

WATER CLOSET

TRAP PRIMER

LAVATORY

SWITCH

WET VENT

CIRCULATOR PUMP

MIXING VALVE

UTILITY BOX

SINK

ELECTRIC WATER HEATER

WATER HAMMER ARRESTOR TYPE A

WATER HAMMER ARRESTOR TYPE B

WATER HAMMER ARRESTOR TYPE C

TEMPERATURE CONTROL VALVE

2" HUB DRAIN WITH FLEXIBLE

ELECTRIC WATER COOLER

TRAP SEAL BY MIFAB OR EQUAL

ABOVE CEILING UNLESS NOTED

2) PIPE SLEEVE PER SPECIFICATIONS

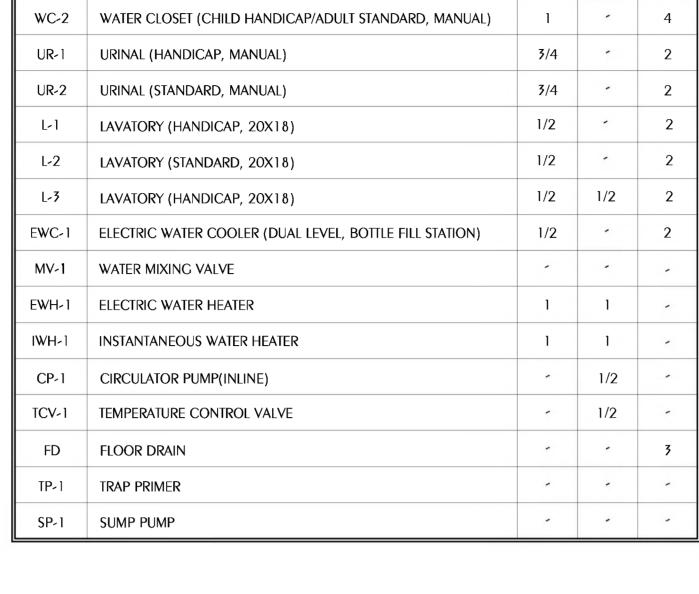
TYPICAL PIPE

SCALE: 1/8" = 1'-0"

PENETRATION OF WALL

(3) PIPING

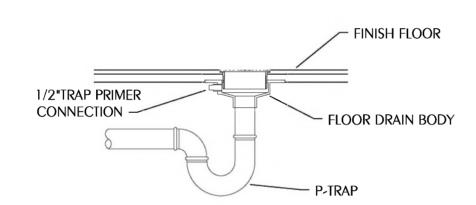
(4) INSULATION



FIXTURE CONNECTIONS MARK **FIXTURE** CW HW WC-1 WATER CLOSET (ADULT HANDICAP, MANUAL)

PLUMBING FIXTURE SCHEDULE

- 1. WATER SUPPLY TAPPING TO EACH PLUMBING FIXTURE SHALL BE FULL SIZE (MINIMUM).
- 2. SEE ELECTRICAL DWCS FOR FINAL POWER REQUIREMENTS.
- 3. PROVIDE WATER HAMMER ARRESTERS ON HOT & COLD WATER SUPPLY BRANCHES SERVING SINGULAR, MULTIPLE OR GROUPS OF PLUMBING FIXTURES. ADHERENCE TO THE PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I.-WH201 (PER SPECIFICATIONS) SHALL BE EMPLOYED IN DETERMINING PROPER SIZE, SELECTION, PLACEMENT, LOCATION AND INSTALLATION OF ARRESTERS.







WALL MOUNT -

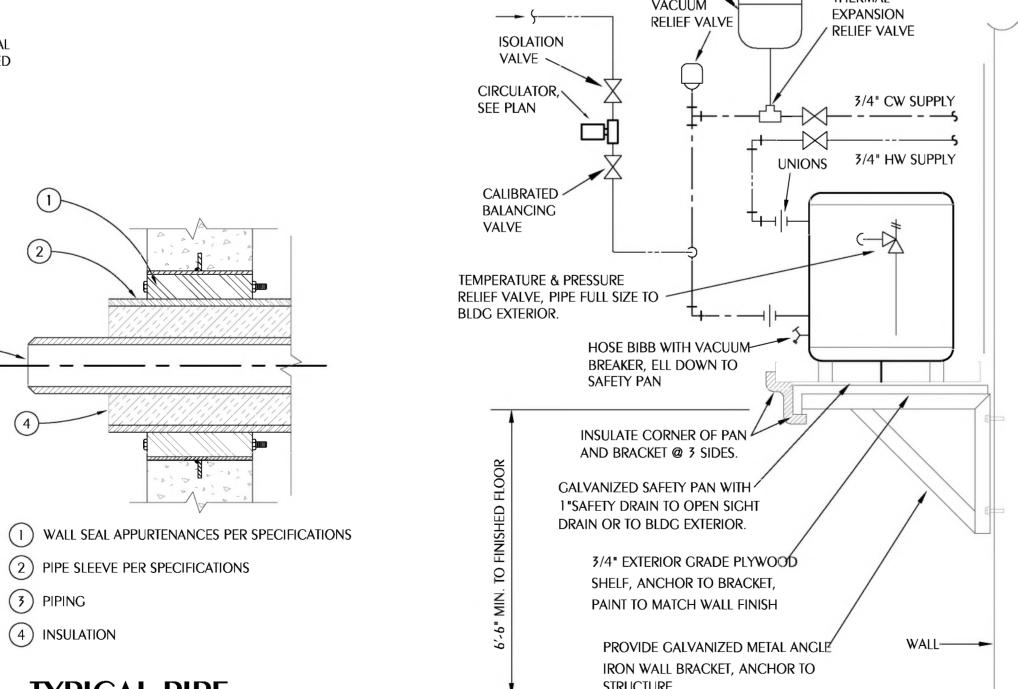
SIMILAR)

SINK OR LAVATORY

WATER SUPPLY

WITH ESCUTCHION

(CABINET MOUNT



EXPANSION TANK



GENERAL NOTES

- COORDINATE ALL PIPING WITH DUCTWORK SHOP DRAWINGS AND EXISTING CONDITIONS. ROUTE PIPING AS REQUIRED TO AVOID CONFLICTS.
- PRIOR TO START OF ANY WORK, COORDINATE SANITARY SEWER AND POTABLE WATER PIPING WITH CIVIL DRAWINGS.
- 3. FIELD VERIFY PIPE INVERTS PRIOR TO LAYING OUT SANITARY SEWER PIPING
- ALL PIPING PASSING THROUGH ANY WALL SHALL HAVE A SLEEVE PER SPECIFICATIONS.
- ALL PIPING PASSING THROUGH FIRE-RATED WALLS SHALL HAVE A FIRE-RATED SLEEVE PER SPECIFICATIONS. ALL PIPING PENETRATIONS THROUGH WALLS OR FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE WALLS OR FLOORS.
- ALL PIPING INDICATED IS ABOVE THE CEILING EXCEPT THE OBVIOUS SANITARY SOIL, WASTE, VENT AND POTABLE WATER PIPING BELOW FLOOR OR GRADE.
- SEE TOILET ROOM ELEVATIONS ON ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE MOUNTING HEIGHT.
- 8. COORDINATE EXACT LOCATION OF ALL EXTERIOR WALL HYDRANTS WITH ARCHITECTURAL DRAWINGS.
- UNDER SLAB SOIL, WASTE AND VENT PIPING PASSING TO UNDERSIDE OR THROUGH FOUNDATION FOOTING, WALL OR GRADE BEAM SHALL BE PROVIDED WITH A RELIEVING ARCH OR PIPE SLEEVE 2 (TWO) PIPE SIZES GREATER THAN PIPE SIZE INDICATED ON PLANS. COORDINATE FINAL PIPE ROUTING AND LAYOUT WITH STRUCTURAL DRAWINGS.
- 10. PRIOR TO SUBSTANTIAL COMPLETION OF NEW AND ALTERED WORK AREAS, CONTRACTOR SHALL HAVE SANITARY PLUMBING SYSTEM CLEARED OF DEBRIS OR ANY MATTER THAT WOULD INTERFERE OR PREVENT ADEQUATE CONVEYANCE OF MATERIALS FROM MOVING THROUGH AND TERMINATING INTO BUILDING OR PUBLIC DISPOSAL FACILITIES.
- 11. ALL (VTR'S) VENT THRU ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS.
- 12. ALL TRAP PRIMERS AND DOMESTIC WATER ISOLATION VALVES SHALL BE ACCESSIBLE. TRAP PRIMERS LOCATED IN THE VICINITY OF WATER CLOSETS SHALL BE ACTIVATED BY WATER CLOSET USAGE. ISOLATION VALVES SHALL BE OF THE QUARTER TURN
- 13. CONTRACTOR SHALL DEVELOP AND SUBMIT COORDINATION SHOP DRAWINGS WHICH IDENTIFY ROUTING OF PLUMBING PIPE AND LOCATION OF EQUIPMENT. SHOP DRAWINGS SHALL INDICATE COORDINATION WITH THE WORK OF OTHER TRADES.

WATER SUPPLY

A FOUNDATION MAY BE REQUIRED IN VERY POOR SOIL

TRENCH BOTTOM UP TO CRADE. BEDDING MATERIALS

LONGITUDINAL SUPPORT UNDER THE PIPE. IN DRY SOIL

CONDITIONS, CLASS II OR III MATERIAL SHALL BE HAND PLACED IN 4-6", LICHTLY COMPACTED UNIFORM AND

NOT FINER THAN THE FOUNDATION MATERIAL. IN WET

HAND PLACED IN 4-6", UNIFORM AND NOT FINER THAN

THE FOUNDATION MATERIAL. WHEN UTILIZING CLASS I

MATERIAL SHALL BE ADDED TO FILL ALL VOIDS CREATED

CONDITIONS, CLASS I, II OR III MATERIAL SHALL BE

MATERIAL, SUFFICIENT AMOUNTS OF CLASS II OR III

HAUNCHING MATERIAL SHALL BE HAND PLACED TO

THE SPRINGLINE OF THE PIPE. CLASS II OR III

MATERIAL SHALL BE CONSOLIDATED UNDER THE PIPE

AND HAND TAMPED TO PROVIDE ADEQUATE SIDE

(4) Initial Backfill Material Shall be class if or III. It

THE PIPE AND TAMPED BY A PORTABLE VIBRATOR. FINAL BACKFILL MATERIAL MAY BE MACHINE PLACED.

THE MATERIAL SHALL BE CLASS II OR III MATERIAL.

