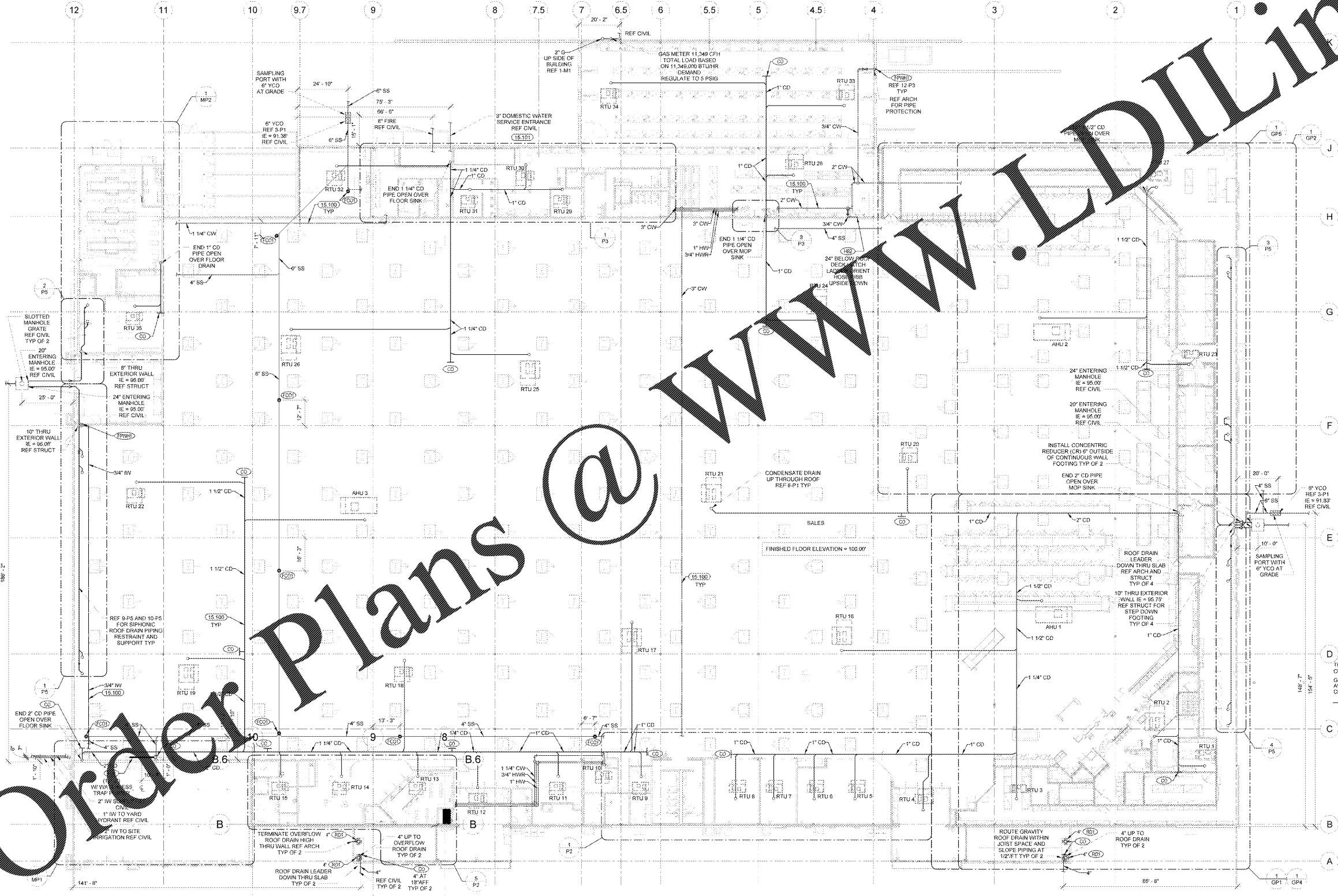


PLAN SIZE (COPPER)	POLYPROPYLENE		PEX
	HOT WATER	COLD WATER	
1/2"	1/2"	1/2"	1/2"
3/4"	3/4"	3/4"	3/4"
1"	1"	1"	1 1/4"
1 1/4"	1 1/2"	1 1/4"	1 1/2"
1 1/2"	2"	1 1/2"	2"
2"	2 1/2"	2"	N/A
2 1/2"	3"	2 1/2"	N/A
3"	3 1/2"	3"	N/A
4"	4"	4"	N/A

NOTE: REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURERS.

