	<u>PLUMBING LE</u>	<u>GEND</u>	
<del></del>	ANCHOR	AFF	ABOVE FINISHED FLOOR
<u></u>	AQUASTAT	AD-1	AREA DRAIN - TYPE ONE
O AD	AREA DRAIN	BP	BACK FLOW PREVENTER
	BALANCING VALVE	BT-1	BATH TUB - TYPE ONE
	CAP	CI	CAST IRON
— <del>—</del> —	CHECK VALVE	CO	CLEAN OUT
o C.O.	CLEAN OUT	CS-1	CLINICAL SINK - TYPE ONE
<del></del>	COLD WATER	CW	COLD WATER
D	DRAIN LINE	CU	COPPER
	DRAIN VALVE	D	DRAIN
——————————————————————————————————————	DROP DOWN	DF-1	DRINKING FOUNTAIN — NUMBER ONE
0	FLOOR DRAIN	DT	DRAIN TILE
	FLOOR DRAIN WITH FUNNEL	DW-1	DISHWASHER — NUMBER ONE
0	OPEN HUB DRAIN		
<b>©</b>	OPEN HUB DRAIN WITH FUNNEL	EWC-1	ELECTRIC WATER COOLER — NUMBER ONE
	GATE VALVE	EX-1	EXISTING TO BE REMAIN
-	HOSE BIBB	EX-2	EXISTING TO BE RELOCATED
	HOT WATER CIRCULATION  HOT WATER	EX-3	EXISTING TO BE REMOVED
$\frac{P}{1}$	PLUMBING DIAGRAM — NUMBER ONE	FD-1	FLOOR DRAIN - TYPE ONE
•	POINT OF CONNECTION	FCO	FLOOR CLEAN OUT
<u> </u>	PRESSURE GAUGE	GWH-1	GAS WATER HEATER - NUMBER ONE
	RISE UP	GT-1	GREASE TRAP — NUMBER ONE
— s——	SANITARY SEWER		
ST	STORM SEWER	HB-1	HOSE BIBB - TYPE ONE
	STRAINER	HD-1	HUB DRAIN — TYPE ONE
<u></u>	TEMPERATURE/PRESSURE RELIEF	HWC	HOT WATER CIRCULATION
	VALVE	HW	HOT WATER
Щ	THERMOMETER	KS-1	KITCHEN SINK - TYPE ONE
	UNION	L-1	LAVATORY - TYPE ONE
	UNDERGROUND SEWER	M	METER
	(UNDER BUILDING)	MR-1	MOP RECEPTOR - TYPE ONE
(V)	VACUUM BREAKER	PP-1	PLUMBING PUMP - NUMBER ONE
	VALVE ON RISE	PG	PRESSURE GAUGE
	VENT	RPB	REDUCED PRESSURE BACK FLOW PREVENTER
$\frac{W}{1}$	WATER DIAGRAM — NUMBER ONE	RC	ROOF CONDUCTOR
	SOLENOID VALVE	RD-1	ROOF DRAIN - TYPE ONE
		SAN	SANITARY
-кw — кw —	KITCHEN WASTE	SH-1	SHOWER — TYPE ONE
		S-1	SINK - TYPE ONE
		ST	STORM
		TPRV	TEMPERATURE\PRESSURE RELIEF VALVE
		Т	THERMOMETER
		TYP	TYPICAL
		UR-1	URINAL — TYPE ONE
		V/P	VACILIM PREAKER

VENT THRU ROOF

WATER CLOSET - TYPE ONE

WATER SOFTENER - NUMBER ONE

GENERAL RELATED DOCUMENTS: PART OF THIS CONTRACT. AND CIVIL. **DEFINITIONS:** FOR PIPE HANGERS AND SUPPORTS." 2. WATER DISTRIBUTION PIPING: INTERIOR DOMESTIC WATER PIPING. 3. WATER SERVICE: EXTERIOR DOMESTIC WATER PIPING. ENTERED, AND USED BY PEOPLE WITH DISABILITIES. PERFORMANCE REQUIREMENTS: COMPONENTS. AND COMPONENTS. JURISDICTION. 4.1. DOMESTIC WATER PIPING: 125 PSIG. 4.3. STORM DRAINAGE PIPING: 10-FOOT HEAD OF WATER. 4.4. FORCE—MAIN: 100 PSIG. EQUIPMENT. 1.2. DIMENSIONED SHOP DRAWINGS OF EQUIPMENT. 1.3. PRODUCT DATA. 1.4. FIELD TEST CERTIFICATES. 1.5. OPERATION AND MAINTENANCE DATA. 1.6. EQUIPMENT MANUALS. 1.7. VALVE TAGS. 1.8. WELDING CERTIFICATES. CODES AND STANDARDS:

INTERNATIONAL CODE COUNCIL

NATIONAL FIRE PROTECTION ASSOCIATION.

PLUMBING AND DRAINAGE INSTITUTE.

UNDERWRITERS LABORATORIES.

BOILER AND PRESSURE VESSEL CODE: SECTION IX.

QUALITY ASSURANCE:

SPECIFIED TESTING AGENCY.

4. ASME COMPLIANCE:

5. NSF COMPLIANCE:

MATERIALS.

7. REGULATORY REQUIREMENTS:

CONTRACT DOCUMENTS:

SECTIONS 1 THROUGH 9."

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.

1. WELDING: QUALITY PROCEDURES AND PERSONNEL ACCORDING TO ASME

2. FIRE TEST RESPONSE CHARACTERISTICS: INSULATION AND RELATED MATERIALS

SHALL HAVE FIRE TEST RESPONSE CHARACTERISTICS INDICATED, AS

DETERMINED BY TESTING IDENTICAL PRODUCTS PER ASTM E 84, BY A

2.1. INSULATION INSTALLED INDOORS: FLAME SPREAD INDEX OF 25 OR

2.2. INSULATION INSTALLED OUTDOORS: FLAME SPREAD INDEX OF 75 OR

LESS, AND SMOKE DEVELOPED INDEX OF 50 OR LESS.

LESS, AND SMOKE DEVELOPED INDEX OF 150 OR LESS.

3. PIPING MATERIALS SHALL BEAR LABEL, STAMP, OR OTHER MARKINGS OF

4.2. ASME COMPLIANCE FOR FERROUS VALVES: ASME B16.10 AND ASME

5.2. NSF 61, "DRINKING WATER SYSTEM COMPONENTS — HEALTH EFFECTS;

6. ELECTRICAL COMPONENTS, DEVICES AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE

7.1. COMPLY WITH PUBLIC LAW 101-336, "AMERICAN WITH DISABILITIES

1. CONTRACTOR SHALL REVIEW CONTRACT DOCUMENTS AND BECOME FAMILIAR

2. THE DRAWINGS INDICATE THE GENERAL LAYOUT OF THE VARIOUS SYSTEM(S)

ENGINEERING REVIEW DUE TO ANY PROPOSED PRODUCT CHANGE AND/OR

VOLUNTARY "VALUE ENGINEERING" DURING THE BIDDING PROCEDURE AND

5. ANY CONFLICTING INFORMATION DEPICTED OR IMPLIED ON THE DRAWINGS

IDENTIFIED DURING THE BIDDING PROCESS SHALL BE SUBMITTED FOR

CLARIFICATION OF INTENT. FAILURE TO CLARIFY THE ARCHITECT/ENGINEER

INTENT, MAY MAKE THE CONTRACTOR LIABLE FOR ANY ASSOCIATED COSTS

ACCESSORIES AND OTHER COMPONENTS ARE DIAGRAMMATIC UNLESS

NOT RELIEVE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT.

IDENTIFY ALL DISCREPANCIES AND NOTIFY OWNER, IN WRITING.

AND EQUIPMENT. THE LAYOUT OF THE SYSTEM(S) EQUIPMENT,

3. CONTRACTOR SHALL BID ALL WORK AS SHOWN, AND MATERIAL AND

4. CONTRACTOR SHALL BE FINANCIALLY LIABLE FOR ANY REQUIRED

SPECIFICALLY SHOWN OR DIMENSIONED.

EQUIPMENT AS SPECIFIED HEREIN.

THE SUBMITTAL PROCESS.

WITH THE SITE AND LOCAL CONDITIONS RELATING TO WORK AS DESCRIBED

HEREIN PRIOR TO SUBMITTING BID PROPOSAL. FAILURE TO DO SO SHALL

ACT." AND "UNIFORM FEDERAL ACCESSIBILITY STANDARDS."

7.2. COMPLY WITH PUBLIC LAW 102-486, "ENERGY POLICY ACT."

TO AUTHORITIES HAVING JURISDICTION. AND MARKED FOR INTENDED USE.

5.1. NSF 14, "PLASTIC PIPING SYSTEM COMPONENTS AND RELATED

4.1. ASME B31.9 FOR BUILDING SERVICES PIPING VALVES.

B16.34 FOR DIMENSION AND DESIGN CRITERIA.

MARKINGS OF APPLICABLE TESTING AND INSPECTING AGENCY.

TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING

JURISDICTION. FACTORY LABEL INSULATION AND JACKET MATERIALS AND

ADHESIVE, MASTIC, AND CEMENT MATERIAL CONTAINERS, WITH APPROPRIATE

FACTORY MUTUAL STANDARD.

RELATIVE TO CHANGES DURING THE CONSTRUCTION PROCESS. SPECIFICATIONS AND DRAWINGS: 1. THE GENERAL REQUIREMENTS OF THE ARCHITECTURAL SPECIFICATIONS ARE SPECIFICATIONS AND DRAWINGS ARE INTENDED TO BE COOPERATIVE. WHAT IS 5. FASTENER SYSTEMS: CALLED FOR BY EITHER SHALL BE AS BINDING AS IF CALLED FOR BY BOTH. PART OF THESE SPECIFICATIONS. WHERE AN INCONSISTENCY EXISTS BETWEEN THE WORDING OR INTENT, THIS SECTION SHALL TAKE PRECEDENCE. ANY WORK OR MATERIALS NOT SPECIFICALLY MENTIONED THOUGH REQUIRED TO THE STANDARD FORM OF "GENERAL CONDITIONS" ISSUED BY THE AMERICAN MAKE THE JOB COMPLETE, SHALL BE FURNISHED AT THE CONTRACTOR'S INSTITUTE OF ARCHITECTS DOCUMENT A201, LATEST EDITION, SHALL FORM EXPENSE. 2. CONTRACT DOCUMENTS MAY INCLUDE, BUT NOT LIMITED TO THE FOLLOWING: PRIOR TO SUBMITTING BID PROPOSAL, CONTRACTOR SHALL VISIT THE SITE AND ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL, FIRE PROTECTION, BECOME FAMILIAR WITH THE SITE AND EXISTING FOR DOING WORK AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN. FAILURE TO COMPLY SHALL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT. CONTRACTOR SHALL IDENTIFY ALL DISCREPANCIES AND NOTIFY OWNER, IN . TERMINOLOGY: AS DEFINED IN MSS SP-90, "GUIDELINES ON TERMINOLOGY PERMITS, FEES & INSPECTIONS: 1. CONTRACTOR SHALL PREPARE AND SUBMIT ALL DATA, DRAWINGS AND DETAILS REQUIRED, SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, TAXES, INSPECTIONS AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK. 4. ACCESSIBLE FIXTURE: PLUMBING FIXTURE THAT CAN BE APPROACHED, 2. CONTRACTOR SHALL PAY FOR ALL APPLICABLE FEES FOR TEST AND INSPECTIONS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION. 3. WHERE REGULATIONS OF UTILITY COMPANIES APPLY, CONFORMANCE WITH 1. DESIGN SUPPORTS FOR MULTIPLE PIPES CAPABLE OF SUPPORTING THEIR REGULATIONS IS MANDATORY AND ANY COSTS INVOLVED SHALL BE COMBINED WEIGHT OF SUPPORTED SYSTEMS, SYSTEM CONTENTS, AND INCLUDED IN THE CONTRACT. LAWS AND ORDINANCES: 2. DESIGN EQUIPMENT SUPPORTS CAPABLE OF SUPPORTING COMBINED OPERATING WEIGHT OF SUPPORTED EQUIPMENT AND CONNECTED SYSTEMS CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS. ORDINANCES. RULES AND REGULATIONS BEARING ON THE CONDUCT OF WORK AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN. IF CONTRACTOR OBSERVES 3. DESIGN SEISMIC-RESTRAINT (IF APPLICABLE) HANGERS AND SUPPORTS FOR THAT THE DRAWINGS AND SPECIFICATIONS ARE AT VARIANCE THEREWITH, PIPING AND EQUIPMENT, AND OBTAIN APPROVAL FROM AUTHORITIES HAVING CONTRACTOR SHALL PROMPTLY NOTIFY OWNER IN WRITING WHEN SUBMITTING BID AND ANY NECESSARY CHANGES SHALL BE ADJUSTED AS PROVIDED IN THE CONTRACT FOR SUCH CHANGES IN WORK. IF CONTRACTOR PERFORMS ANY 4. COMPONENTS AND INSTALLATION SHALL BE CAPABLE OF WITHSTANDING THE WORK, CONTRARY TO SUCH LAWS, ORDINANCES, RULES AND REGULATIONS, FOLLOWING WORKING PRESSURE, UNLESS OTHERWISE INDICATED: CONTRACTOR SHALL BEAR ALL COSTS FOR CORRECTING THE WORK. TRADE JURISDICTION: 4.2. SANITARY WASTE AND VENT PIPING: 10-FOOT HEAD OF WATER. WHEN IT BECOMES NECESSARY FOR THE COMPLETE FULFILLMENT OF THIS WORK FOR THIS CONTRACTOR TO FURNISH LABOR OR MATERIALS OTHER THAN THAT WHICH IS GENERALLY ACCEPTED BY THIS TRADE OR BRANCH OF WORK, THE CONTRACTOR SHALL SUBLET SAME TO A CONTRACTOR ENGAGED IN THE TRADE OR BRANCH OF WORK INVOLVED. THERE SHALL BE NO DELAY TO OR . CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE ARCHITECT/ENGINEER A STOPPAGE OF WORK DUE TO THE INFRINGEMENT OR ALLEGED INFRINGEMENT TO COMPLETE LIST OF ITEMS TO BE FURNISHED AND INSTALLED UNDER THIS TRADE AGREEMENTS AS TO THE JURISDICTION. CONTRACT. INCLUDING, BUT NOT BE LIMITED TO THE FOLLOWING: REQUESTS FOR INFORMATION (RFI'S): 1.1. DIMENSIONED SHOP DRAWINGS OF MATERIALS, FIXTURES AND 1. ALL REQUESTS FOR INFORMATION (RFI'S) SHALL BE SUBMITTED TO THE GENERAL CONTRACTOR WHO THEN SUBMIT TO OWNER. 2. IF THERE IS NO CONSTRUCTION MANAGER OR GENERAL CONTRACTOR. SUBMIT RFI'S TO THE OWNER. ALL LABOR SHALL BE EXECUTED IN A NEAT, WORKMANLIKE MANNER AND SHALL BE PERFORMED BY PERSONS SKILLED IN THEIR RESPECTIVE TRADES 1. APPLICABLE CODES: THE OWNER SHALL DECIDE ALL MATTERS PERTAINING TO THE QUALITY OF 1.1. LOCAL PLUMBING CODE. WORKMANSHIP AND MATERIALS. 1.2. LOCAL DEPARTMENT OF PUBLIC HEALTH. 1.3. LOCAL AMENDMENTS TO PLUMBING CODE. COORDINATION OF WORK: 1.4. LOCAL ORDINANCES. CONTRACTOR SHALL COORDINATE WITH OTHER CONSTRUCTION TO AVOID 2. SYSTEMS SHALL BE DESIGNED, MANUFACTURED, TESTED AND INSTALLED IN INTERFERENCE BEFORE STARTING ANY INSTALLATION. ANY NEGLECT BY THE CONTRACTOR TO COORDINATE WITH OTHER CONSTRUCTION SHALL BE MADE AT ACCORDANCE WITH FOLLOWING STANDARDS: THE CONTRACTOR'S OWN EXPENSE. AMERICAN NATIONAL STANDARDS INSTITUTE. AIR CONDITIONING AND REFRIGERATION INSTITUTE. CUTTING AND PATCHING: AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONTRACTOR SHALL INCLUDE ALL CUTTING AND PATCHING, AS REQUIRED. ALL CONDITIONING ENGINEERS. AMERICAN SOCIETY OF MECHANICAL ENGINEERS. CORES THROUGH SLABS AND FOUNDATION WALLS SHALL BE APPROVED IN AMERICAN SOCIETY OF PLUMBING ENGINEERS. WRITING BY THE ARCHITECT/ENGINEER. CONTRACTOR SHALL ASSUME ALL AMERICAN SOCIETY OF SANITARY ENGINEERS. LIABILITIES FOR CORES WHICH HAVE NOT BEE APPROVED. PATCH ALL AMERICAN SOCIETY OF TESTING AND MATERIALS DISTURBED WALL, FLOORS, PARTITIONS, CEILINGS, ETC., RESTORE TO ORIGINAL CAST IRON SOIL AND PIPE INSTITUTE. INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OPERATING INSTRUCTIONS:

6. COVER ALL OF THE FOLLOWING PIPE TYPES LISTED WITH PREMOLDED PIPE INSULATION OF THICKNESS INDICATED, 4 LB. DENSITY AND ASJ JACKET. PIPE 2-1/2 INCH AND LARGER

CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE STOPPING, FIRE CAULKING AND INSTALLING ALL SYSTEMS WHERE PLUMBING PIPING AND EQUIPMENT PENETRATE FIRE RATED SYSTEMS. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE RATED WALLS, FLOORS AND STRUCTURES. MATERIAL SHALL STOP AND PREVENT FIRE AND SMOKE FROM PASSING/PENTRATING INSTRUCTIONS OF THE OPERATION OF ALL EQUIPMENT AND SHALL INSTRUCT IN EXECUTION

1. PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, FACILITIES, TRANSPORTATION, FEES AND SERVICES NECESSARY FOR A COMPLETE PLUMBING SYSTEM(S) AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. WORKMANSHIP SHALL BE COMPLETE IN EVERY ASPECT, TESTED, APPROVED AND SATISFACTORY TO THE ARCHITECT/ENGINEER AND IN ACCORDANCE WITH LOCAL, STATE AND

FEDERAL LAWS HAVING JURISDICTION. 2. IT IS THE DECLARED AND ACKNOWLEDGED INTENT OF THESE SPECIFICATIONS TO PROVIDE A COMPLETE PLUMBING SYSTEM(S), INCLUSIVE OF ALL REQUIRED PARTS AND ACCESSORIES COMPLETE AND READY FOR USE AS DESCRIBED, BUT NOT LIMITED TO THE FOLLOWING:

2.1. DOMESTIC WATER SERVICE AND DISTRIBUTION. 2.2. DOMESTIC HOT WATER. 2.3. SANITARY DRAINAGE SYSTEM. 2.4. PLUMBING FIXTURES. 2.5. PLUMBING EQUIPMENT

SPECIFICATIONS. PRODUCTS INSTALLED WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. 3. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT AND LOCATION OF THE WORK INCLUDED. WORK INDICATED. BUT HAVING MINOR DETAILS 3. MANUFACTURER(S) IDENTIFICATION OF MATERIAL: EACH LENGTH OF PIPE OBVIOUSLY OMITTED, SHALL BE PROVIDED, INCLUDING THESE DETAILS, PIPE FITTING, EQUIPMENT, DEVICE AND APPURTENANCE IN THE FIRE WITHOUT EXTRA COST TO THE OWNER. PROTECTION SYSTEM SHALL HAVE CAST, STAMPED OR INDELIBLY MARKED ON IT THE MARKER'S MARK OR NAME, WEIGHT, CLASS OF PRODUCT AND SUBMITTALS AND SHOP DRAWINGS:

2.6. PLUMBING SPECIALTIES.

1. SHOP DRAWING LAYOUT SUBMITTAL(S) SHALL BE A MINIMUM OF 1/8 INCH PER FOOT SCALE, SHOWING ALL PIPING TO BE INSTALLED. DETAILED LAYOUT(S) OF TOILETS, KITCHENS AND EQUIPMENT ROOMS SHALL BE NOT 1. PLUMBING FIXTURES AND TRIMMINGS HAVE BEEN SELECTED AS A BASE FOR LESS THAN 1/4 INCH PER FOOT SCALE. THE DRAWING SHALL ALSO SHOW THIS INSTALLATION, EXCEPT WHERE OTHERWISE SPECIFIED, BUT OTHER THE WORK COORDINATED WITH ALL OTHER TRADES, ALL DRAWINGS SHALL BE MAKES WHICH ARE EQUAL AND APPROVED MAY BE USED. CONTRACTOR SUBMITTED PRIOR TO STARTING ANY WORK, AND IN ACCORDANCE WITH AN SHALL SUBMIT FOR ARCHITECT/ENGINEER'S APPROVAL PORTFOLIO APPROVED SCHEDULE, PROVIDED BY THE GENERAL CONTRACTOR, TO AVOID ILLUSTRATING AND DESCRIBING IN DETAIL THE FIXTURES, TRIMMINGS AND ANY DELAY ON THE PROJECT. VALVES CONTRACTOR CONTEMPLATES USING, GIVING NAMES AND CATALOG

FOR THEIR APPROVAL.

NUMBERS OR IDENTIFYING DESCRIPTION. 2. EQUIPMENT, FIXTURES AND OTHER RELATED APPURTENANCES SHALL BE SUBMITTED ELECTRONICALLY. PLUMBING FIXTURES SHALL BE OF THE BEST QUALITY, GRADE "A", AND CONTRACTOR SHALL SUBMIT TO GOVERNMENTAL AGENCIES AND UTILITY SHALL HAVE MANUFACTURER'S GUARANTEE LABEL OR TRADEMARK INDICTING FIRST QUALITY. COMPANIES, SHOP DRAWINGS WHICH ARE REQUIRED BY THESE AGENCIES

2. INSTALL/PROVIDE FLUSH VALVES AND/OR FLUSH TANKS WITH HANDLE ON OPEN SIDE OF FIXTURE. 4. CONTRACTOR SHALL PREPARE AND FURNISH TO THE OWNER ELECTRONICALLY A COMPLETE LIST OF ALL EQUIPMENT INSTALLED UNDER 3. SET ALL FLOOR FIXTURES ON A WHITE TILE SETTERS GROUT TO FORM A THIS CONTRACT. EACH PIECE OF EQUIPMENT LISTED SHALL ALSO BE SOLID WATER TIGHT BASE. DESCRIBED BY MANUFACTURER(S) MODEL NUMBER, FIGURE NUMBER AND

4. CAULK ALL FIXTURES WATER TIGHT TO WALL AND FLOOR USING CLEAR SILICONE CAULK NEAT AND SMOOTHLY SET IN PLACE AND EXCESS CLEANED FROM WALL OR FIXTURE. HANGERS AND SUPPORTS:

CONTRACTOR SHALL PREPARE A TYPEWRITTEN LIST IN DUPLICATE, OF

CONTRACTOR SHALL GUARANTEE WORK TO BE FREE FROM DEFECTIVE

ITS OPERATION. ALL VALVES AND EQUIPMENT SHALL BE MARKED WITH A

METAL TAG AND A TYPEWRITTEN SCHEDULE SHALL BE GIVEN TO THE OWNER.

WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE

OF FINAL CERTIFICATE. ANY REPAIRS OR REPLACEMENT DURING THIS PERIOD

SHALL BE MADE WITHOUT COST TO THE OWNER, UPON OWNER'S REQUEST.

. ALL MATERIALS SHALL BE NEW AND OF FIRST CLASS PRODUCTS OF

2. THE DESIGN INTENT, SPACE REQUIREMENTS, PERFORMANCE, ETC., ARE

BASED ON PRODUCTS OF THE MANUFACTURER(S) INDICATED IN THESE

ARCHITECT/ENGINEER OF RECORD.

STANDARD THAT APPLIES.

PLUMBING FIXTURES:

MANUFACTURERS SPECIFIED HEREIN AND OR AS APPROVED BY THE

STEEL PIPE HANGERS AND SUPPORTS: MSS SP-58, TYPES 1 THROUGH 58, FACTORY-FABRICATED COMPONENTS. REFER TO EXECUTION SECTION "HANGER AND SUPPORT APPLICATIONS." 1.1. GALVANIZED, METALLIC COATINGS: PRE-GALVANIZED OR HOT DIPPED. NON-METALLIC COATINGS: PLASTIC COATING, JACKET, OR LINER. PADDED HANGERS: HANGER WITH FIBERGLASS OR OTHER PIPE

INSULATION PAD OR CUSHION FOR SUPPORT OF BEARING SURFACE OF 2. TRAPEZE PIPE HANGERS: MSS SP-69, TYPE 69, SHOP OR FIELD FABRICATED PIPE-SUPPORT ASSEMBLY MADE FROM STRUCTURAL STEEL SHAPES WITH MSS-SP-58 HANGER RODS, NUTS, SADDLES, AND U-BOLTS.

3. METAL FRAMING SYSTEMS: MFMA-3, SHOP OR FIELD FABRICATED PIPE SUPPORT ASSEMBLY MADE OF STEEL CHANNELS AND OTHER COMPONENTS.

INSPECTIONS AND TESTS: 1. TESTING SHALL BE DONE IN THE PRESENCE OF GOVERNING AUTHORITY.

THE COMPONENTS THEREIN WHICH MAKE UP THE PART(S) LIST. ELECTRONIC

MANUFACTURER'S NAME, CATALOG NUMBERS, CUTS, DIAGRAMS AND OTHER

SUCH DESCRIPTIVE DATA AS REQUIRED TO IDENTIFY AND REVIEW THE

VERSION OF SHOP DRAWINGS MAY ALSO BE SUBMITTED TO THE

5. SHOP DRAWINGS SHALL INCLUDE CONTRACTOR'S NAME, JOB ADDRESS,

6. ONE (1) WEEK PRIOR TO FINAL INSPECTION, DELIVER TO THE OWNER

6.1. CERTIFICATION FROM CONTRACTOR THAT ALL EQUIPMENT AND

BEEN PROPERLY INSTALLED, ADJUSTED AND TESTED.

6.2. CERTIFICATION FROM RESPECTIVE MANUFACTURER(S) AUTHORIZED

ARCHITECT IN PDF FORM VIA EMAIL.

ELECTRONICALLY COPIES OF EACH FOLLOWING:

SYSTEM(S) HAVE BEEN PROPERLY INSTALLED, ADJUSTED AND TESTED.

REPRESENTATIVE THAT HOT WATER HEATERS AND SYSTEM(S) HAVE

PROVIDE ALL NECESSARY EQUIPMENT, MATERIAL AND LABOR TO PERFORM 2. FCO (UNFINISHED AREAS): ADJUSTABLE FLOOR CLEANOUT, LACQUERED CAST IRON BODY, SECONDARY BRASS CLOSURE PLUG, SCORIATED COMBINED 2. ROUGHED-IN PLUMBING: THE DRAINAGE AND VENT PIPING SYSTEMS SHALL DUCTILE IRON ROUND COVER AND PLUG TOP ASSEMBLY, STAINLESS STEEL BE TESTED UPON COMPLETION OF ROUGHED-IN PIPING INSTALLATION, BY VANDAL RESISTANT SECURITY SCREWS. USING WATER OR AIR TO PROVE WATERTIGHT. 3. WCO (FINISHED AREAS): LACQUERED CAST IRON CLEANOUT WITH LARGE ACCESS AREA AND THREADED PLUG, STAINLESS STEEL 6 INCH ROUND (SQUARE IN TILED AREAS) COVER AND FRAME ASSEMBLY, STAINLESS STEEL VANDAL RESISTANT SECURITY SCREWS. 3.1. MANUFACTURER: MIFAB SERIES C1460-R6-3-6. 3.2. MANUFACTURER: MIFAB SERIES C1460-S7-3-6 (TILED AREAS).

HARDENED PORTLAND CEMENT CONCRETE WITH PULLOUT, TENSION, AND 3. WATER TEST: WATER TEST SHALL BE APPLIED TO THE DRAINAGE SYSTEM EITHER IN ITS ENTIRETY OR IN SECTIONS AFTER PIPING HAS BEEN ROUGHED-IN. DRAINAGE SYSTEM SHALL NOT BE TESTED WITH LESS THAN TEN (10) FOOT HEAD OF WATER. THE WATER SHALL BE KEPT IN THE SYSTEM OR SECTION BEING TESTED FOR AT LEAST FIFTEEN (15) MINUTES BEFORE INSPECTION STARTS. TESTING OF THE SYSTEM SHALL CONFIRM THAT THE SYSTEM IS TIGHT AT ALL POINTS.

> 4. AIR TEST: AIR TEST SHALL BE MADE BY ATTACHING AN AIR COMPRESSOR TESTING APPARATUS TO A SUITABLE OPENING AFTER CLOSING ALL OTHER INLETS AND OUTLETS TO THE SYSTEM. FORCE AIR INTO THE SYSTEM UNTIL THERE IS A UNIFORM GAUGE PRESSURE OF FIVE (5) PI OR SUFFICIENT TO BALANCE A COLUMN OF MERCURY TEN (10) INCHES IN HEIGHT. PRESSURE SHALL BE HELD WITHOUT INTRODUCTION OF ADDITIONAL AIR FOR A PERIOD OF AT LEAST FIFTEEN (15) MINUTES.

5. WATER SUPPLY SYSTEM: WATER SUPPLY SYSTEM SHALL BE TESTED AND PROVED WATERTIGHT UPON COMPLETION OF A SECTION OR THE ENTIRE SYSTEM. SYSTEM SHALL BE TESTED UNDER A WATER PRESSURE OF AT LEAST 1.5 TIMES THE SYSTEM PRESSURE, BUT AT LEAST 100 PSI AT A MINIMUM BY AIR OR WATER. TESTING PRESSURE SHALL BE MAINTAINED FOR A LEAST FIFTEEN (15) MINUTES AND WATER USED FOR TEST SHALL BE FROM POTABLE WATER.

. NON-CHLORINATED WATER SUPPLY: WATER SUPPLY SYSTEM SHALL BE

FLUSHED WITH CLEAN, POTABLE WATER UNTIL NO DIRTY WATER APPEARS AT

. IDENTIFICATION FOR ALL PIPING SYSTEM(S) SHALL COMPLY WITH ANSI A13.1

2. PIPING SYSTEM(S): IDENTIFICATION SHALL INCLUDE THE CONTENTS OF THE

TWENTY-FIVE (25) FEET AND AT EACH POINT WHERE PIPING PASSES

SHALL BE DISCERNIBLE AND CONSISTENT THROUGHOUT THE BUILDING.

. EQUIPMENT: IDENTIFICATION SHALL INCLUDE SYSTEM NUMBER, CAPACITY,

1. AT PROJECT CLOSE-OUT, CONTRACTOR SHALL SUBMIT RECORD DRAWINGS

ACCEPTANCE IN ELECTRONIC FORM OR ADOBE ACROBAT "PDF" FORMAT

3. CONTRACTOR IS NOT ALLOWED TO USE THE CONTRACT DOCUMENTS FOR

SUBMITTALS SHALL BE SÜBMITTED FOR RECORDS PRIOR TO FINAL

(CERTIFIED OR APPROVED) ALSO KNOWN AS "AS-BUILT" DRAWINGS. LAYOUT

VIEWABLE FROM ADOBE. RECORD DATA EQUIPMENT, FIXTURE AND RELATED

APPURTENANCES MAY BE SUBMITTED AS ELECTRONIC ADOBE ACROBAT "PDF"

FLOW, RATE, STATIC PRESSURE, PUMP HEAD, HORSEPOWER, VOLTAGE, ETC.

IDENTIFICATION SHALL BE REPEATED AT MAXIMUM INTERVALS OF

PIPING SYSTEM(S) AND AN ARROW INDICATING THE DIRECTION OF FLOW.

THROUGH A WALL, FLOOR OR ROOF. COLOR OF THE PIPE IDENTIFICATION

FOR SIZE OF LETTERING AND BACKGROUND COLOR FIELD.

DISINFECTION OF POTABLE WATER SYSTEM:

1. DISINFECT AND FLUSH POTABLE WATER SYSTEM PER LOCAL PLUMBING. 1. THERMAL INSULATION MATERIALS SHALL MEET THE PROPERTY REQUIREMENTS BUILDING, AND HEALTH DEPARTMENT REQUIREMENTS. OF THE FOLLOWING SPECIFICATIONS AS APPLICABLE TO THE SPECIFIC

THE POINT OF OUTLET.

RECORD DRAWING SUBMITTALS:

2.1. OWNER.

LABEL AND IDENTIFICATION:

1.1. ASTM C547, ASTM C585, AND ASTM C1136. 1. CHLORINATED WATER SUPPLY: IF WATER SUPPLY SERVING SYSTEM IS CHLORINATED FROM COMMUNITY WATER SYSTEM, SYSTEM SHALL BE FLUSHED 2. INSULATION MATERIALS SHALL MEET THE MINIMUM REQUIREMENTS OF WITH CLEAN, POTABLE WATER UNTIL NO DIRTY WATER APPEARS AT THE ASHRAE 90.1 (LATEST EDITION). POINT OF OUTLET.

3. INSULATION MATERIALS SHALL HAVE A MAXIMUM FLAME SPREAD INDEX OF 25 AND A MAXIMUM SMOKE DEVELOPED INDEX OF 50 WHEN TESTED IN ACCORDANCE WITH THE FOLLOWING TESTING STANDARDS:

4. THERMAL HANGER SHIELD INSERTS: 100-PSIG MINIMUM, COMPRESSIVE

STRENGTH INSULATION INSERT ENCASED IN SHEET METAL SHIELD.

MATERIALS WHERE USED.

BLACK AND GALVANIZED.

ZONE PROJECT IS BEING CONSTRUCTED.

7. MISCELLANEOUS MATERIALS:

PRODUCT OR END USE:

INSULATION:

5.1. POWDER ACTUATED FASTENERS: THREADED STEEL STUD, FOR USE IN

5.2. MECHANICAL EXPANSION ANCHORS: INSERT WEDGE TYPE. ZINC COATED

CONCRETE WITH PULLOUT, TENSION, AND SHEAR CAPACITIES

6. EQUIPMENT SUPPORTS: WELDED, SHOP OR FIELD FABRICATED EQUIPMENT

7.1. STRUCTURAL STEEL: ASTM A 46/A 36M, STEEL PLATES, AND BARS;

HYDRAULIC-CEMENT, NON-SHRINK AND NON-METALLIC GROUT;

7.3. PROPERTIES: NON-STAINING. NON-CORROSIVE, AND NON-GASEOUS.

8. PROVIDE SEISMIC BRACING OF PIPING BASED ON SEISMIC CATEGORY OF

7.2. GROUT: ASTM C 1107. FACTORY—MIXED AND PACKAGED. DRY.

SUITABLE FOR INTERIOR AND EXTERIOR APPLICATIONS.

7.4. DESIGN MIX: 5000-PSI, 28-DAY COMPRESSIVE STRENGTH.

SUPPORT MADE FROM STRUCTURAL STEEL SHAPES.

OR STAINLESS STEEL, FOR USE IN HARDENED PORTLAND CEMENT

SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING

APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE

3.1. ASTM E84, UL 723 AND NFPA 255.

INSULATION SHALL BE FIBERGLASS PIPE INSULATION, ONE-PIECE, HINGED SECTION, WITH FACTORY APPLIED WHITE POLYMER FACING, TWO-COMPONENT ADHESIVE CLOSURE SYSTEM, AND MATCHING PRESSURE SENSITIVE TAPE MANUFACTURER'S DATA REGARDING THICKNESS CONSTRAINTS IN RELATION TO OPERATING TEMPERATURE SHALL BE FOLLOWED. STAPLING IS NOT ALLOWED TO COMPLETE THE CLOSURE.

