AT 10' - 0" AFF.
11. ACCEPTABLE MANUFACTURERS: PRICE, TUTTLE & BAILEY, TITUS

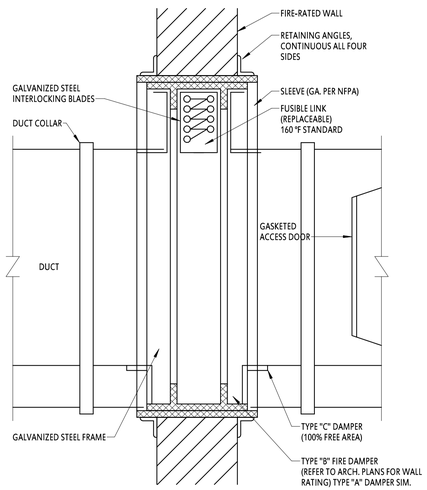
EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	DRIVE	FAN DATA			MOTOR DATA			SONE LEVEL	TOTAL UNIT WEIGHT (LBS)	NOTES
					CFM	ESP	RPM	HP	VOLTS	Ø			
EF-1	PENNBARRY	Z12S-TDA	CEILING	DIRECT	600	0.5	1050	260 W	120	1	5.7	20	1, 2, 3, 4, 5, 6

NOTES:
1. PROVIDE WITH DISCONNECT SWITCH.
2. PROVIDE WITH ISOLATOR KIT.
3. PROVIDE WITH BACKDRAFT DAMPER.
4. PROVIDE WITH WALL CAP, COLOR TO MATCH EXTERIOR.
5. PROVIDE WITH PRE-WIRED, FAN SPEED CONTROLLER, MOUNTED IN UNIT.
6. INTERLOCK WITH LIGHT SWITCH.

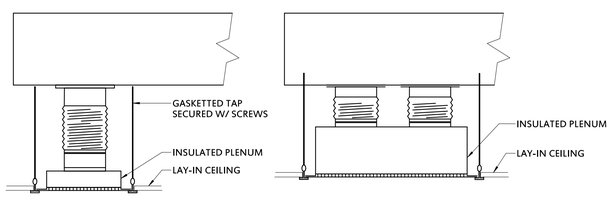


4 INLINE CENTRIFUGAL EXHAUST FAN
N.T.S.

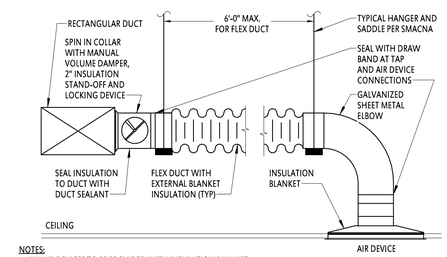


NOTES:
1. USE TYPE "A" & "B" DAMPERS FOR LOW PRESSURE AND LOW VELOCITY DUCT CLASS ONLY.
TYPE "B" DAMPERS - DUCT SIZES 12" HIGH AND SMALLER.
TYPE "A" DAMPERS - DUCT SIZES 13" HIGH AND LARGER.
2. USE TYPE "C" DAMPERS FOR MEDIUM AND HIGH PRESSURE AND VELOCITY DUCT CLASS. DUCTS UPSTREAM OF VAV BOXES, FPMXB, ETC. ARE CONSIDERED MEDIUM OR HIGH PRESSURE AND VELOCITY DUCT CLASS.

3 FIRE DAMPER
N.T.S.



2 CEILING RETURN/EXHAUST DETAIL
N.T.S.



NOTES:
1. ALL AIR DEVICES TO BE PROVIDED WITH INSULATION BLANKET.
2. TYPICAL CONNECTIONS BETWEEN DUCT AND CEILING OR SLOT DIFFUSERS AS SHOWN ON PLANS OR INDICATED ON SCHEDULE.
3. PROVIDE RIGID METAL ELL FOR ALL 90 DEGREE TURNS.
4. ALL SUPPLY AIR DUCTS SHALL BE EXTERNALLY INSULATED WITH 2" THICK FIBERGLASS BLANKET.
5. FLEX DUCT SHALL NOT EXCEED 6'-0" IN LENGTH.

1 DUCTWORK INSTALLATION
N.T.S.

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Revision Date	Revision

Project Title
BA Academy Interior Renovation

412 S 9th St
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Sheet Title
HVAC SCHEDULES

Drawn RHG
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Project Number 2416
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Richard H. Godfrey III
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7-26-2024

Issue Date 07/26/2024
Sheet Number **M601**

1 HVAC PLAN - DEMO
1/8" = 1'-0"

LEGEND

1. REFER TO SHEET M-001 FOR LEGEND.

GENERAL NOTES

1. REFER TO SHEET M-001 FOR GENERAL NOTES.

KEYNOTE LEGEND	
KEY VALUE	**KEYNOTE TEXT**
MD01	DEMOLISH AND REMOVE EXISTING SUPPLY AIR DIFFUSER AND FLEX DUCT. EXISTING METAL DUCTWORK TO REMAIN FOR INSTALLATION OF NEW SUPPLY AIR DIFFUSER AND NEW FLEX DUCT.
MD02	DEMOLISH AND REMOVE EXISTING RETURN AIR GRILLE. EXISTING DUCTWORK TO REMAIN FOR INSTALLATION OF NEW RETURN AIR GRILLE.
MD03	DEMOLISH AND REMOVE EXISTING EXHAUST FAN AND DUCTWORK TO VERTICAL DUCT THROUGH ROOF. TEMPORARILY CAP VERTICAL EXHAUST DUCT TO ROOF CAP FOR NEW EXHAUST FAN AND DUCT.
MD04	DEMOLISH AND REMOVE EXISTING SUPPLY AIR DIFFUSER AND ASSOCIATED DUCTWORK BACK TO MAIN TRUNK. CAP AT TRUNK DUCT.
MD05	DEMOLISH EXISTING SUPPLY DUCT AS NECESSARY FOR NEW FIRE DAMPER INSTALLATION AT EXISTING WALL PENETRATION.
MD06	EXISTING AIR DEVICE, NO WORK TO BE DONE.
MD07	DEMOLISH DUCTWORK AS INDICATED, CAP DUCT IN HALLWAY AS INDICATED TO AVOID PENETRATING NEW FIRE WALL.
MD08	DEMOLISH DUCTWORK AS INDICATED, CAP DUCT ON BOTH SIDES OF WALL AS INDICATED TO AVOID PENETRATING NEW FIRE WALL.