(5) FINAL BACKFILL UNDER ROADWAYS MAY REQUIRE

SPECIAL COMPACTION AND DENSITY TESTS. A

MINIMUM OF 30" OF COVER OVER THE TOP OF THE

ALL EMBEDMENT MATERIALS SHALL BE NO LESS THAN

95% OF MAXIMUM DENSITY. LABORATORY TESTING OF

THE SOIL WILL BE REQUIRED. THIS PROCEDURE SHALL

BE REQUIRED ON ALL INSTALLATIONS. ALL TRENCHING,

ACCORDANCE WITH 2020 FLORIDA BUILDING CODE

EXCAVATION, AND BACKFILLING SHALL BE IN

PIPE SHALL BE PROVIDED BEFORE THE TRENCH IS

CLASS IV MATERIAL MAY BE INSTALLED OUTSIDE OF

SHALL BE PLACED WITHIN 24-30" ABOVE THE TOP OF

BY THE USE OF CLASS I MATERIAL.

ROADWAY.

WHEEL- LOADED.

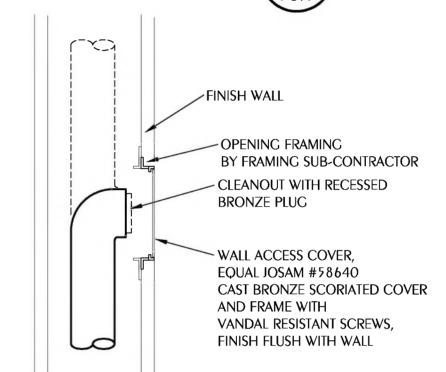
SECTION 306.

2 BEDDING IS REQUIRED PRIMARILY TO BRING THE

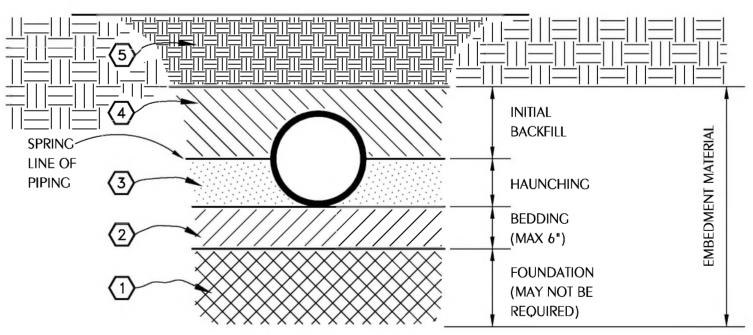
SHALL PROVIDE A UNIFORM AND ADEQUATE

WITH ESCUTCHION

14. ALL WORK SHALL COMPLY WITH THE FLORIDA BUILDING CODE 7TH EDITION (2020) PLUMBING.







1/2" CW_>

- BALL SERVICE

- DISTRIBUTION

BLOCK

TO FD TRAP PRIMER

CONNECTIONS

TRAP PRIMER DETAIL

VALVE

9x9 SCORIATED -

BRONZE HINGED/

ACCESS DOOR

TRAP

PRIMER -

18" AFF

SCALE: NONE

EMBEDMENT MATERIALS

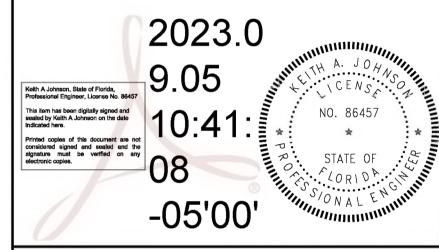
ANCUALAR, 1/4"-1-1/2", CRADED STONE, INCLUDING A NUMBER OF FILL MATERIALS THAT HAVE REGIONAL SIGNIFICANCE SUCH AS CORAL, SLAG, CINDERS, CRUSHED STONE AND CRUSHED SHELLS.

COARSE SANDS AND GRAVELS WITH MAXIMUM PARTICLE SIZE OF 1-1/2" INCLUDING VARIOUS GRADED SANDS AND GRAVELS CONTAINING SMALL PERCENTAGES OF FINES, GENERALLY CRANULAR AND NON-COHESIVE, EITHER WET OR DRY. SOIL TYPES CW, GP, SW, AND SP ARE INCLUDED IN THIS CLASS.

CLASS III: FINE SAND AND CLAY GRAVELS, INCLUDING FINE SANDS, SAND-CLAY MIXTURES AND GRAVEL-CLAY MIXTURES. SOIL TYPES GM, GC, SM, AND SC ARE INCLUDED IN THIS CLASS.

SILT, SILTY CLAYS, AND CLAYS, INCLUDING INORGANIC CLAYS AND SILT OF MEDIUM TO HIGH PLASTICITY AND LIQUID LIMITS. SOIL TYPES MH, ML, CH, AND CL ARE INCLUDED IN THIS CLASS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING, OR INITIAL BACKFILL.

THIS CLASS INCLUDES THE ORGANIC SOILS, AS WELL AS SOILS CONTAINING FROZEN EARTH, DEBRIS, ROCKS LARGER THAN 1-1/2" IN DIAMETER AND OTHER FOREIGN MATERIALS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING, OR INITIAL BACKFILL.



R	YISIONS			
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
PH	ASE	DRAWN	CHECKED	DATE
SCH	HEMATIC DESIGN			12/15/22
509	& PROGRESS DOCUMENTS	JDD	KAJ	Ø2/Ø7/2
ca	NSTRUCTION DOCUMENTS	JDD	KAJ	Ø3/21/23
BID	DOCUMENTS	JDD	KAJ	09/05/2



2211 THOMAS DR. , STE 100 PANAMA CITY BEACH, FL PHONE: (850) 236-9832



4452 Clinton Street, Marianna, Florida 32446 850.526.3447 Project Number: 2023-007 Florida Certificate of Authorization: 27825 Keith A. Johnson, PE Florida License 86457

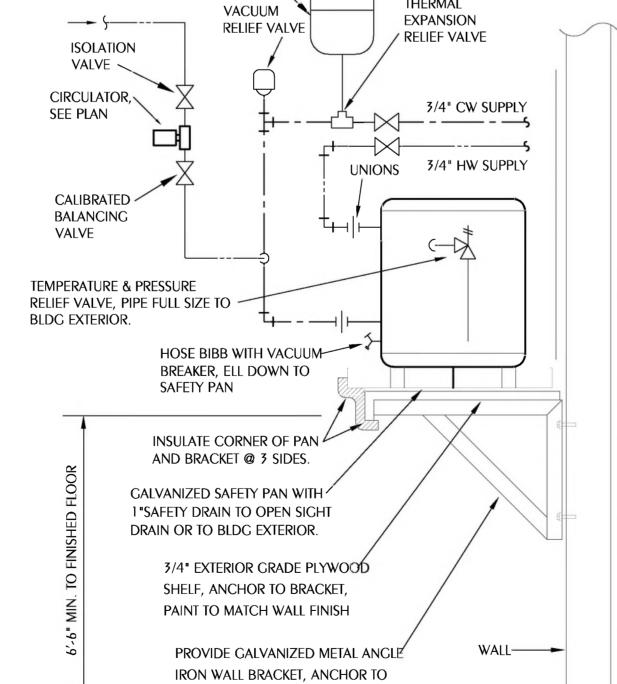
BAY HAVEN CHARTER ACADEMY CLASSROOM ADDITION

PANAMA CITY, FLORIDA

PLUMBING LEGEND, SCHEDULE, NOTES, AND DETAILS

SHEET NUMBER:





EXCAVATION AND BACKFILL DETAIL SCALE: NONE

PLUMBING SPECIFICATIONS

SCHEDULE

WC-1 WATER CLOSET, FLOOR-MOUNT (ADULT HANDICAP, MANUAL VALVE):

VITREOUS CHINA, 1.28 GALLONS PER FLUSH, ELONGATED, HIGH EFFICIENCY SIPHON JET, WHITE, WATER SAVER BOWL WITH 1-1/2" TOP SPUD, 17" HIGH FOR HANDICAPPED. EXPOSED CHROME PLATE FLUSH VALVE, WITH SCREWDRIVER STOP, VACUUM BREAKER, OUIET FLUSH FEATURE, WITH SWEAT SOLDER KIT AND CAST WALL FLANGE. HEAVY MOLDED PLASTIC, WHITE ELONGATED, OPEN FRONT SEAT LESS COVER, WITH STAINLESS STEEL, SELF-SUSTAINING CHECK HINGES. HOLD CENTERLINE FLUSH VALVE ASSEMBLY OFF FINISH WALL FOR GRAB BAR CLEARANCES, COORDINATE WITH ARCHITECTURAL DRAWINGS.

WATER CLOSET ZURN Z5665BWL VALVE ZURN Z6000PL-HET SEAT ZURN Z5955SS-EL-STS CLOSET BOLT/WAX RING KIT ZURN Z5972-COMB

WC-2 WATER CLOSET, FLOOR-MOUNT (ADULT STANDARD/CHILD ADA, MANUAL VALVE):

VITREOUS CHINA, 1.28 GALLONS PER FLUSH, ELONGATED, HIGH EFFICIENCY SIPHON JET, WHITE, WATER SAVER BOWL WITH 1-1/2" TOP SPUD. 15" HIGH FOR HANDICAPPED CHILDREN AGES 5 THROUGH 12. EXPOSED CHROME PLATE FLUSH VALVE. WITH SCREWDRIVER STOP, VACUUM BREAKER, OUIET FLUSH FEATURE, WITH SWEAT SOLDER KIT AND CAST WALL FLANGE. HEAVY MOLDED PLASTIC, WHITE, ELONGATED, OPEN FRONT SEAT LESS COVER, WITH STAINLESS STEEL, SELF-SUSTAINING CHECK HINGES.

WATER CLOSET ZURN Z5654-BWL VALVE ZURN Z6000PL-HET SEAT ZURN Z5955SS-JUV-STS CLOSET BOLT/WAX RING KIT ZURNZ5972-COMB

UR-1 URINAL, WALL-MOUNT (HANDICAP, MANUAL VALVE):

VITREOUS CHINA, 0.5 GALLONS PER FLUSH, SIPHON JET FLUSH, 3/4" TOP SPUD, AND 2" OUTLET URINAL. EXPOSED CHROME PLATED FLUSH VALVE WITH SCREWDRIVER STOP, VACUUM BREAKER AND QUIET FLUSH FEATURE. MOUNT TO SATISFY ADA REQUIREMENTS, COORDINATE WITH ARCHITECTURAL DRAWINGS (TOILET ROOM ELEVATIONS) FOR FINAL MOUNTING HEIGHT. FURNISH FLOOR MOUNTED SINGLE CARRIER WITH HANGER PLATE, BEARING PLATE, ADJUSTABLE SUPPORTING RODS, STRUCTURAL UPRIGHTS AND BLOCK BASES. SECURE BASE TO FLOOR FOR RIGID CONNECTION WITH 1/2" X 3-3/4" THREADED ZINC PLATED STEEL HEAVY DUTY WEDGE ANCHORS, COMPLETE WITH STAINLESS STEEL CLIP, WASHER AND THREADED NUT, CONFORMING TO FEDERAL SPEC. FF-S-325.