5. MOLDED CLOSED CELL POLYETHYLENE FOAM INSULATION IN NOT ALLOWED OR APPROVED.

<u>PIPE TYPE</u>	INSULATION THICKNESS
	(INCHES)
DOMESTIC COLD WATER PIPE 1 INCH AND SMALLER PIPE 1-1/4 INCH TO 2 INCH PIPE 2-1/2 INCH AND LARGER	1/2 3/4 1
DOMESTIC HOT WATER PIPE 2 INCH AND SMALLER PIPE 2-1/2 INCH LARGER	1 1-1/2
DOMESTIC HOT WATER (CIRCULATING PIPE 2 INCH AND SMALLER	1 ,

PIPING MATERIALS:

 DOMESTIC WATER DISTRIBUTION (3 INCH AND SMALLER): HARD COPPER TUBE, ASTM B88, TYPE L, WATER TUBE, DRAWN TEMPER. PRESSURE FITTINGS: ASME B16.18 OR B16.22.

2. PROVIDE RECORD SUBMITTALS AS FOLLOWS:

BRONZE FLANGES: ASME B16.24, CLASS 150. 1.3. UNIONS: MSS SP-123. 1.4. GROOVED-END FITTINGS: ASTM B75 COPPER TUBE OR ASTM B584 BRONZE CASTINGS.

SOIL, WASTE, VENT & STORM PIPING . ALL PIPING SHALL BE SCHEDULE 40 PVC PIPING WIYH DRAINAGE PIPING.

PLUMBING GENERAL NOTES 1. PLUMBING GENERAL NOTES ON THESE DRAWINGS ARE A PART OF THE PLUMBING SPECIFICATIONS TO THE SAME EXTENT AS IF WRITTEN HEREIN

2. ALL WORK AND MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF LOCAL AND STATE GOVERNING CODES, ORDINANCES AND HEALTH DEPARTMENT REGULATIONS.

3. THE INTENT OF THESE DRAWINGS IS TO FURNISH THE OWNER WITH A PLUMBING INSTALLATION READY FOR USE AND COMPLETE IN EVERY ASPECT. 4. FURNISH AND INSTALL A COMPLETE AND OPERABLE SOIL, WASTE AND VENT SYSTEM WITH FINAL CONNECTIONS TO ALL FIXTURES, APPLIANCES, DRAINS, EQUIPMENT, STRUCTURES, ETC., REQUIRING DRAINAGE. CONNECTIONS

THERETO TO CONVEYANCE TO THE PUBLIC SEWER SYSTEM. 4.1. HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED AT UNIFORM SLOPES NOT LESS THAN THE FOLLOWING: 4.1.1. PIPING LESS THAN FOUR (4) INCHES: 1/4 INCH PER LINEAL FOOT. 4.1.2. PIPING FOUR (4) INCHES AND LARGER: 1/8 INCH PER LINEAL

4.1.3. UNLESS OTHERWISE INDICATED ON DRAWINGS, UNDERGROUND 4.1.4. PIPING SHALL BE A MINIMUM OF FOUR (4) INCHES.

4.1.5. VENT PIPING SHALL BE MINIMALLY SLOPED BACK TO DRAINAGE

FURNISH AND INSTALL A COMPLETE AND OPERABLE DOMESTIC WATER DISTRIBUTION SYSTEM WITH FINAL CONNECTIONS TO ALL PLUMBING FIXTURES. APPLIANCES. EQUIPMENT. WALL HYDRANTS. ETC.. REQUIRING DOMESTIC WATER CONNECTIONS THERETO FROM THE DOMESTIC WATER

8. FURNISH AND INSTALL ALL PLUMBING FIXTURES, EQUIPMENT, APPLIANCES COMPLETE WITH ALL NECESSARY AND REQUIRED TRIMMINGS, ACCESSORIES COMPONENTS AND APPURTENANCES INCLUDING BUT NOT LIMITED TO P-TRAPS, BACKFLOW DEVICES, AIR CHAMBERS, STOPS AND SUPPLIES, HANGERS, SUPPORTS, ANCHORS, CARRIERS, TAILPIPES, TEMPERING VALVES,

9. ALL PIPING SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS OF THE BUILDING, OR AS APPROVED BY THE ARCHITECT. PLACE ALL HANGERS ON EIGHT (8) FOOT CENTERS.

9.1. PIPES ONE (1) INCH IN DIAMETER OR LESS: SOLID OR SPLIT RING

9.2. PIPES LARGER THAN ONE (1) INCH: STANDARD WEIGHT CLEVIS INSULATED PIPING: SEMI-CIRCULAR SHIELD.

10. CONTRACTOR SHALL PROVIDE ACCESS PANELS TO ACCESS ANY VALVES OR ANY PLUMBING ITEMS REQUIRING ACCESS FOR MAINTENANCE. CONTRACTOR SHALL PROVIDE TO THE GENERAL CONTRACTOR ALL LOCATION AND SIZES OF ACCESS PANELS FOR APPROVAL BY THE ARCHITECT. CONTRACTOR SHALL PROVIDE ACCESS PANELS TO THE GENERAL CONTRACTOR FOR INSTALLATION.

PLUMBING PRODUCTS AND MATERIALS CLEANOUTS:

1. FCO (FINISHED AREAS): ADJUSTABLE FLOOR CLEANOUT, LACQUERED CAST IRON BODY, SECONDARY CLOSURE PLUG, STAINLESS STEEL COMBINED ROUND (SQUARE IN TILED AREAS) COVER AND PLUG TOP ASSEMBLY, STAINLESS STEEL VANDAL RESISTANT SECURITY SCREWS.

1. BALL VALVE (1/2 INCH TO 2-1/2 INCH) FULL PORT OPENING, 2 PIECE BRASS BODY. BLOW OUT PROOF STEM. TFE SEATS. TFE WITH ADJUSTABLE STEM PACKING GLAND, FREE-FLOATING CHROME PLATED BRASS BALL, 100 PERCENT FACTORY TESTED.

1.1. MANUFACTURER: HAMMOND VALVE SERVICE 8300.

2. BALANCING VALVE: DEZINCIFICATION RESISTANT BRASS BODY. BONNET AND TRIM, NON-RISING STEM, SCREWED BONNET, PARABOLIC REGULATING DISK, DOUBLE REGULATING (MEMORY STOP) DEVICE, FLOW MEASUREMENT ACCURACY, SUPPLIED FITTED WITH TWO DUSEAL TEST POINTS, END CONNECTIONS THREADED TO ANSI B1.20 AND SOLDER END TO ANSI B16.18, DRAIN PLUG, PRE-FORMED INSULATION.

FOR ALL FLOOR DRAIN FD-1, FD-2, FD-3(AT MEZZANINE LEVEL) & FD-4 PROVIDE SURE SEAL DRAIN TRAP SEALER MODEL SS3509V OR EQUAL WATERLESS INLINE DRAIN TRAP SEAL CONFORMING ASSE 1072.

> FIELD VERIFICATION Contractor shall verify all figured dimensions and conditions at the job

NW SSI

 $\blacksquare$ 

beginning or fabricating any work. Do not scale these drawings. COPYRIGHT Aria Group Architects, Inc. shall retai all common law, statutory and other reserved rights. These drawings an duplicated, disclosed or otherwis without written consent of Aria Group

Architects, Inc.

site and notify Aria Group Architects

omissions or discrepancies before

Inc. of any dimensional errors,

2021/08/19 ISSUED FOR NO. DATE REMARKS REVISIONS



Drawing Title **PLUMBING** 

Job No. Drawn DM 21-0064

Date SEE PLANS | | 07/26/2021

Sheet No.

COORDINATED SHOP DRAWINGS SHALL BE PROVIDED BY EACH SUBCONTRACTOR AND SHALL CONTAIN A LAYOUT OF ALL DUCTWORK. CONDUIT. PIPING, EQUIPMENT, STRUCTURE, WALLS, CEILING, ETC. AS REQUIRED TO REFLECT FULL COORDINATION ACROSS ALL TRADES AND SHALL BE SUBMITTED FOR REVIEW, COORDINATED DRAWINGS SHALL BE SIGNED OFF BY ALL OTHER TRADES PRIOR TO BEING SUBMITTED FOR REVIEW. PLANS SHALL BE PREPARED AT A MINIMUM OF 1/8" SCALE OR THE SCALE OF THE DESIGN DRAWINGS, WHICHEVER IS LARGER. NO EQUIPMENT SHALL BE INSTALLED WITHOUT APPROVED SHOP

DRAWINGS.

					DRAIN AN	ND CLEAN O	UT SCHEDULE	
TAG	FIN	ISH	PRIMAR	Y STRAINER	OUTLET SIZE	LOCATION	MANUFACTURER AND	DEMA DIZE
IAG	BODY	ТОР	SIZE	TYPE	OUTLET SIZE	LOCATION	MODEL	REMARKS
FD-1	CAST IRON	NICKLE BRONZE	5"	ADJUSTABLE	3"	TOILET ROOMS	JAY R. SMITH# 20005L	PROVIDE WITH FLASHING CLAMP. PROVIDE MECHANICAL TRAP SEAL
FD-2	CAST IRON	NICKLE BRONZE	6"	ADJUSTABLE	3"	KITCHEN & BAR AREA	JAY R. SMITH # 20005L	PROVIDE WITH FLASHING CLAMP & PROVIDE MECHANICAL TRAP SEAL
FD-3	CAST IRON	NICKLE BRONZE	6"	ADJUSTABLE	3"	MECHANICAL ROOM	JAY R. SMITH # 3510	PROVIDE WITH FLASHING CLAMP, 4" ROUND FUNNEL
FD-4	CAST IRON	NICKLE BRONZE	8"	ADJUSTABLE	4"	MECHANICAL ROOM	JAY R. SMITH # 3020	8" ROUND X 3" DEEP CAST IRON BODY WITH ACID RESISTANT ENAMELED INTERIOR WITH FLANGE, FLASHING RING, HALF GRATE & BOTTAM DOME & MECHANICAL TRAP SEAL
FS-1	CAST IRON		12" X 12"	ADJUSTABLE	4"	KITCHEN & BAR AREA	ZURN # Z1900	12" X 12"X 6" DEEP CAST IRON BODY WITH ACID RESISTAN' ENAMELED INTERIOR, HALF GRATE, FLANGE & FLASHING RING.
FS-2	CAST IRON		12" X 12"	ADJUSTABLE	3"	KITCHEN & BAR AREA	ZURN # Z1900	12" X 12"X 6" DEEP CAST IRON BODY WITH ACID RESISTAN' ENAMELED INTERIOR, HALF GRATE, FLANGE & FLASHING RING.
FS-3	CAST IRON		8" X 8"	ADJUSTABLE	3"	KITCHEN & BAR AREA	ZURN # Z1910	8" X 8"X 6" DEEP CAST IRON BODY WITH ACID RESISTANT ENAMELED INTERIOR, HALF GRATE, FLANGE & FLASHING RING
RD-1	CAST IRON	CAST IRON DOME		ADJUSTABLE	4"	ROOF	JAY R. SMITH # 1010	WITH CAST BODY WITH SUMP RECIEVER, UNDERDECK CLAMP, FLASHING RING & CAST IRON DOME
RD-2	CAST IRON	CAST IRON DOME		ADJUSTABLE	6"	ROOF	JAY R. SMITH# 1010	WITH CAST BODY WITH SUMP RECIEVER, UNDERDECK CLAMP, FLASHING RING & CAST IRON DOME
RD-3	CAST IRON	CAST IRON DOME		ADJUSTABLE	8"	ROOF	JAY R. SMITH # 1010	WITH CAST BODY WITH SUMP RECIEVER, UNDERDECK CLAMP, FLASHING RING & CAST IRON DOME
ORD-1	CAST IRON	CAST IRON DOME		ADJUSTABLE	4"	ROOF	JAY R. SMITH # 1070	WITH CAST BODY WITH SUMP RECIEVER, OVERFLOW DAM UNDERDECK CLAMP, FLASHING RING & CAST IRON DOME
ORD-2	CAST IRON	CAST IRON DOME		ADJUSTABLE	6"	ROOF	JAY R. SMITH# 1070	WITH CAST BODY WITH SUMP RECIEVER, OVERFLOW DAM UNDERDECK CLAMP, FLASHING RING & CAST IRON DOME
ORD-3	CAST IRON	CAST IRON DOME		ADJUSTABLE	8"	ROOF	JAY R. SMITH # 1070	WITH CAST BODY WITH SUMP RECIEVER, OVERFLOW DAM UNDERDECK CLAMP, FLASHING RING & CAST IRON DOME
DSN-1	CAST IRON				4"		JAY R. SMITH # 1770	CAST IRON BODY & FLANGE & BIRD SCREEN
DSN-2	CAST IRON				6"		JAY R. SMITH # 1770	CAST IRON BODY & FLANGE & BIRD SCREEN
DSN-3	CAST IRON				8"		JAY R. SMITH # 1770	CAST IRON BODY & FLANGE & BIRD SCREEN
FCO	CAST IRON	NICKLE BRONZE	SEE PLAN	SCORIATED	SEE PLAN	AS SHOWN ON DRAWING	JAY R. SMITH #4020	

	DOMESTIC NATURAL GAS WATER HEATER SCHEDULE											
MARK	STORAGE CAPACITY (GALLONS)	RATE OF RECOVERY (100 F RISE)	GAS INPUT/OUTPUT (BTUH)	GAS SIZE AND PRESSURE (IN. W.C.)	VENT INTAKE/EXHAUST (INCHES)	UNIT EFFICIENCY (%)	UNIT LOCATION	MANUFACTURER & MODEL NO.				
WH-1	1	3.8	199,000	3/4" 4" WC,MN/14" WC,MX	3"/4"	90	MEZZANINE	RINNAI CU199 (QUANITITY 7)				
REMARKS:												

TANKLESS WATER HEATER-RINNAI WALL HUNG PACKAGED RACK-MOUNTED SYSTEM WITH TWO (2), (2) UNIT MODEL TRW02CUI HEATERS AND ONE (1), (3) UNIT TRW03CUI HEATERS PRE-PIPED WITH ALL VALVES AND SPECIALITIES, PROVIDE WITH CONTROL PANELS, ENGINE CONTROL CABLE AND INTERLOCKING WIRING TO CONTROL MULTIPLE HEATERS. PROVIDE WITH COMMON INTAKE AND EXHAUST VENTING PACKAGE (1 COMMON VENTING PACKAGE PER INDIVIDUAL WATER HEATER (7 TOTAL WATER HEATER WITH ROOF TERMINATION ASSEMBLY).

INTALL PER MANUFACTURER RECOMMENDATIONS.

PLUMBING CONTRACTOR SHALL HAVE WATER HEATERS MANUFACTURER'S TECHINICIAN FOR START UP AND INITIAL PROGRAMING OF ALL WATER HEATERS

WATER HEATER SHALL HAVE ASME RATED T&P RELIEF VALVE.

PROVIDE WITH ACID NEUTRALIZATION KIT.

PROVIDE PREFABRICATED CPVC OR PVC CONDENSATE DRAIN & MANIFOLD PIPING.

	DOMESTIC EXPANSION TANK SCHEDULE											
	TANK DIN	MENSIONS	TANK	SYSTEM								
MARK	RK DIAMETER LENGTH (INCHES)		CAPACITY (GALLONS)	CONNECTION SIZE (INCHES)	CHARGING VALVE	EMPTY WEIGHT (LBS)	VESSEL CERT.	UNIT SERVES	REMARKS			
TET-1	1 8" 13" 2		2	3/4"		5	Х	WH-1	THERM-X-TROL MODEL #ST-5			

				DOMESTIC H	AW TOF	TER	CIRCULA	TION F	PUMP SCHED	ULE			
	PUMP CHAP	RACTERISTICS		HOT WATER	ELECT	RICAL C	HARACTERIIS	STICS					
MARK	FLOW (GPM)	HEAD (FT./PSI)	PUMP STYLE	SERVICE TEMPERATURE (DEGREES, F.)	MOTOR HP	RPM	VOLT/ PH/ HZ	AMPS	UNIT LOCATION	REMARKS			
RP-1	10	10	IN-LINE CIRC	120-140	0.08		120/1/60		WAIER HEAIER	GRUNDFOS #UPS 26-99(S) F, 3 SPEED, CIRCULATION PUMP, CAST IRON BODY INLINE PUMP BRASS FITTED WITH HONEYWELL L6006C AQUATSTAT & TIMER			

MARK	PUMP CHAI	RACTERISTICS	PUMP STYLE	ELECTRICAL CHARACTERIISTICS			UNIT	REMARKS
WAIN	FLOW (GPM)	HEAD (FT./PSI)	FOWIF STILL	MOTOR HP	RPM	VOLT/PH /HZ	LOCATION	KLIWAKKO
PP-1	90	70FT/30 PSI	FLOOR MOUNTED	3.00		208/3/60	SPRINKLER ROOM	METROPOLITAN "METRO VARIPAC" MODEL HES-VS-200S-20B SIMPLEX VARIABLE-SPEED PUMP SYSTEM, DESIGNED FOR A DISCHARGE PRESSUF BOOST OF 30-PSI, ABOVE THE NET SUCTION PRESSURE. WITH ONE (1) 15 GALLON ADJACENT HYDRO-PNEUMATIC TANK, ONE (1) LOCAL SUCTION-PRESSURE TRANSDUCER, ONE (1) LOCAL DISCHARGE-PRESSURE TRANSDUCER, AND ONE (1) VARIABLE FREQUENCY INVERTOR WITH INTEGRAL POWER-DISCONNECT SHALL BE PROVIDED. THE PUMP SHALL OF THE ALL-STAINLESS-STEEL END-SUCTION TYPE, AND 80-FT MINIMUM SHUT OFF HEAD @ ZERO-GPM. IT SHALL BE COUPLED TEFC PREMIUM-EFFICIENCY MOTOR. THE PIPING SHALL INCLUDE A LUG-STYLE BUTTERFI VALVE ON THE INLET & OUTLET, AS WELL AS A SILENT CHECK VALVE ON THE DISCHARGE. THE SYSTEM SHALL BE FACTORY FLOW-TESTED & CERTIFIED.

