LEGEND

VALVE SYMBOLS

- GATE VALVE
- GLOBE VALVE
- CHECK VALVE (NON SLAM)
- PLUG VALVE
- PRESSURE REDUCING VALVE (PRV)
- PRESSURE REGULATOR
- BUTTERFLY VALVE
- BALL VALVE
- NEEDLE VALVE
- VENTURI FLOW METER
- VALVE IN DROP
- VALVE IN CENTER DROP
- VALVE IN RISE
- GATE VALVE W/ 3/4" HOSE THREAD ADAPTER
- SOLENOID VALVE
- TWO-WAY CONTROL VALVE
- THREE-WAY CONTROL VALVE
- SAFETY VALVE OR PRESSURE RELIEF VALVE
- MANUAL BALANCING VALVE
- AUTOMATIC BALANCING VALVE
- TEMPERATURE WELL
- FLANGED VALVE (GATE VALVE SHOWN)
- ORIFICE FLOW PLATE

EQUIPMENT SYMBOLS

- NEW EQUIPMENT
- EQUIPMENT CLEARANCE

PIPING SYMBOLS

- PITCH DOWN IN DIRECTION OF ARROW
- DIRECTION OF FLOW
- PIPE ANCHOR
- PIPE ANCHOR
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- BRANCH - SIDE CONNECTION
- BRANCH - TOP CONNECTION
- BRANCH - BOTTOM CONNECTION
- RISE OR DROP IN PIPE
- RISER DOWN (ELBOW)
- RISER UP (ELBOW)
- CAPPED PIPE
- BLIND FLANGE
- UNION (SCREWED)
- ORIFICE UNION
- FLANGED CONNECTION
- TEMPERATURE & PRESSURE PORT
- STRAINER WITH BLOWDOWN VALVE
- FLEX PIPE
- FLEX CONNECTION
- BELLOWS CONNECTION (DOUBLE SPHERE NEOPRENE TYPE)
- THERMOMETER
- PRESSURE GAGE WITH COCK
- FS — FLOW SWITCH
- PS — PRESSURE SWITCH
- PUMP
- LINE/WALL CLEANOUT
- M — WATER METER
- G — GAS METER
- FLOOR CLEANOUT
- HOSE BIBB/WALL HYDRANT
- FLOOR DRAIN
- P-TRAP
- PLUMBING FIXTURES AND EQUIPMENT
- DCBFP — DOUBLE CHECK BACKFLOW PREVENTER
- RPBFP — REDUCED PRESSURE BACKFLOW PREVENTER
- P / 1 — RISER DESIGNATION "P": DENOTES SANITARY WASTE AND VENT RISER DIAGRAM OR DOMESTIC COLD AND HOT WATER RISER DIAGRAM

MISCELLANEOUS

- PROCESS VACUUM CONN
- BREATHING AIR CONN
- PROCESS COMPRESSED AIR CONN
- DEBRIS VACUUM CONN
- X — DENOTES NEW COLUMN GRID
- E.X — DENOTES EXISTING COLUMN GRID
- 100 — KEYNOTE REFERENCE
- POINT OF CONNECTION NEW TO EXISTING
- WATER HAMMER ARRESTOR
- VTR — VENT THROUGH ROOF

PIPING TYPES

SS	SANITARY SEWER
V	SANITARY VENT (V)
	DOMESTIC COLD WATER (DCW)
	DOMESTIC HOT WATER (DHW)
	DOMESTIC HOT WATER RETURN (DHWR)
NPW	NON POTABLE WATER
SV	COMBINATION WASTE AND VENT
TP	TRAP PRIMER
G	NATURAL GAS
CD	CONDENSATE DRAIN
SD	STORM DRAIN
OD	OVERFLOW DRAIN
FS	FUEL SUPPLY
FR	FUEL RETURN
GW	GREASE WASTE
PD	PUMP DISCHARGE

DRAWING/DETAIL REFERENCE KEY

RE : 2 / P-201

- REFER TO
- DRAWING/DETAIL NUMBER
- SHEET NUMBER ON WHICH DETAIL IS DRAWN

SITE/UTILITY INFORMATION

WATER SERVICE FLOW TEST DATA

FLOW TEST HAS NOT BEEN PERFORMED.

CODE COMPLIANCE

THE PLUMBING SYSTEMS ON THESE DRAWINGS ARE IN COMPLIANCE WITH THE 2021 INTERNATIONAL PLUMBING CODE AND 2018 INTERNATIONAL ENERGY CONSERVATION CODE.

STORM DRAIN DESIGN

THE PRIMARY STORM DRAINAGE IS VIA GUTTERS AND DOWNSPOUTS. DESIGN IS BASED ON 3.9 INCH/HR RAIN FALL RATE.

GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS FOR CONSTRUCTION.

B. COORDINATE THE EXACT LOCATION OF FLOOR DRAINS AND FLOOR SINKS WITH THE ARCHITECTURAL DRAWINGS AND MECHANICAL EQUIPMENT LOCATIONS PRIOR TO INSTALLATION OF DRAINS. PROVIDE A RADIUS AROUND THE FLOOR DRAIN THAT SLOPES TOWARD THE FLOOR DRAIN FROM THE FINISHED FLOOR ELEVATION TO A TOP OF DRAIN ELEVATION BETWEEN 1/2" AND 3/4" BELOW FINISHED FLOOR, UNLESS OTHERWISE NOTED ON THE DRAWINGS. THE RADIUS AND RATE OF SLOPE IS TO BE FIELD COORDINATED.

