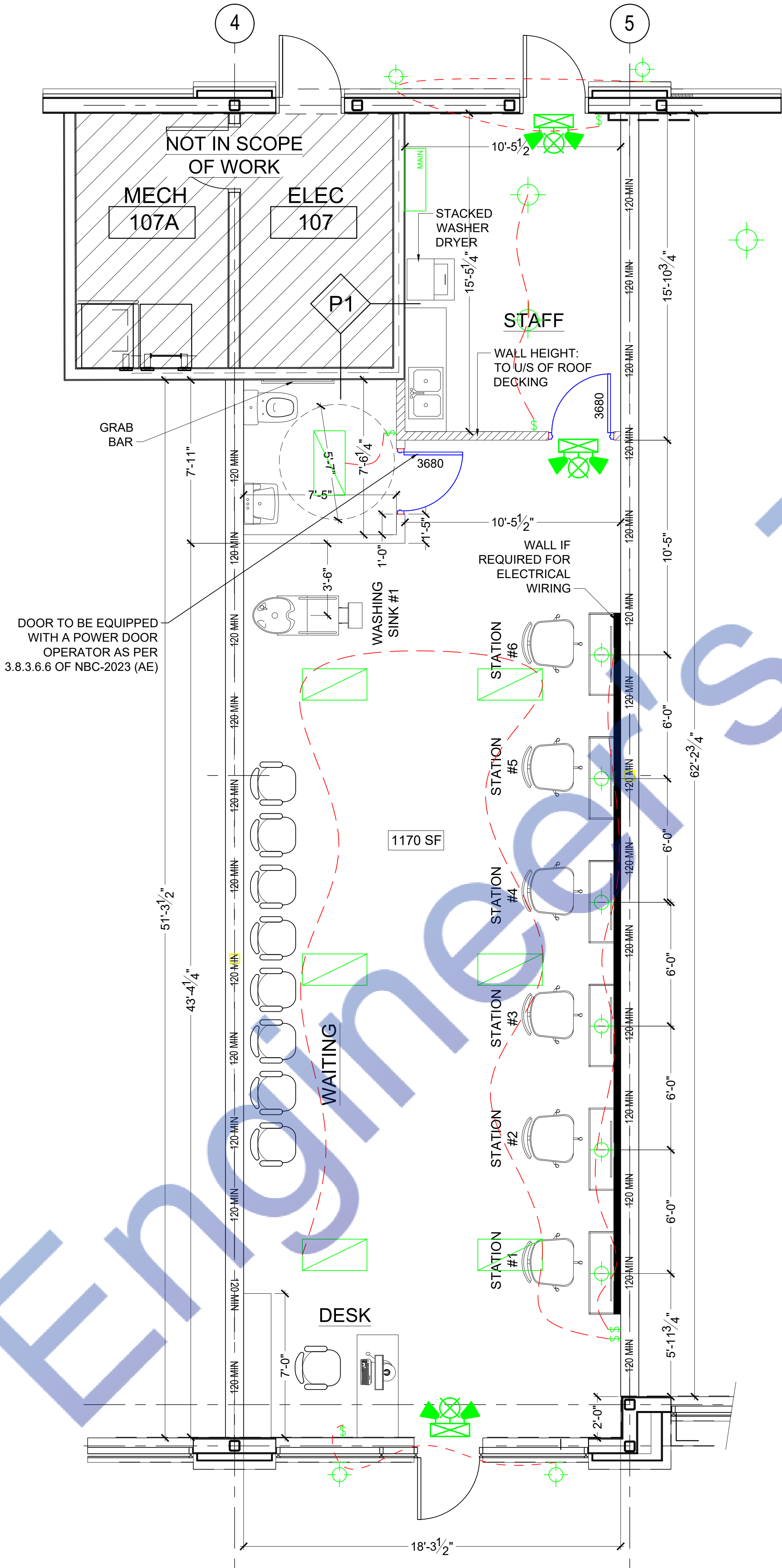


Note:
This Electrical Layout Plan has been designed in full compliance with the latest electrical codes, standards, and regulations applicable in Edmonton, Alberta, Canada. The following updated codes and rules have been followed to ensure safety, efficiency, and adherence to local requirements:

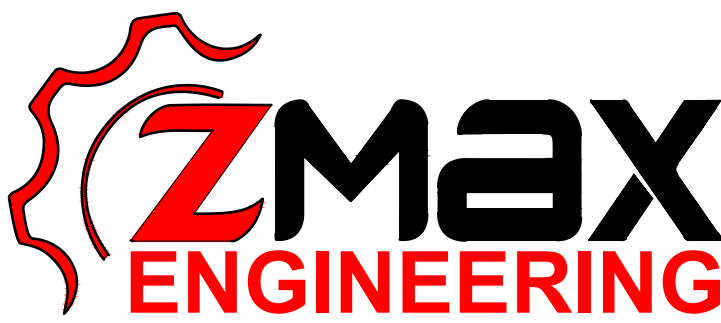
- Canadian Electrical Code (CEC), CSA C22.1:2024 – The primary electrical code governing installation, maintenance, and inspection of electrical systems in Canada.
- Alberta Electrical Utility Code (AEUC) – Ensures compliance with utility-specific requirements for electrical installations in Alberta.
- Alberta Safety Codes Act & Regulations – Mandates adherence to safety standards for electrical systems in construction and renovation projects.
- City of Edmonton Electrical Regulations – Complies with all municipal electrical permitting, inspection, and installation requirements. (General reference without needing a bylaw number.)
- National Building Code of Canada (NBC 2025) – Provides guidelines for electrical system integration within building construction.
- Canadian Standards Association (CSA) Standards – Includes applicable standards for wiring, devices, and electrical equipment (e.g., CSA C22.2 No. 0-23 for general requirements).
- Alberta Municipal Affairs – Electrical Permits & Inspections – Ensures all electrical work meets provincial safety and operational standards.

Product Approval Codes (Alberta, Canada):
All electrical materials, devices, and equipment specified in this plan are certified under CSA, UL, or other standards recognized by Alberta Municipal Affairs and the Canadian Standards Association (CSA).



ELECTRICAL LEGEND

- 20W CEILING MOUNT LED LIGHT
- 20W HANGING LED LIGHT
- SMOKE DETECTOR
- 20W LED TUBE LIGHT 1'x4'
- 40W LED LIGHT 2'x4'
- ONE WAY SWITCH 120V
- TWO WAY SWITCH 120V
- MULTI SOCKET OUTLET 120V
- 10W WALL MOUNTED LED LIGHT
- 60W CEILING FAN 120V
- SUB DISTRIBUTION BOARD
- MAIN DISTRIBUTION BOARD
- 40W BATHROOM EXHAUST FAN
- CALLING BELL
- ELECTRIC WIRE
- EXIT LIGHT WITH EXIT TEXT & EMERGENCY LIGHT



CONSULTANT:

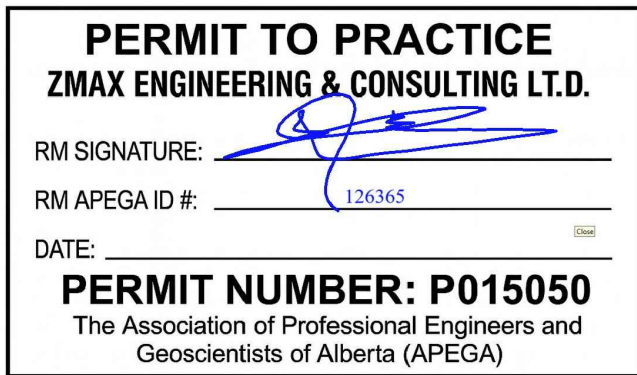
Zmax Engineering & Consulting Ltd.
360 TaigaNova Crescent
Fort McMurray, AB T9K 0T4
admin@zmaxengineering.com
<http://zmaxengineering.com>
Phone: 780-804-5959
780-880-7756

CONTACT:

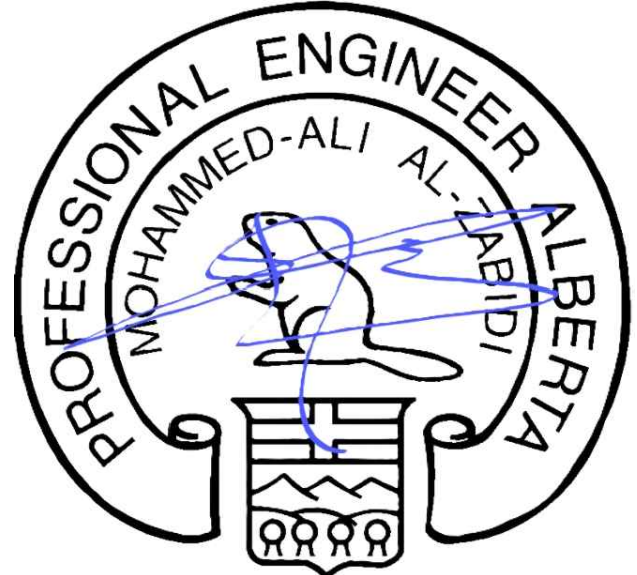
Mohammed-Ali Al-Zabidi
P.Eng. MBA, PMP
ali@zmaxengineering.com

