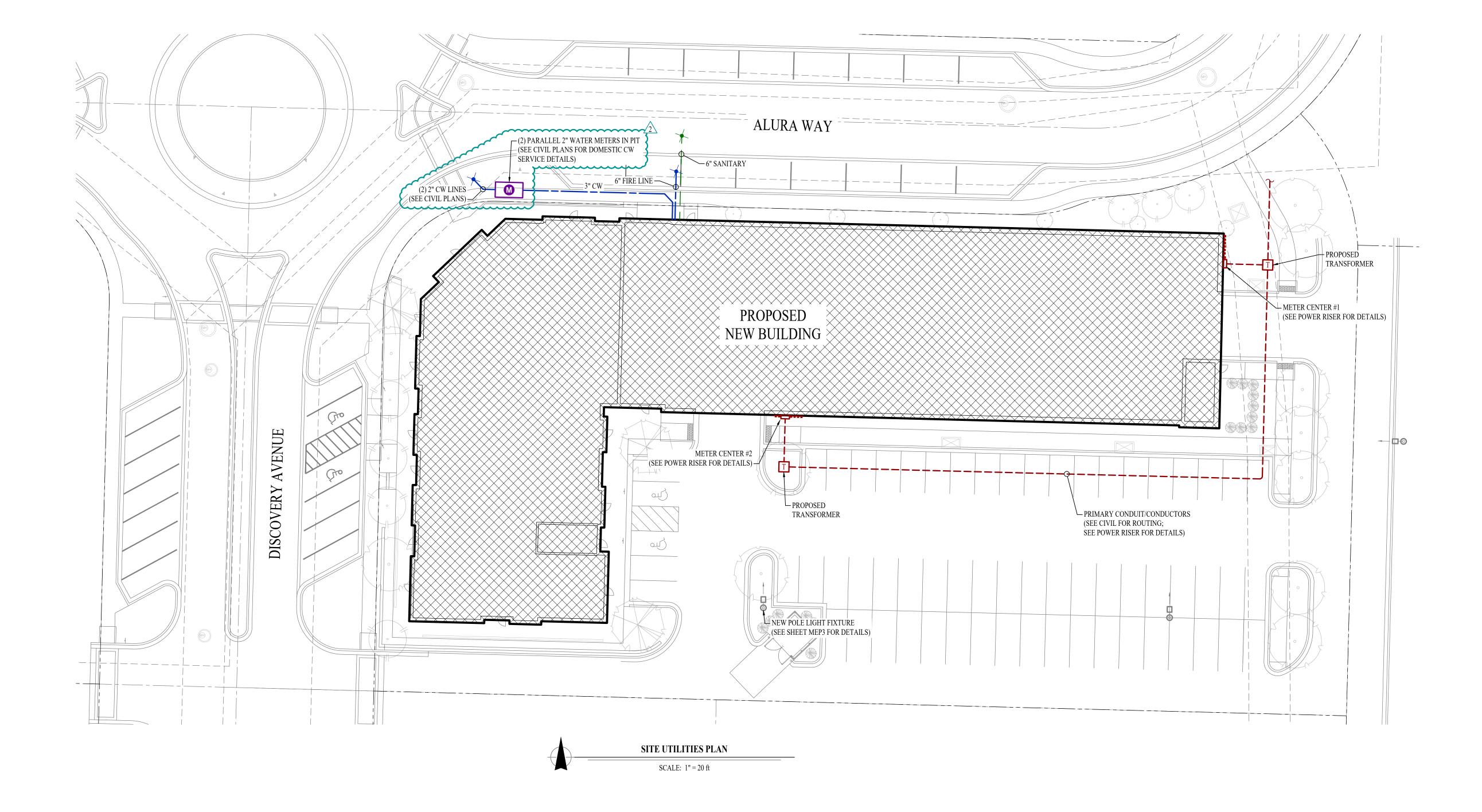
SITE UTILITIES PLAN SYMBOL LEGEND — — SANITARY SEWER PIPING ———— COLD WATER LINE WATER METER GAS METER TIE INTO EXISTING **————** ELECTRIC

SITE UTILITIES PLAN GENERAL NOTES:

REFER TO CIVIL PLANS FOR EXACT UTILITY LOCATIONS, CONNECTIONS, DETAILS, ETC.
 COORDINATE EXACT LOCATIONS OF ALL ELECTRICAL CONDUITS & EQUIPMENT WITH EVERGY.



