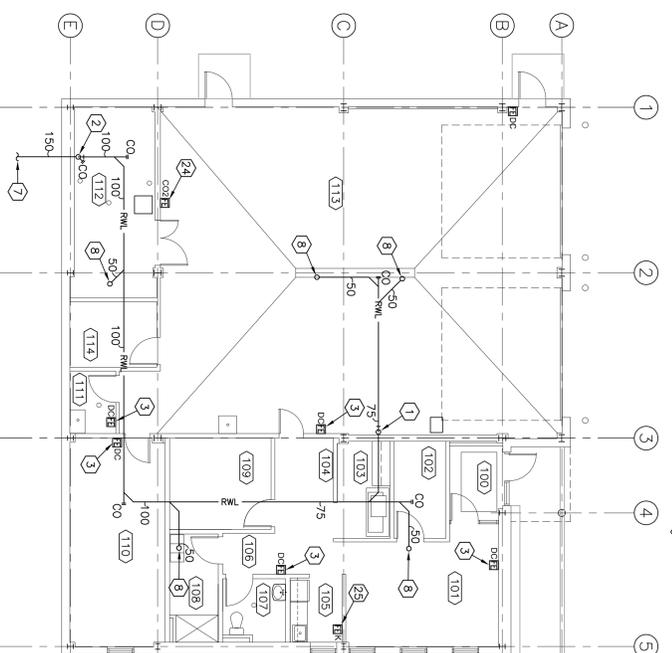


ROOF PLAN

SCALE : 1:100

1
M4

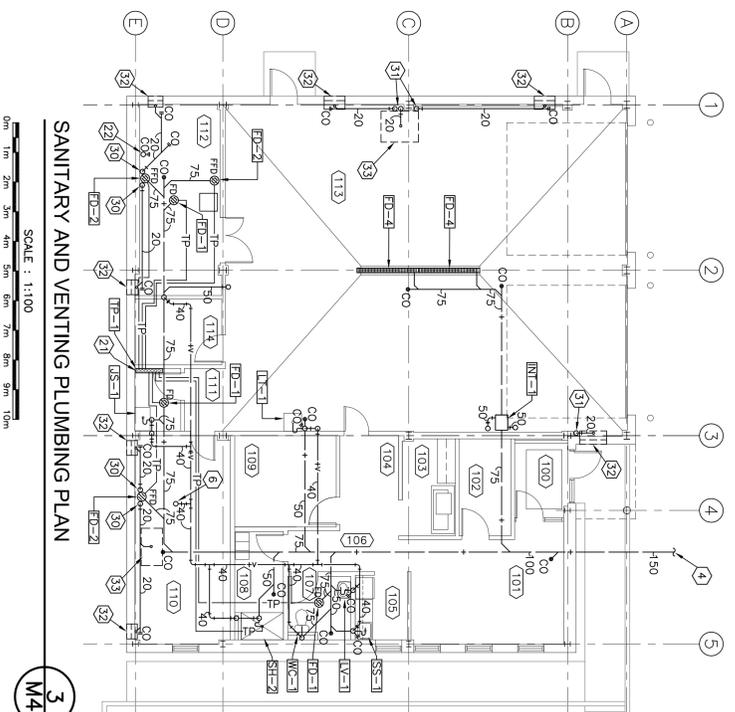


STORM DRAINAGE & FIRE PROTECTION PLAN

SCALE : 1:100

2
M4

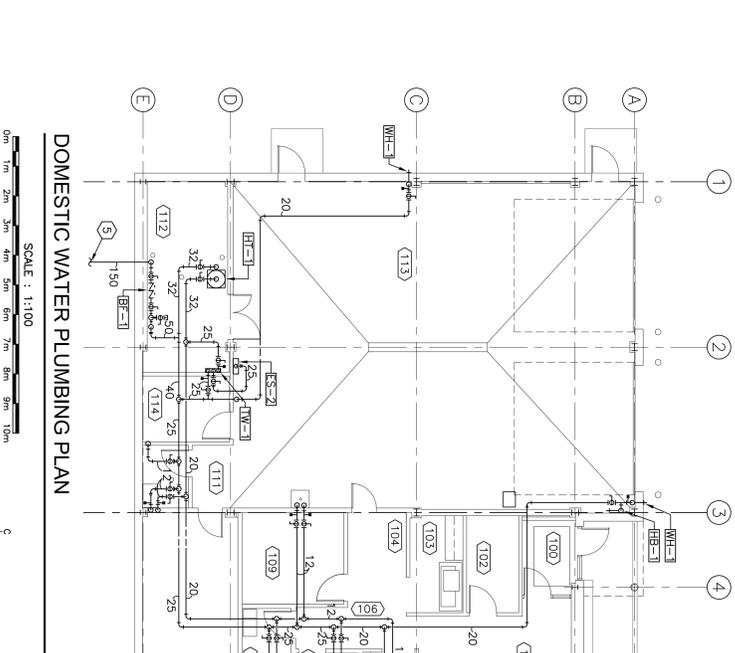
- DRAWING NOTES:
- 75mm R/WL DOWN FROM HIGH ROOF TO THE INTO LOWER ROOF STORM DRAIN LINE AS INDICATED.
 - 100mm R/WL DOWN, C/W CLEANOUT INCREASE TO 150mm AT SLAB AND ROUTE OUTSIDE OF BUILDING AS INDICATED.
 - 4.5% MULTIPROOF DRY CHEMICAL FIRE EXTINGUISHER MOUNTED ON WALL BRACKET, TYPICAL. SEE PLAN 2 THIS DRAWING FOR LOCATIONS AND QUANTITIES.
 - 150mm BUILDING SANITARY MAIN, REDUCE DOWN TO 100mm ONCE INSIDE BUILDING.
 - 150mm BUILDING DOMESTIC WATER SERVICE MAIN, REDUCE DOWN TO SIZES INDICATED ONCE INSIDE BUILDING.
 - 40mm VENT LINE UP, INCREASE TO 100mm INSIDE BUILDING.
 - 150mm BUILDING STORM DRAIN, REDUCE DOWN TO 100mm ONCE INSIDE BUILDING.
 - 50mm R/WL UP TO CONNECT TO ROOF DRAIN. PROVIDE ALL FITTINGS AS REQUIRED FOR CONNECTION. FOR CONTINUATION SEE PLAN 1 THIS SHEET.
 - WALL MOUNTED CONDENSER C/W SERVING FC12 AND FC13 SUSPENDED ON EXTERIOR WALL. FOR SUPPORT DETAILS SEE DETAIL 4 ON DRAWING M5.
 - EMERGENCY FUME EXHAUST FAN F4 MOUNTED ON BUILDING EXTERIOR.
 - CARBON MONOXIDE (CO) AND NITROUS OXIDE (N₂O) DETECTORS CONNECTED TO (H003) PANEL.