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Sheet Title
HVAC DEMOLITION PLAN

Drawn	RHG	Project Number	2416
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MD101

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GENERAL NOTES

1. ALL PLUMBING AND NATURAL GAS SYSTEMS SHALL BE INSTALLED AS PER THE LATEST ADOPTED EDITIONS OF THE INTERNATIONAL PLUMBING CODE, INTERNATIONAL FUEL GAS CODE, THE LATEST EDITION OF NFPA, AND ALL STATE AND LOCAL CODES AND ORDINANCES GOVERNED BY AUTHORITY HAVING JURISDICTION (AHJ), AND DIVISION 22 SPECIFICATIONS.
2. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT, OR GEOMETRIC RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING, OR COMPONENT. CONTRACTOR SHALL NOT SCALE DRAWINGS. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS, OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE-VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH. THE CONTRACTOR SHALL SUBMIT A REQUEST FOR INFORMATION (RFI) IF INFORMATION CONFLICTS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY CONTRACT DOCUMENTS. REFER TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND OTHER DRAWINGS FOR COMPLETE INFORMATION.
3. BY NECESSITY, THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS, THE SELECTION OF WHICH HAS IMPACTED THE DESIGNS OF OTHER TRADES (HVAC, ELECTRICAL, STRUCTURAL, ETC.). IF ALTERNATE MANUFACTURERS, FUEL SOURCES, SIZES, OR MODEL NUMBERS ARE SUBMITTED OR BID, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. NO EXTRAS WILL BE ALLOWED FOR CHANGES REQUIRED TO OTHER TRADES IF ALTERNATE EQUIPMENT IS BID OR INSTALLED AT THE CONTRACTOR'S OPTION.
4. REFER TO SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS OF PLUMBING FIXTURES AND EQUIPMENT, AND PROPER APPLICATIONS OF THE SAME.
5. EXCEPT WHERE MODIFIED BY SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS OR BOTH, CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM, REGARDLESS OF WHETHER OR NOT THE INSTRUCTION IS IMPLICITLY STATED AS PART OF THE INDICATION OR DESCRIPTION.
6. ALL PERMITS, FEES AND UTILITY CHARGES REQUIRED FOR THE WORK SHALL BE SECURED AND PAID BY THE CONTRACTOR AND SHALL BE INCLUDED IN THE BASE BID PRICE IN THE CONTRACT.
7. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY CONDITIONS PRIOR TO BIDDING. THE SUBMISSION OF A PROPOSAL WILL BE CONSIDERED EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIMSELF WITH THE DRAWINGS, THE BUILDING SITE AND OTHER INFORMATION PRESENTED FOR THE CONSTRUCTION OF THIS PROJECT. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND LABOR BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED, IF THEY COULD HAVE BEEN FORESEEN HAD A COMPLETE AND THOROUGH EXAMINATION BEEN MADE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THE WORK OF OTHER TRADES, i.e., ARCHITECTURAL, HVAC, ELECTRICAL, STRUCTURAL, FIRE PROTECTION AND CIVIL, PRIOR TO CONSTRUCTION.
9. THE CONTRACTOR SHALL COORDINATE UTILITY LOCATIONS, SIZES AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION, i.e., SANITARY SEWER, DOMESTIC WATER AND NATURAL GAS. ALL SERVICES SHALL TERMINATE FIVE (5) FEET OUTSIDE THE BUILDING, EXCEPT WHERE SHOWN OTHERWISE. SEE SITE UTILITY DRAWINGS FOR CONTINUATION OF ALL SERVICES.
10. THE CONTRACTOR SHALL VERIFY WITH THE LOCAL WATER PROVIDER AS TO THE METER AND VALVING ARRANGEMENTS FOR THE DOMESTIC WATER SERVICE LINE WHICH ENTERS THE BUILDING. SHOULD A BACKFLOW PREVENTER ASSEMBLY (RPZ) BE REQUIRED BY APPLICABLE CODE, THE CONTRACTOR SHALL FURNISH AND INSTALL THE UNIT AS PER LOCAL AND STATE REQUIREMENTS. THE BACKFLOW ASSEMBLY SHALL BE EQUAL TO A "WATTS" MODEL #LF009 OR ENGINEER APPROVED EQUAL MEETING ASSE STANDARDS 1013, 1015 AND 1020.
11. WHERE WATER PRESSURES EXCEED 80 PSI, PROVIDE WATER PRESSURE REDUCING VALVE (PRV) WITH UPSTREAM STRAINER IN WATER SUPPLY LINE, SETTING AT 60 PSI. SEE CODE AND MANUFACTURER'S INFORMATION FOR ACCEPTABLE PRESSURE REQUIREMENTS. THE PRESSURE REDUCING ASSEMBLY SHALL BE EQUAL TO A "WATTS" SERIES U5 OR ENGINEER APPROVED EQUAL.
12. PROVIDE FULL PORT, 1/4 TURN BALL ISOLATION VALVES AT EACH FIXTURE GROUP OR BATTERY OF FIXTURES IN THE DOMESTIC CW, HW, HWR AND GAS PIPING. VALVES SHALL BE EASILY ACCESSIBLE.

