

FIRE PROTECTION NOTES:

- PROVIDE A COMPLETE FULLY AUTOMATIC WET PIPE SYSTEM HYDRAULICALLY CALCULATED IN ACCORDANCE WITH THE STATE FIRE MARSHAL AND THE LATEST EDITION N.F.P.A. 13, 14, AND REQUIREMENTS OF ALL LOCAL AUTHORITIES HAVING JURISDICTION.
- ALL FIRE PROTECTION EQUIPMENT, I.E. PIPING, VALVES, FITTINGS AND ACCESSORIES, ETC. SHALL BE RATED FOR A MAXIMUM WORKING PRESSURE OF 250 PSI.
- PROVIDE PRESSURE REDUCING VALVES AT ALL SPRINKLER SYSTEM AND FIRE DEPARTMENT HOSE CONNECTIONS WHERE PRESSURES EXCEED 175 PSIG IN ACCORDANCE WITH CODE REQUIREMENTS. CONTRACTOR SHALL FIELD PRESSURE TEST SYSTEM AND DETERMINE WHERE PRESSURE REDUCING VALVES ARE REQUIRED.
- USE PIPING AND FITTINGS FOR FIRE SUPPRESSION SYSTEMS WHICH ARE APPROVED FOR USE BY UNDERWRITERS' LABORATORIES AND FACTORY MUTUAL SYSTEM AND OF THE FOLLOWING TYPES; AND IN ACCORDANCE WITH NFPA, LOCAL CODES ALL AUTHORITIES HAVING JURISDICTION.
 - o) **BLACK STEEL PIPING:** MANUFACTURED TO SATISFY ASTM STANDARDS A53 OR A135.
- ALL SPRINKLER PIPING SHALL BE INSTALLED SO THAT ALL PORTIONS OF THE SYSTEM CAN BE DRAINED BACK THROUGH THE DRAIN VALVE WHERE REQUIRED. PROVIDE DRAIN VALVES FOR ALL TRAPPED PORTIONS OF THE SYSTEM.
- ALL FIRE EQUIPMENT THREADS SHALL CONFORM TO LOCAL FIRE DEPARTMENT STANDARDS.
- ALL CONTROL VALVES - CHECK VALVES AND FLOW ALARM SWITCHES LOCATED ABOVE FINISHED CEILING SHALL BE ACCESSIBLE AND HAVE A NOTIFICATION MARKING TAG AS REQUIRED FOR INSPECTION VERIFICATION.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL PLUMBING/SPRINKLER PIPING TO MAINTAIN PROPER CLEARANCES OVER AREA.

PLUMBING NOTES:

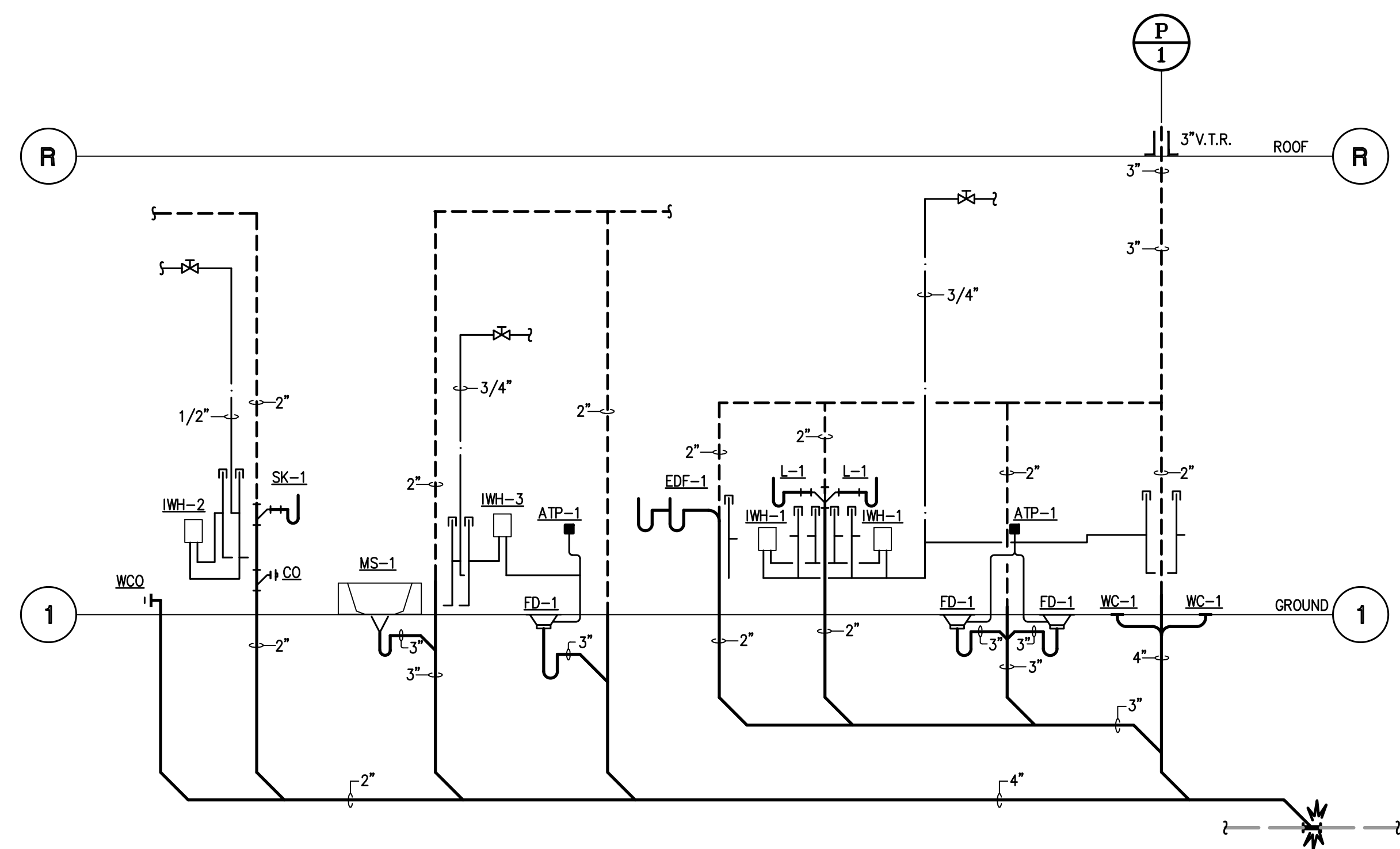
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH 2006 INTERNATIONAL PLUMBING CODE.
- ALL SOIL AND WASTE PIPING SHALL BE INSTALLED AT A MAXIMUM OF 1/8" (1%) PER FOOT GRADE UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- PIPING AND/OR EQUIPMENT SHALL NOT BE SUPPORTED FROM STRUCTURAL MEMBERS WITHOUT PRIOR REVIEW AND APPROVAL FROM THE STRUCTURAL ENGINEER.
- CONTRACTOR IS PROHIBITED FROM USING LEAD-BASED SOLDER.
- PROVIDE ONE (1) TRAP PRIMER VALVE FOR EACH FLOOR DRAIN WITHOUT A CONSTANT SOURCE OF WATER SUPPLY TO MAINTAIN TRAP SEAL. PRIMER VALVE SHALL BE LOCATED IN AN ACCESSIBLE AREA AND CONNECTED TO THE NEAREST 3/4" COLD WATER LINE SERVING A FIXTURE.
- BACK FLOW PREVENTER ASSEMBLY SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION (APPROXIMATELY 4'-0" A.F.F.). PIPE RELIEF VALVE DISCHARGE PIPING TO NEAREST FLOOR DRAIN. DO NOT INSTALL ABOVE FINISHED CEILINGS.
- DOUBLE CHECK VALVE ASSEMBLY SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION (APPROXIMATELY 4'-0" A.F.F.). DO NOT INSTALL ABOVE FINISHED CEILINGS.
- ALL PLUMBING FIXTURES AND EQUIPMENT SHALL CONFORM TO ALL APPLICABLE ENERGY CONSERVATION CODES.
- ALL PIPING, VALVES, AND ACCESSORIES SERVING EQUIPMENT SHALL CONFORM TO ALL APPLICABLE ENERGY CONSERVATION CODES.
- ANCILLARY SYSTEMS NOT ASSOCIATED WITH EQUIPMENT SHALL NOT BE INSTALLED SO AS TO INHIBIT SERVICING AND/OR REMOVAL OF SAID EQUIPMENT.
- STERILIZE DOMESTIC WATER PIPING SYSTEM IN ACCORDANCE WITH STATE AND LOCAL CODES, AND BASE BUILDING SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN ON-SITE FLOW TEST AT THE NEAREST FIRE HYDRANT. THE RESULTS OF THIS TEST SHALL BE SUBMITTED TO THE ENGINEER OF RECORD UPON COMPLETION OF THE TEST.