James Watson, P.E. October 30, 2024 PE-2015017071 MO Certificate of Authority # 2018029680



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J2 PROJECT No:	J21007
J2 DESIGN:	JAP
ISSUE TITLE	DATE
CITY SUBMITTAL	01 / 25 / 2024
REVISION 2	10 / 30 / 2024

0 **Discovery**

Village

SHEET TITLE

SITE UTILITIES **PLAN**

SHEET NUMBER

PLUMBING SPECIFICATIONS

1. GENERAL

1.1. PLUMBING CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL ESCUTCHEONS, ¼ TURN STOPS, P-TRAPS, AND SUPPLY LINES TO PROVIDE A COMPLETE SYSTEM AT EACH FIXTURE INDICATED ON PLANS UNLESS NOTED OTHERWISE.

2. SANITARY 2.1. BELOW AND ABOVE GRADE WASTE AND VENT PIPING IN BUILDING TO BE SOLID CORE SCH.

40 PVC DWV. NO PIPE SMALLER THAN 2" BELOW GRADE.

WASTE AND VENT PIPING IN PLENUMS TO BE CAST IRON, OR PVC WITH AN INSULATION WRAP LISTED FOR USE AS SUCH AN ASSEMBLY.

ALL VENT PIPE TERMINATIONS ARE TO BE LOCATED EITHER 10' HORIZONTALLY OR 3' ABOVE MECHANICAL AIR INTAKE LOCATIONS.

3. DOMESTIC WATER DOMESTIC WATER PIPING TO BE EITHER COPPER OR PEX. WHERE PEX PIPING IS USED, IT SHALL BE INCREASED ONE PIPE SIZE FROM WHAT IS INDICATED ON PLANS FOR ALL

PORTIONS OF THE SYSTEM. PEX-A MAY BE INSTALLED AT SIZES INDICATED ON PLANS IF AN ENGINEERED PLAN IS

SUBMITTED SHOWING ACCEPTABLE PRESSURE DROPS AND FLUID VELOCITIES, APPROVAL MUST BE GRANTED PRIOR TO PURCHASE AND INSTALLATION. COPPER WATER PIPING BELOW GRADE SHALL BE TYPE "K". BELOW GRADE JOINTS SHALL BE

SILVER SOLDERED. THERE SHALL BE NO JOINTS IN WATER PIPING LOCATED BENEATH

BUILDING SLAB. COPPER WATER PIPING ABOVE GRADE SHALL BE TYPE "L".

PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK-CLOSE VALVES. FIXTURES REQUIRING WATER HAMMER ARRESTORS INCLUDE BUT ARE NOT LIMITED TO FLUSH VALVES, SENSOR FAUCETS, AND WASHING MACHINE BOXES. AIR CHAMBERS ARE NOT ACCEPTABLE.

ALL DOMESTIC WATER PIPING SHALL BE ROUTED WITHIN THERMAL ENVELOPE AND WITHIN WALL CAVITIES, ABOVE FINISHED CEILINGS, OR BELOW SLAB TO REMAIN CONCEALED UNLESS OTHERWISE NOTED. NOTIFY ENGINEER OF ANY NECESSARY ADJUSTMENTS THAT REQUIRE PIPING TO BE EXPOSED.

