

EQUIPMENT SCHEDULE:

The design is based on the equipment listed here and noted in the Equipment Schedule Tables. Refer to Section 21 05 01 Article 1.24 ALTERNATE MATERIALS & EQUIPMENT for responsibilities when utilizing equipment that differs from the basis of design but still meets the design intent and the process to apply to use equipment that alters the design intent.

BLACK LAKE - EXISTING POLICE BUILDING:

**DOMESTIC WATER BOOSTER PUMP PACKAGE (DBP-1):** Taco duplex variable speed domestic water booster pump package, or approved equal, 70 GPM system total @ 139 ft boost pressure. 2x stainless steel vertical multi stage pumps, 35 GPM @ 139 ft each. 15 HP, 1994 RPM 575/60/3 motors. Fluid flow is based on system operation with one pump failed. (50%-50% pump sequence) 2x integrated fequency drives with fused disconnects. Taco Integral drive controller with single source Input power connection. The pump system controller shall be integrated with the variable frequency drive (Integrated Drive Controller) as one unit. Lead/Lag control on two pumps, no flow shutdown and end of the curve protection. Dual DC-link chokes (5% AC line reactor), supplied loose for mounting & wiring by others. Package to include 304 stainless steel headers, SS isolation valves and discharge (non slam) check valves. Common base-plate mounting and assembly. Pump package to be complete with 6" stainless steel header and flexible connections on the 62mm piping from the water meter and the 62mm piping out to the system. The pump package is to be complete with pressure transducer, low suction pressure switch, high/adequate pressure switch, two level float switches (one for minimum capacity and one for full capapctly), auto-dialer alarm module and remote exterior panel showing float levels. Package to be maximum of 60" in height. See specification section issued with this proposed change for further information on the sequence of controls and equipment. Pumps to be mounted on 50-mm thick concrete pad(s).

**DOMESTIC WATER TANKS (Typical of 2):** Engineered Pipe Group 900mm (36") DR17 tank, fully pressure rated to 135 psi. Each tank to be complete with 2-2" outlets with threaded connections. Tanks to come with 50 mm x 900mm x 9,000 mm (2" x 36" x 30") OD half shell kils of fire rated insulation complete with galvanized steel cover to be installed at the job site by the contractor. Tanks to come in two pieces for installation purposes.

**AIR RELEASE/ VACUUM VALVES (AR-1):** Flowmatic Model 6540, 1" Comboair air release/vacuum valves with dual orifice. Valve to meet C-152 ANSI/AWWA standard. Body to be cast iron with stainless steel trim and stainless steel float. Air release to be installed in the top of both tanks.

**FIRE PROTECTION DOUBLE CHECK VALVE ASSEMBLY:** Watts Model 757 line size testable double check valve assemble complete with OSY shut-off valves.

BLACK LAKE AND STONY RAPIDS - HOUSING UNITS:

**DOMESTIC HOT WATER HEATER (TYPE WH-4):** Bradford White: Model LE240S3-3, commercial electric water heater. Unit to be 240V/60/1 phase, with two 4,500 Watt element, non-simultaneous operation. Storage Capacity to be 151 liters (40 U.S. gallon). Recovery to be 68 liters (18 U.S. gallon) first hour delivery at 55 deg.C (100 deg.F) temperature rise. Unit to be supplied with factory installed temperature and pressure relief valve and automatic thermostat. Unit to be installed with drain pan piped to floor drain.

**ELECTRIC FAN FORCED HEATER:** Dimplex commercial, wall/ceiling recessed fan forced heater, front panel constructed of 20 gauge steel, white polyester epoxy powder coat painted finish, nickel chromium resistant wire heating element within a steel sheath and spiral steel fins, totally enclosed and factory lubricated motor with a black anodized 5 blade mixed flow aluminum fan. Unit to be complete with factory wired and installed 24V transformer for remote low voltage thermostat control; provide wall mounted thermostat matched to unit..

**TYPE FF-1 and TYPE FF-2:** Model RFI840D21-W, 4,000 Watts (13,648 BTU), 75 l/s (160 CFM), 240V/60/1 phase.

**FURNACE (TYPE F-1):** Broan Nortron Model 21ECM18, ECM series electric up-flow furnace, unit housing shall be 1,016mm H x 510mm W x 510mm D (40"H x 20"W x 20"D), blower assembly shall have a centrifugal-type blower wheel and a permanently lubricated motor, CSA certified. Unit shall be rated at 18 kW (61,473 BTU) heating capacity, 26 deg.C. (47 deg.F.) temperature rise. Furnace to provide 479 l/s at 5.1mm W.G. (1,016 CFM at 0.5" W.G.) maximum heating airflow, 538 l/s at 12.7mm W.G. (1,139 CFM at 0.5" W.G.) maximum cooling airflow. Furnace installation to be complete with external filter rack complete with 25mm (1") pleated filter. Unit to be complete with modulating 7 day programmable furnace thermostat. Electrical: 240V/60/1 phase, ECM motor 249 Watts (1/3 HP), Amps including motor: 76.

**HEAT RECOVERY VENTILATOR (TYPE HRV-1):** Lifebreath Model RNC5-ES, Core: cross-flow heat recovery aluminum. Motors and Blowers: each airstream has an independent motorized impeller with multiple fan speed operations 59 l/s at 100 Pa (125 CFM at 0.4"). Filters: washable air filters in exhaust and supply air streams. Mounting: threaded insert at corners of the cabinet designed to accepts "S" hooks and hanging straps supplied with unit. Defrost: recirculating damper defrost system. Case: 20 gauge prepainted galvanized steel for corrosion resistance, insulated to prevent exterior condensation. Drain connections: two 12mm (1/2") OD to be piped to floor drain. Balancing ports located on unit, Installer Selectable High Speed Settings: adjustable DIP switches located on circuit board. Connection Duct sizes: four 125mm (5") oval collars, balancing dampers are located on all collars. Weight: 23kg (51 lbs). Controls: Model 99-DX-1 lifestyle RNC Digital Control, and two (2) 99-DET01 Lifestyle 20/40/60 minute Timer located in washrooms. Electrical: 120V/60/1 phase, Watts at low speed = 48, Watts at high speed = 110. Amp Rating = 1.25.

**RANGE HOOD (TYPE RHD):** Broan QS2 Series, Model QS230WWN, under cabinet hood, 762mm (30") wide, vertical ducted discharge, complete with micromesh grease filter, dual halogen bulbs (PAR20) to be supplied by Mechanical Contractor, back draft damper and three-speed electronic control. Air flow 142 l/s (300 cfm), 0.9 sones (norm) 4.5 sones (high), 120V/60/1 phase. Finish: white.

**LOUVRE (TYPE 2):** Price Model NJE2, stationary extruded 51mm (2") deep aluminum J-style blades positioned at 30 degrees, extruded aluminum frame and supports, all welded construction, integral perimeter caulking stop, 12mm x 12mm (1/2" x 1/2") 16 gauge expanded aluminum bird screen without frame, finish to be baked enamel with colour as selected by Architect.

DIFFUSERS AND GRILLES:

**TYPE S-4:** E.H. Price, Model 520D/F/L/A/B12, louvered supply grille c/w steel damper, surface mounted, front blades parallel to long dimension, countersunk screwholes, white powder coat finish.

**TYPE E-2:** E.H. Price, Model 530D/F/L/A/B12, louvered exhaust grille c/w steel damper, surface mounted, front blades parallel to long dimension, countersunk screwholes, white powder coat finish.

**TYPE R-2:** E.H. Price, Model 80/TB/B12, eggcrate face return, t-bar lay-in, white powder coat finish.

**WALL HUNG FIRE EXTINGUISHER:** 4.5 kg (10 lb) ABC dry chemical fire extinguisher with 4-A: 60-B:C rating c/w wall bracket.

STONY RAPIDS - GARAGE:

**WATER METER:** New water meter to approval of Stoney Rapids Municipal Authority complete with bypass valve.

**FLOOR SINK (FS-1-G):** Watts Model FS-783NH-FC-175-5-9, 12"(305) square, 6" (152mm) deep 14ga type 304 stainless steel sanitary floor sink, hinged stainless steel top grate with 19mm (3/4")grate, sediment bucket, flange with weepholes and flashing clamp, and no hub (standard) outlet. Unit to be complete with flange with weeping holes and flashing clamp.

**OIL INTERCEPTOR (OIL-1-G):** Zurn Greenturtle Model OMC 50, fibreglass reinforced plastic (FRP) with polyvinyl chloride piping, drop pipe with tee opening, baffle to separate into two chambers with flow distributor, riser pipe in the second chamber for discharge, 2 vent ports, 2 cleanouts complete with extensions to the slab and one 610 diameter accessway complete with extension to floor slab with frame and cover and anti-bouyancy slab. Tanks to be designed for h20 traffic loading. Total wet volume: 50 gallon. Max Oil Capacity: 18 Gallons. Maximum solids capacity: 17 gallons. Tank Size: 1,547 mm (62") long x 813 mm (32") wide x 610 mm (24") tall interceptor. Dry weight of tank = 79.4 kg (175 lbs).

**DOMESTIC WATER SERVICE DOUBLE CHECK VALVE ASSEMBLY:** Watts Series 957 lead free line size reduced pressure testable double check valve assembly complete with quarter turn shut-off valves and bronze wye strainer.

**DOMESTIC HOT WATER HEATER (WH-1-G):** Bradford White: Model LE240S3-3, commercial electric water heater. Unit to be 208V/60/1 phase, with two 4,500 Watt element, non-simultaneous operation. Storage Capacity to be 151 liters (40 U.S. gallon). Recovery to be 68 liters (18 U.S. gallon) first hour delivery at 55 deg.C (100 deg.F) temperature rise. Unit to be supplied with factory installed temperature and pressure relief valve and automatic thermostat. Unit to be installed with drain pan piped to floor drain.

**DOMESTIC HOT WATER EXPANSION TANK (ET-1-G):** Taco Model PAX30, suitable for domestic hot water, 30 litre (8 gallon) total volume, 19 litre (5.0 gallon) acceptance volume, 356 mm (14") diameter x 648 mm (25-1/2") height. Unit to be mounted suspended from structure. Installation to be complete with isolation valve and drain valve piped to floor drain.

