



DRAWINGS

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STRUCTURAL

MECHANICAL

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- M101 NEW PLUMBING PLAN - LEVEL 1 AND LEVEL 2
- M200 NEW PIPING PLAN - LEVEL 1 AND LEVEL 2 (RESERVED)
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CIVIL

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LANDSCAPE

- PLANTING SITE PLAN

KITCHEN

- FS-01 FOODSERVICE EQUIPMENT PLAN

PORTLAND MUNICIPAL HUB

24 WATER STREET
PORTLAND, ONTARIO
K0G 1V0
#22114

PROJECT NAME:

PROJECT LOCATION:

PROJECT NUMBER:

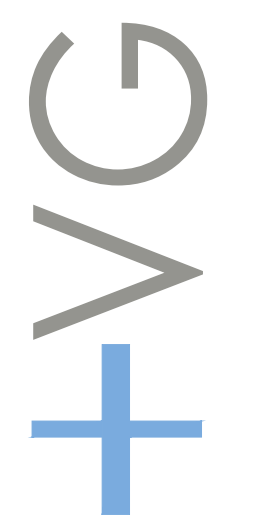
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ORIGINAL PAGE SIZE ARCH D - 24" x 36"

ARCHITECTS
THE VENTIN GROUP LTD

BRANTFORD
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CLIENT:
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MECHANICAL:

VANDERWESTEN & RUTHERFORD
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OTTAWA, ONTARIO
K2H 9N6

ELECTRICAL:

VANDERWESTEN & RUTHERFORD
1130 MORRISON DRIVE, SUITE 260
OTTAWA, ONTARIO
K2H 9N6

LANDSCAPE:

JASON SMALLEY LANDSCAPE DESIGN
2080 DOVERCOURT AVENUE
OTTAWA, ONTARIO,
K2A 0X1

CIVIL:

MCINTOSH PERRY
115 WALGREEN ROAD
R.R. 3 CARP, ONTARIO
K0A 1L0

KITCHEN:

PLANNED FOODSERVICE SOLUTIONS
1641 OXFORD CRESCENT
OTTAWA, ONTARIO
K4A 1V3

GENERAL ABBREVIATIONS

Table with 2 columns: GENERAL ABBREVIATIONS and MATERIALS ABBREVIATIONS. Lists various construction abbreviations like A/F/F, ADJ., ARCH., BAR., etc.

ROOM NAMES

Table with 2 columns: ROOM NAMES and MATERIALS ABBREVIATIONS. Lists room names like CLASSROOM, COMMUNICATION, CONFERENCE, etc.

BUILDING OBC MATRIX

Main table for Building OBC Matrix. Columns include: FIRM NAME, NAME & LOCATION OF PROJECT, PROJECT DESCRIPTION, BUILDING USE, MAJOR OCCUPANCY, SUPERIMPOSED MAJOR OCCUPANCIES, BUILDING AREA, GROSS AREA, MEZZANINE AREA, MEZZANINE CONSIDERED TO BE A STOREY, BUILDING HEIGHT, HEIGHT OF BUILDING, HIGH BUILDING, NUMBER OF STREETS/ ACCESS ROUTES, BUILDING CLASSIFICATION, SPRINKLER SYSTEM PROPOSED, STANDPIPE REQUIRED, FIRE ALARM REQUIRED, WATER SERVICE/ SUPPLY IS ADEQUATE, PERMITTED CONSTRUCTION, ACTUAL CONSTRUCTION, IMPORTANCE CATEGORY, SEISMIC HAZARD INDEX, TOTAL OCCUPANCY LOADING, BARRIER-FREE DESIGN.

OBC MATRIX

Table for Plumbing Fixtures, Hazardous Substances, Required Fire Resistance Rating, Floors Over Basement, FRR of Supporting Members, Travel Distance to Egress & Exit Doors, Fire Extinguishers, Spatial Separation - Construction of Exterior Walls, Energy Efficiency, General Notes, Barrier-Free Doors & Doorways, Power Door Operators, Vision Strips.

REVISIONS

Table for Revisions with columns: NO., DATE, PARTICULAR. Shows revision 1 on 22.07.11 for 33% REVIEW.

NOTES

Notes section containing various technical notes and instructions related to the building design and construction.

KEY PLAN

Client information: TOWNSHIP OF RIDEAU LAKES, 1439 COUNTY ROAD 8 DELTA, ONTARIO. Project: #22114, PORTLAND MUNICIPAL HUB.

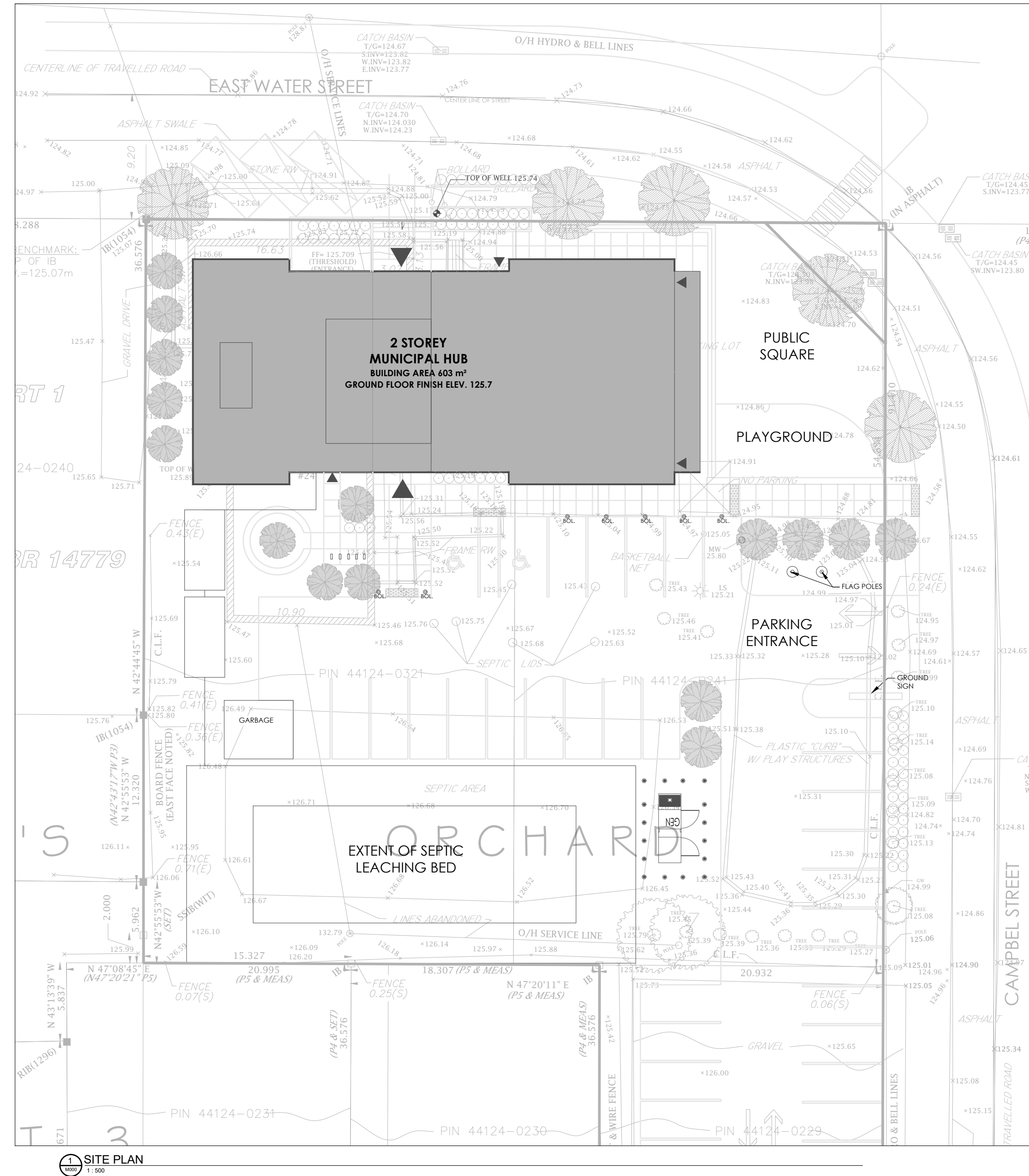
PROJECT

Project details: 24 WATER STREET, PORTLAND ONTARIO, K0G 1V0. Original page size ARCH D - 24" x 36". Key to detail location: A - DETAIL NO., B - DETAIL NO. ORIGIN.



A0.2

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GENERAL NOTES

- CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS TO EXISTING MECHANICAL SERVICES ON SITE.
- EXISTING ITEMS TO BE REMOVED REMAIN THE PROPERTY OF THE OWNER AND SHALL BE DELIVERED TO A LOCATION ON SITE DESIGNATED BY THE OWNER. IF THE OWNER DECLARES NO INTEREST IN THE REMOVED ITEMS, ASSUME OWNERSHIP AND REMOVE THE ITEMS FROM THE SITE.
- ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH CODES, BULLETINS ETC. AND REQUIREMENTS OF ALL INSPECTION AUTHORITIES FOR MALLORYTOWN.
- ALL DRAWINGS ARE INTEGRATED WITH THE SPECIFICATIONS WHICH ACCOMPANY THEM. NEITHER IS TO BE USED ALONE, ANY ITEM OR SUBJECT OMITTED FROM ONE BUT IMPLIED IN THE OTHER IS FULLY AND PROPERLY REQUIRED. WHEREVER DIFFERENCE OCCURS, THE MOST ONEROUS CONDITION GOVERNS.
- PENETRATIONS OF EITHER FIRE OR SMOKE BARRIER RESISTANT WALLS SHALL BE SLEEVED & SEALED AGAINST THE PASSAGE OF FLAME OR SMOKE W/SUITABLE NON-COMBUSTIBLE MATERIALS EQUAL TO THE CONSTRUCTION TO BE PENETRATED.
- DO NOT SCALE DRAWINGS FOR INSTALLATION PURPOSES. OBTAIN ALL DIMENSIONS FROM ARCHITECTURAL PLANS, MANUFACTURER'S SHOP DRAWINGS, AND ON SITE INSPECTIONS.
- MECHANICAL, DIV. 2-14 AND ELECTRICAL TRADES SHALL WORK IN CONJUNCTION WITH ONE ANOTHER SO AS TO AVOID INTERFERENCES BETWEEN PIPING, DUCTWORK, CONDUIT, LIGHTING FIXTURES, ETC.
- WORK SHALL BE CO-ORDINATED THROUGH THE GENERAL CONTRACTOR PRIOR TO INSTALLATION OF ANY EQUIPMENT, DUCTWORK AND CONTROLS. CO-ORDINATE WITH ARCHITECTURAL ELEVATIONS FOR ARCHITECTURAL, MECHANICAL, AND ELECTRICAL SPACE ALLOCATIONS.
- REFER TO ARCHITECTURAL FOR OWNER SUPPLIED EQUIPMENT. CONFIRM ALL MECHANICAL REQUIREMENTS AND PROVIDE TO SUIT.
- REVIEW ARCHITECTURAL AND ELECTRICAL DRAWINGS AND PROVIDE ON SITE INSPECTIONS TO DETERMINE FULL EXTENT OF PROJECT PRIOR TO SUBMITTING BID.
- PENETRATIONS OF CONCRETE SHALL BE SAW-CUT OR CORE BORED - IMPACT HAMMERS ARE NOT ALLOWED, SEAL ALL DUCTWORK & SLEEVES TO PREVENT LEAKAGE THRU FLOOR.
- PROPERLY SUPPORT CEILING MOUNTED EQUIPMENT AND ANY OTHER EQUIPMENT INDEPENDENT OF CEILING SUPPORT SYSTEM.
- AVOID ANY DIRECT CONTACT BETWEEN ANY PIPING, DUCTING AND ELECTRICAL CONDUIT SYSTEMS TO PREVENT SOUND TRANSMISSION.
- INSTALLATION SHALL BE COMPLETE AND FULLY FUNCTIONAL. PROVIDE ALL LABOR, MATERIALS, TOOLS, SERVICES, EQUIPMENT, ETC. AS REQUIRED.
- PROVIDE ACCESS FOR SERVICING EQUIPMENT AS INDICATED, AS REQUIRED BY CODE AND AS RECOMMENDED BY THE MANUFACTURER.
- PROVIDE ACCESS DOORS AS NECESSARY FOR ACCESS TO VALVES, DAMPERS, AND OTHER COMPONENTS REQUIRING MONITORING, INSPECTION, AND MAINTENANCE.
- INSTALL EQUIPMENT, DUCTS, AND PIPES PARALLEL TO OR PERPENDICULAR TO BUILDING LINES. PROVIDE SPACE, UNIONS AND FLANGES FOR DISASSEMBLY, SERVICING AND REMOVAL OF EQUIPMENT.
- WHEN A CONFLICT OCCURS BETWEEN INSTALLATION DETAILS, DIAGRAMS, ETC. INDICATED IN THE CONTRACT DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS, THE MANUFACTURER'S INSTRUCTIONS SHALL GOVERN AND SHALL BE FOLLOWED.

GENERAL PLUMBING NOTES

- PROVIDE A CLEANOUT AT THE BOTTOM OF EVERY SOIL AND WASTE STACK THAT CONNECTS TO A HORIZONTAL DRAINAGE PIPE.
- PROVIDE A CLEANOUT FROM EACH PLUMBING FIXTURE WHERE REQUIRED BY ONTARIO BUILDING CODE.
- CHECK AND VERIFY LOCATION OF ALL PIPES, DUCTS AND EQUIPMENT WITH ALL OTHER TRADES TO PREVENT INTERFERENCE. REMOVAL OR RELOCATION OF ANY SUCH WORK INTERFERING WITH WORK OF OTHER TRADES IS THE RESPONSIBILITY OF THE MECHANICAL TRADE CONCERNED UNLESS OTHERWISE APPROVED IN WRITING.
- ALL PLUMBING FIXTURES INCLUDING FLOOR DRAINS TO BE TRAPPED, PRIMED AND VENTED AS REQUIRED BY ONTARIO BUILDING CODE.
- ALL CONDENSATE LINES TO BE TRAPPED AT UNITS. REFER TO H.V.A.C. DRAWINGS FOR LOCATION.
- PROVIDE MIN. 2% SLOPE ON ALL HORIZONTAL CONDENSATE LINES.
- FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT REFER TO H.V.A.C. DRAWINGS.
- FOR MOUNTING HEIGHT OF ALL PLUMBING FIXTURES REFER TO ARCHITECTURAL ELEVATION DRAWINGS.
- WHENEVER COLD AND HOT WATER DISTRIBUTION TO LAVATORIES IS TO RUN UNDER COUNTER, PIPING DISTRIBUTION IS TO BE INSTALLED AS TIGHT TO UNDER SIDE OF THE COUNTER AS POSSIBLE.
- PLUMBING VENTS THROUGH ROOF SHALL BE AT LEAST 2'-11" HIGHER OR 11'-6" AWAY FROM ANY OUTDOOR AIR INTAKES, OPENABLE WINDOWS OR DOORS.
- ALL WATER, SANITARY, SEWER AND VENT COPPER PIPING WITH SOLDER JOINTS SHALL BE LEAD FREE.
- DO NOT INSTALL WATER LINES IN OUTSIDE WALL WHERE THEY MAY FREEZE, UNLESS BOTH THE WALL AND THE PIPES ARE PROPERLY INSULATED.
- EACH GROUP OF PLUMBING FIXTURES SHALL BE EQUIPPED WITH WATER SHUT-OFF VALVES IN THE CEILING SPACE.
- INSTALL SHUT-OFF VALVES AT EACH PLUMBING FIXTURE.
- PROVIDE ALL BACKFLOW PREVENTERS AND VACUUM BREAKERS REQUIRED BY ONTARIO BUILDING CODE AND AUTHORITIES HAVING JURISDICTION.
- COORDINATE THE INSTALLATION OF CLEANOUTS AND ACCESS TO DOORS WITH ARCHITECTURAL FINISHES TO AVOID INTERFERENCE WITH BASE DETAILS.
- IMMEDIATELY ON DISCOVERY OF ASBESTOS-CEMENT PIPING, THE CONTRACTOR SHALL STOP WORK IN THE AREA AND NOTIFY THE CONSULTANT IN ORDER TO OBTAIN FURTHER INSTRUCTION. ALL WORK ASSOCIATED WITH THE ASBESTOS-CEMENT PIPING SHALL BE EXECUTED IN CONFORMANCE WITH INSTRUCTIONS FROM THE HAZARDOUS MATERIAL ABATEMENT CONSULTANT. ONLY PERSONNEL TRAINED IN HANDLING ASBESTOS-CEMENT PIPING AND WEARING APPROPRIATE PROTECTIVE CLOTHING AND EQUIPMENT SHALL BE PERMITTED TO EXECUTE THE WORK. WORK IN THE AFFECTED AREA MAY BE RESUMED ONLY AFTER THE HAZARDOUS MATERIALS ABATEMENT CONSULTANT HAS ISSUED A CLEARANCE CERTIFICATE.

