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SECTION 220500 - BASIC MECHANICAL REQUIREMENTS

A. GENERAL

1. ALL WORK SHALL COMPLY WITH ALL BUILDING AND PLUMBING CODES OF NEW YORK STATE, LIFE SAFETY CODE (LSC) - NFPA 101, NEW YORK STATE HEALTH CODE, CITY OF BUFFALO PLUMBING CODES AND ALL OTHER APPLICABLE CODES, STANDARDS AND RECOMMENDED PRACTICES. ALL EQUIPMENT AND PLUMBING FIXTURES SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.

2. GENERAL:

a. COORDINATE PLUMBING WORK WITH OTHER TRADES TO AVOID ANY INTERFERENCES IN THE FIELD. ADJUST LOCATIONS OF WORK AS REQUIRED.

b. CONTRACTOR SHALL EXAMINE THE FIELD CONDITIONS AS WELL AS THE DRAWINGS AND SHALL MAKE HIS OWN DETERMINATION AS TO THE EXTENT OF THE WORK.

c. SUBMIT SIX (6) COPIES OF SHOP DRAWINGS COVERING ALL MATERIALS AND EQUIPMENT TO BE FURNISHED. SUBMIT TO ENGINEER FOR APPROVAL PRIOR TO START OF WORK.

d. THE CONTRACTOR SHALL OBTAIN ALL PERMITS, LICENSES AND INSPECTIONS AND SHALL PAY ALL LEGAL AND PROPER FEES AND CHARGES IN CONNECTION WITH THIS WORK.

e. ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE.

f. PROVIDE FOUR (4) SETS OF OPERATING AND MAINTENANCE MANUALS AND INSTRUCT OWNER'S PERSONNEL IN OPERATION OF EQUIPMENT AND SYSTEMS.

g. THE CONTRACTOR SHALL OBTAIN AT HIS EXPENSE, FOR A COST OF $50.00 PER DRAWING FILE, CONTRACT DRAWINGS FROM THE ENGINEER IN THE FORM OF ELECTRONIC FILES, FOR THE PURPOSE OF RECORDING AS-BUILT CONDITIONS. COMPLETE ELECTRONIC FILES SHALL BE CERTIFIED AS REFLECTING AS-BUILT CONDITIONS AND SUBMITTED TO THE ENGINEER FOR APPROVAL. PROVIDE THE OWNER WITH TWO (2) SETS OF PLOTS, ONE (1) SET OF REPRODUCIBLE DRAWINGS AND ONE (1) ELECTRONIC FILE ON CD.

3. CUTTING AND REFINISHING:

a. ALL CUTTING, FITTING, REPAIRING, PAINTING AND FINISHING OF MASONRY, CONCRETE WALLS AND FLOORS, METAL AND CARPENTRY WORK, ETC., THAT MAY BE NECESSARY FOR THE OPERATIONS REQUIRED BY THIS CONTRACTOR SHALL BE DONE BY CRAFTSMEN SKILLED IN THEIR RESPECTIVE TRADES AND AT THE EXPENSE OF THIS CONTRACTOR UNLESS OTHERWISE INDICATED, IN A MANNER APPROVED BY THE ARCHITECT.

b. THIS CONTRACTOR SHALL COORDINATE ALL NEW PLUMBING LOCATIONS WITH EXISTING STRUCTURE, DUCTWORK, PIPING, ETC.

c. CUT EXISTING WALLS AND FLOORS AS REQUIRED FOR NEW WORK UNLESS OTHERWISE NOTED. PATCH TO MATCH ADJACENT SURFACES.

4. FIRESTOPPING:

a. PROVIDE FIRESTOP SYSTEM SEALS AT ALL LOCATIONS WHERE PIPING OR TUBING PASS THROUGH OR PENETRATE FIRE-RATED WALLS OR BLOCK WALLS. PROVIDE FIRESTOP SEAL BETWEEN SLEEVE AND WALL FOR DRYWALL CONSTRUCTION. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH LIFE SAFETY CODE (LSC, NFPA 101) AND INDUSTRY STANDARDS. FIRESTOP SYSTEM SHALL BE 3-M FIRE PRODUCTS OR HILTI FIRE PRODUCTS. ALL TRADES SHALL USE PRODUCTS OF THE SAME MANUFACTURER. COORDINATE WITH OTHER TRADES.