**ELECTRIC UNIT HEATER:** Dimplex commercial, ceiling mount industrial electric unit heater, polyester/epoxy powder coat finish almond color, 18 gauge die formed steel cabinet, five-way individual adjustable 20 gauge convex profile air directing louvers, metal tubular sheath fused with spiral steel fins, nickel chromium wire encased in solidly packed magnesium oxide insulation, heavy duty motor continuous operation totally enclosed thermally protected with permanently lubricated ball bearings, ceiling hanging bracket included. Unit to be complete with factory wired and installed 24V transformer for remote low voltage thermostat control; provide wall mounted thermostat matched to unit. **UH-1-G and UH-2-G:** Model EUH10B84CT, 10,000 Watts (34,120 BTU), 283 l/s (600 CFM), 208V/60/3 phase.

**ELECTRIC FAN FORCED HEATER:** Dimplex commercial, wall/ceiling recessed fan forced heater, front panel constructed of 20 gauge steel, white polyester epoxy powder coat painted finish, nickel chromium resistant wire heating element within a steel sheath and spiral steel fins, totally enclosed and factory lubricated motor with a black anodized 5 blade mixed flow aluminum fan. Unit to be complete with factory wired and installed 24V transformer for remote low voltage thermostat control; provide wall mounted thermostat matched to unit.. **FF-1-G, FF-2-G and FF-3-G:** Model RFI830D31-W, 2,250 Watts ( 7,680 BTU), 75 l/s (160 CFM), 208V/60/1 phase.

**ELECTRIC HEATING COIL (HC-1-G):** Thermolec, Model CACNT0P6B1A1DXRF, slip-in type electric heating coil, Electrical Data: 9.0 kW (30.69 MBH), 208V/60/3 phase, 25.02 Amps, 142 l/s (300 CFM), complete with Magnetic Contactor, Auto Cut-out, Manual Cut-out, Factory Mounted S.C.R. Modulating Controls, Duct Mounted 0-10V Thermostat, Duct Sensor, Disconnect Switch. Size: 356mmW x 356mmH x 127mmD (14"W x 14"H x 5"D).

**ELECTRIC HEATING COIL (HC-2-G and HC-3-G):** Thermolec, Model C2CACNT0P1B1E3A1DXRF, slip-in type electric heating coil, Electrical Data: 22.5 kW (76.73 MBH), 208V/60/3 phase, 62.55 Amps, 354 l/s (750 CFM), complete with Magnetic Contactor, Auto Cut-out, Manual Cut-out, Factory Mounted S.C.R. Modulating Controls, Duct Mounted 0-10V Thermostat, Duct Sensor, Disconnect Switch. Size: 356mmW x 356mmH x 127mmD (14"W x 14"H x 5"D).

**HEAT RECOVERY VENTILATOR (HRV-1-G):** Lifebreath Model 350DCS. Core: two modular (two section) cross-flow heat recovery aluminum. Motors: two PCS, 5 speed double shafted, 120 VAC, 3.15 A motors (6.3 A total on high speed) with 1/10 HP at 1625 RPM, total 610 watts on high speed MCA: 7.9, MOP: 15. Blowers: centrifugal-type rated at 530 cfm (250 l/s) free air delivery, each air stream has two centrifugal blowers driven by two PCS motors. Filters: washable air filters in exhaust and supply air streams. Defrost: recirculating damper defrost system. Mounting: unit to be set on support brackets hung by threaded rod-type apparatus. Case: 20 gauge prepainted galvanized steel for corrosion resistance, insulated with foil faced insulation duct liner where required to prevent exterior condensation. Drain connections: one 12mm (1/2") OD to be piped to floor drain. Connection Duct sizes: four 356mm x 200mm (14" x 8"). Weight: 70kg (160 lbs). Controls: Model 99-DX-1 lifestyle RNC Digital Control, and two (2) 99-DET01 Lifestyle 20/40/60 minute Timer located in washroom & storage room. Electrical: 120V/60/1 phase, Watts at low speed = 187, Watts at high speed = 610.

**EXHAUST FAN (EF-1-G and EF-1-G):** Greenheck Model CSP cabinet fan. Housings to be lined with 25mm (1") thick acoustic insulation. Motor to be mounted on resilient elastic grommets. Fan shall have forward curved centrifugal wheel AMCA rated for air and sound performance. Unit shall be complete with canvas duct connections, backdraft dampers and discharge caps with birdscreen. Suspend unit from structure with spring isolation hangers. Model CSP-A1050, 354 l/s (750cfm) cfm airflow at 125 Pa (0.5") static pressure, 1095 RPM, 3.1 Sones. Motor: 377 Watts, 6.65 Amps, 120V/60/1 phase, starter to be supplied by Electrical. Unit to be controlled by CO Monitor. Unit to be complete with solid state speed switch mounted on fan for air balancing (this is not a disconnect).

**MOTORIZED DAMPERS:** Tamco Series 9000 BF, thermally broken extruded aluminum dampers. Damper frame shall be no less than 4" deep and insulated with polystyrene on all four sides. Entire frame shall be thermally broken. Blades shall be extruded aluminum less than 8" width, internally insulated with expanded polyurethane foam, thermally broken, and mounted in opposed blade action. Blade and frame seals to be extruded silicone secured in an integral slot. Dampers to be rated to operate in temperatures between -72 deg.F and 185 deg.F. Pressure drop of dampers, when fully open, to not exceed 0.03" at 1000 fpm. Dampers to be flanged to duct and installed in strict accordance with manufacturer's installation guidelines. Intermediate or tubular steel structural support is required for all dampers that consist of two or more sections in either height or width or both. Low voltage actuators to be supplied and installed by Mechanical Contractor.

**LOUVRE (TYPE 1):** Price Model DE635, stationary extruded 152mm (6") deep aluminum drainable blades positioned at 35 degrees, extruded aluminum frame and supports, all welded construction, integral perimeter caulking stop, 12mm x 12mm (1/2" x 1/2") 16 gauge expanded aluminum bird screen without frame, finish to be baked enamel with colour as selected by Architect.

DIFFUSERS AND GRILLES:

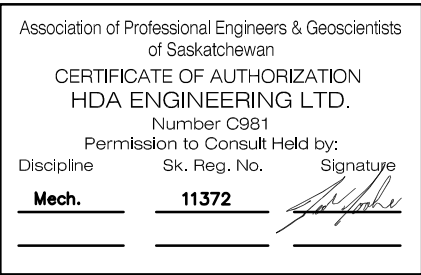
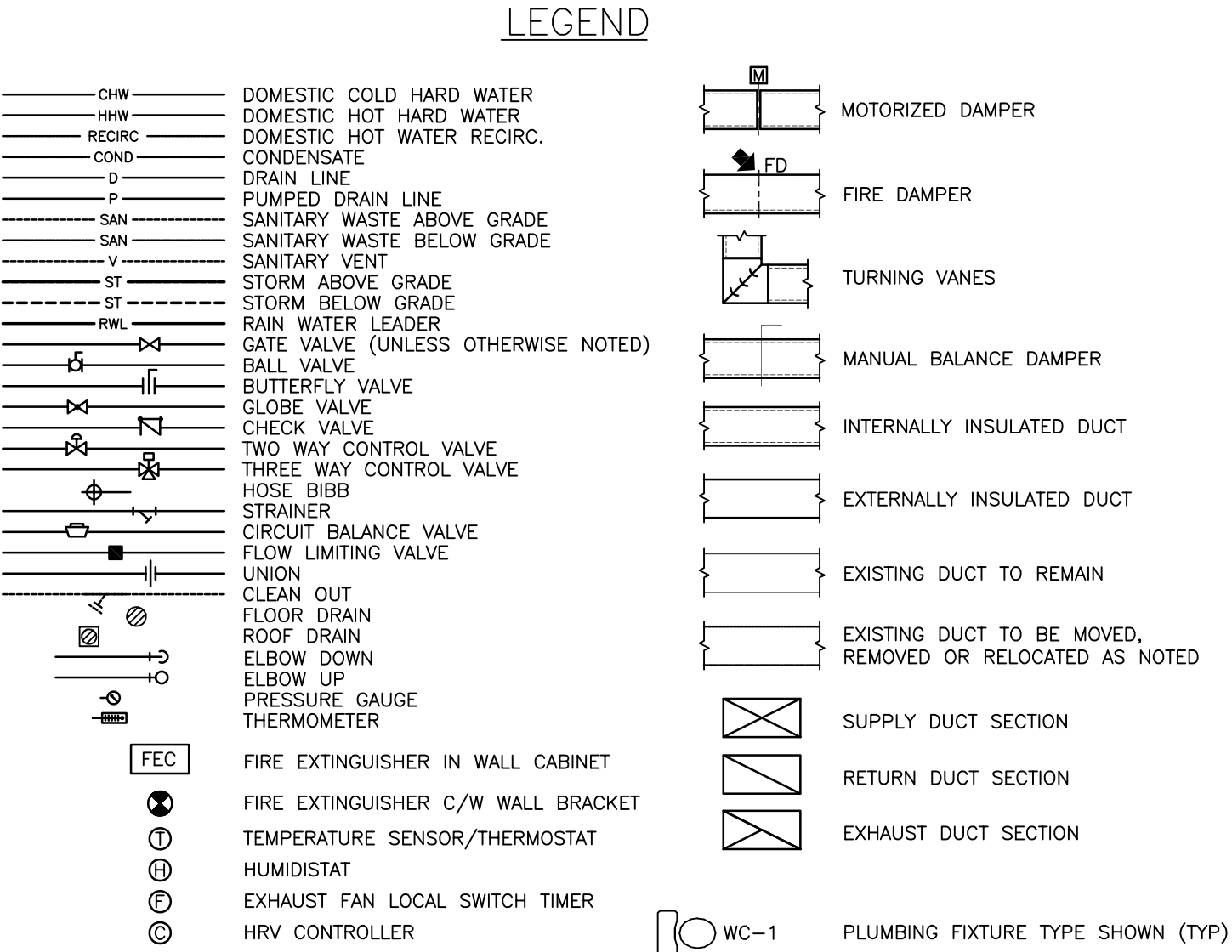
**S-1-G:** E.H. Price, Model 520D/F/L/A/B12, louvered supply grille c/w steel damper, surface mounted, front blades parallel to long dimension, countersunk screwholes, white powder coat finish.

**E-1-G:** E.H. Price, Model 80/F/A/B12, eggcrate face return, surface mounted, countersunk screwholes, white powder coat finish.

**E-2-G:** E.H. Price, Model 510D/F/L/A/B12, louvered exhaust grille complete with steel damper, duct mounted, front blades parallel to long dimension, countersunk screwholes, white powder coat finish.

**WALL HUNG FIRE EXTINGUISHER:** 4.5 kg (10 lb) ABC dry chemical fire extinguisher with 4-A: 60-B:C rating c/w wall bracket.