GENERAL AIR DISTRIBUTION NOTES

- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CO-ORDINATION OF GRILLES, DIFFUSERS AND OTHER ELEMENTS.
- CONTRACTORS SHALL COORDINATE ALL CEILING FINISHES WITH ARCHITECTURAL DRAWINGS.
- CONTRACTOR SHALL REVIEW MECHANICAL DRAWINGS, ARCHITECTURAL REFLECTED CEILING PLANS AND ARCHITECTURAL ROOM FINISH SCHEDULES AS SOON AS CONTRACT DOCUMENTS ARE SIGNED. ADVISE CONSULTANT OF ANY CONFLICTS BETWEEN CEILING TYPE AND DIFFUSER/GRILLE TYPE.
- CONTRACTOR AND DIFFUSER/GRILLE SUPPLIER ARE RESPONSIBLE TO PROVIDE ALL PLASTER AND FINISHING FRAMES, MOUNTING HARDWARE, AND ACCESSORIES TO SUIT ARCHITECTURAL CEILING TYPES. MECHANICAL CONTRACTOR SHALL CO-ORDINATE AND PROVIDE DETAILS OF MOUNTING REQUIREMENTS OF DIFFUSERS AND GRILLES IN DRYWALL CEILINGS TO DRYWALL TRADE AND ENSURE EDGES OF OPENINGS ARE FRAMED BY DRYWALL TRADE TO SUPPORT DIFFUSERS AND GRILLES PROPERLY. DIFFUSERS AND GRILLES MUST NOT BE SUPPORTED SOLELY BY HANGER WIRES.
- PROPERLY SUPPORT CEILING MOUNTED EQUIPMENT AND ANY OTHER EQUIPMENT INDEPENDENT OF CEILING SUPPORT SYSTEM. REFER TO ARCHITECTURAL DETAILS AND CO-ORDINATE WITH STRUCTURAL TRADE.
- ALL DUCTWORK FITTINGS SHALL BE RIGID GALVANIZED IRON. NO FLEXIBLE DUCTWORK SHALL BE USED IN LIEU OF RIGID DUCTWORK. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.
- CONTRACTOR TO CARRY FOR ADDITIONAL DUCTS AND DUCT FITTING REQUIRED TO CLEAR THE INTERFERENCES IN THE CEILING SPACE.
- LOCATION OF THERMOSTATS TO BE COORDINATED WITH FINAL LOCATION OF FURNITURE AND EQUIPMENT. TYPICAL FOR ALL INDICATED.

MECHANICAL DRAWING LIST

M000	MECHANICAL DRAWING LIST, LEGEND, NOTES, AND KEY PLAN
M001	MECHANICAL SCHEDULES
M002	MECHANICAL SCHEDULES CONTINUED (RESERVED)
M003	MECHANICAL DETAILS
M100	NEW PLUMBING PLAN - UNDERGROUND DRAINAGE & ROOF PLAN
M101	NEW PLUMBING PLAN - LEVEL 1 & LEVEL 2
M200	NEW PIPING PLAN - LEVEL 1 & LEVEL 2 (RESERVED)
M201	NEW PIPING PLAN - ROOF PLAN
M300	NEW HVAC PLAN - LEVEL 1 & LEVEL 2
M301	NEW HVAC PLAN - ROOF PLAN (RESERVED)

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	INLINE PUMP
	STRAINER
	ISOLATING (SHUT-OFF) VALVE
	CIRCUIT BALANCING VALVE
	CHECK (FLOW CONTROL)
	POSITIVE PRESSURE (SUPPLY) DUCT UP
	POSITIVE PRESSURE (SUPPLY) DUCT UP
	NEGATIVE PRESSURE (RETURN) DUCT UP
	POSITIVE PRESSURE (SUPPLY) DUCT DOWN
	POSITIVE PRESSURE (SUPPLY) DUCT DOWN
	NEGATIVE PRESSURE (RETURN) DUCT DOWN
	EXISTING DUCTWORK TO BE REMOVED
	EXISTING DUCTWORK TO REMAIN
	NEW DUCTWORK
	SUPPLY AIR DIFFUSER (SQUARE)
	RETURN/EXHAUST GRILLE
	TURNING VANES
	FIRE DAMPER
	BALANCING DAMPER
	MOTORIZED DAMPER
	THERMOSTAT
	INDICATES NEW SUPPLY AIR OUTLET
	INDICATES NEW EXHAUST AIR OUTLET
	INDICATES NEW RETURN AIR OUTLET
	PIPING RISER UP
	PIPING DROP
	PIPING RISER UP & DOWN
	UNION
	FLANGE
	REFRIGERANT (LIQUID & SUCTION)
	HEAT TRACED PIPE
	PIPING TO BE REMOVED
	CONNECTION OF NEW AND EXISTING PIPE
	CAPPED PIPE
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	FIRE EXTINGUISHER - SURFACE MOUNTED WITH BRACKET
	VENT THROUGH ROOF
	SANITARY PIPING ABOVE FLOOR
	SANITARY PIPING BELOW GRADE OR FLOOR
	CONDENSATE PIPING

REVIEW ALL DRAWINGS AND VERIFY ALL DIMENSIONS AT THE SITE. DO NOT SCALE THE DRAWINGS. REPORT ALL DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH ANY CONSTRUCTION OR SHOP FABRICATION. ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF VANDERWESTEN & RUTHERFORD ASSOCIATES INC. AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ENGINEER'S WRITTEN PERMISSION.

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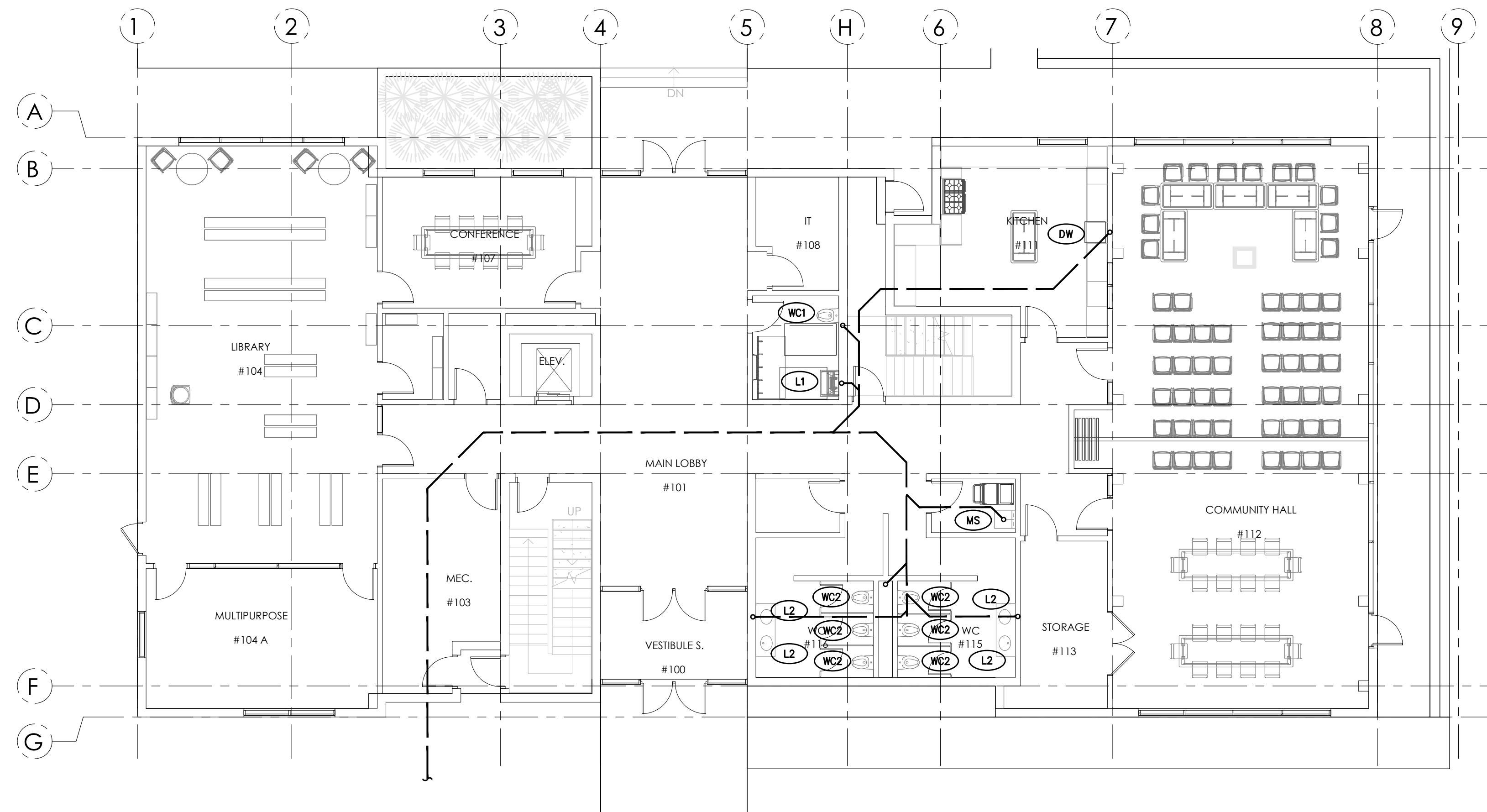
Project:

PORTLAND MUNICIPAL HUB

Drawing Title:
MECHANICAL DRAWING LIST, LEGEND, NOTES, AND KEYPLAN

Drawn By: AW	Checked By: RD
Date: 2022-06-22	Scale: N.T.S.
Project Number: VR-22-073	Drawing No.: M000

NOTES:
 1. PROVIDE SANITARY AND VENT PIPING, ROUTED AS SHOWN. CONNECT SANITARY TO NEW SANITARY PIPING TO SEPTIC TANK. COORDINATE EXACT LOCATION ON SITE.



UNDERSLAB DRAINAGE
 M100 1:100

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 ENGINEERING FORWARD VR 22-073

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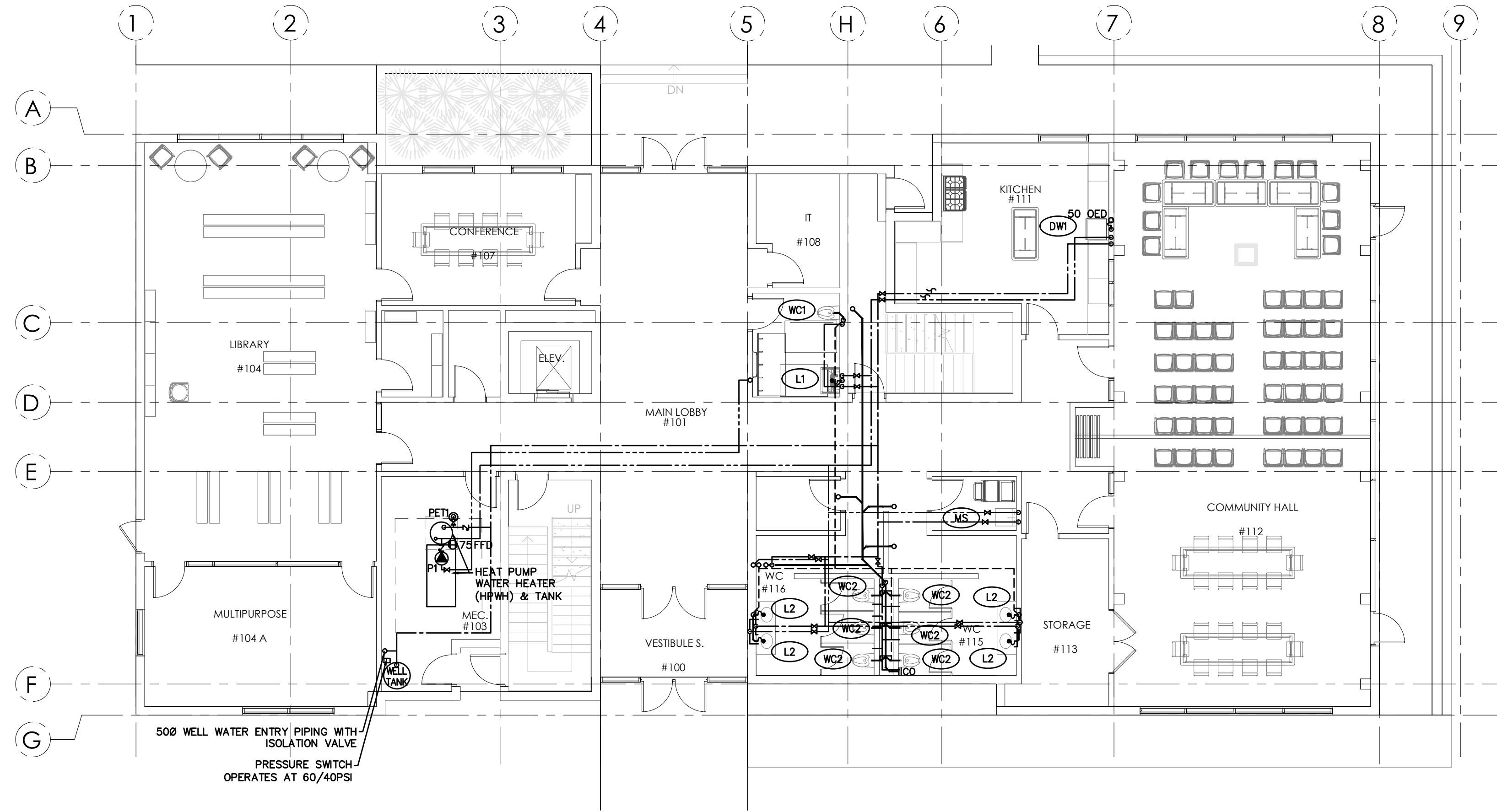
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Drawing Title:
**NEW PLUMBING PLAN –
 UNDERSLAB DRAINAGE & ROOF PLAN**

Drawn By: AW	Checked By: RD
Date: 2022-06-22	Scale:
Project Number: VR-22-073	Drawing No.: M100

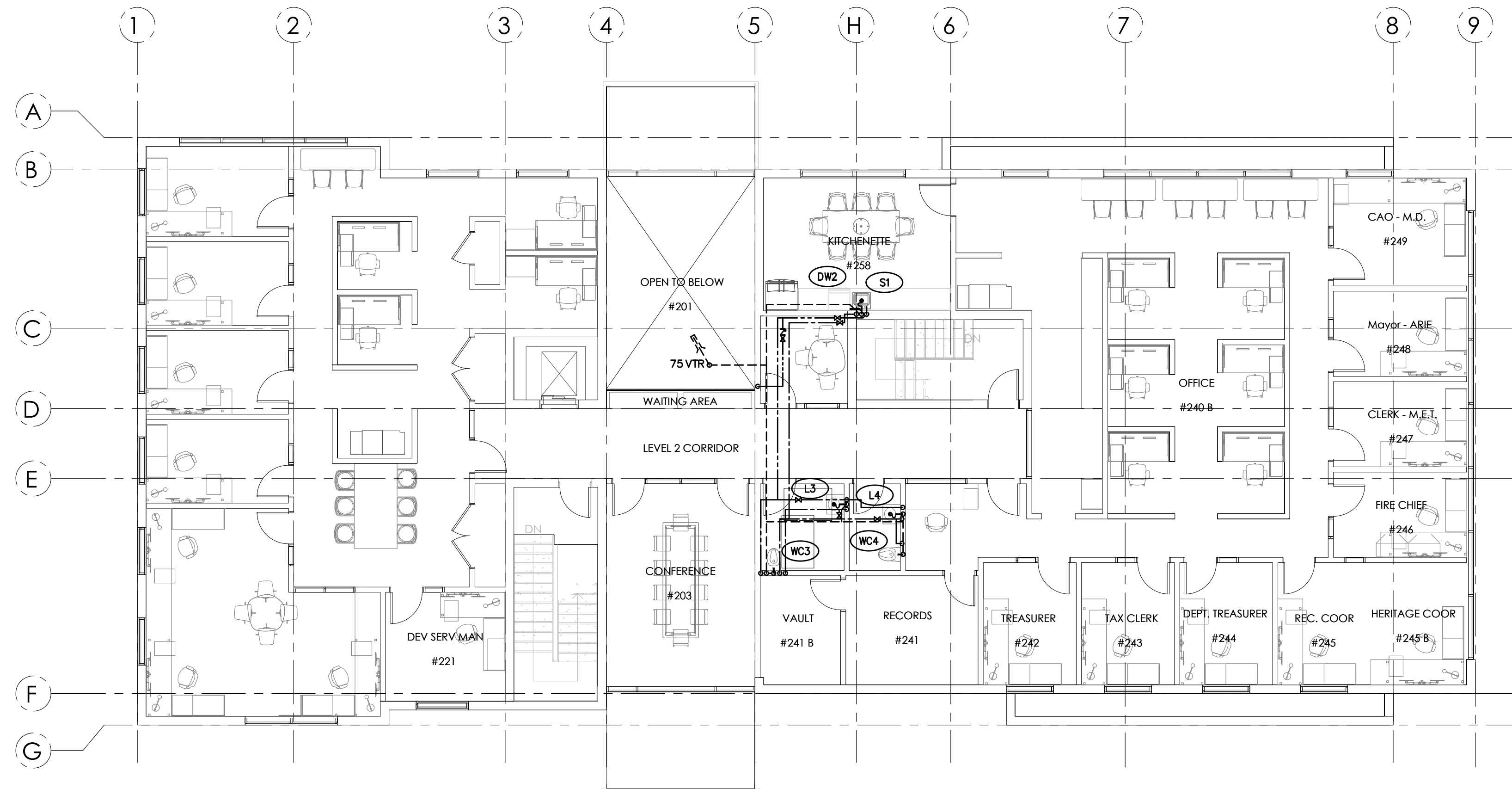
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- NOTES:**
1. PROVIDE PLUMBING FIXTURES AND ASSOCIATED HW, CW, SANITARY & VENT PIPING, ROUTED AS SHOWN.
 2. PROVIDE NEW WATER PIPING UNDERGROUND TO THE WATER ENTRY LOCATION AND CONNECT TO THE EXISTING WELL. INSTALL NEW PRESSURE SWITCH AND WELL TANK. WELL SYSTEM TO BE INSTALLED & COMMISSIONED BY CERTIFIED WELL TECHNICIAN. WELL TECHNICIAN TO DETERMINE IF SUBMERSIBLE WELL PUMP NEEDS REPLACEMENT.
 3. PROVIDE HEAT PUMP WATER HEATER (HPWH) AND TANK WITH EXPANSION TANK AND HOT WATER RECIRC PUMP (PI) AND HWR PIPING. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 4. PROVIDE CONDENSATE PIPING FROM INDOOR UNITS AND ROUTE TO NEAREST DRAIN.
 5. PROVIDE FIRE EXTINGUISHERS IN JANITOR'S ROOM & KITCHEN.
 6. PROVIDE STORM PIPING, ROUTE AS SHOWN. REFER TO CIVIL DRAWINGS FOR CONNECTION.



