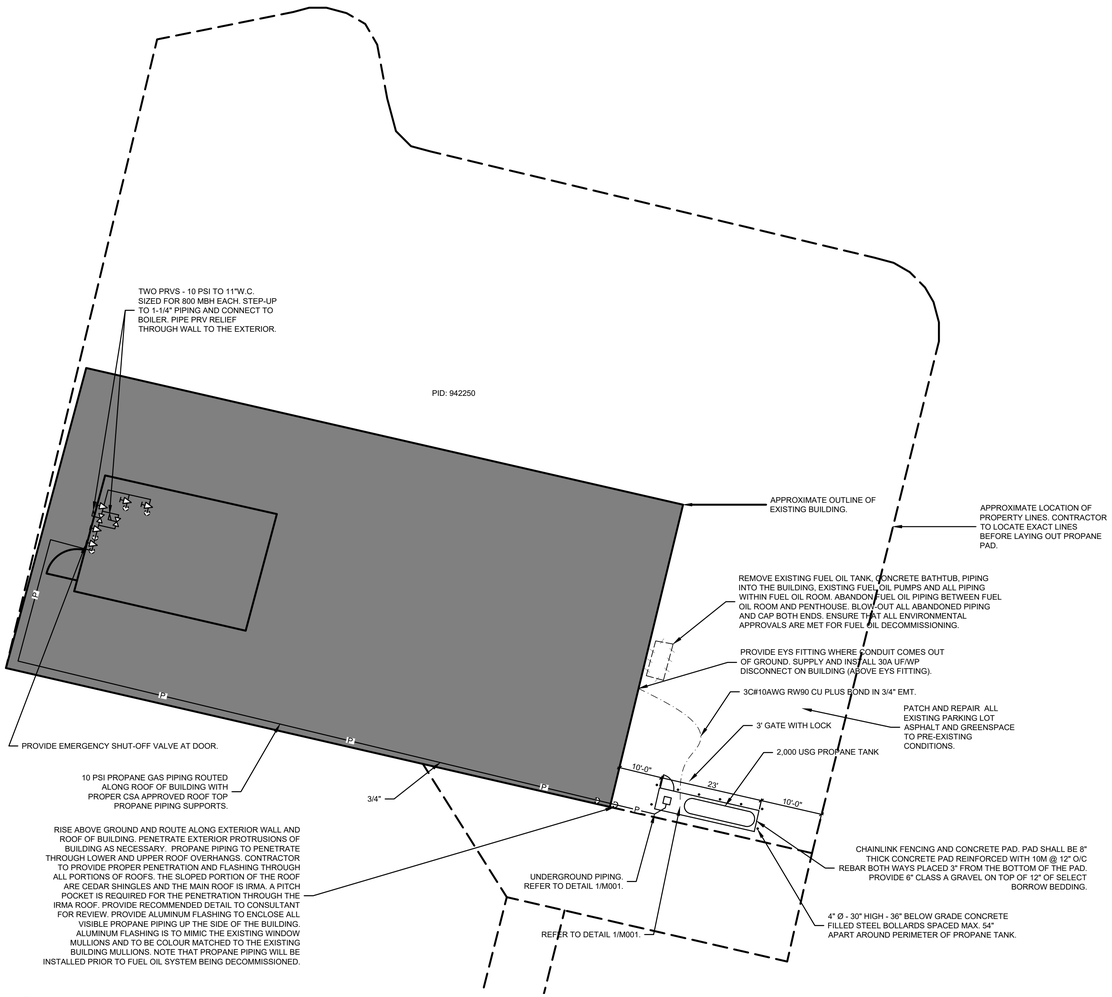
PROPANE BOILER SCHEDULE									
TAG	MAKE	MODEL	INPUT (MPH)	OUTPUT (MBH)	TURNDOWN	THERMAL EFFICIENCY	POWER	PUMP	REMARKS
B-1A	BUDERUS	SSB1000TL	1000	991	10:1	96.8%	120VAC/1P, 15.1 MOCP	INTERNAL CIRCULATOR PUMP TO RUN AT 57 GPM W/ 6 FT. OF HEAD	C/W NEUTRALIZING TANK
B-1B	BUDERUS	SSB1000TL	1000	991	10:1	96.8%	120VAC/1P, 15.1 MOCP	INTERNAL CIRCULATOR PUMP TO RUN AT 57 GPM W/ 6 FT. OF HEAD	C/W NEUTRALIZING TANK

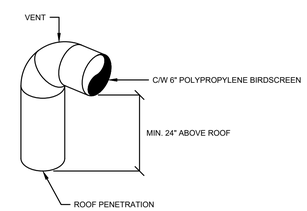
VAPOURIZER SCHEDULE							
TAG	MAKE	MODEL	CAPACITY (MBH)	DESIGN PRESSURE (PSIG)	VOLTAGE	POWER	REMARKS
VP-1	TORREX	TX-50	2000	250	208V/3P	6 kW	ZERO CLEARANCE TO TANK

PUMP SCHEDULE							
TAG	MAKE	MODEL	HEAD (FT.)	FLOW (GPM)	VOLTAGE	HP	REMARKS
P-1	B&G	E-1510 2.5BB	65	150	575/3	5	FULL SIZE IMPELLER. VFD OPERATION. NEW ISOLATION BASE.
P-2	B&G	E-1510 2.5BB	65	150	575/3	5	FULL SIZE IMPELLER. VFD OPERATION. NEW ISOLATION BASE.