**GAS DETECTORS:** Armstrong, AMC-1A-D1 single zone gas monitor complete with one AMC-1222 Series combination carbon monoxide sensors and nitrogen dioxide sensors. Monitor to have a minimum coverage area of 50' radius and to be complete with low, high, and fail indicators, two 10 Amp relays, selectable time delay, audible alarm with silencer, and AMC-1A-WH wiring harness to provide 24VAC output. Electrical: 120V/60/1 phase.



DO NOT SCALE DRAWINGS

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Revision/Revision	Description/Description	Date/Date
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Project title/Titre du projet

NEW EMPLOYEE HOUSING AND  
NEW GARAGE  
BLACK LAKE AND STONY RAPIDS,  
SASKATCHEWAN

Approved by/Approuve par

Designed by/Concept par

Drawn by/Dessine par

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie

Client/client

Drawing title/Titre du dessin

EQUIPMENT SCHEDULE  
DETAILS AND SCHEMATICS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
S-03-2014A	M0.1	0



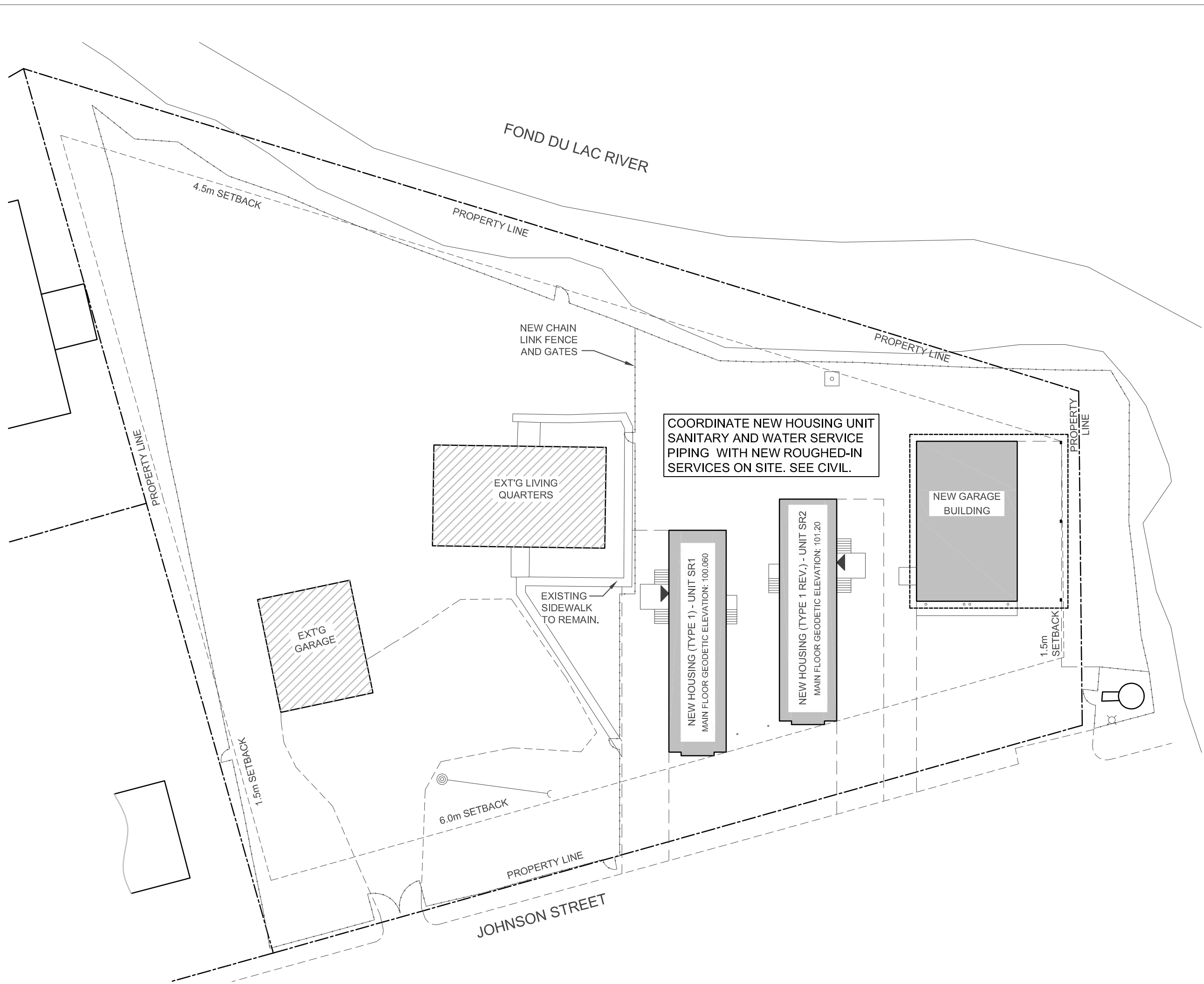
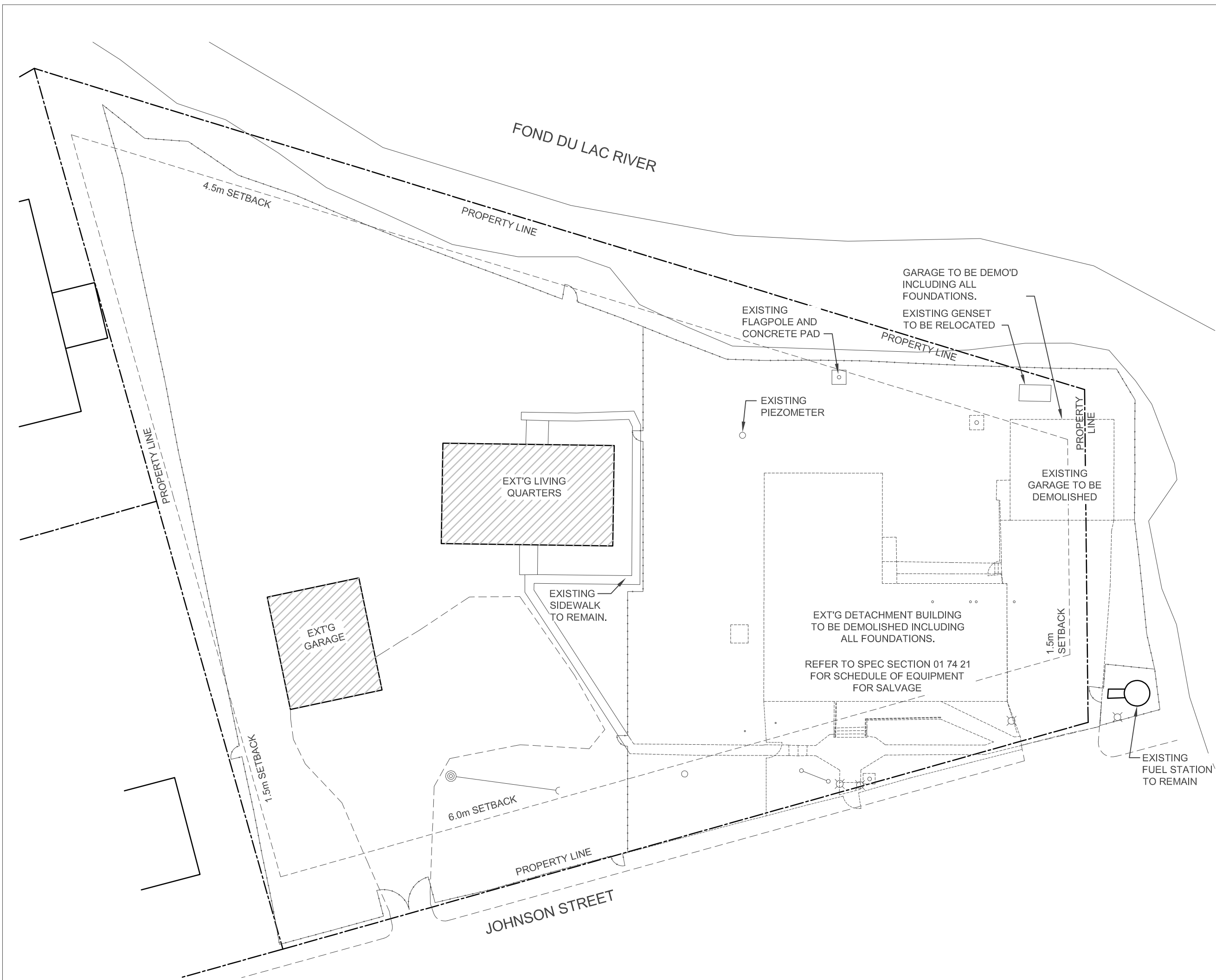


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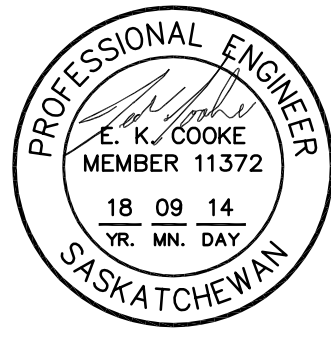


**SITE PLAN - DEMOLITION**  
1:300

**SITE PLAN - CONSTRUCTION**  
1:300

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BLACK LAKE AND STONY RAPIDS,  
SASKATCHEWAN**