		PLUMBING I	FIXTU	RE SC	CHEDU	JLE (F	FINAL FIXTUI	RE SELECTION SHALL BE BY OWNE	ER)		
TAG NO.	QTY.	DESCRIPTION			ECTION		ACCESSORIES	MANUFACTURER & MODEL NO.	COMMENTS		
WC-1	3	WATER CLOSET, ELONGATED FRONT, FLUSH VALVE TYPE, (1.6 GPF)	WASTE 4"	2"	1 1/4"	НОТ	FIXTURE	AMERICAN STANDARD MADERA # 2234.001	FLOOR MOUNTED		
							VALVE	TOTO TET1LA32#CP	HYDROPOWER SELF-GENERATING SENSOR OPERATED WITH MANUAL OVERRIDE BUTTON		
							SEAT	BEMIS 2155SCT	ANITMICROBIALLY TREATED, OPEN FRONT SEAT LESS COVER		
WC-2	5	WATER CLOSET, ELONGATED FRONT, FLUSH VALVE TYPE, ADA, (1.6 GPF)	4"	2"	1 1/4"		FIXTURE	AMERICAN STANDARD MADERA # 3043.001	FLOOR MOUNTED		
							VALVE	TOTO TET1LA32#CP	HYDROPOWER SELF-GENERATING SENSOR OPERATED WITH MANUAL OVERRIDE BUTTON		
							SEAT	BEMIS 2155SCT	ANITMICROBIALLY TREATED, OPEN FRONT SEAT LESS COVER		
UR-1	1	URINAL (.5 GPM)	2"	1 1/2"	1"		FIXTURE	AMERICAN STANDARD WASHBROOK # 6590.001	WALL MOUNTED MOUNTED		
							VALVE	TOTO TEU1LA12#CP	HYDROPOWER SELF-GENERATING SENSOR OPERATED WITH MANUAL OVERRIDE BUTTON		
							CARRIER	JAY R. SMITH	COMMERCIAL HEAVY DUTY CHAIR CARRIER		
UR-2	1	URINAL ADA (.5 GPM)	2"	1 1/2"	1"			AMERICAN STANDARD WASHBROOK # 6590.001	WALL MOUNTED MOUNTED		
							VALVE	TOTO TEU1LA12#CP	HYDROPOWER SELF-GENERATING SENSOR OPERATED WITH MANUAL OVERRIDE BUTTON		
							CARRIER	JAY R. SMITH	COMMERCIAL HEAVY DUTY CHAIR CARRIER		
L-1	6	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	FIXTURE	KOHLER LADENA # K2215	UNDERMOUNT WITH OVERFLOW & MOUNTING CLAMPS		
							TRIM	TOTO TEL101-D10E	HYDROPOWER SELF-GENERATING SENSOR OPERATED WITH MANUAL OVERRIDE BUTTON WITH THERMOSTATIC MIXING VALVE		
							SUPPLIES	SUPPLIES AND STOPS-MCGUIRE OR APPROVED EQUAL			
							INSULATION	TRUEBROLAV GUARD 2 PIPING COVERINGS	PROVIDE FOR HOT WATER SUPPLY AND DRAIN/TRAP ASSEMBLY		
							TRAP	SUPPLIES AND STOPS-MCGUIRE OR APPROVED EQUAL	CAST GRID DRAIN WITH OFF SET P TRAP		
L-2	2	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	FIXTURE	AMERICAN STANDARD LUCERENE # 0355.027	WALL MOUNTED WITH FAUCET HOLE 4" ON CENTER		
							FAUCET	ZURN Z81104-XL	CENTERSET WITH WRIST BLADE		
							SUPPLIES	SUPPLIES AND STOPS-MCGUIRE OR APPROVED EQUAL			
							TRAP	SUPPLIES AND STOPS-MCGUIRE OR APPROVED EQUAL	CAST GRID DRAIN WITH OFF SET PTRAP		
						CARRIER	JAY R. SMITH	COMMERCIAL HEAVY DUTY CHAIR CARRIER			
							STRAINER	CAST GRID DRAIN			
Me 4	4	MOD SINK	2"	2"	3/4"	3/4"	EIVTUDE	FIAT TERRAZZO MOP SERVICE BASIN SB-	20" V 20" V 8" LIIOU WITH DRAIM OTRAINED		
MS-1	1	MOP SINK	3"	2"	3/4"	3/4"	FIXTURE FAUCET	3030 ZURN Z843M1-XL # 305-VBCP	30" X 30" X 6" HIGH WITH DRAIN STRAINER WITH VACUUM BREAKER		
								FIAT #832AA (HOSE & HOSE BRACKET); #833AA (SILICONE SEALANT) & STAINLESS STEEL WALL GUARD	WITH WASSON BILLAREN		

TAG	QTY.	DESCRIPTION		CONN	ECTION		ACCESSORIES	MANUFACTURER & MODEL NO.	COMMENTS
NO.			WASTE	VENT	COLD	НОТ			
VC-1		WATER CLOSET, ELONGATED FRONT, FLUSH VALVE TYPE, (1.6 GPF)	4"	2"	1 1/4"		FIXTURE	AMERICAN STANDARD MADERA # 2234.001	FLOOR MOUNTED
							VALVE	TOTO TET1LA32#CP	HYDROPOWER SELF-GENERATING SENSOR OPERATED WITH MANUAL OVERRIDE BUTTON
							SEAT	BEMIS 2155SCT	ANITMICROBIALLY TREATED, OPEN FRONT SEAT LESS COVER
VC-2	ויי	WATER CLOSET, ELONGATED FRONT, FLUSH VALVE TYPE, ADA, (1.6 GPF)	4"	2"	1 1/4"		FIXTURE	AMERICAN STANDARD MADERA # 3043.001	FLOOR MOUNTED
							VALVE	TOTO TET1LA32#CP	HYDROPOWER SELF-GENERATING SENSOR OPERATED WITH MANUAL OVERRIDE BUTTON
							SEAT	BEMIS 2155SCT	ANITMICROBIALLY TREATED, OPEN FRONT SEAT LESS COVER
JR-1	1	URINAL (.5 GPM)	2"	1 1/2"	1"		FIXTURE	AMERICAN STANDARD WASHBROOK # 6590.001	WALL MOUNTED MOUNTED
							VALVE	TOTO TEU1LA12#CP	HYDROPOWER SELF-GENERATING SENSOR OPERATED WITH MANUAL OVERRIDE BUTTON
							CARRIER	JAY R. SMITH	COMMERCIAL HEAVY DUTY CHAIR
JR-2	R-2 1 URINAL ADA	URINAL ADA (.5 GPM)	2"	1 1/2"	1"		FIXTURE	AMERICAN STANDARD WASHBROOK# 6590.001	WALL MOUNTED MOUNTED
							VALVE	TOTO TEU1LA12#CP	HYDROPOWER SELF-GENERATING SENSOR OPERATED WITH MANUAL OVERRIDE BUTTON
							CARRIER	JAY R. SMITH	COMMERCIAL HEAVY DUTY CHAIR CARRIER
L-1	6	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	FIXTURE	KOHLER LADENA # K2215	UNDERMOUNT WITH OVERFLOW & MOUNTING CLAMPS
							TRIM	TOTO TEL101-D10E	HYDROPOWER SELF-GENERATING SENSOR OPERATED WITH MANUAL OVERRIDE BUTTON WITH THERMOSTATIC MIXING VALVE
							SUPPLIES	SUPPLIES AND STOPS-MCGUIRE OR APPROVED EQUAL	
							INSULATION	TRUEBROLAV GUARD 2 PIPING COVERINGS	PROVIDE FOR HOT WATER SUPPLY AND DRAIN/TRAP ASSEMBLY
							TRAP	SUPPLIES AND STOPS-MCGUIRE OR APPROVED EQUAL	CAST GRID DRAIN WITH OFF SET P TRAP
L-2	2	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	FIXTURE	AMERICAN STANDARD LUCERENE # 0355.027	WALL MOUNTED WITH FAUCET HOLE 4" OF CENTER
							FAUCET	ZURN Z81104-XL	CENTERSET WITH WRIST BLADE
							SUPPLIES	SUPPLIES AND STOPS-MCGUIRE OR APPROVED EQUAL	
							TRAP	SUPPLIES AND STOPS-MCGUIRE OR APPROVED EQUAL	CAST GRID DRAIN WITH OFF SET P TRAP
							CARRIER	JAY R. SMITH	COMMERCIAL HEAVY DUTY CHAIR CARRIER
							STRAINER	CAST GRID DRAIN	
//S-1	1	MOP SINK	3"	2"	3/4"	3/4"	FIXTURE	FIAT TERRAZZO MOP SERVICE BASIN SB-	  30" X 30" X 6" HIGH WITH DRAIN STRAINER
1	<u>'</u>		FAUCET	3030 ZURN Z843M1-XL # 305-VBCP	WITH VACUUM BREAKER				
								FIAT #832AA (HOSE & HOSE BRACKET); #833AA (SILICONE SEALANT) & STAINLESS STEEL WALL GUARD	

PLUMBING SYSTEM	COPPER / COPPER ALLOY TUBING AND FITTINGS TYPE "L"	CAST (DUCTILE) IRON WATER PIPE AND FITTINGS	CAST IRON SOIL PIPE AND FITTINGS	POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS	REMARKS		
	(ASTM B 88)	(ASTM A 377)	(ASTM A 74) (CISPI 301)	(ASTM D 2665)			
		WATERS	UPPLY SYSTEM				
SERVICE WATER SUPPLY	х				DUCTILE IRON WATER PIPING AND FITTING, AWWA 6151, CLASS 56, CEMENT MORTAR LINING C104		
BUILDING DISTRIBUTION WATER SUPPLY	Х				FOR UNDER GROUND PIPING PROVIDE TYPE K PIPING		
		PLUMBING DI	RAINAGE SYSTEMS				
SERVICE SANITARY SEWER & KITCHEN WASTE	X		X	X	CAST IRON NO HUB PIPING WITH STAINLESS STEEL FITTIN		
BUILDING SANITARY WASTE SEWER & KITCHEN WASTE			х	х	CAST IRON NO HUB PIPING WITH STAINLESS STEEL FITTIN		
		PLUMBING	VENT SYSTEMS				
BUILDING SANITARY WASTE VENT			х	х	COPPER TYPE L WITH DRAINAGE FITTING ORCAST IRON NO HUB PIPING WITH STAINLESS STEEL FITTING		
		STORM WATER	DRAINAGE SYSTEMS				
SERVICE STORM DRAINAGE			x	X	CAST IRON NO HUB PIPING WITH STAINLESS STEEL FITTIN		
BUILDING STORM DRAINAGE UNDERGROUND			Х	Х	CAST IRON NO HUB PIPING WITH STAINLESS STEEL FITTIN		

PUBLIC	OCCUPANCY USE:				
QTY.	FIXTURE/EQUIPMENT	PRI	PUB	WSFU/UNIT	TOTAL WSFU
8	WATER CLOSET, FLUSH VALVE		Х	10	80
2	URINAL		Х	5	10
8	LAVATORY		Х	2	16
1	KITCHEN SINK( 2 FAUCET)		Х	6	6
5	KITCHEN SINK (1 FAUCET)		Х	3	15
4	BAR SINK		х	2	8
9	HAND SINK		х	2	18
1	DISHWASHER		Х	6	6
3	GLASS WASHER		Х	3	9
4	NON FREEZE SILL COCK		Х	5	20
1	MOP BASIN		Х	3	3
1	COFFEE MAKER		Х	0.25	0.25
1	TEA MAKER		Х	0.25	0.25
2	GLASS FILLER		Х	0.25	0.5
1	ICE MAKER		Х	1	1
	MISC.				7
		тота	L PUBLIC	FIXTURE UNITS:	200
		FL	OW RAT	E, TOTAL (GPM):	90
		SEF	RVICE PIF	PE SIZE, INCHES:	2 1/2"
		PRESSURE LO	SS (PSI/1	00'-0" OF PIPE):	4
		V	ELOCITY	(FEET/SECOND):	5

3. THE CONTRACTOR MAY PROVIDE ALTERNATE MATERIAL IF THE FOLLOWING IS PROVIDED:

ADDITIONAL COST TO PROVIDE ALTERNATE MATERILAS THAT MEET LOCAL CODES.

THE INITIAL 10 FEET OF DRAINAGE TRAPS & PIPING SHALL BE CAST IRON.

a. THE CONTRACTOR SHALL SUBMIT (WITH BASE BID) A LIST OF MATERIALS TO BE USED IN THIS PROJECT. b. THE CONTRACTOR SHALL STATE THE MATERIAL USED WILL MEET LOCAL CODES, AND THERE WILL BE NO

4. AT DRAIN RECEPTOR OF THE FOLLING EQUIPMENT (DISHWASHER, KETTLE DRAIN, KETTLE, PASTA COOKER & STEAMER):

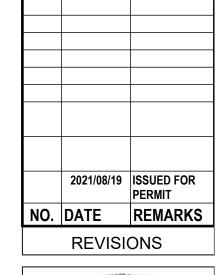


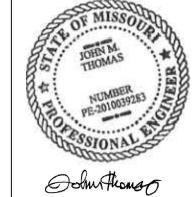
540 NW CHIPMAN ROAD LEE'S SUMMIT, MO 64086

FIELD VERIFICATION Contractor shall verify all figured dimensions and conditions at the job site and notify Aria Group Architects,
Inc. of any dimensional errors,
omissions or discrepancies before

beginning or fabricating any work. Do

not scale these drawings. COPYRIGHT Aria Group Architects, Inc. shall retain all common law, statutory and other reserved rights. These drawings and related documents shall not be duplicated, disclosed or otherwise without written consent of Aria Group Architects, Inc.





SCHEDULES

21-0064

COORDINATED SHOP DRAWINGS SHALL
BE PROVIDED BY EACH SUBCONTRACTOR
AND SHALL CONTAIN A LAYOUT OF ALL
DUCTWORK, CONDUIT, PIPING, EQUIPMENT,
STRUCTURE, WALLS, CEILING, ETC. AS

REQUIRED TO REFLECT FULL COORDINATION
ACROSS ALL TRADES AND SHALL BE
SUBMITTED FOR REVIEW. COORDINATED DRAWINGS

SHALL BE SIGNED OFF BY ALL OTHER TRADES

PRIOR TO BEING SUBMITTED FOR REVIEW.
PLANS SHALL BE PREPARED AT A MINIMUM
OF 1/8" SCALE OR THE SCALE OF THE

DESIGN DRAWINGS, WHICHEVER IS LARGER. NO EQUIPMENT SHALL BE INSTALLED WITHOUT APPROVED SHOP DRAWINGS.

Date SEE PLANS | 07/26/2021

0" | 0' - 0" | 0" | 0' - 0" | 0" | 0' - 0" | 0" | 0' - 0" | 0"

Yes | 1 | C23 | 1 | WATER SOFTNER SYSTEM

## **PLUMBING NOTES (DIVISION 22)**

1. INSTALL KEC (SECTION 114000) FURNISHED FAUCET(S)

0.0 Btu/h

2. INSTALL KEC (SECTION 114000) FURNISHED TWIST WASTE/LEVER(S).

0' - 0"

- 3. INSTALL KEC (SECTION 114000) FURNISHED HAND SINKS PER ADA REQUIREMENTS. PROVIDE AND INSTALL ALL NECESSARY HARDWARE FOR FINAL CONNECTION.
- 4. INSTALL KEC (SECTION 114000) FURNISHED QUICK DISCONNECT(S) & RESTRAINING DEVICE(S) PER MANUFACTURER'S RECOMMENDATIONS
- 5. INSTALL KEC (SECTION 114000) FURNISHED FLOOR TROUGH(S).
- 6. EXTEND AND/OR CONNECT DRAIN(S) LINES WITH HARD COOPER. DRAIN LINES TO RUN TIGHT TO WALL
- 7. MANIFOLD DRAINS TO SINGLE CONNECTION.
- 8. FURNISH AND INSTALL BALL VALVE IN DRAIN LINE. VALVE TO BE IN EASILY ACCESSIBLE LOCATION.
- 9. INSTALL KEC (SECTION 114000) FURNISHED WATER FILTER. PIPING FROM FILTER OUTLET TO POINTS OF USE SHALL BE CONCEALED WITHIN WALLS AND CEILINGS. EXTEND DRAIN(S) TO FLOOR SINK/FLOOR DRAIN IF REQUIRED.
- 10. INSTALL KEC (SECTION 114000) FURNISHED SOLENOID VALVE(S), VACUUM BREAKER(S), FLOW CONTROL(S), PRESSURE REGULATOR(S), AND WATER INLET(S).
- 11. CONNECT MIN. 180°F HOT WATER SUPPLY FROM BOOSTER HEATER OUTLET TO DISHWASHER INLET. INSTALL TEMPERATURE PRESSURE GAUGES AND REGULATOR. CONNECT
- BOOSTER HEATER DRAINS IN HARD COPPER TO FLOOR SINK/DRAIN. 12. INSTALL KEC (SECTION 114000) FURNISHED DRAIN LINE TEMPERING KIT PER MANUFACTURER'S RECOMMENDATIONS.
- 13. CONNECT DRAIN(S) WITH REFRIGERATION GRADE HARD COPPER USING 1" STANDOFFS. "P" TRAP DRAIN OUTSIDE WALK-IN COMPARTMENT(S). PROVIDE AND INSTALL SLEEVES THRU WALK-IN AND BUILDING WALLS FOR DRAIN LINE(S). FOAM & CAULK AROUND SLEEVES AND DRAIN LINES. WRAP WITH DRAIN LINE HEATER AND INSULATION WHERE SUBJECT TO FREEZING TEMPERATURES.
- 14. INSTALL KEC (SECTION 114000) FURNISHED HOSE REEL, MIXING VALVE, CHROME FITTINGS, VACUUM BREAKER, AND CONTROL VALVE.
- 15. INSTALL KEC (SECTION 114000) FURNISHED FIRE SUPPRESSION SYSTEM GAS SHUT OFF VALVE. MUST BE ACCESSIBLE AND NOT CONCEALED IN WALL OR CEILING.
- 16. PROVIDE GRAY WATER AND SLURRY PIPING TO AND FROM (SECTION 114000) FURNISHED PULPER, TROUGH, AND WATER EXTRACTOR. INSTALL KEC (SECTION 114000)
- FURNISHED TROUGH INLET NOZZLES AND PROVIDE SHUT OFF VALVE AT EACH NOZZLE. 17. VERIFY UTILITIES FOR EXISTING/NIC EQUIPMENT AND PROVIDE FOR AS REQ'D.
- 18. PROVIDE "TEE" IN HOT WATER LINE AND CAP FOR FUTURE INSTALLATION OF CHEMICAL DISPENSING SYSTEM BY OTHERS.