#	DATE	DESCRIPTION	ISSUED BY

PERMIT STAMP



SEAL



NOTE:
EDMONTON, ALBERTA

CLIENT:
WINTERBURN POINT CRU 4

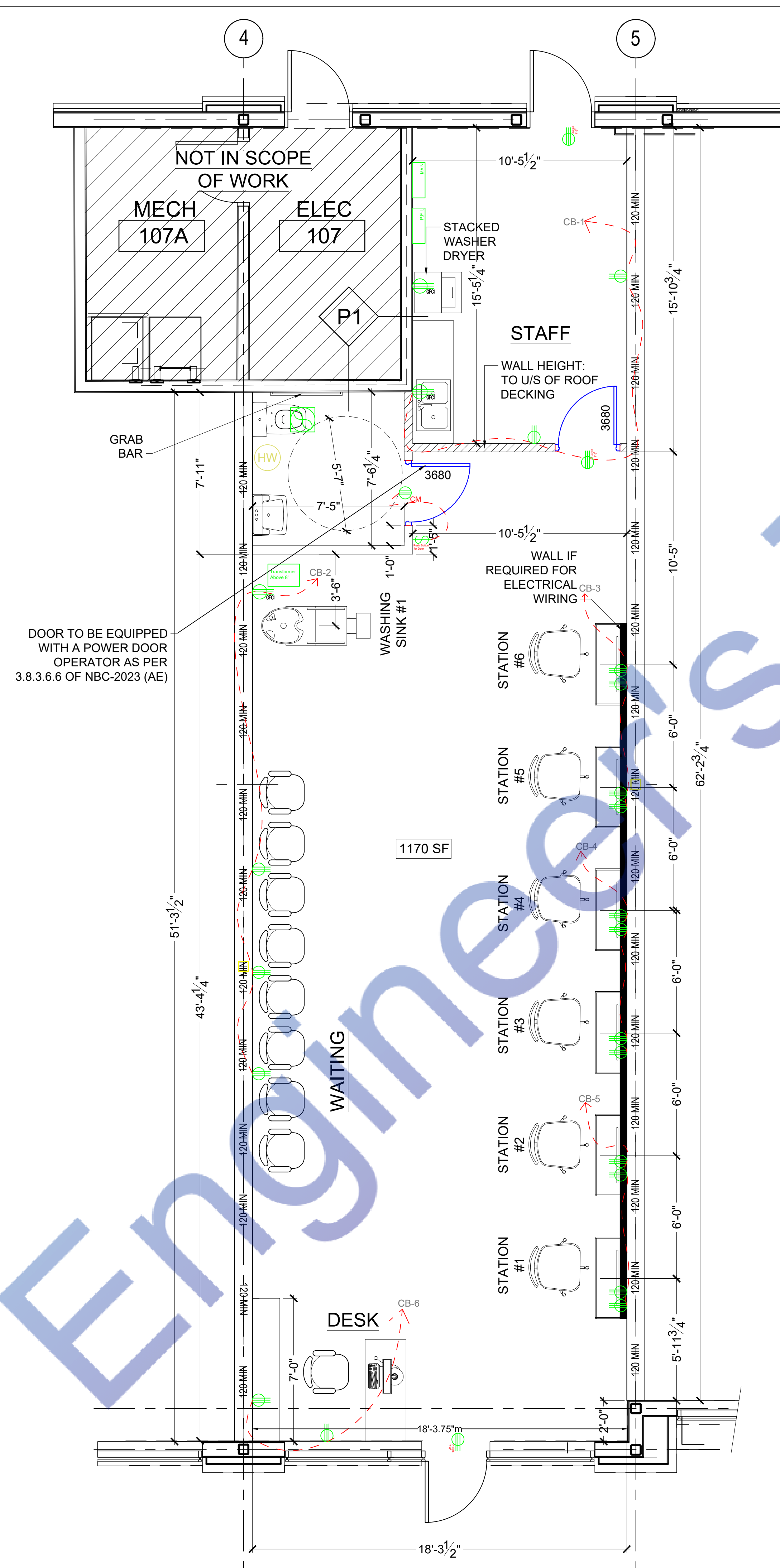
PROJECT INFORMATION:
PROPOSED ELECTRICAL
LIGHTING PLAN

LOCATION:
EDMONTON, ALBERTA

PROPOSED BY: AZ PROVIDED BY: NM

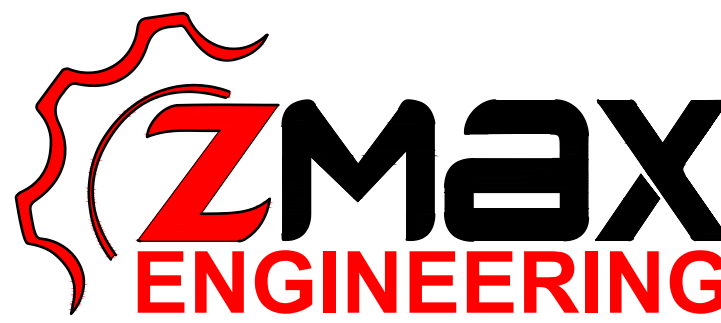
SCALE: N.T.S. PAGE NO: E001





ELECTRICAL LEGEND

- DUPLEX RECEPTACLE 120V
- GFCI DUPLEX RECEPTACLE 120V
- WEATHER PROOF DUPLEX RECEPTACLE 120V