URINAL ZURN Z5738-U VALVE ZURN Z6003AV URINAL FLANCE KIT ZURN Z5976-URINAL CARRIER ZURN Z-1222 **BASE ANCHORAGE** B-LINE ANCHORS AWA-50-375

UR-2 URINAL, WALL-MOUNT (STANDARD, MANUAL VALVE):

VITREOUS CHINA, 0.5 GALLONS PER FLUSH, SIPHON JET FLUSH, 3/4" TOP SPUD, AND 2" OUTLET URINAL. EXPOSED CHROME PLATED FLUSH VALVE WITH SCREWDRIVER STOP, VACUUM BREAKER AND QUIET FLUSH FEATURE. SEE ARCHITECTURAL DRAWINGS (TOILET ROOM ELEVATIONS) FOR MOUNTING HEIGHT. FURNISH FLOOR MOUNTED SINGLE CARRIER WITH HANGER PLATE. BEARING PLATE, ADJUSTABLE SUPPORTING RODS, STRUCTURAL UPRIGHTS AND BLOCK BASES, SECURE BASE TO FLOOR FOR RIGID CONNECTION WITH 1/2" X 3-3/4" THREADED ZINC PLATED STEEL HEAVY DUTY WEDGE ANCHORS, COMPLETE WITH STAINLESS STEEL CLIP, WASHER AND THREADED NUT, CONFORMING TO FEDERAL SPEC. FF-S-325.

URINAL ZURN Z5738-U VALVE ZURN Z6003AV-EWS ZURN Z5976-URINAL URINAL FLANGE KIT CARRIER ZURN Z-1222 BASE ANCHORAGE B-LINE ANCHORS AWA-50-375

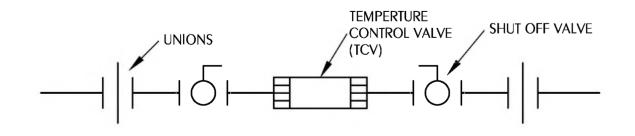
L-1 LAVATORY, WALL-MOUNT (HANDICAP):

VITREOUS CHINA 20" X 18", COLOR "WHITE", CENTER HOLE SETTING, FRONT OVERFLOW, FOR CONCEALED ARM SUPPORT. FURNISH FLOOR-MOUNTED SINGLE CARRIER WITH CONCEALED ARMS, LEVELING AND SECURING SCREWS, STRUCTURAL UPRIGHTS AND BLOCK BASES. SECURE BASE TO FLOOR FOR RIGID CONNECTION WITH 1/2" X 3-3/4" THREADED ZINC PLATED STEEL HEAVY DUTY WEDGE ANCHORS, COMPLETE WITH STAINLESS STEEL CLIP, WASHER AND THREADED NUT, CONFORMING TO FEDERAL SPEC. FF-S-325. PROVIDE CHROME PLATED 1/2" IPS X 3/8"OD, LOOSE KEY OPERATED, ANGLE STOP TO WALL WITH CHROME PLATED 3/8" FLEXIBLE COPPER RISERS, INTEGRAL PERFORATED CAST BRASS STRAINER WITH ELBOW AND 1-1/4" OFFSET TAILPIECE, CHROME PLATED 17 CAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL. POLISHED CHROME PLATED CAST BRASS SINGLE WATER METERING FAUCET WITH COVER PLATE, 0.5 CPM AERATOR OUTLET AND PUSH BUTTON. LAVATORY P-TRAP AND ANGLE VALVE ASSEMBLIES SHALL BE INSULATED WITH FULLY MOLDED INSULATION KIT, AND LIGHT GRAY COLOR WITH 3-PIECE INTERLOCKING TRAP ASSEMBLY AND 2-PIECE INTERLOCKING ANGLE VALVE ASSEMBLY. FASTENERS SHALL BE NYLON-TYPE SUPPLIED WITH KIT. LAVATORY SHALL BE MOUNTED WITH A CLEARANCE OF AT LEAST 28" FROM FLOOR TO BOTTOM OF THE APRON. KNEE AND TOE CLEARANCES SHALL BE AS FOLLOWS: 27" CLEAR HEIGHT SHALL BE PROVIDED FROM FINISHED FLOOR TO A POINT ON UNDERSIDE OF BOWL 8" IN FROM FRONT APRON. TOE CLEARANCE SHALL BE A MINIMUM HEICHT OF 9" UNDER P-TRAP AND SUPPLIES OR STOPS. SEE ARCHITECTURAL DRAWINGS FOR FINAL MOUNTING HEIGHT.

LAVATORY ZURN Z5111 **FAUCET** ZURN Z-86300-3M SUPPLY W/STOP ZURN Z8802LRLK-PC **ZURN Z8700-PC** P-TRAP STRAINER/TAILPIECE **ZURN Z8746 INSULATION KIT** ZURN Z8946-3-NT CARRIER ZURN Z-1231 **B-LINE ANCHORS AWA-50-375** BASE ANCHORAGE

L-2 LAVATORY, WALL-MOUNT:

VITREOUS CHINA 20" X 18", OVAL, COLOR "WHITE", CENTER HOLE SETTING, FRONT OVERFLOW. PROVIDE CHROME





PLATED 1/2" IPS X 3/8"OD. LOOSE KEY OPERATED. ANGLE STOP TO WALL WITH CHROME PLATED 3/8" FLEXIBLE COPPER RISERS, INTEGRAL PERFORATED CAST BRASS STRAINER WITH ELBOW AND 1-1/4" TAILPIECE, CHROME PLATED 17 CAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL. POLISHED CHROME PLATED CAST BRASS SINCLE WATER METERING FAUCET WITH COVER PLATE, 0.5 CPM AERATOR OUTLET AND PUSH BUTTON.

LAVATORY ZURN Z5111 FAUCET ZURN Z-86300-3M SUPPLY W/STOP ZURN Z8802LRLK-PC P-TRAP ZURN Z8700-PC STRAINER/TAILPIECE ZURN Z8746 **INSULATION KIT** ZURN Z8946-3-NT CARRIER ZURN Z-1231 BASE ANCHORAGE B-LINE ANCHORS AWA-50-375

L-3 LAVATORY, WALL-MOUNT (HANDICAP):

VITREOUS CHINA 20" X 18", COLOR "WHITE", 8" ON CENTERS, FRONT OVERFLOW, FOR CONCEALED ARM SUPPORT. FURNISH FLOOR-MOUNTED SINGLE CARRIER WITH CONCEALED ARMS, LEVELING AND SECURING SCREWS, STRUCTURAL UPRIGHTS AND BLOCK BASES, SECURE BASE TO FLOOR FOR RIGID CONNECTION WITH 1/2" X 3-3/4" THREADED ZINC PLATED STEEL HEAVY DUTY WEDGE ANCHORS, COMPLETE WITH STAINLESS STEEL CLIP, WASHER AND THREADED NUT, CONFORMING TO FEDERAL SPEC. FF-S-325. PROVIDE CHROME PLATED ANGLE STOP TO WALL WITH CHROME PLATED 3/8" FLEXIBLE SUPPLY AND LOOSE KEY OPERATOR, INTEGRAL PERFORATED CAST BRASS STRAINER WITH ELBOW AND 1-1/4" OFFSET TAILPIECE, CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL. POLISHED CHROME PLATED CAST BRASS WATER FAUCET WITH WRIST BLADE HANDLES, WITH 0.5 CPM AERATOR, LAVATORY P-TRAP AN ANGLE VALVE ASSEMBLIES SHALL BE INSULATED WITH FULLY MOLDED INSULATION KIT, AND LIGHT GRAY COLOR WITH 3-PIECE INTERLOCKING TRAP ASSEMBLY AND 2-PIECE INTERLOCKING ANGLE VALVE ASSEMBLY. FASTENERS SHALL BE NYLON-TYPE SUPPLIED WITH KIT. LAVATORY SHALL BE MOUNTED WITH A CLEARANCE OF AT LEAST 28" FROM FLOOR TO BOTTOM OF THE APRON. KNEE AND TOE CLEARANCES SHALL BE AS FOLLOWS: 27" CLEAR HEIGHT SHALL BE PROVIDED FROM FINISHED FLOOR TO A POINT ON UNDERSIDE OF BOWL 8" IN FROM FRONT APRON. TOE CLEARANCE SHALL BE A MINIMUM HEIGHT OF 9" UNDER P-TRAP AND SUPPLIES OR STOPS. SEE ARCHITECTURAL DRAWINGS FOR FINAL MOUNTING HEIGHT. UNDER SINK MIXING VALVE WITH THREADED CONNECTION, BRONZE BODY, LIMITS HOT WATER BETWEEN 80°F & 120°F AND SET AT 95 DEGREE F, DOUBLE THROTTLING, INTEGRAL INLET FILTER WASHERS & CHECK VALVES, TAMPER RESISTANT LOCKING CAP. MEETS ASSE 1070 STANDARDS.

LAVATORY ZURN Z5348 FAUCET ZURN Z-81104-XL-3M SUPPLY W/STOP ZURN Z8800LRLK-PC P-TRAP ZURN Z8700-PC STRAINER/TAILPIECE ZURN Z8746 ZURN Z8946-3-NT **INSULATION KIT** CARRIER ZURN Z-1231 B-LINE ANCHORS AWA-50-375 BASE ANCHORAGE MIXING VALVE

ELECTRIC WATER COOLER (DUAL PURPOSE/TWO LEVELS/BOTTLE STATION):

WALL MOUNT, DUAL-PURPOSE UNIT, SELF-CONTAINED ELECTRIC WATER COOLER WITH SENSOR-ACTIVATED BOTTLE FILLING STATION. FURNISH FLOOR MOUNTED TWO LEVELS DOUBLE CARRIER WITH BEARING PLATE, HANGAR PLATE, ADJUSTABLE SUPPORTING RODS. STRUCTURAL UPRIGHTS AND BLOCK BASES, SECURE TO FLOOR WITH 1/2" BOLTS AND ANCHORS. UNIT TO BE COMPLETE WITH HERMETIC AIR COOLED REFRICERATION SYSTEM, COOLER PRE-COOLER, THERMOSTAT, SAFETY CONTROLS, CONDENSER FAN MOTOR, SILVER ION ANTIMICROBIAL PROTECTION ON KEY PLASTIC COMPONENTS, FLEXI-GUARD SAFETY BUBBLER, VERMIN PROOF INSULATION, HEAVY CAUGE STEEL CABINET, MOISTURE RESISTANT FINISH, QUIET OPERATION. TOP OF COOLER SHALL BE NO. 3 SATIN FINISH STAINLESS STEEL. COOLER CAPACITY SHALL BE 8.0 GPH. LAMINAR FLOW, VISUAL FILTER MONITOR, COOLING 80-DEGREE F WATER TO 50 DEGREE F. PROVIDE ONE-YEAR WARRANTY ON ENTIRE COOLER. PROVIDE CHROME PLATED STOP TO WALL WITH CHROME PLATED 3/8" FLEXIBLE SUPPLY. PROVIDE 1-1/2" CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT. CHROME PLATED LOOSE KEY ANCLE STOP TO WALL WITH 3/8" CHROME PLATED FLEXIBLE HOT AND COLD WATER SUPPLIES. 115V/60HZ, SINGLE PHASE, 5 FULL LOAD AMPS, 370 RATED WATTS, HERMETICALLY-SEALED RECIPROCATING COMPRESSOR. VERIFY FINAL LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS. FINISH TO BE SELECTED BY ARCHITECT. CERTIFIED TO NSF/ANSI 42, 53, 61, & 372. UL 399 REQUIREMENTS.