1 LEVEL 1 PLUMBING
M101 1:100

- NOTES:**
1. PROVIDE PLUMBING FIXTURES AND ASSOCIATED HW, CW, SANITARY & VENT PIPING, ROUTED AS SHOWN.
 2. PROVIDE CONDENSATE PIPING FROM INDOOR UNITS (U) AND ROUTE TO NEAREST DRAIN.
 3. PROVIDE STORM PIPING FOR ROOF DRAINS, ROUTE AS SHOWN.



2 LEVEL 2 PLUMBING
M101 1:100

No.	Issued	Date	By
1	Issued for 33% Review	2022 07 07	SB

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Seals

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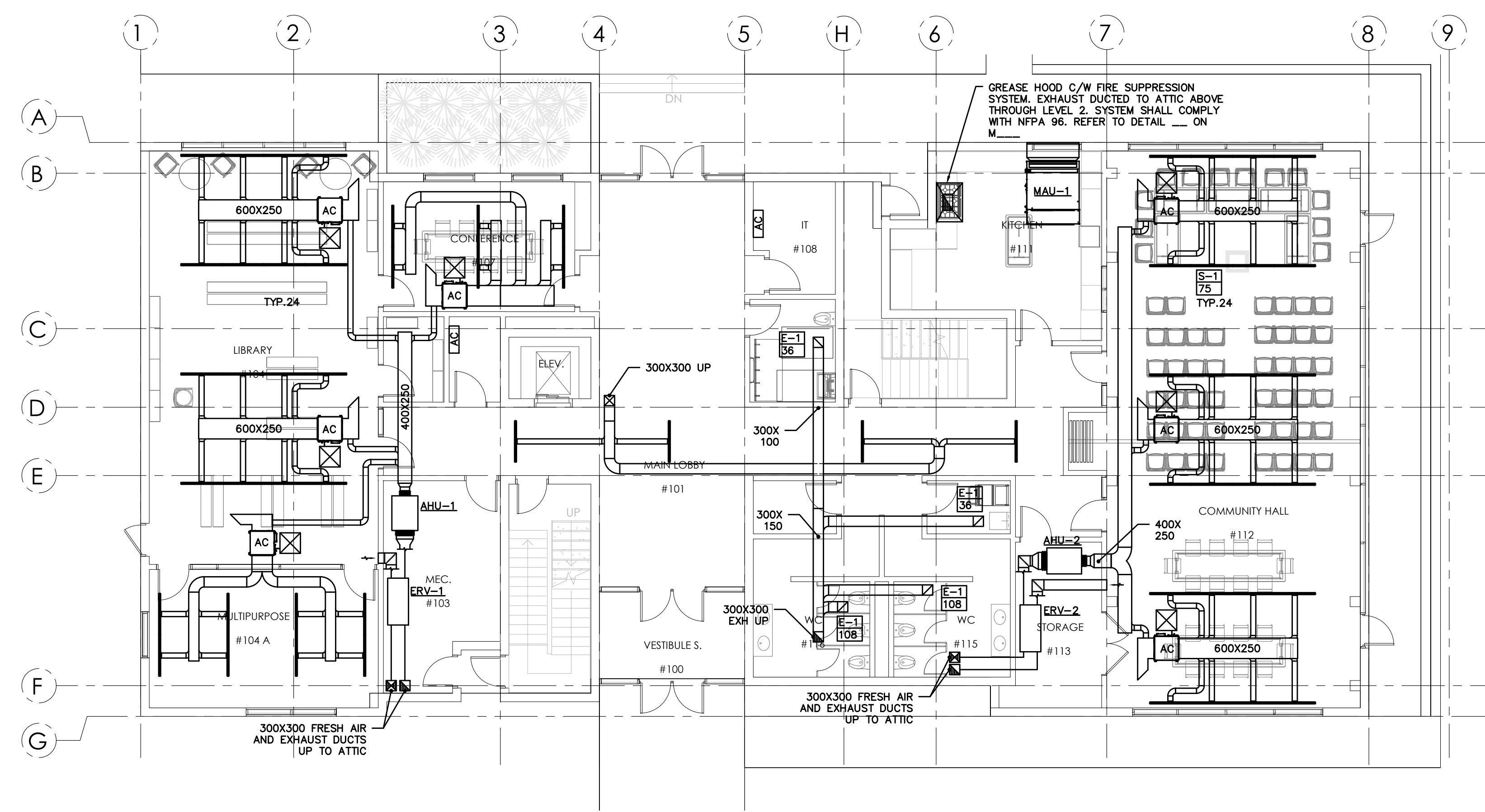
PORTLAND MUNICIPAL HUB

Drawing Title:

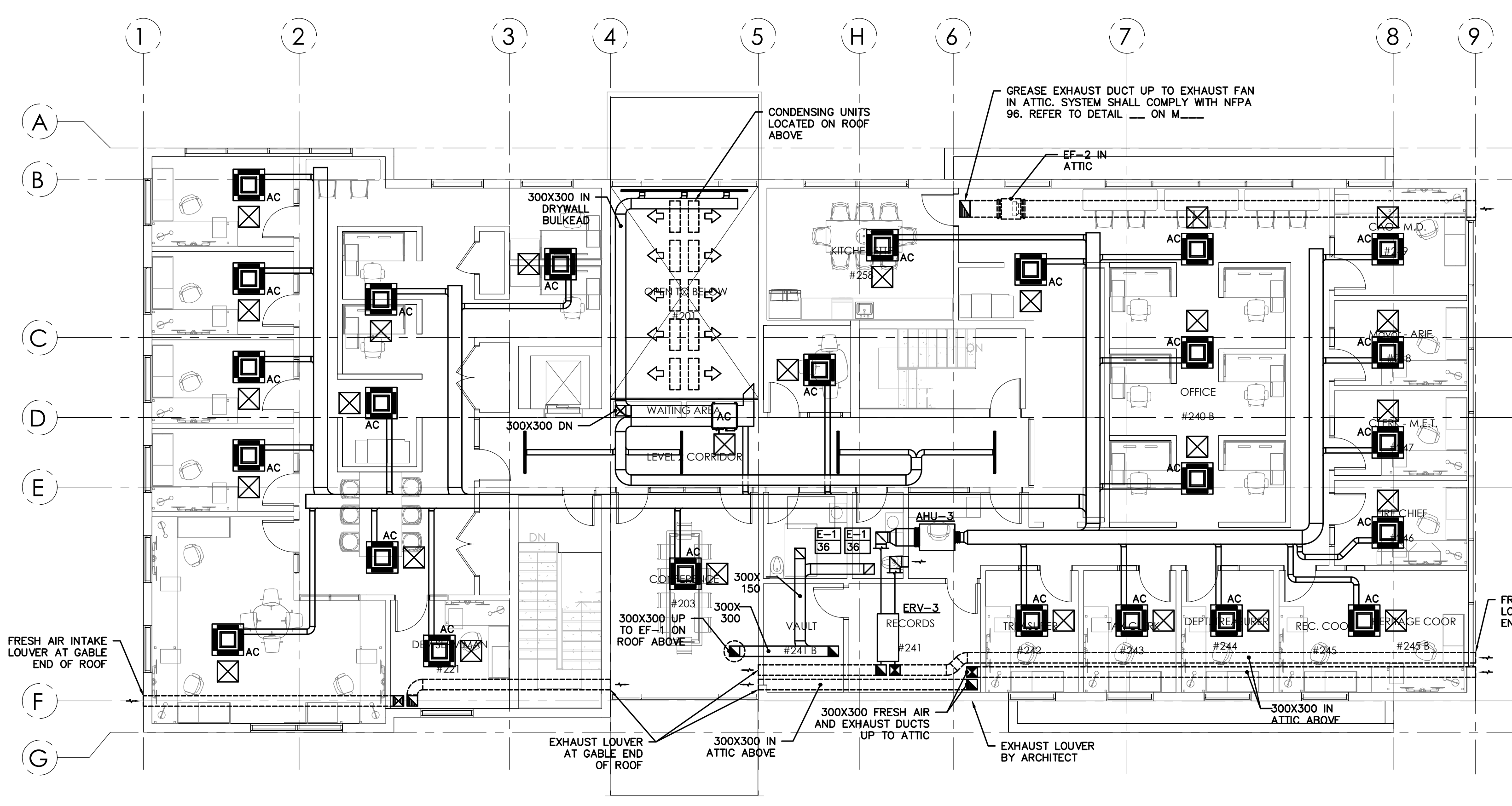
**NEW PLUMBING PLAN -
LEVEL 1 & LEVEL 2**

Drawn By: AW	Checked By: RD
Date: 2022-06-22	Scale:
Project Number: VR-22-073	Drawing No.: M101

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1 LEVEL 1 HVAC
M300 1:100



2 LEVEL 2 HVAC
M300 1:100

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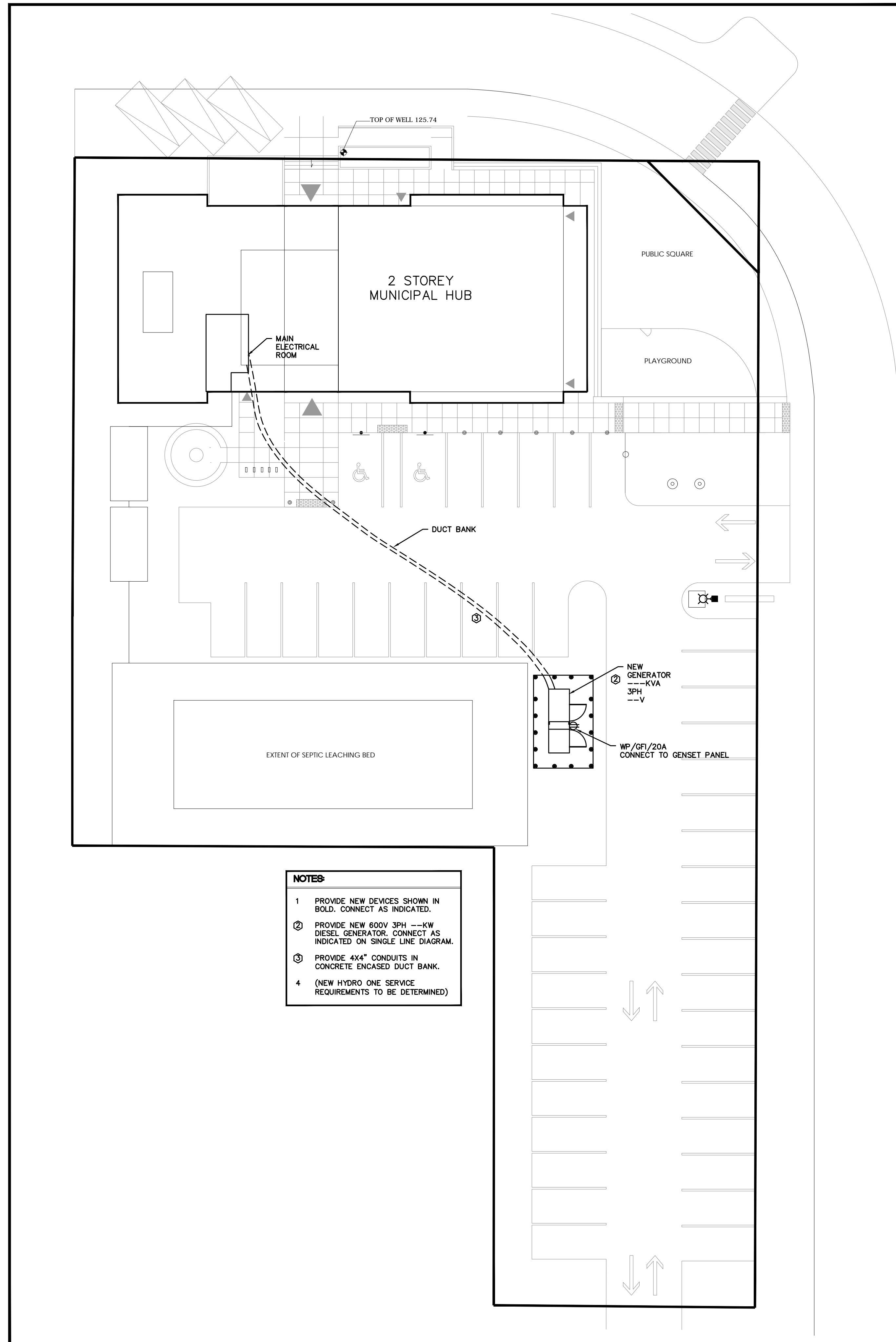
Project:

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Drawing Title:

**NEW HVAC PLAN -
LEVEL 1 & LEVEL 2**

Drawn By: AW	Checked By: RD
Date: 2022-06-22	Scale:
Project Number: VR-22-073	Drawing No.: M300



- NOTES:**
- 1 PROVIDE NEW DEVICES SHOWN IN BOLD. CONNECT AS INDICATED.
 - 2 PROVIDE NEW 600V 3PH ---KW DIESEL GENERATOR. CONNECT AS INDICATED ON SINGLE LINE DIAGRAM.
 - 3 PROVIDE 4x4" CONDUITS IN CONCRETE ENCASED DUCT BANK. (NEW HYDRO ONE SERVICE REQUIREMENTS TO BE DETERMINED)
 - 4

FIXTURE SCHEDULE

NOTES:

1. CONTRACTOR AND FIXTURE SUPPLIER ARE RESPONSIBLE TO PROVIDE ALL PLASTER AND FINISHING FRAMES, MOUNTING HARDWARE, AND ACCESSORIES TO SUIT ARCHITECTURAL CEILING SCHEDULE.
2. CONTRACTOR AND SUPPLIER ARE RESPONSIBLE TO VERIFY NUMBER OF DRIVERS REQUIRED FOR MULTIPLE SWITCHING OF FIXTURES. REFER TO FLOOR PLANS FOR CONFIGURATION OF SWITCHING.
3. MANUFACTURER TO NOTE ON SHOP DRAWINGS THAT DRIVERS, DIMMING SWITCHES AND PHOTOCONTROLLERS ARE ALL COMPATIBLE.

TYPE	DESCRIPTION	LUMENS	MTG HT	Ø
A	TBD	LUMENS LED	---	---
B	TBD	LUMENS LED	---	---
C	TBD	LUMENS LED	---	---
D	TBD	LUMENS LED	---	---
E	TBD	LUMENS LED	---	---
F	TBD	LUMENS LED	---	---

GENERAL NOTES

1. DO NOT SCALE DRAWINGS FOR INSTALLATION PURPOSES. OBTAIN ALL DIMENSIONS FROM ARCHITECTURAL PLANS, MANUFACTURER'S SHOP DRAWINGS, AND ON SITE INSPECTIONS.
2. PRIOR TO INSTALLATION OF BOXES IN WALLS, VERIFY THAT NO INTERFERENCES EXIST. CHECK ARCHITECTURAL PLANS AND ELEVATIONS.
3. MECHANICAL AND ELECTRICAL TRADES SHALL WORK IN CONJUNCTION WITH ONE ANOTHER SO AS TO AVOID INTERFERENCES BETWEEN PIPING, DUCTWORK, CONDUIT, LIGHTING FIXTURES, ETC.
4. REVIEW MECHANICAL AND ARCHITECTURAL DRAWINGS AND PROVIDE ON SITE INSPECTIONS TO DETERMINE FULL EXTENT OF PROJECT PRIOR TO SUBMITTING BID.
5. IN EVERY WIRING INSTALLATION, EACH CONDUCTOR SHALL BE IDENTIFIED WITH A LABEL WHEREVER IT IS TERMINATED.
6. ALL ELECTRICAL PANELS, DISCONNECT SWITCHES, AND TRANSFORMERS REQUIRE ARC FLASH LABELING.
7. ARC FLASH LABELING SHALL AT A MINIMUM STATE AVAILABLE INCIDENT ENERGY OR LEVEL OF PPE REQUIRED (AS PER CAN/ULC Z462).
8. ALL ELECTRICAL PANELS, DISCONNECT SWITCHES, TRANSFORMERS, ETC. SHALL HAVE LAMACOID LABELING.
9. LAMACOID LABELING SHALL CONTAIN THE FOLLOWING:
 - i) FIRST LINE: BUILDING DESIGNATION, TYPE, FLOOR LEVEL, PANEL NUMBER
 - ii) SECOND LINE: FED FROM (NAME UPSTREAM DISTRIBUTION POINT)
 - iii) THIRD LINE: VOLTAGE
 - iv) FOURTH LINE: AMPERAGE
 - v) FIFTH LINE: NUMBER PHASES/WIRES.
14. ALL RECEPTACLES, SWITCHES, AND JUNCTION BOXES SHALL BE LABELED TO INDICATE WHAT PANEL IT IS FED FROM AND WHAT IS THE CIRCUIT NUMBER (EX. EB05 CIR 2,4,6).
15. ALL INSTALLED EQUIPMENT SHALL BE FULLY ACCESSIBLE FOR MAINTENANCE PURPOSES AND SHALL HAVE A MINIMUM OF 1 M WORKING SPACE IN FRONT OF ANY REQUIRED ACCESS DOORS OR PANELS.

