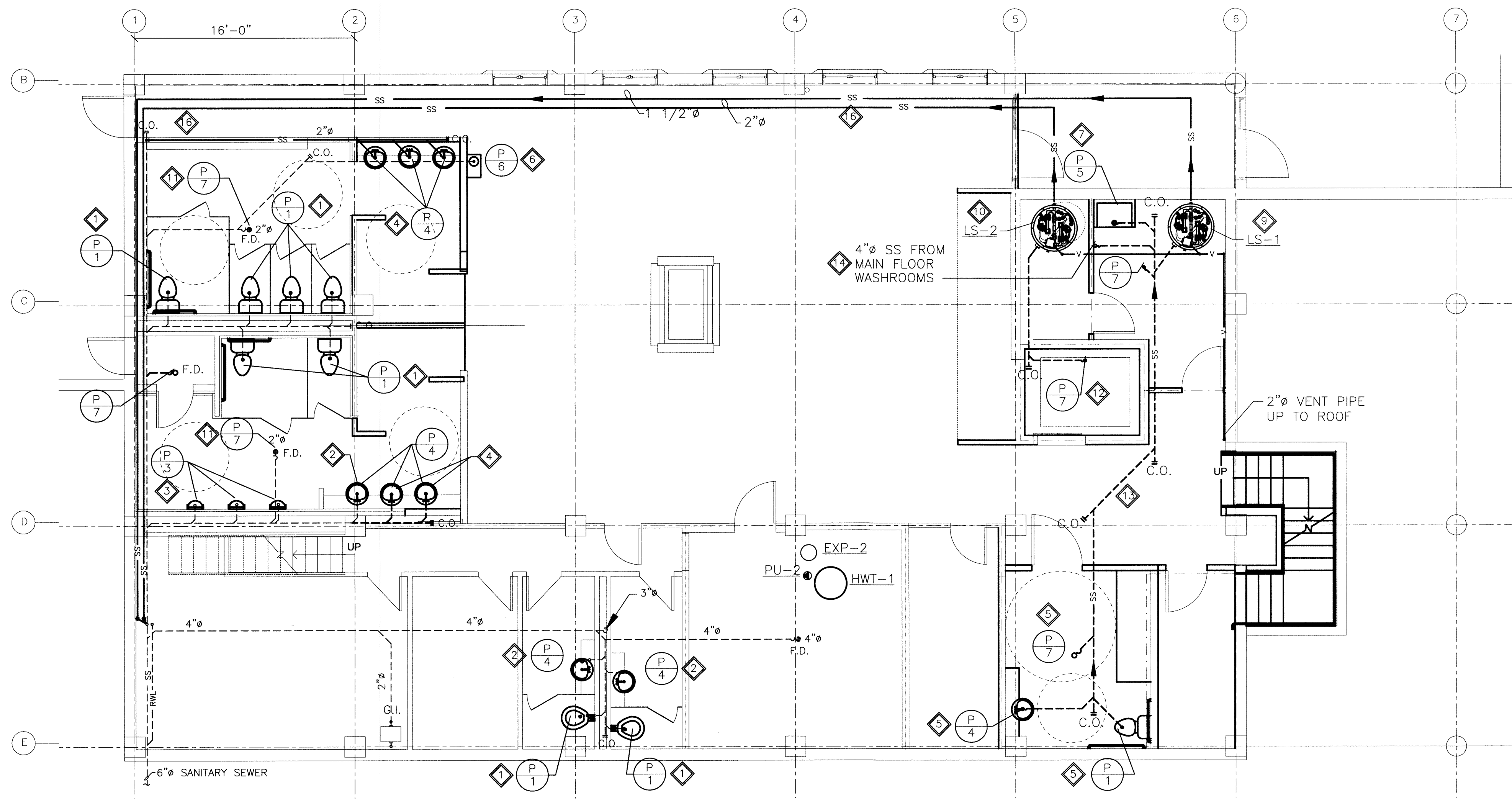