DOMESTIC WATER PIPING INSULATION

3.7.1. ALL HW PIPING, WHETHER COPPER OR PEX, SHALL BE INSULATED WITH PLENUM RATED CLOSED CELL ELASTOMERIC INSULATION. FOR PIPING LESS THAN 1½", INSULATION THICKNESS TO BE 1". FOR PIPING 1½" OR GREATER, INSULATION THICKNESS SHALL BE 1½".

CW COPPER PIPING TO INSULATED WITH 1/2" PLENUM RATED CLOSED CELL ELASTOMERIC INSULATION. CW PEX NEED NOT BE INSULATED UNLESS NOTED

PLUMBING CONNECTION SIZING SCHEDULE								
FIXTURE	SANITAR	RYPIPING	SUPPLYPIPING					
ТУРЕ	TYPICAL ABBREVIATION	WASTE CONNECTION	VENT CONNECTION	COLD WATER CONNECTION	HOT WATER CONNECTION			
DRINKING FOUNTAIN	DF	1-1/2"	1-1/4"	1/2"	-			
FLOOR DRAIN	FD	3"	2"	-	-			
HAND / HAIR SINK	HS / SK	2"	1-1/4"	1/2"	1/2"			
HOSE BIBB	HB	-	-	3/4"	-			
LAVATORY	LAV	1-1/2"	1-1/4"	1/2"	1/2"			
MOP SINK	MS	3"	1-1/2"	1/2"	1/2"			
ICE MAKER OUTLET BOX	REF		-	1/2"	-			
SHOWER	SH	3"	1-1/2"	1/2"	1/2"			
URINAL	UR	2"	1-1/4"	3/4"	-			
WATER CLOSET (FLUSH TANK)	WC	3"	2"	1/2"	-			
WATER CLOSET (FLUSH VALVE)	WC	3"	2"	1"	-			
NOTES:								
1. SIZES SHOWN ABOVE ARE TYPICAL UNLESS NOTED OTHERWISE ON PLANS								