ELKAY LZSTL8WSSP ZURN Z-8702-PC **SUPPLIES ZURN Z-8800LK** CARRIER Z1225 BL

MV-1 WATER MIXING VALVE (THERMOSTATIC MIXING):

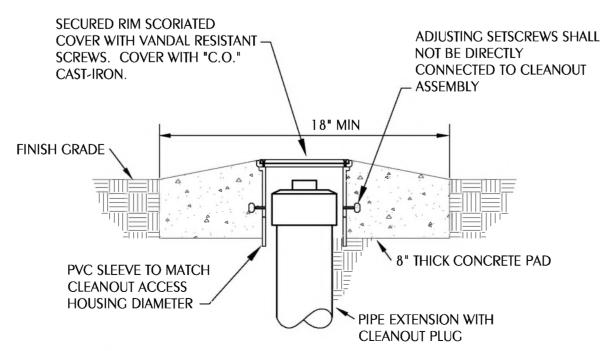
UNDER SINK 3/8" COMPRESSION FITTING MIXING VALVE, BRASS BODY, LEAD FREE, LIMITS HOT WATER BETWEEN 80°F & 120°F, DUAL CHECK VALVES, 0.25CPM MIN. FLOW, 40 MESH STAINLESS STEEL STRAINER, TAMPER RESISTANT LOCKING CAP. MEETS ASSE 1070 STANDARDS.

EXPOSED MIXING VALVE WATTS LFUSG-B

EWH-1 ELECTRIC WATER HEATER:

ASHRAE STANDARD 90, CLASS LINED TANK SUITABLE FOR 150 PSI WORKING PRESSURE, 300-PSI TEST. FINISH OF DURABLE HIGH GLOSS BAKED ENAMEL. BLANKET GLASS FIBER INSULATION OVER ENTIRE TANK. CONTROL CIRCUIT TRANSFORMER AND MANUAL RESET HIGH TEMPERATURE LIMIT CONTROL. ASME PRESSURE AND TEMPERATURE RELIEF VALVE. WATER HEATER SHALL BE ACCEPTABLE FOR COMMERCIAL APPLICATION BY MANUFACTURER. PROVIDE 3 FULL YEAR WARRANTY. SNAP ACTION AUTOMATIC IMMERSION MOUNTED THERMOSTATS, IMMERSION TYPE HEATING ELEMENTS AND MACNESIUM ANODE ROD, PROVIDE UNIT MOUNTED DISCONNECT SWITCH. PROVIDE INLET AND OUTLET SHUT-OFF VALVES, VACUUM RELIEF VALVE ON INLET WATER SUPPLY. PROVIDE GALVANIZED STEEL DRIP PAN. PROVIDE PRE-CHARGED EXPANSION TANK, OUTER STEEL SHELL (FLEXIBLE DIAPHRAGM TYPE), ON COLD WATER INLET SIDE OF WATER HEATER FOR THERMAL EXPANSION CONTROL, TANK VOLUME IN GALLONS SHALL BE OF SUFFICIENT SIZE TO ACCOMMODATE WATER HEATER SIZE IN GALLONS. 20 GAL 3KW PHASE.

WATER HEATER A. O. SMITH DEL 20 VACUUM RELIEF WATTS 36A AMTROL "THERM-X-TROL" **EXPANSION TANK**



CLEANOUT TO GRADE

IWH-1 INSTANTANEOUS WATER HEATER:

3.5 KW AT 120V/1 PHASE. COMMERCIAL ELECTRIC WATER HEATERS SHALL BE CONTROLLED BY AN INTEGRATED MICROPROCESSOR THAT EMPLOYS A PROPORTIONAL/INTEGRAL/DERIVATIVE (PID) CONTROL SCHEME USING THERMISTORS FOR SENSING TEMPERATURE AND FLOW. HEAT ELEMENTS SHALL SIMULTANEOUSLY VARY KW INPUT ACROSS ALL ELEMENTS FROM 1% TO MAXIMUM INPUT. STEPPING OF INDIVIDUAL ELEMENTS IS NOT ACCEPTABLE. HEATER SHALL INCLUDE DUAL WATER LEVEL SENSORS, HIGH LIMIT CONTROL VIA THE MICROPROCESSOR, AND DUAL HIGH LIMIT CUTOFF SWITCHES, ONE MANUAL AND ONE AUTOMATIC. HEATERS SHALL INCLUDE SELF-DIAGNOSTICS WITH AN LED AND SPEAKER AND MUST VISUALLY AND AUDIBLY SIGNAL THE STATUS OF ALL MONITORED FUNCTIONS. HEATERS SHALL INCLUDE A BUILT-IN LEAK DETECTOR. ALL WATER PASSAGES MUST BE CONSTRUCTED OF A HIGH TEMPERATURE RESISTANT DUPONT RESIN. CLEAN-CUT ACCESS FOR REMOVING SEDIMENT MUST BE PROVIDED WITHOUT REMOVING PLUMBING CONNECTIONS OR EXPOSING ELECTRICAL COMPONENTS OF THE WATER HEATER. PROVIDE 5 YEAR LIMITED WARRANTY.

WATER HEATER EEMAX EX3512T

CP-1 CIRCULATOR PUMP (INLINE TYPE):

INFINITELY VARIABLE CIRCULATOR MADE OF COMPOSITE CASING, HOUSING, IMPELLER, CERAMIC SHAFT, AND CARBON BEARINGS. A 44 WATT ECM PERMANENT MAGNET MOTOR AND ELECTRICAL CHARACTERISTICS ARE 120V/1 PHASE, 60 HZ., WITH 1" CONNECTIONS, MAXIMUM OPERATING PRESSURE OF 150 PSI, UL STANDARD 778 AND NSF CERTIFIED. DIGITAL TIMER WITH CIRCULATOR PROGRAMMING. TEMPERATURE AOUASTAT, MAINTAINS WATER TEMPERATURE BETWEEN 95°F AND 115°F. CIRCUIT SETTER CALIBRATED BALANCE VALVE. LEAD-FREE BRASS. WITH 1/4" NPT TAPPED DRAIN PORT, MEMORY STOP FEATURE, SET AT 1 CPM. PROVIDE CIRCUIT SOLVER A SELF-ACTING THERMOSTATIC RECIRCULATION VALVE

CIRCULATOR TACO 006E3 TIMER TACO 265-3 AOUASTAT TACO 563-2 CIRCUIT SETTER XYLEM CB-1/2S LF RECIRCULATION VALVE (TVC) CIRCUIT SOLVER CS-1/2-110

TCV TEMPERATURE CONTROL VALVE:

CIRCUIT SOLVER A SELF-ACTING THERMOSTATIC RECIRCULATION VALVE SET AT 110°F

RECIRCULATION VALVE (TVC) CIRCUIT SOLVER CS-1/2-110

FD FLOOR DRAIN:

SET AT 110°F.

DURA-COATED CAST IRON BODY, BOTTOM OUTLET AND TRAP PRIMER CONNECTION, TYPE B POLISHED NICKEL BRONZE STRAINER. MEMBRANE CLAMP & ADJUSTABLE COLLAR WITH SLOTS.

FLOOR DRAIN ZURN Z-415B-P

HDFD FLOOR DRAIN:

DURA-COATED CAST IRON BODY, BOTTOM OUTLET AND TRAP PRIMER CONNECTION. INSIDE CAULK BOTTOM OUTLET OR TY-SEAL HUB OUTLET WITH ADAPTOR FOR CAST IRON TRAP INSTALLATION AND A 4" DEEP TRAP SEAL. PROVIDE CLAMPING RINGS FOR FLOORS WITH MEMBRANE

FLOOR DRAIN ZURN Z541-4-IC

TP TRAP PRIMERS

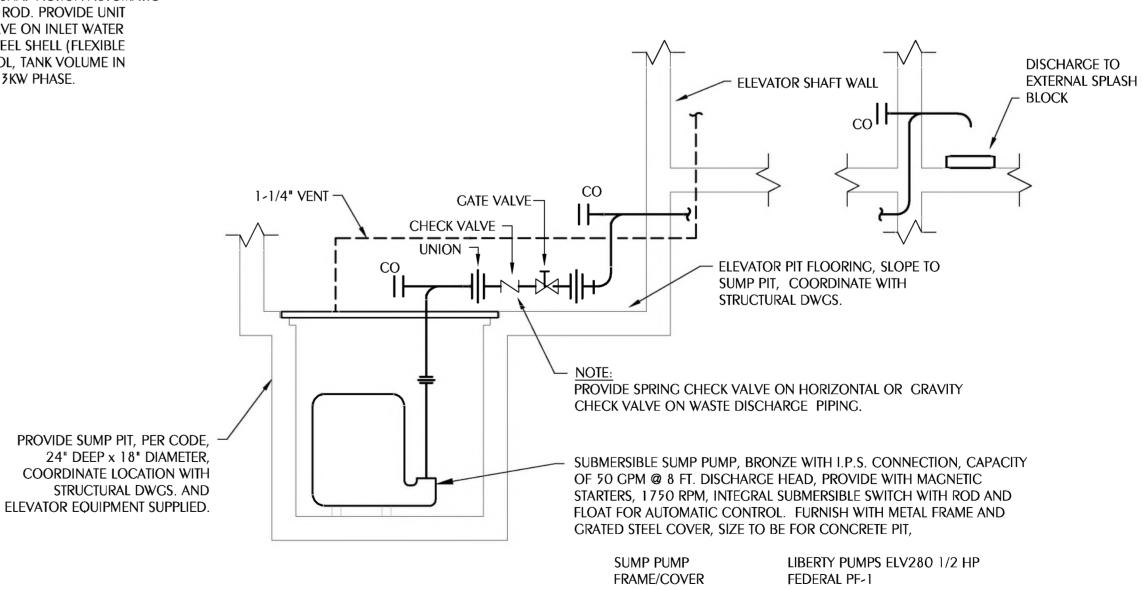
PROVIDE BRASS TRAP PRIMERS AND DISTRIBUTION UNITS TO SEAL FLOOR DRAINS INDICATED ON DRAWINGS. TRAP PRIMER VALVES SHALL BE AUTOMATIC, SELF CONTAINED TYPE WITH NO SPRINGS OR DIAPHRAGMS AND SHALL NOT REQUIRE ADJUSTMENT. INLET AND OUTLET SIZE IS 1/2". TRAP PRIMER VALVES SHALL BE THE TYPE THAT CAN BE INSTALLED ANYWHERE ON COLD WATER PIPING SIZE 1-1/2" OR LESS. DISTRIBUTION UNITS SHALL SUPPLY 1-4 FLOOR DRAINS. TRAP PRIMER VALVES SHALL COMPLY WITH ASSE 1018. PRECISION PLUMBING PRODUCTS (PPP)