    ISOLATION VALVES SHALL BE LOCATED:
    a. RESTROOM GROUP – BEHIND AN 18"X18" STAINLESS STEEL ACCESS PANEL WITH SCREWDRIVER OPERATED LATCH LOCATED IN THE BOY'S OR MEN'S RESTROOM.
    b. INDIVIDUAL (PRIVATE) RESTROOMS – BEHIND AN 18"X18" STAINLESS STEEL ACCESS PANEL WITH SCREWDRIVER OPERATED LATCH.
    c. INDIVIDUAL FIXTURES – ABOVE THE CEILING WITHIN 12" OF THE WATER RISERS WHERE CEILING IS ACCESSIBLE. ABOVE THE CEILING BEHIND CEILING ACCESS PANEL WITHIN 12" OF THE WATER RISER WHERE CEILING IS NOT ACCESSIBLE.
    d. ISOLATION VALVES ON THE DOMESTIC COLD WATER SHALL BE PROVIDED IN CORRIDORS TO ALLOW ISOLATION OF BUILDING WINGS, SECTIONS, AREAS.
13. PROVIDE STOP VALVES AT ALL PLUMBING FIXTURES ON BOTH COLD AND HOT WATER SUPPLY LINES. VALVES, ESCUTCHEONS, FITTINGS, ETC., SHALL BE CHROME PLATED AND INSTALLED TIGHT TO WALL. WHERE PIPING IS EXPOSED, CHROME PLATED PIPE SHALL BE USED.
14. PROVIDE WATER HAMMER ARRESTORS IN FIXTURE BRANCHES WHERE QUICK-CLOSING VALVES ARE INSTALLED (i.e., FLUSH VALVES, ICE MAKERS, DISHWASHERS, ETC.).
15. HORIZONTAL Y-STRAINERS SHALL BE LOCATED:
    a. ON DOMESTIC WATER MAIN ENTRY INTO THE BUILDING PROVIDE A HORIZONTAL Y-STRAINER DOWNSTREAM OF THE BUILDING ISOLATION VALVE AND UPSTREAM OF THE BACKFLOW PREVENTER.
    b. WHERE INFRARED CONTROLLED LAVATORIES OR HAND SINKS ARE PROVIDED DOWNSTREAM OF THE SUPPLY STOPS EXPOSED UNDER THE FIXTURE.
    c. IN GANG OR PRIVATE (INDIVIDUAL) RESTROOMS DIRECTLY DOWNSTREAM OF THE ISOLATION VALVES BEHIND THE ACCESS PANEL.
16. PROVIDE FITTINGS, TRANSITIONS, COUPLINGS, ADAPTERS, UNIONS AND OTHER ACCESSORIES NEEDED TO COMPLETE CONNECTIONS AND FOR PROPER OPERATIONS OF PLUMBING FIXTURES AND PLUMBING EQUIPMENT.
17. SLOPE 2-1/2" AND SMALLER SANITARY SEWER LINES AT MINIMUM 1/4" FALL PER FT., AND 3" AND LARGER SANITARY SEWER LINES AT MINIMUM 1/8" FALL PER FOOT. SANITARY SEWER AND DOMESTIC WATER SHALL BE A MINIMUM OF TEN (10) FEET APART OR THE DOMESTIC WATER SHALL BE 12" ABOVE THE TOP OF THE SEWER LINE, AT ITS HIGHEST POINT, IF PLACED IN SAME TRENCH.
18. PROVIDE CLEANOUTS IN ALL SEWERS, WHETHER SHOWN OR NOT, AT INTERVALS NOT TO EXCEED 100', AT EACH CHANGE OF DIRECTION GREATER THAN 45 DEGREES, AND AT THE BASE OF ALL VERTICAL RISER STACKS (APPROX. 24" ABOVE FINISHED FLOOR).
19. THE POTABLE WATER SUPPLY SHALL BE PROTECTED AGAINST BACKFLOW AND SIPHONAGE, BOTH NATURALLY AND INDUCED. PROVIDE APPROVED BACKFLOW PREVENTION, OR ANTI-SIPHON DEVICES AT ALL FIXTURES THAT COULD CONTAMINATE THE POTABLE WATER SYSTEM.
20. ALL PIPING PENETRATIONS OF A RATED CEILING MUST BE MADE WITH METAL PIPE OR U.L. LISTED, APPROVED DEVICES. FIRE STOP ALL PIPE PENETRATIONS THROUGH RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS, RATINGS, AND FIRE STOPPING DETAILS.
21. DO NOT ROUTE ANY PIPING OVER ELECTRICAL ROOMS, COMPUTER ROOMS, OR ELECTRICAL PANELS.
22. ALL DOMESTIC WATER AND SPRINKLER PIPING ROUTED IN AREAS SUBJECT TO FREEZING TEMPERATURES SHALL BE ROUTED BELOW INSULATION AND WITHIN THE HEATED ENVELOPE OF THE BUILDING. SEE ARCHITECTURAL DRAWINGS FOR INSULATION PLACEMENT AND DETAILS.
23. UNLESS OTHERWISE INDICATED, DO NOT ROUTE PIPING IN EXTERIOR WALLS. WHEN ROUTED IN EXTERIOR WALLS, CAREFULLY POSITION WATER PIPING ON THE HEATED SIDE (INTERIOR SIDE) OF THE WALL INSULATION.
24. MAINTAIN 15'-0" MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKES, OPERABLE WINDOWS AND FLUES, PLUMBING VENTS, AND GAS REGULATORS.
25. ALL STORM DRAIN, CONDENSATE DRAIN, SEWER AND VENT PIPING SHALL BE RODDED AND CLEANED AT THE END OF CONSTRUCTION. ALL TRAPS SHALL BE CLEANED AND PRIMED AT THE END OF CONSTRUCTION.
26. ALL PIPE DROPS FROM CEILING SPACE TO FLOOR SHALL BE MADE IN FURR OUTS AT COLUMNS, IN WEB OF BEAMS AT COLUMNS, OR IN WALLS. PIPING SHALL BE CONCEALED UNLESS APPROVED OTHERWISE BY ARCHITECT.
27. ABOVE SLAB DOMESTIC WATER PIPING SHALL BE TYPE L COPPER OR TYPE K COPPER.
28. UNDER SLAB DOMESTIC WATER PIPING SHALL BE TYPE "K" SOFT DRAWN COPPER WITHOUT FITTINGS OR JOINTS, OR PEX-A PIPING.. SLEEVE PIPING IN ENTIRETY WITH 4 MIL THICK POLYETHYLENE SLEEVE MATERIAL. HOT WATER SUPPLY AND RETURN PIPING SLEEVE MATERIAL SHALL BE RED. ALL OTHER PIPING SLEEVE MATERIAL SHALL BE BLUE.
29. INSULATE ALL WATER, CONDENSATE, STORM DRAIN PIPING (VERTICAL AND HORIZONTAL) AND ROOF DRAIN BODIES ABOVE FINISHED FLOOR. SEE DIVISION 22 SPECIFICATIONS FOR INSULATION THICKNESS SCHEDULE.
30. INSULATE DOMESTIC COLD WATER AND HOT WATER PIPING INSIDE THE BUILDING WITH 1" FIBERGLASS INSULATION WITH VAPOR BARRIER, OR EQUIVALENT ARMAFLEX TYPE INSULATION. 1/2" INSULATION MAY BE USED FOR BRANCH PIPING IN WALL CAVITIES FOR INDIVIDUAL FIXTURES.
31. INSULATE ALL EXPOSED HOT WATER AND DRAIN PIPING FOR ACCESSIBLE FIXTURES AS PER ANSI A117.1 AND A.D.A. REQUIREMENTS.
32. ALL EXPOSED MATERIALS WITHIN RETURN AIR PLENUMS (EXISTING AND NEW) SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25, AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50, AS DETERMINED IN ACCORDANCE WITH ASTM E84 AND U.L. LISTINGS. IF ANY MATERIALS (EXISTING OR NEW) DO NOT MEET THESE STANDARDS, THE ITEMS SHALL BE ENCLOSED IN A GYPSUM BOARD ENCLOSURE, OR BE REPLACED WITH PLENUM RATED MATERIALS (i.e. CAST IRON), OR BE WRAPPED WITH AN APPROVED FIRE RATING MATERIAL. PLASTIC PIPING (PVC, ABS CPVC) IS NOT APPROVED TO BE INSTALLED WITHIN RETURN AIR PLENUMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTING CONDITIONS (WHETHER SHOWN ON THE PLANS OR NOT) AND INCLUDE THE REPLACEMENT AND/OR WRAPPING OF THESE ITEMS IN THE BID PRICE. COORDINATE RETURN AIR PLENUM LOCATIONS AND ANY NOTED DISCREPANCIES FROM THE PLANS WITH MECHANICAL ENGINEER PRIOR TO BID.
33. INSTALL AN A.G.A. LISTED GAS COCK, DIRT LEG AND UNION IMMEDIATELY UPSTREAM OF EQUIPMENT CONNECTIONS. WHERE REQUIRED, PROVIDE AN A.G.A. LISTED GAS REGULATOR. THE GAS VENT SHALL BE DIRECTED DOWNWARD, OR PIPED TO AVOID CONTAMINATES. GAS REGULATORS SHALL NOT BE INSTALLED IN AIR PLENUMS (SEE HVAC DRAWINGS FOR PLENUM LOCATIONS).
34. GAS VALVES SHALL NOT BE LOCATED IN RETURN AIR PLENUMS. WHERE EXISTING GAS VALVES ARE LOCATED IN RETURN AIR PLENUMS, THESE VALVES SHALL BE RELOCATED.
35. FLOOR DRAINS IN MECHANICAL ROOMS ARE SHOWN FOR GENERAL LOCATION, ONLY. FLOOR DRAINS SHALL BE ACCESSIBLE AND SHALL BE VERIFIED WITH EQUIPMENT LAY-OUT FOR INTERFERENCES. HOLD TOP OF ALL FLOOR DRAINS FLUSH WITH TOP OF FINISHED FLOOR.
36. TRAP PRIMERS SHALL DELIVER POTABLE WATER TO FLOOR DRAIN P-TRAPS. WHERE REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION, PROVIDE INDIRECT CONNECTION BETWEEN AUTOMATIC TRAP PRIMER AND TRAP PRIMER LINE THAT CONNECTS DIRECTLY TO DRAIN BODY OR P-TRAP.
    a. TRAP PRIMERS SERVING FLOOR DRAINS IN RESTROOMS SHALL BE SERVED OFF THE ADA WATER CLOSET FLUSH VALVE. ALL FLOOR DRAINS MUST HAVE A TRAP PRIMER.
37. UNDERGROUND SANITARY DRAIN PIPE SHALL BE SERVICE WEIGHT HUB AND SPIGOT CAST IRON WITH PUSH-ON GASKETS, UNLESS NOTED OTHERWISE. ABOVE GROUND SANITARY DRAIN PIPING SHALL BE SERVICE WEIGHT CAST IRON WITH NO-HUB FITTINGS, OR SCH. 40 PVC. WITH DWV FITTINGS. DRAIN AND VENT PIPING BRANCHES MAY BE COPPER OR PVC. PVC PIPING IS NOT ALLOWED IN PLENUM RATED AREAS.
38. VENT PIPING SHALL BE COMPATIBLE WITH THE ROOF STRUCTURE AND SHALL EXTEND A MINIMUM OF 9" ABOVE THE ROOF. PROVIDE ROOF JACK COMPATIBLE WITH THE ROOF TYPE. INSTALL ROOF JACKS IN SUCH A MANNER AS TO HIDE FROM VIEW BELOW.
39. CAP ALL PIPE OPENINGS, AT END OF WORK DAY, DURING CONSTRUCTION.
40. TEST ALL NEW PLUMBING SERVICES INSTALLED AS PART OF CONTRACT.
41. INSTALL PIPING PARALLEL AND PERPENDICULAR TO BUILDING WALLS AND PARTITIONS, UNLESS DIRECTED OTHERWISE.
42. MAKE CHANGES IN DIRECTION WITH FITTINGS. MAKE CHANGES IN MAIN SIZES WITH ECCENTRIC REDUCING FITTINGS. INSTALL WATER SUPPLY AND RETURN PIPING WITH THE STRAIGHT SIDE OF THE ECCENTRIC FITTING AT THE TOP OF THE PIPE AND SLOPE THE BRANCHES TO THE MAIN.
43. MAKE CHANGES IN PIPE SIZE NOTED ON THE PLANS AFTER THE LAST FITTING OF THE LARGER PIPE. WHEN SUPPLY PIPES ARE LARGER THAN THE EQUIPMENT CONNECTIONS, REDUCE IMMEDIATELY PRIOR TO ENTRY. VALVES AND UNIONS SHALL BE FULL SIZE - NOT EQUIPMENT SIZE.
44. CONTRACTOR SHALL COORDINATE REQUIREMENTS FOR ALL PLUMBING ITEMS AND THEIR REQUIREMENTS TO PROVIDE A FULLY FUNCTIONAL PLUMBING FIXTURE, WHETHER SHOWN ON PLANS OR SPECIFICATIONS, OR NOT, AT NO ADDITIONAL COST.
45. CONTRACTOR SHALL GUARANTEE ALL WORK FOR WHICH MATERIALS ARE FURNISHED, FABRICATED OR FIELD ERECTED, ALL FACTORY ASSEMBLED EQUIPMENT FOR WHICH NO SPECIFIC MANUFACTURER'S GUARANTEE IS FURNISHED AND ALL WORK IN CONNECTION WITH THE INSTALLATION OF MANUFACTURER'S GUARANTEED EQUIPMENT. THE CONTRACTOR'S GUARANTEE SHALL EXIST FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL OWNER ACCEPTANCE OR THE WORK AND SHALL APPLY TO ALL DEFECTS IN MATERIALS AND/OR WORKMANSHIP OF ANY KIND.
46. CONTRACTOR/S SHALL BE LICENSED TO PERFORM WORK IN THE STATE IN WHICH THIS PROJECT WILL BE COMPLETED. CONTRACTOR/S SHALL MAINTAIN A COPY OF THEIR LICENSES WITH THEM TO SHOW TO INSPECTORS WHERE REQUIRED BY LOCAL CODES.

