




















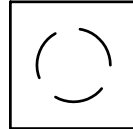

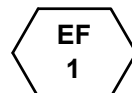


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GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED ONLY TO DEFINE THE BASIC FUNCTIONS REQUIRED FOR PROPER OPERATION OF THE SYSTEMS.
2. NOT ALL EXISTING PLUMBING EQUIPMENT, PIPING, AND ACCESSORIES ARE NECESSARILY SHOWN ON THIS DRAWING, BUT WHAT IS DEEMED NECESSARY TO SHOW INTENT OF WORK INVOLVED FOR THIS PROJECT. REFER TO ALL PLANS, SECTIONS, DETAILS, SCHEDULES, AND SPECIFICATIONS FOR COMPLETE SYSTEM REQUIREMENTS.
3. SCOPE OF WORK CONSISTS OF FURNISHING LABOR, MATERIALS, AND EQUIPMENT FOR THE INSTALLATION. IT ALSO INCLUDES PLACING INTO OPERATION COMPLETE AND OPERABLE SYSTEMS AS SPECIFIED AND SHOWN. ACCESSORIES REQUIRED FOR PROPER OPERATION OF THE SYSTEMS, EVEN THOUGH NOT SPECIFICALLY INDICATED, SHALL BE INCLUDED AND INSTALLED. SUCH ACCESSORIES MAY INCLUDE, BUT NOT LIMITED TO, VALVES, FITTINGS, PIPING SUPPORTS, ETC.
4. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE, AND LOCAL ORDINANCES WHICH MAY BE IN EFFECT. ALL PLUMBING MATERIALS, INSTALLATION PROCEDURES, AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THESE RULES, REGULATIONS, AND ORDINANCES AT NOT ADDITIONAL COST. THESE CODES REPRESENT THE MINIMUM ACCEPTABLE REQUIREMENTS, THEREFORE, WHERE DRAWINGS AND/OR SPECIFICATIONS INDICATE MATERIALS OR CONSTRUCTION IN EXCESS OF THESE CODE REQUIREMENTS, THE DRAWINGS AND/OR SPECIFICATIONS SHALL GOVERN.
5. PIPING LAYOUT IS BASED ON ARCHITECTURAL DRAWINGS AVAILABLE AT THE TIME OF THE DESIGN. AS FIELD CHANGES MAY OCCUR, CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY LOCATION OF ALL EXISTING PLUMBING EQUIPMENT AND PIPING AS WELL AS EXISTING CONDITIONS FOR DEFECTS PRIOR TO INSTALLATION. PLUMBING CONTRACTOR SHALL NOTIFY BUILDER OF ANY REQUIRED CHANGES OR ALTERATIONS AND SHALL TAKE RESPONSIBILITY FOR VERIFYING THE INTEGRITY OF THE CHANGES WITH THE ENGINEER OF RECORD.
6. IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS AS WELL AS ALL PERTINENT SITE ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE FULL SCOPE OF WORK. IN ADDITION, THE PLUMBING CONTRACTOR MUST COORDINATE WITH AN OWNER REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS AND CHANGES THE OWNER MAY CONSIDER PART OF THIS SCOPE AND MAY NOT BE SPECIFIED HEREIN. DURING THE COURSE OF CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO WORK CLOSELY WITH ALL TRADES IN ORDER TO ENSURE A FULLY COORDINATED INSTALL.
7. ANY DISCREPANCIES OR INADEQUACIES WITHIN THIS DRAWING SET OR BETWEEN THIS SET AND THE RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, CIVIL, ARCHITECTURAL AND SITE ENGINEERING DRAWINGS, OR BETWEEN THIS SET AND EXISTING FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE OWNER, ARCHITECT, AND ENGINEER OF RECORD PRIOR TO BID SUBMITTAL.
8. THE PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING INVERT ELEVATIONS PRIOR TO BID SUBMISSION. IF ANY CONFLICTS EXIST BETWEEN THE NEW PLUMBING SYSTEM AND THE EXISTING SITE LEVEL SYSTEMS, THEY SHOULD BE BROUGHT TO THE ATTENTION OF AN OWNER'S REPRESENTATIVE OR THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION. EXTRA COMPENSATION WILL NOT BE GRANTED FOR ANY EXTRA WORK OR MATERIAL WHICH RESULTS FROM AN INABILITY TO MEET THE INVERTS OF THE EXISTING SITE LEVEL PIPING SYSTEMS,
