

DIVISION 22 - PLUMBING SPECIFICATIONS

20500 GENERAL PROVISIONS

- A. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL A PLUMBING SYSTEM... B. WITHOUT RESTRICTING THE GENERALITY OF THE FIRST STATEMENT... C. THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED... D. ALL FINISH PAINTING IS TO BE PERFORMED BY THE GENERAL CONTRACTOR... E. ALL WORK SHALL CONFORM TO CODES, RULES, AND REGULATIONS...

220502 FIRESTOPPING

- A. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING AROUND ALL OPENINGS FOR PIPES, DUCTS, CONDUITS ETC... B. FIRESTOPPING SHALL MEET THE REQUIREMENTS OF ASTM E-814 OR UL 1479 FIRE TESTS... C. PENETRATION 1. CLEAN PENETRATION HOLES OF DIRT, LOOSE MATERIALS AND FOREIGN MATTER WHICH MAY AFFECT BOND OR INSTALLATION...

220529 PIPE ANCHORS, HANGERS AND SUPPORTS

- A. ALL PIPING SHALL BE SEPARATELY HUNG AND SUPPORTED FROM APPROVED STRUCTURAL MEMBERS OR CONCRETE OVERHEAD STRUCTURE ONLY... B. PROVIDE LISTED/APPROVED ADJUSTABLE HANGERS, INSERTS, BRACKETS, CLAMPS... C. HANGERS SHALL BE DESIGNED TO ALLOW FOR EXPANSION AND CONTRACTION... D. WIRE OR STRAP HANGERS ARE NOT PERMITTED... 220548 PLUMBING SYSTEM TESTING A. SYSTEM TESTING SHALL PROVIDE FOR THE FOLLOWING: 1. TEST NEW INTERIOR DOMESTIC WATER SYSTEM...

220550 STERILIZATION

- A. STERILIZE NEW DOMESTIC WATER LINES AFTER INSTALLATION. B. FURNISH A CERTIFICATE OF STERILIZATION AND APPROVAL FOR HUMAN CONSUMPTION TO BE SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THIS STATE... C. STERILIZATION SHALL BE BY MEANS OF CHLORINE INJECTED INTO THE WATER SYSTEM NEAR THE SOURCE AND OUTLETS THROUGHOUT THE SYSTEM... D. STERILIZATION SHALL BE PERFORMED UNDER THE IMMEDIATE SUPERVISION OF A WATER TESTING LABORATORY REGULARLY ENGAGED IN THE SERVICE...

220553 EQUIPMENT IDENTIFICATION

- A. STENCILS, LABELS, TAGS, AND COLOR CODES SHALL CONFORM TO ANSI A13. B. PRODUCTS SHALL BE SETON. EQUAL PRODUCTS BY BRADY MAY BE FURNISHED AT CONTRACTOR'S OPTION. C. STENCILS SHALL BE REUSABLE AND HAVE 1" HIGH CHARACTERS... D. PREPRINTED FLEXIBLE VINYL LABEL WITH PERMANENT PRESSURE SENSITIVE ADHESIVE BACK MAY BE USED ON PIPE... E. PIPING, VALVES, DRAINS, CONTROL PANELS AND SIMILAR EQUIPMENT SHALL BE IDENTIFIED AS TO FUNCTION AND SYSTEM NUMBER... F. IDENTIFY PIPE LINES WITH STENCIL OR PIPE LABEL WITH COLOR CODED BANDS AT THE FOLLOWING LOCATIONS: 1. AT EQUIPMENT CONNECTION AT EACH VALVE...