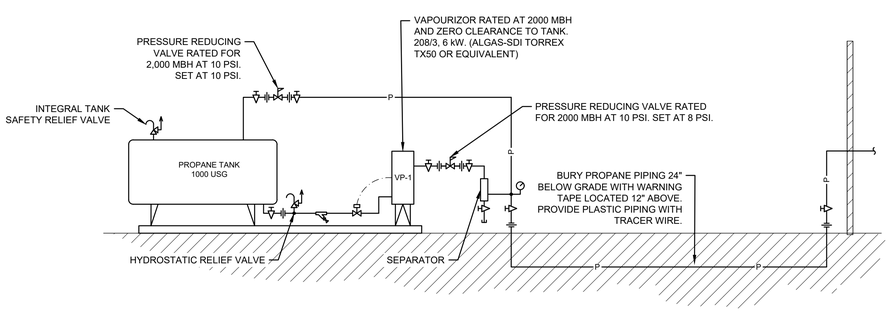
1 MECHANICAL SITE PLAN

M 001 SCALE: 1/16" = 1'-0"



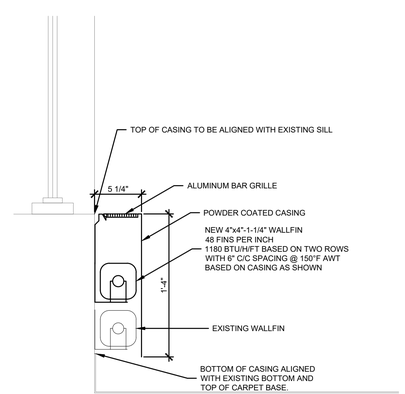
5 BOILER VENTING ROOF PENETRATION DETAIL

M 001 SCALE: N.T.S.



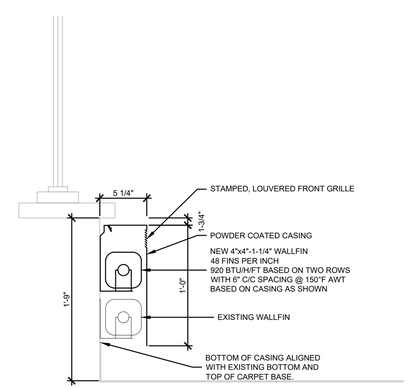
2 PROPANE PIPING SCHEMATIC

M 001 SCALE: N.T.S.



3 WALLFIN CASING DETAIL (FIRST FLOOR ONLY)

M 001 SCALE: N.T.S.



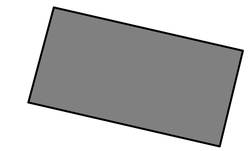
4 WALLFIN CASING DETAIL (TD BANK ONLY)

M 001 SCALE: N.T.S.

LEGEND

	EXISTING HOT WATER SUPPLY
	EXISTING HOT WATER RETURN
	EXISTING EQUIPMENT/DUCTWORK
FOS	EXISTING FUEL OIL SUPPLY
FOR	EXISTING FUEL OIL RETURN
	EXISTING COLD WATER
	DEMOLITION
	NEW HOT WATER SUPPLY
	NEW HOT WATER RETURN
	NEW EQUIPMENT/DUCTWORK
	NEW WALL FIN
P	NEW PROPANE PIPING
	NEW SANITARY ABOVE PIPING
	CONTROL WIRING
	BALL VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	CHECK VALVE
	GLOBE VALVE
	BUTTERFLY VALVE
	COUNTERBALANCE VALVE
	THREE-WAY VALVE
	GATE VALVE
	GAS SHUT-OFF VALVE
	ELECTRIC TWO-WAY VALVE
	STRAINER
	UNION
	PRESSURE GAUGE
	TEMPERATURE GAUGE
	AIR ELIMINATOR
	PUMP
	EXISTING ZONE VALVE
	PRESSURE SENSOR
	TEMPERATURE SENSOR
	FLOOR DRAIN
	PIPING CONNECTION
	CONNECT TO EXISTING
	CAP
	EXISITING DUPLEX RECEPTACLE
	EXISTING Q RECEPTACLE
	EXISTING CAT5E VOICE + DATA OUTLET

Prince Edward Island CANADA
Transportation, Infrastructure and Energy
Tel 902 368 5100
Fax 902 569 0590
www.princeedwardisland.ca
PO Box 2000
Charlottetown
Prince Edward Island
Canada C1A 7N8