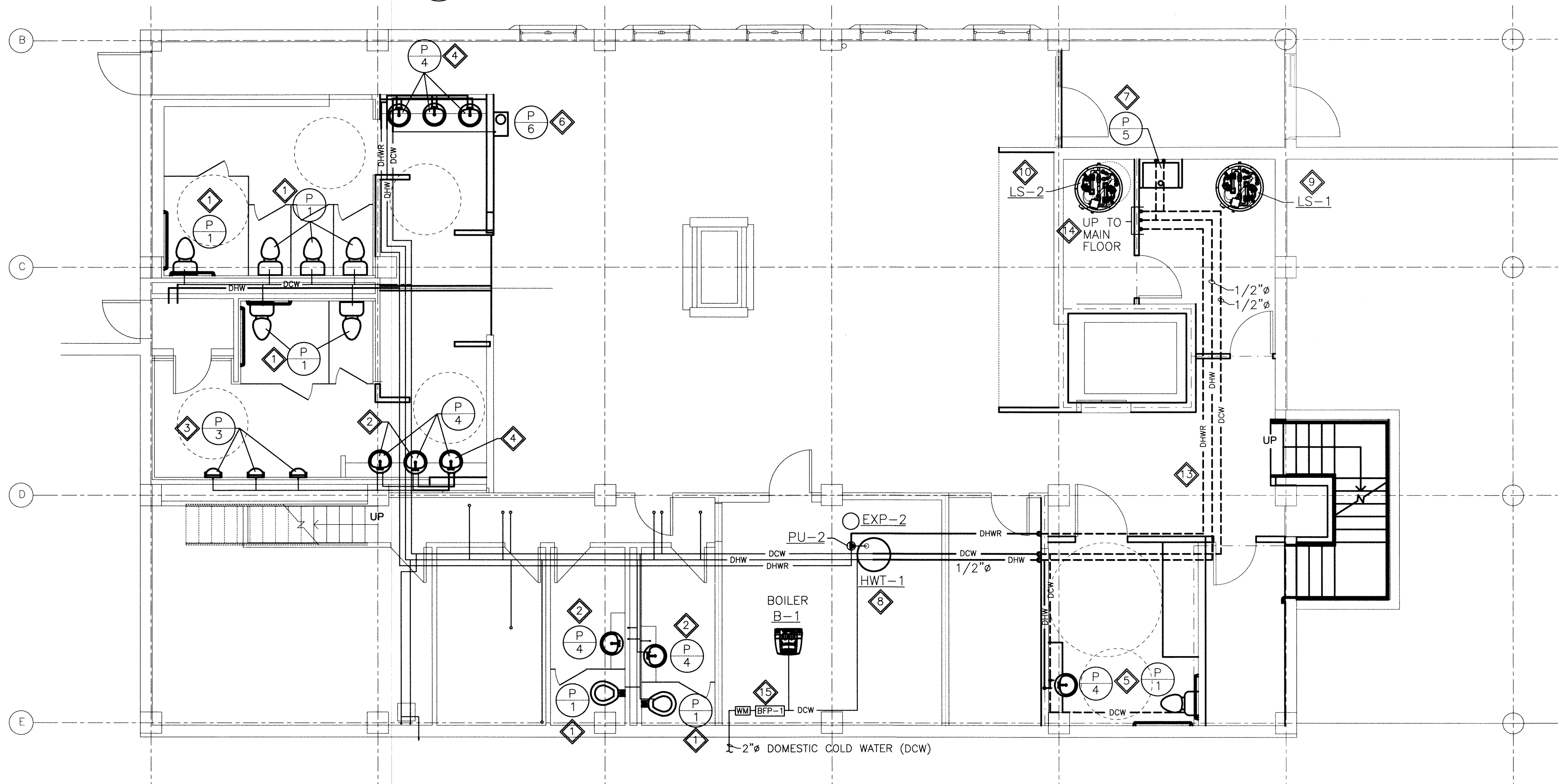


