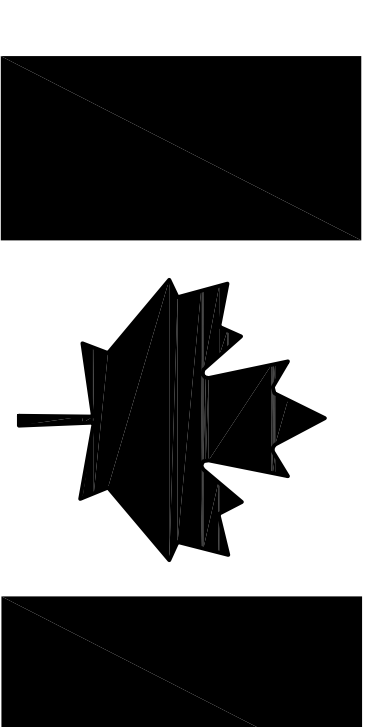


# FISHERIES AND OCEANS



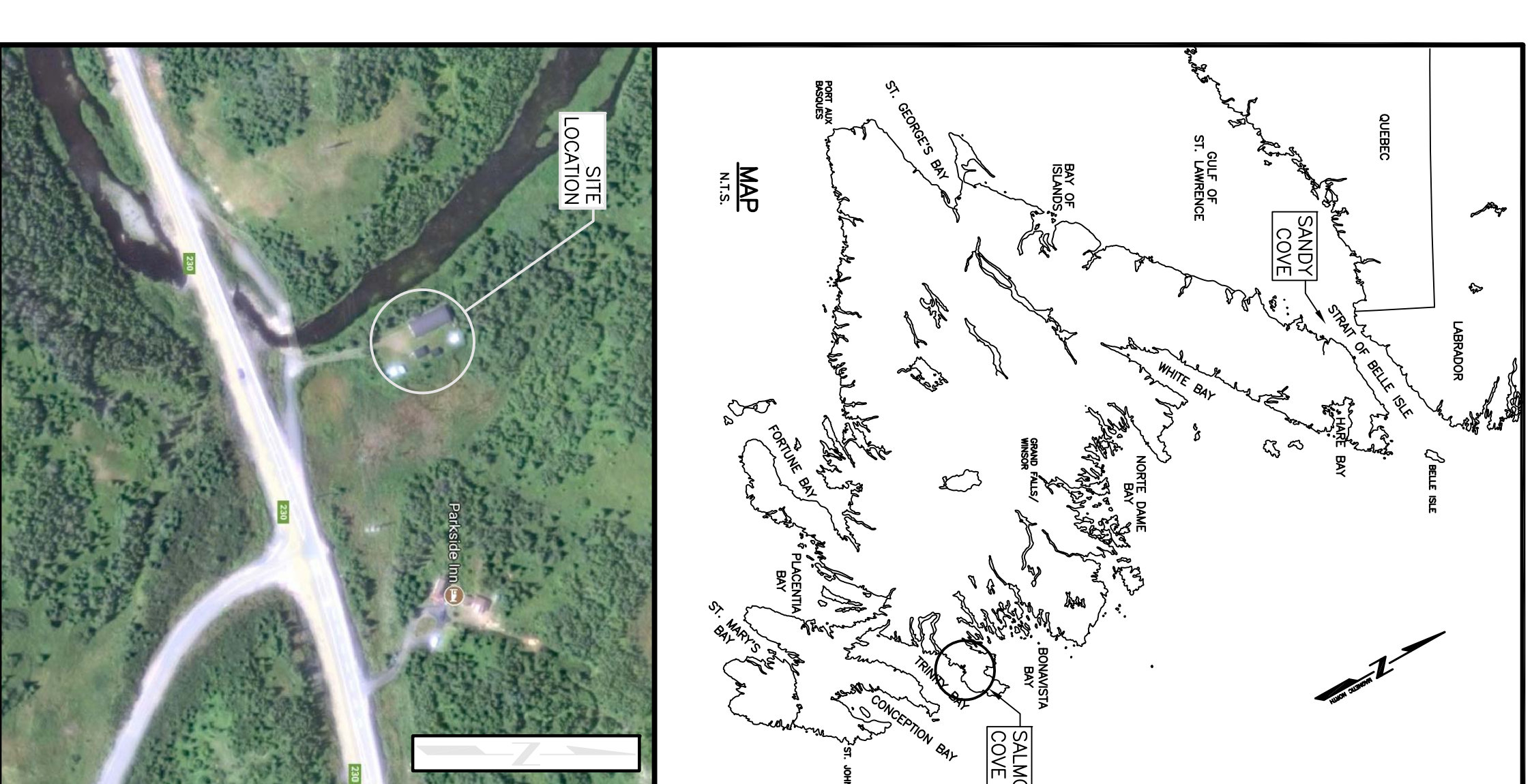
## SITE IMPROVEMENTS

**SALMON COVE RIVER COMPOUND  
PORT REXTON, NL**

PROJECT NO.: F6879-179009  
ISSUED FOR TENDER

DATE: AUGUST 24, 2017

CLIENT/OWNER:  
DEPARTMENT OF FISHERIES & OCEANS,  
REAL PROPERTY, SAFETY & SECURITY







GENERAL NOTES:

- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- DO NOT SCALE FROM DRAWINGS.