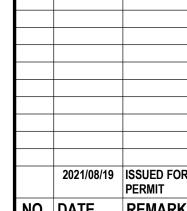
COORDINATED SHOP DRAWINGS SHALL BE PROVIDED BY EACH SUBCONTRACTOR AND SHALL CONTAIN A LAYOUT OF ALL DUCTWORK, CONDUIT, PIPING, EQUIPMENT, STRUCTURE, WALLS, CEILING, ETC, AS REQUIRED TO REFLECT FULL COORDINATION ACROSS ALL TRADES AND SHALL BE UBMITTED FOR REVIEW, COORDINATED DRAWINGS SHALL BE SIGNED OFF BY ALL OTHER TRADES PRIOR TO BEING SUBMITTED FOR REVIEW. PLANS SHALL BE PREPARED AT A MINIMUM OF 1/8" SCALE OR THE SCALE OF THE DESIGN DRAWINGS, WHICHEVER IS LARGER. NO EQUIPMENT SHALL BE INSTALLED WITHOUT APPROVED SHOP DRAWINGS.

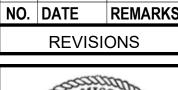


NW CHIPMAN ROAD E'S SUMMIT, MO 64086 540 LEE 

FIELD VERIFICATION Contractor shall verify all figured dimensions and conditions at the job site and notify Aria Group Architects Inc. of any dimensional errors omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

COPYRIGHT Aria Group Architects, Inc. shall reta all common law, statutory and other reserved rights. These drawings and related documents shall not be duplicated, disclosed or otherwise without written consent of Aria Group





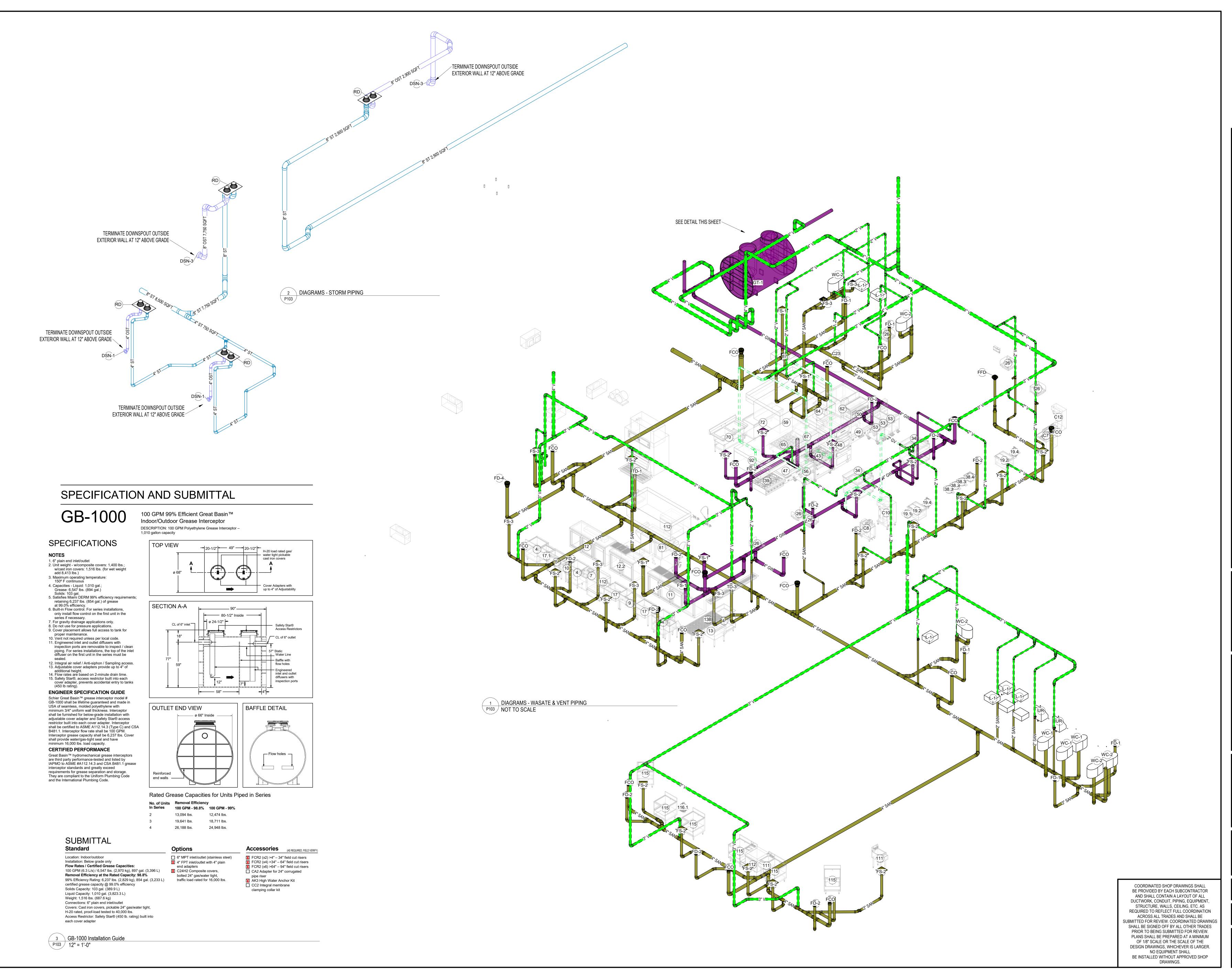


Drawing Title PLUMBING -

SCHEDULES

Job No. 21-0064

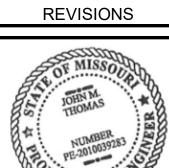
Scale 08/06/2021



FIELD VERIFICATION Contractor shall verify all figured dimensions and conditions at the job site and notify Aria Group Architects, Inc. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings. COPYRIGHT

Aria Group Architects, Inc. shall retain all common law, statutory and other reserved rights. These drawings and related documents shall not be duplicated, disclosed or otherwise without written consent of Aria Group Architects, Inc.

2021/08/19 ISSUED FOR NO. DATE REMARKS



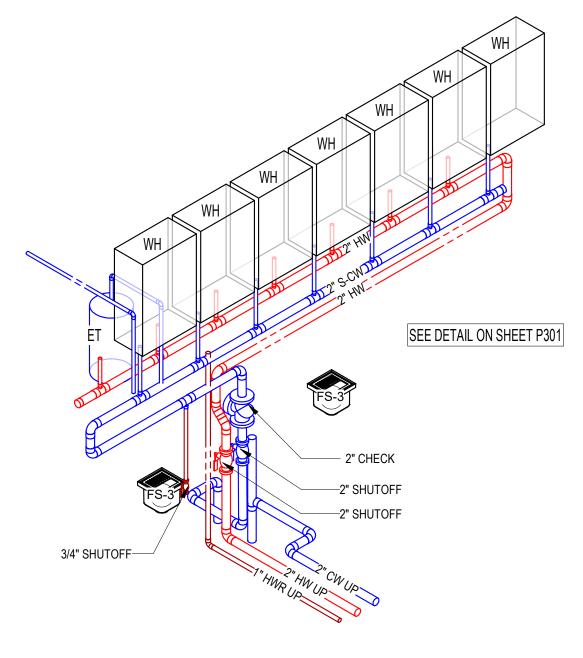
Dobuthonso

Drawing Title DIAGRAMS - WASTE **VENT & STORM PIPING** 

Job No. Drawn 21-0064

Scale 12" = 1'-0"

08/06/2021



(K1) BALL VALVE, TYPICAL AT BRANCH SUPPLY

(K2) BALANCING VALVE, TYPICAL AT RETURN BRANCH

(K3) STAINLESS INLINE DUAL CHECK VALVE, REFER TO SCHEDULE

(K4) HAMMER ARRESTOR, REFER TO SCHEDULE

(K5) COLD AND HOT RPZ FOR CHEMICAL DISPENSER

(K6) PIPE CW/HW TO TMV AT LAV & HAND-SINK, TYP. ALL, REFER TO SCHEDULE

COORDINATED SHOP DRAWINGS SHALL BE PROVIDED BY EACH SUBCONTRACTOR AND SHALL CONTAIN A LAYOUT OF ALL DUCTWORK, CONDUIT, PIPING, EQUIPMENT,
STRUCTURE, WALLS, CEILING, ETC. AS
REQUIRED TO REFLECT FULL COORDINATION
ACROSS ALL TRADES AND SHALL BE SUBMITTED FOR REVIEW. COORDINATED DRAWINGS
SHALL BE SIGNED OFF BY ALL OTHER TRADES
PRIOR TO BEING SUBMITTED FOR REVIEW. PLANS SHALL BE PREPARED AT A MINIMUM OF 1/8" SCALE OR THE SCALE OF THE

DESIGN DRAWINGS, WHICHEVER IS LARGER.

NO EQUIPMENT SHALL
BE INSTALLED WITHOUT APPROVED SHOP
DRAWINGS.



2021/08/19 ISSUED FOR PERMIT NO. DATE REMARKS REVISIONS

FIELD VERIFICATION
Contractor shall verify all figured dimensions and conditions at the job site and notify Aria Group Architects, Inc. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

COPYRIGHT
Aria Group Architects, Inc. shall retain all common law, statutory and other reserved rights. These drawings and related documents shall not be duplicated, disclosed or otherwise without written consent of Aria Group Architects, Inc.

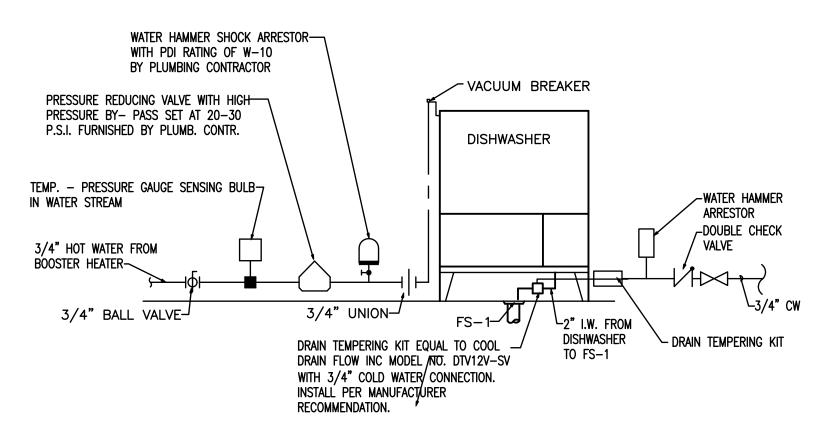
Drawing Title

DIAGRAMS - POTABLE

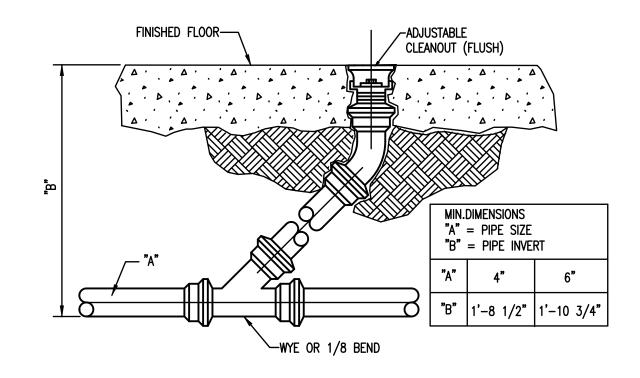
21-0064

08/06/2021 1/8" = 1'-0"

EXPOSED CLEANOUT DETAIL



PLUMBING INSTALLATION OF DISHWASHER



TYPICAL CLEANOUT TO FINISHED FLOOR

TEE BRANCH W/ BRASS C.O. PLUG

CLEANOUT AT BASE OF RISER DETAIL n.t.s.

FLOOR SINK

NIKALOY GRATE

FLOOR DRAIN DETAIL
N.T.S.

W/BUCKET STRAINER

FLOOR SINK DETAIL n.t.s.

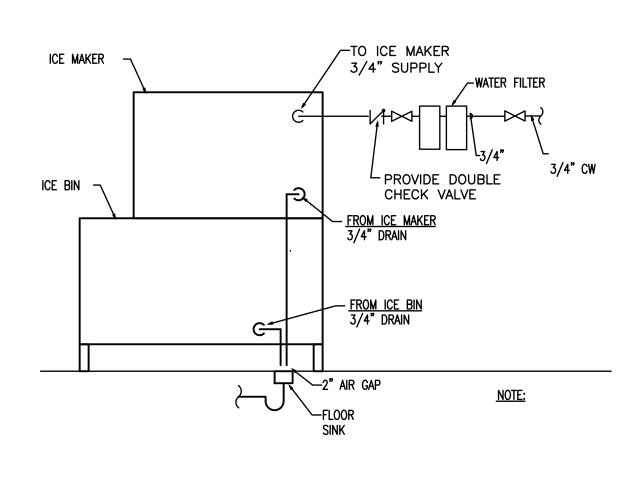
"A" = PIPE SIZE

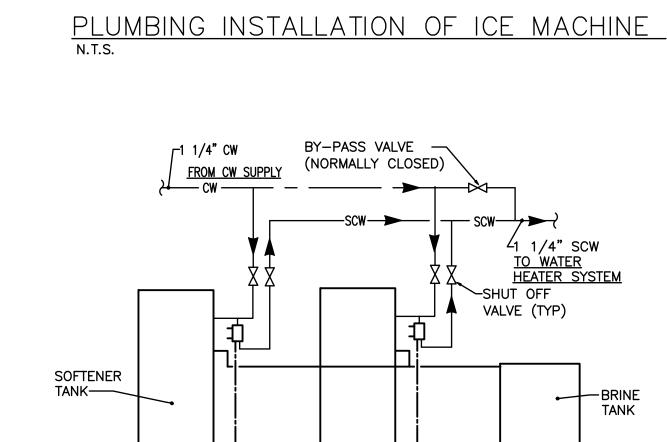
MINIMUM DIMENSIONS

"B" 3 1/2" 4 1/2"

✓MIN 1/2" ABOVE FLOOR

C.I. PIPE—





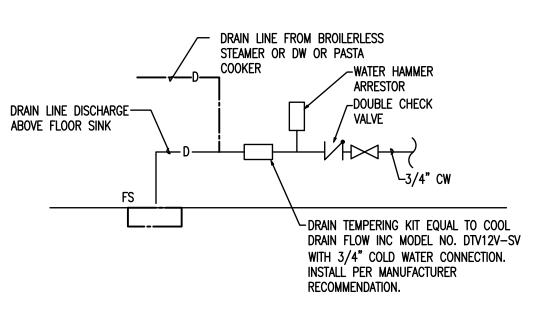
4" CONCRETE -PAD

WATER SOFTENER SYSTEM NOTES:
- INSTALLATION SHALL BE PER MNFR'S RECOMMENDATIONS AND CODE REQUIREMENTS.

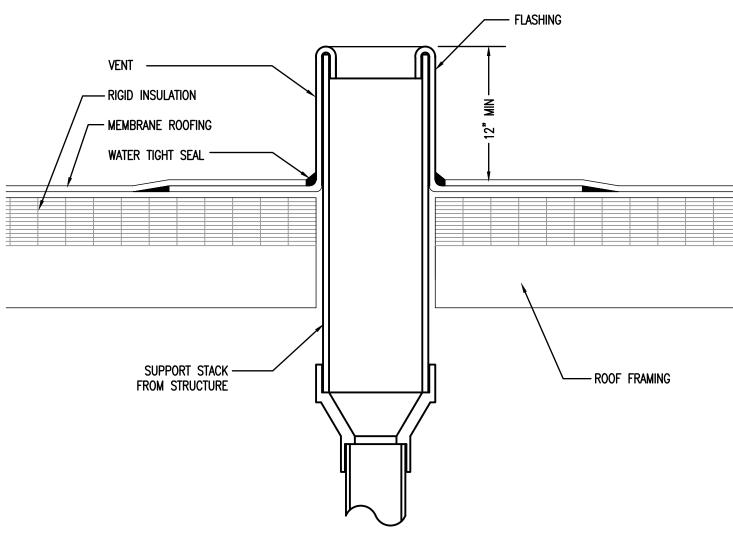
BACKWASH DRAIN

FROM SOFTENER.