C. FURNISH ACCESS DOORS FOR INSTALLATION IN WALLS AND CEILINGS WHERE ACCESS IS REQUIRED TO CONCEALED PLUMBING EQUIPMENT, VALVES, CONTROLS, AND OTHER DEVICES.

D. WHERE APPROVAL CODES HAVE BEEN ESTABLISHED BY OSHA, UL (UNDERWRITERS LABORATORIES), AMERICAN CODES, ANSI, ARI, ASA, ASHRAE, ASPE, ASSE, ASTM, AWWA, NEC, NFPA, SMACNA, OR THE STATE FIRE INSURANCE REGULATORY BODY, FOLLOW THESE STANDARDS WHETHER OR NOT INDICATED ON THE DRAWINGS.

E. COORDINATE WORK WITH ARCHITECTURAL FEATURES AND COORDINATE WORK SUCH THAT INTERFERENCES BETWEEN PIPING, DUCTWORK, EQUIPMENT, FIRE PROTECTION WORK, PLUMBING WORK, ELECTRICAL WORK, AND BUILDING STRUCTURE WILL BE AVOIDED.

F. PROVIDE THE ENTIRE SYSTEM AND ITS COMPONENT ITEMS OF EQUIPMENT IN OPERATING CONDITION WITHOUT OBJECTIONABLE VIBRATION OR NOISE. PROVIDE WATER HAMMER ARRESTORS AT RESTROOM PLUMBING CHASES. NOISE LEVELS IN OFFICES SHALL BE MAINTAINED AT OR BELOW NC35.

G. PROVIDE ALL WIRING AND ELECTRICAL CONTROLS IN ACCORDANCE WITH NFPA 70 (NEC).

H. VERIFY AND DOCUMENT EXISTING CONDITIONS AND DIMENSIONS ON THE JOB SITE PRIOR TO STARTING ANY WORK.

J. DO NOT SCALE THESE DRAWINGS FOR CONSTRUCTION PURPOSES.

K. INSTALL PIPING TO PROVIDE THE MAXIMUM POSSIBLE CLEAR HEIGHT UNDERNEATH. MAINTAIN A MINIMUM OF 6 INCHES ABOVE FINISHED CEILING TO PROVIDE CLEARANCE FOR LIGHTING FIXTURES.

L. CONTRACTOR TO MAKE ALL FINAL CONNECTIONS TO EQUIPMENT, INCLUDING OWNER FURNISHED.

M. VENT TERMINALS SHALL EXTEND A MINIMUM OF 10" ABOVE THE FINISHED ROOF AND SHALL BE LOCATED A MINIMUM OF 10 FEET HORIZONTALLY FROM ANY DOOR, OPERABLE WINDOW, OR OTHER AIR INTAKE OF THE BUILDING OR ADJACENT BUILDING UNLESS THE VENT TERMINAL IS AT LEAST 2 FEET ABOVE THE TOP OF SUCH OPENING.

N. ALL VENT LINES ARE TO RISE VERTICALLY (45 DEG. ANGLE OR GREATER FROM HORIZONTAL) TO MINIMUM OF 6" ABOVE THE HIGHEST FLOOD LEVEL RIM OF THE HIGHEST FIXTURE SERVED BY VENT.

P. NO PVC PIPE SHALL BE PERMITTED ABOVE THE CEILING ON EITHER FLOOR AS BOTH CEILING SPACES ARE RETURN AIR PLENUMS.

Q. CONTRACTORS ARE FREE TO USE ANY PRODUCT WHICH MEETS THE GOVERNMENT MINIMUM REQUIREMENTS AND IS NOT IN CONFLICT WITH OTHER CONTRACT PROVISIONS. UNLESS INDICATED OTHERWISE ON THE PLANS OR SPECIFICATIONS (E.G. SOLE-SOURCE), ALL LISTED MANUFACTURERS ARE THE BASIS OF DESIGN. FOR THESE BASIS OF DESIGN PRODUCTS, OTHER MANUFACTURERS MAY BE SUBSTITUTED AS LONG AS THE STANDARD OF QUALITY AND CHARACTERISTICS OF THE SUBSTITUTED MANUFACTURERS MEET OR EXCEED THE STANDARD OF QUALITY AND CHARACTERISTICS OF THE BASIS OF DESIGN.

NO.	DATE	DR	CHK	APV'D	BY	APV'D
0	09/18/2024	100% ISSUED FOR CONSTRUCTION - EXPANSION REVISION	CCJ	SJG	JWG	TM
DSGN	JWG					

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Exp. Date: 12/31/2024

STATE OF ARKANSAS
STEVE J. GOODELL
ENGINEER
No. 9593
LICENSED PROFESSIONAL ENGINEER
09/18/2024
SEAL

Mixer-Building-1
Camden OSD
Calhoun County, Arkansas
Aerojet Rocketdyne

Jacobs NABHOLZ

PLUMBING
GENERAL NOTES AND SYMBOLS

SHEET NO
P-001

SCALE	NO SCALE
DATE	09/18/2024
PROJ	D3754502
DWG	CMDN-OSD_Mixer-Building-1_P-001

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