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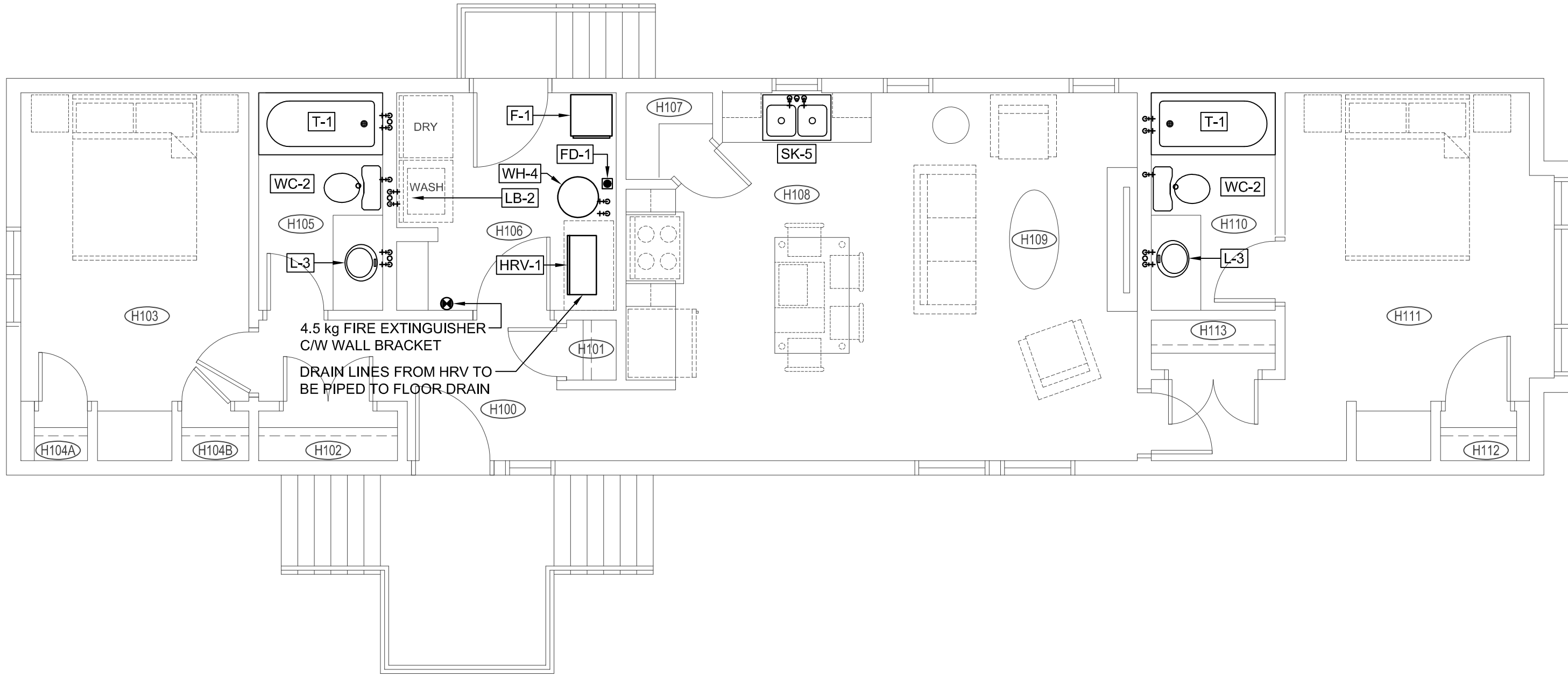
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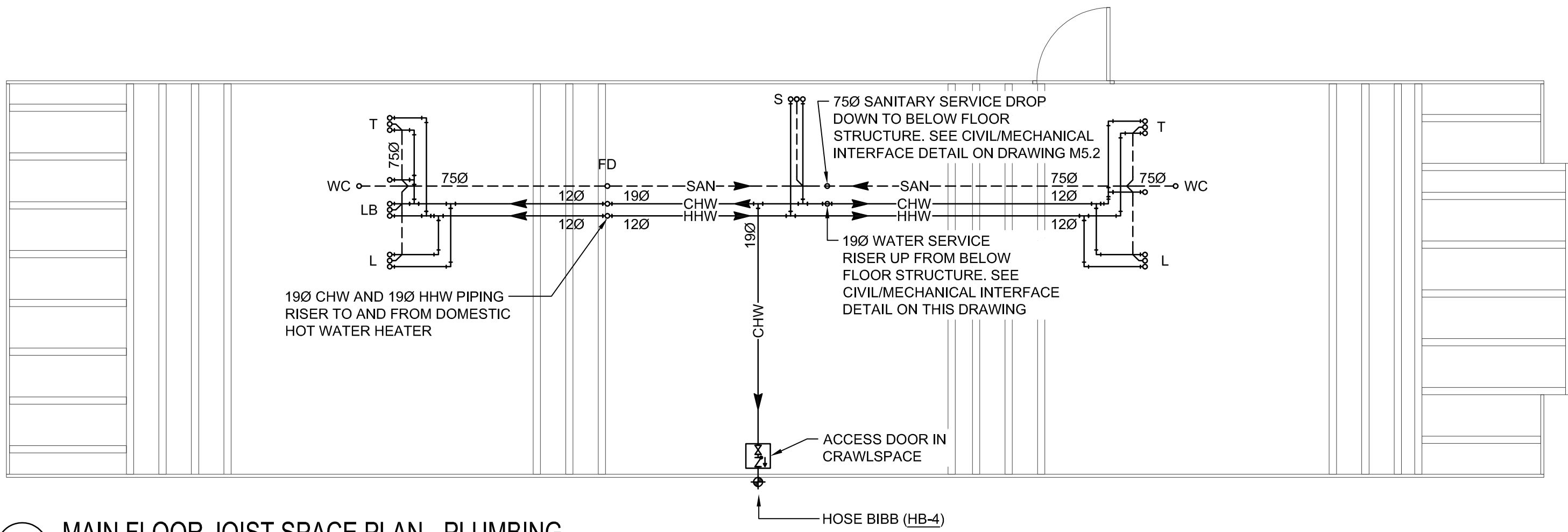
**STONY RAPIDS  
SITE PLAN**

Project No./No. du projet <b>S-03-2014A</b>	Sheet/ Feuille <b>M1.2</b>	Revision no./ La Révision no. <b>0</b>
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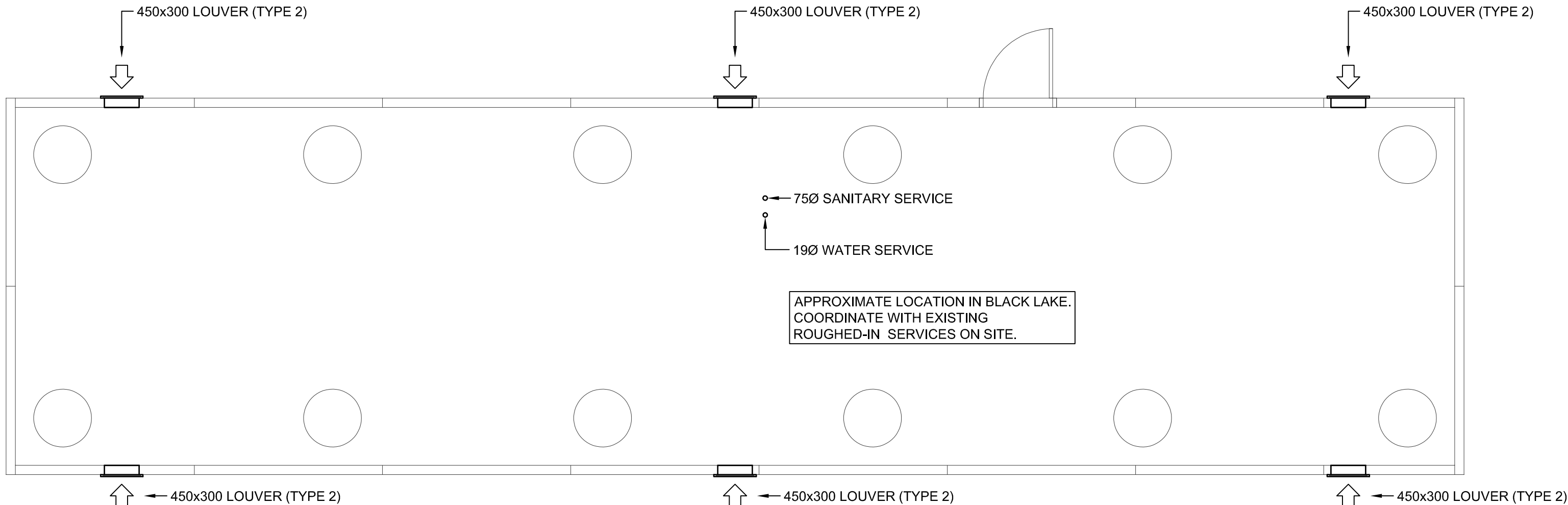