220700 INSULATION

- A. PIPE INSULATION AND APPURTENANCES AND COVERINGS ON PIPES USED IN CHASES, SHAFTS OR OTHER CONCEALED SPACES IN TYPES 1 AND 2 CONSTRUCTION SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING TWENTY-FIVE (25) AND IN TYPE 3 AND 4 CONSTRUCTION NOT EXCEEDING SEVENTY-FIVE (75) AND A SMOKE DEVELOPED RATING NOT EXCEEDING FIFTY (50). B. INSULATION SHALL BE RIDGE ONE-PIECE FIBERGLASS PIPE INSULATION WITH REQUIREMENTS COMPLYING WITH ASTM C 647... C. GLUE IN PLACE WITH SCHULLER U-GLUE. D. THE FITTINGS SHALL BE INSULATED WITH SCHULLER ZESTON INSULATION AND HAVE FACTORY PREMOLDED PVC COVERS... E. INSULATION SHALL NOT BE APPLIED UNTIL THE GENERAL CONSTRUCTION HAS PROGRESSED SUFFICIENTLY TO INSURE AGAINST PHYSICAL OR MOISTURE DAMAGE... F. INSTALL ALL INSULATION ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. G. INSULATION SHALL NOT BE APPLIED OVER FLANGES, JOINTS AND SEAMS IN PIPING. H. INSULATION SHALL BE SCHULLER. EQUAL PRODUCT BY ARMSTRONG, CERTAINTeed, OWENS-CORNING OR KNAUF MAY BE FURNISHED AT THE CONTRACTOR'S OPTION.