SECTION 220523 - VALVES:

A. REQUIRED FOR ALL BRANCH MAINS AND AT EQUIPMENT.

B. MANUFACTURER:

1. BALL VALVES: LEAD-FREE WATTS FULL PORT LF-FBV-3C SERIES (THREADED ENDS) OR WATTS LF-FBVS-3C SERIES (SWEAT ENDS).

2. CHECK VALVE, 2 IN. AND SMALLER: LEAD-FREE BRONZE, SWING CHECK, 200 SWP; NIBCO T-413-Y-LF (THREADED ENDS) OR NIBCO S-413-Y-LF (SWEAT ENDS).

3. BALANCE VALVES, 2 IN. AND SMALLER: LEAD-FREE BRASS BODY, BRASS PLUG AND STEM, TEFLON SEAT RINGS, THREADED ENDS, DIFFERENTIAL READOUT PORTS, CALIBRATED NAMEPLATE, MEMORY STOP INDICATOR AND PRE-FORMED INSULATION TO PERMIT ACCESS FOR BALANCING AND READOUT; WATTS SERIES LFCSM-61-S.

SECTION 220553 - PLUMBING IDENTIFICATION

A. QUALIFICATIONS:

1. ALL IDENTIFICATION DEVICES SHALL COMPLY WITH ANSI A13.1 FOR LETTERING SIZE, LENGTH OF COLOR FIELD, COLORS, AND VIEWING ANGLES.

B. MAKES:

1. ALLEN SYSTEMS, INC., BRADY (W.H.) CO., SIGNMARK DIV., INDUSTRIAL SAFETY SUPPLY CO., INC., SETON NAME PLATE CORP.

C. PIPING IDENTIFICATION:

1. IDENTIFICATION TYPES:

a. PRESSURE SENSITIVE TYPE: PROVIDE MANUFACTURER'S STANDARD PRE-PRINTED, PERMANENT ADHESIVE, COLOR CODED, PRESSURE SENSITIVE VINYL PIPE MARKERS COMPLYING WITH ANSI A13.1. PROVIDE A 360 DEGREE WRAP OF FLOW ARROW TAPE AT EACH END OF PIPE LABEL.

2. LETTERING:

a. PIPING LABELING SHALL CONFORM TO THE FOLLOWING LIST:

PIPE FUNCTION	IDENTIFICATION
COLD WATER	DOMESTIC COLD WATER
HOT WATER	DOMESTIC HOT WATER
HOT WATER RECIRCULATING	HOTWATER RECIRC.
VENT	VENT
SANITARY WASTE	SANITARY WASTE

3. GENERAL:

a. PROVIDE PIPING IDENTIFICATION WITH DIRECTIONAL FLOW ARROWS FOR ALL PIPING ON PROJECT, MAXIMUM EVERY 15 FT-0 IN. FOR PIPING INSTALLED THROUGH ROOMS, PROVIDE AT LEAST ONE PIPE LABEL IN EACH ROOM, FOR EACH PIPE FUNCTION.

b. PROVIDE HOT WATER TEMPERATURE LABELING AS REQUIRED.

SECTION 220700 - INSUATION

A. ALL WATER PIPING: GLASS FIBER - COLD - 1-1/4 IN. AND SMALLER PIPING: 1/2 IN. THICK WITH VAPOR BARRIER, 1-1/2 IN. AND LARGER PIPING; 1 IN. THICK WITH VAPOR BARRIER; HOT - 1-1/4 IN. AND SMALLER PIPING: 1 IN. THICK, 1-1/2 IN. AND LARGER PIPING: 1-1/2 IN. THICK.