ELECTRICAL DRAWING LIST

E000	ELECTRICAL DRAWING LIST, LEGEND, NOTES AND SITE PLAN
E100	NEW LIGHTING PLANS - LEVEL 1 AND LEVEL 2
E200	NEW POWER AND SYSTEMS PLANS - LEVEL 1 AND LEVEL 2
E201	NEW ELECTRICAL ROOF PLAN
E300	NEW SINGLE LINE DIAGRAM AND ELECTRICAL ROOM DETAIL
E400	PANEL SCHEDULES
E500	ELECTRICAL DETAILS

LEGEND

THIS LEGEND OF SYMBOLS REPRESENTS VANDERWESTEN RUTHERFORD ASSOCIATES INC. STANDARD/Generic LEGEND. ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

SYMBOL	DESCRIPTION	MTG HT	Ø
[Symbol]	LIGHTING FIXTURE	AS NOTED	
[Symbol]	TRACK LIGHTING WITH QUANTITY OF FIXTURES SHOWN	AS NOTED	
[Symbol]	DOWNLIGHTING FIXTURE	AS NOTED	
[Symbol]	DIRECTIONAL/AIMED LIGHTING FIXTURE	AS NOTED	
[Symbol]	WALL MOUNTED LIGHTING FIXTURE	AS NOTED	
[Symbol]	POLE MOUNTED LIGHTING FIXTURE	AS NOTED	
[Symbol]	CROSS-HATCHED OR SHADED LIGHTING FIXTURE SHALL INDICATE CONNECTED TO EMERGENCY (ESSENTIAL) POWER		
[Symbol]	15A, 125V SINGLE POLE SWITCH, \$ ₂ (TWO POLE), \$ ₃ (3-WAY), \$ ₄ (4-WAY), \$ ₅ (KEY OPERATED), \$ ₆ (DIMMER), \$ ₇ (C/W PILOT LIGHT), \$ ₈ (LOW VOLTAGE), \$ ₉ (TIMER), \$ ₁₀ (OCCUPANCY SENSOR SWITCH)	1100 (43")	
[Symbol]	\$ (SINGLE GANG), \$ (DOUBLE GANG), \$ (TRIPLE GANG), \$ (FOUR GANG), \$ (FIVE GANG), \$ (SIX GANG)		
[Symbol]	OCCUPANCY DUAL TECHNOLOGY SENSOR	CEILING	
[Symbol]	EXIT SIGN	WALL OR CEILING	
[Symbol]	SINGLE SIDED EXIT SIGN	AS NOTED	
[Symbol]	DOUBLE SIDED EXIT SIGN	AS NOTED	
[Symbol]	EXIT SIGN - DIRECTIONAL ARROW		
[Symbol]	EXIT SIGN - DIRECTIONAL ARROW		
[Symbol]	EMERGENCY LIGHTING BATTERY UNIT C/W RECEPTACLE	(*)	
[Symbol]	SINGLE HEAD REMOTE EMERGENCY LIGHT	(*)	
[Symbol]	DOUBLE HEAD REMOTE EMERGENCY LIGHT	(*)	
[Symbol]	20AMP 125VOLT U-GROUND DUPLEX RECEPTACLE	457 (18")	
[Symbol]	OCCUPANCY DUAL TECHNOLOGY SENSOR	WALL OR CEILING	
[Symbol]	20AMP 125VOLT U-GROUND QUAD RECEPTACLE	457 (18")	
[Symbol]	50AMP 250VOLT 1PHASE 4WIRE RANGE OUTLET	127 (5")	
[Symbol]	DIRECT CONNECTION (REFER TO DRAWINGS)	AS NOTED	
[Symbol]	ELECTRICAL PANEL	1981 (78") TO TOP	
[Symbol]	MOTOR CONNECTION (SINGLE OR THREE PHASE)		
[Symbol]	MOTOR/DISCONNECT CONNECTION (SINGLE OR THREE PHASE)		
[Symbol]	DISCONNECT SWITCH	1270 (50")	
[Symbol]	SINGLE PUSHBUTTON STATION	1040 (41")	
[Symbol]	TELEPHONE OUTLET C/W 3/4" (19mm) CONDUIT TO ACCESSIBLE CORRIDOR CEILING SPACE OR CABLE TRAY	457 (18")	
[Symbol]	VOICE/DATA OUTLET C/W 3/4" (19mm) CONDUIT TO ACCESSIBLE CORRIDOR CEILING SPACE OR CABLE TRAY	457 (18")	
[Symbol]	DATA OUTLET C/W 3/4" (19mm) CONDUIT TO ACCESSIBLE CORRIDOR CEILING SPACE OR CABLE TRAY	457 (18")	
[Symbol]	CABLE TRAY		
[Symbol]	FIRE ALARM BELL (150mm DIAMETER UNLESS OTHERWISE NOTED)	2290 (90")	
[Symbol]	FIRE ALARM HORN	2290 (90")	
[Symbol]	FIRE ALARM PULLSTATION	1200 (47")	
[Symbol]	HEAT DETECTOR - RATE OF RISE & FIXED TEMP	CEILING	
[Symbol]	SMOKE DETECTOR	CEILING	
[Symbol]	FIRE ALARM STROBE LIGHT	2290 (90")	
[Symbol]	FIRE FIGHTER'S HANDSET	1473 (58")	
[Symbol]	WALL MOUNTED SPEAKER		
[Symbol]	MAGNETIC DOOR LOCK		
LV	LOW VOLTAGE		
CL	CEILING MOUNTED		
FR	FRIDGE		
GF	GROUND FAULT INTERRUPTING		
MW	MICROWAVE		
OC	OVER COUNTER		
OC/GF	OVER COUNTER/GROUND FAULT INTERRUPTING		

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No.	Issued	Date	By
1	Issued for 33% Review	2022 07 07	SB



Seals

Project:

PORTLAND MUNICIPAL HUB

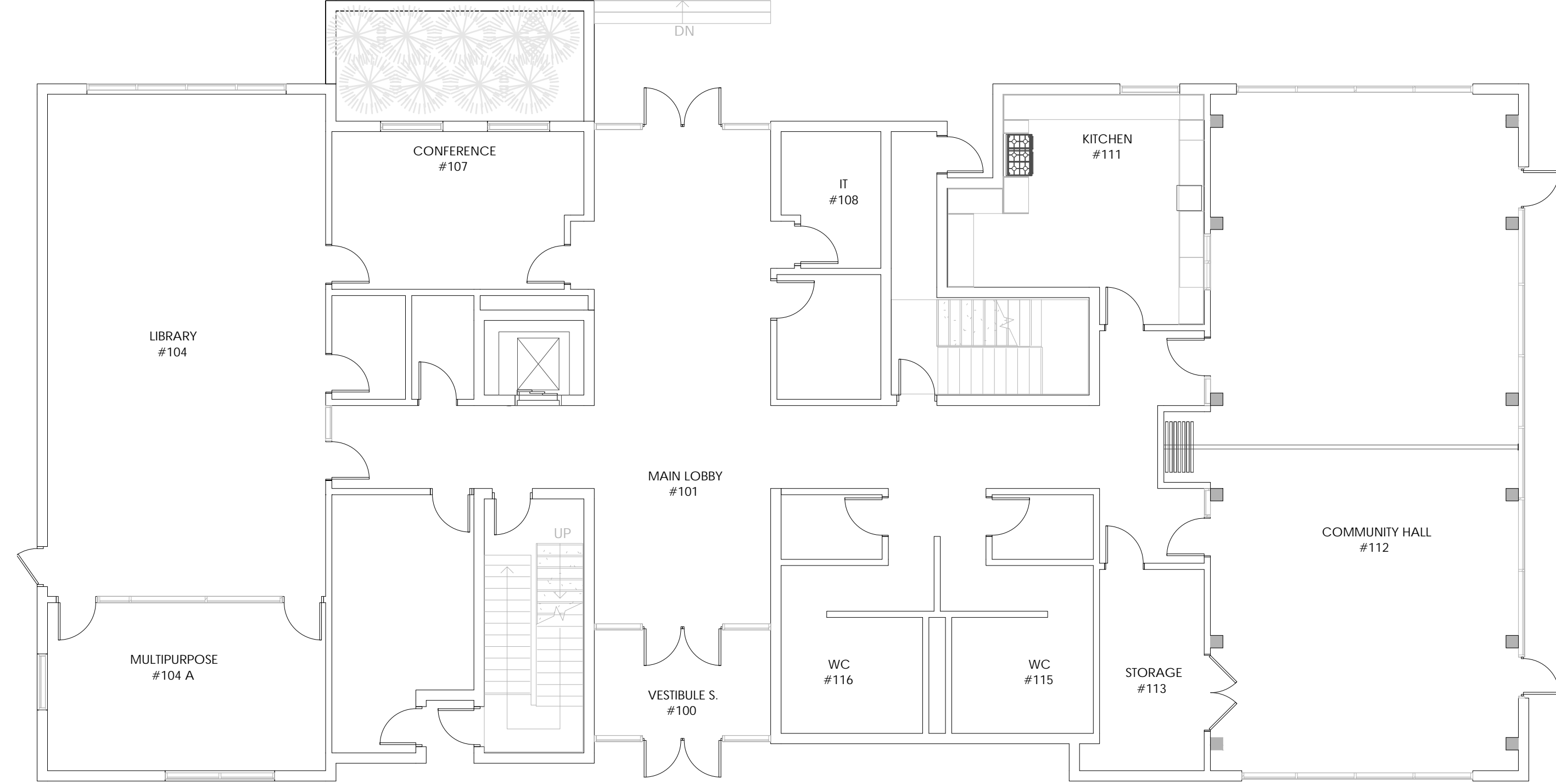
Drawing Title:

ELECTRICAL DRAWING LIST, LEGEND NOTES AND SCHEDULES

Drawn By:	Checked By:
AK	AF
Date:	Scale:
2022-06-22	
Project Number:	Drawing No.:
VR-22-073	E000

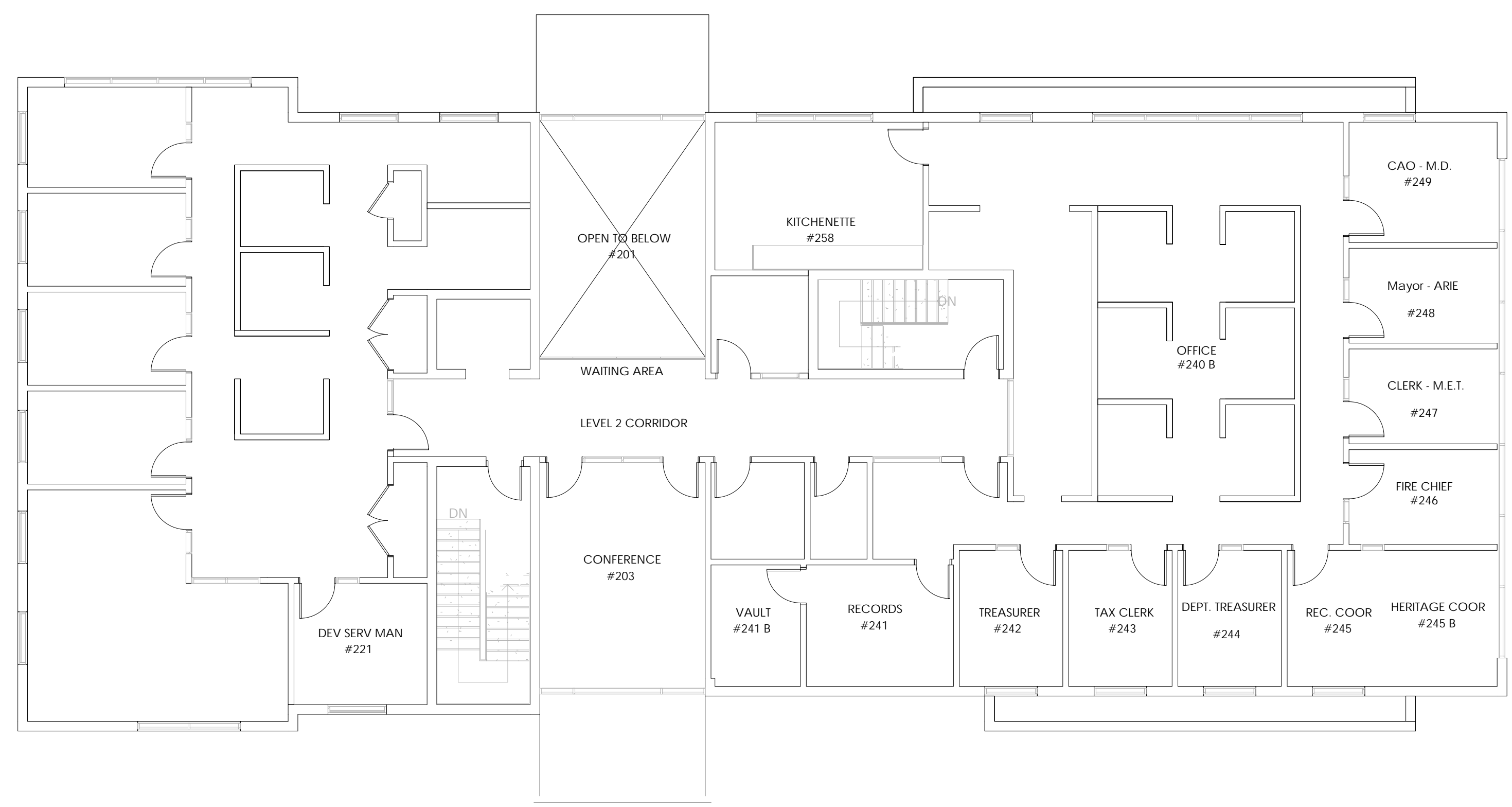
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NEW LIGHTING NOTES:
 1. PROVIDE NEW LIGHTING AND SWITCHES SHOWN IN BOLD. CONNECT AS INDICATED.



1 LIGHTING PLAN – LEVEL 1
 E100 1:100

NEW LIGHTING NOTES:
 1. PROVIDE NEW LIGHTING AND SWITCHES SHOWN IN BOLD. CONNECT AS INDICATED.



2 LIGHTING PLAN – LEVEL 2
 E100 1:100

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Project:

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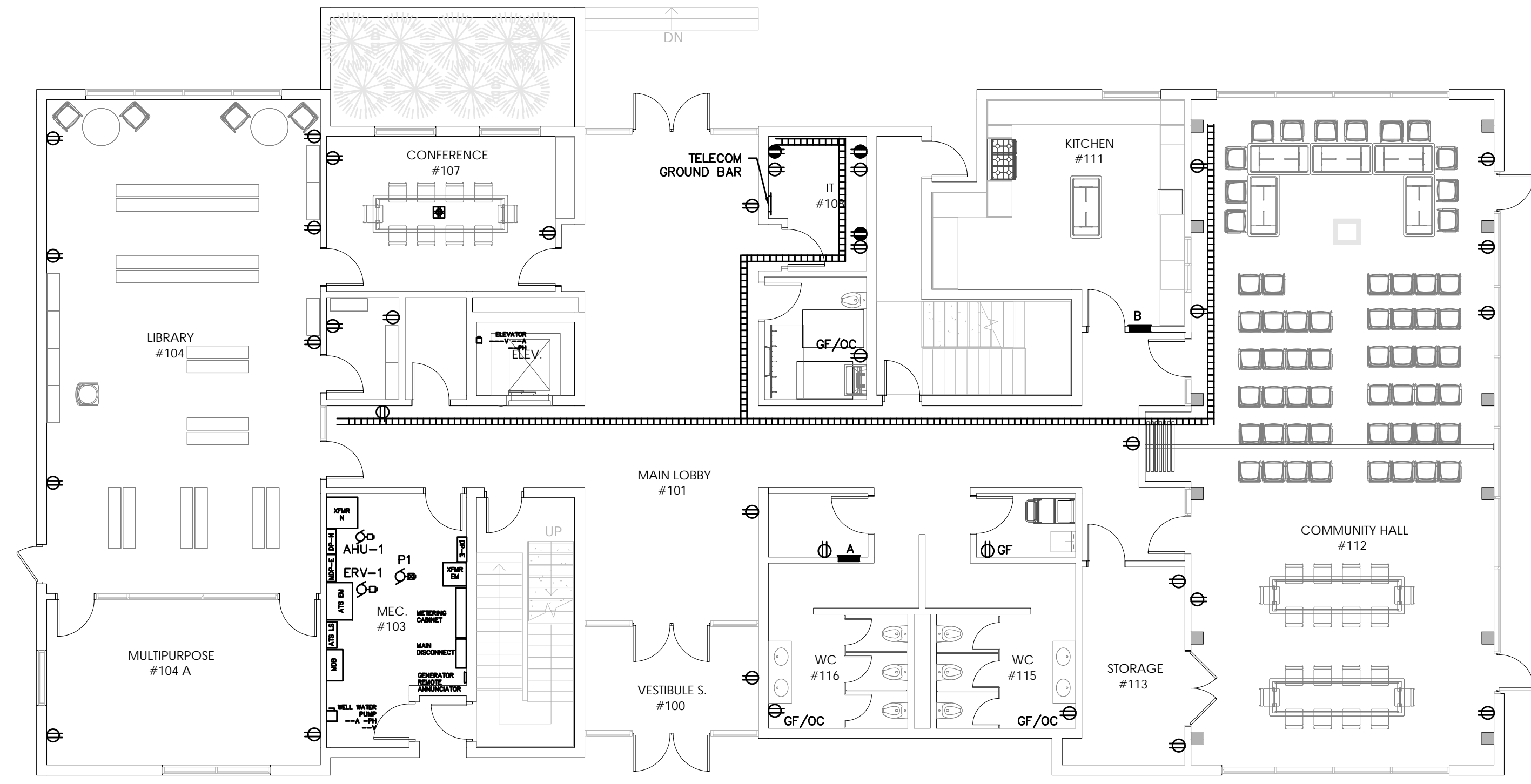
Drawing Title:
NEW LIGHTING PLANS - LEVEL 1 AND LEVEL 2

Drawn By: AK	Checked By: AF
Date: 2022-06-22	Scale: 1:100
Project Number: VR-22-073	Drawing No.: E100

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NEW POWER NOTES:

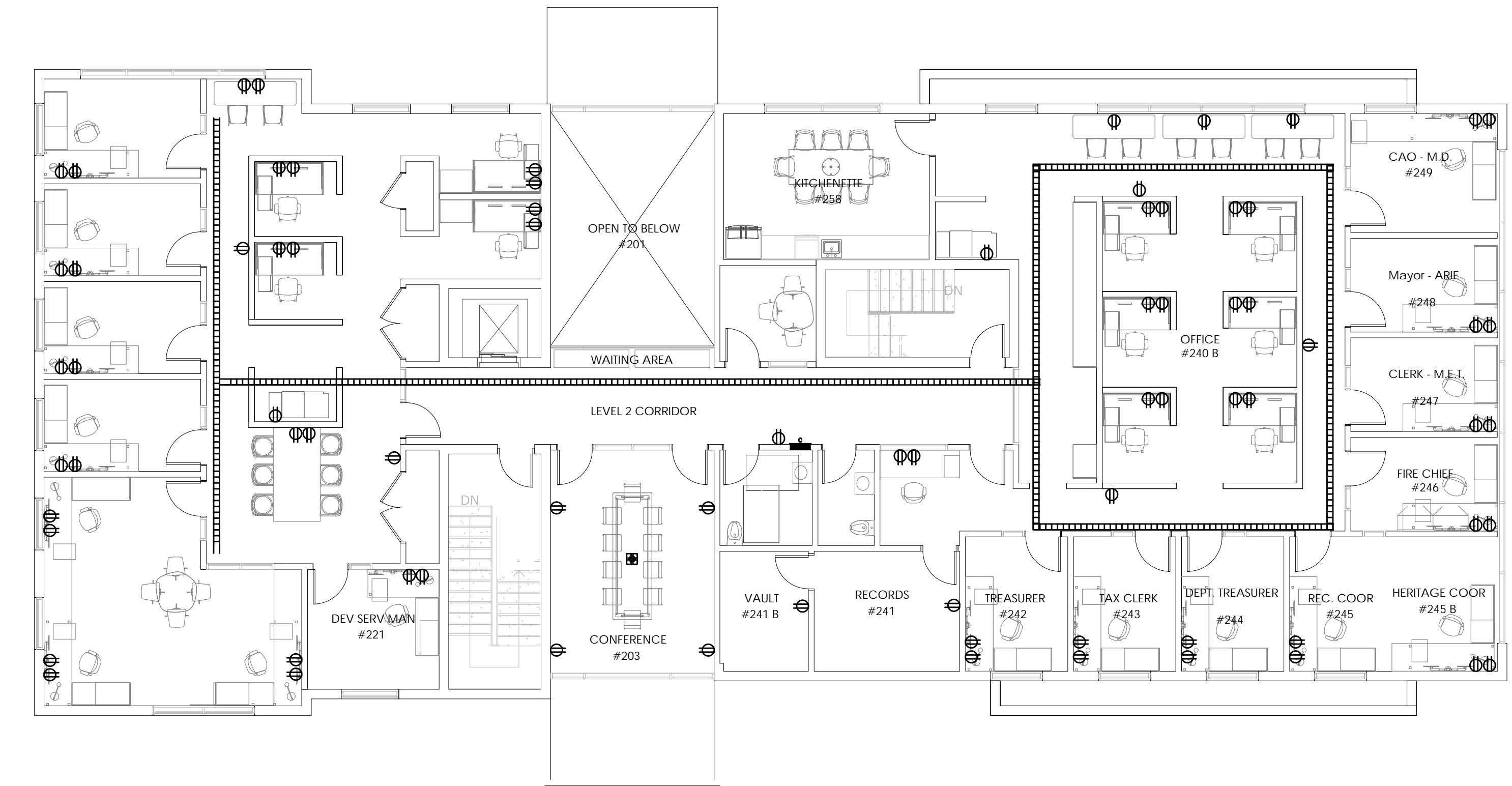
1. PROVIDE NEW DEVICES SHOWN IN BOLD. CONNECT AS INDICATED.
2. CONNECT NEW EQUIPMENT AS INDICATED.



1 POWER AND SYSTEMS PLAN - LEVEL 1
E200 1:100

NEW POWER NOTES:

1. PROVIDE NEW DEVICES SHOWN IN BOLD. CONNECT AS INDICATED.
2. CONNECT NEW EQUIPMENT AS INDICATED.



2 POWER AND SYSTEMS PLAN - LEVEL 2
E200 1:100

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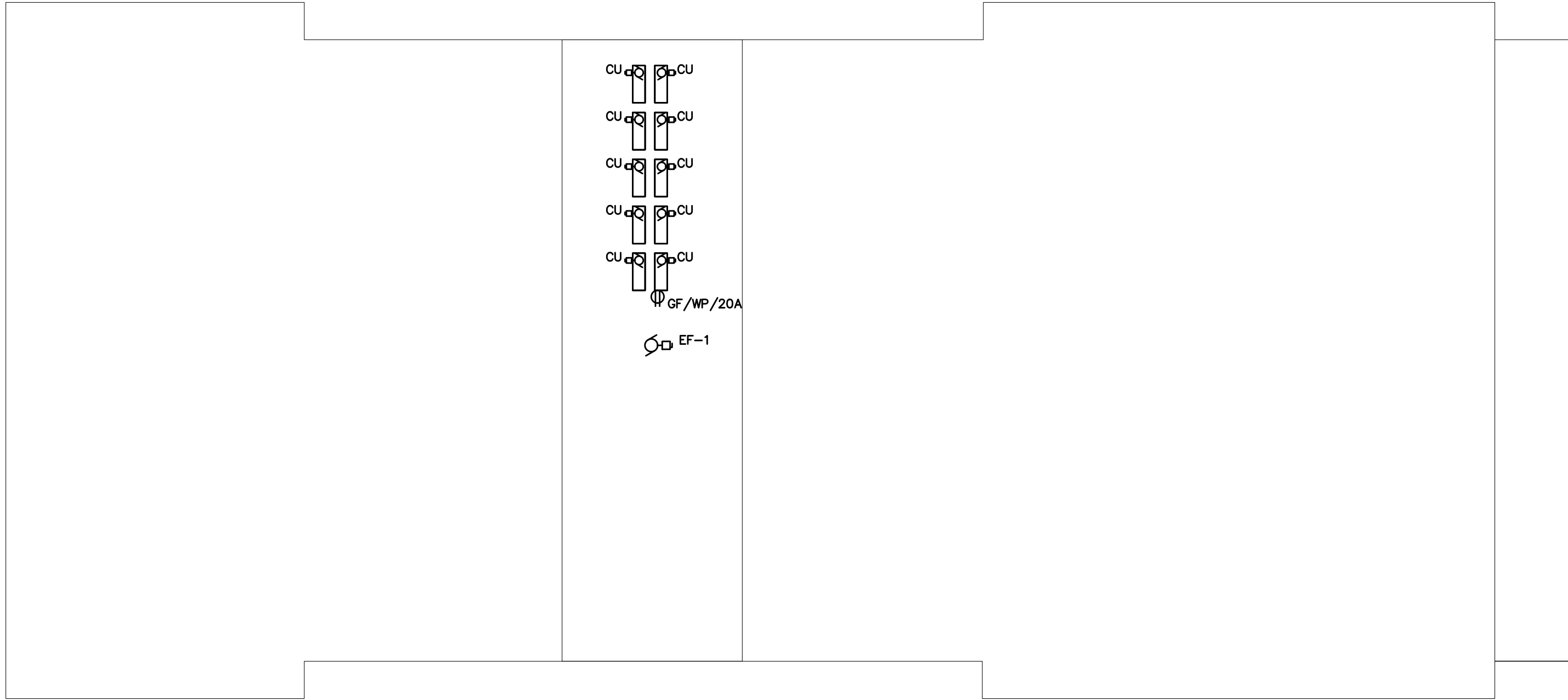
Drawing Title:
NEW POWER AND SYSTEMS PLANS - LEVEL 1 AND LEVEL 2

Drawn By: AK	Checked By: AF
Date: 2022-06-22	Scale: 1:100
Project Number: VR-22-073	Drawing No.: E200

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NEW POWER NOTES:

- 1. PROVIDE NEW DEVICES SHOWN IN BOLD. CONNECT AS INDICATED.
- 2. CONNECT NEW EQUIPMENT AS INDICATED.



1 ELECTRICAL – ROOF PLAN
E201 1:100

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Seals

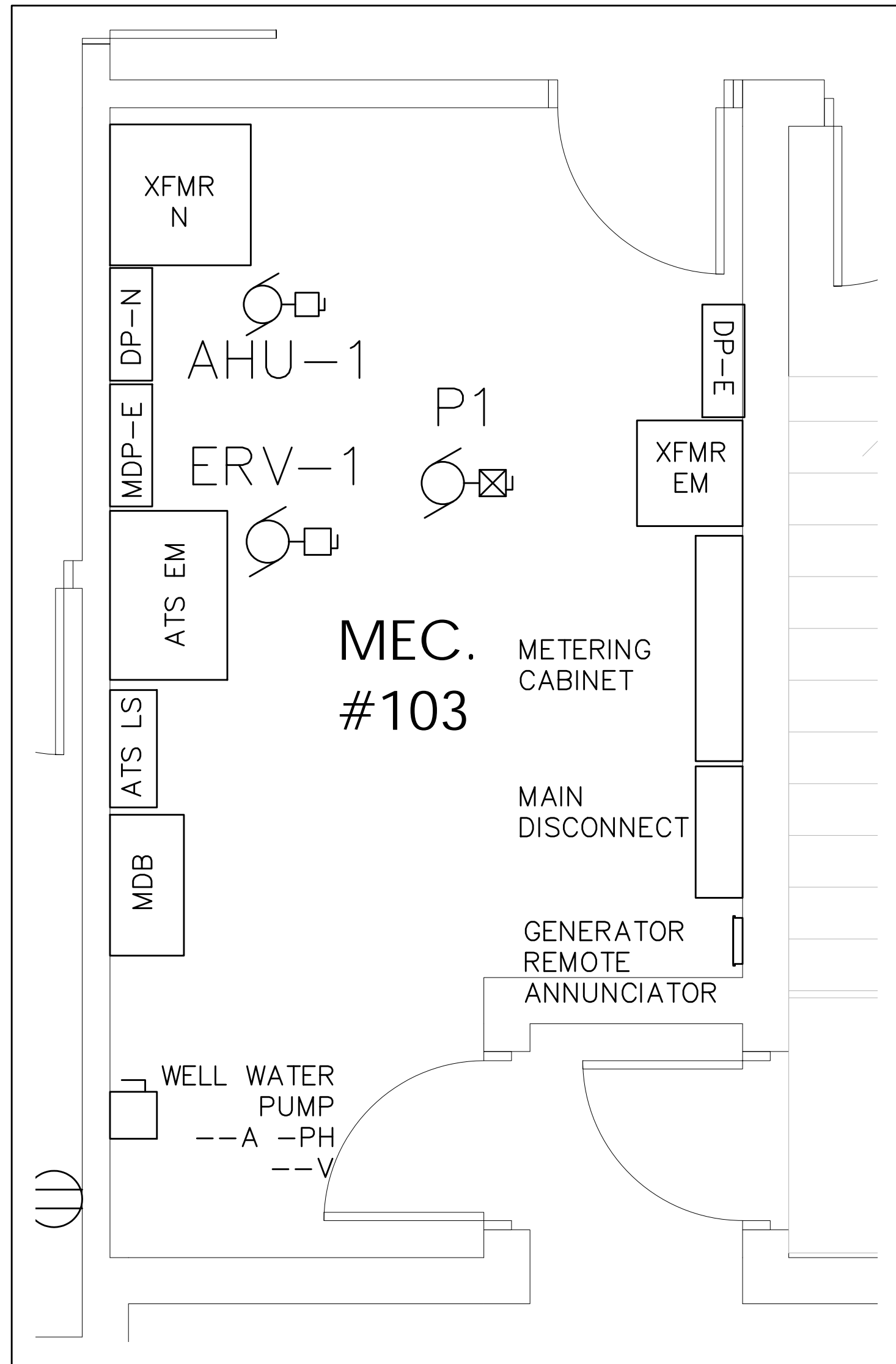
Project:

PORTLAND MUNICIPAL HUB

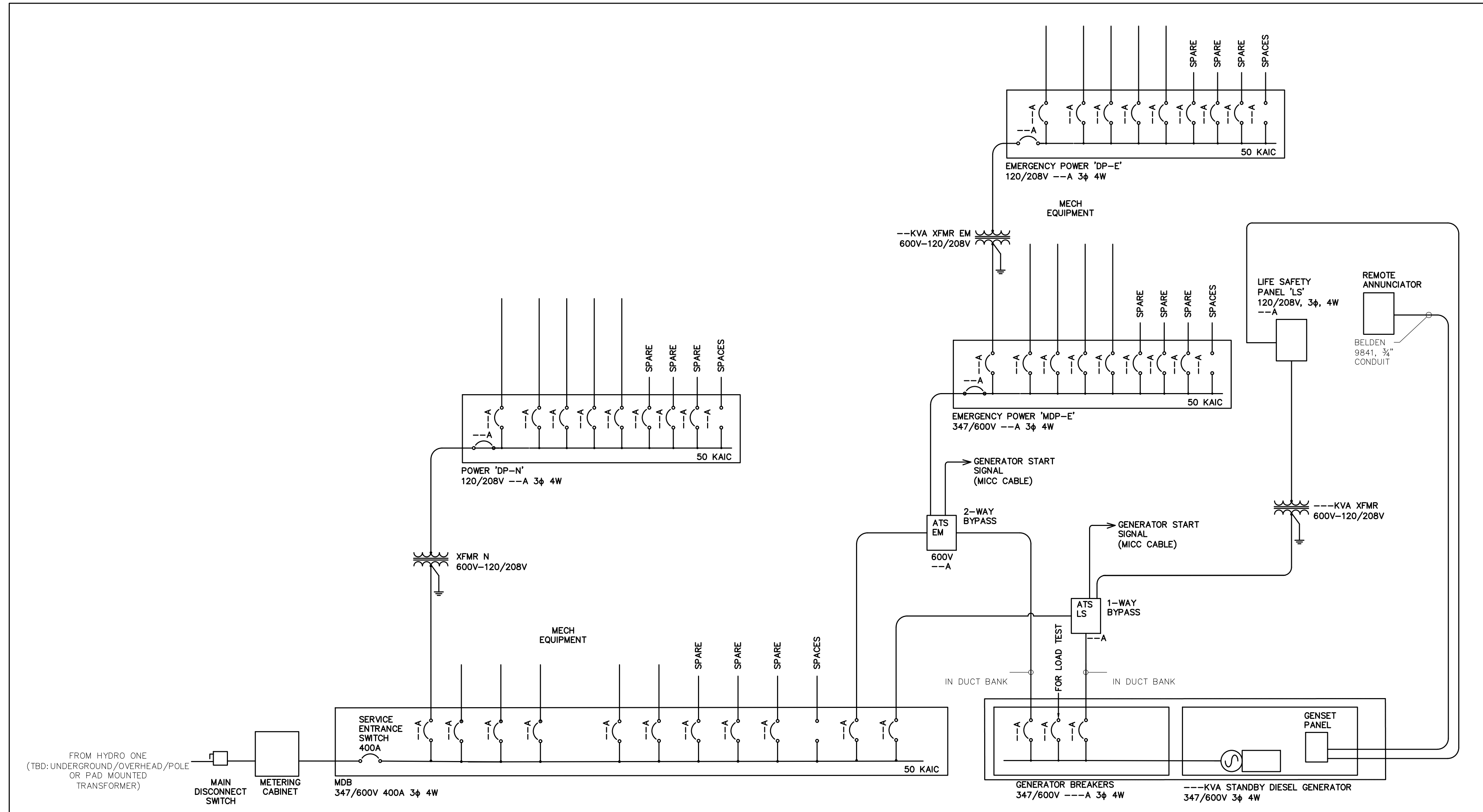
Drawing Title:

NEW ELECTRICAL ROOF PLAN

Drawn By: AK	Checked By: AF
Date: 2022-06-22	Scale: 1:100
Project Number: VR-22-073	Drawing No.: E201



1 ELECTRICAL ROOM DETAIL
E300 1:25



2 ELECTRICAL SINGLE LINE DIAGRAM
E300 NTS

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Seals

Project:

PORTLAND MUNICIPAL HUB

Drawing Title:
NEW SINGLE LINE DIAGRAM AND ELECTRICAL ROOM DETAIL

Drawn By: AK	Checked By: AF
Date: 2022-06-22	Scale: AS SHOWN
Project Number: VR-22-073	Drawing No.: E300

NEW PANEL

225AMP 120/240V 1Ø 3W
200A MAIN BREAKER

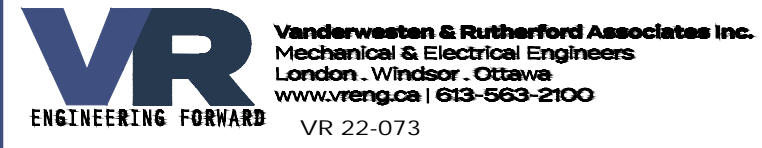
SURFACE
TYPE:WOOD

WATTS FOR	P	AMP	OCT	AMP	P	FOR	WATTS
* SPACE	1	15	1	2	*	SPACE	*
* SPACE	*	3	4	*	SPACE	*	
* SPACE	*	5	6	*	SPACE	*	
* SPACE	*	7	8	*	SPACE	*	
* SPACE	*	9	10	*	SPACE	*	
* SPACE	*	11	12	*	SPACE	*	
* SPACE	*	13	14	*	SPACE	*	
* SPACE	*	15	16	*	SPACE	*	
* SPACE	*	17	18	*	SPACE	*	
* SPACE	*	19	20	*	SPACE	*	
* SPACE	*	21	22	*	SPACE	*	
* SPACE	*	23	24	*	SPACE	*	
* SPACE	*	25	26	*	SPACE	*	
* SPACE	*	27	28	*	SPACE	*	
* SPACE	*	29	30	*	SPACE	*	
* SPACE	*	31	32	*	SPACE	*	
* SPACE	*	33	34	*	SPACE	*	
* SPACE	*	35	36	*	SPACE	*	
* SPACE	*	37	38	*	SPACE	*	
* SPACE	*	39	40	*	SPACE	*	
* SPACE	*	41	42	*	SPACE	*	
* SPACE	*	43	44	*	SPACE	*	
* SPACE	*	45	46	*	SPACE	*	
* SPACE	*	47	48	*	SPACE	*	
* SPACE	*	49	50	*	SPACE	*	
* SPACE	*	51	52	*	SPACE	*	
* SPACE	*	53	54	*	SPACE	*	
* SPACE	*	55	56	*	SPACE	*	
* SPACE	*	57	58	*	SPACE	*	
* SPACE	*	59	60	*	SPACE	*	