 - HAZARDOUS GAS DETECTION SYSTEM (H003) PANEL.
 - PLUMBING VENT THROUGH ROOF. INSULATION AND RIM THROUGH ROOF. SEE ARCHITECTURAL FOR ROOF PENETRATION DETAILS.
 - 700/600 EXHAUST AIR LOUVER. SEE DRAWING M7 FOR DETAILS.
 - 700/600 FRESH AIR INTAKE LOUVER. SEE DRAWING M7 FOR DETAILS.
 - 500/200 FRESH AIR INTAKE LOUVER. SEE DRAWING M7 FOR DETAILS.
 - 500/200 FRESH AIR INTAKE LOUVER. SEE DRAWING M7 FOR DETAILS.
 - 500/200 FRESH AIR INTAKE LOUVER. SEE DRAWING M7 FOR DETAILS.
 - 900/400 FRESH AIR INTAKE LOUVER. SEE DRAWING M7 FOR DETAILS.
 - 500/200 FRESH AIR INTAKE LOUVER. SEE DRAWING M7 FOR DETAILS.
 - EMERGENCY FUME EXHAUST FAN F4 TO ELECTRONIC TRAP SEAL PRIMER PANEL MOUNTED ON WALL. EXACT NUMBER OF LINES AND ROUTING TO BE CONFIRMED ON SITE.
 - 150mm R/WL UP THROUGH SLAB C/W CLEANOUT. REDUCE TO 100mm AT FLOOR. FOR CONTINUATION SEE PLAN 1 THIS SHEET.
 - REHEAT COIL, RHC3 INSTALLED IN 500/200 SUPPLY AIR DUCT BELOW 500/200 EXHAUST AIR DUCT.
 - CARBON DIOXIDE FIRE EXTINGUISHER MOUNTED ON WALL BRACKET. SEE SPECIFICATIONS FOR MORE DETAILS.
 - WET CHEMICAL CLASS K FIRE EXTINGUISHER FOR WAREHOUSE. SEE SPECIFICATIONS FOR DETAILS.
 - DESTRIKATION FANS F7 & F8. SEE SCHEDULE DRAWING M7 FOR DETAILS.