GENERAL NOTES:

- ALL CONTRACT DOCUMENTS (SPECIFICATIONS AND DRAWINGS), I.E., ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL ARE COMPLEMENTARY AND MUST BE USED IN COMBINATION TO OBTAIN COMPLETE CONSTRUCTION INFORMATION.
- ALL CONFLICTS, WHICH MAY PREVENT THE COMPLETION OF WORK AS INTENDED, SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION. THE CONTRACTOR SHALL NOT PROCEED WITH ANY RELATED WORK UNTIL ALL CONFLICTS ARE RESOLVED AND THE CLARIFYING INFORMATION IS ISSUED TO THE CONTRACTOR BY THE ARCHITECT.
- IT IS THE INTENTION OF THESE DRAWINGS TO CALL FOR FINISHED WORK, I.E., FULLY ADJUSTED, TESTED, AND READY FOR OPERATION, WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN, "FURNISH AND INSTALL COMPLETE AND READY FOR USE."
- THE PLUMBING DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY COMPONENT AND/OR ACCESSORY REQUIRED FOR A COMPLETE INSTALLATION. THE CONTRACTOR SHALL INCLUDE SUCH ITEMS AS ARE REQUIRED TO ENSURE THAT THE ENTIRE SYSTEM IS FUNCTIONING IN COMPLIANCE WITH APPLICABLE CODES, ACCEPTED INDUSTRY STANDARDS, AND MANUFACTURER'S INSTALLATION REQUIREMENTS/RECOMMENDATIONS UPON COMPLETION OF THE WORK.
- ALL CUTTING, DRILLING AND PATCHING OF WALLS, FLOORS, AND/OR STRUCTURAL MEMBERS FOR THE INSTALLATION OF THE PLUMBING AND FIRE PROTECTION SYSTEMS SHALL BE PROVIDED. STRUCTURAL COMPONENTS SHALL NOT BE CUT, DRILLED OR MODIFIED IN A WAY WITHOUT THE STRUCTURAL ENGINEER'S REVIEW AND PRIOR WRITTEN APPROVAL.
- PROVIDE NFPA APPROVED FIRE STOPPING WHERE PIPES PENETRATE FIRE RATED FLOORS AND WALLS.