KEY PLAN

PROJECT NORTH

TRUE NORTH

DATE	ISSUED FOR
2020.08.12	ISSUED FOR TENDER

CUSTOMER:
PROVINCE OF PRINCE EDWARD ISLAND
DEPARTMENT OF TRANSPORTATION, INFRASTRUCTURE, & ENERGY

PROJECT:
ACCESS PEI SUMMERSIDE
HEATING SYSTEM UPGRADE
120 HEATHER MOYSE DR., SUMMERSIDE, PE

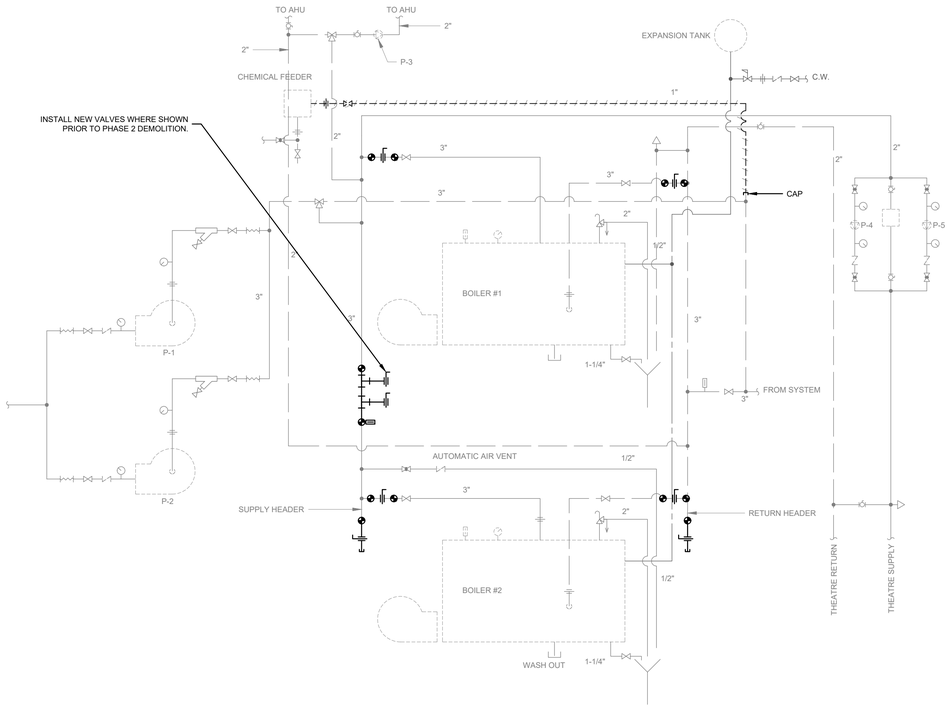
TITLE:
MECHANICAL SITE PLAN, SCHEDULES, DETAILS, & LEGEND

ORANGE DOOR ENGINEERING
49 WATER STREET, 2ND FLOOR
CHARLOTTETOWN PE, C1A 1A3
902.388.7685
JOE@ORANGEDOOR.ORG
WWW.ORANGEDOOR.ORG

PROFESSIONAL ENGINEER
The Association of Professional Engineers and Geoscientists of Prince Edward Island
J.J.Bystryk
1635
2020.08.12
Date
PROVINCE OF PRINCE EDWARD ISLAND

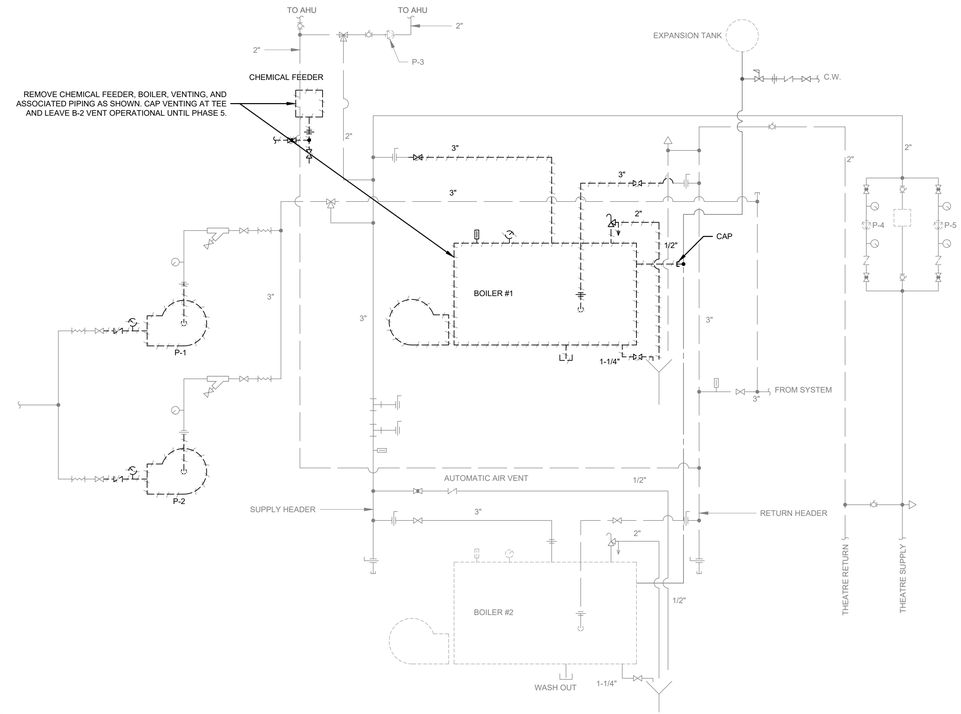
SCALE:	AS NOTED
DATE:	2020-07-21
JOB #:	2020-025
FILE:	2020-025_M
DRAWN BY:	DM

