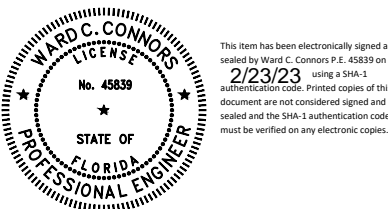


901
Northpoint Parkway
Suite 101
West Palm Beach
Florida 33407



Ruben Ortega Blanco, P.E. 90845
Ward C. Connors, P.E. 45839

New Kitchen Facility for



701 Boutwell Road
Lake Worth, FL 33461



Project No. 22.046
24 February 2023
Bidding, Permit and
Construction

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JLRD PROJECT NO:
122110

<p>1. ALL WORK AND MATERIALS SHALL COMPLY WITH THE 2020 FLORIDA PLUMBING CODE AND ANY LOCAL CODES HAVING JURISDICTION.</p> <p>2. FIELD VERIFY AND CONFIRM THE ACTUAL SIZE, LOCATION, AND ELEVATION OF EXISTING UTILITIES AND PLUMBING PIPING PRIOR TO INSTALLATION OR CONNECTION OF ANY NEW PIPING. ANY DISCREPANCIES OR POSSIBLE CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT.</p> <p>3. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND AS SUCH ALL FITTINGS AND OFFSETS MAY NOT BE INDICATED. PROVIDE FITTINGS AND OFFSETS AS REQUIRED TO PROVIDE A COMPLETE AND PROPERLY INSTALLED PLUMBING SYSTEM.</p> <p>4. CONFIRM LOCATIONS AND ELEVATIONS OF ALL CROSSING LINES PRIOR TO INSTALLATION OF NEW PIPING. GRAVITY DRAIN PIPING ROUTING SHALL TAKE PRECEDENT OVER PRESSURIZED PIPE SYSTEMS. PROVIDE OFFSETS AS REQUIRED. ANY DISCREPANCIES OR POSSIBLE CONFLICTS SHALL BE BROUGHT TO THE ENGINEER AND ARCHITECT.</p> <p>5. COORDINATE PLUMBING SYSTEMS INSTALLATION WITH ALL OTHER INVOLVED TRADES, SUCH AS FIRE PROTECTION, MECHANICAL DUCTWORK AND PIPING, AND ELECTRICAL SYSTEMS. THIS CONTRACTOR SHALL OBTAIN COPIES OF THE LATEST PHSI SPECIFICATIONS, AND ADDENDUMS OF ALL OTHER TRADES TO COORDINATE THESE SYSTEMS WITH OTHER TRADES INSTALLATIONS.</p> <p>6. PROVIDE SHUT OFF VALVES IN HOT AND COLD WATER LINES SERVING EACH GROUP TOILET ROOM AND EACH SINGLE TOILET ROOM. LOCATE THE VALVES IN AN ACCESSIBLE LOCATION. WHEN INSTALLED ABOVE CEILINGS, LOCATE ABOVE A LAY-IN CEILING TILE, OR IN HARD CEILINGS PROVIDE A HINGED ACCESS PANEL SIZED TO ALLOW FULL ACCESS TO THE VALVES (MINIMUM SIZE 18" X 18"). PROVIDE A LABEL ON THE CEILING TILE GRID OF ON THE ACCESS PANEL INDICATING "HOT AND COLD WATER SHUT OFF VALVES".</p>	<p>7. THE POTABLE WATER SYSTEMS IN THIS FACILITY SHALL BE DISINFECTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND APPLICABLE SPECIFICATION SECTIONS INCLUDED IN THE DESIGN PACKAGE. DISINFECT ALL NEW PORTIONS OF PIPING AND ALSO ANY EXISTING PIPING THAT HAS LOST PRESSURE DURING CONSTRUCTION.</p> <p>8. PIPE HANGERS FOR COPPER PIPING SHALL BE COPPER TYPE OR VINYL COATED. HANGERS FOR OTHER TYPES OF PIPING SHALL BE GALVANIZED OR ZINC PLATED. PROVIDE MISCELLANEOUS STRUCTURAL STEEL CROSSMEMBER TO SPAN ACROSS BEAMS, JOIST, OR PURLINS WHERE REQUIRED FOR INTERMEDIATE SUPPORT.</p> <p>9. PROVIDE A 2" HIGH GALVANIZED SAFETY PAN BELOW ALL WATER HEATERS. PROVIDE A 3/4" DRAIN LINE FROM THE SAFETY PAN AND TERMINATE OVER NEAREST FLOOR DRAIN OR SERVICE SINK. ROUTE COPPER DISCHARGE LINE FROM WATER HEATER PRESSURE TEMPERATURE RELIEF VALVE AND TERMINATE OVER SAFETY PAN.</p> <p>10. PRESSURE TEST PLUMBING PIPING SYSTEMS PRIOR TO CONCEALMENT IN ACCORDANCE WITH THE SPECIFICATIONS.</p> <p>A. WATER PIPING SHALL BE TESTED AT 100 PSI MINIMUM FOR A PERIOD OF 8 HOURS.</p> <p>B. SANITARY AND STORM SYSTEMS SHALL BE TESTED AT 10 FEET OF HEAD PRESSURE FOR A PERIOD OF 8 HOURS.</p> <p>11. PROVIDE WATER HAMMER ARRESTERS THROUGHOUT THE WATER PIPING SYSTEM LOCATED TO PREVENT ANY WATER HAMMER VIBRATIONS AND NOISE. PROVIDE WATER HAMMER ARRESTERS IN HOT WATER AND COLD WATER PIPES. LOCATE AT ALL GROUP RESTROOMS, SINGLE RESTROOMS, IN PIPING SERVING FLUSH VALVES, AND IN PIPING SERVING OTHER FIXTURES OR EQUIPMENT THAT HAS QUICK CLOSING VALVES OR ACTUATORS THAT WOULD CAUSE POTENTIAL WATER HAMMER. DO NOT PROVIDE PIPE AIR CHAMBERS AT PLUMBING FIXTURES AS THESE ARE NOT AN ACCEPTABLE ALTERNATE TO WATER HAMMER ARRESTERS.