WATER SOFTENER PIPING DIAGRAM



DRAIN TEMPERING VALVE PIPING DETAIL
NTS



CO2/SODA/BEER LINES BY

2"/4"/6"/8" SCHEDULE 40 PVC ELECTRICAL CONDUIT BY DIV. 22

WALL BY ARCH. --TRADES - VERIFY W/

ARCHITECT

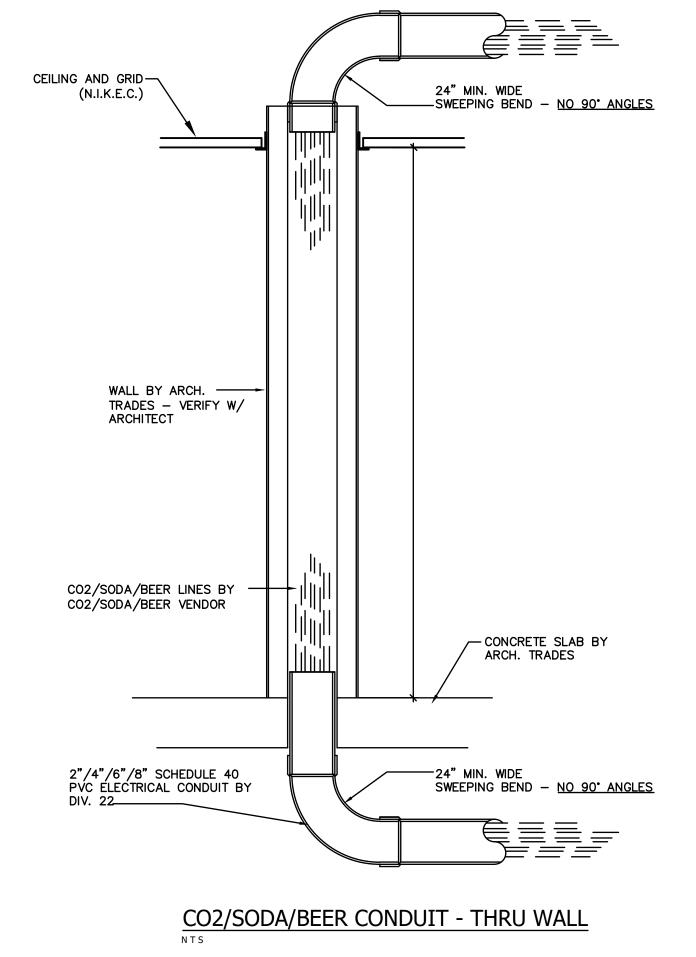
CEILING AND GRID-

(N.I.K.E.C.)

CO2/SODA/BEER CONDUIT - FROM FLOOR

CO2/SODA/BEER VENDOR

VENT THRU ROOF DETAIL



PROVIDE MINIMUM DIA. AS DESCRIBED IN ARTICLE 347 OF THE "NATIONAL ELECTRICAL CODE" TO MEET UL STD. 651 "NEMA" SPEC. TC-2, PVC DUCT & SWEEP ELBOWS. DIAMETER TO BE AS INDICATED WITH MIN. RADIUS OF 24". (PLUMBING STYLE FACTORY ELLS, ARE NOT ACCEPTABLE)

TANK INLET

WASTE COOKING OIL TANK

CONTROL PANEL

CONDUIT TO BE CAPPED AND SEALED AT BOTH ENDS DURING FURTHER CONSTRUCTION. SODA LINE INSTALLERS TO TRIM EXPOSED ENDS TO 7" AFF DURING PRODUCT LINE INSTALLATION. AFTER PRODUCT LINES ARE INSTALLED, THE OPEN ENDS ARE TO BE FILLED & SEALED (WATERTIGHT) APPROXIMATELY 2" TO 4" AT EACH END, ACCORDING TO NSF SPECIFICATIONS.

CO2/SODA/BEER CONDUIT - THRU WALL

CO2/SODA/BEER LINES BY CO2/SODA/BEER VENDOR

CONCRETE SLAB BY ARCH. TRADES

- CAULK AROUND SYRUP LINES

W/ DAP BUTYL-FLEX CAULK

- 24" MIN. WIDE SWEEPING BEND - NO 90° OR 45° ANGLES

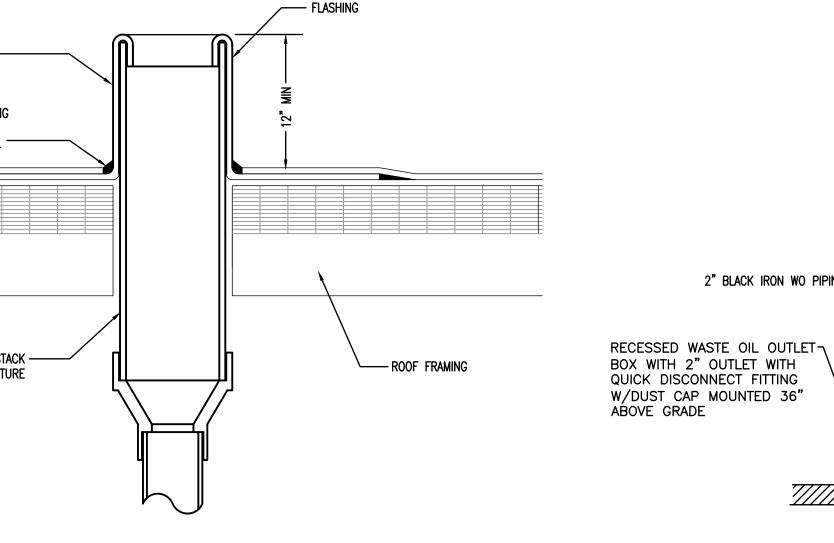
-WATERTIGHT SEAL

— QUARRY TILE

ARCH. TRADES

TYPICAL BEVERAGE LINE DETAIL
N.T.S.

2" BLACK IRON WO PIPING -



NOTES:

1. FOR INSTALLATION DETAILS,
REVIEW INSTRUCTION MANUAL
PROVIDED BY WASTE OIL TANK
SUPPLIER COOKING OIL EQUIPMENT PIPING DIAGRAM

<sup>L</sup>WO LINE FROM FRYER TO TANK

(SLOPE HORIZONTAL

PIPE 1/4"/FT DN)

3/4" BLACK IRON-

FILTER W/PUMP \

3/4" TREADED -

NIPPLE 2"OUT

FROM WALL 12"

2. PROVIDE BACK TO BACK 45° ELBOW FOR ANY CHANGE IN

∕ 3/4" BLACK IRON

ALL PIPING & TANK TO BE LABELED.

COORDINATED SHOP DRAWINGS SHALL BE PROVIDED BY EACH SUBCONTRACTOR AND SHALL CONTAIN A LAYOUT OF ALL DUCTWORK, CONDUIT, PIPING, EQUIPMENT, STRUCTURE, WALLS, CEILING, ETC. AS REQUIRED TO REFLECT FULL COORDINATION ACROSS ALL TRADES AND SHALL BE SUBMITTED FOR REVIEW. COORDINATED DRAWINGS SHALL BE SIGNED OFF BY ALL OTHER TRADES PRIOR TO BEING SUBMITTED FOR REVIEW. PLANS SHALL BE PREPARED AT A MINIMUM OF 1/8" SCALE OR THE SCALE OF THE DESIGN DRAWINGS, WHICHEVER IS LARGER. NO EQUIPMENT SHALL BE INSTALLED WITHOUT APPROVED SHOP DRAWINGS.

540 NW CHIPMAN ROAD LEE'S SUMMIT, MO 64086

ركى

2021/08/19 ISSUED FOR NO. DATE REMARKS REVISIONS

FIELD VERIFICATION Contractor shall verify all figured

not scale these drawings.

COPYRIGHT

Architects, Inc.

dimensions and conditions at the job site and notify Aria Group Architects, Inc. of any dimensional errors, omissions or discrepancies before

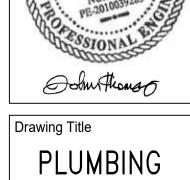
beginning or fabricating any work. Do

Aria Group Architects, Inc. shall retain all common law, statutory and other reserved rights. These drawings and

related documents shall not be

duplicated, disclosed or otherwise

without written consent of Aria Group



DETAILS Job No. 21-0064 DM

Date 07/26/2021 |SEE PLANS |

ADJUSTABLE CLEVIS HANGER
TYPE 1 — SEE
SPECIFICATIONS ADJUSTABLE CLEVIS HANGER
TYPE 43 — SEE
SPECIFICATIONS PROVIDE INSULATION SHIELD & INSERT FOR ALL PIPING —1/2" [15mm] DIA. HANGER RODS WITH (8" [200mm] MIN.) 36" [900mm] MAX. SPACING ON EACH CHANNEL —1-5/8" [43mm] 12 GAUGE CHANNEL OR 2"x2"x1/4" [50x50x6.4mm] ANGLE

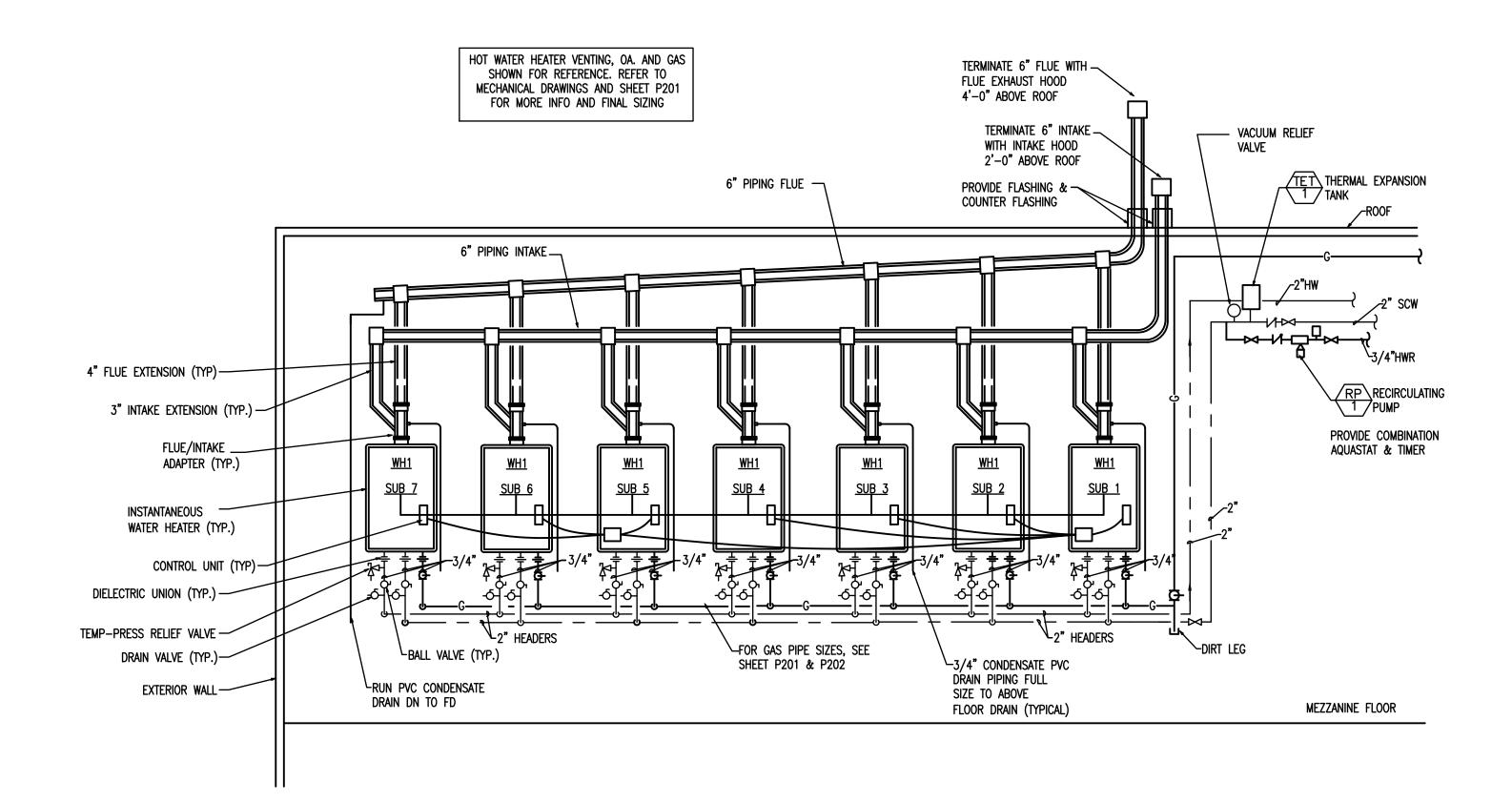
SIDE VIEW TRAPEZE HANGER FOR UP TO 1000 LB. [453KG] UNIFORM LOAD

	MAXIMUM PIPE/TUBING SUPPORT SPACING										
NOM. SIZE [MM]	THRU 3/4 THRU [20]	1 [25]	1 1/4 [32]	1 1/2 [40]	2 [50]	2 1/2 [65]	3 [75]	4 [100]	5 [125]	6 [150]	
PIPE FT. [mm]	7 [2100]	7 [2100]	7 [2100]	9 [2700]	10 [3000]	11 [3400]	12 [3700]	14 [4100]	16 [4900]	17 [5200]	
TUBING FT. [mm]	5 FT [1500]	6 [1800]	7 [2100]	8 [2400]	8 [2400]	9 [2700]	10 [3000]	12 [3700]	13 [4000]	14 [4100]	
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.											

NOTES: SEE SPECIFER FOR DETAILED HANGER REQUIREMENTS

<u>PIPE HANGERS</u> N. T. S.

PIPE HANGER DETAIL SCALE: NOT TO SCALE



WATER HEATER PIPING DIAGRAM SCALE: NOT TO SCALE

- WATER HEATERS TO BE RACK SYSTEM. COMPLETELY FACTORY ASSEMBLED & PIPED WITH 4 HEATERS RACK SYSTEM & 3 HEATERS RACK SYSTEM. FIELD INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- VERIFY WATER HEATER PIPING ARRANGEMENT WITH HEATER MANUFACTURER PRIOR TO INSTALLATION.
- INSTALL WATER HEATERS LEVEL. COMPLETE INSTALLATION SHALL BE AS PER MANUFACTURER REQUIREMENTS.
- WATER HEATER SHALL BE PACKAGED, RACK-MOUNTED ASSEMBLY. CONNECT TO MANUFACTURER'S DHW, DCW, GAS AND CONDENSATE PIPING HEADERS FOR EACH PACKAGE ASSEMBLY.
- 5. PROVIDE LOW-POINT DRAIN VALVES.
- 6. PROVIDE WITH RINNAI MSB CONTROLLER KIT TO CONTROL (7) RU98i CONDENSING TANKLESS WATER HEATERS.
- 7. PLUMBING CONTRACTOR SHALL HAVE WATER HEATER MANUFACTURER'S TECHNICIAN SHALL BE RESPONSIBLE FOR START UP AND INITIAL PROGRAMMING OF ALL WATER HEATERS.
- 8. REFER TO SHEET P201/P202 FOR GAS PIPING SIZES. REFER TO HVAC ROOF PLAN FOR TERMINATION LOCATION OF FLUE / OAI.

540 NW CHIPMAN ROAD LEE'S SUMMIT, MO 64086

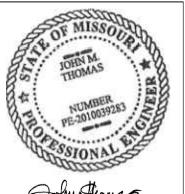
× z

FIELD VERIFICATION Contractor shall verify all figured dimensions and conditions at the job site and notify Aria Group Architects, Inc. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

COPYRIGHT Aria Group Architects, Inc. shall retain all common law, statutory and other reserved rights. These drawings and related documents shall not be duplicated, disclosed or otherwise without written consent of Aria Group Architects, Inc.

NO. DATE REMARKS

REVISIONS



Drawing Title

DETAILS DM 21-0064

COORDINATED SHOP DRAWINGS SHALL

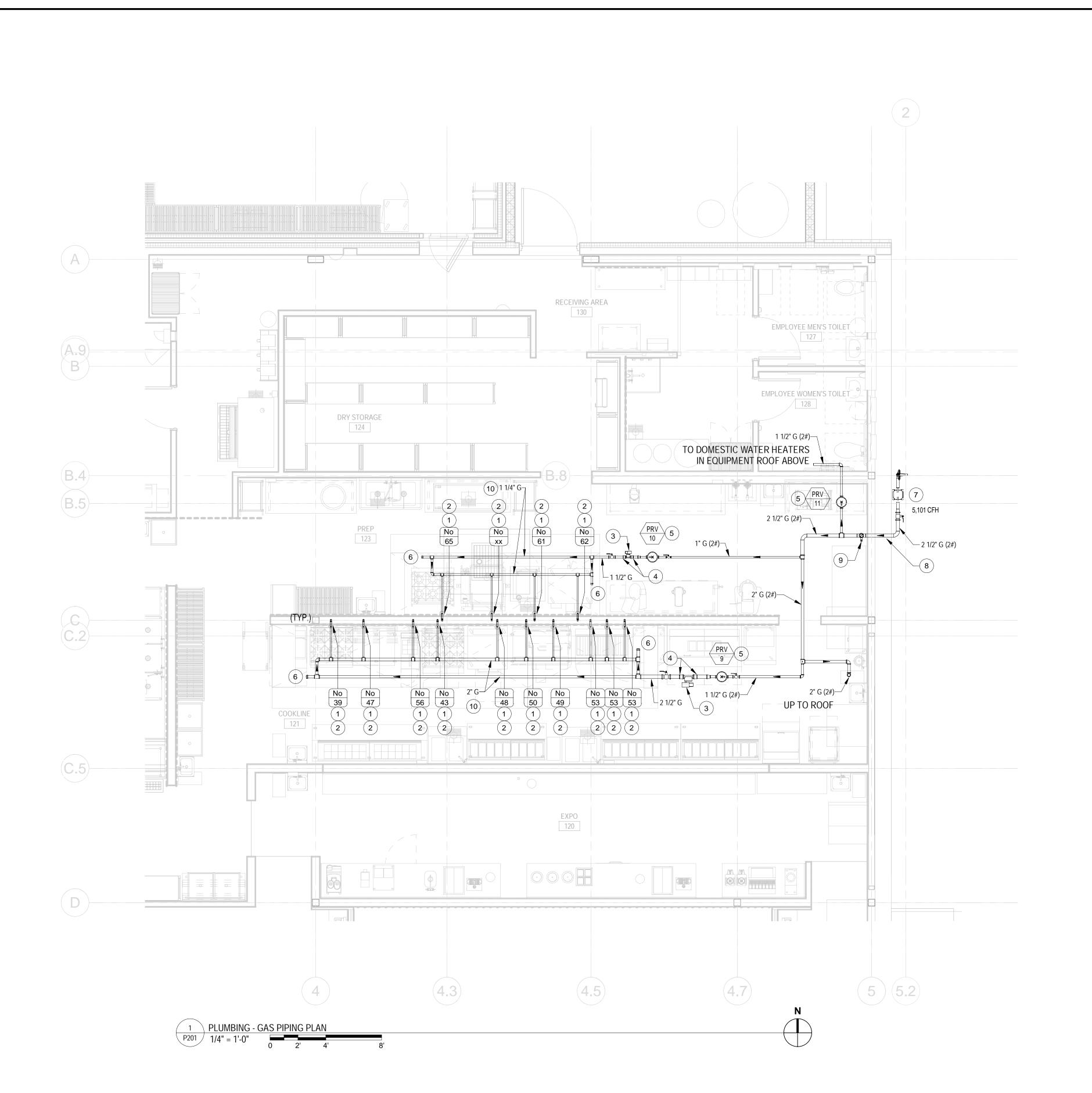
BE PROVIDED BY EACH SUBCONTRACTOR AND SHALL CONTAIN A LAYOUT OF ALL DUCTWORK, CONDUIT, PIPING, EQUIPMENT,

STRUCTURE, WALLS, CEILING, ETC. AS REQUIRED TO REFLECT FULL COORDINATION

ACROSS ALL TRADES AND SHALL BE SUBMITTED FOR REVIEW. COORDINATED DRAWINGS SHALL BE SIGNED OFF BY ALL OTHER TRADES PRIOR TO BEING SUBMITTED FOR REVIEW.