SCOPE OF WORK (SOW) NOTES:

- IN GENERAL, ALL WORKING IS INCLUDED IN THE CON. SCOPE OF WORK, AND AS FURTHER DEFINED ON THE DRAWINGS AND IN THE TECHNICAL SPECIFICATIONS:
- CLEARING, GRUBBING, EXCAVATION AND BACKFILLING:
    - THE EXISTING BUILDING LOT ENCLOSED BY CHAIN LINK FENCING IS OFF IN ITS ENTIRETY, UP TO AND INCLUDING 1.0m OUTSIDE THE EXISTING FENCE GRADE. THE ENTIRE SITE TO 200mm BELOW EXISTING GRADE, AND ALL CRIBBED MATERIAL OFF-SITE. SUPPLY AND INSTALL 150mm CLASS A MATERIAL TO RECOVER THE ENTIRE LOT, UP TO AND INCLUDING 1.0m GRADE. THE SOW INCLUDES THE REMOVAL OF ALL EXISTING MATERIAL, GRADE AND BOTTOM OF FENCE FABRIC. AT OWNER'S DISCRETION, SHARE THE FINISHED GRADE SO AS TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AND EQUIPMENT (E.G., BOAT AND SNOWMOBILE TRAILERS).
    - THE EXISTING ACCESS ROAD, APPROXIMATELY 50m LONG X 4m WIDE, BOWMANIA HIGHWAY, IS PARTIALLY COVERED WITH VEGETATION AND SHALL BE GRUBBED OFF FOR ITS FULL LENGTH AND WIDTH TO REMOVE ALL A LONG SURFACE AND SUPPLY AND INSTALL 150mm CLASS A MATERIAL OVER THE ENTIRE SURFACE. REMOVE TREES AND VEGETATION 1.5m EITHER SIDE OF THE EXISTING ROAD LENGTH AND BOTH BORN SIDES TO PROVIDE DRAINAGE.
  - POST REPAIRS: APPROXIMATELY 4 FENCE POSTS IN THE NE CORNER ARE LOOSE AND SHALL BE TEMPORARILY SUPPORTED AND SUBSEQUENTLY TO BE RE-SET. THE EXISTING POSTS TO REMOVE UNSERVICEABLE MATERIAL, AND BE OF 1m ALL AROUND EACH POST, UP TO 200mm BELOW FENCE FABRIC. POSTS TO BE RE-SET FLUSH.
  - FENCE REPAIRS: CONTRACTOR SHALL FULLY ASSESS EXTENT OF REPAIRS TO FENCE FABRIC. IF EXISTING FABRIC IS DAMAGED, SELECT TOP/BOTTOM/INTERMEDIATE RAILS AND DIAGONAL BRACING TO BE RECONNECTED TO THEIR SOCKETS. SELECT BROKEN BARBED WIRE SUPPORT AND TENSIONED. REPAIRS TO DAMAGED FENCE FABRIC ADJACENT TO VEHICLE GATE, AND REPAIR FENCE HARDWARE THROUGHOUT, INCLUDING TIE WIRE, TENSION BANDS, AND BOTTOM TENSION WIRE.
  - VEHICLE GATE: GATE AND MAN GATE TO RESTORE TO OPERATIONAL CONDITION, INCLUDING HINGE ADJUSTMENT FOR CLOSURE. NEW LOCK LATCH HARDWARE FOR PADLOCK. DROP PIN ON CHAIN LINK FENCING.

LEGEND:

- CAPPED IRON PIN
- UTILITY POLE
- COORDINATE MONUMENT
- CHAIN LINK FENCE LINE
- (E) EXISTING

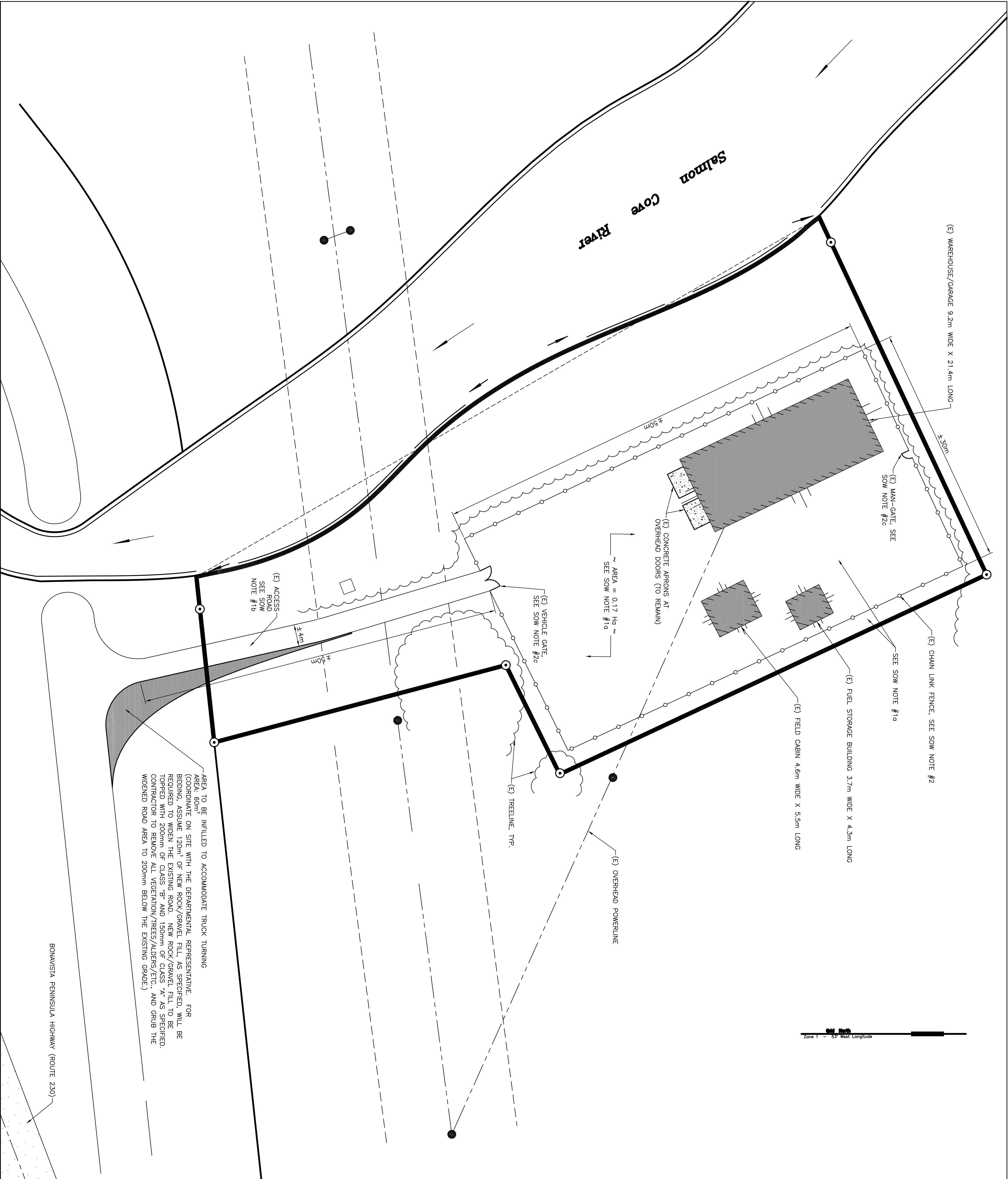
ISSUED FOR TENDER		8/24/17		P.H.		N.H.	
A	no.	ISSUED FOR REVIEW	8/9/17	P.H.	N.H.	no.	revision
Project - project							

SITE IMPROVEMENTS  
SALMON COVE RIVER COMPOUND  
PORT REXTON, NL

Drawing - design

SITE PLAN

drawn - design		designed - design		checked - design		approved for tender/approve pour /détail	
F. HUNT		R. BUTT		N. HUNT		approved for tender/approve pour /détail	
date - date		date - date		date - date		date - date	
AUGUST 24, 2017		AUGUST 24, 2017		AUGUST 24, 2017		AUGUST 24, 2017	
scale - échelle		scale - échelle		scale - échelle		scale - échelle	
N.T.S.		N.T.S.		N.T.S.		N.T.S.	
Project no. - projet no.		drawing no. - no. du dessin		sheet - feuille		sheet - feuille	
F5879-179009		02C0604A001.C1		C1		C1	





- GENERAL NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
  2. DO NOT SCALE FROM DRAWINGS.
  3. ALL WORK TO BE COMPLETED TO NATIONAL BUILDING CODE OF CANADA (NBC), LATEST EDITION.
  4. ALL DIMENSIONS ARE APPROXIMATE AND CONTRACTOR SHALL VERIFY ON SITE.