9. BRANDS AND MODELS OF EQUIPMENT SHOWN ON THE SCHEDULES ARE GIVEN AS STANDARD. BRANDS AND MODELS OF EQUAL CAPACITY AND QUALITY MAY BE USED WITH ARCHITECT/ENGINEER'S APPROVAL. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER FIT AND OTHER ASPECTS RELATED TO THE SUBSTITUTION. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES AND IN AN ARRANGEMENT THAT WILL GIVE THE GREATEST PRACTICAL EASE OF OPERATION AND SERVICE TO THE OWNER.
10. THE PLUMBING CONTRACTOR SHALL RUN ALL DOMESTIC WATER, WASTE, AND VENT PIPING AS HIGH AS POSSIBLE THROUGHOUT THE ENTIRE BUILDING. INSTALL LONG RUNS OF PIPING WITHIN STEEL JOIST SPACE AND OTHER PIPING TIGHT TO BOTTOM OF STEEL. COORDINATE AND VERIFY WITH OTHER CONTRACTORS AS NOT TO INTERFERE WITH DUCTWORK, FIRE PROTECTION PIPING, LIGHTING SYSTEMS, ETC.
11. ALL DOMESTIC WATER BRANCH LINES SHALL HAVE THEIR OWN RESPECTIVE SHUT-OFF VALVES WHETHER OR NOT SHOWN ON THE DRAWINGS.
12. ALL EXPOSED SUPPLY AND DRAINAGE PIPING SHALL BE PROPERLY LABELED AS TO THE TYPE OF SYSTEM AND DIRECTION OF FLOW.
13. PER 2021 INTERNATIONAL MECHANICAL CODE, ALL MATERIALS WITHIN RETURN AIR PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723. REFER TO 2021 INTERNATIONAL MECHANICAL CODE FOR ANY EXCEPTIONS.
14. ALL VENT THRU ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADE. ALL OUTSIDE AIR INTAKES SHALL BE LOCATED AT A MINIMUM OF 10 FEET FROM ANY PLUMBING VENT, EXHAUST, AND FLUE OUTLETS.
15. ALL FLOOR SINKS, FLOOR DRAINS, AND FUNNEL DRAINS RECEIVING THE DISCHARGE OF INDIRECT WASTE PIPES SHALL BE LOCATED IN A READILY ACCESSIBLE LOCATION.
16. ALL ADA COMPLIANT FIXTURES SHALL MEET ICC/ANSI A117.1 REQUIREMENTS FOR ACCESSIBILITY.
17. ALL CLEAN OUTS SHALL BE INSTALLED AS SHOWN AND AS REQUIRED BY THE 2021 INTERNATIONAL PLUMBING CODE SECTION 708.
18. ALL PIPING PENETRATIONS THROUGH RATED WALLS AND CEILINGS SHALL BE SEALED AROUND PIPE IN ACCORDANCE WITH 2021 INTERNATIONAL BUILDING CODE CHAPTER 7.
19. ANY EXISTING PIPING INDICATED ON THESE PLANS SHALL BE VERIFIED IN THE FIELD FOR EXACT LOCATIONS, QUANTITY, AND PIPE SIZE.
20. ALL VENT PIPING SHALL BE SLOPED TO DRAIN BACK TO FIXTURES. ALL ROOF PENETRATIONS SHALL BE PROPERLY COORDINATE THE INSTALLATION OF ALL ROOF FLASHING AT ROOF PENETRATION WITH BUILDING OWNER.
21. PLUMBING CONTRACTOR SHALL PROVIDE INITIAL START UP OF ALL SYSTEMS INCLUDED IN THE PLUMBING SCOPE OF WORK.
22. PER 2021 IECC SECTION 404.4, PIPING FROM A WATER HEATER TO THE TERMINATION OF THE HEATED WATER FIXTURE SUPPLY PIPE SHALL BE INSULATED IN ACCORDANCE 2021 IECC TABLE C403.12.3. REFER TO THE 2021 IECC FOR ANY EXCEPTIONS.
23. THE PLUMBING CONTRACTOR SHALL PROVIDE A COMPLETE SET OF RECORD "AS-BUILT" DRAWINGS INDICATING THE PRECISE LOCATION OF ALL SYSTEMS, CONCEALED PIPING, PIPING CONNECTIONS, AND ACCESS DOORS. THESE DRAWINGS SHALL ALSO INCLUDE ALL CHANGES AND DEVIATIONS FROM THE BID DOCUMENTS.
24. THE CONTRACTOR SHALL PROVIDE MAINTENANCE INSTRUCTIONS FOR EQUIPMENT AND SYSTEMS THAT REQUIRE PREVENTATIVE MAINTENANCE AS WELL AS ANY WRITTEN WARRANTIES COVERING MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE PROJECT.
25. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH 2021 IPC AND ALL COLORADO STATE AMENDMENTS.