LEGEND

(ALL SYMBOLS MAY NOT BE USED)

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
AC	ABOVE COUNTER
ACU	AIR CONDITIONING UNIT
AFF	ABOVE FINISHED FLOOR
AFC	ABOVE FINISHED CEILING
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
APPROX	APPROXIMATE
BC	BELOW COUNTER
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISH GRADE
CW	COLD WATER
DEG (°)	DEGREE
DIA	DIAMETER
ELEV	ELEVATION
EX	EXISTING
GAL	GALLONS
GPH	GALLONS PER HOUR
HT	HEIGHT
HP	HORSEPOWER
HW	HOT WATER
HWR	HOT WATER RETURN
ID	INSIDE DIAMETER/DIMENSION
KW	KILOWATT
LF	LINEAR FEET
MAX	MAXIMUM
NA	NOT APPLICABLE
NO	NUMBER
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER/DIMENSION
PSI	POUNDS PER SQUARE INCH
PRESS	PRESSURE
RECIRC	RECIRCULATE
QTY	QUANTITY
RA	RETURN AIR
SPEC	SPECIFICATION
SS	SANITARY SEWER
SW	SPRING WATER
TEMP	TEMPERATURE
TFD	TO FLOOR DRAIN
TOT	TOTAL
V	VENT
VEL	VELOCITY
VERT	VERTICAL
VLV	VALVE
VOL	VOLUME
VTR	VENT THRU ROOF
WTR	WATER
WT	WEIGHT