B. INSULATION SHALL HAVE WHITE ALL SERVICE JACKETS.

C. INSULATION FITTINGS, VALVES, ETC., WITH INSULATING CEMENT THE SAME THICKNESS AS PIPE INSULATION OR WITH "ZESTON" TYPE SYSTEM AS APPROVED.

SECTION 221010 - PIPE AND PIPE FITTINGS

A. COPPER PIPE AND FITTINGS:

1. HARD TEMPER, ASTM B88, TYPE L OR DWV, AS CALLED FOR. TYPE L

2. SOLDER, WATER AND SANITARY PIPING: NO-LEAD SOLDER.

B. PEX PIPING:

1. PIPE: CROSS-LINKED, HIGH DENSITY, POLYETHYLENE TUBING FOR POTABLE WATER. ASTM F-876/F-877; ANSI/NSF 61. PLANS SHOW NOMINAL TUBE SIZES.

2. MANIFOLDS: COPPER MANIFOLD WITH SWEAT ENDS AND 1/2 IN. OUTLETS ON 3 IN. CENTERS. PROVIDE REDUCING COUPLINGS AS REQUIRED FOR INDIVIDUAL OUTLETS.

3. VALVES, BRASS BODY BALL VALVES WITH SWEAT X PEX COMPRESSION ENDS RATED FOR 250 PSI AND 250°F. PROVIDE CRIMP RING FOR PEX COMPRESSION CONNECTIONS.

4. ACCEPTABLE MANUFACTURERS: WIRSBO, VIEGA, ZURN OR APPROVED EQUAL.

C. CORRUGATED STAINLESS STEEL TUBING

1. CORRUGATED STAINLESS STEEL TUBING (CSST) COMPLYING WITH ANSI LC 1B "FUEL GAS PIPING SYSTEMS USING CORRUGATED STAINLESS STEEL TUBING."

2. PIPE: ASTM A240 TYPE 300 CORRUGATED STAINLESS STEEL TUBING WITH A MINIMUM WALL THICKNESS OF 0.008 IN., JACKETING OF UV RESISTANT POLYETHYLENE MEETING THE REQUIREMENTS OF ASTM E84 FOR FLAME SPREAD AND SMOKE DENSITY.

3. FITTINGS: ALL MECHANICAL TUBING FITTINGS SHALL BE SAE CA360 BRASS WITH DOUBLE WALL FLARE SEALS AND SHALL BE BY THE SAME MANUFACTURER AS THE TUBING.

4. BONDING: PROVIDE PERMANENT DIRECT BONDING OF CORRUGATED STAINLESS STEEL GAS PIPING TO THE ELECTRICAL SERVICE PER MANUFACTURER'S RECOMMENDATIONS AND NEC 2005, ARTICLE 250.70 ON BONDING JUMPERS. BONDING ATTACHMENT TO THE PIPING SHALL BE MADE USING A BONDING/GROUNDING CLAMP LISTED TO UL 467.

5. EACH CSST INSTALLER SHALL BE TRAINED AND CERTIFIED BY THE MANUFACTURER OF THE CSST PIPING BEING INSTALLED.

6. PIPING SIZES SHOWN ON THE PLANS, UNLESS OTHERWISE NOTED, ARE BASED ON IRON PIPE SIZES. WHEN PROVIDING CSST, THE CONTRACTOR SHALL SUBMIT CALCULATIONS CONFIRMING THE FLOW AND PRESSURE DELIVERED TO THE EQUIPMENT WILL BE ADEQUATE. CSST PIPE SIZES SHALL BE INCREASED WHEN FLOW AND PRESSURE IS NOT SUITABLE FOR THE OPERATION OF THE SPECIFIED EQUIPMENT.

7. ACCEPTABLE MANUFACTURERS: GASTITE, OMEGAFLEX, WARDFLEX OR APPROVED EQUAL.

D. STEEL PIPING AND FITTINGS

1. PIPE: ASTM A53, OR ASTM A106 SEAMLESS, SCHEDULE 40 OR SCHEDULE 80 WEIGHT; BLACK OR GALVANIZED FINISH AS CALLED FOR; ENDS CHAMFERED FOR WELDING OR GROOVED FOR GROOVED MECHANICAL CONNECTIONS.