SYMBOL	DESCRIPTION	SIZE OF CONNECTION					REMARKS	WATER CONSERVATION
		TRAP	SS	SV	CW	HW		
TS-1	TIME SWITCH	-	-	-	3/4"	-	TORK ELECTROMECHANICAL 24 HOUR TIME SWITCH POWERED BY A SELF STARTING SYNCHRONOUS MOTOR. INSTALL ON WALL ADJACENT TO CIRCULATING PUMP. COORDINATE WITH ELECTRICAL AND PROVIDE FOR 120/1/60 HZ POWER REQUIREMENT.	
ATP-1	AUTOMATIC TRAP PRIMER	-	-	-	1/2"	-	PRECISION PRODUCTS "PRIME-RITE" TRAP PRIMER MODEL # PRO1-500.	
TMV-1	THERMOSTATIC MIXING VALVE	-	-	-	1/2"	-	SYMMONS NO #8210CK THERMOSTATIC MIXING VALVE CONSTRUCTION SHALL BE ROUGH BRASS AND BRONZE WITH BRASS AND STAINLESS STEEL FLOW CONTROL COMPONENTS, WITH INTEGRAL CHECKS AND VALVES. 360 DEGREES HANDLE ADJUSTMENT FOR TEMPERATURE SELECTION. Ø 110 F. MAX	
MS-1	SERVICE SINK	3"	3"	2"	1/2"	1/2"	STERN WILLIAMS MODEL No. SB-902-BP-2 -LB OR APPROVED EQUAL WHITE (24"x24") SERVICE SINK WITH 10" HIGH WALLS, 3" STAINLESS STEEL COMBINATION DOME STRAINER AND LINT BASKET OUTLET, ACID RESISTANT, MOLDED STONE (COLOR AS SPECIFIED BY ARCHITECT). REMOVABLE VINYL-COATED RIM GUARD No. V-70-24. SINK FITTING CHICAGO 897-ROF OR T&S No. B-0665-BSTR ROUGH CHROME PLATED BRASS FINISH, RIGID SPOUT, WALL BRACE, INTEGRAL STOPS, PAIL HOOK, HOSE END, VACUUM BREAKER AND VANDAL PROOF SCREWS. PROVIDE 30" HOSE (MINIMUM) WITH STAINLESS STEEL BRACKET (EQUAL TO STERN - WILLIAMS No. T-35) AND STAINLESS STEEL MOP HANGER (EQUAL TO STERN - WILLIAMS No. T-40). PROVIDE 12" HIGH, 20 GAUGE TYPE 316 STAINLESS STEEL SPLASH GUARDS ON ALL WALLS ADJACENT TO THE SERVICE SINK. PROVIDE AND INSTALL INTERNAL WALL SUPPORTS IN ACCORDANCE WITH THE ARCHITECTS REQUIREMENTS FOR THE WALL BRACE ATTACHMENTS.	
FD-1	FLOOR DRAIN	3"	3"	2"	1/2"	-	J.R. SMITH FIGURE No. 2005Y-A06NB-P OR APPROVED EQUAL PAINTED CAST IRON FLOOR DRAIN AND SEEPAGE FLANGE, SIZE AS NOTED ON DRAWINGS, CLAMPING UNIT, QUAD CLOSE TRAP SEAL, AND 6" ROUND ADJUSTABLE POLISHED NICKEL BRONZE STRAINER TYPE TOP AND DEEP SEAL TRAP.	