SHEET #: M001



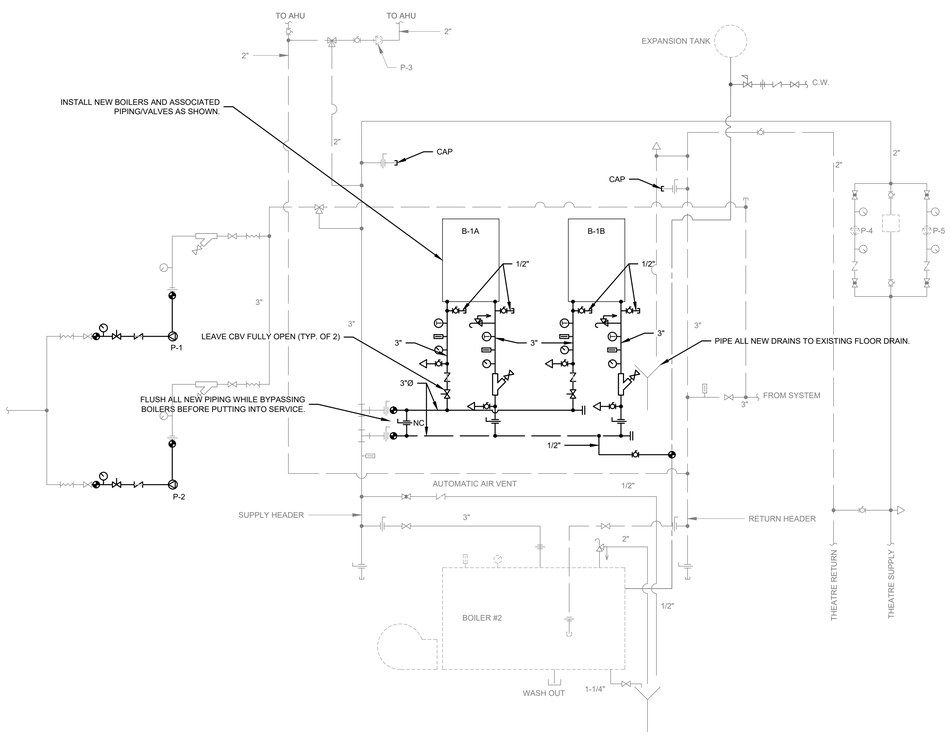
1 EXISTING BOILER PIPING SCHEMATIC - NEW VALVES (PHASE 1)

M 002 SCALE: N.T.S.



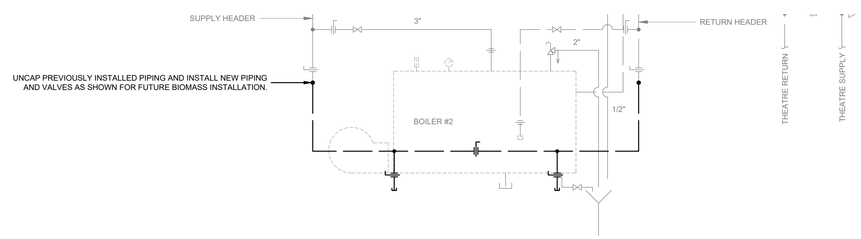
2 DEMOLITION BOILER PIPING SCHEMATIC (PHASE 2)

M 002 SCALE: N.T.S.



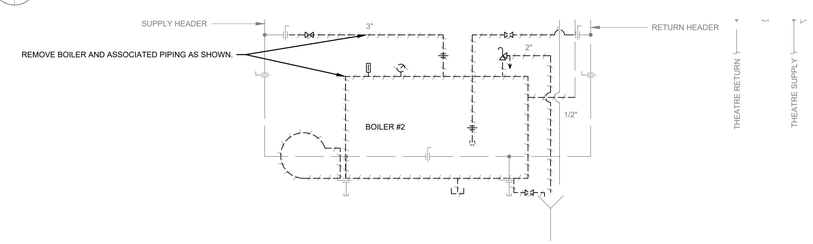
3 NEW BOILER PIPING SCHEMATIC (PHASE 3)

M 002 SCALE: N.T.S.



4 NEW BOILER PIPING SCHEMATIC (PHASE 4)

M 002 SCALE: N.T.S.



5 DEMOLITION BOILER PIPING SCHEMATIC (PHASE 5)

M 002 SCALE: N.T.S.

Prince Edward Island CANADA
Transportation, Infrastructure and Energy
Tel 902 368 5100
Fax 902 569 0590
www.princeedwardisland.ca
PO Box 2000
Charlottetown
Prince Edward Island
Canada C1A 7N8