2. FITTINGS: SAME MATERIAL AND PRESSURE CLASS AS ADJOINING PIPE.

A. WELDED FITTINGS: FACTORY FORGED, SEAMLESS CONSTRUCTION, BUTT WELD TYPE CHAMFERED ENDS. WHERE BRANCH CONNECTIONS ARE TWO OR MORE SIZES SMALLER THAN MAIN SIZE, USE OF "WELDOLETS", "THREDOLETS" OR "SOCKOLETS" ACCEPTABLE. MITERED ELBOWS, "SHAPED" NIPPLES, AND JOB FABRICATED REDUCTIONS NOT ACCEPTABLE UNLESS SPECIFICALLY CALLED FOR. SOCKET WELD TYPE, 2000 PSI WP, WHERE CALLED FOR.

B. THREADED FITTINGS: CAST OR MALLEABLE IRON, BLACK OR GALVANIZED, AS CALLED FOR; DRAINAGE TYPE WHERE CALLED FOR; UL LISTED AND FM APPROVED FOR FIRE PROTECTION SYSTEMS. STREET TYPE 45° AND 90° ELBOWS ARE NOT ACCEPTABLE.

3. FLANGES, UNIONS, AND COUPLINGS:

A. THREADED CONNECTIONS:

1) FLANGES: CAST IRON COMPANION TYPE; FOR SIZES 2-1/2 IN. AND LARGER.

2) UNIONS: MALLEABLE IRON, BRONZE TO IRON SEAT, 300 LB. WWP; FOR SIZES 2 IN. AND SMALLER.

3) COUPLINGS: MALLEABLE IRON. STEEL THREAD PROTECTORS ARE NOT ACCEPTABLE AS COUPLINGS.

B. WELDED CONNECTIONS:

1) FLANGES; WELDING NECK TYPE. SLIP-ON TYPE NOT ALLOWED UNLESS NOTED AND SHALL NOT BE INSTALLED IN CONJUNCTION WITH BUTTERFLY VALVES.

E. SOIL PIPE AND FITTINGS:

1. PIPE: ASTM 74 SERVICE WEIGHT CAST IRON, COATED.

a. FITTINGS: SWCI WITH NEOPRENE GASKET TYPE OR NO-HUB TYPE JOINTS (NO-HUB TYPE JOINTS ABOVE GROUND ONLY).

2. PIPE: ASTM B306, TYPE DWV, HARD TEMPER.

1) FITTINGS: WROUGHT COPPER, ANSI B16.29 OR CAST BRONZE, ANSI B16.23; SOLDER END CONNECTIONS.

2) FLUX MATERIALS: FLUX SHALL COMPLY WITH ASTM B813 AND THE PROVISIONS OF THE NEW YORK STATE PLUMBING CODE.

3) SOLDER MATERIALS: NO LEAD SOLDER, USING ALLOYS MADE FROM TIN, COPPER, SILVER AND NICKEL.

4) ACCEPTABLE MANUFACTURERS: HARRIS, INC., "STAY-SAFE 50" AND "BRIGHT", ENGELHARD "SILVABRIGHT 100", CANFIELD "WATERSAFE", OR APPROVED EQUAL.

F. PVC SOLID CORE PIPE AND FITTINGS - WATER HEATER INTAKE AND EXHAUST:

1. PVC SCHEDULE 40 SOLID WALL PIPE, IRON PIPE SIZE CONFORMING TO ASTM D1785 AND ASTM D2665. PIPE SHALL BE MANUFACTURED FROM PVC COMPOUNDS AS IDENTIFIED IN ASTM D1784. BOTH PIPE AND FITTINGS SHALL CONFORM TO NATIONAL SANITATION FOUNDATION STANDARD 14.