PLUMBING SYMBOLS

- ELBOW DOWN
- OR — RISER UP
- PIPE DOWN
- TEE (TOP,SIDE,BOTTOM)
- UNION CONNECTION
- CHECK VALVE
- ISOLATION VALVE (VERTICAL INSTALLATION)
- OR — ISOLATION VALVE
  GATE VALVE BALL VALVE
- HWR CIRCUIT FLOW CONTROL VALVE
- NATURAL GAS COCK
- REDUCED PRESSURE ZONE BACKFLOW ASSEMBLY (RZBP)
- 4"RD — PRIMARY ROOF DRAIN
- 4"ERD — EMERGENCY ROOF DRAIN
- NATURAL GAS METER W/ REG.
- R — NATURAL GAS REGULATOR
- M — DOMESTIC WATER METER
- HOSE BIBB
- NATURAL GAS CONNECTION
- COMPRESSED AIR OUTLET
- NEW PLUMBING FIXTURE
- EXISTING PLUMBING FIXTURE
- AAV — AIR ADMITTANCE VALVE (MAXI STUDOR VENT)
- FD — FLOOR DRAIN (FD)
- HD — HUB DRAIN (HD)
- FLOOR SINK (FS) FULL GRATE
- FLOOR SINK (FS) 1/2 GRATE
- FLOOR SINK (FS) 3/4 GRATE

DOMESTIC WATER & FIRE PROTECTION

- DOMESTIC COLD WATER
- DOMESTIC HOT WATER (110°F)
- DOMESTIC HOT WATER RETURN
- 140°F — DOMESTIC HOT WATER (140°F)
- 160°F — DOMESTIC HOT WATER (160°F)
- 140°F HWR — DOMESTIC HOT WATER RETURN (140°F)
- 160°F HWR — DOMESTIC HOT WATER RETURN (160°F)
- FW — FILTERED WATER
- UNDER SLAB PIPING
- CW — DOMESTIC WATER SITE DOMESTIC
- FP — WATER FIRE PROTECTION

DOMESTIC SEWER

- SANITARY SEWER
- SEWER VENT
- AW — ACID WASTE SEWER
- AV — ACID VENT
- SS — SITE SANITARY SEWER
- SPD — SUMP PUMP DISCHARGE - SEWER
- PD — PUMP DISCHARGE - SEWER
- SD — PRIMARY STORM DRAIN - SEWER
- ESD — EMERGENCY STORM DRAIN - SEWER
- GW — GREASE WASTE - SEWER
- OW — OIL WASTE - SEWER
- CGWV — COMBINATION GREASE WASTE & VENT
- CWV — COMBINATION WASTE & VENT
- FCO — FLOOR CLEANOUT (SIZE SHALL BE SAME AS CARRIER PIPE)
- COTG — CLEANOUT TO GRADE (SIZE SHALL BE SAME AS CARRIER PIPE)
- DCOTG — DOUBLE CLEANOUT TO GRADE (SIZE SHALL BE SAME AS CARRIER PIPE)
- WCO — WALL CLEANOUT

NATURAL GAS / PROCESS PIPING

- G — NATURAL GAS (LOW PRESSURE)
- MPG — NATURAL GAS (MEDIUM PRESSURE)
- CA — COMPRESSED AIR
- V — VACUUM
- O x — OXYGEN

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Revision Date	Revision

Project Title

BA Academy Interior Renovation

412 S 9th St
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Sheet Title

PLUMBING LEGEND AND GENERAL NOTES

Drawn RHG
Checked RHG
Project Number 2416

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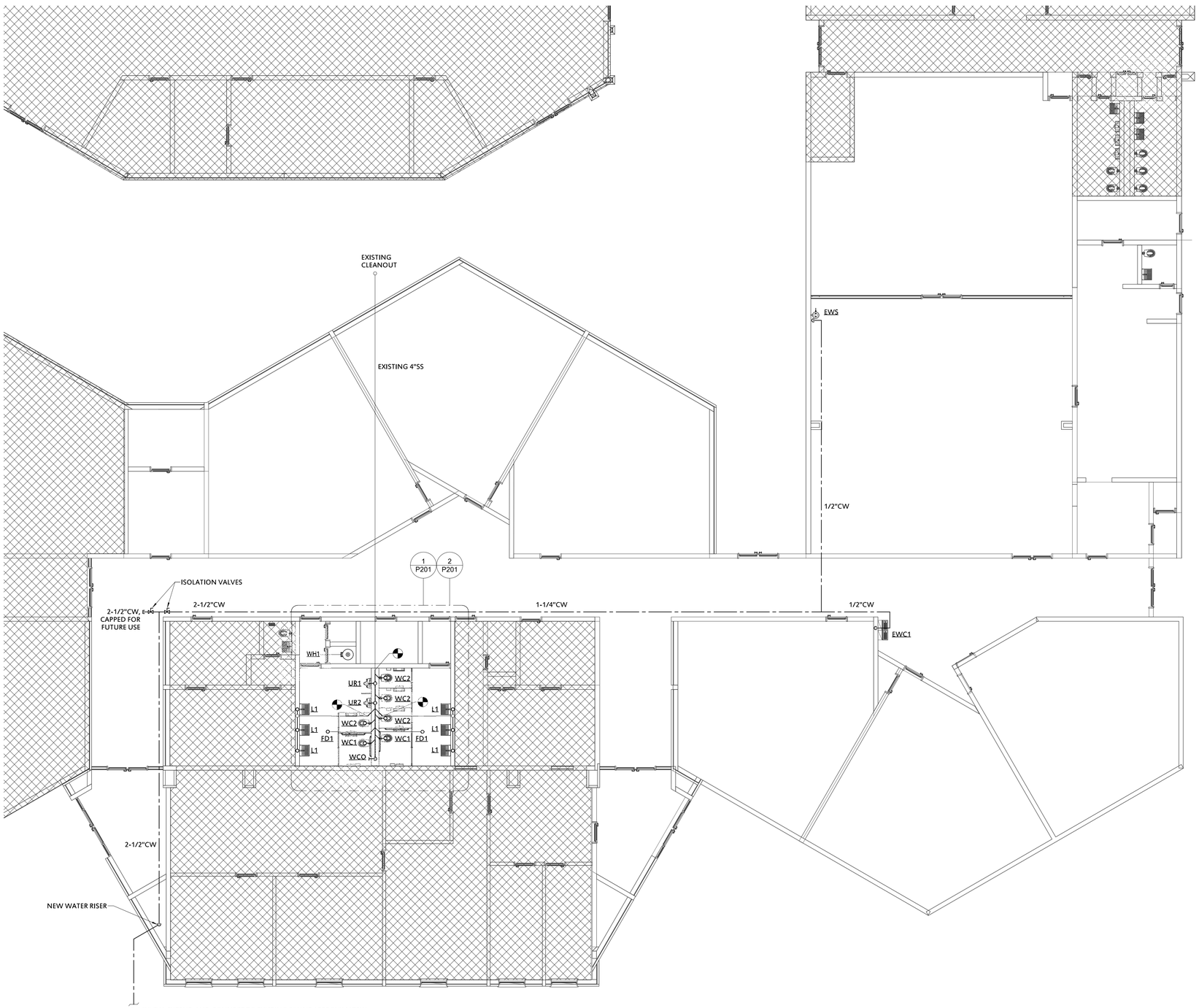
Issue Date 07/26/2024
Sheet Number **P001**



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

LEGEND

1. REFER TO SHEET P-001 FOR LEGEND.

GENERAL NOTES

1. REFER TO SHEET P-001 FOR GENERAL NOTES.
2. PLUMBING CONTRACTOR SHALL PROVIDE A CAMERA INSPECTION OF THE SANITARY SEWER LINE FROM THE NEW WALL CLEAN OUT TO THE EXISTING CLEANOUT IN THE COURTYARD, INDICATED ON SHEET P-101, APPROXIMATELY 75'-0" AWAY.
3. PROVIDE AS-BUILT MARKUPS TO THE ARCHITECT UPON COMPLETION OF THE PLUMBING WORK.