</p>	<p>12. PROVIDE TRAP PRIMERS WHERE SHOWN AT FLOOR DRAINS. TRAP PRIMER LINE SHALL CONNECT FROM THE DISCHARGE SIDE OF A WATER CLOSET FLUSH VALVE. IF A FLUSH VALVE IS NOT READILY AVAILABLE, CONNECT TRAP PRIMER LINE FROM THE TAILPIECE OF A LAVATORY. OTHERWISE, PROVIDE AN SOLENOID TYPE TRAP PRIMER VALVE AND DISTRIBUTION UNIT FROM AN AVAILABLE COLD WATER LINE. IN FINISHED SPACES SUCH AS RESTROOMS, ROUTE THE TRAP PRIMER LINE BACK INTO THE WALL AND PROVIDE A CHROME PLATED ESCUTCHEON PLATE, THEN DROP TO BELOW FLOOR TO THE FLOOR DRAIN. IN UNFINISHED SPACES SUCH AS MECHANICAL ROOMS, ROUTE THE TRAP PRIMER LINE DOWN ALONG THE WALL SURFACE TO BELOW FLOOR TO THE FLOOR DRAIN. ALL TRAP PRIMER LINES IN WALLS AND BELOW FLOORS SHALL BE WRAPPED WITH PROTECTIVE INSULATING TAPES TO PREVENT CONTACT BETWEEN THE PIPE AND CONCRETE OR BELOW FLOOR SOIL. PIPING SHALL BE COPPER.</p> <p>13. PIPE SIZES GREATER THAN 4 INCHES, RESTRAINTS SHALL BE PROVIDED FOR DRAIN PIPES AT ALL CHANGES IN DIRECTION AND AT ALL CHANGES IN DIAMETER GREATER THAN TWO PIPE SIZES. BRACES, BLOCKS, RODDING AND OTHER SUITABLE METHODS AS SPECIFIED BY THE COUPLING MANUFACTURER SHALL BE UTILIZED.</p> <p>14. ALL DOMESTIC HOT WATER PIPING SHALL BE INSULATED, INCLUDING HOT WATER SUPPLY, TEMPERED (MIXED TEMPERATURE) SUPPLY, AND HOT WATER RECIRCULATING PIPING. INSULATION SHALL BE 1" THICK PREFORMED SECTIONAL HEAVY DENSITY FIBERGLASS INSULATION APPLIED FACTORY APPLIED VAPOR BARRIER AND AL SERVICE JACKET WITH SELF SEALING LONGITUDINAL LAPS AND BUTT-STRIIPS AND SHALL BE CONTINUOUS UN-BROKEN THROUGH HANGERS AND SUPPORT CLAMPS. FITTINGS SHALL BE INSULATED SAME AS PIPE WITH ONE PIECE PVC FITTING COVERS. COLD WATER PIPING ROUTED IN ATTICS OR OTHER SPACES OUTSIDE OF THE BUILDING THERMAL ENVELOPE SHALL BE INSULATED THE SAME AS HOT WATER PIPING.</p>	<p>15. ALL HOSE BIBBS AND WALL HYDRANTS SHALL BE EQUIPPED WITH AN INTEGRAL VACUUM BREAKER. PROVIDE A SHUT OFF VALVE IN THE WATER SUPPLY PIPE SERVING EACH HOSE BIBB AND WALL HYDRANT. INTERIOR BIBBS SHALL BE MOUNTED 12" ABOVE FLOOR, EXTERIOR BIBBS SHALL BE LOCATED 12" ABOVE GRADE.</p> <p>16. THIS CONTRACTOR SHALL COORDINATE EXACT LOCATION AND QUANTITY OF FLOOR DRAINS WITH THE ARCHITECTURAL PLANS. COORDINATE LOCATIONS OF MECHANICAL ROOMS FLOOR DRAINS AND HUB DRAINS FOR HVAC EQUIPMENT CONDENSATE DISCHARGE WITH THE MECHANICAL CONTRACTOR AND THE EXACT LOCATION OF ANY HVAC EQUIPMENT AND CONCRETE PADS.</p> <p>17. ALL HANDICAP ACCESSIBLE PLUMBING FIXTURES SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA). COORDINATE HANDICAP ACCESSIBLE FIXTURE WITH THE ARCHITECTURAL DRAWINGS AND PLAN REQUIREMENTS PRIOR TO ORDERING PLUMBING FIXTURES. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER AND ARCHITECT.</p> <p>18. ALL PIPES, PIPE FITTINGS, PLUMBING FITTINGS AND PLUMBING FIXTURES SHALL MEET THE REQUIREMENTS OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) AND THE REQUIREMENT OF NO MORE THAN 0.25 PERCENT LEAD ON ALL POTABLE WETTED SURFACES.</p>
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MARK	SELECTION BASED ON		SIZE	PIPE CONNECTION	TOP MATERIAL	ACCESSORIES	REMARKS
	MAKE	MODEL					
FD1	WATTS	FD-100	6"	3"	NICKLE BRONZE	PRIMER TAP	SQUARE TOP
FD2	WATTS	FD-340-Y	12"	3"	CAST IRON	PRIMER TAP	
FFD	WATTS	FD-100-EF	6"	3"	NICKLE BRONZE	ZN328-4 FUNNEL	
FS	WATTS	49320A	12"	4"	SS	DOME STRAINER	FLOOR SINK