KEY PLAN

PROJECT NORTH | TRUE NORTH

DATE	ISSUED FOR
2020.08.12	ISSUED FOR TENDER

CUSTOMER:
PROVINCE OF PRINCE EDWARD ISLAND
DEPARTMENT OF TRANSPORTATION, INFRASTRUCTURE, & ENERGY

PROJECT:
ACCESS PEI SUMMERSIDE
HEATING SYSTEM UPGRADE
120 HEATHER MOYSE DR., SUMMERSIDE, PE

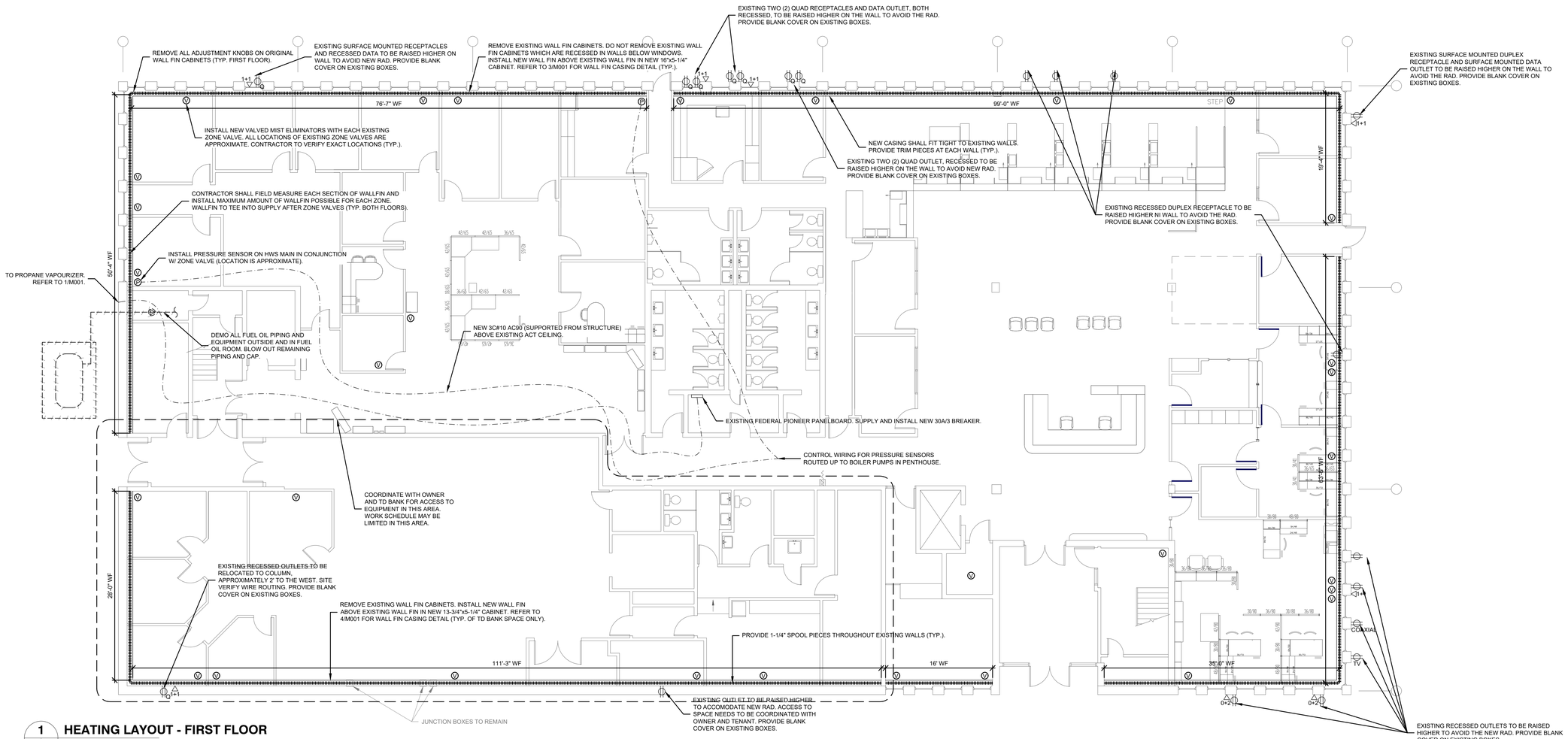
TITLE:
SCHEMATICS & PHASING

ORANGE DOOR ENGINEERING
49 WATER STREET, 2ND FLOOR
CHARLOTTETOWN PE, C1A 1A3
902.388.7685
JOE@ORANGEDOOR.ORG
WWW.ORANGEDOOR.ORG

PROFESSIONAL ENGINEER — J. Bystryk 1635 — 2020.08.12 — PROVINCE OF PRINCE EDWARD ISLAND

SCALE:	AS NOTED
DATE:	2020-07-21
JOB #:	2020-025
FILE:	2020-025_M
DRAWN BY:	DM

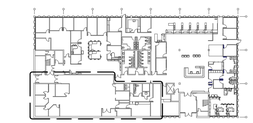
SHEET #: M002



1 HEATING LAYOUT - FIRST FLOOR

M 101 SCALE: 1/8" = 1'-0"

Prince Edward Island CANADA
Transportation, Infrastructure and Energy
Tel 902 368 5100
Fax 902 569 0590
www.princeedwardisland.ca
PO Box 2000
Charlottetown
Prince Edward Island
Canada C1A 7N8