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Project Title
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Sheet Title
PLUMBING PLAN

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Sheet Number
P101

LEGEND

1. REFER TO SHEET P-001 FOR LEGEND.

GENERAL NOTES

1. REFER TO SHEET P-001 FOR GENERAL NOTES.
2. PLUMBING CONTRACTOR SHALL PROVIDE A CAMERA INSPECTION OF THE SANITARY SEWER LINE FROM THE NEW WALL CLEAN OUT TO THE EXISTING CLEANOUT IN THE COURTYARD, INDICATED ON SHEET P-101, APPROXIMATELY 75'-0" AWAY.
3. PROVIDE AS-BUILT MARKUPS TO THE ARCHITECT UPON COMPLETION OF THE PLUMBING WORK.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
P01	1/2" CW AND 1/2" HW TO LAVATORY
P02	3/4" CW TO URINAL
P03	1" CW TO WATER CLOSET
P04	3/4"CW AND 3/4"HW TO WATER HEATER
P05	INSTALL CLEANOUT 12" ABOVE FLOOR RIM OF WC1. CLEANOUT TO BE EXTENDED AND FLUSH WITH WALL, PER DETAIL.

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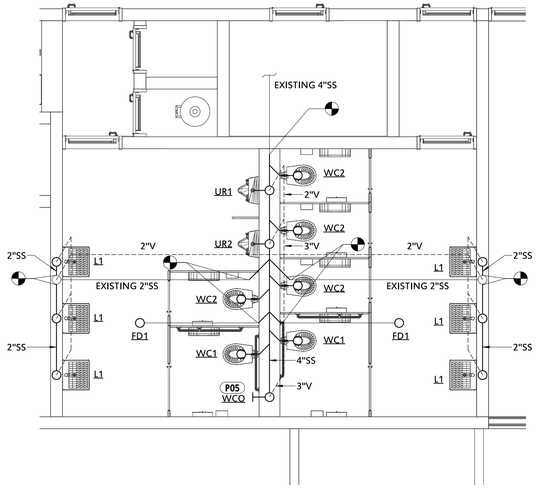
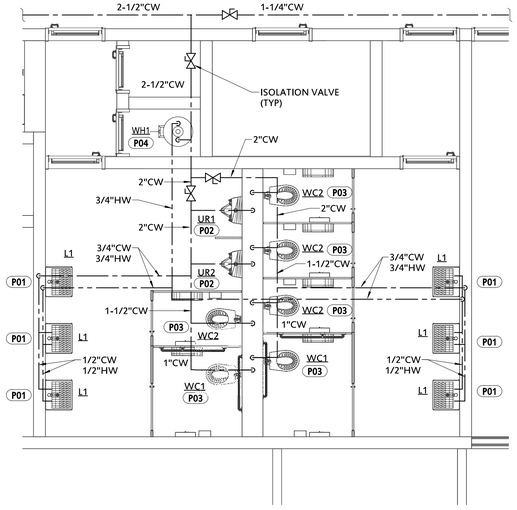


1 SANITARY SEWER AND VENT PLAN
1/4" = 1'-0"



2 DOMESTIC WATER PLAN
1/4" = 1'-0"

Project Title
BA Academy Interior Renovation

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Sheet Title
ENLARGED PLUMBING PLANS

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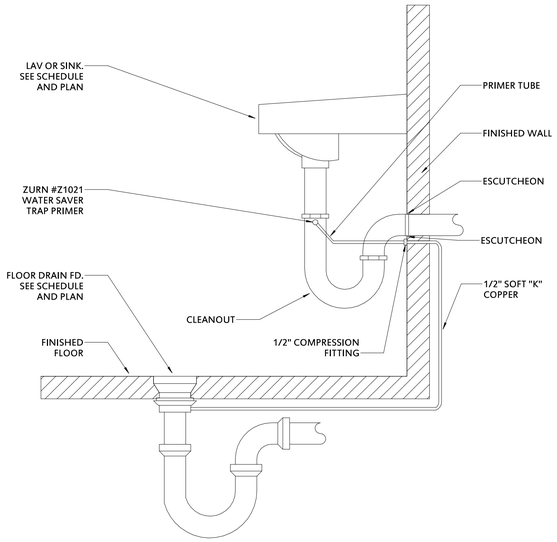
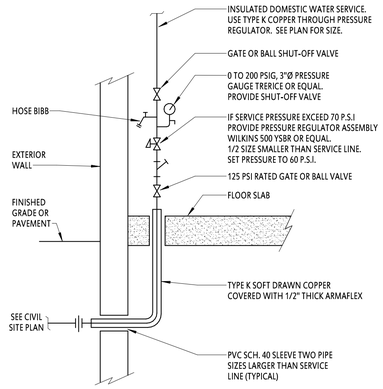
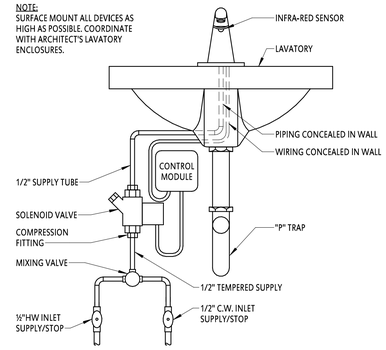


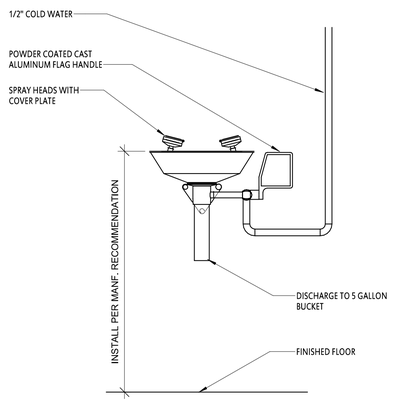
7 TRAP PRIMER DETAIL
N.T.S.



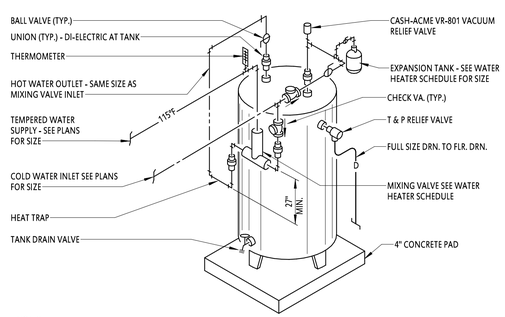
6 RISER WITH REGULATOR
N.T.S.