Trap Primer PPP PR-500 PPP DU-U DISTRIBUTION UNIT

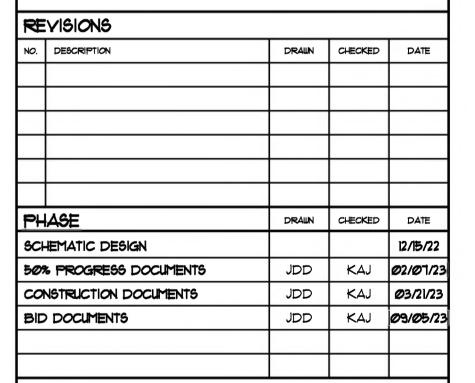
SP-1 SUMP PUMP:

SUBMERSIBLE SUMP PUMP, BRONZE WITH I.P.S. CONNECTION, CAPACITY OF 50 CPM @ 14 FT. DISCHARGE HEAD, PROVIDE WITH MAGNETIC STARTERS, 3450 RPM, INTEGRAL SUBMERSIBLE SWITCH WITH ROD AND FLOAT FOR AUTOMATIC CONTROL. FURNISH WITH METAL FRAME AND STEEL COVER. SIZE TO BE FOR 24"X24"X30" DEEP CONCRETE PIT, COORDINATE WITH STRUCTURAL AND ARCHITECTURAL ELEVATOR WALL FOOTING DETAILS.

SUMP PUMP LIBERTY ELV280 REMOTE ALARM LIBERTY OTC-115





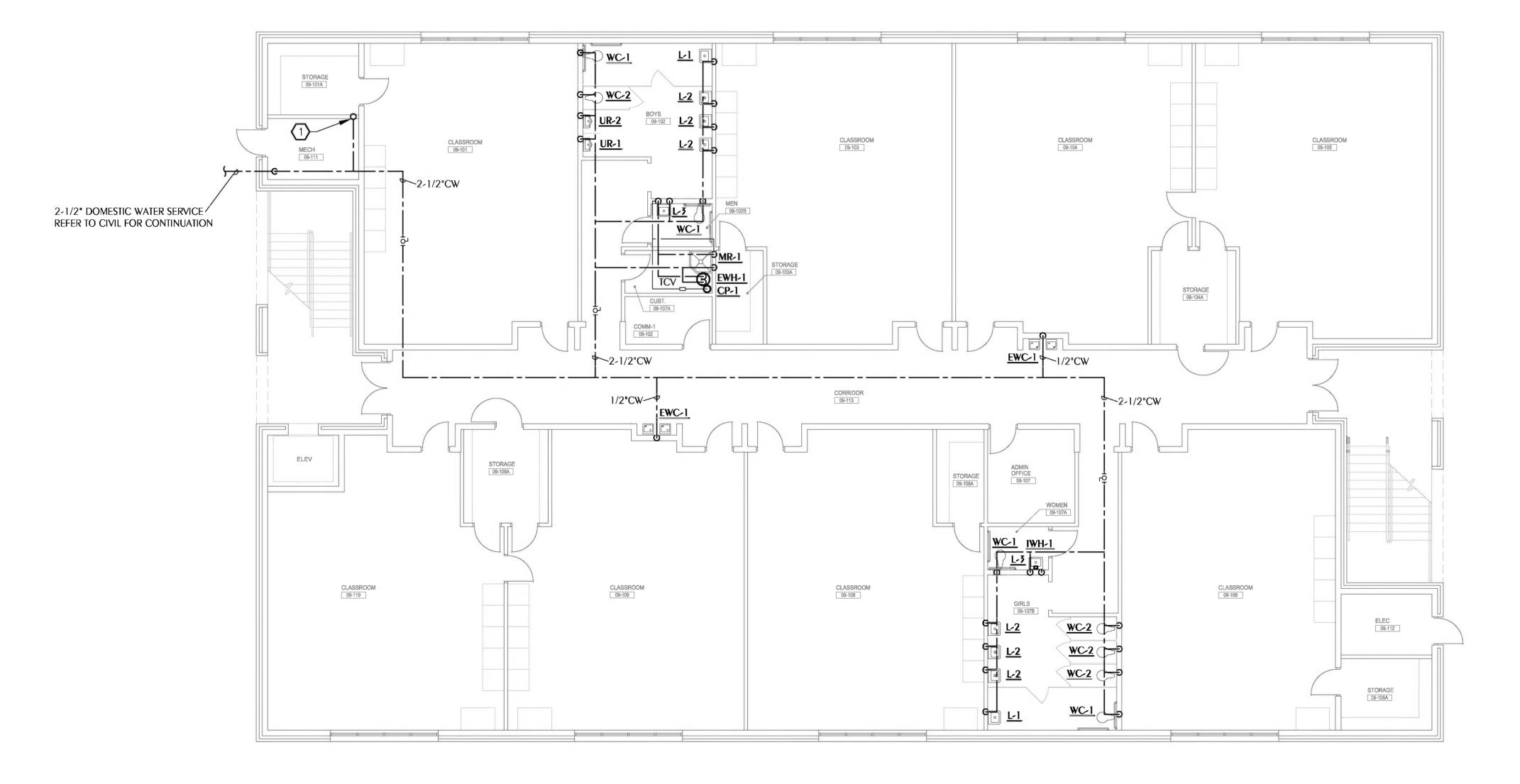






BAY HAVEN CHARTER ACADEMY CLASSROOM ADDITION PANAMA CITY, FLORIDA

PLUMBING SPECIFICATIONS AND DETAILS



PLUMBING DOMESTIC WATER PLAN - FIRST FLOOR SCALE: 1/8" = 1'-0"

SHEET NOTES

2-1/2"CW UP TO SECOND FLOOR.

R	YISIONS			
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
PH	IASE	DRAWN	CHECKED	DATE
SCH	HEMATIC DESIGN			12/15/22
509	% PROGRESS DOCUMENTS	JDD	KAJ	Ø2/Ø7/23
CO	NSTRUCTION DOCUMENTS	JDD	KAJ	Ø3/21/23
BID	DOCUMENTS	JDD	KAJ	<i>09/05/</i> 23



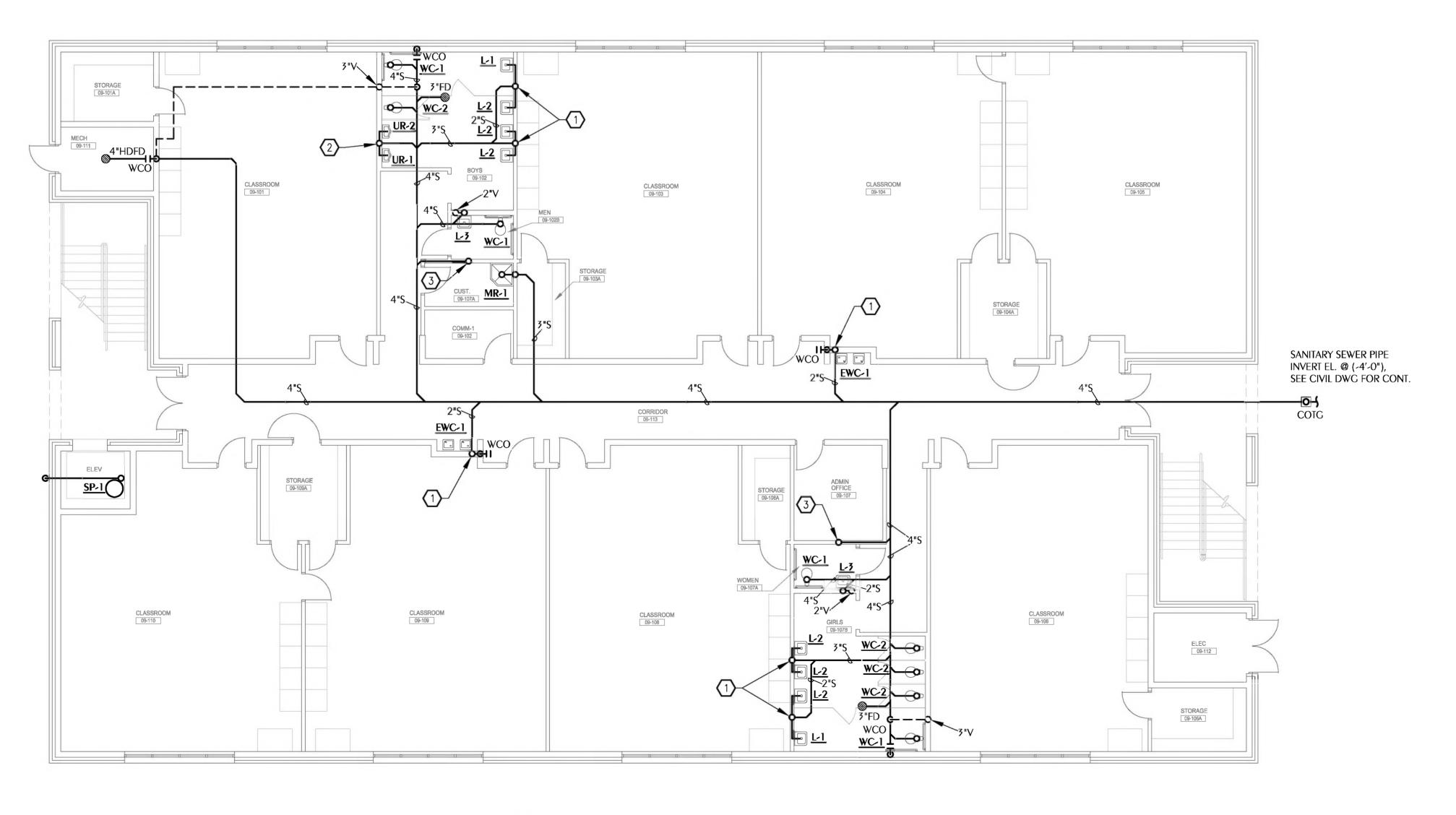
2211 THOMAS DR., STE 100
PANAMA CITY BEACH, FL
PHONE: (850) 236-9832
ARCHITECTS
Commission Number: 22828