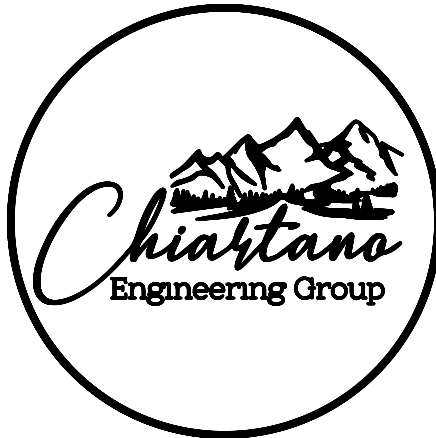
PLUMBING LEGEND

SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRC
	WASTE BELOW GROUND
	WASTE ABOVE GROUND
	VENT
	TEE UP
	TEE DOWN
	ELBOW UP
	ELBOW DOWN
	UNION
	WATER METER
	REDUCER
	CAP
	BALL VALVE
	BUTTERFLY VALVE
	GATE VALVE
	GLOBE VALVE
	HOSE BIB
	FLOOR DRAIN
	FLOOR SINK
	SUMP PUMP
	CONNECT NEW TO EXISTING TIE-POINT
	EQUIPMENT CALL-OUT - SEE SCHEDULES

NOTE: WHEN ALL SYMBOLS REPRESENTED ARE SHOWN ON PLANS IN A LIGHT LINE WEIGHT DENOTES EXISTING DEVICES.


SHEET INDEX

SHEET NUMBER	SHEET CONTENTS
P001	GENERAL INFORMATION AND SCHEDULES
P111	PLUMBING PLAN

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**EL PASO COUNTY RDC
NEW MODULAR UNIT
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ELLICOTT, CO 80808**