SCOPE OF WORK (SOW) NOTES:

- [illegible]

LEGEND:

- | (E)<br>(N) | EXISTING<br>NEW | EXISTING TO BE REPLACED WITH NEW<br>(E/N) |
|------------|-----------------|---|
|------------|-----------------|---|

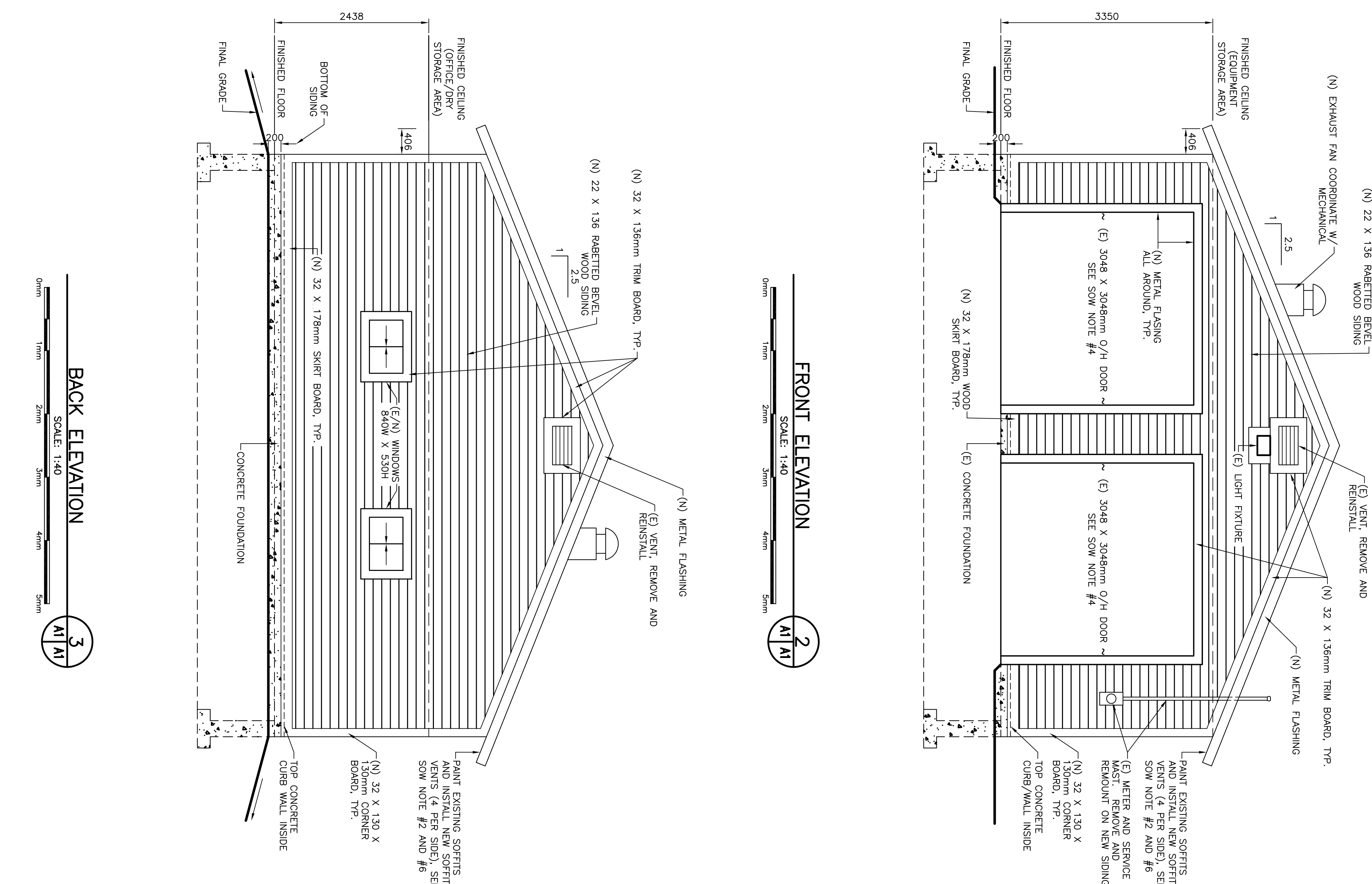
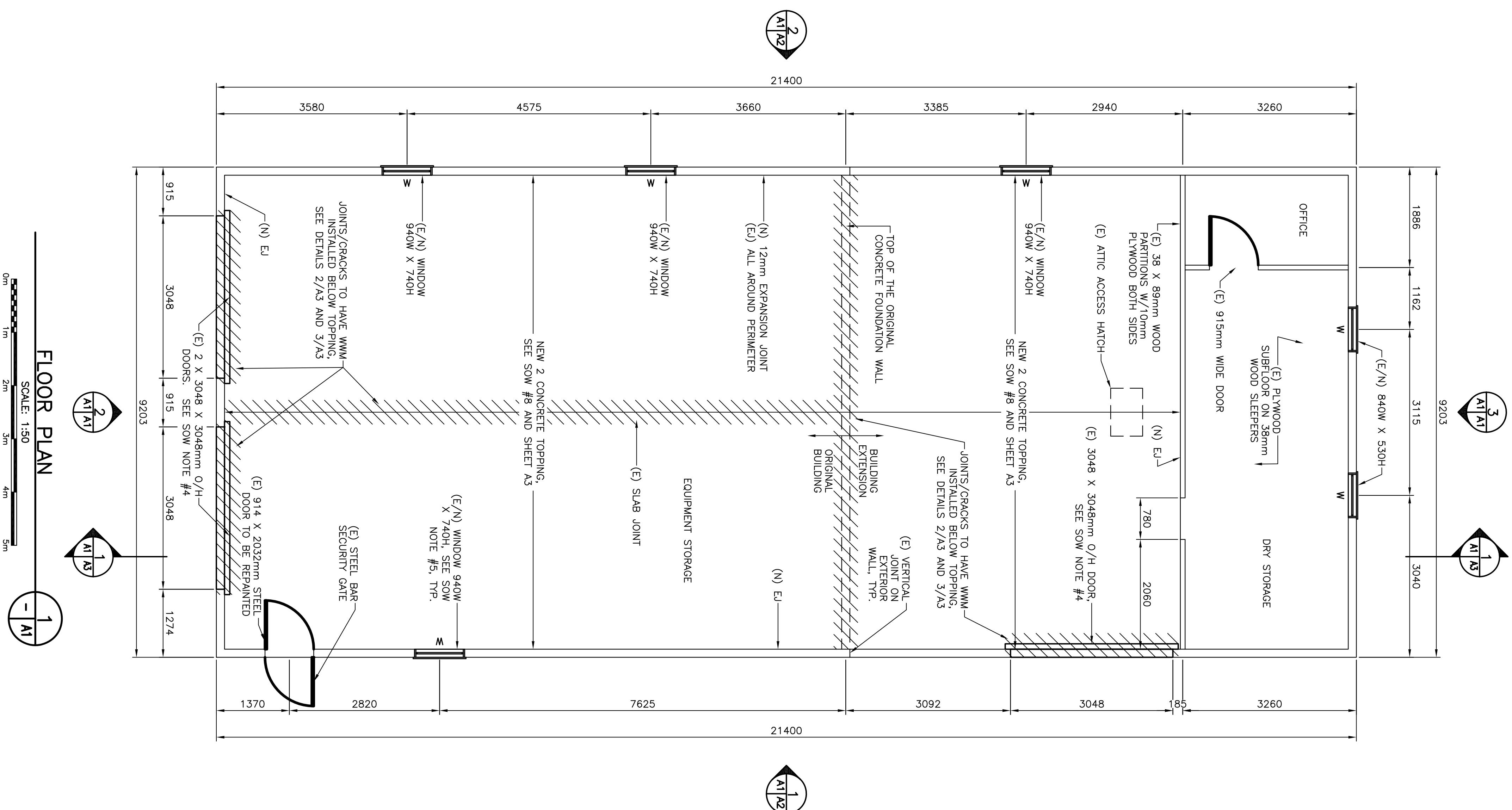
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A	ISSUED FOR REVIEW	8/9/17	P.H.	N.H.
no. revision no		date	by	approved
		date	for	approval