- CEILING MOUNT DUPLEX RECEPTACLE 120V
- DUPLEX RECEPTACLE 120V FOREMERGENCY LIGHT
- SUB DISTRIBUTION BOARD
- MAIN DISTRIBUTION BOARD
- ELECTRIC WIRE



CONSULTANT:

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CONTACT:

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PERMIT TO PRACTICE
ZMAX ENGINEERING & CONSULTING LTD.

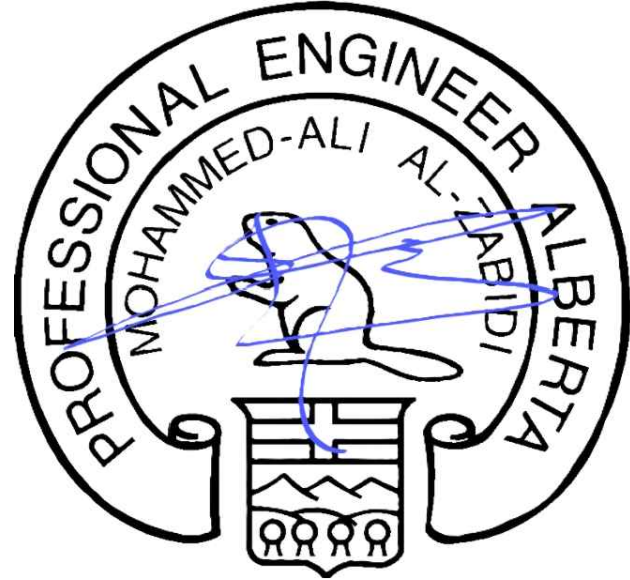
RM SIGNATURE:

RM APEGA ID #: 126365

DATE:

PERMIT NUMBER: P015050
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

SEAL



NOTE:
EDMONTON, ALBERTA

CLIENT:
WINTERBURN POINT CRU 4

PROJECT INFORMATION:
PROPOSED ELECTRICAL
POWER PLAN

LOCATION:
EDMONTON, ALBERTA

PROPOSED BY: AZ	PROVIDED BY: NM
SCALE: N.T.S.	PAGE NO.: E002



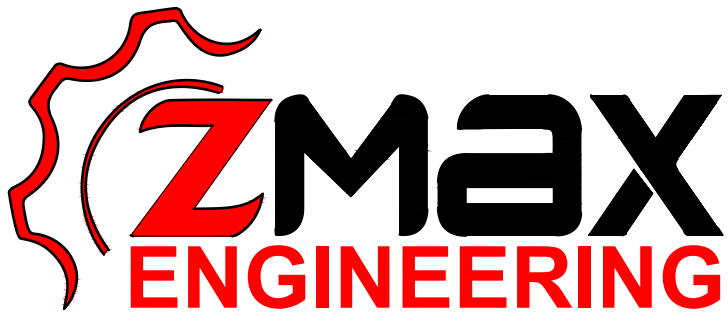
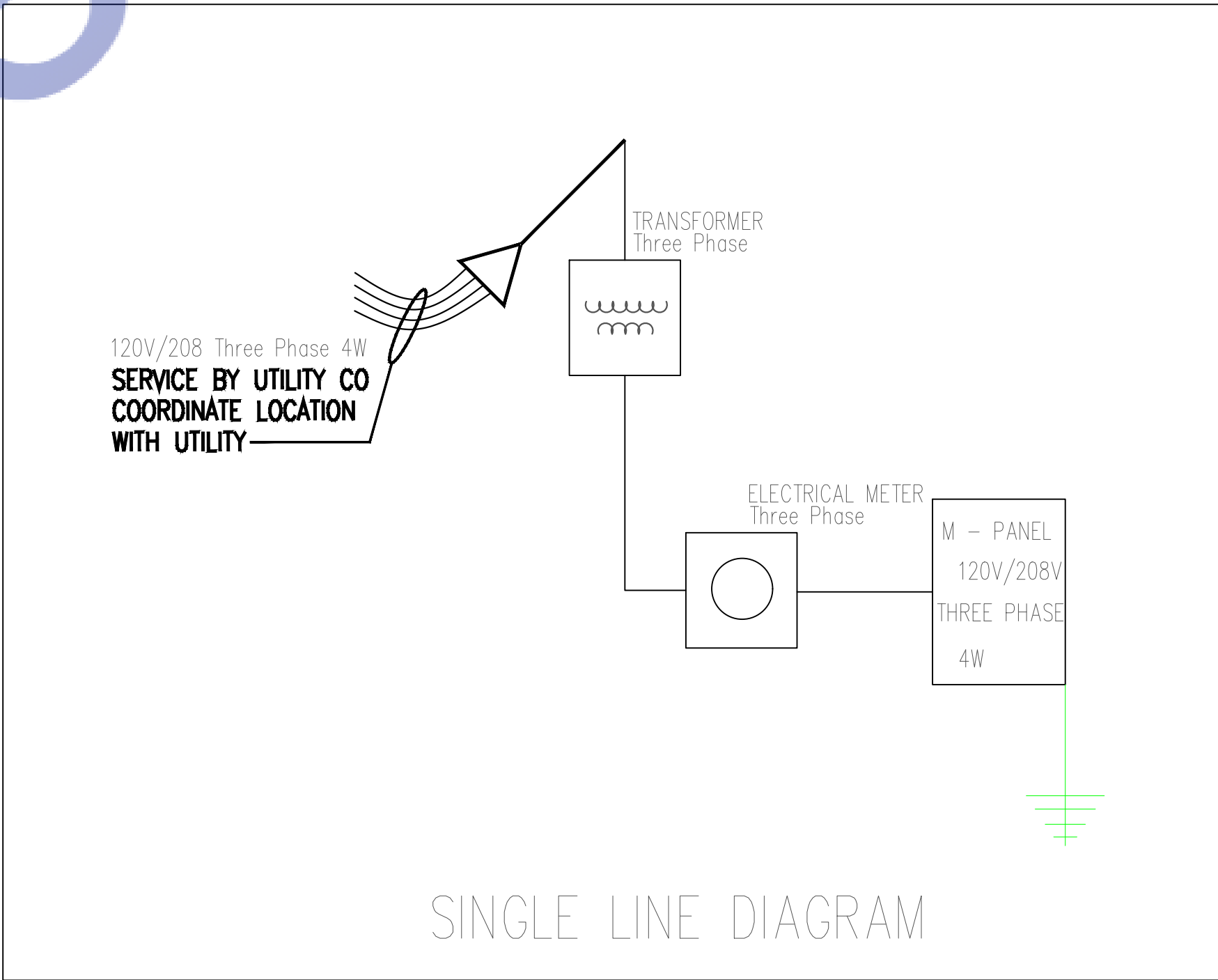
MAIN PANEL																			
Panel Location-																			
Voltage (Phase-Ground/Phase-Phase)		120	208	Source of Supply-From Service Disconnect/Meter															
Phase-		3		Wire-				4											
Rated Amps-		100		AIC-				10k											
MCCB		3-Phase 100 Amps MCCB		Mounting-				Wall Surface											
Circuit	Description	New/ Existing	Load Type	Breaker Size	Poles	Wire Size	A		B		C		Wire Size	Poles	Breaker Size	Load Type	New/ Existing	Description	Circuit
1	SALON LIGHTS	N		15	1	#14	320	2000					#12	1	20		N	WATER HEATER	2
3	RECEPTACLE W/D	N		20	2	#12			900	7034			#6	2	60		N	HVAC	4
5											900	7034							6
7	CB-1	N		20	1	#12	300	500					#12	1	20		N	CB-2	8
9	CB-3	N		20	1	#12			800	800			#12	1	20		N	CB-4	10
11	CB-5	N		20	1	#12					800	500	#12	1	20		N	CB-6	12
13	OTHERS LIGHTS	N		15	1	#14	270	100					#14	1	15		N	CB EMER. LIGHTS	14
15	SPARE	--	--	--	--	--			0	0			--	--	--	--	--	SPARE	16
							A		B		C		Total						
Connected Load (W)							3490		9534		9234		22258						
Divided by 3-phase multiplayer (1.732) and line to line voltage 208 V							62												
Connected Amps							62												
Main Type and Amps Rating							3-Phase 100 Amps MCCB												
Demand Load Calculation																			
Load Classification	Connected Load	Demand Factor	Estimated Demand																
Lighting - Dwelling Unit	590	100%	590																
Water Heater - Dwelling Unit	2000	100%	2000																
Receptacle	5600	65%	3640																
Cooling	14068	100%	14068																
Pump	0	125%	0																
Other	0	100%	0																
Demand Load	22258		20298																
Demand Amps			57																