KEY PLAN

PROJECT NORTH

TRUE NORTH

DATE	ISSUED FOR
2020.08.12	ISSUED FOR TENDER

CUSTOMER:
PROVINCE OF PRINCE EDWARD ISLAND
DEPARTMENT OF TRANSPORTATION, INFRASTRUCTURE, & ENERGY

PROJECT:
ACCESS PEI SUMMERSIDE
HEATING SYSTEM UPGRADE
120 HEATHER MOYSE DR., SUMMERSIDE, PE

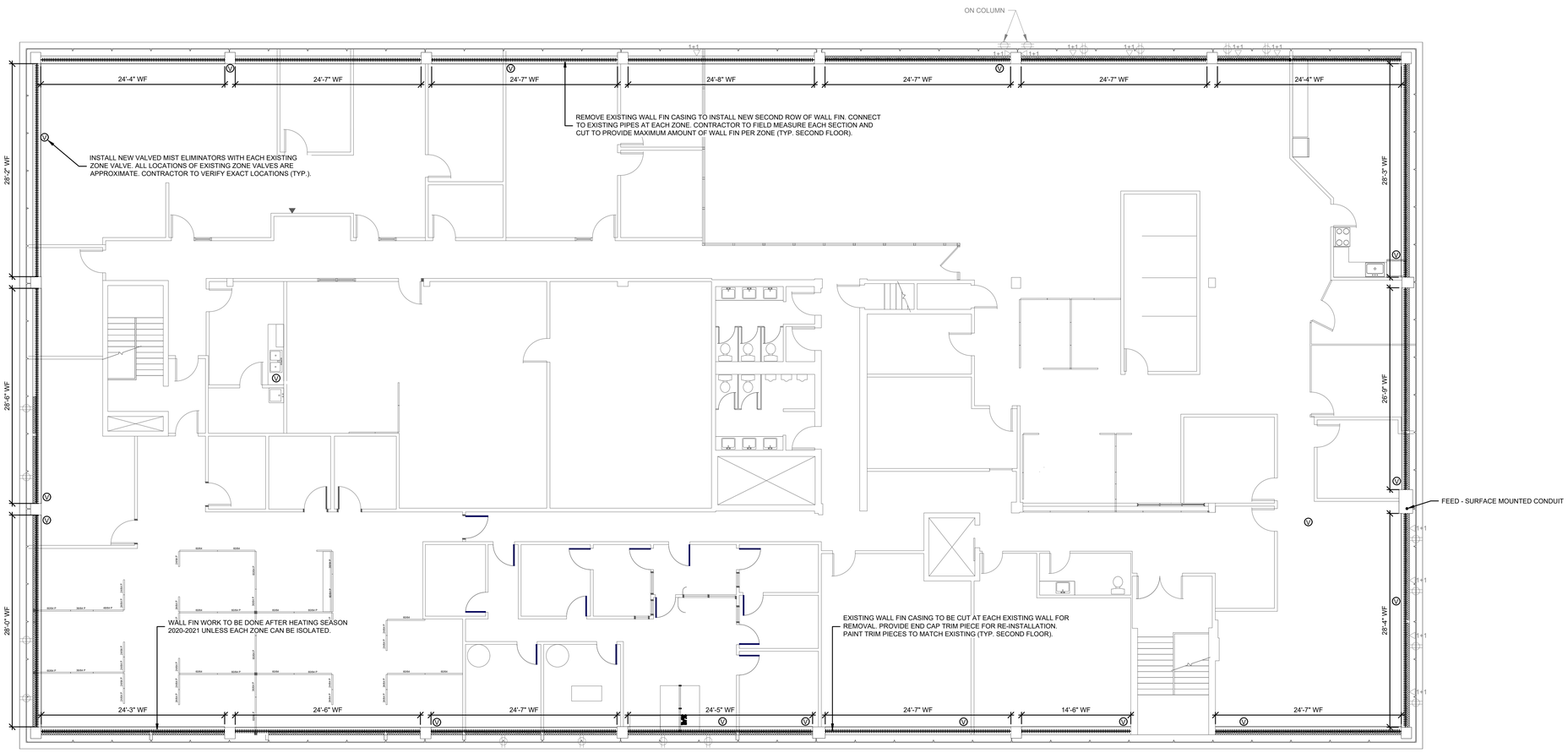
TITLE:
FIRST FLOOR HEATING LAYOUT

ORANGE DOOR ENGINEERING
49 WATER STREET, 2ND FLOOR
CHARLOTTETOWN PE, C1A 1A3
902.388.7685
JOE@ORANGEDOOR.ORG
WWW.ORANGEDOOR.ORG

PROFESSIONAL ENGINEER
The Association of Professional Engineers of The Province of Prince Edward Island
J.C. Bystryk
1635
2020.08.12
Date
PROVINCE OF PRINCE EDWARD ISLAND

SCALE:	AS NOTED
DATE:	2020-07-21
JOB #:	2020-025
FILE:	2020-025_M
DRAWN BY:	DM

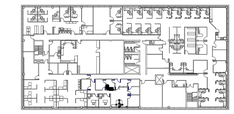
SHEET #: M101



1 HEATING LAYOUT - SECOND FLOOR

M 102 SCALE: 1/8" = 1'-0"

Prince Edward Island CANADA
Transportation, Infrastructure and Energy
Tel 902 368 5100
Fax 902 569 0590
www.princeedwardisland.ca
PO Box 2000
Charlottetown
Prince Edward Island
Canada C1A 7N8