2. FITTINGS: TYPE DWV, SOCKET TYPE CONFORMING TO ASTM D2665. FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUNDS AS IDENTIFIED IN ASTM D1784. SOLVENT CEMENT JOINTS SHALL BE MADE UTILIZING A TWO-STEP PROCESS WITH PRIMER MANUFACTURED FOR THERMOPLASTIC PIPING AND SOLVENT CEMENT CONFORMING TO ASTM D2564.

A. PROVIDE MANUFACTURES CONCENTRIC VENT KIT.

G. HANGERS, INSERTS AND SUPPORTS:

1. HANGERS: ADJUSTABLE WROUGHT RING TYPE FOR SMALLER SIZES AND ADJUSTABLE STEEL CLEVIS TYPE FOR LARGER SIZES. DO NOT USE "C" CLAMPS ON JOISTS, USE CONCENTRIC TYPE CLAMPS ON TOP OR BOTTOM CHORD PANEL POINTS ONLY.

2. NO-HUB PIPE, ETC.: PROVIDE ADDITIONAL SUPPORTS AS RECOMMENDED BY PIPE MANUFACTURER.

3. SLEEVES: REQUIRED FOR ALL PIPING PASSING THROUGH FLOORS OR WALLS.

SECTION 221100 - WATER SUPPLY

A. INTERIOR PIPING: ALL BRANCH MAIN PIPING SHALL BE TYPE L COPPER, NO-LEAD SOLDER FITTINGS. PEX PIPING FROM MANIFOLDS TO PLUMBING FIXTURES.

B. SUPPLY PIPING TO ALL FIXTURES ANCHOR TO PREVENT MOVEMENT.

C. RUNPIPING SLIGHTLY OFF LEVEL TO LOW POINTS, PROVIDE DRAIN VALVES.

D. SYSTEMS SHALL BE STERILIZED AS REQUIRED BY BUILDING CODES AND NEW YORK STATE HEALTH DEPARTMENT. SUBMIT TEST REPORTS.

E. TESTING: PROVIDE ALL NECESSARY ITEMS TO COMPLETE PROPER TESTING OF ALL WATER PIPING. TEST AT 150% OF WORKING PRESSURE FOR TWO HOURS. SUBMIT TEST REPORTS.

F. LEAKS, DAMAGE OR DEFECTS DISCOVERED RESULTING FROM TESTS SHALL BE REPAIRED OR REPLACED TO A LIKE NEW CONDITION. LEAKY PIPE JOINTS, ETC. SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIALS AND WORKMANSHIP.

SECTION 221300 - WASTE WATER SYSTEM

A. PLUMBING WASTE DRAINAGE SYSTEM:

1. INTERIOR:

a. SERVICE WEIGHT CAST IRON SOIL PIPE AND FITTINGS, CAST IRON NO-HUB OR TYPE DWV COPPER PIPE.

B. VENT PIPING:

1. TYPE DWV COPPER PIPE, OR CAST IRON, NO-HUB.

C. TESTING: PROVIDE ALL NECESSARY ITEMS TO COMPLETE PROPER TESTING OF WASTE WATER SYSTEMS. HYDROSTATIC TEST AT 10 FT. HEAD OF WATER ABOVE HIGHEST POINT OR SECTION BEING TESTED FOR SIX HOURS. SUBMIT TEST REPORTS.

D. LEAKS, DAMAGE OR DEFECTS DISCOVERED RESULTING FROM TESTS SHALL BE REPAIRED OR REPLACED TO A LIKE NEW CONDITION. LEAKY PIPE JOINTS, ETC. SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIALS AND WORKMANSHIP.

SECTION 223010 - EQUIPMENT

A. CLEANOUTS:

1. FLOORS: CAST IRON BODY, NICKEL BRONZE TOP WITH ADJUSTABLE FEATURE, BRONZE PLUG AND FLASHING CLAMP WHERE REQUIRED, CARPET MARKER AND TILE COVER WHERE APPLICABLE; JAY R. SMITH SERIES #4028.