120V/208 Three Phase 4W
SERVICE BY UTILITY CO
COORDINATE LOCATION
WITH UTILITY

TRANSFORMER
Three Phase

ELECTRICAL METER
Three Phase

M - PANEL



CONSULTANT:

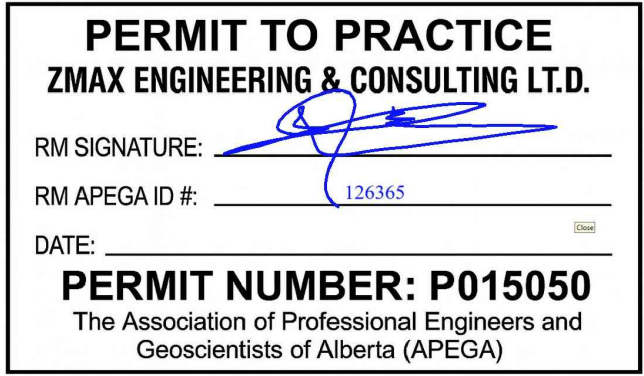
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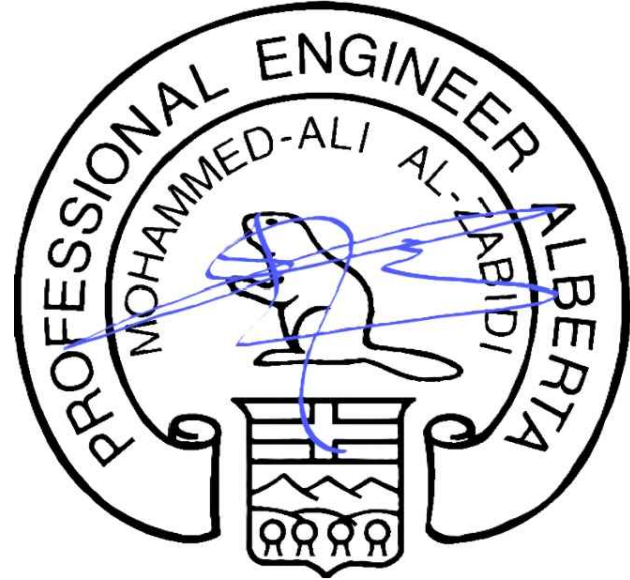
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#	DATE	DESCRIPTION	ISSUED BY

PERMIT STAMP



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NOTE:
EDMONTON, ALBERTA

CLIENT:
WINTERBURN POINT CRU 4

PROJECT INFORMATION:
PROPOSED ELECTRICAL
LOAD SCHEDULE & SLD
PLAN

LOCATION:
EDMONTON, ALBERTA

PROPOSED BY: PROVIDED BY:
AZ NM

SCALE: PAGE NO:
N.T.S. E003



Note:

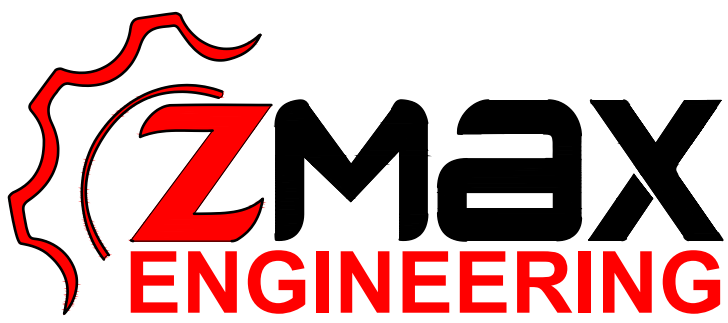
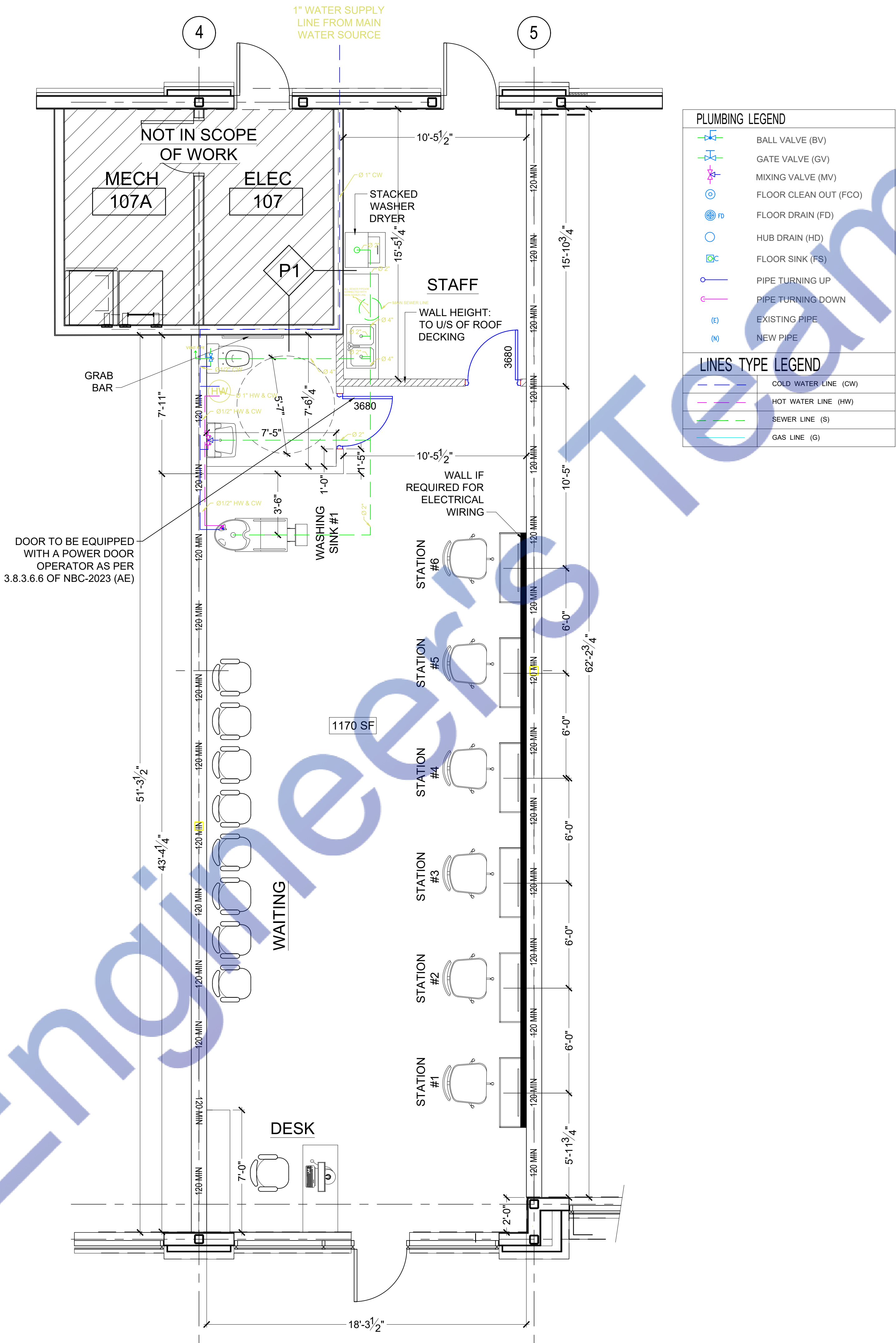
This Planning Layout Plan has been designed in full compliance with the latest zoning, land use, and building regulations applicable in Edmonton, Alberta, Canada. The following updated codes, bylaws, and standards have been followed to ensure adherence to municipal and provincial requirements:

- City of Edmonton Zoning Bylaw 20001 (Current 2024 Edition) – Governs land use, density, building placement, and development standards within Edmonton, replacing the previous Bylaw 12800.
- Alberta Land Use Policies (2023 Update) – Provincial guidelines for sustainable land development, environmental protection, and regional planning.
- Edmonton Municipal Development Plan (MDP: City Plan 2040) – Outlines long-term growth, infrastructure planning, and urban design principles under the latest city-wide vision.
- Subdivision and Development Regulation (Alberta Regulation 160/2023) – Ensures compliance with subdivision, servicing, and utility requirements under current provincial rules.
- National Building Code of Canada (NBC 2025) – Provides updated standards for site planning, accessibility, and building placement (Note: NBC 2020 is now superseded by the 2025 edition).
- City of Edmonton Infrastructure Design & Construction Standards (2024) – Specifies requirements for streets, utilities, grading, and stormwater management.
- Alberta Safety Codes Act (2024 Amendments) – Includes provisions for site safety, fire access, and emergency services planning under the latest provincial regulations.
- Environmental Protection & Enhancement Act (EPEA) (RSA 2000, c E-12, with 2023 updates) – Ensures compliance with environmental impact assessments, where applicable.

- Additional Compliance Considerations:
- Edmonton Transit-Oriented Development (TOD) Guidelines (if applicable).
 - Alberta Wetland Policy (2023) – For projects affecting wetland areas.

Approval & Permitting:

This plan aligns with City of Edmonton Development Permits and Alberta Municipal Affairs requirements. All proposed land use, setbacks, and site servicing conform to the latest 2024 regulations.



CONSULTANT:

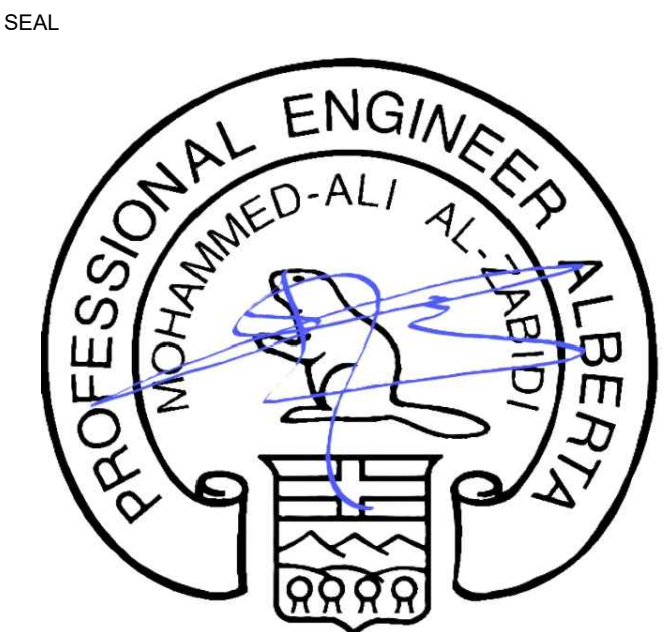
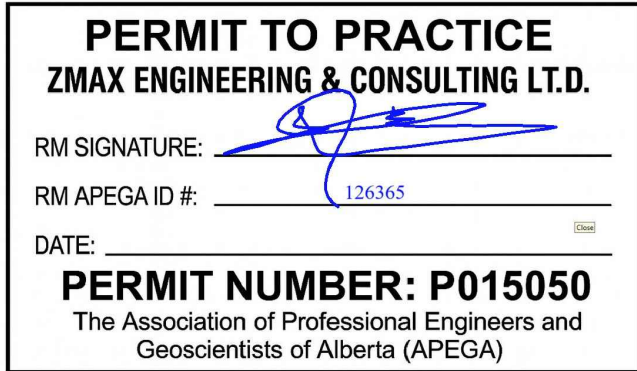
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NOTE:
EDMONTON, ALBERTA

CLIENT:
WINTERBURN POINT CRU 4

PROJECT INFORMATION:
PROPOSED PLUMBING
LAYOUT PLAN

LOCATION:
EDMONTON, ALBERTA

PROPOSED BY: AZ PROVIDED BY: NM

SCALE: N.T.S. PAGE NO: P001