1 MAIN FLOOR PLAN - PLUMBING  
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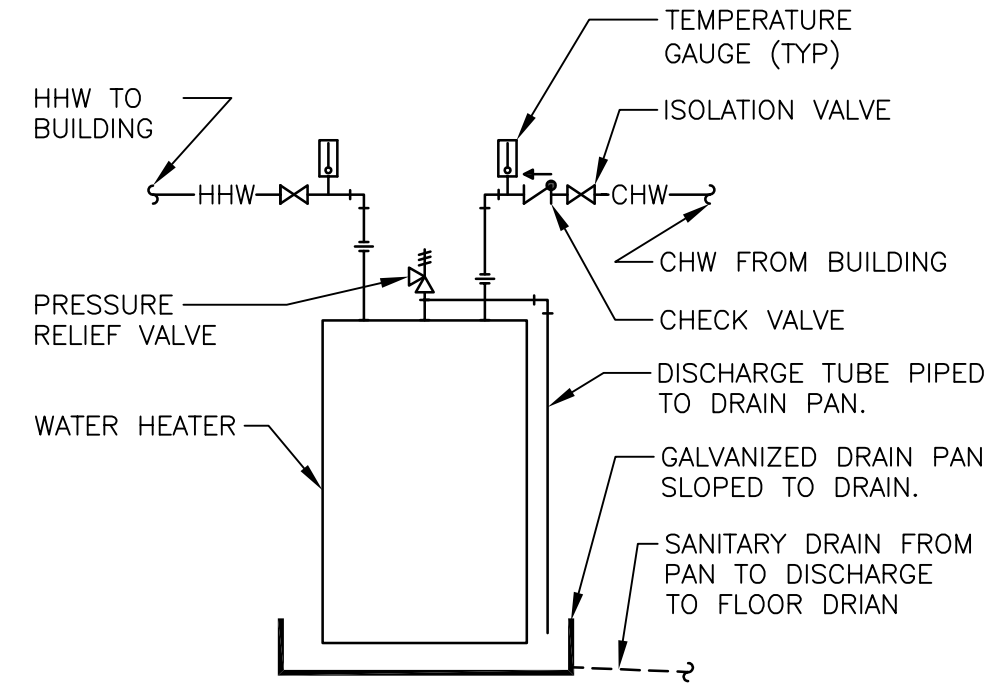
2 MAIN FLOOR JOIST SPACE PLAN - PLUMBING  
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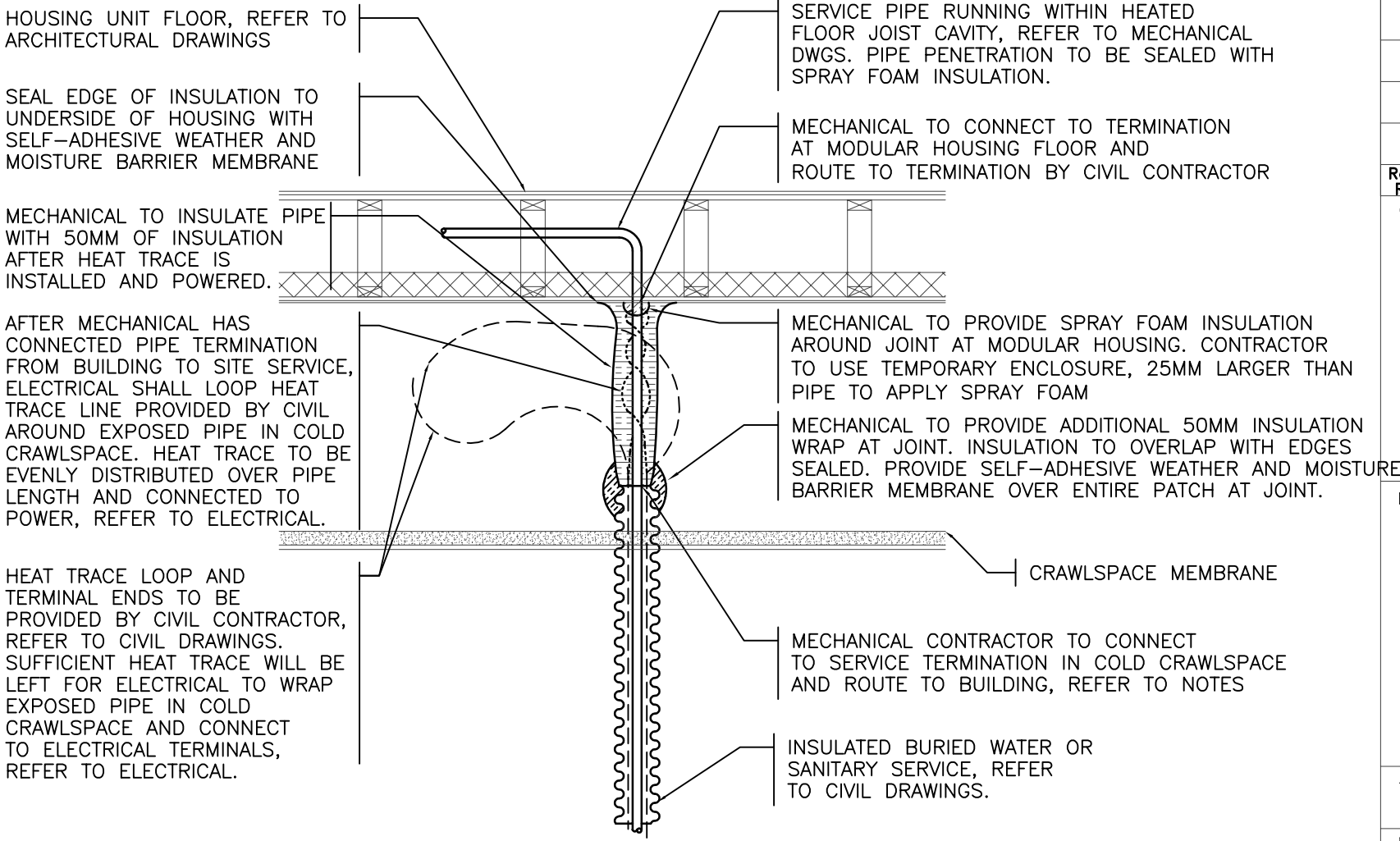
3 CRAWLSPACE PLAN - VENTILATION  
1:50

PLUMBING GENERAL NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- COORDINATE ALL WORK WITH OTHER TRADES AND SITE CONDITIONS.
- RUN WATER PIPING AS HIGH AS POSSIBLE TO PROVIDE MAXIMUM CLEARANCE IN ALL AREAS.
- ALL PLUMBING BRANCH LINES ARE 12Ø UNLESS NOTED OTHERWISE.
- BOILER ROOM SANITARY PIPING AND EXPOSED PIPING SHALL BE CAST IRON.
- ALL SHOWER DRAINS AND FLOOR DRAINS TO BE 75Ø.
- VENTING AS PER LOCAL CODES AND REQUIREMENTS.
- MAKE ALL CONNECTIONS FOR EQUIPMENT SUPPLIED BY OTHERS. REFER TO DETAILS FOR CONNECTIONS.



WATER HEATER W/O  
RECIRC DETAIL



HOUSING CIVIL/MECHANICAL INTERFACE DETAIL n.t.s.

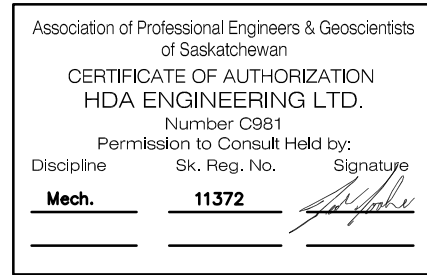
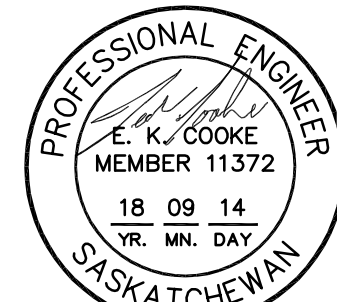
NOTES:

MECHANICAL AND CIVIL CONTRACTORS SHALL COORDINATE SERVICE CONNECTION POINTS. SERVICE CONNECTIONS TO BE AS FOLLOWS:

WATER SERVICE TO EACH HOUSING UNIT: SDR-9 POLYPIPE, FUSION WELDED, SIZE AS INDICATED ON DRAWINGS. MECHANICAL CONTRACTOR TO PROVIDE TERMINATION COUPLER TO CIVIL CONTRACTOR FOR CONNECTION OF PIPE WITHIN THE BUILDING TO BURIED PIPE. COUPLER TO BE FUSION WELD ON BURIED SIDE, MATCHING SYSTEM UTILIZED ON SITE AND FITTING STYLE MATCHED TO CHOSEN EXPOSED PIPE INSTALLATION MATERIAL.

SANITARY SERVICE: SDR-28 PVC, MECHANICAL JOINT, SIZE AS INDICATED ON DRAWINGS. MECHANICAL CONTRACTOR MAY UTILIZE CLAMPED FLEXIBLE COUPLING TO JOIN BURIED PIPE TERMINATION TO BUILDING PIPE. BUILDING SERVICE CLEANOUT TO BE LOCATED OUTSIDE OF FIRE RATED COVER. NOTE THAT DRAWINGS ARE BASED ON MAINTAINING SUFFICIENT ELEVATION TO ENTER TOP OF ARCHITECTURAL ENCLOSURE. IF PIPE ELEVATION DROPS ON SITE TO COORDINATE WITH OTHER TRADES, IT IS PERMISSIBLE TO ENTER ENCLOSURE FROM SIDE PROVIDE ACCESS DOOR LOCATION IS NOT AFFECTED.

SELF-ADHESIVE WEATHER AND MOISTURE BARRIER MEMBRANE: TO CONSIST OF AN SBS RUBBERIZED ASPHALT COMPOUND, INTEGRALLY LAMINATED TO A GLASS SCRIM REINFORCED ALUMINUM FOIL. TO BE SPECIFICALLY DESIGNED TO BE SELF-ADHERED TO A PREPARED SUBSTRATE PROVIDING A WEATHER BARRIER. BASIS OF DESIGN IS BAKOR FOILSKINS®.



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Client/client		

Project title/Titre du projet  
**NEW EMPLOYEE HOUSING AND NEW GARAGE BLACK LAKE AND STONY RAPIDS, SASKATCHEWAN**

Approved by/Approuve par  
Designed by/Concept par  
Drawn by/Dessine par  
Project Manager/Administrateur de Projets  
Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'Ingénierie  
Client/client

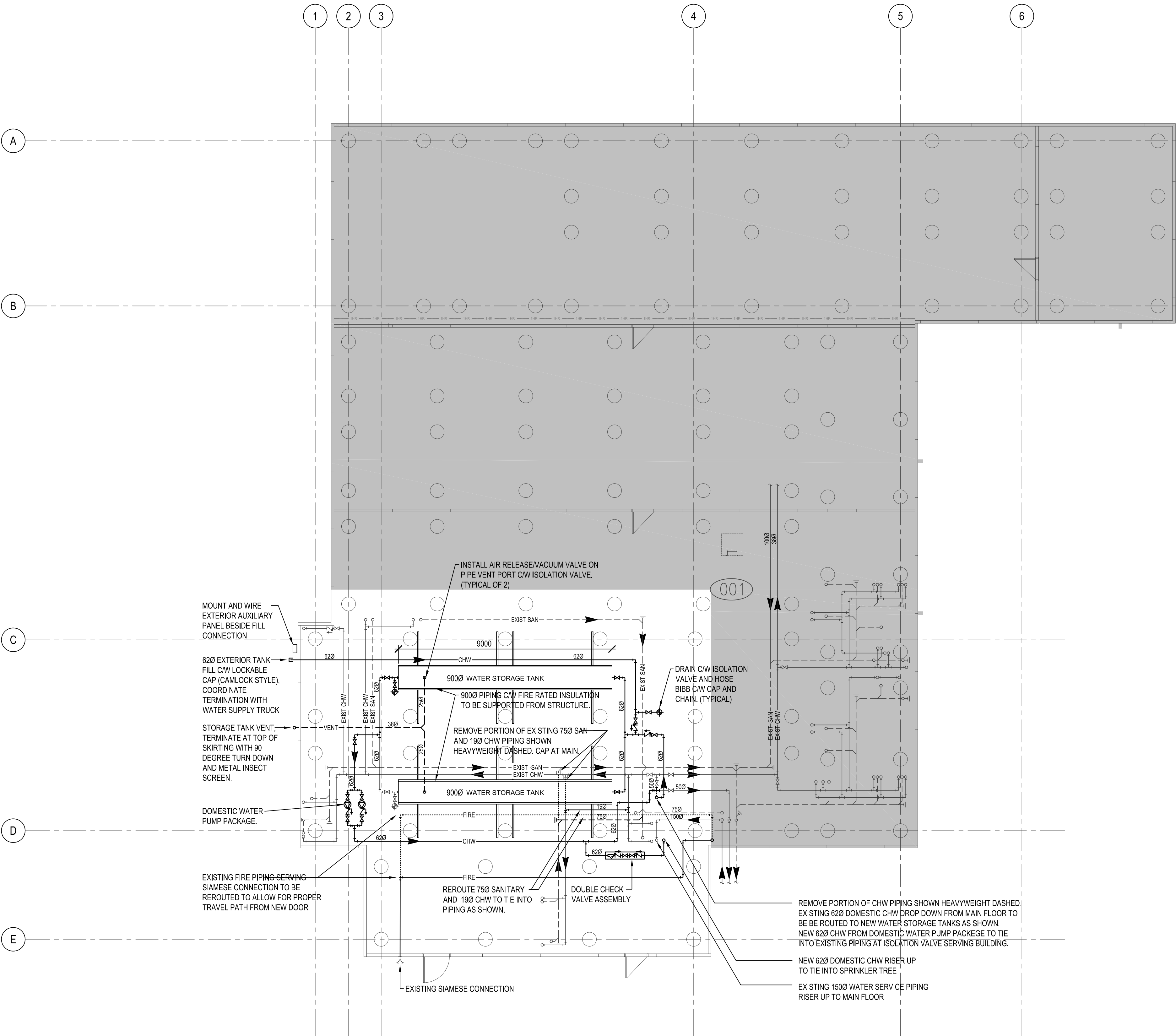
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**HOUSING UNIT PLUMBING**