Project – projet  
SITE IMPROVEMENTS  
SALMON COVE RIVER COMPOUND  
PORT REXTON, NL

Drawing – dessin

WAREHOUSE/GARAGE PLAN AND  
ELEVATIONS

drawn - dessin	designed - dessiné par
P. HUNT	R. BUTT
date - date	checked - vérifié
AUGUST 24, 2017	N. HUNT
scale - échelle	approved for lender - approuvé pour l'emprunteur
AS SHOWN	
project no. - projet no.	drawing no. - no du dessin
F8379-179009	02C0B04A001A1
	sheet - feuille
	A1



## FLOOR PLAN

SCALE: 1:50



## BACK ELEVATION

SCALE: 1:40

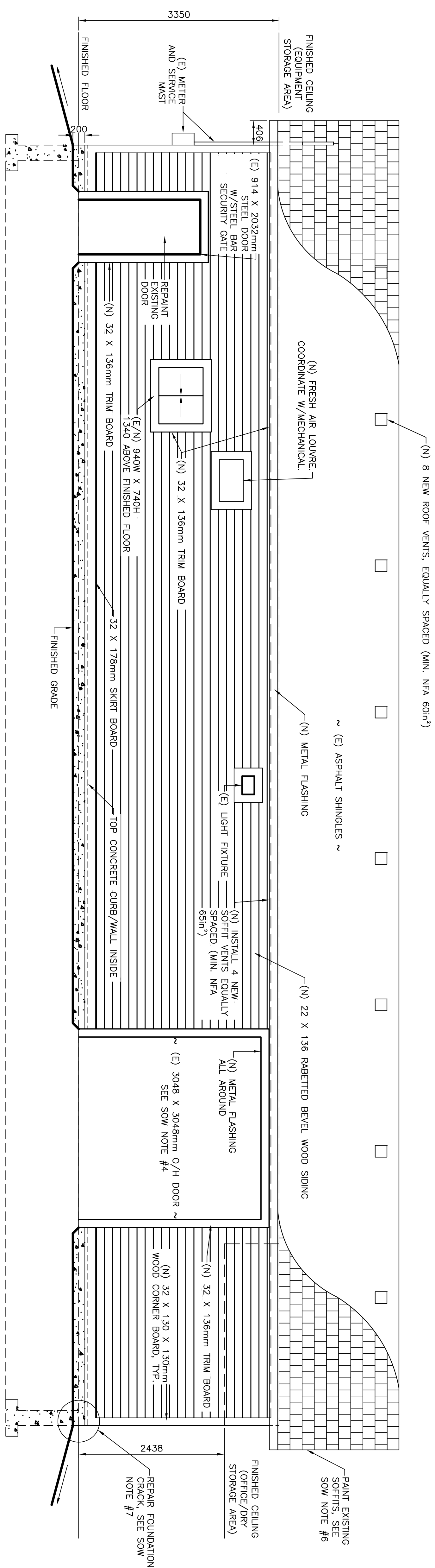
A vertical scale bar with markings at 0mm, 1mm, 2mm, 3mm, 4mm, and 5mm. The bar is black with white markings and text. The text 'SCALE: 1:40' is positioned to the left of the bar.