TOTAL CONNECTED LOAD = *** KW

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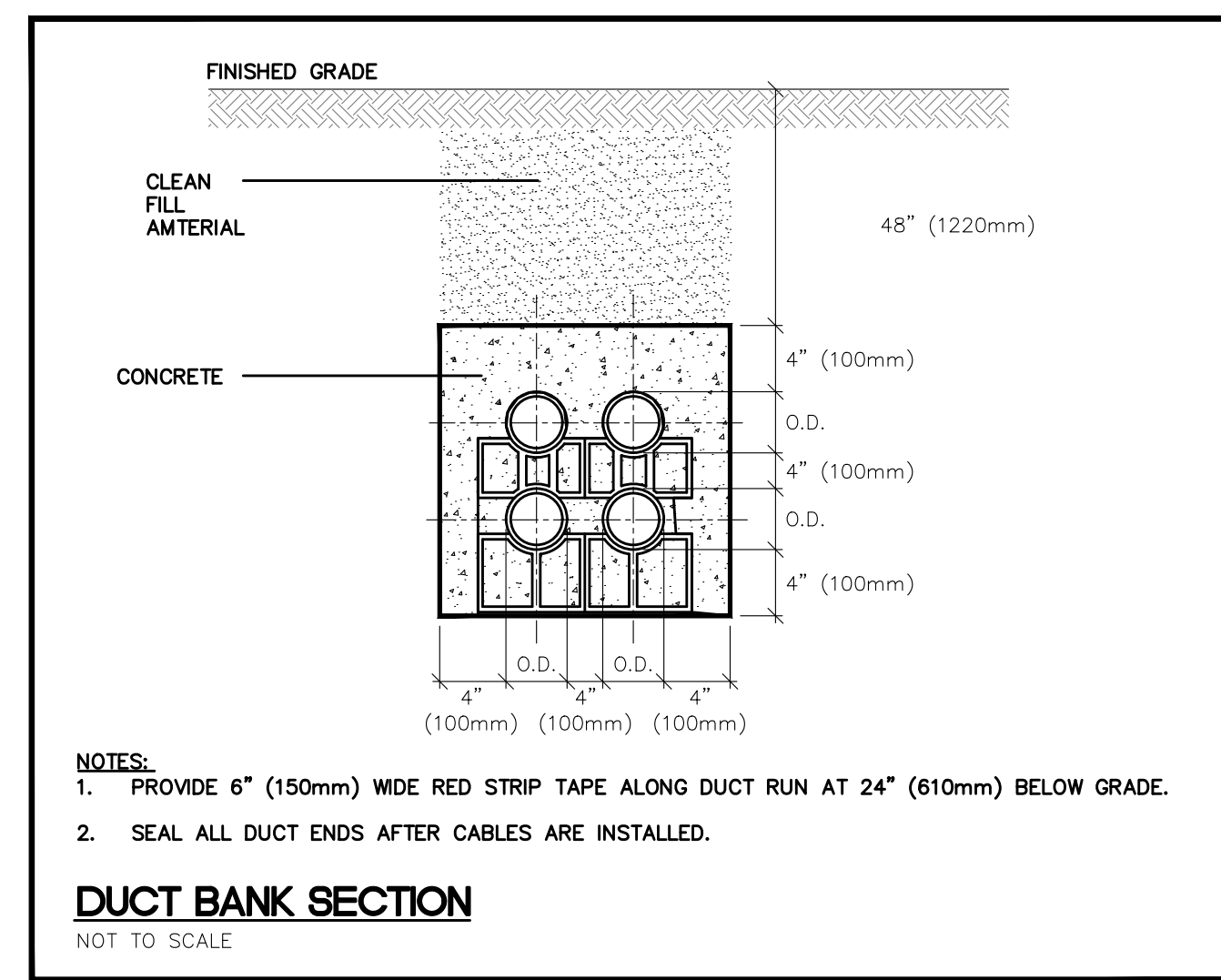
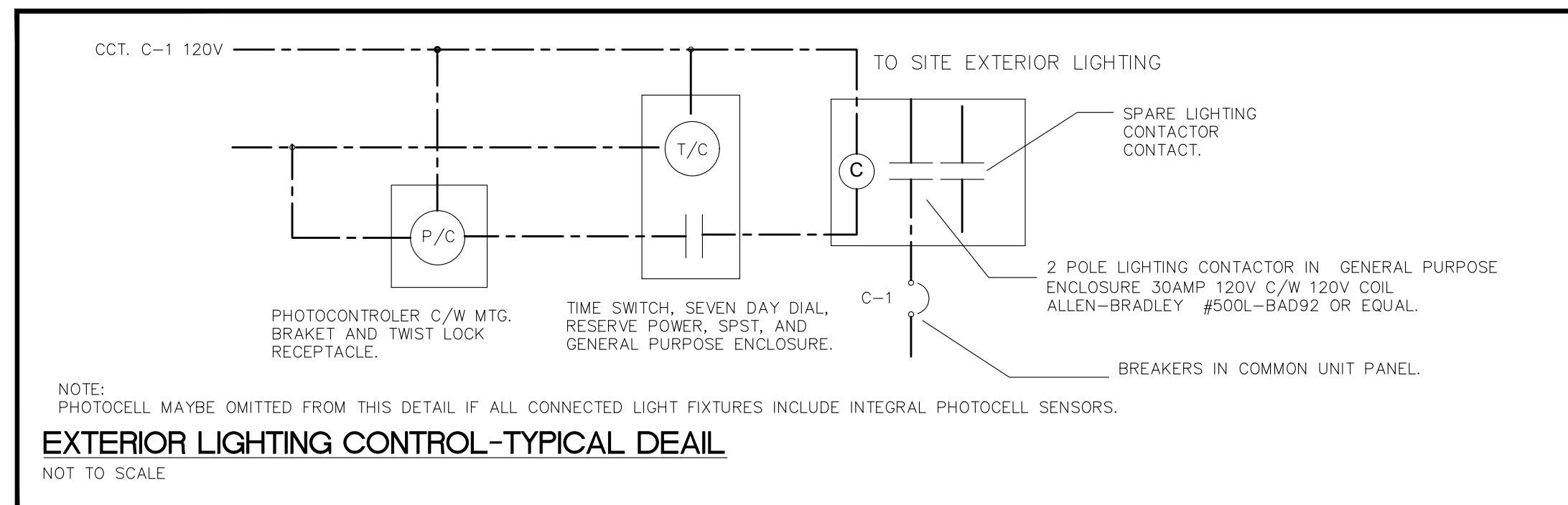
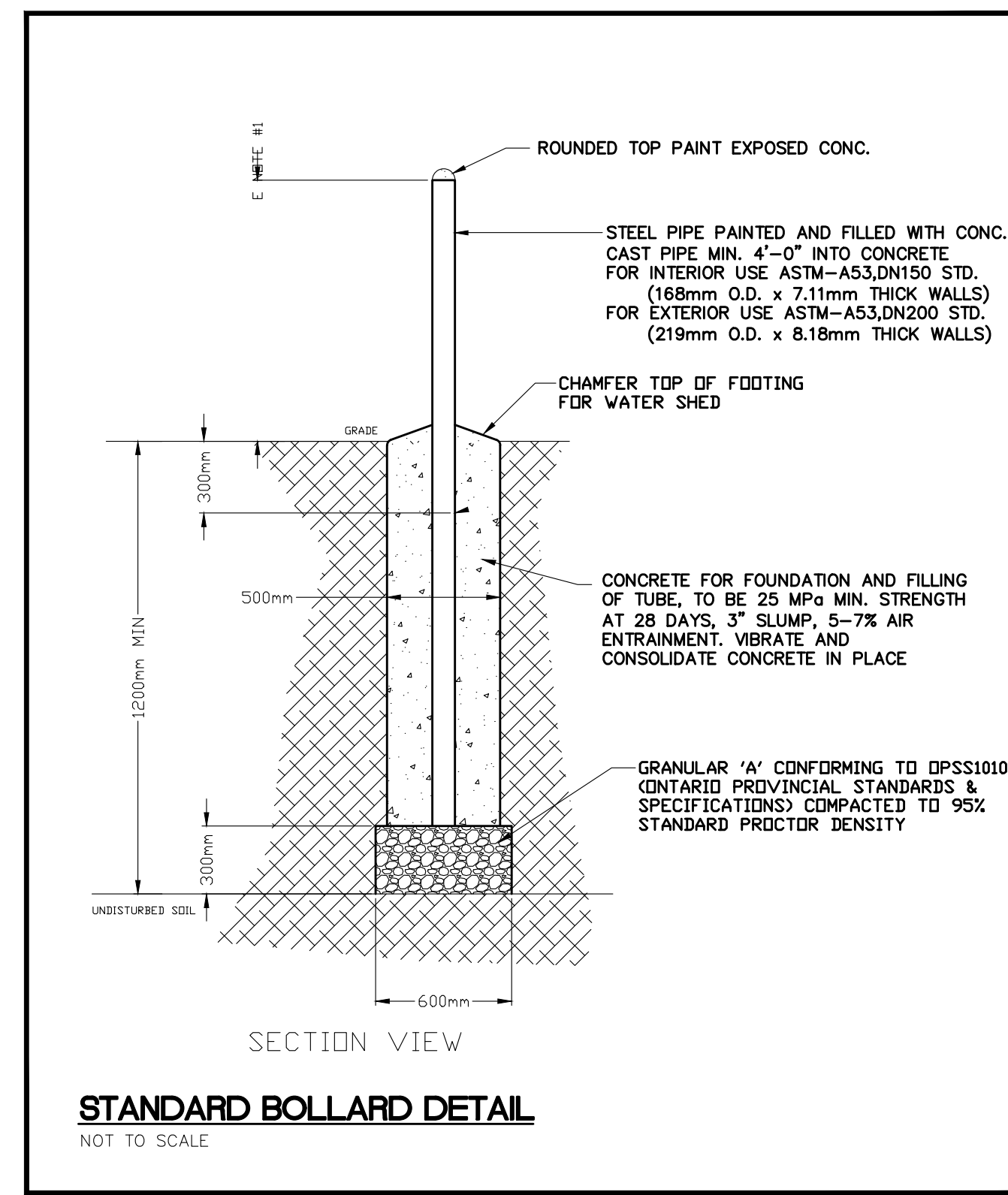
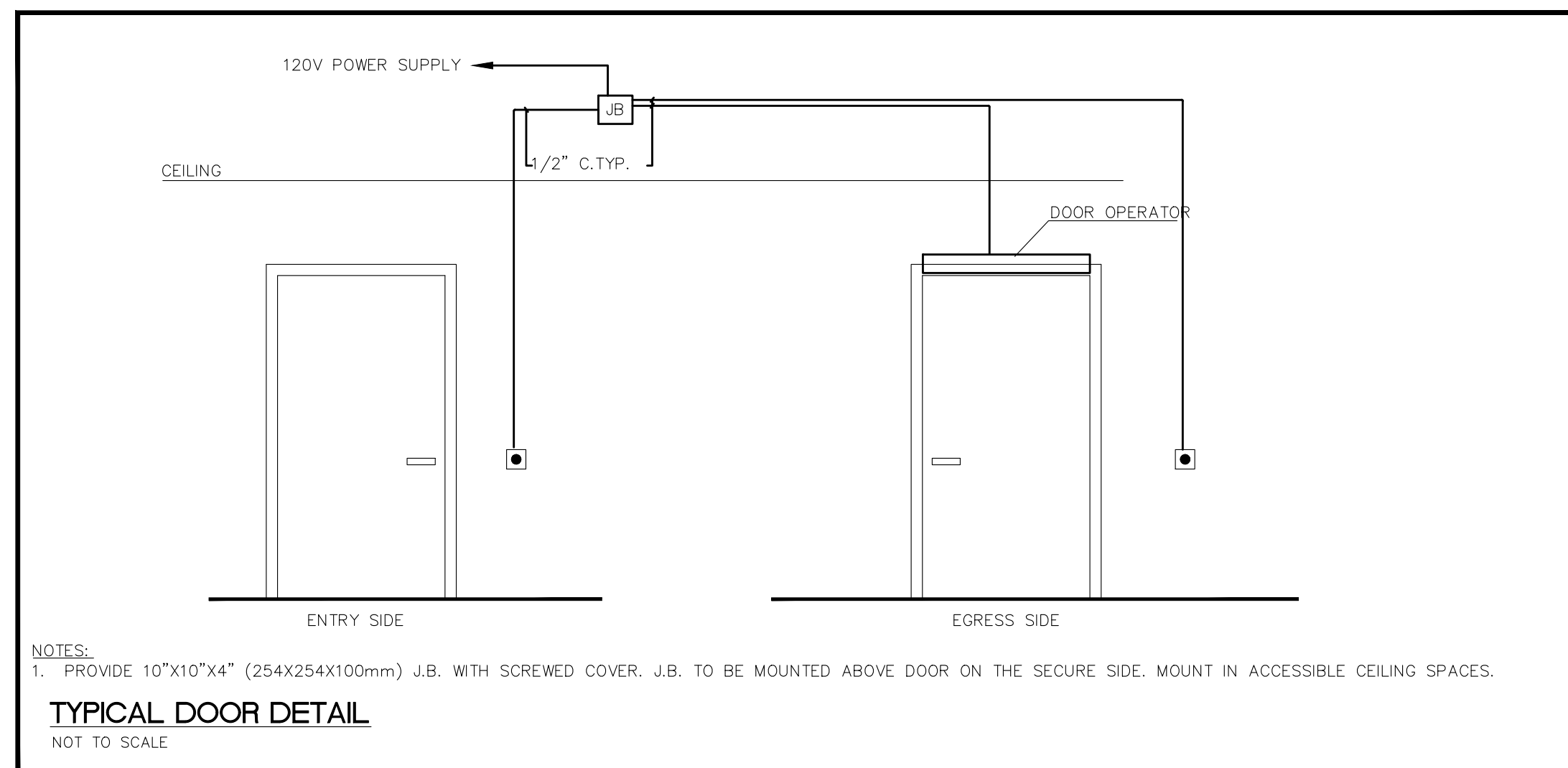
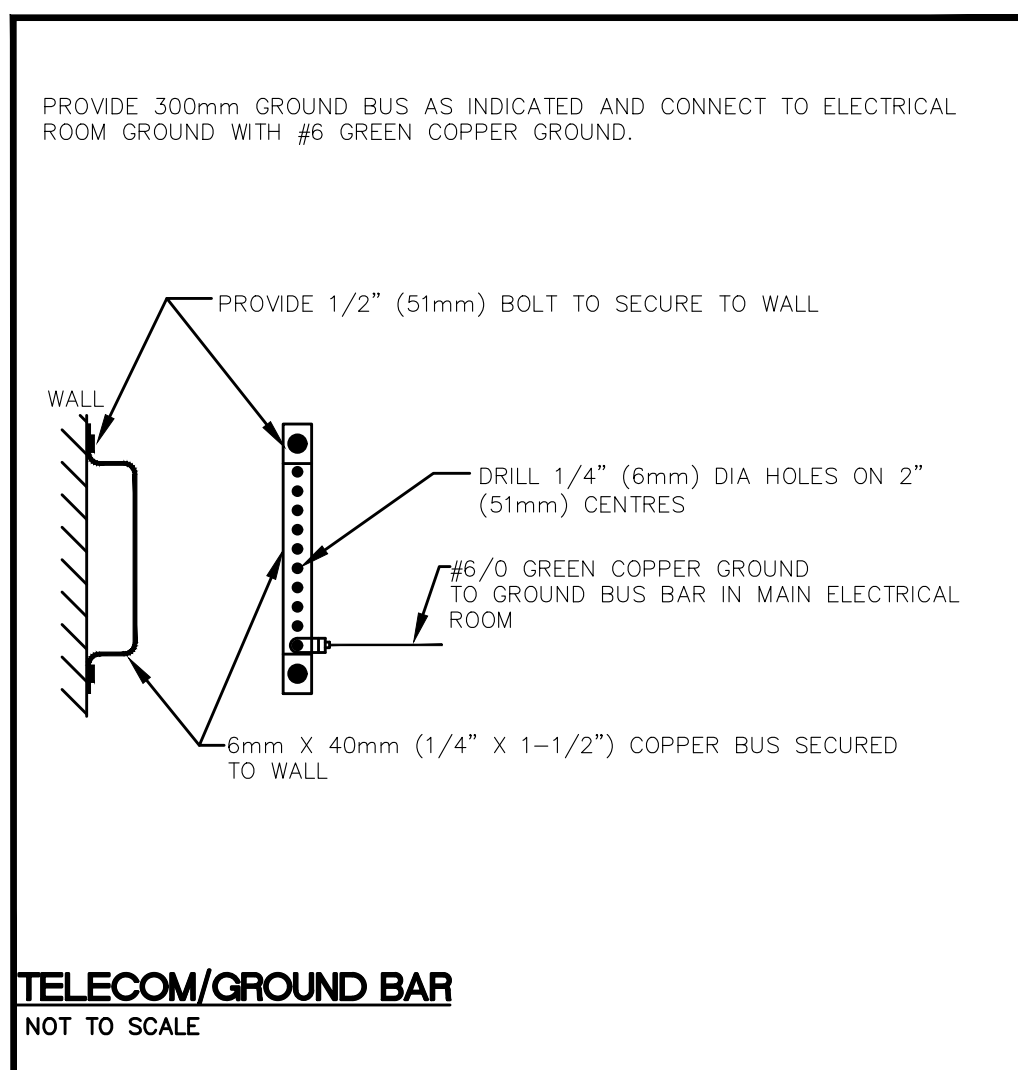
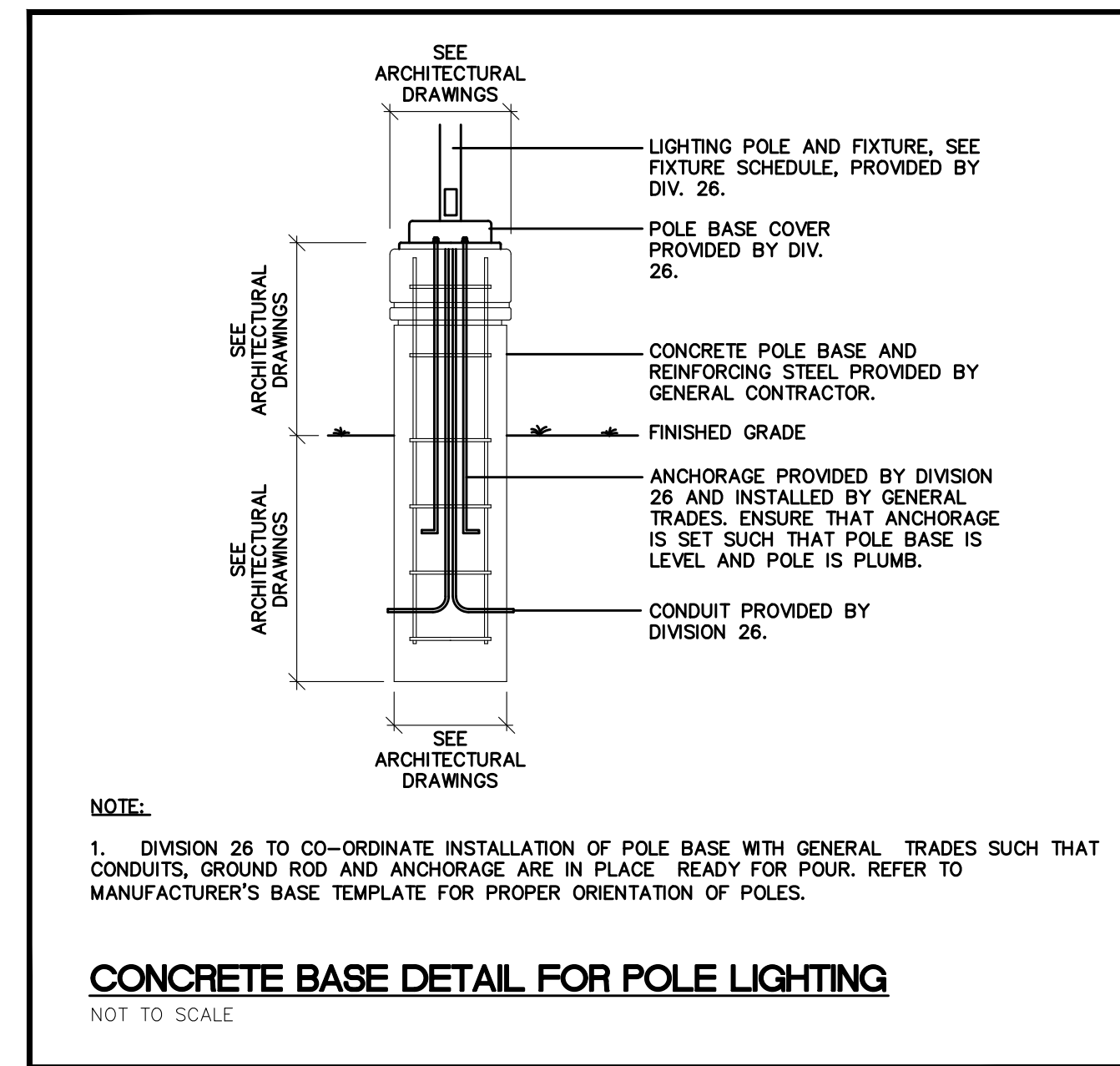
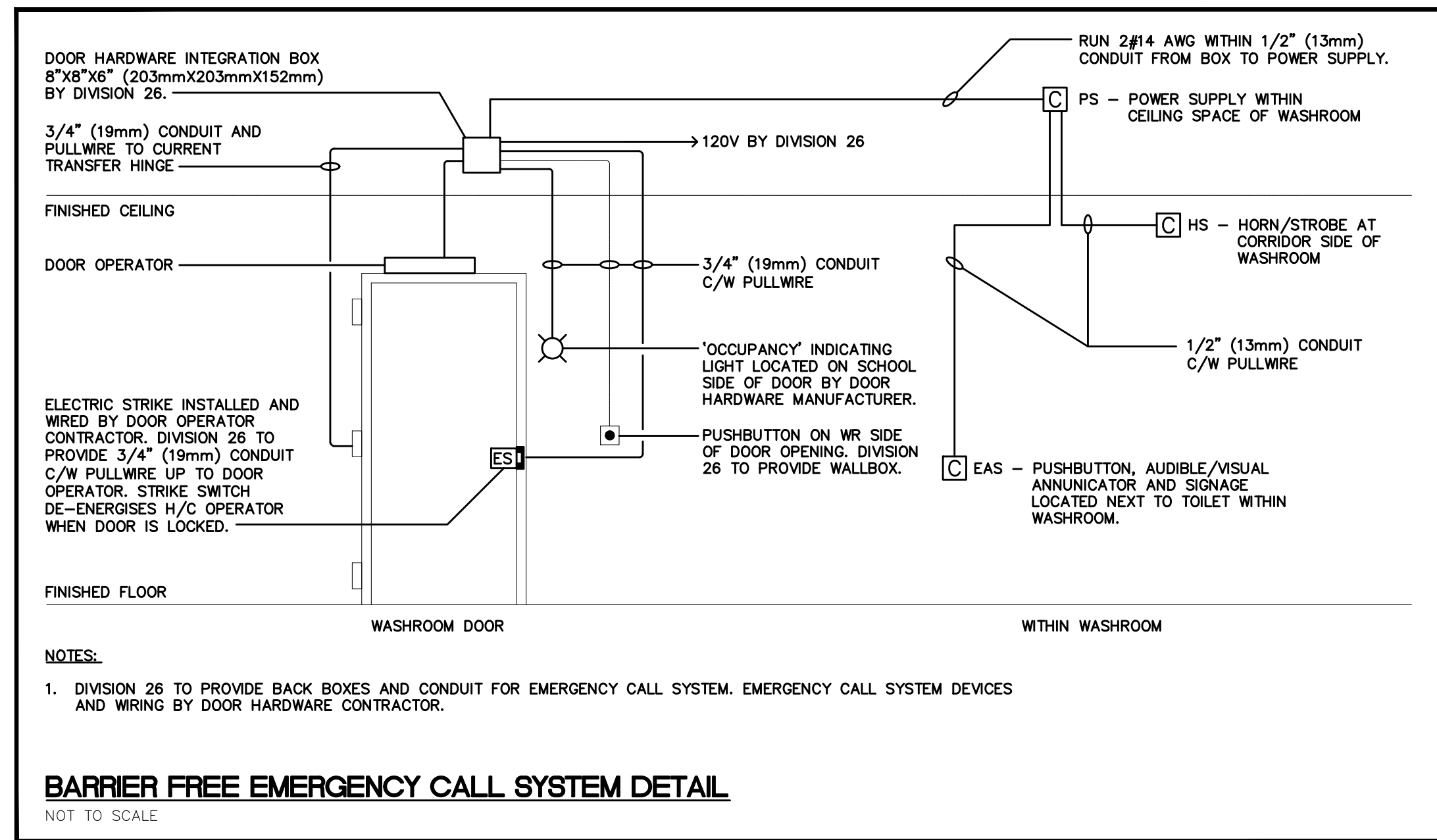
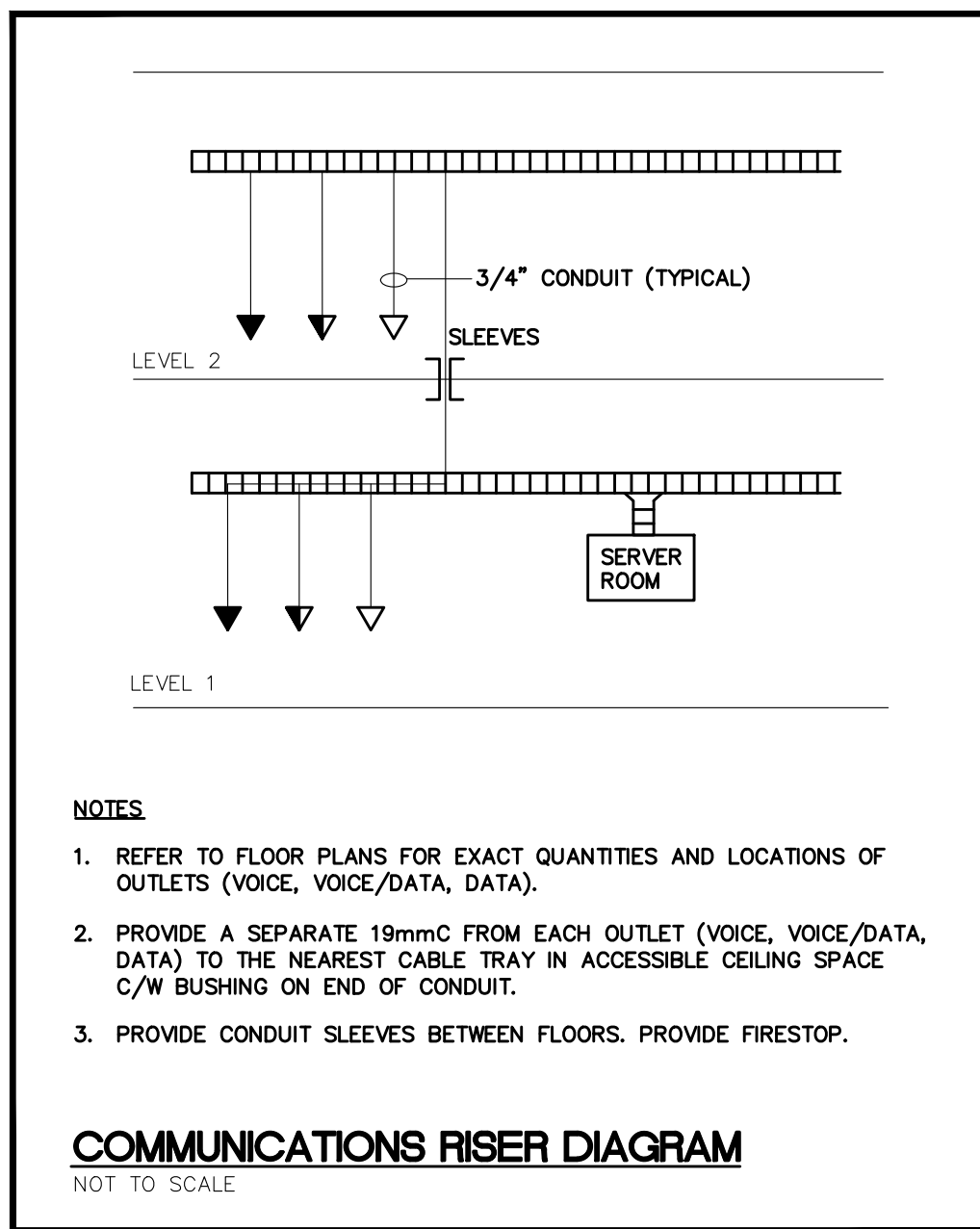
Project:

PORTLAND MUNICIPAL HUB

Drawing Title:

PANEL SCHEDULES

Drawn By: AK	Checked By: AF
Date: 2022-06-22	Scale: AS SHOWN
Project Number: VR-22-073	Drawing No.: E400



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No.	Issued	Date	By

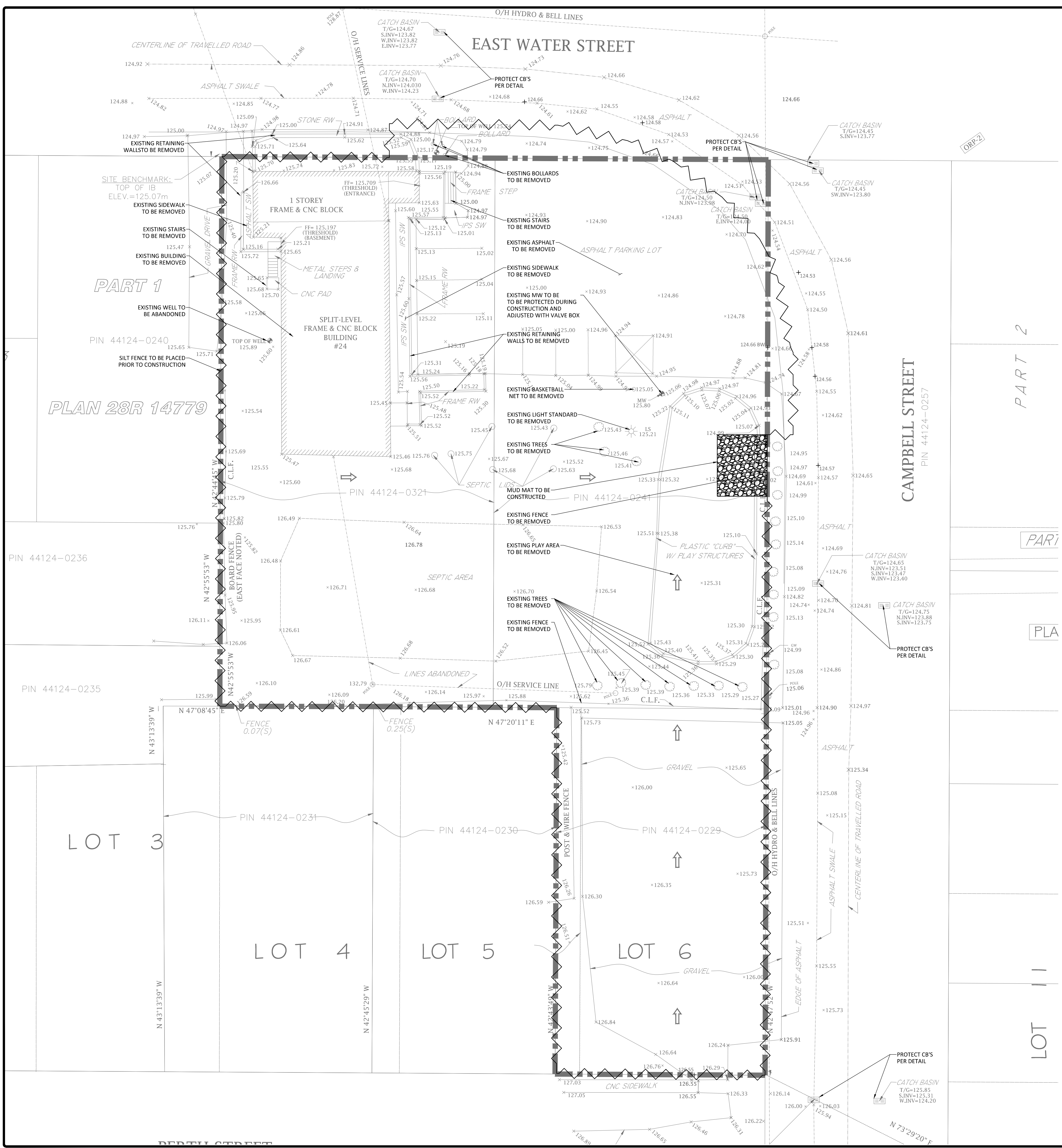
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VR 22-073

Seals

Project:
PORTLAND MUNICIPAL HUB

Drawing Title:
ELECTRICAL DETAILS

Drawn By: AK	Checked By: AF
Date: 2022-06-22	Scale: AS SHOWN
Project Number: VR-22-073	Drawing No.: E500