EDF-1	ELECTRIC DRINKING FOUNTAIN	1-1/4"	2"	2"	1/2"	---	ELKAY EMABFLDDLC ADA BARRIER-FREE TWO LEVEL WALL MOUNT FOUNTAIN. MCGUIRE NO. 8088 CHROME-PLATED ADJUSTABLE P-TRAP WITH CLEANOUT PLUG, 1-1/4" TRAP NIPPLE AND CHROME-PLATED STOP VALVE IN COLD WATER LINE. LOCATED INSIDE CABINET. REFER TO ARCHITECT FOR MOUNTING HEIGHTS.	
WC-1	WATER CLOSET	-	4"	2"	1"	-	KOHLER NO. K-25077 "KINGSTON" 1.28 GPF 15" VITREOUS CHINA, FLOOR MOUNTED SIPHON JET WATER CLOSET WITH ELONGATED BOWL, SLOAN 8111-1.28 HIGH EFFICIENCY (1.28 GPF) FLUSH VALVE WITH SCREW DRIVER STOP AND PROTECTIVE CAP ON STOP. CHURCH 9500C WHITE FRONT SEAT WITH CONCEALED STAINLESS STEEL SELF-SUSTAINING AND EXTERNAL CHECK HINGE.	
L-1	LAVATORY HANDICAPPED	1 1/4"	2"	2"	1/2"	1/2"	KOHLER NO. K-2035-1 "PINOIR" 20" X 18" VITREOUS CHINA, WALL HUNG MOUNTED LAVATORY KOHLER K-27415-4 "TONE" FITTING WITH NO. 317 HANDLE, 6" SPOUT AND MCGUIRE # 8872 CAST BRASS P-TRAP WITH CLEANOUT PLUG, MCGUIRE # 155A CAST BRASS P.O. PLUG WITH OPEN GRID STRAINER AND 17 GAUGE TAILPIECE, MCGUIRE # 2165LK SUPPLIES WITH RISER AND WALL ESCUTCHEON. ZURN FLR. MTD. CARRIER/ RECTANGULAR UPRIGHTS. ANGLE SUPPLY AND P-TRAP SHALL BE INSULATED WITH TRAP WRAP BY BROCAR PRODUCTS, INC. OR APPROVED EQUAL.	
SK-1	SINK HANDICAPPED	1-1/2"	2"	2"	1/2"	1/2"	ELKAY NO. ELGUAD2519PD SINGLE COMPARTMENT STAINLESS STEEL DROP-IN/UNDER-MOUNT SINK, 18 GAUGE SELF-RIMMING (25" x 18" x 6" DEEP), ELKAY LKAV3031 "AVADO", PROVIDE TMV-1, RIGID/SWING GOOSENECK SPOUT WITH E3-2 AERATOR, CHICAGO NO. 1017, ANGLE SUPPLIES WITH STOP, 1/2" CHROME-PLATED BRASS NIPPLES TO WALL, MCGUIRE NO. 151-A CRUMB CUP STRAINER, No. 8912 (1-1/2") ADJUSTABLE SEMI-CAST CHROME-PLATED BRASS P-TRAP WITH TUBING WASTE TO WALL AND CHROME-PLATED CAST WALL FLANGE WITH SET SCREW SUPPLIES, AND P-TRAP SHALL BE INSULATED WITH TRAP WRAP BY PLUMBEREX SPECIALTY PRODUCTS, INC. OR APPROVED EQUAL.	