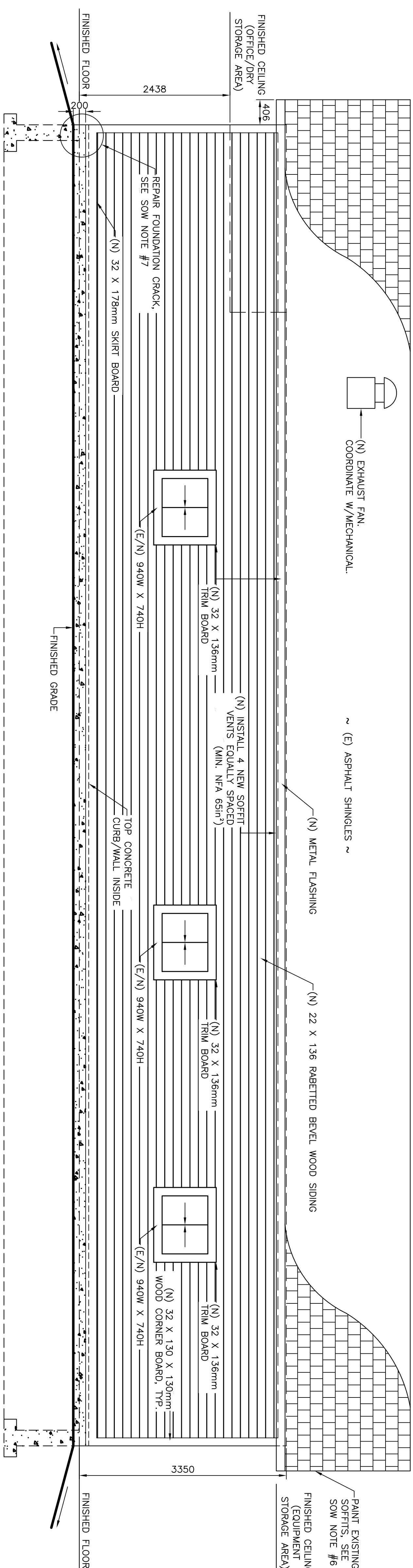


GENERAL NOTES:

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2. DO NOT SCALE FROM DRAWINGS.
3. ALL WORK TO BE COMPLETED TO NATIONAL BUILDING CODE OF CANADA.
4. APPROXIMATE DIMENSIONS ARE APPROXIMATE AND CONTRACTOR SHALL VERIFY ON SITE.
5. FOR SOW NOTES SEE SHEET A1.



RIGHT ELEVATION



LEFT ELEVATION



B	ISSUED FOR TENDER	8/24/17	P.H.	N.H.
A	ISSUED FOR REVIEW	8/9/17	P.H.	N.H.
no. revision no		date	by	approved
		date	par	approval