BAY HAVEN CHARTER ACADEMY CLASSROOM ADDITION PANAMA CITY, FLORIDA

PLUMBING DOMESTIC WATER PLAN - FIRST FLOOR





PLUMBING SANITARY PLAN - FIRST FLOOR

SCALE: 1/8" = 1'-0"

REFERENCE: FINISHED FLOOR ELEVATION = 0'-0"

SHEET NOTES

- 2" SANITARY DOWN FROM SECOND FLOOR
- 2 3" SANITARY DOWN FROM SECOND FLOOR
- 4" SANITARY DOWN FROM SECOND FLOOR

R	YISIONS			
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
귙	ASE	DRAWN	CHECKED	DATE
SCH	HEMATIC DESIGN			12/15/22
509	PROGRESS DOCUMENTS	JDD	KAJ	<i>0</i> 2/ <i>0</i> 7/23
co	NSTRUCTION DOCUMENTS	JDD	KAJ	Ø3/21/23
BID	DOCUMENTS	JDD	KAJ	<i>0</i> 9/ <i>0</i> 5/23



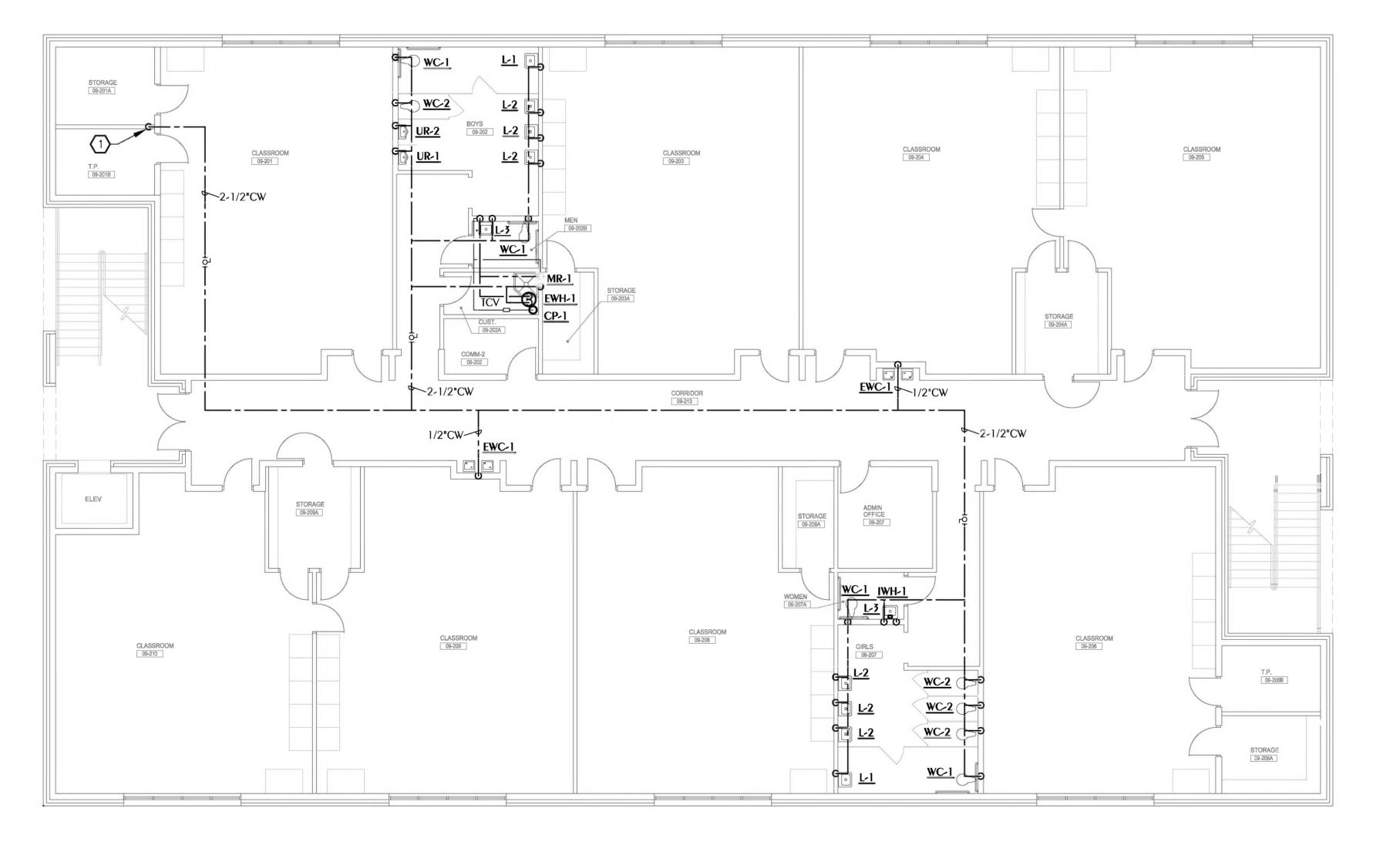
2211 THOMAS DR., STE 100
PANAMA CITY BEACH, FL
PHONE: (850) 236-9832
ARCHITECTS
Commission Number: 22828



WATFORD ENGINEERING 4452 Clinton Street, Marianna, Florida 32446 850.526.3447 Project Number: 2023-007 Florida Certificate of Authorization: 27825 Keith A. Johnson, PE Florida License 86457

BAY HAVEN CHARTER ACADEMY CLASSROOM ADDITION PANAMA CITY, FLORIDA

SHEET TITLE:
PLUMBING SANITARY PLAN -FIRST FLOOR



PLUMBING DOMESTIC WATER PLAN - SECOND FLOOR SCALE: 1/8" = 1'-0"

SHEET NOTES

2-1/2"CW UP FROM FIRST FLOOR.

W	:YISIONS			
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
PH	IASE	DRAWN	CHECKED	DATE
SCH	HEMATIC DESIGN			12/15/22
509	% PROGRESS DOCUMENTS	JDD	KAJ	Ø2/Ø7/23
co	NSTRUCTION DOCUMENTS	JDD	KAJ	Ø3/21/23
BID	DOCUMENTS	JDD	KAJ	09/05/ 23



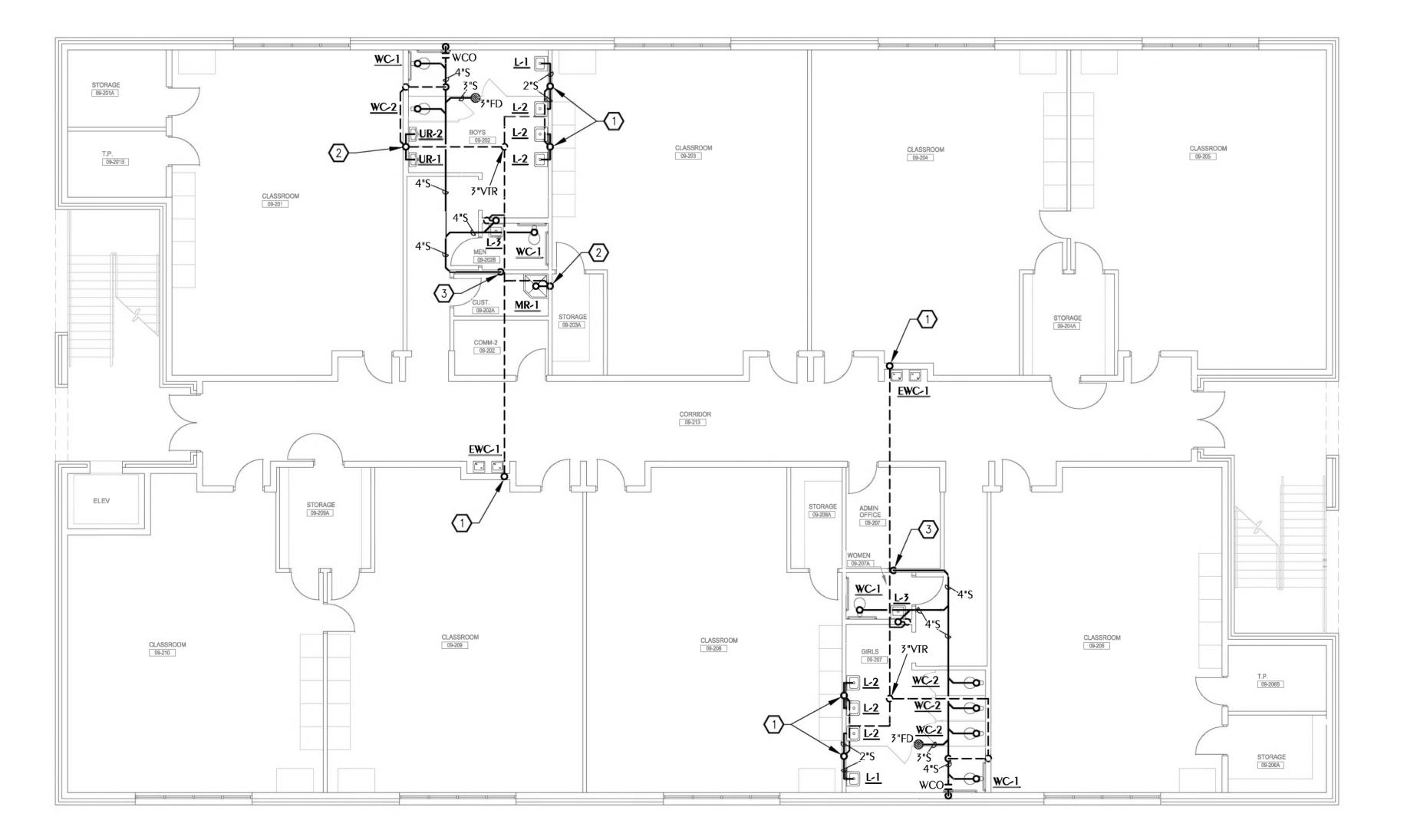
2211 THOMAS DR., STE 100
PANAMA CITY BEACH, FL
PHONE: (850) 236-9832
ARCHITECTS
Commission Number: 22828