B. FLOOR DRAINS (FD-A):

1. DRAIN DESCRIPTION: ALL FLOOR DRAINS TYPE A UNLESS OTHERWISE NOTED.

a. TYPE A: CAST IRON BODY, FLASHING COLLAR WITH WEEPHOLES, NICKEL BRONZE, 7 IN. DIAMETER ADJUSTABLE STRAINER; JAY R. SMITH FIGURE #2010-A.

2. MAKE: JOSAM, JAY R. SMITH, WADE, WATTS, MIFAB OR ZURN.

C. TRAP GUARDS

1. ELASTOMERIC, NORMALLY CLOSED SEAL TO PREVENT EVAPORATION OF P-TRAPS. INSERTS INTO THROAT OF FLOOR DRAIN. PROVIDE FOR EACH NEW FLOOR DRAIN.

2. MAKE: PROVENT SYSTEMS, INC. "PROSET TRAP GUARD".

D. ROOF DRAINS:

1. TYPE A: FEATURES AND OPTIONS: REMOVEABLE LOCKING TYPE DOME, DECK CLAMP, SUMP RECEIVER, CAST IRON BOLTED FLASHING CLAMP RING AND INTEGRAL V-NOTCHED GRAVEL STOP ON PRIMARY DRAIN, AND SOLID WEIRON SECONDARY DRAIN.

a. JAY R. SMITH FIGURE #2010-A

2. TYPE B: SAME AS TYPE A, WITH TWO (2) INCH SOLD WATER DAM.

a. JAY R. SMITH FIGURE #1310

E. DOWN SPOUT NOZZLE:

1. TYPE 304 STAINLESS STEEL WITH HINGED PERFORATED COVER.

a. JAY R. SMITH FIGURE #1310

SECTION 224000 - PLUMBING FIXTURES AND TRIM

A. WATERCLOSET:

A. WC-A:

1. AMERICAN STANDARD #2989.101, CONCEALED TRAP-WAY CADET, FLOW-WISE RIGHTHEIGHT, FLOOR MOUNTED, VITREOUS CHINA, PRESSURE ASSISTED, TANK TYPE, ELONGATED BOWL, CLOSE COUPLED, 16-1/2 IN. RIM HEIGHT, FULLY GLAZED 3 IN. BALL PASS TRAPWAY, 1.28 GPF FITTED WITH THE FOLLOWING:

A. CHURCH #383SS EXTRA HEAVY WEIGHT, WHITE ELONGATED SOLID PLASTIC, OPEN FRONT SEAT WITH COVER.

B. MCGUIRE #166 CHROME PLATED ANGLE SUPPLY WITH 3/8 IN. X 12 IN. FLEXIBLE RISER, WHEEL HANDLE STOP AND WALL ESCUTCHEON WITH SET SCREW.

C. CAST IRON CLOSET FLANGE WITH STAINLESS STEEL BOLTS AND WAX SETTING RING.

D. COLOR MATCHING BOLT CAPS.

B. LAVATORIES

1. LAV-A:

A. KOHLER 'CAXTON' K-20000, RECTANGULAR SHAPE, VITREOUS CHINA UNDERCOUNTER MOUNTED LAVATORY WITH OVERFLOW AND FAUCET DRAIN, FITTED WITH THE FOLLOWING :

1) DELTA 'CASSIDY' 3595-MPU-LHP DECK MOUTNED 4 IN. FIXED CENTERS, LAMINAR FLOW CONTROL INSERT, WRIST CONTROL HANDLES.

2) MCGUIRE #155-WC OFFSET CHROME PLATED PO PLUG WITH OPENGRID STRAINER AND 1-1/4 IN., 17 GAUGE TAILPIECE.

3) MCGUIRE #167LK, 3/8 IN., CHROME PLATED WALL SUPPLIES WITHLOOSE KEY ANGLE STOPS, CAST BRASS SET SCREW ESCUTCHEONS AND 12 IN. LONG FLEXIBLE TUBE RISERS.

4) MCGUIRE #8902, 1-1/4 IN. X 1-1/2 IN., 17 GAUGE, CHROME PLATED BRASS "P" TRAP WITH CLEANOUT PLUG AND SET SCREW ESCUTCHEON.