# SITE IMPROVEMENTS SALMON COVE RIVER COMPOUND

PORT REXTON, NL

WAREHOUSE/GARAGE  
ELEVATIONS

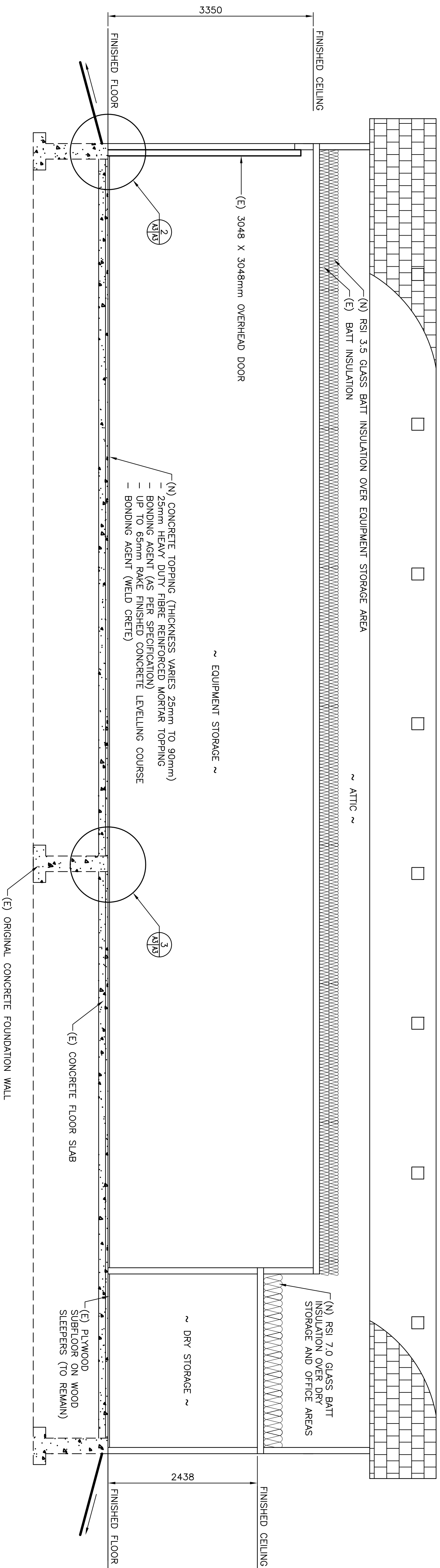
drawn - dessin	designed - dessiné par
P. HUNT	R. BUTT
date - date	checked - vérifié
AUGUST 24, 2017	N. HUNT
scale - échelle	approved for lender - approuvé pour l'emprunteur
AS SHOWN	
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	sheet - feuille
	A2



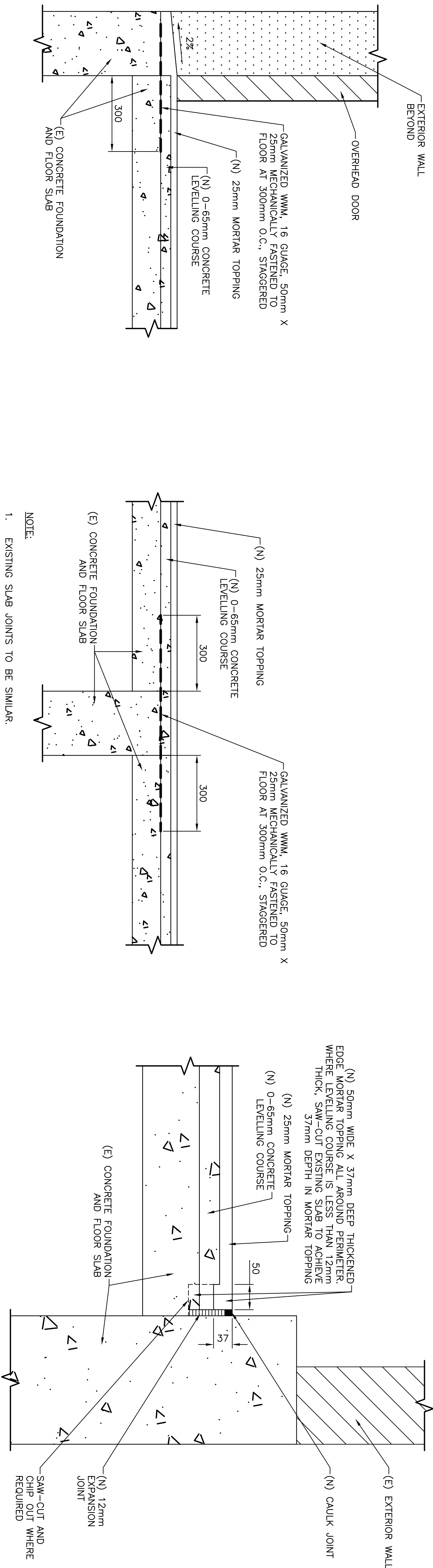


GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. DO NOT SCALE FROM DRAWINGS.
3. ALL DIMENSIONS ARE APPROXIMATE AND CONTRACTOR SHALL VERIFY ON SITE.
4. (NBCC), LATEST EDITION.
5. TO PLACEMENT OF NEW TOPPING SYSTEM.
6. MANUFACTURER'S INSTRUCTIONS, INCLUDING PRESSURE WASHING EXISTING SLAB AND LEVELLING COURSE TO REMOVE EXISTING PAINT, LOOSE MATERIAL, REPAIR HOLES IN SLAB (2 AT APPROXIMATE 150mm ø) SIMILAR TO DETAILS 3/AS.
7. (N) LEVELLING LAYER TO SURE 3 DAYS, THEN PRESSURE WASH PRIOR TO INSTALLING BONDING AGENT AND HEAVY DUTY OVERLAY.
8. (N) CONCRETE TOPPING (THICKNESS VARIES 25mm TO 90mm)
9. BONDING AGENT (AS PER SPECIFICATION)
10. UP TO 85mm RAKE FINISHED CONCRETE LEVELLING COURSE
11. BONDING AGENT (WELD CRICLE)