[illegible]

NOTES:

1. P & T SETTINGS ARE, TEMPERATURE LIMIT AT 200° AND PRESSURE LIMIT AT 100 PSI	3. EXPANSION TANK PRESSURE SETTING TO EQUAL SYSTEM PRESSURE
2. WATER HEATER TO HAVE 5 YEAR WARRANTY	4. WATER HEART TO HAVE CONDENSATE NEUTRALIZATION KIT

[illegible]

1. PROVIDE UNION, CHECK VALVE AND BALL VALVE ON DISCHARGE 2. PUMP SHALL BE SUPPORTED INDEPENDENTLY OF PIPING

RWL	RAIN WATER LEADER	FS	FLOOR SINK		COLD WATER (CW)
BP	BOOSTER PUMP	RD	ROOF DRAIN		HOT WATER (HW)
CO	CLEANOUT	ORD	OVERFLOW ROOF DRAIN		HOT WATER RECIRCULATED (HWR)
VTR	VENT THRU ROOF	HD	OPEN HUB DRAIN 1" ABOVE FLOOR		SOIL OR WASTE (AFF)
WC	WATER CLOSET	FFD	FUNNEL FLOOR DRAIN		SOIL OR WASTE (BURIED)
UR	URINAL	GT	GREASE TRAP		VENT LINE
L	LAVATORY	HB	HOSE BIBB		STORM SEWER (BURIED)
SS	SERVICE SINK	SP	SUMP PUMP		CONDENSATE LINE
EWC	ELECTRIC WATER COOLER	WHA	WATER HAMMER ARRESTER		GAS LINE
WH	WATER HEATER	TW	TEMPERED WATER SUPPLY		OVERFLOW ROOF DRAIN PIPING
MS	MOP SINK	AP	ACCESS PANEL		UNION JOINT
S	SINK	RP	RECIRCULATION PUMP		FLANGE JOINT
FD	FLOOR DRAIN	WFP	WATER FIXTURE UNITS		"Y" STRAINER
ECO	EXTERIOR CLEANOUT	 1 → FLOOR PLAN OR DETAIL # P-1.1 → SHEET #	 FD	TEE - UP, BRANCH OUT OF TOP	
	WATER HAMMER ARRESTOR (SIZE)			TEE - DOWN, BRANCH OUT OF BOTTOM	
	GAS WATER HEATER (GWH) ELECTRIC WATER HEATER (EWH) SUMP PUMP (SP) RECIRC PUMP (RP) UNIT #	 1S → RISER DIAGRAM # S = SANITARY / STORM W = WATER P-1.1 → SHEET #		GATE VALVE	
				BALL VALVE	
				CHECK VALVE	

P 1	GENERAL NOTES AND SCHEDULES	P 8	KITCHEN DOMESTIC WASTE AND VENT RISER DIAGRAM
P 2	PLUMBING SCHEDULES	P 9	KITCHEN DOMESTIC WATER RISER DIAGRAM
P 3	PLUMBING FLOOR PLAN WASTE – NEW WORK	P 10	KITCHEN GAS AND COMPRESSED RISER DIAGRAM
P 4	PLUMBING FLOOR PLAN WATER – NEW WORK	P 11	NATURAL GAS RISER DIAGRAM
P 5	ENLARGED KITCHEN WASTE PLAN	P 12	PLUMBING DETAILS
P 6	ENLARGED KITCHEN WATER PLAN		
P 7	PARTIAL KITCHEN EQUIPMENT SCHEDULE		

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