5) PROVIDE TEMPERATURE/PRESSURE MIXING VALVE.

6) COVER WASTE, STOPS AND SUPPLY PIPING WITH ADA CONFORMING PIPE COVERS, TRUEBRO, INC. "LAV-GUARD".

2. LAV-B:

A. KOHLER 'CAXTON' K-20000, RECTANGULAR SHAPE, VITREOUS CHINA UNDERCOUNTER MOUNTED LAVATORY WITH OVERFLOW AND FAUCET DRAIN, FITTED WITH THE FOLLOWING :

1) DELTA 'TRINSIC' 559HA-DST DECK MOUNTED WITH SWIVEL SPOUT WITH 1.0 GPM LAMINAR FLOW CONTROL INSERT, WRIST CONTROL HANDLES.

2) MCGUIRE #155-WC OFFSET CHROME PLATED PO PLUG WITH OPEN GRID STRAINER AND 1-1/4 IN., 17 GAUGE TAILPIECE.

3) MCGUIRE #167LK, 3/8 IN., CHROME PLATED WALL SUPPLIES WITH LOOSE KEY ANGLE STOPS, CAST BRASS SET SCREW ESCUTCHEONS AND 12 IN. LONG FLEXIBLE TUBE RISERS.

4) MCGUIRE #8902, 1-1/4 IN. X 1-1/2 IN., 17 GAUGE, CHROME PLATED BRASS "P" TRAP WITH CLEANOUT PLUG AND SET SCREW ESCUTCHEON.

5) PROVIDE TEMPERATURE/PRESSURE MIXING VALVE.

6) COVER WASTE, STOPS AND SUPPLY PIPING WITH ADA CONFORMING PIPE COVERS, TRUEBRO, INC. "LAV-GUARD".

C. SINKS:

1. SK-A:

A. BLANCO 'PRECIS' SERIES 30" X 18" X 9-1/2" DEEP, 80% SOLID GRANTITE CONTRUCTION, SINGLE BOWL UNDERCOUNTER MOUNTED, BASIS OF DESIGN MODEL #442530 - COLOR BY ARCHITECT. THE SINK SHALL BE FITTED WITH THE FOLLOWING:

1) KOHLER #K-596, SINGLE LEVER WASHERLESS SINK FAUCET, 9 IN. CAST BRASS SWING SPOUT, TEMPERATURE LIMITER, DECK MOUNTED, 2.0 GPM, LEAD FREE, ADA COMPLIANT.

2) ELKAY #LKAD35 STRAINER WITH REMOVABLE CUP, LKADOS 1-1/2 IN. O.D. OFFSET TAILPIECE.

3) MCGUIRE #8912 SEMI-CAST BRASS ADJUSTABLE "P" TRAP, 1-1/2 IN. X 1-1/2 IN., WITH CLEANOUT PLUG AND CAST BRASS ESCUTCHEON WITH SET SCREW.

D. SHOWERS AND BATH TUBS

1. SH-A: SHOWER AREA WALLS AND FLOORS WILL BE CONSTRUCTED AND TILED BY OTHERS. BASE SHALL BE KOHLER 'BALLAST' K-1935, 48" X 36" ACRYLIC WITH RESIN CORE CONSTRUCTION. THE DIVISION 22 CONTRACTOR SHALL PROVIDE THE FOLLOWING TRIM FOR EACH SHOWER.

a. DELTA 'CASSIDY' SERIES MODEL T14297 SHOWER AND FAUCET TRIM. PACKAGE SHALL INCLUDE SHOWER HEAD, AND LEVER HANDLE CONTROLLED MIXING VALVE. FINISH/COLOR AS PER ARCHITECTS DIRECTION.

1) MIXING VALVE, PRESSURE BALANCED TYPE, ROUGH BRONZE, METAL LEVER AND ESCUTCHEON PLATE, LEVER ASSEMBLY WITHINTEGRAL CHECK STOPS.