 - SPEED/FORWARD/REVERSE CONTROLLER. SEE SCHEDULE DRAWING M7 FOR DETAILS.
 - DUCTWORK TURNING DOWN TO ELEVATION OF LOWER CEILING SPACE AND RUN AS INDICATED TO SPACES SERVED.
 - 350/250 EXHAUST DUCT DOWN TO TERMINATE OPEN ENDED 450mm ABOVE FINISHED FLOOR C/W BALANCING DAMPER. BALANCE DUCT TO 380 L/S AIRFLOW.
 - 20mm CONDENSATE DRAINAGE LINES DOWN TO FUNNEL FLOOR DRAIN.
 - 20mm COMPENSATE DRAINAGE LINES DOWN FACE OF WALL TO TERMINATE 300mm A.F.F.
 - OUTLINE OF ALL WEIBED/INSULATED HVAC CONNECTION. SEE PLAN 5 THIS SHEET AND DETAIL 4 ON DRAWING M7 FOR DESCRIPTION.
 - OUTLINE OF HVAC EQUIPMENT CONDENSATE DRAIN SCHEDULE ON M8 FOR DESCRIPTION.
 - 300/250 OPEN ENDED FRESH AIR INTAKE DUCT DOWN TO 450mm A.F.F.
 - COMBINATION HOBN AND STROBE WIRED BACK DOWN TO HO3S PANEL. SEE DETAIL 7 DRAWING M10.
 - 20mm CONDENSATE DRAINAGE LINES DOWN TO FUNNEL FLOOR DRAIN.
 - 20mm COMPENSATE DRAINAGE LINES DOWN FACE OF WALL TO TERMINATE 300mm A.F.F.
 - OUTLINE OF ALL WEIBED/INSULATED HVAC CONNECTION. SEE PLAN 5 THIS SHEET AND DETAIL 4 ON DRAWING M7 FOR DESCRIPTION.
 - OUTLINE OF HVAC EQUIPMENT CONDENSATE DRAIN SCHEDULE ON M8 FOR DESCRIPTION.
 - 300/250 OPEN ENDED FRESH AIR INTAKE DUCT DOWN TO 450mm A.F.F.
 - COMBINATION HOBN AND STROBE WIRED BACK DOWN TO HO3S PANEL. SEE DETAIL 7 DRAWING M10.