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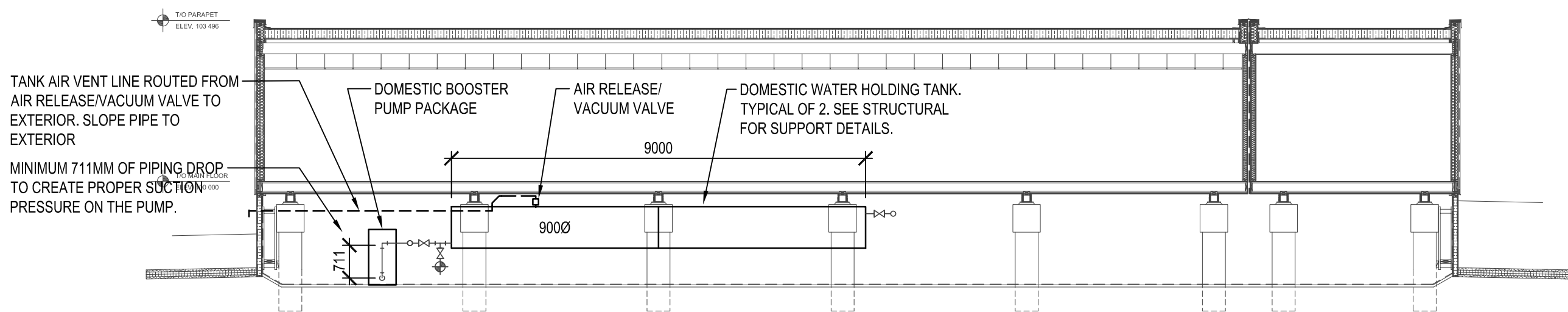




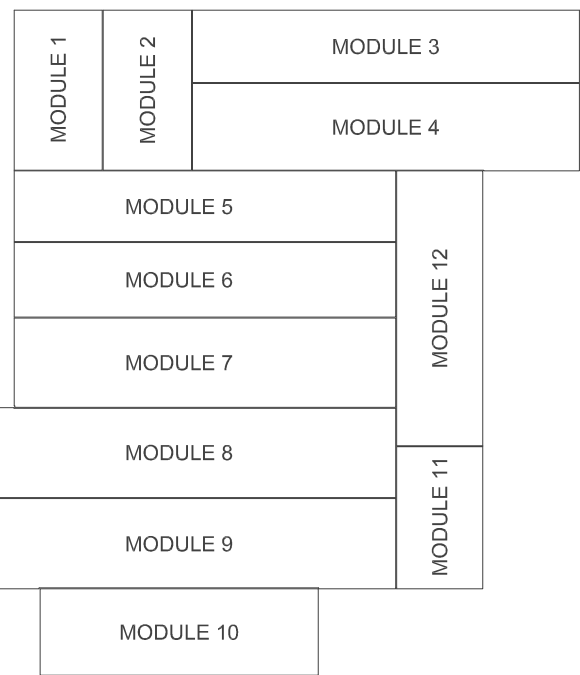




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CRAWLSPACE PLAN – PLUMBING  
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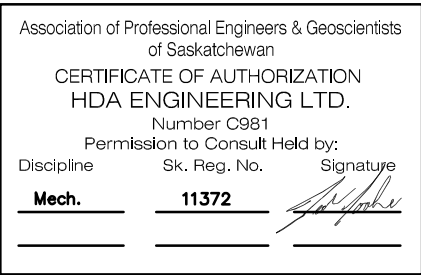
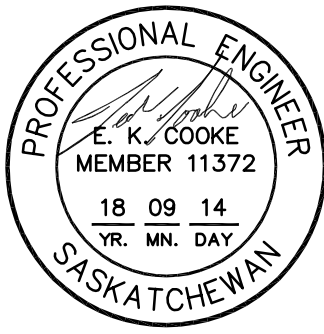


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CRAWLSPACE SECTION  
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3  
KEY PLAN  
N.T.S.

- PLUMBING GENERAL NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
  - COORDINATE ALL WORK WITH OTHER TRADES AND SITE CONDITIONS.
  - RUN WATER PIPING AS HIGH AS POSSIBLE TO PROVIDE MAXIMUM CLEARANCE IN ALL AREAS.
  - ALL PLUMBING BRANCH LINES ARE 12Ø UNLESS NOTED OTHERWISE.
  - BOILER ROOM SANITARY PIPING AND EXPOSED PIPING SHALL BE CAST IRON.
  - ALL SHOWER DRAINS AND FLOOR DRAINS TO BE 75Ø.
  - VENTING AS PER LOCAL CODES AND REQUIREMENTS.
  - MAKE ALL CONNECTIONS FOR EQUIPMENT SUPPLIED BY OTHERS. REFER TO DETAILS FOR CONNECTIONS.



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SASKATCHEWAN**

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Designed by/Concept par

Drawn by/Dessiné par

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie

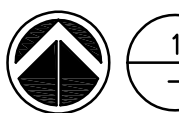
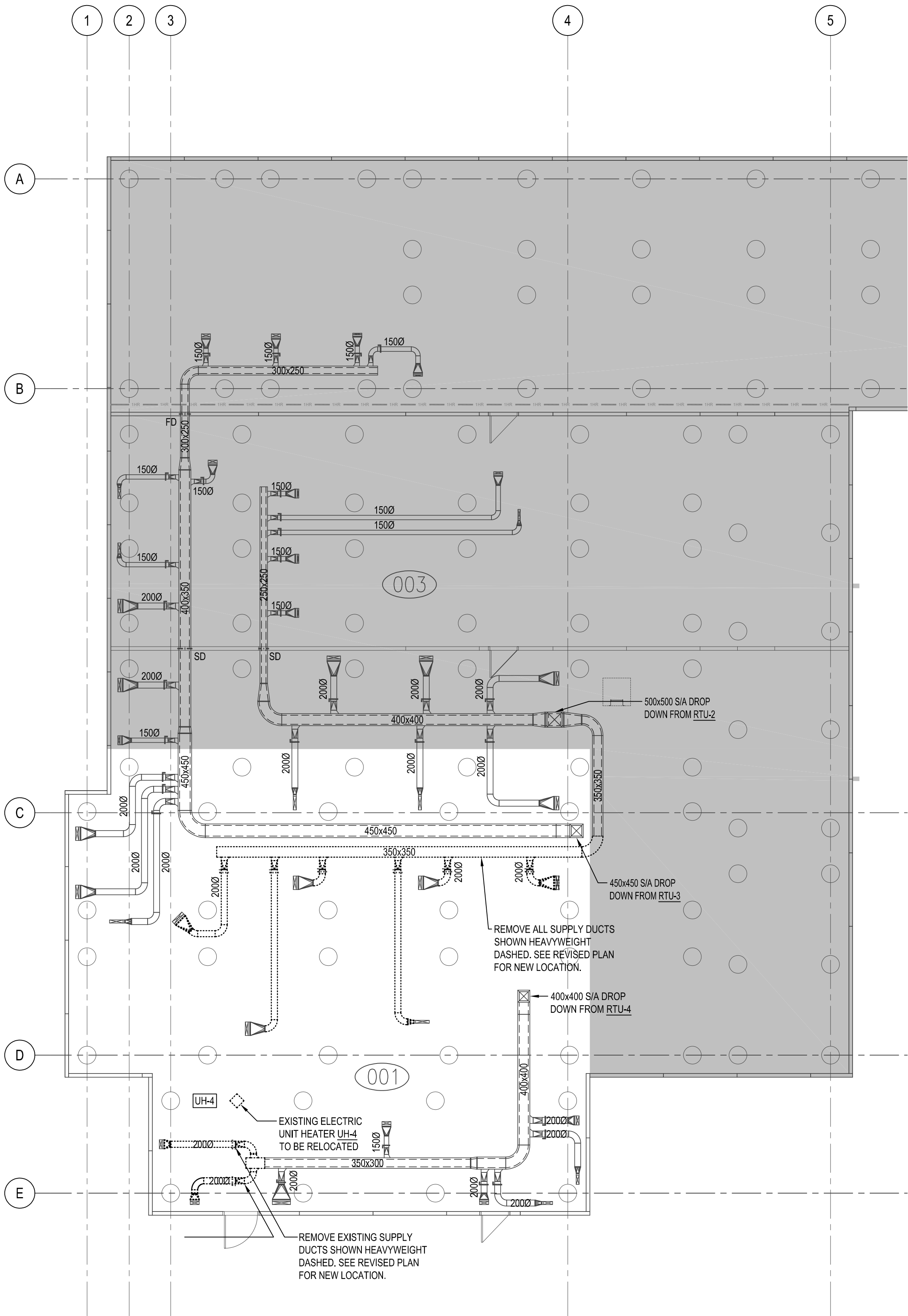
Client/client