5 TYPICAL LAVATORY INSTALLATION
N.T.S.

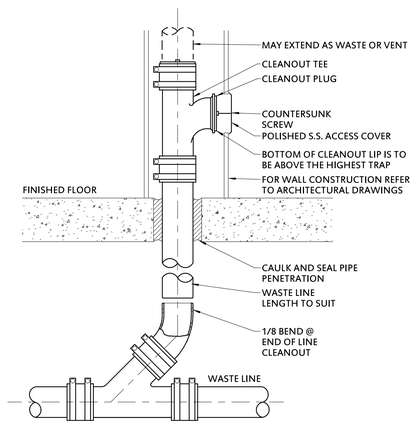


4 EMERGENCY EYEWASH STATION
N.T.S.



NOTES:
1. ON ALL TANK OPENINGS PROVIDE A SHORT NIPPLE OF SAME MATERIAL AS TANK OPENING.
2. MIXING VALVE TO BE PIPED IN STRICT ACCORDANCE WITH MFR. INSTALLATION INSTRUCTIONS.
3. PROVIDE 2" DEEP GALVANIZED WATER HEATER DRAIN PAN, WITH DRAIN, UNDER WATER HEATER.

3 ELECTRIC WATER HEATER with MIXING VALVE
N.T.S.



2 WALL CLEANOUT
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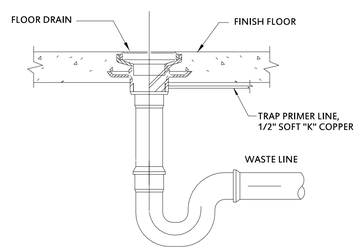

1 FLOOR DRAIN DETAIL
N.T.S.

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PLUMBING DETAILS

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7/26/2024

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P501

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	TYPE	MANUFACTURER	MODEL	TRIM	WATER				WASTE		VENT	NOTES
						COLD		HOT					
						RUNOUT	CONN	RUNOUT	CONN	RUNOUT	CONN		
WC1	WATER CLOSET (ADA)	FLOOR MOUNT ELONGATED VITREOUS CHINA	KOHLER	K-4368	SEAT: OLSONITE #10SSCT FLUSHOMETER: SLOAN ROYAL 111-SFSM, 1.6 GPF, SENTINEL FLUSH, HARD WIRED	1"	1"	--	--	4"	4"	2"	1,2,6,10,13
WC2	WATER CLOSET	FLOOR MOUNT ELONGATED VITREOUS CHINA	KOHLER	K-4350	SEAT: OLSONITE #10SSCT FLUSHOMETER: SLOAN ROYAL 111-SFSM, 1.6 GPF, SENTINEL FLUSH, HARD WIRED	1"	1"	--	--	4"	4"	2"	1,2,3,6
UR1	URINAL (ADA)	VITREOUS CHINA	KOHLER	BARDON K-4991-ET	CARRIER: ZURN-1222-58 FLUSHOMETER: SLOAN ROYAL 186-SFSM-0.5 0.5 GPF, SENTINEL FLUSH, HARD WIRED	3/4"	3/4"	--	--	2"	2"	1-1/2"	3, 4
UR2	URINAL	VITREOUS CHINA	KOHLER	BARDON K-4991-ET	CARRIER: ZURN Z-1222-58 FLUSHOMETER: SLOAN ROYAL 186-SFSM-0.5 0.5 GPF, SENTINEL FLUSH, HARD WIRED	3/4"	3/4"	--	--	2"	2"	1-1/2"	3,4
L1	LAVATORY (ADA)	WALL HUNG CAST IRON	KOHLER	HUDSON K-2812	FAUCET: SLOAN ETF-600-BOX-BDT-CP-0.5GPM-MLM-FCT, HADWIRED; OFFSET TAIL PIECE GRID STRAINER; STOPS: MCGUIRE #LFBV02; TRAP: MCGUIRE #8872	1/2"	3/8"	1/2"	3/8"	1-1/2"	1-1/4"	1-1/4"	2,3,4,5,6,7,12,14
EWC1	ELECTRIC WATER COOLER (ADA)	BI-LEVEL BOTTLE FILL VANDAL RESISTANT	ELKAY	VRCGRNTLBWSK	BARRIER FREE, STAINLESS STEEL, CANE APRON; STOP: MCGUIRE #LFBV2166CCSS12; TRAP: MCGUIRE #8872	1/2"	3/8"	--	--	2"	1-1/2"	1-1/2"	2,3,11
EWS	EMERGENCY EYEWASH STATION	WALL MOUNT STAINLESS STEEL	GUARDIAN	G1814	STAINLESS STEEL; TAILPIECE	1/2"	1/2"	--	--	--	1-1/2"	--	3, 11

NOTES:
1. BOLT CAPS WITH RETAINER CLIPS.
2. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
3. MOUNT FIXTURE AT ADA COMPLIANT HEIGHT.
4. MOUNT FIXTURE TO NEW CARRIER APPROPRIATE FOR THE PLUMBING FIXTURE (CARRIERS BY WADE, ZURN, OR JR SMITH).
5. INSTALL MCGUIRE PROVARAP PW2125WC FOR ADA COMPLIANCE.
6. CHROME PLATED ANGLE SUPPLY AND CHROME PLATED ESCUTCHEON.
7. CHROME PLATED TUBULAR P-TRAP WITH CLEANOUT PLUG & ESCUTCHEON.
8. SET TEMPERATURE FOR MIXING VALVE AT 105 DEG F.
9. PROVIDE THERMOSTATIC MIXING VALVE. SYMMONS TEMPCONTROL OR EQUAL, SIZED TO MATCH LINE SIZE.
10. LOCATE FLUSH VALVES FOR HANDICAP ACCESSIBLE WATER CLOSETS WITH FLUSH LEVER ON THE WIDE ACCESS SIDE OF FIXTURE.
11. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
12. PROVIDE WITH MANUFACTURER'S SHROUD/KNEE CONTACT GUARD.
13. PROVIDE WITH MANUFACTURER'S TRANSFORMER, SLOAN EL-451.
14. PROVIDE WITH Y STRAINER LOCATED UPSTREAM OF INFRARED SOLENOID VALVE.
15. PROVIDE WITH FD1.

WATER HEATER SCHEDULE

MARK	STOR. CAP.-GAL.	BTUH / KW INPUT	RECOVERY		FLUE SIZE	MFR. & MDL.	LEAVING WATER TEMP (DEG F)	MIXING VALVE	LEAVING WATER TEMP (DEG F)	CIRCULATING PUMP		EXPANSION TANK		NOTES
			GPH	RISE						MFR. & MDL.	ELECTRICAL	MFR. & MDL.	CAP.-GAL.	
WH1	28	4.5	21	90	--	LOCHINVAR JER-30 DAK	140	WATTS LFLM491	115	--	--	WATTS #DETA-12	2.5	1

NOTES

1. SET TO 140 DEGREE F. OUTLET WATER TEMPERATURE, PROVIDE DIAL TEMPERATURE AND PRESSURE GAUGES, ELECTRONIC LOW WATER CUTOFF SWITCH.