BAY HAVEN CHARTER ACADEMY CLASSROOM ADDITION PANAMA CITY, FLORIDA

PLUMBING DOMESTIC WATER PLAN - SECOND FLOOR

P1.2





SHEET NOTES

- 2" SANITARY DOWN TO FIRST FLOOR
- 3" SANITARY DOWN TO FIRST FLOOR
- 4" SANITARY DOWN TO FIRST FLOOR

R	YISIONS			
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
PH	IASE	DRAWN	CHECKED	DATE
SCI	HEMATIC DESIGN			12/15/22
509	% PROGRESS DOCUMENTS	JDD	KAJ	Ø2/Ø7/23
co	NSTRUCTION DOCUMENTS	JDD	KAJ	Ø3/21/23
BID	DOCUMENTS	JDD	KAJ	<i>0</i> 9/ <i>0</i> 5/23



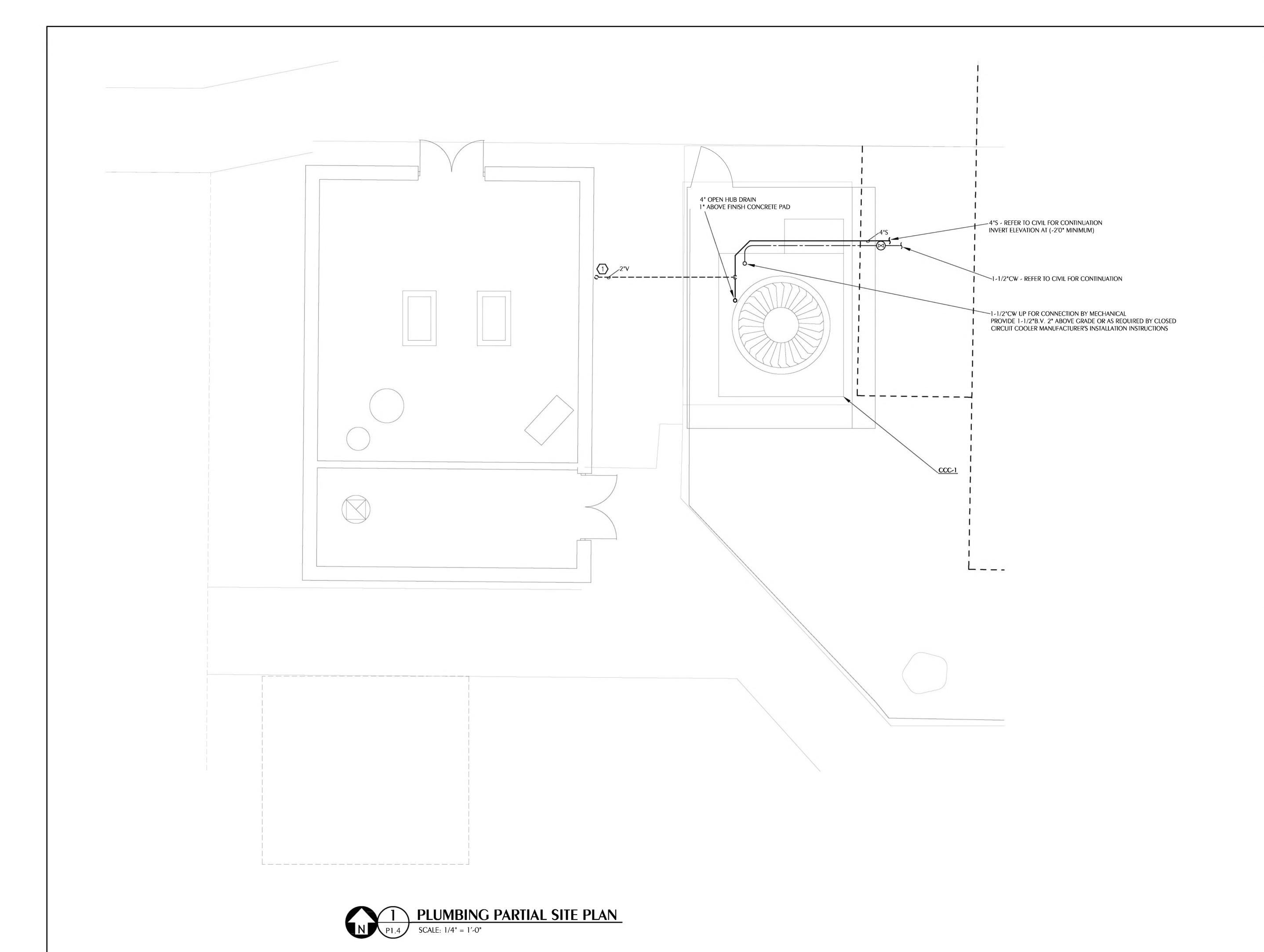
2211 THOMAS DR., STE 100
PANAMA CITY BEACH, FL
PHONE: (850) 236-9832
ARCHITECTS
Commission Number: 22828



BAY HAVEN CHARTER ACADEMY CLASSROOM ADDITION PANAMA CITY, FLORIDA

SHEET TITLE:
PLUMBING SANITARY PLAN -SECOND FLOOR

P1.3



SHEET NOTES

PROVIDE 2"VENT TERMINAL. VENT TERMINAL SHALL BE MINIMUM 10'0" HORIZONTAL FROM ANY OPENABLE WINDOW, AIR INTAKE, OR DOOR. SHALL NOT TERMINATE BELOW A VENTED SOFFIT UNLESS THE VENT TERMINATION IS A MINIMUM OF 3'0" ABOVE SUCH OPENING OR SOFFIT. SECURE VENT PIPING TO EXTERIOR WALL. PAINT TO MATCH EXISTING BUILDING COLOR OR AS DIRECTED

RE	YISIONS			
NO.	DESCRIPTION	DRAWN	CHECKED	DATE
PH	ASE	DRAWN	CHECKED	DATE
SCH	HEMATIC DESIGN			12/15/22
509	ROGRESS DOCUMENTS	JDD	KAJ	@2/@7/2 :
CO	NSTRUCTION DOCUMENTS	JDD	KAJ	Ø3/21/23
BID	DOCUMENTS	JDD	KAJ	<i>0</i> 9/ <i>0</i> 5/2



2211 THOMAS DR., STE 100
PANAMA CITY BEACH, FL
PHONE: (850) 236-9832
ARCHITECTS
Commission Number: 22828

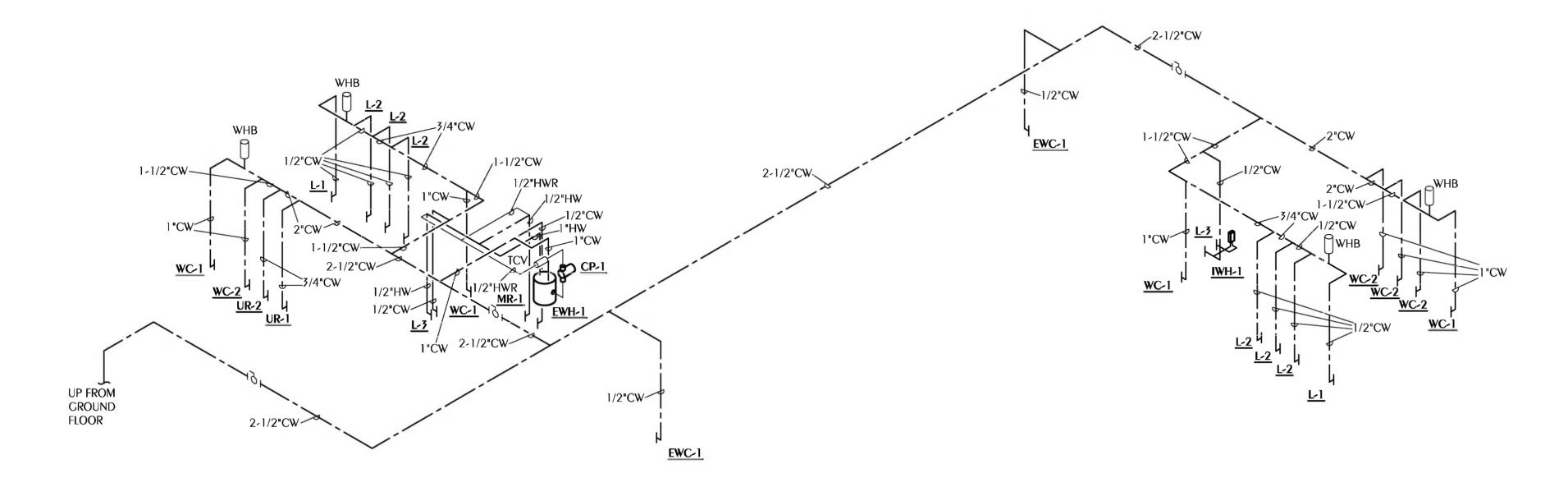


WATFORD ENGINEERING 4452 Clinton Street, Marianna, Florida 32446 850.526.3447 Project Number: 2023-007 Florida Certificate of Authorization: 27825 Keith A. Johnson, PE Florida License 86457