- ### GENERAL NOTES
- THE NATURAL GAS DEMAND SHOWN IN CUBIC FEET PER HOUR (CFH) IS BASED ON A HEATING VALUE OF 1000 BTU PER CUBIC FOOT AND SPECIFIC GRAVITY OF 0.8. CONTACT LOCAL UTILITY FOR EXACT LOCATION AND SIZE OF GAS METER, GAS PRESSURE, SIZE AND TYPE OF PIPING AND VALVES REQUIRED FOR CONNECTION TO MET. VERIFY CORRECT GAS PRESSURE DOWNSTREAM OF SERVICE REGULATOR AFTER GAS UTILITY COMPLETES INSTALLATION.
  - SANITARY SEWER PIPING SHOWN IS BASED ON 1/4" PER FOOT FALL FOR ALL PIPING 2 1/2" AND SMALLER AND 1/8" PER FOOT FALL FOR ALL PIPING 3" TO 8". COORDINATE BUILDING SEWER LOCATION AND INVERT ELEVATION WITH SEWER DRAWINGS.
  - LOCATIONS OF SPECIFIC FLOOR CLEANOUTS HAVE BEEN COORDINATED WITH ARCHITECTS. PLAN LOCATE PERMANENT CLEANOUTS ON PLANS. ADJUST PERMANENT CLEANOUTS TO FINISHED FLOOR. REFER TO FLOOR CLEANOUT DETAIL.
  - AT THE OPTION OF THE CONTRACTOR INSTEAD OF WATERLESS TRAP PRIMERS, WATERLESS TRAP PRIMERS MAY BE USED IF APPROVED BY THE AUTHORITY HAVING JURISDICTION. ADDITIONAL TRAP SEAL AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. REFER TO WATER SUPPLIER'S TRAP PRIMER DETAIL AND SPECIALTY PLUMBING FUTURE SCHEDULE.
  - PROVIDE ACCESS DOORS TO VALVES THAT ARE NOT READILY ACCESSIBLE.
  - INSTALL VTR'S A MINIMUM OF 24" FROM PARAPET WALL AND A MINIMUM OF 10 FT. FROM OUTSIDE AIR INTAKE OF ROOFTOP EQUIPMENT. REFER TO VENT THRU ROOF (VTR) DETAIL.
  - REFER TO RISER DIAGRAMS AND PLUMBING FIXTURE SCHEDULES FOR ALL PIPING AND PIPE SIZES NOT SHOWN ON PLAN.
  - FOR PIPING ROUTED ON EXTERIOR WALLS, ROUTE PIPING ON THE INTERIOR SIDE OF INSULATED WALL TO PROVIDE FREEZE PROTECTION.
  - SLOPE INTERIOR CONDENSATE PIPING AT 1/8" PER FOOT WHEN NOT INSTALLED PARALLEL TO ROOF SLOPE.
  - INSTALL CONTINUOUS SEALANT JOINT AT ALL EXTERIOR WALL PENETRATIONS.
  - AT CONTRACTOR'S OPTION, IN LIEU OF COPPER WATER PIPING, PEX OR AQUATHERM PIPING MAY BE USED. REFER TO EQUIVALENT NOMINAL PIPE SIZES SCHEDULE AND SPECIFICATIONS.
  - PIPING AND FIXTURES LOCATED ON SALES FLOOR COLUMNS SHALL BE INSTALLED ON BACK SIDE OF COLUMN.

- ### KEYNOTES
- 15.100 ROUTE PIPING THROUGH JOIST SPACE. COORDINATE WITH HVAC AND OTHER TRADES PRIOR TO INSTALLATION. DO NOT INSTALL PIPING DIRECTLY UNDER SKYLIGHT WELLS UNLESS INDICATED OTHERWISE ON PLANS. COORDINATE WITH SPRINKLER CONTRACTOR PRIOR TO INSTALLATION IN ORDER TO MAINTAIN REQUIRED CLEARANCES FROM SPRINKLERS. REFER TO PIPE SUPPORT DETAIL FOR INSTALLATION.
  - 15.101 COORDINATE 3" DOMESTIC WATER SERVICE AND WATER METER WITH AUTHORITY HAVING JURISDICTION AND CIVIL DRAWINGS. BACKFLOW PREVENTER IS CITY SUPPLIED.



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PLUMBING PLAN

SHEET: P1