KEY PLAN

PROJECT NORTH

TRUE NORTH

DATE	ISSUED FOR
2020.08.12	ISSUED FOR TENDER

CUSTOMER:
PROVINCE OF PRINCE EDWARD ISLAND
DEPARTMENT OF TRANSPORTATION, INFRASTRUCTURE, & ENERGY

PROJECT:
ACCESS PEI SUMMERSIDE
HEATING SYSTEM UPGRADE
120 HEATHER MOYSE DR., SUMMERSIDE, PE

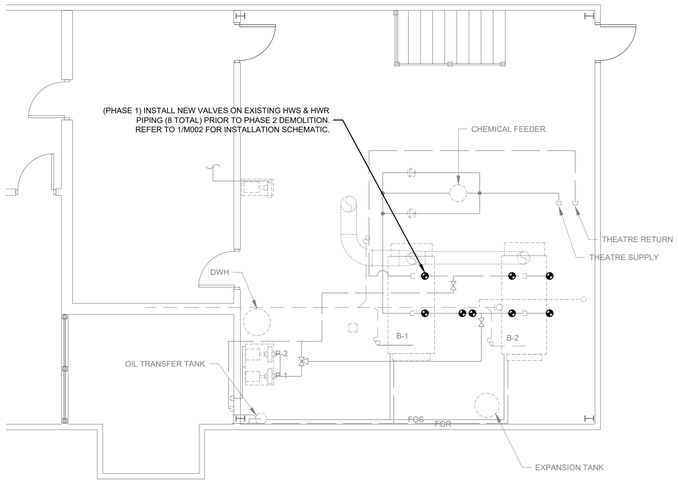
TITLE:
SECOND FLOOR HEATING LAYOUT

ORANGE DOOR ENGINEERING
49 WATER STREET, 2ND FLOOR
CHARLOTTETOWN PE, C1A 1A3
902.388.7685
JOE@ORANGEDOOR.ORG
WWW.ORANGEDOOR.ORG

PROFESSIONAL ENGINEER
THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF PRINCE EDWARD ISLAND
J.G. Bystryk
1835
2020-07-21
DATE
PROVINCE OF PRINCE EDWARD ISLAND

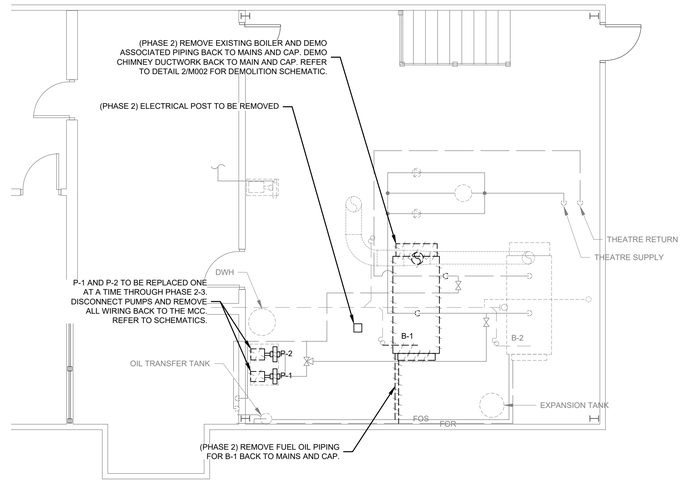
SCALE:	AS NOTED
DATE:	2020-07-21
JOB #:	2020-025
FILE:	2020-025_M
DRAWN BY:	DM

SHEET #: M102



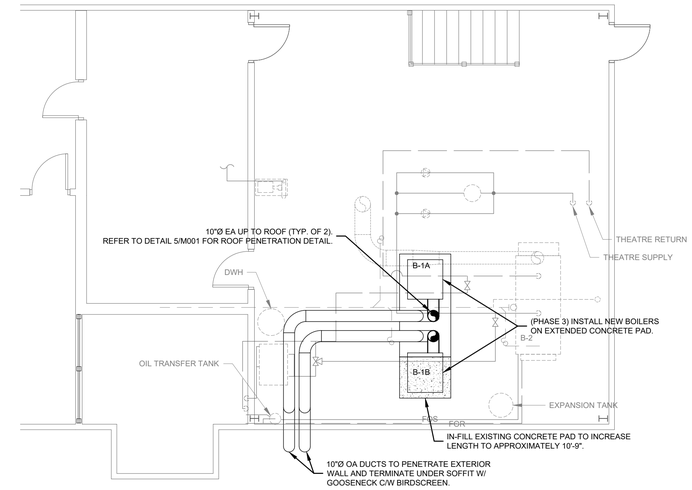
1 PENTHOUSE - NEW HEATING LAYOUT (PHASE 1)

M 103 SCALE: 3/16" = 1'-0"



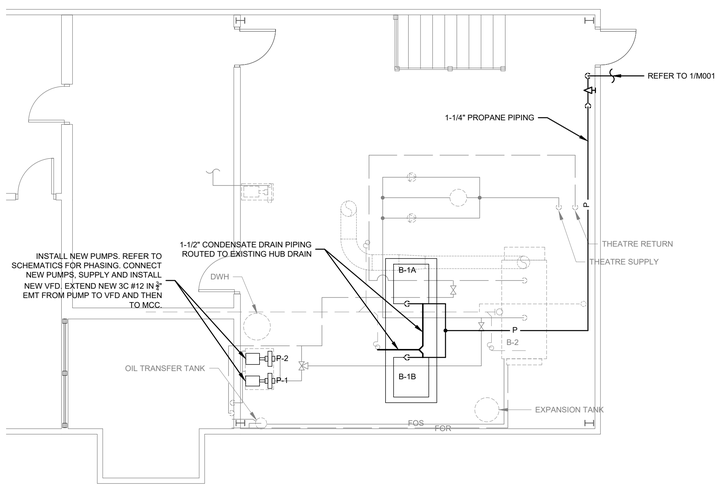
2 PENTHOUSE - DEMOLITION LAYOUT (PHASE 2)

M 103 SCALE: 3/16" = 1'-0"