PLANS SHALL BE PREPARED AT A MINIMUM OF 1/8" SCALE OR THE SCALE OF THE DESIGN DRAWINGS, WHICHEVER IS LARGER. NO EQUIPMENT SHALL BE INSTALLED WITHOUT APPROVED SHOP DRAWINGS.

Date SEE PLANS | 07/26/2021



TAG	SERVING	LOCATION	CAPACITY (CFH)	MIN. CAPACITY (CFH)	INLET PRESSURE	OUTLET PRESSURE	RATED PRESSURE	MANUFACTURER MAXITROL MODEL NO.	NOTE
PRV-1	RTU-1	ROOF	250	250	2 PSI	7" W.C.	2 PSI	325-5L	1,2,3
PRV-2	RTU-2	ROOF	250	250	2 PSI	7" W.C.	2 PSI	325-5L	1,2,3
PRV-3	RTU-3	ROOF	250	250	2 PSI	7" W.C.	2 PSI	325-5L	1,2,3
PRV-4	RTU-4	ROOF	60	60	2 PSI	7" W.C.	2 PSI	325-3L	1,2,
PRV-5	RTU-5	ROOF	400	400	2 PSI	7" W.C.	2 PSI	325-5L	1,2,
PRV-6	RTU-6	ROOF	60	60	2 PSI	7" W.C.	2 PSI	325-3L	1,2,
PRV-7	MAU-1	ROOF	362	362	2 PSI	7" W.C.	2 PSI	325-5L	1,2,
PRV-8	MAU-2	ROOF	191	191	2 PSI	7" W.C.	2 PSI	325-5L	1,2,
PRV-9	KITCHEN EQUIPMENT	COOKLINE 124	1,377	1,377	2 PSI	7" W.C.	2 PSI	325-9L	1,2,3
PRV-10	KITCHEN EQUIPMENT	PREP 125	508	508	2 PSI	7" W.C.	2 PSI	325-5L	1,2,3
PRV-11	DOMESTIC WATER HEATERS	EQUIPMENT PLATFORM 200	1,393	1,393	2 PSI	7" W.C.	2 PSI	325-9L	1,2,3

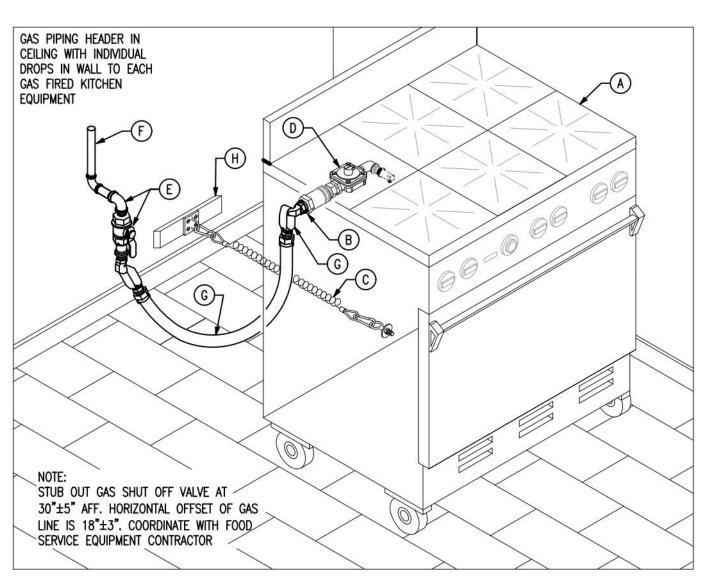
2.) REGULATORS TO BE INSTALLED WITH RELIEF VENT IN POSITION TO PREVENT WATER FROM ENTERING. VENT TO BE A MINIMUM OF 12 INCHES ABOVE ROOF OR GRADE. 3.) TAG REGULATORS WITH INLET AND OUTLET SETTING. AFFIX PERMANENT "DO NOT REMOVE" ON SETTING TAG.

4.) REGULATORS INSTALLED INDOORS SHALL HAVE FULL SIZED VENT PIPED TO OUTDOORS. TERMINATE WITH SCREENED ELBOW TURNED DOWN A MINIMUM OF 12" ABOVE ROOF OR GRADE.

## DRAWING NOTES: (THIS SHEET ONLY)

- 1 EVERY GAS OUTLET SHALL HAVE AN INDIVIDUAL SHUTOFF VALVE. THE VALVE SHALL BE ADJACENT TO THE APPLIANCE AND BE TOTALLY ACCESSIBLE.
- QUICK CONNECTION AND FLEXIBLE HOSE TO APPLIANCE FURNISHED AND INSTALLED BY THIS CONTRACTOR.
- 3 EMERGENCY SHUTOFF GAS SOLENOID VALVE (MECHANICAL TYPE), FURNISHED WITH KITCHEN EXHAUST HOOD TO BE INTERLOCKED WITH HOOD ANSUL SYSTEM. INSTALL DOWNSTREAM OF GAS PRESSURE REGULATOR.
- (4) GAS PRESSURE TEST PLUG TO BE LOCATED IN ACCESSIBLE LOCATION IN KITCHEN AREA.
- 5 ROUTE GAS VENT FULL SIZE TO OUTDOORS. MAINTAIN MINIMUM 10'-0" AWAY FROM ANY BUILDING INTAKE/DISCHARGE OPENING.
- (6) MINIMUM 6" LONG DIRT LEG.
- (7) INCOMING GAS SERVICE, PRESSURE REGULATOR, AND METER BY GAS UTILITY COMPANY TO DELIVER INDICATED GAS FLOW RATE @ 2.0 LBS DOWNSTREAM OF PRESSURE REGULATOR AND METER.
- 8 ENTER BUILDING APPROXIMATELY 3'-0" ABOVE FINISHED FLOOR (V.I.F.) WITH PIPE SLEEVE THROUGH EXTERIOR WALL.
- 9 SHUT-OFF VALVE IN RISER AT 5'-0" ABOVE FINISHED FLOOR WITH VALVE TAG "BUILDING NATURAL GAS MAIN SHUT-OFF VALVE".
- (10) LOOPED GAS HEADER OF SIZE INDICATED ABOVE CEILING.

DOMESTIC WAT  DWH-1  ROOF  RTU-1  RTU-2  RTU-3  RTU-4  RTU-5  RTU-6  MAU-1  MAU-2  KITCHEN	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ROOFTOP UNIT	2.5" - 14" WC 2.5" - 14" WC 2.5" - 14" WC 4.5" - 14" WC 2.5" - 14" WC	199,000 =	1,393 1,393 250 250 250 60
DWH-1  ROOF  RTU-1  RTU-2  RTU-3  RTU-4  RTU-5  RTU-6  MAU-1  MAU-2	7 1 1 1 1 1 1	ROOFTOP UNIT	2.5" - 14" WC 2.5" - 14" WC 2.5" - 14" WC 4.5" - 14" WC 2.5" - 14" WC	250,000 250,000 250,000 60,000	1,393 250 250 250
ROOF RTU-1 RTU-2 RTU-3 RTU-4 RTU-5 RTU-6 MAU-1 MAU-2	1 1 1 1 1 1	ROOFTOP UNIT ROOFTOP UNIT ROOFTOP UNIT ROOFTOP UNIT ROOFTOP UNIT ROOFTOP UNIT	2.5" - 14" WC 2.5" - 14" WC 2.5" - 14" WC 4.5" - 14" WC 2.5" - 14" WC	250,000 250,000 250,000 60,000	1,393 250 250 250
RTU-1 RTU-2 RTU-3 RTU-4 RTU-5 RTU-6 MAU-1 MAU-2	1 1 1 1 1	ROOFTOP UNIT ROOFTOP UNIT ROOFTOP UNIT ROOFTOP UNIT	2.5" - 14" WC 2.5" - 14" WC 2.5" - 14" WC 4.5" - 14" WC 2.5" - 14" WC	250,000 250,000 250,000 60,000	250 250 250
RTU-1 RTU-2 RTU-3 RTU-4 RTU-5 RTU-6 MAU-1 MAU-2	1 1 1 1 1	ROOFTOP UNIT ROOFTOP UNIT ROOFTOP UNIT ROOFTOP UNIT	2.5" - 14" WC 2.5" - 14" WC 4.5" - 14" WC 2.5" - 14" WC	250,000 250,000 60,000	250 250
RTU-2 RTU-3 RTU-4 RTU-5 RTU-6 MAU-1 MAU-2	1 1 1 1 1	ROOFTOP UNIT ROOFTOP UNIT ROOFTOP UNIT ROOFTOP UNIT	2.5" - 14" WC 2.5" - 14" WC 4.5" - 14" WC 2.5" - 14" WC	250,000 250,000 60,000	250 250
RTU-3 RTU-4 RTU-5 RTU-6 MAU-1 MAU-2	1 1 1 1	ROOFTOP UNIT ROOFTOP UNIT ROOFTOP UNIT	2.5" - 14" WC 4.5" - 14" WC 2.5" - 14" WC	250,000 60,000	250
RTU-4 RTU-5 RTU-6 MAU-1 MAU-2	1 1 1 1	ROOFTOP UNIT ROOFTOP UNIT ROOFTOP UNIT	4.5" - 14" WC 2.5" - 14" WC	60,000	
RTU-5 RTU-6 MAU-1 MAU-2	1 1 1	ROOFTOP UNIT	2.5" - 14" WC	· · · · · · · · · · · · · · · · · · ·	60
RTU-6 MAU-1 MAU-2	1 1	ROOFTOP UNIT		400,000	
MAU-1 MAU-2	1				400
MAU-2		MAKEUP AIR UNIT	4.5" - 14" WC	60,000	60
	1		7" - 14" WC	362,000	362
KITCHEN		MAKEUP AIR UNIT	7" - 14" WC	191,000	191
KITCHEN			CONNEC	TED LOAD =	1,823
			<del>,</del>		
39	1	SIX BURNER MODULAR RANGE	5" - 10" WC	210,000	210
43	1	36" RANGE / CONV. OVEN	5" - 10" WC	240,000	240
47	1	36" COUNTERTOP GRIDDLE	4" - 10" WC	82,000	82
48	1	DECK BROILER	7" - 10" WC	208,000	208
49	1	48" COUNTERTOP GRIDDLE	7" - 10" WC	120,000	120
50	1	SALAMANDER	4" - 10" WC	40,000	40
53	3	FRYER	7" - 10" WC	122,000	366
56	1 PASTA COOKER		3.5" - 10" WC	111,000	111
62	1 DOUBLE CONVECTION OVEN		7" - 10" WC	144,000	144
64	1	BOILERLESS STEAMER	4.25" - 10" WC	62,000	62
65	1 ;	36" SIX BURNER RANGE / CONV. OVEN	ANGE / CONV. OVEN 5" - 10" WC		198
67	1	30 GAL TILTING SKILLET	4.5" - 10" WC	104,000	104
			CONNEC	TED LOAD =	1,885



DETAIL NOTES: (THIS DETAIL ONLY) (A) FOOD SERVICE EQUIPMENT. (B) UTILITY INLET. (C) RESTRAINING CABLE (BY FSE CONTRACTOR).

D APPLIANCE GAS REGULATOR VALVE SHALL MEET GAS UTILITY COMPANY MINIMUM EMERGENCY EXPOSURE LIMIT. PROVIDE OVER-PRESSURE

FSE CONTRACTOR).

H COORDINATE WALL REINFORCING WITH GENERAL CONTRACTOR. PROTECTION DEVICE OTHERWISE. E ELBOW AND SHUT-OFF VALVE (BY PLUMBING CONTRACTOR).

F INDIVIDUAL GAS PIPING DROP INSIDE WALL TO MAIN GAS MANIFOLD INSTALLED ABOVE CEILING (BY PLUMBING CONTRACTOR). G QUICK DISCONNECT HOSE AND FITTINGS (BY FSE CONTRACTOR).

No.	DESCRIPTION	GAS LINE SIZE (IN.)	GAS LOAD (BTU/HR)
39	36" SIX BURNER MODULAR RANGE	3/4"	210,000
43	36" RANGE / CONV. OVEN	3/4"	240,000
47	36" COUNTERTOP GRIDDLE	3/4"	82,000
48	DECK BROILER	3/4"	208,000
49	48" COUNTERTOP GRIDDLE	3/4"	120,000
50	SALAMANDER	3/4"	40,000
53	FRYER ( 45 LB )	3/4"	122,000
56	PASTA COOKER	3/4"	111,000
62	DOUBLE CONVECTION OVEN	3/4"	144,000
64	BOILERLESS STEAMER	1/2"	62,000
65	COUNTERTOP SIX BURNER RANGE	3/4"	198,000
67	30 GAL TILTING SKILLET	1/2"	104,000

FOOD SERVICE EQUIPMENT GAS CONNECTION DETAIL

COORDINATED SHOP DRAWINGS SHALL BE PROVIDED BY EACH SUBCONTRACTOR AND SHALL CONTAIN A LAYOUT OF ALL DUCTWORK, CONDUIT, PIPING, EQUIPMENT, STRUCTURE, WALLS, CEILING, ETC. AS REQUIRED TO REFLECT FULL COORDINATION ACROSS ALL TRADES AND SHALL BE SUBMITTED FOR REVIEW. COORDINATED DRAWINGS SHALL BE SIGNED OFF BY ALL OTHER TRADES PRIOR TO BEING SUBMITTED FOR REVIEW. PLANS SHALL BE PREPARED AT A MINIMUM OF 1/8" SCALE OR THE SCALE OF THE DESIGN DRAWINGS, WHICHEVER IS LARGER.

> NO EQUIPMENT SHALL BE INSTALLED WITHOUT APPROVED SHOP DRAWINGS.



540 NW CHIPMAN ROAD LEE'S SUMMIT, MO 64086

FIELD VERIFICATION Contractor shall verify all figured dimensions and conditions at the job site and notify Aria Group Architects, Inc. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

COPYRIGHT Aria Group Architects, Inc. shall retain all common law, statutory and other reserved rights. These drawings and related documents shall not be duplicated, disclosed or otherwise without written consent of Aria Group Architects, Inc.