SANITARY AND VENTING PLUMBING PLAN

SCALE : 1:100

3
M4



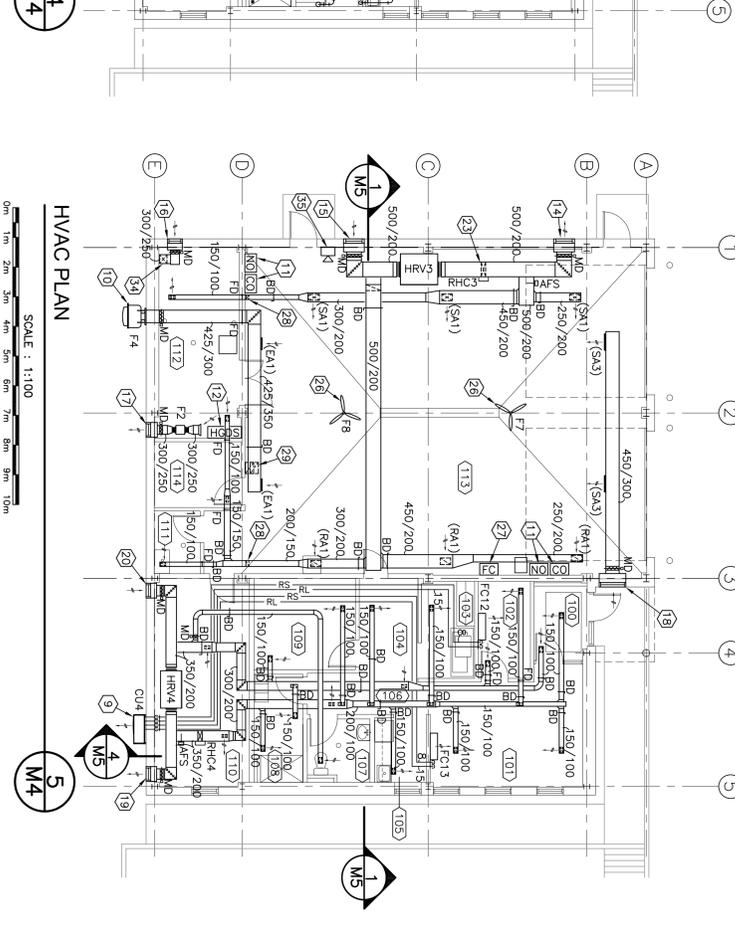
DOMESTIC WATER PLUMBING PLAN

SCALE : 1:100

4
M4

ROOM NUMBER/NAME	TYPE/S*	SIZE**	# REQ'D	RETURN/EXHAUST
100 VESTIBULE	SA1	200x100	2	10
101 WORK STATIONS	SA1	200x100	13	10
102 JAN ROOM	SA1	200x100	1	10
103 SHARED EQUIPMENT ROOM	SA1	200x100	1	10
104 OPEN OFFICE AREA	SA1	200x100	1	10
105 CORRIDOR	SA1	200x100	1	10
106 CORRIDOR	SA1	200x100	1	10
107 WASHROOM	SA1	200x100	1	10
108 SHOWER/LOCKER ROOM	SA1	200x100	1	10
109 SCULPTURE STORAGE	SA1	200x100	1	10
110 WORKSHOP AREA	SA1	200x100	1	10
111 JANITOR	SA1	200x100	1	10
112 MECHANICAL/ELECTRICAL ROOM	SA1	200x100	1	10
113 HEATED WAREHOUSE	SA1	350x200	2	35
114 RECYCLING ROOM	SA1	350x200	2	35