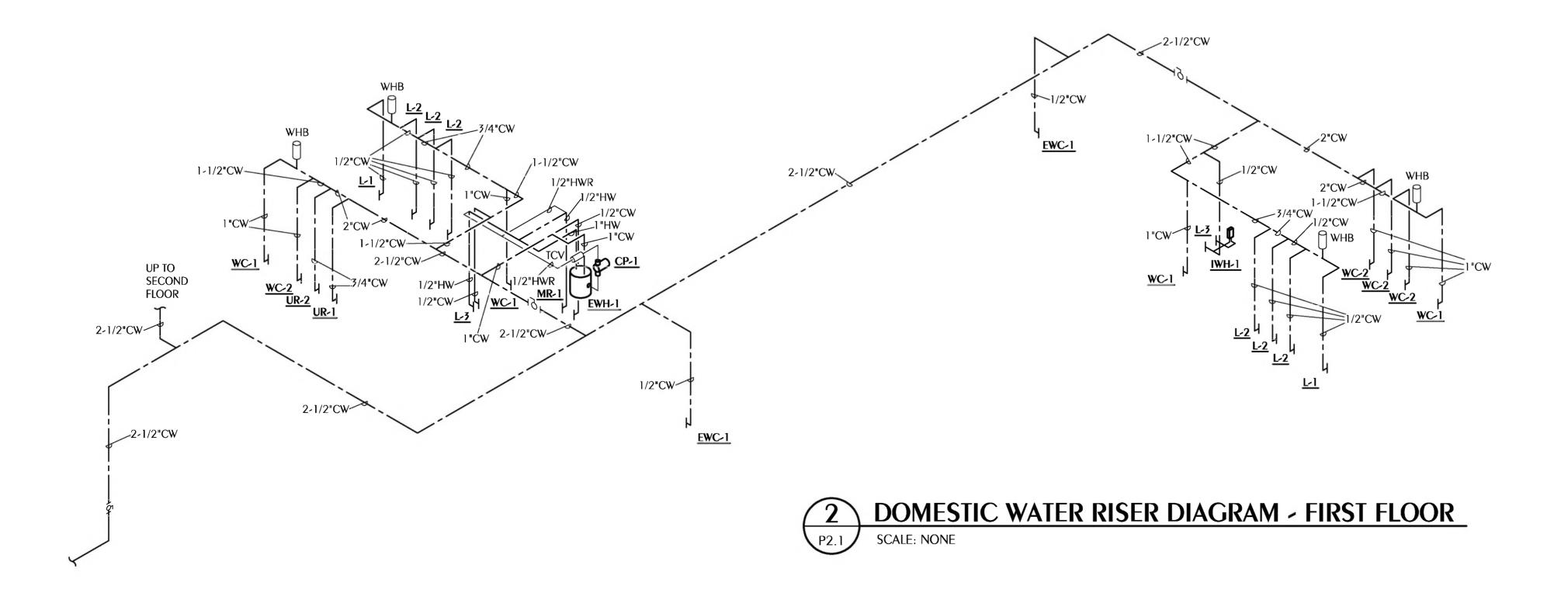
BAY HAVEN CHARTER ACADEMY CLASSROOM ADDITION

PANAMA CITY, FLORIDA

SHEET TITLE:
PLUMBING PARTIAL SITE PLAN



DOMESTIC WATER RISER DIAGRAM - SECOND FLOOR



<u> </u>	EVISIONS			_
NO.	DESCRIPTION	DRAWN	CHECKED	
				L
				L
				L
				L
				L
PH	IASE	DRAWN	CHECKED	Ι
SCI	HEMATIC DESIGN			Γ
509	% PROGRESS DOCUMENTS	JDD	KAJ	e
co	NSTRUCTION DOCUMENTS	JDD	KAJ	1
BID	DOCUMENTS	JDD	KAJ	e
				T



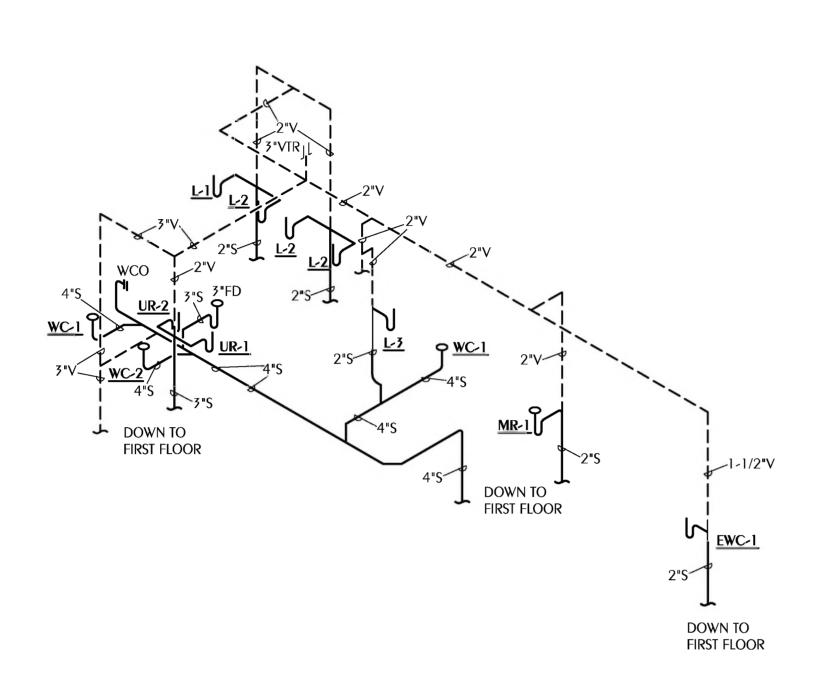
2211 THOMAS DR., STE 100
PANAMA CITY BEACH, FL
PHONE: (850) 236-9832
ARCHITECTS
Commission Number: 22828

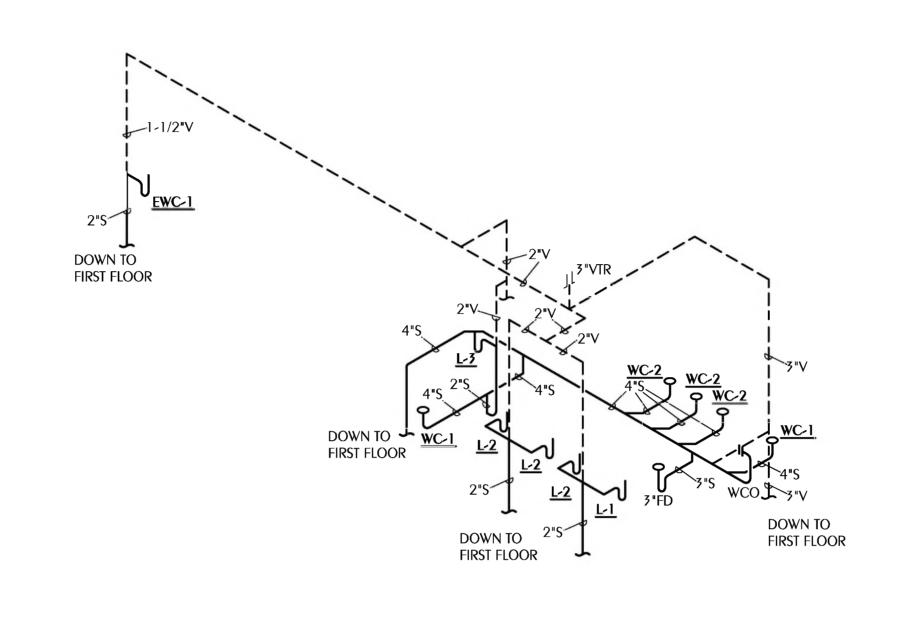


BAY HAVEN CHARTER ACADEMY CLASSROOM ADDITION

PANAMA CITY, FLORIDA

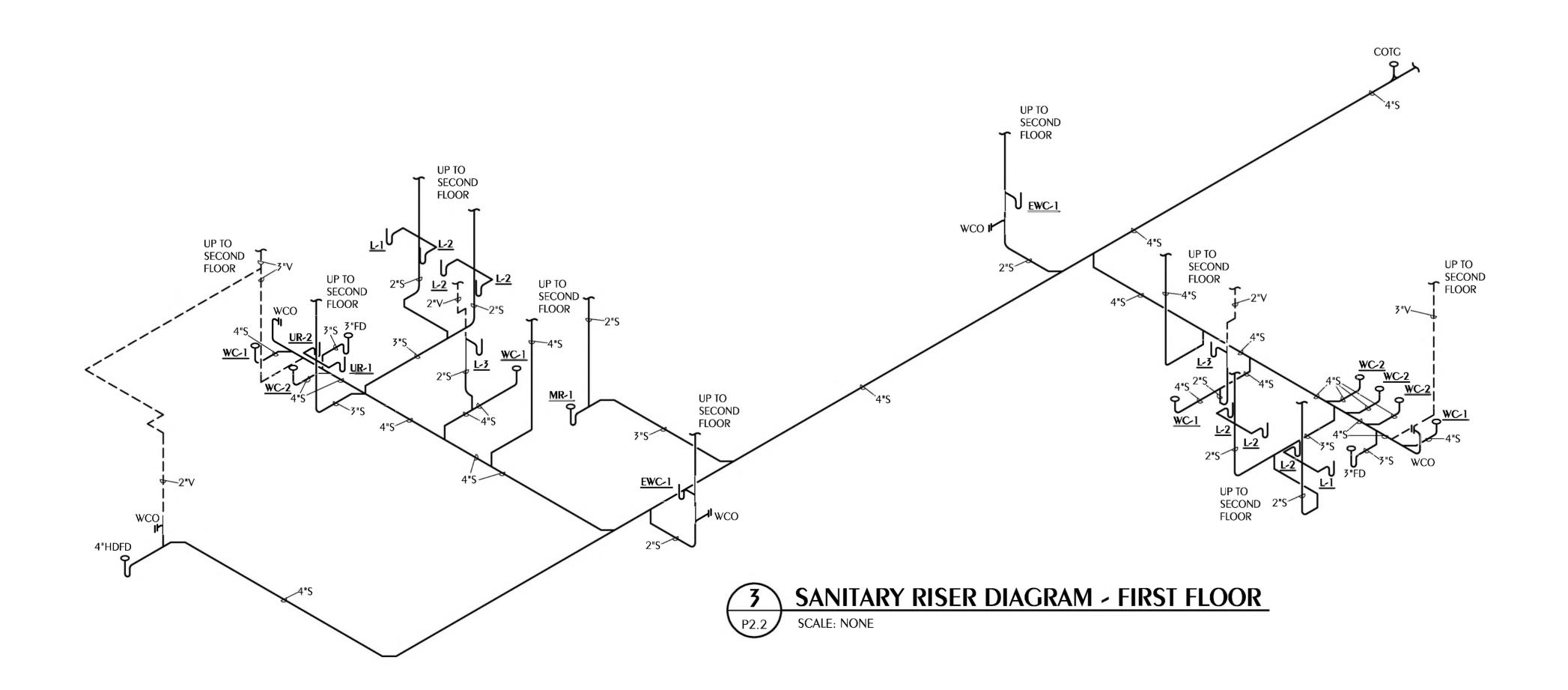
SHEET TITLE:
DOMESTIC WATER RISER DIAGRAMS





SANITARY RISER DIAGRAM - SECOND FLOOR SCALE: NONE

SANITARY RISER DIAGRAM - SECOND FLOOR



NO.	DESCRIPTION	DRAWN	CHECKED
NO.	DESCRIPTION	DRAWN	CHECKED
PH	IASE	DRAWN	CHECKED
SCI	HEMATIC DESIGN		
509	% PROGRESS DOCUMENTS	JDD	KAJ
ca	NSTRUCTION DOCUMENTS	JDD	KAJ
BID	DOCUMENTS	JDD	KAJ



ARCHITECTS Commission Number: 22828



BAY HAVEN CHARTER ACADEMY CLASSROOM ADDITION PANAMA CITY, FLORIDA

SANITARY RISER DIAGRAMS