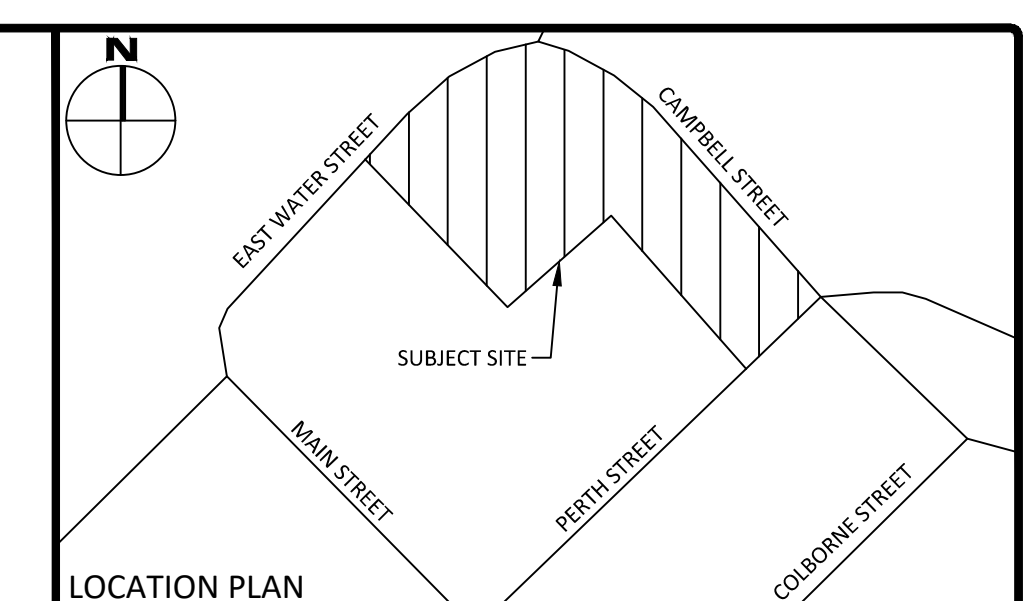


GENERAL NOTES

1. THE ORIGINAL TOPOGRAPHY, GROUND ELEVATION AND SURVEY DATA SHOWN ARE SUPPLIED FOR INFORMATION PURPOSES ONLY, AND IMPLY NO GUARANTEE OF ACCURACY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION SHOWN.
2. THIS PLAN IS NOT A CADASTRAL SURVEY SHOWING LEGAL PROPERTY BOUNDARIES AND EASEMENTS. THE PROPERTY BOUNDARIES SHOWN HEREON HAVE BEEN DERIVED FROM INFORMATION SUPPLIED BY THE ENGINEER (OR SHOWN ON) DRAWING 2179914 AND CANNOT BE RELIED UPON TO BE ACCURATE OR COMPLETE. THE PRECISE LOCATION OF THE CURRENT PROPERTY BOUNDARIES AND EASEMENTS CAN ONLY BE DETERMINED BY AN UP-TO-DATE LAND TITLES SEARCH AND A SUBSEQUENT CADASTRAL SURVEY PERFORMED AND CERTIFIED BY AN ONTARIO LAND SURVEYOR.
3. THE CONTRACTOR IS TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY BEFORE COMMENCING CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT.
5. THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND MAINTAIN ALL RESPONSIBILITY FOR EXISTING UTILITIES WHETHER OR NOT SHOWN ON THESE DRAWINGS. IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.
6. RESTORE ALL TRENCHES AND SURFACES OF PUBLIC ROAD ALLOWANCES TO CONDITION EQUAL OR BETTER THAN ORIGINAL CONDITION AND TO THE SATISFACTION OF THE CITY AUTHORITIES.
7. EXCAVATE AND DISPOSE OF ALL EXCESS EXCAVATED MATERIAL SUCH AS ASPHALT, CURBING AND DEBRIS, OFF SITE AS DIRECTED BY THE ENGINEER AND THE CITY.
8. TOPSOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILL TO BE PLACED IN FILL AREAS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THIS INCLUDES LIMITING THE AMOUNT OF EXPOSED SOIL, TEMPORARY SEDIMENT CONTROL (GEOSOCK INSERTS WITH AN OVERFLOW UNDER GRATE OR COVER) TO BE IMPLEMENTED DURING CONSTRUCTION ON ALL PROPOSED ROAD CATCHBASINS, REARWARD CATCHBASINS AND CATCHBASIN MANHOLES AND OTHER SEDIMENT TRAPS. NO RECYCLED GEOSOCK MATERIAL SHALL BE PERMITTED FOR USE ON SITE. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
2. AT THE DISCRETION OF THE PROJECT MANAGER OR MUNICIPAL STAFF, ADDITIONAL SILT CONTROL DEVICES SHALL BE INSTALLED AT DESIGNATED LOCATIONS.
3. FOR SILT FENCE BARRIER, USE OPSD 219.110. GEOTEXTILE FOR SILT FENCE AS PER OPSD 1860, TABLE 3.
4. EXCEPT AS PROVIDED IN PARAGRAPHS 4.1., and 4.2. BELOW, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS FEASIBLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED.
 - 4.1. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS FEASIBLE.
 - 4.2. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED, (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF SITE BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED.
5. SEDIMENT THAT IS ACCUMULATED BY THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED IN A MANNER THAT AVOIDS ESCAPE OF THE SEDIMENT TO THE DOWNSTREAM SIDE OF THE CONTROL MEASURE AND AVOIDS DAMAGE TO THE CONTROL MEASURE. SEDIMENT SHALL BE REMOVED TO THE LEVEL OF THE GRADE EXISTING AT THE TIME THE CONTROL MEASURE WAS CONSTRUCTED AND BE ACCORDING TO THE FOLLOWING:
 - 5.1. FOR LIGHT-DUTY SEDIMENT BARRIERS, ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE IT REACHES THE LESSER OF THE FOLLOWING:
 - 5.1.1. A DEPTH OF ONE-HALF THE EFFECTIVE HEIGHT



LEGEND

	CONCRETE BARRIER CURB		LIMIT OF CONSTRUCTION
	CONCRETE WALKWAY		DRAINAGE SWALE
	PROPOSED ASPHALT		DRAINAGE DITCH
	LANDSCAPING CATCHBASIN		SLOPING AT 3% UNLESS SPECIFIED
	CATCHBASIN MANHOLE		SURFACE ELEVATION
	CATCHBASIN		SWALE ELEVATION
	SANITARY SEWER MANHOLE		TOP OF WALL ELEVATION
	FIRE HYDRANT		OVERLAND FLOW ROUTE
	WATER VALVE		SILT FENCE BARRIER
	WATER METER		STRAW BALE CHECK DAM
	REMOTE WATER METER		MUD MAT

FOR REVIEW ONLY
NOT FOR CONSTRUCTION

No.	Revisions	Date
1		

Check and verify all dimensions before proceeding with the work. Do not scale drawings.

SCALE 1:200

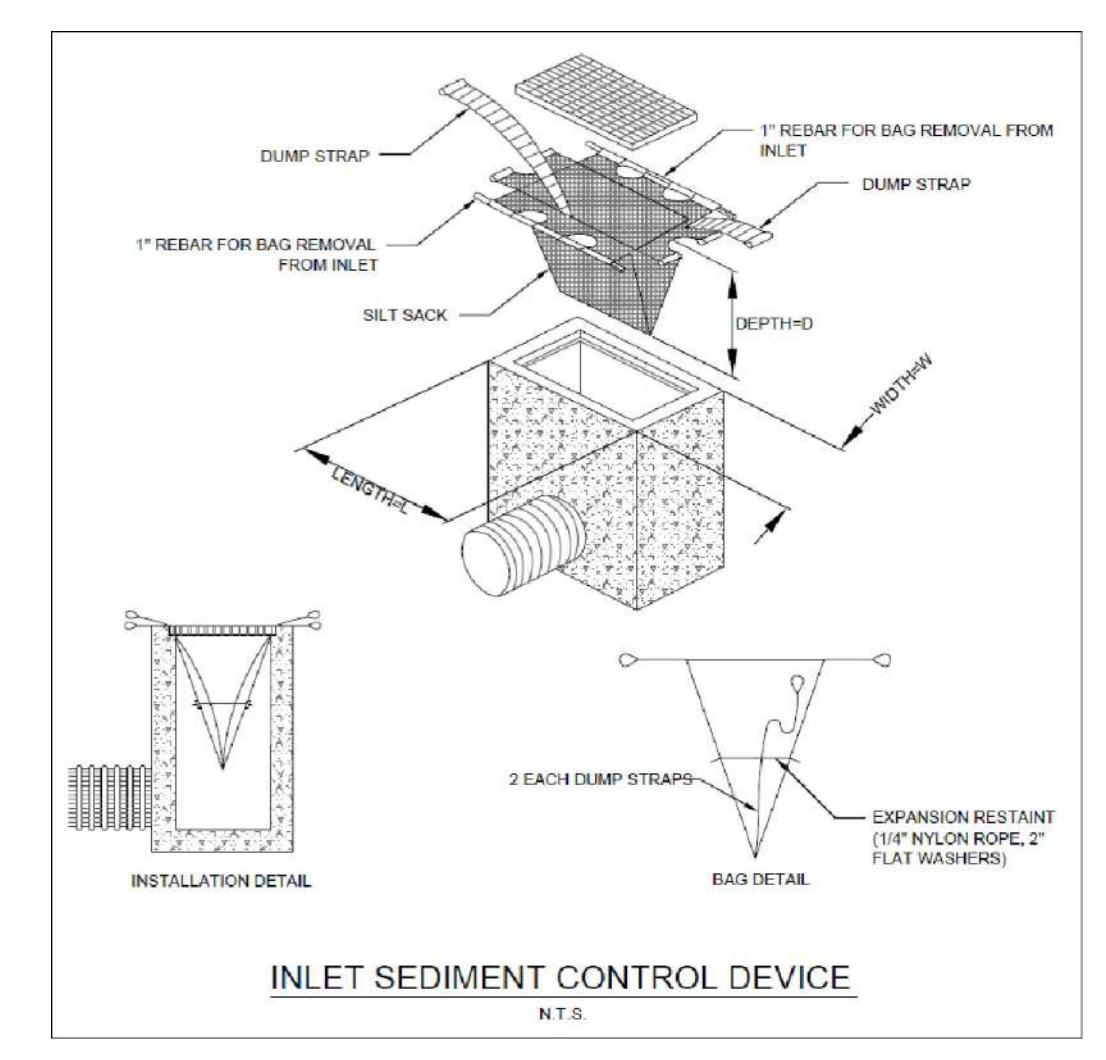
McINTOSH PERRY
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Client: **+VG ARCHITECTS**
1340 WELLINGTON ST. WEST
OTTAWA, ON K1Y 3B7

Project: **PORTLAND COMMUNITY HALL**
24 EAST WATER STREET

Drawing Title: **REMOVALS, EROSION & SEDIMENT CONTROL PLAN**

Scale: 1:200	Project Number: CCO-21-3181
Drawn By: FV	Checked By: CIM
Designed By: FV	Project Number: C100



FILENAME: U:\CH\2021\Projects\2021\06\16\CCO-21-3181 - 01.dwg
 USER: FV
 DATE: 2021-07-08 10:00:00
 LAST SAVED BY: FV
 LAST PLOTTED: Friday, July 08, 2022 10:00:00
 PLOTTER: HP DesignJet 2550

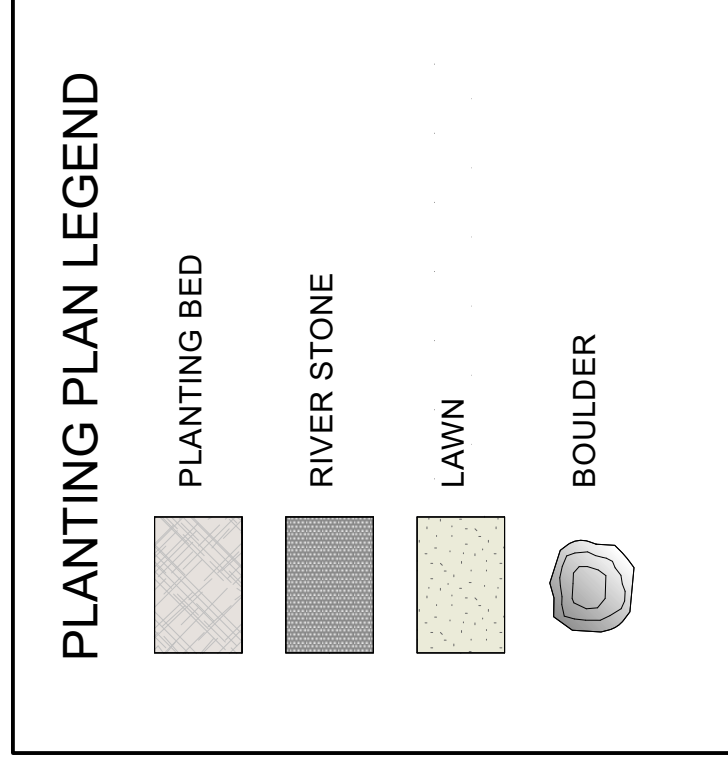
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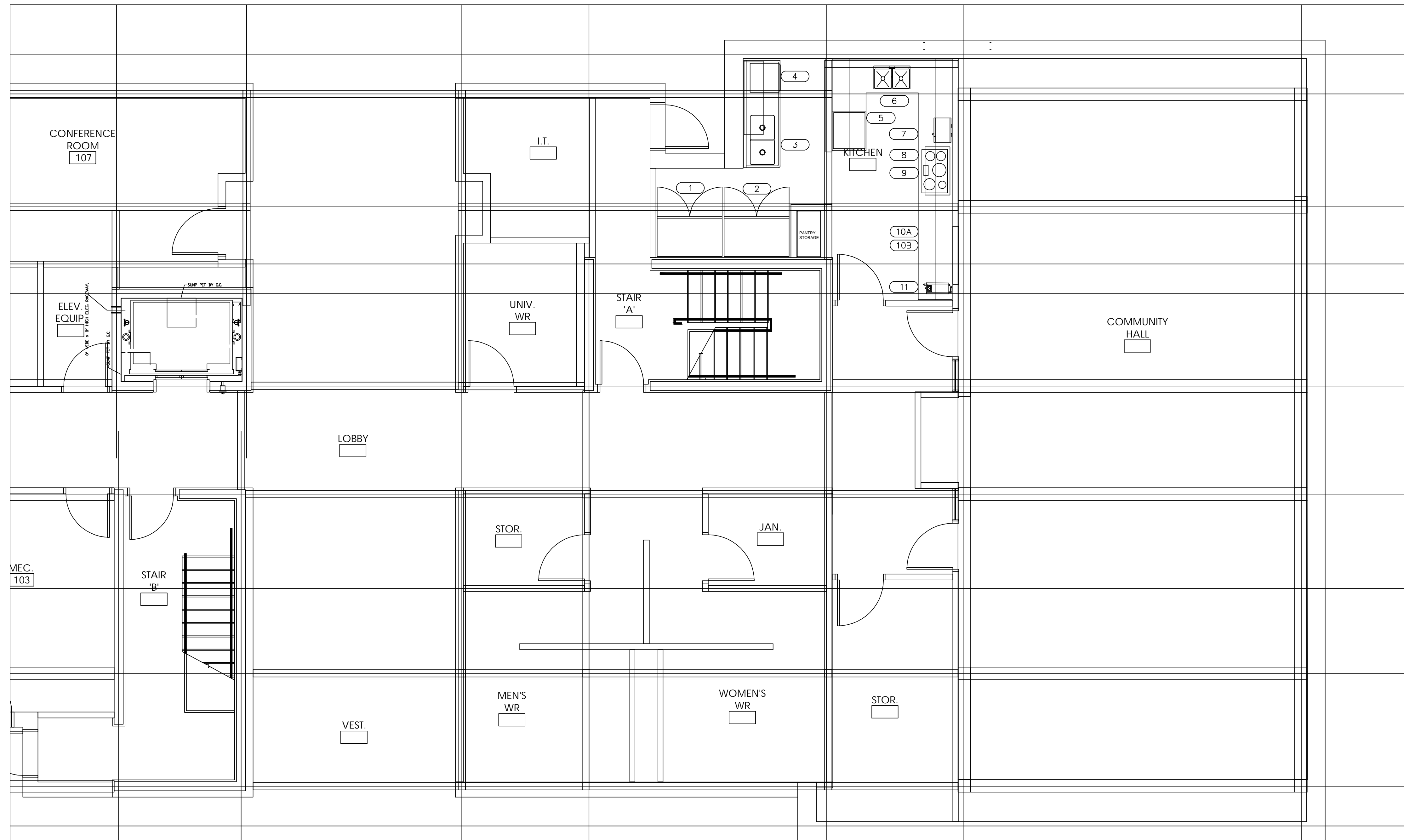
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Plant List

Qty	Botanical Name	Common Name	Size
Trees			
12	Acer saccharum	Sugar Maple	50mmWB
12	Ampelocler canadensis (Tree form)	Shadblow Serviceberry	45cmWB
10	Thuja occidentalis 'Smaragd'	Emerald Cedar	200cmWB
1	Quercus rubra	Red Oak	50cmWB
1	Cercis canadensis	Eastern Redbud	50cmWB
Shrubs			
47	Arctostaphylos uva-ursi	Bearberry	2g
32	Arctostaphylos uva-ursi	Black Chokeberry	5g
5	Dieris triflorata	Bush Honeysuckle	2g
34	Juniperus communis 'Green Carpet'	Green Carpet Juniper	3g
9	Rosa blanda	Meadow Rose	2g
Perennials			
116	Arenaria canadensis	Canada Anemone	1g
141	Geranium maculatum	Wild Geranium	1g
35	Rubus occidentalis	Black-Eyed Susan	1g
Grasses			
71	Calamagrostis canadensis	Canada Bluejoint	1g



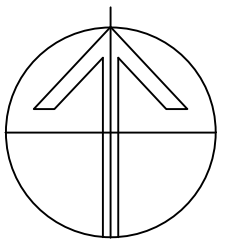


FOOD SERVICES MAIN KITCHEN EQUIPMENT PLAN

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KEY PLAN

1	JULY 11, 2022	ISSUED FOR PRELIMINARY REVIEW
NO.	DATE	REVISION



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SCALE: AS SHOWN DRAWN: DF

DATE: JULY 7, 2022 CHECKED: DF

PROJECT:
PORTLAND MUNICIPAL HUB
PORTLAND, ONTARIO

CLIENT
+VG ARCHITECTS
1340 WELLINGTON ST. W.
OTTAWA, ONTARIO K1Y 3B7

TITLE:
FOODSERVICE EQUIPMENT PLAN

PROJECT NO.: DRAWING NO.:

22-438 FS-01

EQUIPMENT SCHEDULE

Item No	Qty	Equipment Category	Manufacturer	Model Number	Amps	KW	HP	Volts	Phase	Cycle	Direct	Plug	Cold Water Size (in)	Hot Water Size (in)	Direct Drain Size (in)	Indir Drain Size (in)	Gas Size (in)	MBTUH	HVAC Exhaust Duct Size (in)	HVAC Exhaust CFM	HVAC Exhaust SFPWG		
1	1	Freezer, Reach-In	Traulsen	CLBM-49F-FS-LR	11.1			115	1	60		X											
2	1	Refrigerator, Reach-In	Traulsen	CLBM-49R-FS-LR	6.7			115	1	60		X											
3	1	Dishable w/Sink	Custom S/S										0.5	0.5	1.5								
4	1	Washer, Undercounter	Champion Industries	UH230B	32.0	6.0	1.0	208	1	60	X		0.5		1.5								
5	1	Double Wall Oven	Whirlpool	WOD77EC7HS	2.6	1.0		115	1	60		X											
6	1	Two Comp Sink	Custom										0.5	0.5	1.5								
7	1	Oven, Microwave	Panasonic	NE-1054F	13.4	1.0		120	1	60		X											
8	1	Cooktop Hood	Best	CP351429SB	2.6	1.0		115	1	60		X							450				
9	1	Induction Cooktop	KitchenAid	KICU509XBL	40.0	1.0		240	1	60		X											
10A	1	U Shaped Work Counter	Custom S/S																				
10B	1	Overhead Shelf-Cupboard	Custom S/S																				
11	1	Coffee Maker, Airpot, Automatic	Bunn-O-Matic	23001.0051		1.5		115	1	60		X											

GROUND FLOOR - REFRIGERATED LAUNDRY AND WASTE ROOM

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