2) SHOWER HEAD: 1.5 GPM FLOW CONTROL (BUILT-IN) STANDARDARM AND FLANGE.

2. BATHTUB BT-A:

A. KOHLER 'BELLWETHER' # K-838 5 FT. - 0 IN. LONG X 30 IN. WIDE X 14 IN. HIGH, WHITE ENAMELED CAST IRON, RECESSED BATHTUB WITH SLIP RESISTANT BOTTOM AND THE FOLLOWING TRIM.

1) CONCEALED POP-UP WASTE WITH OVERFLOW, LEVEL HANDLE, BRASS ELBOWS, TEE AND 1-1/2 IN., 17 GAUGE BRASS TUBING.

b. DELTA 'CASSIDY' SERIES MODEL T14497 SHOWER AND FAUCET TRIM. PACKAGE SHALL INCLUDE SHOWER HEAD, TUB SPOUT, AND LEVER HANDLE CONTROLLED MIXING VALVE. FINISH/COLOR AS PER ARCHITECTS DIRECTION. 1

1) MIXING VALVE, PRESSURE BALANCED TYPE, DIVERTER VALVE, ROUGH BRONZE, METAL LEVER AND ESCUTCHEON PLATE, LEVER ASSEMBLY WITH INTEGRAL CHECK STOPS.

2) SHOWER HEAD: 1.5 GPM FLOW CONTROL (BUILT-IN) STANDARD ARM AND FLANGE.

3) TUB SPOUT: SLIP-ON LIFT LATCH (DIVERTER) SPOUT.

4) CURTAIN AND ROD; 1 IN. DIAMETER STAINLESS STEEL CURTAIN ROD; WHITE 10 OZ. CURTAIN WITH HOOKS.

5) 2" WASTE PIPING AND TRAP

3. BATHTUB BT-B:

A. KOHLER 'BELLWETHER' # K-838 5 FT.- 0 IN. LONG X 30 IN. WIDE X 14 IN. HIGH, WHITE ENAMELED CAST IRON, BATHTUB WITH SLIP RESISTANT BOTTOM. PROVIDE TUB WALL SURROUND TRIM FOR FREE STANDING APPLICATION. TUB SHALL HAVE THE FOLLOWING TRIM.

1) CONCEALED POP-UP WASTE WITH OVERFLOW, LEVEL HANDLE, BRASS ELBOWS, TEE AND 1-1/2 IN., 17 GAUGE BRASS TUBING.

2) 2" WASTE PIPING AND TRAP

b. DELTA 'CASSIDY' SERIES MODEL T4797-FL-LHP FLOOR MOUNTED TUB FILLER ASSEMBLY. PACKAGE SHALL INCLUDE HAND HELD SHOWER HEAD, TUB SPOUT. FINISH/COLOR AS PER ARCHITECTS DIRECTION.

1) AUTO RESETING DIVERTER VALVE

E. WASHING MACHINE BOX

2. LUB: SIOUX CHIEF 696-2313WR.

F. REFRIGERATOR SUPPLY BOX

2. WVB: SIOUX CHIEF 696-1010MR.

G. WALL HYDRANT/HOSE BIBB

2. HB-A: EXPOSED TYPE HOSE CONNECTION, LEAD-FREE, SOLDER CONNECTION, NICKEL BRONZE FACE, QUARTER TURN VALVE, NONFREEZE TYPE, 3/4 IN. HOSE CONNECTION, SELF DRAINING, INTEGRAL VACUUM BREAKER WITH VANDAL RESISTANT CAP, LOOSE KEY CONTROL AND WALL CLAMP; JAY R. SMITH FIGURE #5609QT.

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PROFESSIONAL SEAL

REVISIONS:

No.	Description	Date
1	Addendum 1	02/08/19

PROJECT NAME:
New Construction:
The West End
240-260 Lakefront Blvd
Buffalo Ny, 14202

Issued for Permit: 01.23.2019
Drawn By: TAG
Checked By: RKS

DRAWING NAME:
Specifications - Plumbing

DRAWING NO.
P-600

Project No: 18.122