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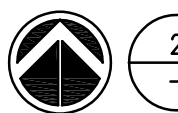
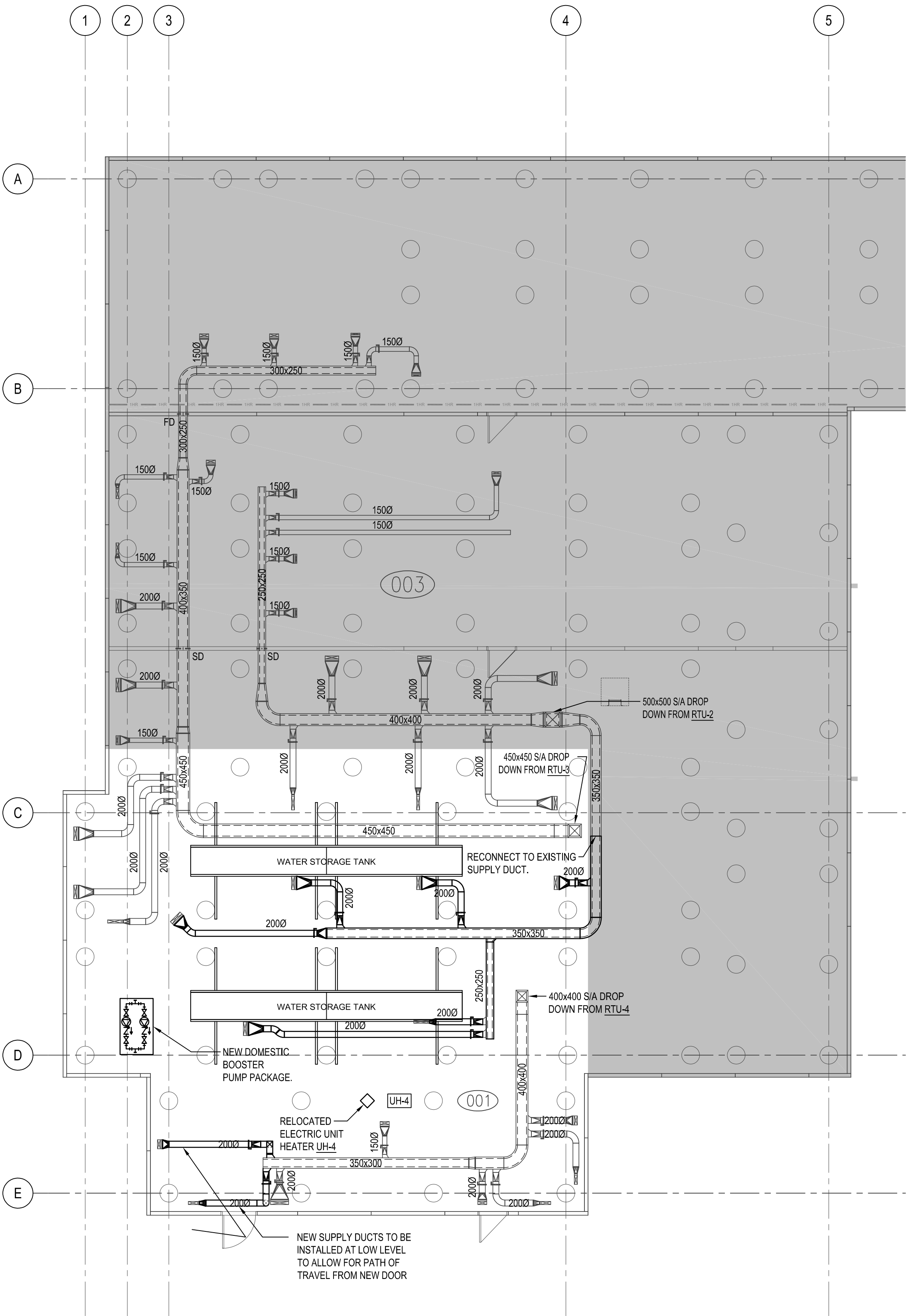
**BLACK LAKE  
EXISTING POLICE BUILDING  
CRAWLSPACE PLAN  
PLUMBING**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
S-03-2014A	M3.1	0





1 CRAWLSPACE PLAN – VENTILATION (DEMO)  
1:100



2 CRAWLSPACE PLAN – VENTILATION (REVISED)  
1:100

DO NOT SCALE DRAWINGS

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0	ISSUED FOR TENDER	18/09/14
Revision/	Description/Description	Date/Date
Revision		
Client/client		

Project title/Titre du projet

**NEW EMPLOYEE HOUSING AND  
NEW GARAGE  
BLACK LAKE AND STONY RAPIDS,  
SASKATCHEWAN**

Approved by/Approuvé par

Designed by/Concept par

Drawn by/Dessiné par

Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie

Client/client

Drawing title/Titre du dessin

**BLACK LAKE  
EXISTING POLICE BUILDING  
CRAWLSPACE PLAN  
VENTILATION**

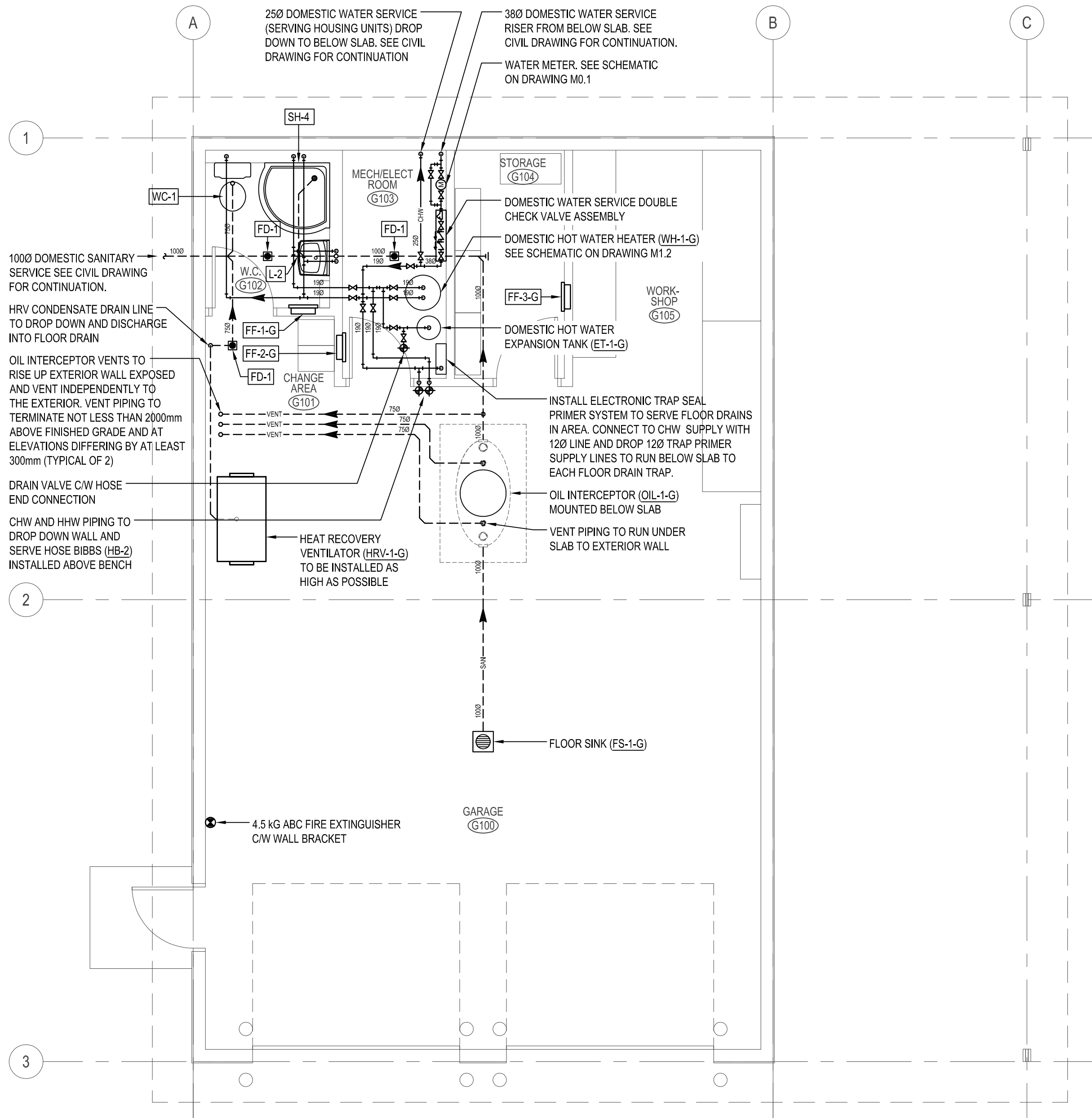
Project No./No. du  
projet  
**S-03-2014A**