AIR SINK	HS / SK	2"	1-1/4"	1/2"	1/2"	EX	P EXPANSION TANK	WATTS	DETA-100	
BIBB	HB	-	-	3/4"	-	FC	D FLOOR CLEAN OUT	ZURN	Z1400	
ORY	LAV	1-1/2"	1-1/4"	1/2"	1/2"	FD	1 FLOOR DRAIN	ZURN	Z415-BZ	WITH Z1072 TRAP SEAL
INK	MS	3"	1-1/2"	1/2"	1/2"	FPH	B FROST PROOF HOSE BIB	WOODFORD	MODEL 67	
UTLET BOX	REF		-	1/2"	-	FPF	H FROST PROOF ROOF HYDRANT	WOODFORD	SRH-MS	
VER	SH	3"	1-1/2"	1/2"	1/2"	FS	FLOOR SINK	ZURN	FD 237 0	
AL	UR	2"	1-1/4"	3/4"	-	Н	HOSE BIB	JR SMITH	5670-H	INTEROR HOSE BIB WITH VACUUM BREAKER
(FLUSH TANK)	WC	3"	2"	1/2"	-	LA	/1 LA VA TORY - INTEGRAL BOWL	-	-	WITH PFISTER #G142-8000 CHROME FAUCET
(FLUSH VALVE)	WC	3"	2"	1"	-	LA	LA VATORY (WALL HUNG W/MANUAL FAUCET)	AMERICAN STANDARD	0355.012	WITH ZURN Z81104-XL FAUCET, 1/4 TURN STOPS, BRAIDED STAINLESS STEEL SUPPLIES, TRUBRO LAV GUARD 2, & 'TMV1'
						RD	1 ROOF DRAIN	ZURN	Z100	
ABOVE ARE TYPIC	CAL UNLESS NOTE	OTHERWISE ON P	PLANS			RE	1 REFRIGERATOR BOX	SIOUX CHIEF	696-G1000	
						REI	1 REFRIGERATOR BOX	SIOUX CHIEF	696-G1000	
					_	RH	1 ROOF HYDRANT	WOODFORD	SRH-MS	
						SK	1 KITCHEN SINK	DAYTON	DSESR12722	WITH PFISTER #F-529-CRS FAUCET,ISE DISPOSAL #BADGER-1 & STS-00 AIR SWITCH
						SP	1 SUMP PUMP	ZOELLER	153-0002	120V, 1/2 HP WITH "OIL MINDER" CONTROLS
						ТМ	VI THERMOSTATIC MIXING VALVE - POINT OF USE	WATTS	LFUSG	
						TUI	TUB / SHOWER	AQUARIS	G6030TS	WITH PFISTER R89-0300 SHOWER TRIM KIT
						TUI	32 ADA TUB / SHOWER	AQUATIC	2603SMTE	WITH GRABBARS & ADA HANDHELD SHOWER ASSEMBLY
						WI	WA SHER BOX	SIOUX CHIEF	696-G2303	
						WO	WATER CLOSET - STANDARD HEIGHT - TANK	AMERICAN STANDARD	215CA.004	WITH CHURCH 7200SLEC SEAT AND COVER, STAINLESS BRAIDED SUPPLY, AND 1/4 TURN SHUT-OFF.
						WO	2 WATER CLOSET - ADA HEIGHT - TANK	AMERICAN STANDARD	215AA.004	WITH CHURCH 7200SLEC SEAT AND COVER, STAINLESS BRAIDED SUPPLY, AND 1/4 TURN SHUT-OFF.
						WI	II WATER HEATER - ELECTRIC - LOWBOY	AO SMITH	ECLB-40	38 GALLON, 208V 1PH, 4500W; WITH 'EXP1'
						WI	2 WATER HEATER - ELECTRIC - POINT OF USE	AO SMITH	EGSP6	6 GALLON, 120V, 1500W WITH HOLDRITE #40-SWHP-W WALL HUNG PLATFORM; WITH 'EXP1'
						YC	O YARD CLEAN OUT	ZURN	Z1400	
						NOT	ES: 1. VERIFY NECESSARY FIXTURES MEET ADA REQU	TREMENTS WITH ARCHITECT F	PRIOR TO INSTALLATI	ON

DESCRIPTION

AIR ADMITTANCE VALVE

BACKFLOW PREVENTER

DOWNSPOUT NOZZLE

AAV

BFP1

DN1

PLUMBING FIXTURE SCHEDULE

(OR EQUAL)

39020

975XL2

Z199

1.5" - 6 DFU MAX

RPZ - SIZE AS INDICATED ON PLANS

NOTES

RH1

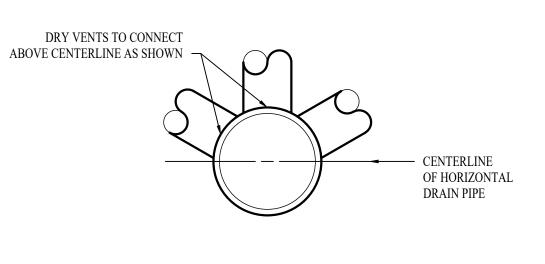
MANUFACTURER

(OR EQUAL)