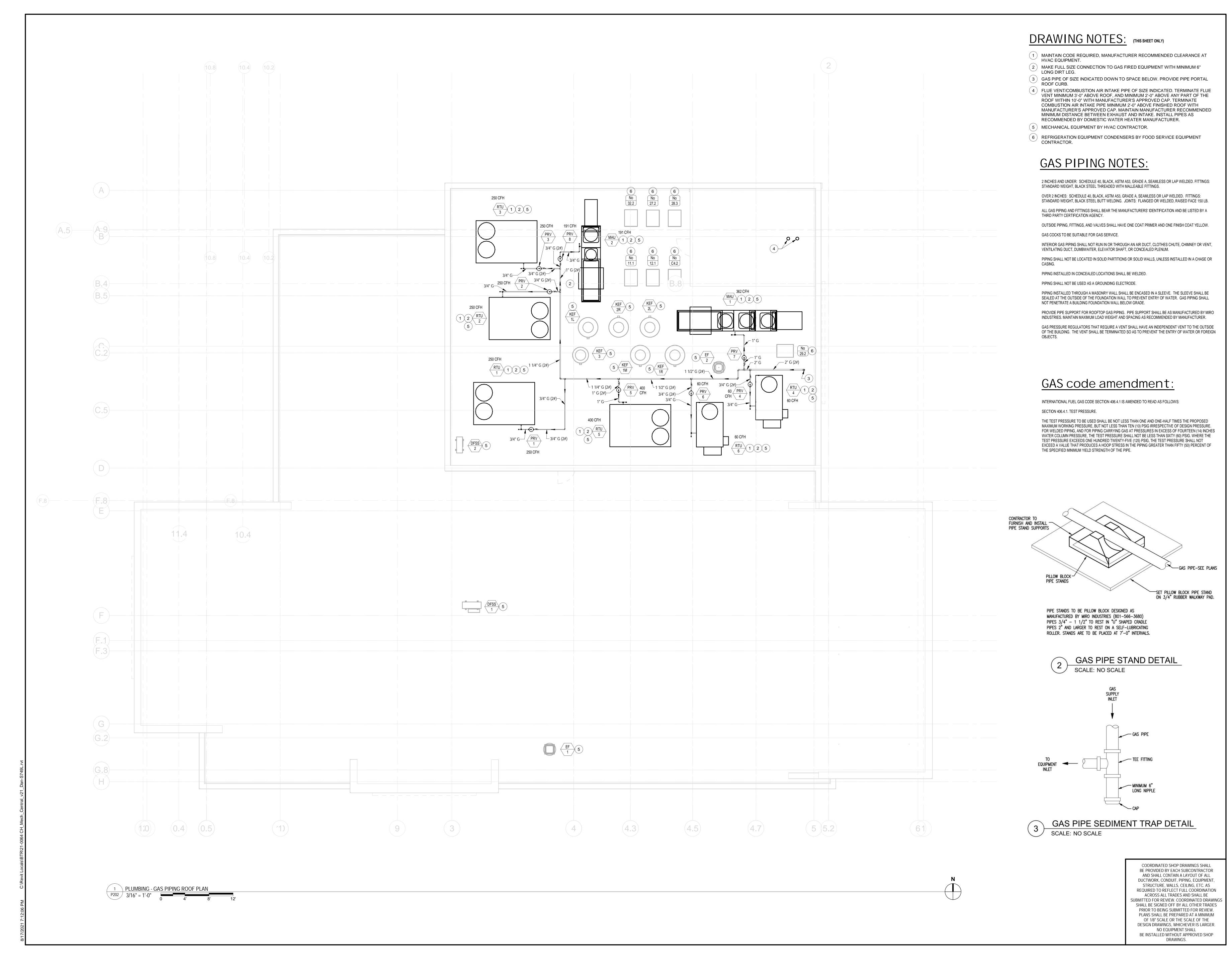
2021/08/19 ISSUED FOR NO. DATE REMARKS REVISIONS



Drawing Title PLUMBING - GAS PIPING PLAN

Job No. Author

21-0064 Scale AS NOTED 08/19/2021



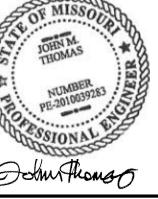
540 NW CHIPMAN ROAD LEE'S SUMMIT, MO 64086

Contractor shall verify all figured dimensions and conditions at the job site and notify Aria Group Architects, Inc. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

COPYRIGHT Aria Group Architects, Inc. shall retain all common law, statutory and other reserved rights. These drawings and related documents shall not be duplicated, disclosed or otherwise without written consent of Aria Group

2021/08/19 ISSUED FOR NO. DATE REMARKS

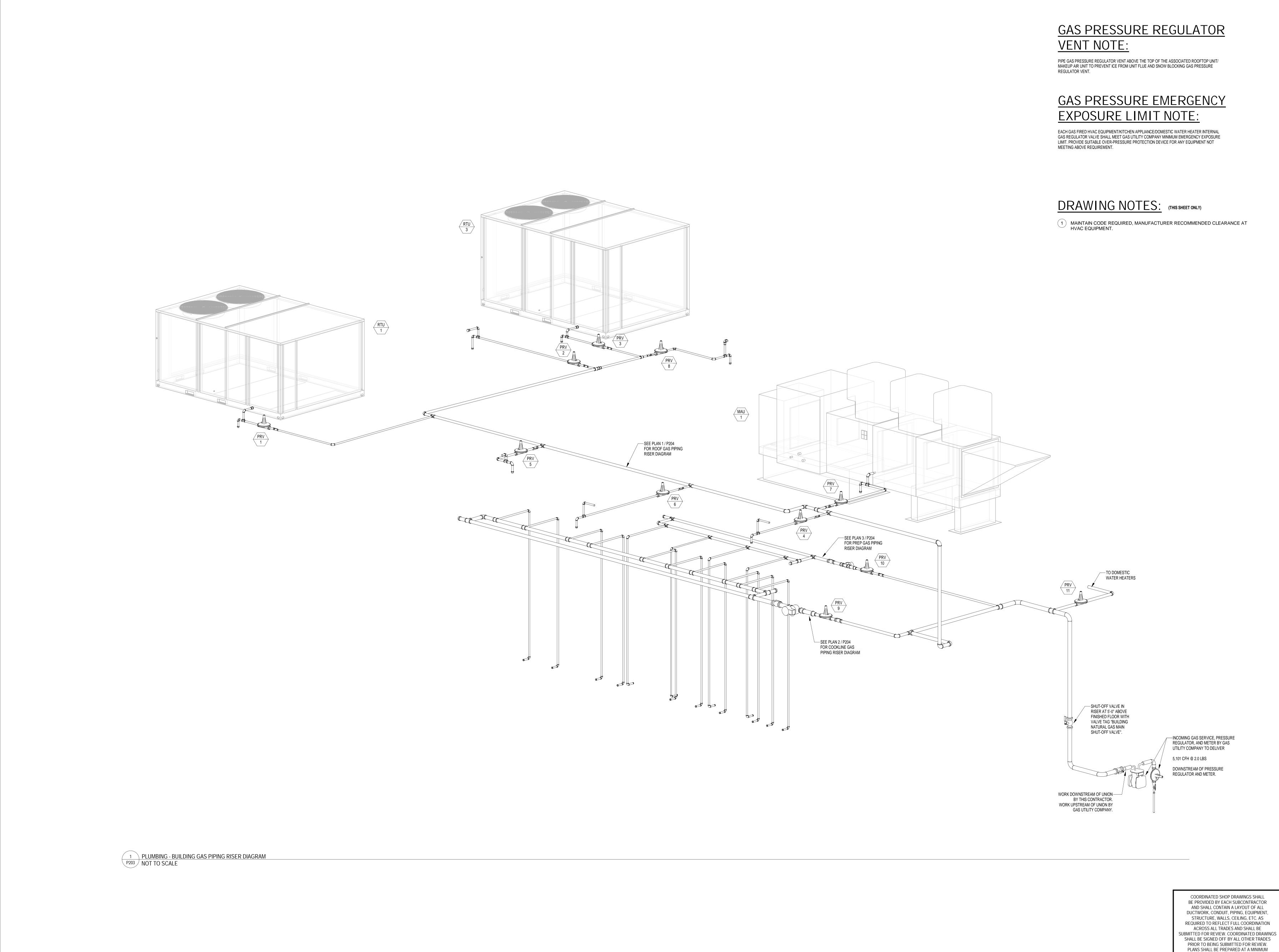
REVISIONS



Drawing Title PLUMBING - GAS

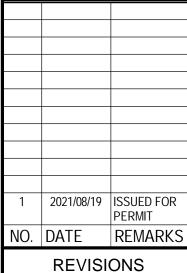
PIPING ROOF PLAN

21-0064 Scale 3/16" = 1'-0"

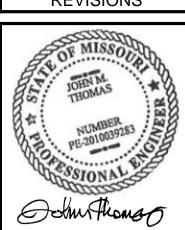




FIELD VERIFICATION
Contractor shall verify all figured
dimensions and conditions at the job
site and notify Aria Group Architects, Inc. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings. COPYRIGHT Aria Group Architects, Inc. shall retain all common law, statutory and other reserved rights. These drawings and related documents shall not be duplicated, disclosed or otherwise without written consent of Aria Group



Architects, Inc.



Drawing Title PLUMBING - BUILDING GAS PIPING RISER DIAGRAM

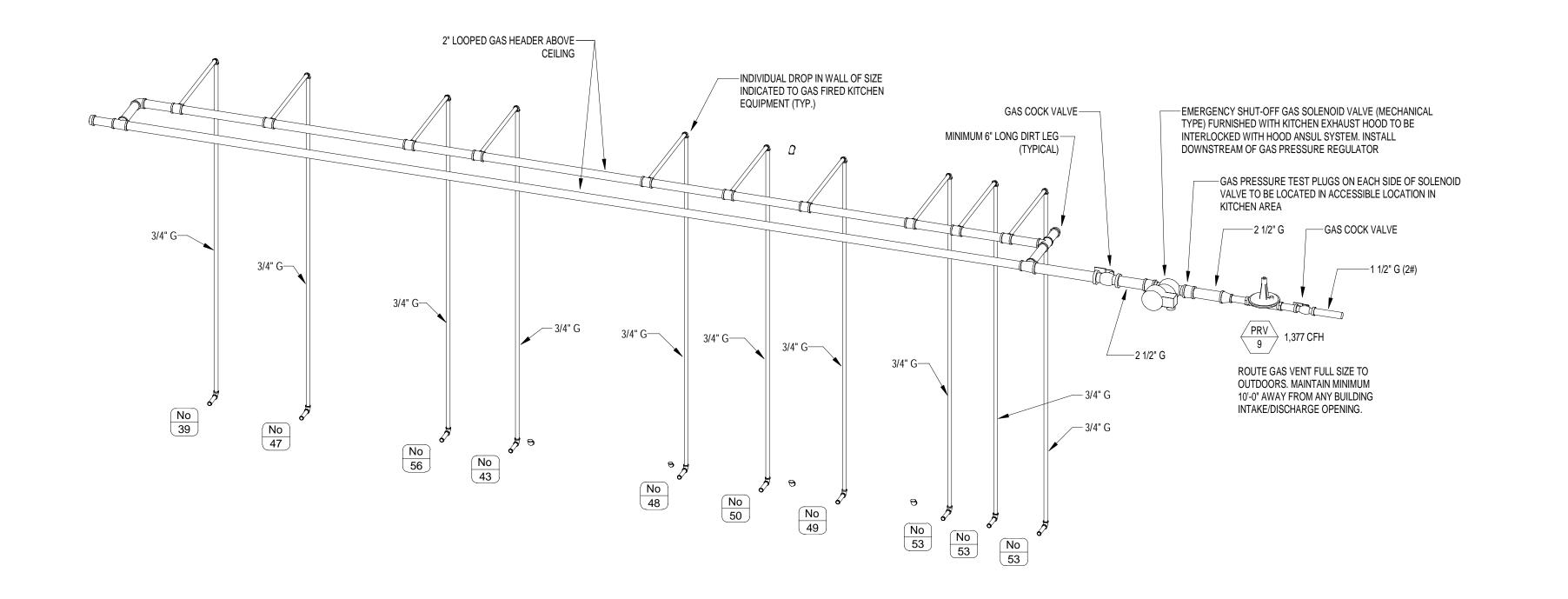
21-0064

Scale N.T.S.

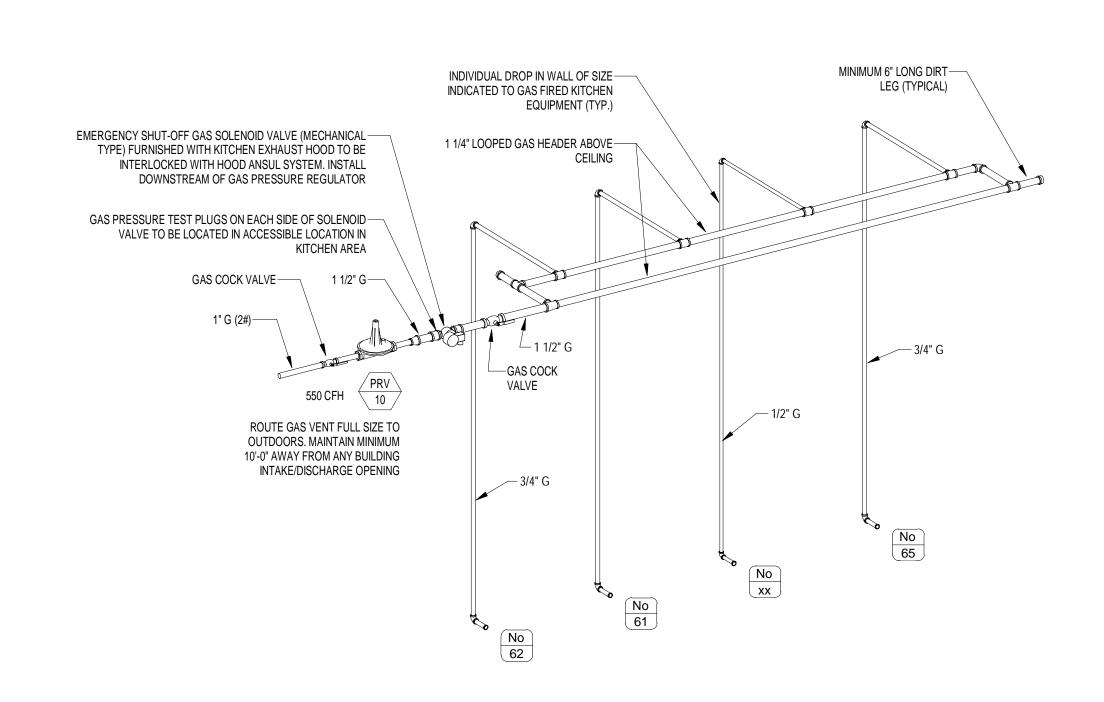
Sheet No.

OF 1/8" SCALE OR THE SCALE OF THE DESIGN DRAWINGS, WHICHEVER IS LARGER. NO EQUIPMENT SHALL BE INSTALLED WITHOUT APPROVED SHOP DRAWINGS.

1 PLUMBING - ROOF GAS PIPING RISER DIAGRAM
P204 NOT TO SCALE



PLUMBING - COOKLINE GAS PIPING RISER DIAGRAM
NOT TO SCALE



\_\_\_\_ 2" G (2#)

PLUMBING - PREP GAS PIPING RISER DIAGRAM
NOT TO SCALE

COORDINATED SHOP DRAWINGS SHALL
BE PROVIDED BY EACH SUBCONTRACTOR
AND SHALL CONTAIN A LAYOUT OF ALL
DUCTWORK, CONDUIT, PIPING, EQUIPMENT,
STRUCTURE, WALLS, CEILING, ETC. AS
REQUIRED TO REFLECT FULL COORDINATION
ACROSS ALL TRADES AND SHALL BE
SUBMITTED FOR REVIEW. COORDINATED DRAWINGS
SHALL BE SIGNED OFF BY ALL OTHER TRADES
PRIOR TO BEING SUBMITTED FOR REVIEW.
PLANS SHALL BE PREPARED AT A MINIMUM
OF 1/8" SCALE OR THE SCALE OF THE
DESIGN DRAWINGS, WHICHEVER IS LARGER.
NO EQUIPMENT SHALL
BE INSTALLED WITHOUT APPROVED SHOP

DRAWINGS.

ENGINEERING

104 N. OAK PARK AVI
OAK PARK AV

WINERY & RESTAURANT LEE

FIELD VERIFICATION
Contractor shall verify all figured dimensions and conditions at the job site and notify Aria Group Architects, Inc. of any dimensional errors, omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings.

COPYRIGHT
Aria Group Architects, Inc. shall retain

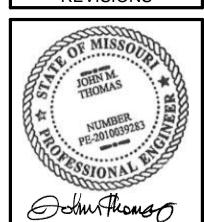
COPYRIGHT

Aria Group Architects, Inc. shall retain all common law, statutory and other reserved rights. These drawings and related documents shall not be duplicated, disclosed or otherwise without written consent of Aria Group Architects, Inc.

1 2021/08/19 ISSUED FOR PERMIT

NO. DATE REMARKS

REVISIONS



Drawing Title
PLUMBING - PARTIAL
GAS PIPING RISER
DIAGRAMS

Job No.
21-0064

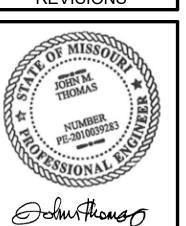
Scale Drawi

Scale Date 08/19/2021



540 NW CHIPMAN ROAD LEE'S SUMMIT, MO 64086 FIELD VERIFICATION
Contractor shall verify all figured
dimensions and conditions at the job
site and notify Aria Group Architects,
Inc. of any dimensional errors,
omissions or discrepancies before omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings. COPYRIGHT Aria Group Architects, Inc. shall retain all common law, statutory and other reserved rights. These drawings and related documents shall not be duplicated, disclosed or otherwise

2021/08/19 ISSUED FOR NO. DATE REMARKS REVISIONS



Drawing Title PLUMBING -UNDERGROUND PLAN

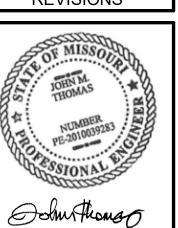
Job No. 21-0064

3/16" = 1'-0" 08/06/2021 Sheet No.

540 NW CHIPMAN ROAD LEE'S SUMMIT, MO 64086

FIELD VERIFICATION
Contractor shall verify all figured dimensions and conditions at the job site and notify Aria Group Architects, Inc. of any dimensional errors, omissions or discrepancies before omissions or discrepancies before beginning or fabricating any work. Do not scale these drawings. COPYRIGHT
Aria Group Architects, Inc. shall retain all common law, statutory and other reserved rights. These drawings and related documents shall not be duplicated, disclosed or otherwise without written consent of Aria Group

2021/08/19 ISSUED FOR NO. DATE REMARKS REVISIONS



Drawing Title PLUMBING - FLOOR

PLAN

Job No. 21-0064

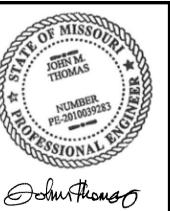
3/16" = 1'-0" 08/06/2021



Contractor shall verify all figured dimensions and conditions at the job site and notify Aria Group Architects, Inc. of any dimensional errors, beginning or fabricating any work. Do

Aria Group Architects, Inc. shall retain related documents shall not be duplicated, disclosed or otherwise without written consent of Aria Group

NO. DATE REMARKS



Drawing Title PLUMBING - ROOF

PLAN

Job No. 21-0064

Scale As indicated 08/06/2021