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**1 BASEMENT FLOOR PLAN - NEW SANITARY PIPING**



**2 BASEMENT FLOOR PLAN - NEW DOMESTIC WATER PIPING**

**GENERAL NOTES:**

- CONFORM TO CANADIAN PLUMBING CODE AND ALL LOCAL CODES AND AUTHORITY HAVING JURISDICTION FOR DESIGN, SUPPLY AND INSTALLATION OF PLUMBING AND VENT SYSTEM. VENT CONCEALED INSIDE WALLS ACCORDING TO CODE.
- EQUIPMENT LOCATIONS, DUCT AND PIPE ROUTING INDICATED ON THE DRAWINGS IS APPROXIMATE ONLY. CONFIRM IN THE FIELD. REROUTE DUCTWORK AND PIPING AS REQUIRED TO ELIMINATE FIELD INTERFERENCES, WITH BUILDING STRUCTURES, ELECTRICAL, ETC. CONFIRM CHANGES WITH CONSULTANT. CO-ORDINATE WORK WITH ALL SUBTRADES. WHERE DIMENSIONS ARE INDICATED FOR PIPING, DUCTWORK, DUCT SIZES, EQUIPMENT SIZES, ETC. THESE ARE FOR BIDDING PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING EQUIPMENT AND COMMENCING INSTALLATION WITHOUT EXTRA CHARGES TO THE PROJECT. THE CONTRACTOR IS RESPONSIBLE TO ENSURE ALL EQUIPMENT, DUCTWORK AND PIPING FITS IN THE SPACE AVAILABLE AND TO MAINTAIN THE GENERAL DESIGN INTENT FOR THE SYSTEMS.
- INSULATE DOMESTIC HOT WATER, DOMESTIC COLD WATER AND HOT WATER RETURN PIPING. RUN PIPING IN CEILING SPACE AND DROP DOWN TO FIXTURES INSIDE PLUMBING WALLS WHERE APPLICABLE.
- PROVIDE ALL CUTTING AND PATCHING REQUIRED FOR NEW PIPING. SEAL AND FINISH ALL PENETRATIONS TO MATCH EXISTING.
- PROVIDE TRAP PRIMERS FOR ALL NEW FLOOR DRAINS.
- PROVIDE SHUT-OFF VALVES AT ALL FIXTURES.
- PROVIDE CLEANOUTS AS PER PLUMBING CODE.
- CONFIRM ADEQUATE PIPE SLOPES EXISTS FOR NEW DRAINAGE PIPING.
- CONFORM TO CAN/CSA-B149.1-05 NATURAL GAS AND PROPANE INSTALLATION CODE.
- ALL NEW DOMESTIC WATER PIPING SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS INSULATION C/W ASJ.
- FIRE SEAL ALL PENETRATIONS THROUGH FIRE WALLS AND FLOOR.

**KEY NOTES:**

- REPLACE EXISTING WATER CLOSETS WITH NEW WATER CLOSETS COMPLETE WITH SENSOR FLUSH VALVES. TIE INTO EXISTING DRAINAGE LINES AND DOMESTIC WATER PIPING.
- REPLACE EXISTING LAVATORY SINKS WITH NEW LAVATORY SINKS COMPLETE WITH HANDS FREE SENSOR FAUCETS. TIE INTO EXISTING DRAINAGE LINES AND DOMESTIC WATER PIPING.
- REPLACE EXISTING URINALS WITH NEW URINALS COMPLETE WITH SENSOR FLUSH VALVES. TIE INTO EXISTING DRAINAGE LINES AND DOMESTIC WATER PIPING.
- SUPPLY AND INSTALL NEW LAVATORY SINKS COMPLETE WITH HANDS FREE SENSOR FAUCETS. SUPPLY AND INSTALL NEW DRAINAGE AND DOMESTIC WATER PIPING. CONFIRM ADEQUATE SLOPE EXISTS FOR NEW DRAINAGE PIPING UNDER SLAB. CO-ORDINATE CORING FOR NEW PIPING AND FILLING OF FLOOR WITH STRUCTURAL TRADES.
- SUPPLY AND INSTALL NEW WATER CLOSET COMPLETE WITH SENSOR FLUSH VALVE. SUPPLY AND INSTALL NEW LAVATORY SINK COMPLETE WITH HANDS FREE SENSOR FAUCET. SUPPLY AND INSTALL NEW FLOOR DRAIN. PROVIDE NEW DRAINAGE AND DOMESTIC WATER PIPING.
- REPLACE EXISTING DRINKING FOUNTAIN WITH NEW DRINKING FOUNTAIN. TIE INTO EXISTING DRAINAGE LINE AND DOMESTIC WATER PIPING.
- SUPPLY AND INSTALL NEW JANITOR SINK COMPLETE WITH FAUCET, HOSE AND MOP HANGER. PROVIDE NEW DRAINAGE AND DOMESTIC WATER PIPING.
- SUPPLY AND INSTALL NEW POWER VENTED HOT WATER TANK HWT-1, RECIRCULATION PUMP PU-2 AND EXPANSION TANK EXP-2. TIE INTO EXISTING DOMESTIC WATER PIPING.
- SUPPLY AND INSTALL NEW LIFT STATION LS-1 FOR SANITARY SEWER. PROVIDE SANITARY SEWER PIPING AS INDICATED AND PROVIDE VENT PIPE UP TO ROOF. SEAL ALL ROOF AND FLOOR PENETRATIONS WATER AND AIR TIGHT. REFER TO DETAIL 2 ON DRAWING M12.0.
- SUPPLY AND INSTALL NEW LIFT STATION LS-2 FOR ELEVATOR PIT. PROVIDE SANITARY SEWER PIPING AS INDICATED AND PROVIDE VENT PIPE UP TO ROOF. SEAL ALL ROOF AND FLOOR PENETRATIONS WATER AND AIR TIGHT. REFER TO DETAIL 2 ON DRAWING M12.0.
- REPLACE EXISTING FLOOR DRAIN WITH NEW FLOOR DRAIN. TIE INTO DRAINAGE PIPING.
- SUPPLY AND INSTALL NEW FLOOR DRAIN FOR ELEVATOR PIT. PROVIDE NEW DRAINAGE PIPING. REFER TO DETAIL 2 DRAWING M12.0.
- CO-ORDINATE TRENCHING FOR NEW DRAINAGE AND DOMESTIC WATER PIPING WITH STRUCTURAL TRADES.
- RUN NEW DRAINAGE PIPING AND DOMESTIC WATER LINES UP TO MAIN FLOOR WASHROOMS IN PLUMBING WALL.
- SUPPLY AND INSTALL NEW 2" BACKFLOW PREVENTER BFP-1 ON MAIN DCW LINE AS PER CITY REQUIREMENTS.
- PIPING ABOVE SLAB TO BE CONCEALED BY ARCHITECTURAL ENCLOSURE (BY OTHERS). CO-ORDINATE WITH STRUCTURAL TRADES TO PROVIDE ACCESS DOORS AT ALL VALVES AND CLEANOUTS.