** SEE SCHEDULE FOR DESCRIPTION.
*## INDICATES FACE SIZE. # INDICATES NECK SIZE. ALL SIZES IN METRIC (MM).



HVAC PLAN

SCALE : 1:100

5
M4

SYMBOL	DESCRIPTION
→	SANITARY PIPING BELOW GRADE
→	SANITARY PIPING ABOVE GRADE
FD	FLOOR DRAIN
FD	FLOOR DRAIN WITH FUNNEL
HD	HUB DRAIN
→	CLEANOUT ABOVE SLAB
→	CLEANOUT IN SLAB
→	SANITARY VENT PIPE
→	DOMESTIC COLD WATER PIPE
→	DOMESTIC HOT WATER RECHG PIPE
→	PIPE ELBOW UP
→	PIPE ELBOW DOWN
→	BALL VALVE
→	GATE VALVE
→	CHECK VALVE
→	FIGURE TRAP
→	FIGURE TAG (SEE SCHEDULE)
→	STRAIGHT TEE
→	TOP TAKE-OFF TEE
→	CIRCUIT SETTER
→	WATER HAMMER ARRESTOR
→	REFRIGERANT SUCTION PIPING
→	PIPE ELBOW DOWN
→	PIPE ELBOW UP
→	RIGID DUCTING
→	90° MITRED ELBOW W/ TURNING VANES
→	SUPPLY AIR GRILLE
→	RETURN OR EXHAUST AIR GRILLE
→	SUPPLY AIR DUCT UP
→	RETURN OR EXHAUST AIR DUCT UP
→	RETURN OR EXHAUST AIR DUCT DOWN
→	RETURN OR EXHAUST AIR DUCT DOWN
→	TYPE (SEE SCHEDULE)
→	NECK SIZE
→	DESIGN AIRFLOW

ROOM NAME LIST	DESCRIPTION
100 VESTIBULE	100 VESTIBULE
101 WORK STATIONS	101 WORK STATIONS
102 JAN ROOM	102 JAN ROOM
103 SHARED EQUIPMENT ROOM	103 SHARED EQUIPMENT ROOM
104 OPEN OFFICE AREA	104 OPEN OFFICE AREA
105 CORRIDOR	105 CORRIDOR
106 CORRIDOR	106 CORRIDOR
107 WASHROOM	107 WASHROOM
108 SHOWER/LOCKER ROOM	108 SHOWER/LOCKER ROOM
109 SCULPTURE STORAGE	109 SCULPTURE STORAGE
110 WORKSHOP AREA	110 WORKSHOP AREA
111 JANITOR	111 JANITOR
112 MECHANICAL/ELECTRICAL ROOM	112 MECHANICAL/ELECTRICAL ROOM
113 HEATED WAREHOUSE	113 HEATED WAREHOUSE
114 RECYCLING ROOM	114 RECYCLING ROOM

Public Works and
Government Services
Travaux Publics et
Services gouvernementaux
Canada

amec foster wheeler

PERMIT HOLDER
The Permit Allows
11/11/2017
28.05.17

PROVIDE OF NETWORK, LAY AND LABORERS
AMEC FOSTER WHEELER
11/11/2017
28.05.17

1. CONTRACTOR TO VERIFY ALL SITE CONDITIONS, LOCATIONS AND DIMENSIONS PRIOR TO COMMENCING WORK. TRACE OUT ALL SYSTEMS BEFORE INITIATING WORK. COORDINATE SYSTEM SHOT & SERVICE INTERUPTIONS WITH OWNER.

2. PROVIDE ALL MATERIALS & LABOR REQUIRED FOR THIS PROJECT. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, REGULATIONS & DRAWINGS THAT FORM PART OF THIS CONTRACT.

3. DO NOT SCALE FROM DRAWINGS.

4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

APPROX. NORTH

DESIGNED BY: J. J. DATE: JUNE 28, 2017

DRAWN BY: T. B. DATE: JUNE 28, 2017

CHECKED BY: M. S. DATE: JUNE 28, 2017

ISSUED FOR TENDER: JUN 28, 2017

ISSUED FOR 95% REVIEW: APR 28, 2017

ISSUED FOR CLIENT REVIEW: APR 28, 2017

PROJECT: MCTS CENTRE AND C&P BUILDING PLACENTA

ROOF PLAN, PLUMBING, FIRE PROTECTION & HVAC PLANS

R.081781.004

M4