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**M3.2**

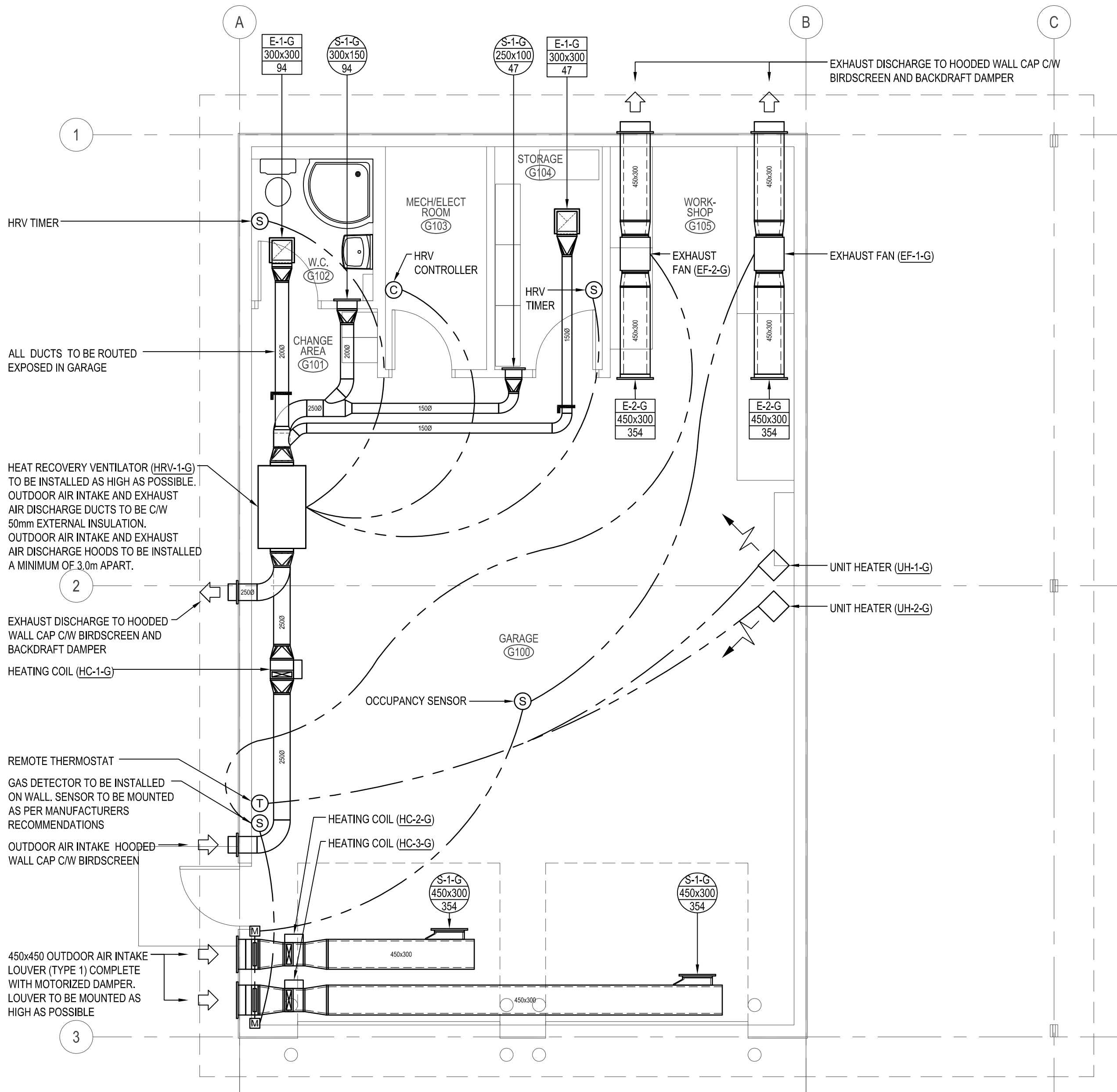
Revision no./  
La Révision  
no.  
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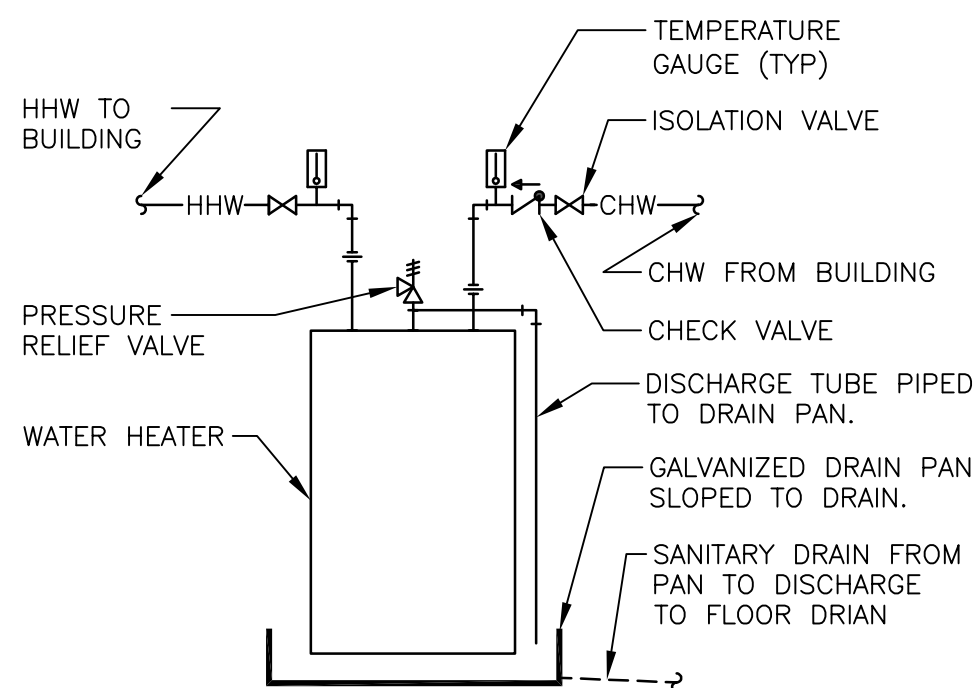




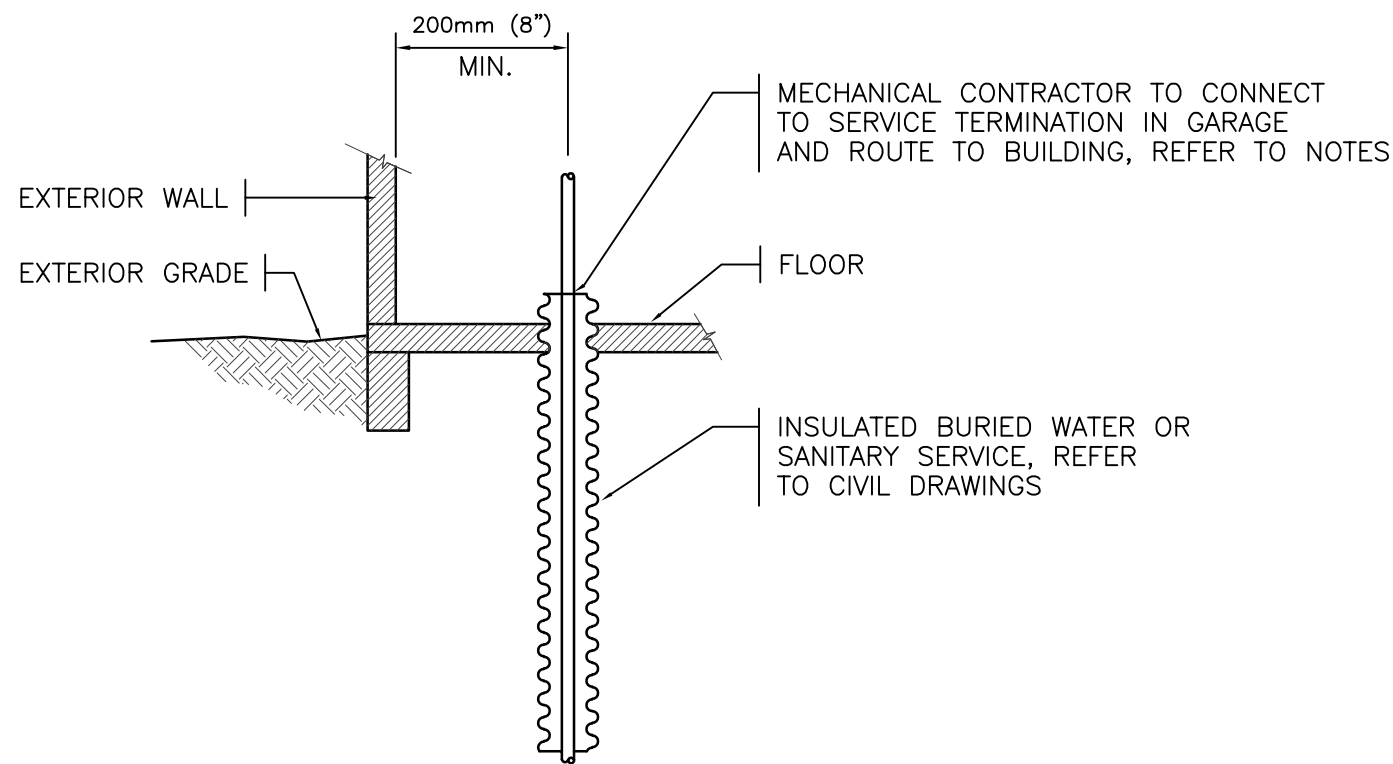
1  
1:50  
MAIN FLOOR PLAN - PLUMBING



2  
1:50  
MAIN FLOOR PLAN - VENTILATION



WATER HEATER W/O  
RECIRC DETAIL



GARAGE CIVIL/MECHANICAL  
INTERFACE DETAIL n.t.s.

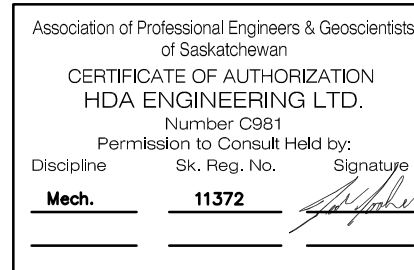
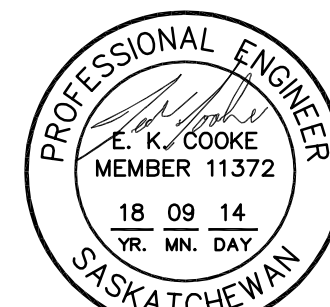
NOTES:

MECHANICAL AND CIVIL CONTRACTORS SHALL COORDINATE SERVICE CONNECTION POINTS. SERVICE CONNECTIONS TO BE AS FOLLOWS:

**WATER SERVICE TO GARAGE:** DR-11 POLYPIPE, SIZE AS INDICATED ON DRAWINGS, TERMINATED BY CIVIL CONTRACTOR WITH FLANGE. MECHANICAL CONTRACTOR TO ROUTE FROM FLANGE TO BUILDING, COORDINATE FLANGE CONNECTION WITH CIVIL.

**DOMESTIC WATER MAIN TO HOUSING UNITS:** SDR-9 POLYPIPE, FUSION WELDED, SIZE AS INDICATED ON DRAWINGS. MECHANICAL CONTRACTOR TO PROVIDE TERMINATION COUPLER TO CIVIL CONTRACTOR FOR CONNECTION OF PIPE WITHIN THE BUILDING TO BURIED PIPE. COUPLER TO BE FUSION WELD ON BURIED SIDE, MATCHING SYSTEM UTILIZED ON SITE AND FITTING STYLE MATCHED TO CHOSEN EXPOSED PIPE INSTALLATION MATERIAL.

**SANITARY SERVICE:** SDR-28 PVC, MECHANICAL JOINT, SIZE AS INDICATED ON DRAWINGS. MECHANICAL CONTRACTOR MAY UTILIZE CLAMPED FLEXIBLE COUPLING TO JOIN BURIED PIPE TERMINATION TO BUILDING PIPE. BUILDING SERVICE CLEANOUT TO BE LOCATED OUTSIDE OF FIRE RATED COVER. NOTE THAT DRAWINGS ARE BASED ON MAINTAINING SUFFICIENT ELEVATION TO ENTER TOP OF ARCHITECTURAL ENCLOSURE. IF PIPE ELEVATION DROPS ON SITE TO COORDINATE WITH OTHER TRADES, IT IS PERMISSIBLE TO ENTER ENCLOSURE FROM SIDE PROVIDE ACCESS DOOR LOCATION IS NOT AFFECTED.



DO NOT SCALE DRAWINGS

5		
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**NEW EMPLOYEE HOUSING AND  
NEW GARAGE  
BLACK LAKE AND STONY RAPIDS,  
SASKATCHEWAN**

Approved by/Approuve par

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Project Manager/Administrateur de Projets

Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'Ingénierie

Client/client

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**STONY RAPIDS  
GARAGE MAIN FLOOR PLAN  
PLUMBING AND VENTILATION**

Project No./No. du  
projet  
**S-03-2014A**

Sheet/Feuille  
**M4.1**

Revision no./  
La Révision  
no.  
**0**