	ISSUED FOR PERMIT	08/22/2024
NO.	REVISION	DATE

PROJECT NO: 24-05933
DRAWN BY: MPC
CHECKED BY: MPC
DATE: 08/22/2024

SHEET CONTENTS

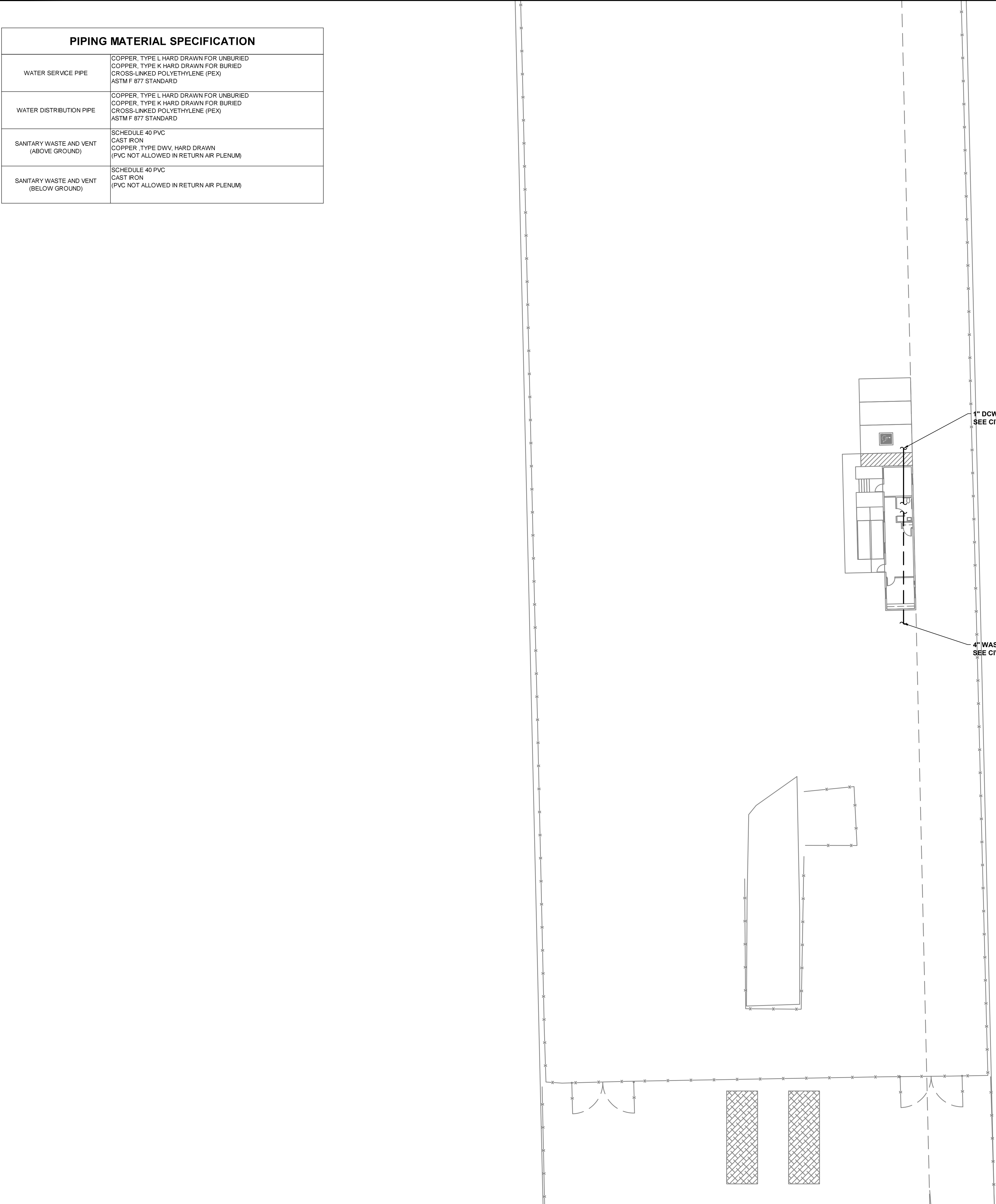
GENERAL INFORMATION AND SCHEDULES

SHEET NUMBER:

P001

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PIPING MATERIAL SPECIFICATION	
WATER SERVICE PIPE	COPPER, TYPE L HARD DRAWN FOR UNBURIED COPPER, TYPE K HARD DRAWN FOR BURIED CROSS-LINKED POLYETHYLENE (PEX) ASTM F 877 STANDARD
WATER DISTRIBUTION PIPE	COPPER, TYPE L HARD DRAWN FOR UNBURIED COPPER, TYPE K HARD DRAWN FOR BURIED CROSS-LINKED POLYETHYLENE (PEX) ASTM F 877 STANDARD
SANITARY WASTE AND VENT (ABOVE GROUND)	SCHEDULE 40 PVC CAST IRON COPPER, TYPE DWV, HARD DRAWN (PVC NOT ALLOWED IN RETURN AIR PLENUM)
SANITARY WASTE AND VENT (BELOW GROUND)	SCHEDULE 40 PVC CAST IRON (PVC NOT ALLOWED IN RETURN AIR PLENUM)



