



1 MAIN FLOOR PLAN - PLUMBING
SCALE: 1:100mm (24"x36")

GENERAL NOTES:

- CONFORM TO NATIONAL PLUMBING CODE OF CANADA AND ALL LOCAL CODES AND AUTHORITY HAVING JURISDICTION FOR DESIGN, SUPPLY AND INSTALLATION OF PLUMBING AND VENT SYSTEM.
- EQUIPMENT LOCATIONS AND PIPE ROUTING INDICATED ON THE DRAWINGS IS APPROXIMATE ONLY. CONFIRM IN THE FIELD. REROUTE PIPING AS REQUIRED TO ELIMINATE FIELD INTERFERENCES, WITH BUILDING STRUCTURES, ELECTRICAL, ETC. CONFIRM CHANGES WITH DEPARTMENTAL REPRESENTATIVE. CO-ORDINATE WORK WITH ALL SUBTRADES. WHERE DIMENSIONS ARE INDICATED FOR PIPING 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.
- PROVIDE NEW DRAINS AS SHOWN. SLOPE NEW DRAINAGE PIPING AT 1%.
- INSULATE DOMESTIC HOT WATER (DHW), DOMESTIC HOT WATER RETURN AND DOMESTIC COLD WATER (DCW) PIPING.
- PROVIDE ALL WALL PENETRATIONS. PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE FIRE SEALED.
- PROVIDE SHUT-OFF VALVES AT ALL FIXTURES, WATER TANKS AND WATER HAMMER ARRESTERS AT ENDS OF ALL PIPE RUNS.
- REFER TO DWG M04 FOR DOMESTIC WATER PIPING SCHEMATIC.
- PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS.

KEY NOTES:

- CONNECT NEW DRAIN LINE TO EXISTING. LOCATE EXISTING DRAIN LINE IN FIELD.
- PROVIDE 750 LINE UP TO FLOOR DRAINS (TYP.)
- PROVIDE 750 LINE UP TO TRENCH (TYP.)
- PROVIDE NEW EMERGENCY SHOWER (ES-5) AND EYEWASH (ES-4) STATIONS. PROVIDE THERMOSTATIC MIXING VALVES IN WALL MOUNTED ENCLOSURES FOR EACH FIXTURE. REFER TO SECTIONS ON DRAWING M03. INSTALL FIXTURES ACCORDING TO ANSI Z358.1 AND MANUFACTURERS INSTRUCTIONS. MAINTAIN 400mm CLEARANCE FROM EMERGENCY SHOWERHEAD TO OBSTRUCTIONS.
- RUN PLUMBING VENT LINE UP AT LOCATION SHOWN.
- PROVIDE NEW DOMESTIC COLD WATER LINE FROM EXISTING PIPING IN CEILING SPACE IN ROOM 111. RUN WATER LINE TO EXISTING UTILITY SINK IN GREENHOUSE AND EXISTING AND NEW EMERGENCY SHOWER AND EYEWASH STATIONS.
- EXTEND EXISTING DOMESTIC HOT WATER AND DOMESTIC HOT WATER RETURN LINES TO NEW EMERGENCY SHOWER AND EYEWASH STATIONS. DISCONNECT AND REMOVE EXISTING DOMESTIC HOT WATER RETURN LINE TO UTILITY SINK.
- DISCONNECT AND REMOVE EXISTING DOMESTIC COLD WATER LINE FEEDING EXISTING UTILITY SINK AND EMERGENCY FIXTURES TO CONNECTION TO HEADER. RE-LABEL REMAINING HEADER IRRIGATION WATER. REFER TO SPECIFICATION SECTION 23 05 53.01 FOR LABELLING REQUIREMENTS.
- PROVIDE TYPE ABC PORTABLE FIRE EXTINGUISHER. INSTALL ACCORDING TO NFPA 10.

LEGEND:

- NEW EQUIPMENT OR PIPING
- EXISTING EQUIPMENT OR PIPING
- NEW UNDER SLAB PIPING
- C.O. | CLEANOUT
- CAP
- F.D. FLOOR DRAIN
- H.D. HUB DRAIN
- T.D. TRENCH DRAIN
- ES- EMERGENCY EYEWASH / SHOWER
- DCW DOMESTIC COLD WATER
- DHW DOMESTIC HOT WATER
- DHWR DOMESTIC HOT WATER RETURN
- IRW IRRIGATION WATER

FLOOR DRAIN		
TAG	DESCRIPTION	MAKE/MODEL
FD	750 EPOXY COATED CAST IRON C/W SEDIMENT BUCKET	WADE/1003-27

TRENCH DRAIN		
TAG	DESCRIPTION	MAKE/MODEL
TD	TRENCH DRAIN C/W 460x460 SUMP	NORSTAR/U-DRAIN

SCALE VERIFIED BY: MAP

APEGM
Certificate of Authorization
KGS Group
No. 245

P.S. SILVA
Member
2113

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada
REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

Design Team Consultant
KGS GROUP | CONSULTING ENGINEERS

KGS GROUP
CONSULTING ENGINEERS

Revision	Description	Date
0	ISSUED FOR TENDER	2016/06/29

PUBLIC WORKS & GOVERNMENT SERVICES CANADA

Project
MORDEN, MANITOBA
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MORDEN RESEARCH AND DEVELOPMENT CENTRE GREENHOUSE EXTENSION

Designed by
PSS

Drawn by
ML

Approved by
BRAD SITARZ

PWGSC Project Manager
Administrateur de Projets TPSGC

Drawing title
Titre du dessin

MECHANICAL PLUMBING
MAIN FLOOR PLAN

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
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