ELECTRIC TANKLESS WATER HEATER SCHEDULE						
MARK	SERVICE	STORAGE IN GALLONS	RECOVERY AT 100' RISE	ELECTRICAL	ELEMENT WATTAGE	MAKE AND MODEL
IWH-1	INSTANTANEOUS WATER HEATER (LAVATORY)	---	---	240/18/60Hz	5.5kw	EEMAX TANKLESS MODEL SPEX55T "LAVADVANTAGE" CONNECTION - 0.2 GPM MIN.
IWH-2	INSTANTANEOUS WATER HEATER (SINK)	---	---	240/18/60Hz	11.5kw	EEMAX TANKLESS MODEL SPEX012240T "LAVADVANTAGE" CONNECTION - 0.2 GPM MIN.
IWH-3	INSTANTANEOUS WATER HEATER (MOP-SINK)	---	---	240/18/60Hz	13.0kw	EEMAX TANKLESS MODEL PRO13240 "PROSERIES" CONNECTION - 0.3 GPM MIN.



01 PLUMBING RISER DIAGRAM
SCALE: NONE

PLUMBING LEGEND

SYMBOL	DESCRIPTION
---	SANITARY SEWER PIPING
----	VENT PIPING
----	DOMESTIC COLD WATER
----	DOMESTIC HOT WATER
----	DOMESTIC HOT WATER RETURN
----	EXISTING SANITARY SEWER PIPING
----	EXISTING VENT PIPING
----	EXISTING DOMESTIC COLD WATER
----	EXISTING HOT WATER
----	EXISTING HOT WATER RETURN
----	NEW CONNECTION TO EXISTING
----	ABOVE FINISHED FLOOR
----	BELOW FLOOR
----	GATE VALVE
----	CHECK VALVE
----	PRESSURE RELIEF VALVE
----	UNION
----	PRESSURE GAUGE
----	THERMOMETER
----	CONDENSATE DRAIN LINE
(E)	EXISTING
(D)	ITEMS TO BE REMOVED
----	ELBOW UP
----	ELBOW RISE OR DN. THROUGH SLAB
----	FLOOR CLEANOUT
----	CLEANOUT
----	FLOOR DRAIN

DISREGARD LEGEND ITEMS NOT INDICATED ON DRAWINGS

PIPING MATERIAL SCHEDULE

PIPING FUNCTION	PIPING MATERIAL
SANITARY WASTE BELOW GRADE	SCHEDULE 40 PVC
SANITARY WASTE ABOVE GROUND	NO-HUB CAST IRON
SANITARY VENT	NO-HUB CAST IRON
DOMESTIC HOT & COLD WATER	COPPER, TYPE "L" HARD DRAWN
FIRE SPRINKLER ABOVE GROUND	BLACK STEEL SCHEDULE 40

NOTE:
NO HUB COUPLING SHALL HAVE A SHIELD CONSTRUCTED OF 304 CORRUGATED STAINLESS STEEL WITH A MINIMUM THICKNESS OF .016. COUPLING SIZE 1-1/2" 4" SHALL HAVE FOUR (4) BANDS; APPROX MANUFACTURES HUSKY SD 4000 AND MISSION. NO TWO BANDS ARE ACCEPT

LEGEND OF PLUMBING SYMBOLS

DISREGARD LEGEND ITEMS NOT INDICATED ON DRAWINGS							
FIXTURES							
SYMBOLS	DESCRIPTION	SIZE OF CONNECTION					
		SANITARY	TRAP	VENT	C.W.	H.W.	L.W.
WC	WATER CLOSET (FLUSH VALVE)	4"	-	2"	1"	-	-
U	URINAL	2"	-	2"	3/4"	-	-
L	LAVATORY	2"	1-1/4"	1-1/4"	1/2"	1/2"	-
BT	BATH TUB	2"	1-1/2"	1-1/2"	1/2"	1/2"	-
MS	MOP SINK	-	2"	2"	1/2"	1/2"	-
SK-X	SINK (BY ARCHITECT)	-	1-1/2"	2"	1/2"	1/2"	-
SH	SHOWER	-	2"	2"	1/2"	1/2"	-
EDF	ELECTRIC DRINKING FOUNTAIN	-	1-1/4"	1-1/4"	1/2"	-	-
DF	DRINKING FOUNTAIN	-	1-1/4"	1-1/4"	1/2"	-	1/2"



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ACORN GOLF SIMULATOR
13825 Timber Forest Dr, Houston, TX 77044
SUITE 103

ISSUED FOR CLIENT APPROVAL	DATE
ISSUED FOR BIDDING	04/09/2026
ISSUED FOR PERMIT	
ISSUED FOR CONSTRUCTION	

REVISIONS		
MARK	DESCRIPTION	DATE
	REVIEW SET	03/27/2026
	ISSUE FOR BID SET	04/09/2026

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DESIGN TEAM	
PM:	JG
MECHANICAL:	CC
ELECTRICAL:	JG
CHECKED-BY:	

DRAWING TITLE
PLUMBING INFORMATION

SHEET NO.	P-1.00
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EIBIE Mechanical Electrical Plumbing
CONSULTING ENGINEERING
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