SPECIALTY PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	DRAIN DESCRIPTION	MANUFACTURER MODEL NO.	WASTE		VENT	NOTES
				RUNOUT	CONN		
FD	FLOOR DRAIN	CAST IRON WITH FLANGE, INTEGRAL CLAMPING COLLAR, ADJUSTABLE STRAINER, 6" NICKEL BRONZE STRAINER, 1/2" PRIMER TAP	WADE 1100-A	3"	3"	--	1,3,4
WCO	WALL CLEANOUT	CAST IRON CLEANOUT FERRULE WITH COUNTERSUNK ABS PLUG, SMOOTH ROUND STAINLESS STEEL ACCESS COVER, VANDAL PROOF	WADE 8560	--	4"	--	3,5,6

NOTES:
1. SATIN FINISHED NICKEL BRONZE STRAINER.
2. PROVIDE WITH PROSET TRAP GUARD.
3. OUTLET SIZED ON PLANS.
4. COORDINATE EXACT INSTALLATION OF FIXTURE WITH FINISHED FLOOR MATERIAL PRIOR TO ORDERING FIXTURE.
5. CLEANOUTS SHALL BE SAME SIZE AS PIPE UP TO 4". LARGER PIPING SHALL USE 4" CLEANOUTS.
6. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS.

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CA 7195 (PE/LS) EXPIRES 06/30/2026

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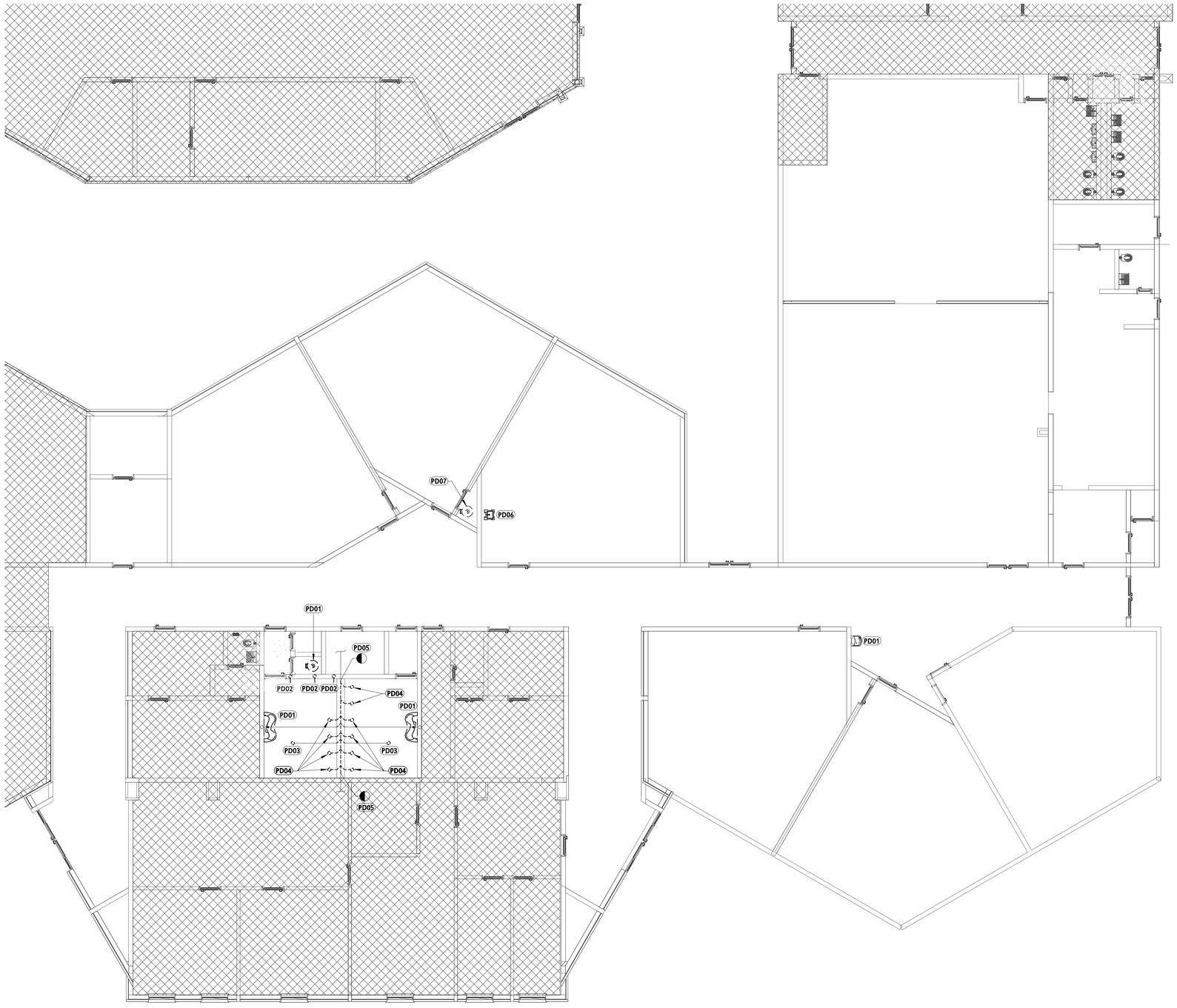

1 PLUMBING PLAN - DEMO
1/8" = 1'-0"

KEYNOTE LEGEND	
KEY VALUE	**KEYNOTE TEXT**
PD01	DEMOLISH EXISTING PLUMBING FIXTURE. CAP EXISTING UTILITIES FOR NEW FIXTURE.
PD02	EXISTING UTILITIES TO BE DEMOLISHED. CAP IN WALL. REFER TO ARCHITECTURAL DRAWINGS FOR PATCH AND REPAIR NOTES.
PD03	DEMOLISH EXISTING FLOOR DRAIN. SAW CUT AS NEEDED TO MODIFY EXISTING UTILITIES FOR NEW FLOOR DRAIN.
PD04	DEMOLISH EXISTING WATER CLOSET FLANGE AND EXISTING SANITARY SEWER PIPE AS INDICATED.
PD05	DEMOLISH EXISTING SANITARY SEWER PIPE AS INDICATED. SAW CUT FLOOR AS NECESSARY TO ACCESS EXISTING SANITARY SEWER PIPE TO BE DEMOLISHED.
PD06	DEMOLISH EXISTING SINK. DEMOLISH EXISTING UTILITIES AND CAP IN WALL. REFER TO ARCHITECTURAL DRAWINGS FOR PATCH AND REPAIR NOTES.
PD07	DEMOLISH EXISTING WATER HEATER AND ASSOCIATED HOT WATER AND COLD WATER PIPING.

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PLUMBING DEMOLITION PLAN

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