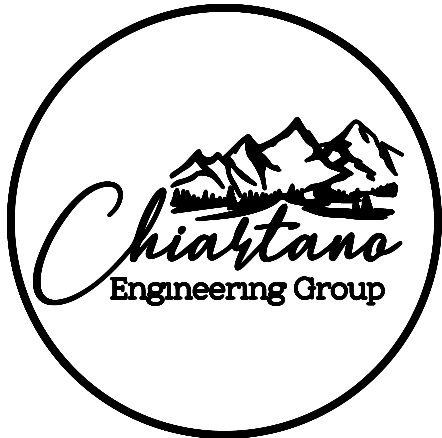
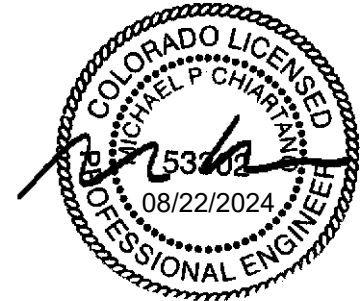
GENERAL NOTES

- A. DRAWINGS ARE BASED ON RECORD DRAWINGS (NOT GUARANTEED TO BE CURRENT AT TIME OF CONSTRUCTION) AND FIELD INVESTIGATION WITH DEMOLITION. EXAMINE PLANS AND VISIT THE SITE TO FIELD VERIFY ACTUAL CONDITIONS AND COORDINATE SAME WITH OTHER TRADES PRIOR TO STARTING WORK.
- B. A LICENSED AND BONDED CONTRACTOR SHALL BE USED FOR INSTALLATION. ALL LOCAL CODES SHALL BE FOLLOWED DURING INSTALLATION.
- C. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL REMOVED EQUIPMENT AND MATERIAL.
- D. CONTRACTOR TO VERIFY AND COORDINATE STRUCTURAL SUPPORT AND OPENINGS IN FLOOR, ROOF, AND WALLS.
- E. THE CONTRACTOR MUST VISIT THE SITE AND NOTE ALL EXISTING CONDITIONS AS WELL AS CONDITIONS TO BE MET PRIOR TO BID SUBMISSION. LACK OF A THOROUGH UNDERSTANDING OF THE PROJECT SCOPE AND CONDITIONS SHALL NOT CONSTITUTE AN EXCUSE FOR ERRORS OR OMISSIONS, NOR FOR A REQUEST FOR EXTRA COMPENSATION.
- F. A FINAL COMMISSIONING REPORT SHALL BE DELIVERED TO THE BUILDING OWNER PER SECTION C408.2.5 OF THE 2021 IECC.

KEYNOTES

- 1 4" WASTE LINE TO CONNECT TO EXISTING PLUMBING FIXTURES IN EXISTING MODULAR. PROVIDE TWO WAY CLEANOUT WITH-IN 10 FEET OF THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER.
- 2 4" WASTE TO CONNECT TO SEPTIC SYSTEM. REFER TO CIVIL FOR ALL FINAL CONNECTION POINTS AND ROUTING.
- 3 1" DCW LINE TO CONNECT TO EXISTING PLUMBING FIXTURES IN EXISTING MODULAR. PROVIDE HEAT TAPE FOR DCW PIPING LOCATED IN UNCONDITIONED SPACE FOR FREEZE PROTECTION.
- 4 1" DCW TO CONNECT TO EXISTING WATER WELL. REFER TO CIVIL FOR ALL FINAL CONNECTION POINTS AND ROUTING.

ENGINEER SEAL:



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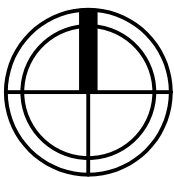
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SHEET CONTENTS:

PLUMBING PLAN -
WASTE AND VENT

SHEET NUMBER:

P111



PLUMBING PLAN
SCALE: 1" = 20'-0"