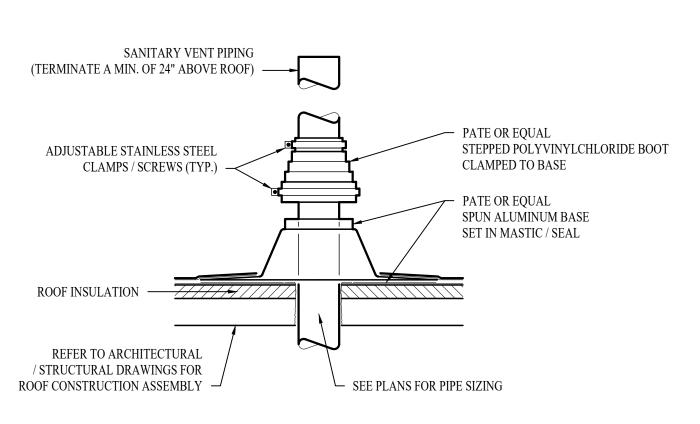
OATEY

WILKINS

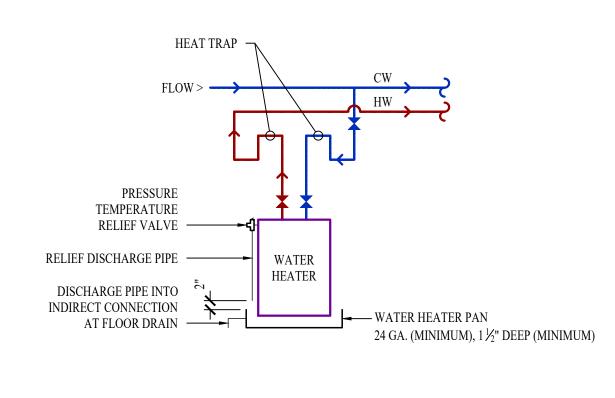
ZURN



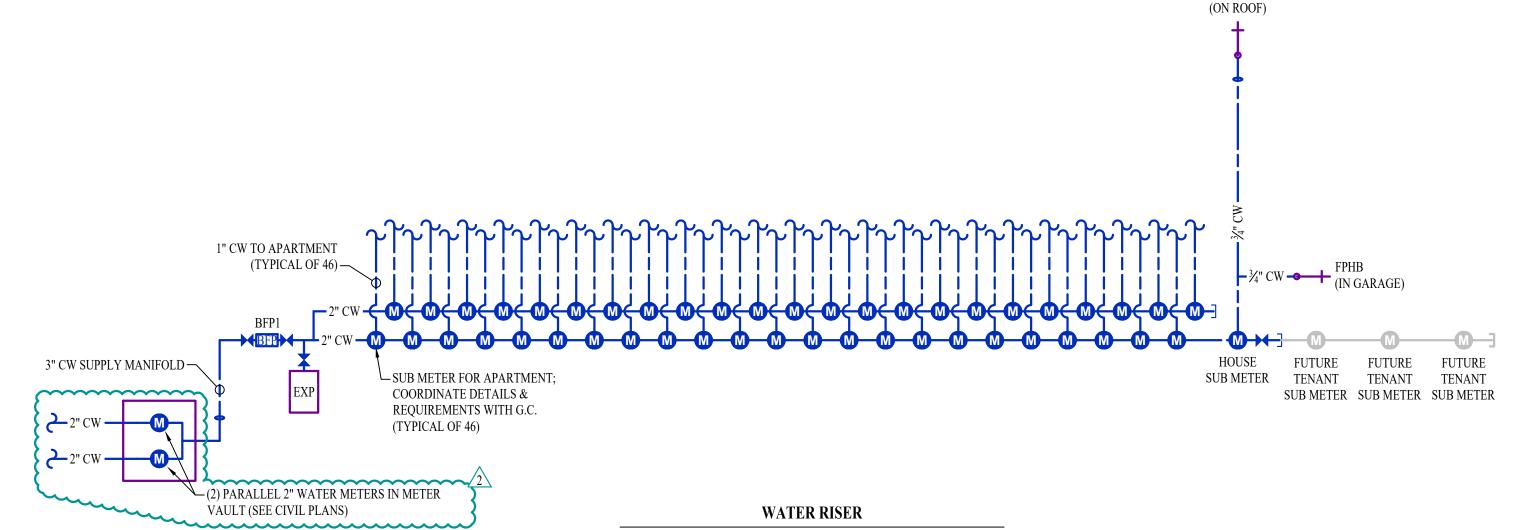
DRY VENT DETAIL



SANITARY VENT THRU ROOF DETAIL



WATER HEATER DETAIL



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Discover

illage

SHEET TITLE

PLUMBING DETAILS & SCHEDULES

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