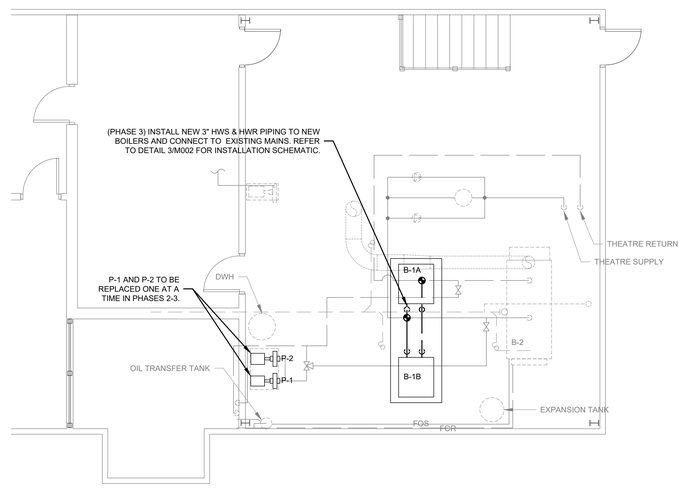
3 PENTHOUSE - NEW VENTILATION LAYOUT (PHASE 3)

M 103 SCALE: 3/16" = 1'-0"



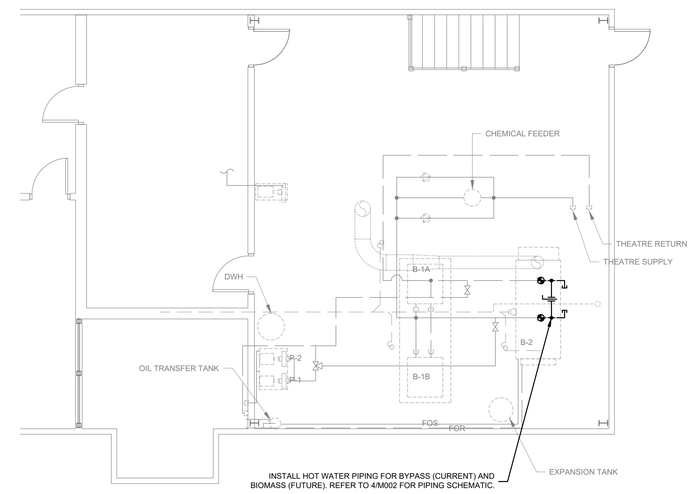
4 PENTHOUSE - NEW PLUMBING LAYOUT (PHASE 3)

M 103 SCALE: 3/16" = 1'-0"



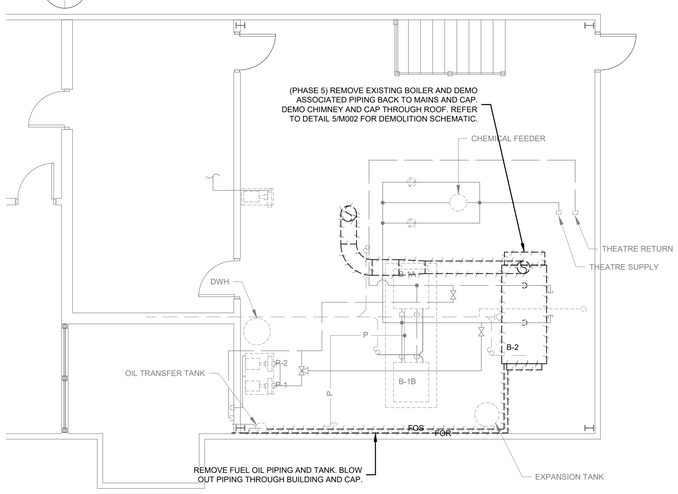
5 PENTHOUSE - NEW HEATING LAYOUT (PHASE 3)

M 103 SCALE: 3/16" = 1'-0"



6 PENTHOUSE - NEW HEATING LAYOUT (PHASE 4)

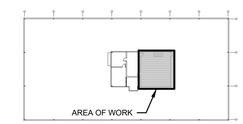
M 103 SCALE: 3/16" = 1'-0"



7 PENTHOUSE - DEMOLITION LAYOUT (PHASE 5)

M 103 SCALE: 3/16" = 1'-0"

Prince Edward Island CANADA
Transportation, Infrastructure and Energy
Tel 902 368 5100
Fax 902 569 0590
www.princeedwardisland.ca
PO Box 2000
Charlottetown
Prince Edward Island
Canada C1A 7N8



KEY PLAN

PROJECT NORTH | TRUE NORTH

DATE	ISSUED FOR
2020.08.12	ISSUED FOR TENDER

CUSTOMER:
PROVINCE OF PRINCE EDWARD ISLAND
DEPARTMENT OF TRANSPORTATION, INFRASTRUCTURE, & ENERGY

PROJECT:
ACCESS PEI SUMMERSIDE
HEATING SYSTEM UPGRADE
120 HEATHER MOYSE DR., SUMMERSIDE, PE

TITLE:
PENTHOUSE LAYOUTS

ORANGE DOOR ENGINEERING
49 WATER STREET, 2ND FLOOR
CHARLOTTETOWN PE, C1A 1A3
902.388.7685
JOE@ORANGEDOOR.ORG
WWW.ORANGEDOOR.ORG

PROFESSIONAL ENGINEER
The Association of Professional Engineers of the Province of Prince Edward Island
J.G.Bystryk
1635
2020-08-12
DATE
PROVINCE OF PRINCE EDWARD ISLAND

SCALE:	AS NOTED
DATE:	2020-07-21
JOB #:	2020-025
FILE:	2020-025_M
DRAWN BY:	DM

SHEET #: M103