221113 PLUMBING BASIC MATERIALS AND METHODS

- A. PROVIDE AND ERECT THE FOLLOWING PIPING AS SHOWN ON THE DRAWINGS AND/OR AS REQUIRED. 1. SANITARY BUILDING DRAIN AND VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON SOIL PIPE. 2. SCHEDULE 40 PVC PIPING MAY BE USED FOR SANITARY WASTE AND VENT PIPING AT THE CONTRACTOR'S OPTION... B. THIS CONTRACTOR IS TO BECOME INFORMED OF THE EXACT DIMENSIONS OF FINISHED WORK WHERE PIPES ARE TO BE PLACED AND WILL ARRANGE THE WORK ACCORDINGLY... C. ALL PIPE LINES MUST BE PROVIDED WITH A SUFFICIENT NUMBER OF FITTINGS OR UNIONS TO MAKE POSSIBLE DISASSEMBLY WITHOUT BREAKAGE OF FITTINGS. D. ALL EXPOSED PIPING SHALL BE NEAT AND CAREFULLY ALIGNED WITH THE STRUCTURAL ELEMENTS OF THE BUILDING... E. ALL LOW POINTS IN WATER PIPING TO HAVE DRAIN VALVES WITH STANDARD HOSE ATTACHMENTS... F. ALL PIPES TO BE INSTALLED SHALL BE LOCATED AT SUFFICIENT DISTANCE FROM WALLS... G. MECHANICAL JOINT TYPE THICKNESS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS... 221116 PLUMBING SYSTEMS A. SANITARY BUILDING DRAIN, SOIL, WASTE AND VENT LINES SHALL BE SERVICE WEIGHT CAST IRON HUBLESS PIPE WITH STAINLESS STEEL AT COUPLINGS... B. VENT STACKS SHALL EXTEND THROUGH THE BUILDING, TERMINATING 12" ABOVE THE ROOF... C. HORIZONTAL RUNS SHALL BE GIVEN A PITCH TOWARD THE OUTLET AS CONDITIONS WILL PERMIT BUT NOT LESS THAN 1/8" PER FOOT. D. FULL "Y" BRANCH FITTINGS AND EXTENSION WITH BRASS NIPPLES AND FINISHED SCREW PLUGS FOR CLEANOUTS SHALL BE PLACED IN ACCESSIBLE POSITIONS... E. WHERE CLEANOUTS OCCUR IN FINISHED AREAS, THEY SHALL BE RECESSED AND COVERS TO BE FLUSH WITH THE FLOOR OR WALL. F. HOT AND COLD WATER PIPING, ABOVE GROUND, SHALL BE TYPE "L" HARD COPPER TUBE WITH SOLDER FITTINGS... G. ALL COPPER TUBING SHALL HAVE SWEAT FITTINGS AND BE CLEAN OF SCALE AND FOREIGN MATTER BEFORE INSTALLATION... H. EACH HOT AND COLD WATER BRANCH SHALL BE PROVIDED WITH A GATE VALVE SHUT-OFF. I. GREASE INTERCEPTOR - SHALL BE AS SPECIFIED ON DRAWINGS. 221120 DRAIN PIPING A. FURNISH AND INSTALL A GRAVITY DRAIN PIPING SYSTEM FROM WATER HEATER... B. PIPING IS TO BE SCHEDULE 40 PVC WITH DRAINAGE PATTERN FITTINGS... C. PIPING IS TO BE SECURED TO PIPE HANGERS, USING PROPER SPACING AND THE APPROPRIATE HEIGHT TO ALLOW THE PIPE TO PITCH PROPERLY. 224000 PLUMBING FIXTURES AND EQUIPMENT A. WATER CLOSETS AND LAVATORIES SHALL BE VITREOUS CHINA AND SHALL ALL BE BY THE SAM MANUFACTURER. B. ALL WALL HUNG LAVATORIES, FLUSH VALVES, ETC., SHALL BE PER DRAWINGS AND MOUNTED AT THE MANUFACTURER'S RECOMMENDED ROUGHING IN MEASUREMENTS... C. VALVES TO BE AS FOLLOWS: 125 LB. S.W.P. GATE, GLOBE AND CHECK VALVES: 1. GATE (2-1/2" AND SMALLER) - ALL BRONZE, SCREWED, TAPERED, SOLID WEDGE DISC, SCREWED BONNET, RISING STEM. 2. BALL (2-1/2" AND SMALLER) - ALL BRONZE, TEFLON STEM SEALS AND SEAT, 1/4 TURN SHUT-OFF, VINYL COVERED HANDLES. 3. GLOBE (2-1/2" AND SMALLER) - ALL BRONZE, SCREWED, TAPERED, SOLID WEDGE DISC, SCREWED BONNET, RISING STEM. 4. CHECK (2-1/2" AND SMALLER) - ALL BRONZE, SCREWED, HORIZONTAL SWING CHECK WITH BRONZE DISC. C. VALVES SHALL BE MILWAUKEE. EQUAL PRODUCTS BY CRANE, HAMMOND, POWELL, WALWORTH, NORTHERN INDIANA BRASS COMPANY OR STOCKHAM MAY BE FURNISHED AT THE CONTRACTOR'S OPTION. D. UNIONS TO BE AS FOLLOWS: 1. UNIONS FOR COPPER PIPE TO BE 150LB. ALL BRONZE, SOLDER END TYPE BY CHASE. EQUAL PRODUCTS BY CRANE, MUELLER OR NORTHERN INDIANA BRASS COMPANY MAY BE FURNISHED AT THE CONTRACTOR'S OPTION. 2. DIELECTRIC UNIONS BETWEEN FERROUS AND COPPER SHALL BE INSULATED TO PREVENT METAL-TO-METAL CONTACT AND SHALL BE MANUFACTURED BY CAPITAL MANUFACTURING COMPANY OF COLUMBUS, OHIO... E. CLEANOUTS TO BE AS FOLLOWS: 1. FLOOR TYPE TO BE ADJUSTABLE CAST IRON WITH NICKEL BRONZE TOP... 2. WALL TYPE TO BE CAST IRON TEE WITH ROUND POLISHED STAINLESS STEEL ACCESS COVER AND THREADED PLUG... F. FLOOR DRAINS TO BE AS FOLLOWS: 1. CAST IRON BODY SHALLOW SUMP DRAIN WITH DOUBLE DRAINAGE FLANGE AND WEEPHOLES...

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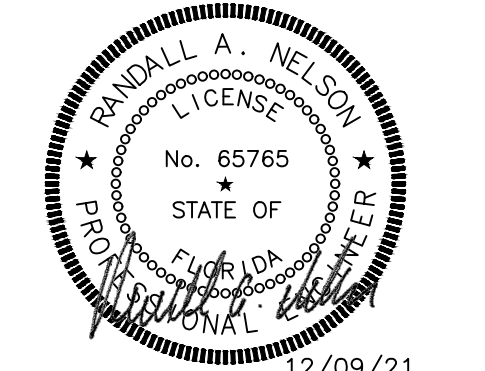
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SHEET NAME PLUMBING SPECIFICATIONS

SHEET NUMBER

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