SCALE VERIFIED BY: *DMW*

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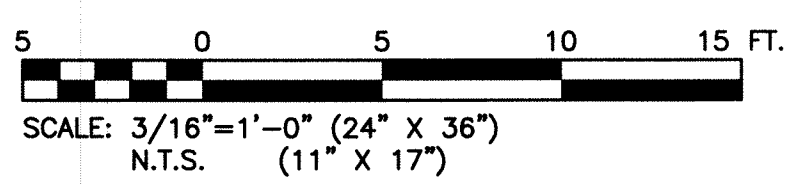
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REVISED / ISSUED / PLOTTED	DATE
Rev. 0 - ISSUED FOR TENDER	NOVEMBER 21/2011

**LEGEND:**

	EXISTING EQUIPMENT OR PIPING TO BE REMOVED
	EXISTING EQUIPMENT OR PIPING TO REMAIN
	PIPING UNDER SLAB
	SS - SANITARY SEWER
	DHW - DOMESTIC HOT WATER SUPPLY
	DCW - DOMESTIC COLD WATER SUPPLY
	DHWR - DOMESTIC HOT WATER RETURN
	V - VENT PIPING
	P 1 - FLOOR MOUNTED BARRIER FREE WATER CLOSET
	P 2 - WALL HUNG BARRIER FREE WATER CLOSET
	P 3 - URINAL
	P 4 - BARRIER FREE LAVATORY
	P 5 - JANITOR'S SINK
	P 6 - BARRIER FREE DRINKING FOUNTAIN
	P 7 - FLOOR DRAIN
	PU - PUMP (PU - )
	F.D. - FLOOR DRAIN
	LS - LIFT STATION
	G.I. - GREASE INTERCEPTOR
	HWT - HOT WATER TANK
	PU - PUMP
	H-C - HOSE BIBB
	WM - WATER METER
	BFP - BACKFLOW PREVENTER



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architecture • interior design • graphic design

**PEGUIS PAVILION**  
UPGRADES & ENTRY ADDITION  
BIDDING #913-2011

**BASEMENT FLOOR PLAN**  
SANITARY SEWER PIPING AND  
DOMESTIC WATER PIPING - NEW

**KGS GROUP** CONSULTING ENGINEERS

consultant

**APECA**  
Certificate of Authorization  
KGS Group  
No. 245

PROVINCE OF MANITOBA  
**R.B. BODNAR**  
REGISTERED PROFESSIONAL ENGINEER

scale: 3/16"=1'-0"  
date: August 15, 2011  
sheet no. **M3.0**

drawn by: VJH  
checked by: RBB  
project no. 2011026