**BUILDING SECTION**  
SCALE: 1:40  
0mm 1mm 2mm 3mm 4mm 5mm



**DETAIL AT OVERHEAD DOOR (TYP. ALL 3 DOORS)**  
SCALE: 1:10  
0mm 100 200 300 400 500 600 700 800 900 1000mm

**DETAIL AT ORIGINAL FOUNDATION WALL**  
(FULL WIDTH OF BUILDING)  
SCALE: 1:10  
0mm 100 200 300 400 500 600 700 800 900 1000mm

**TYPICAL DETAIL AT PERIMETER**  
SCALE: 1:5  
0mm 100mm 200mm 300mm 400mm 500mm

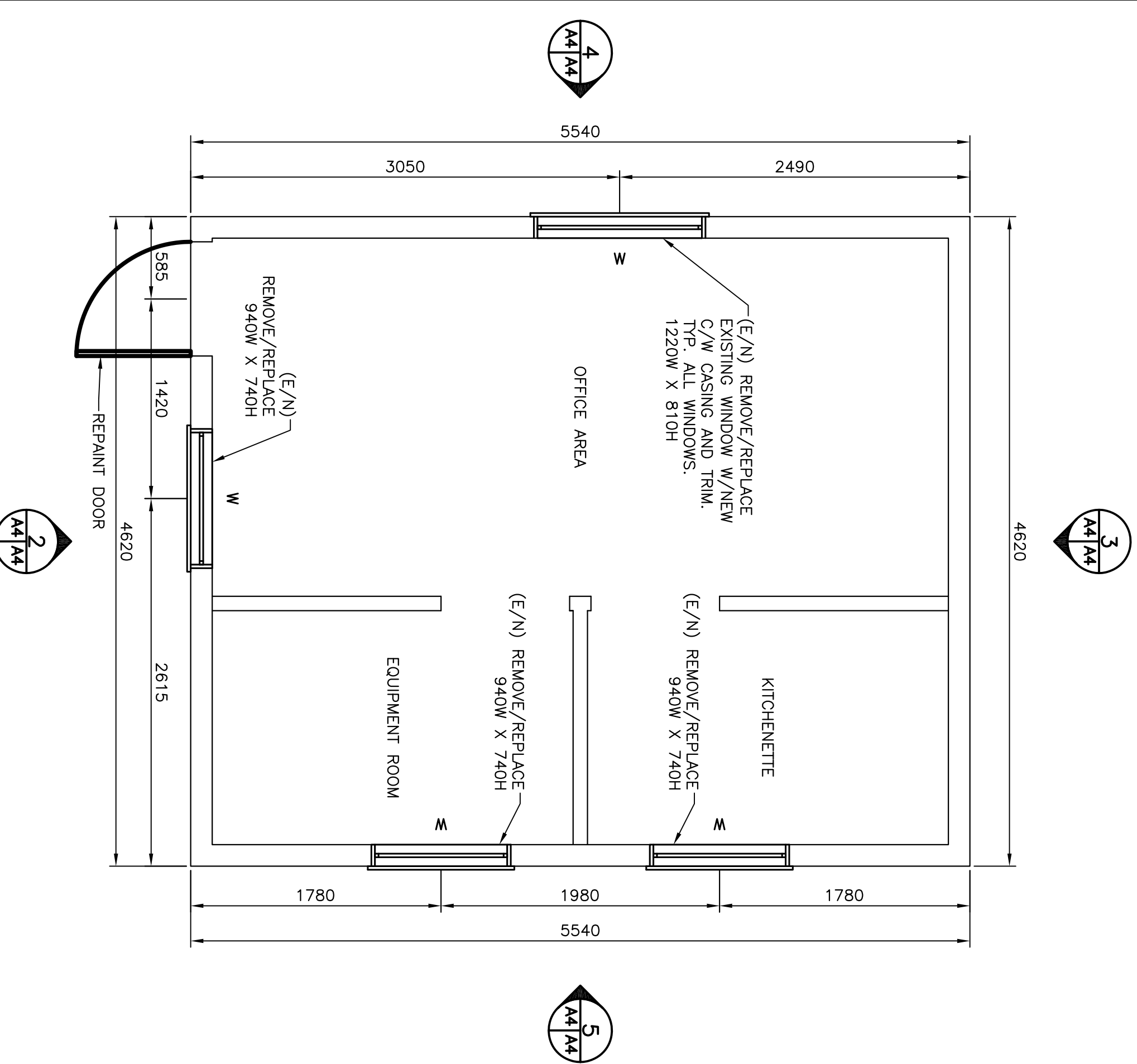
Project - project			
SITE IMPROVEMENTS			
SALMON COVE RIVER COMPOUND			
PORT REXTON, NL			
Drawing - design			
WAREHOUSE/GARAGE DETAILS			
drawn - design			
P. HUNT			
date - date			
AUGUST 24, 2017			
scale - scale			
AS SHOWN			
project no. - project no.			
15879-179009			
drawing no. - no. du dessin			
02C0604A001A3			
sheet - feuille			
A3			



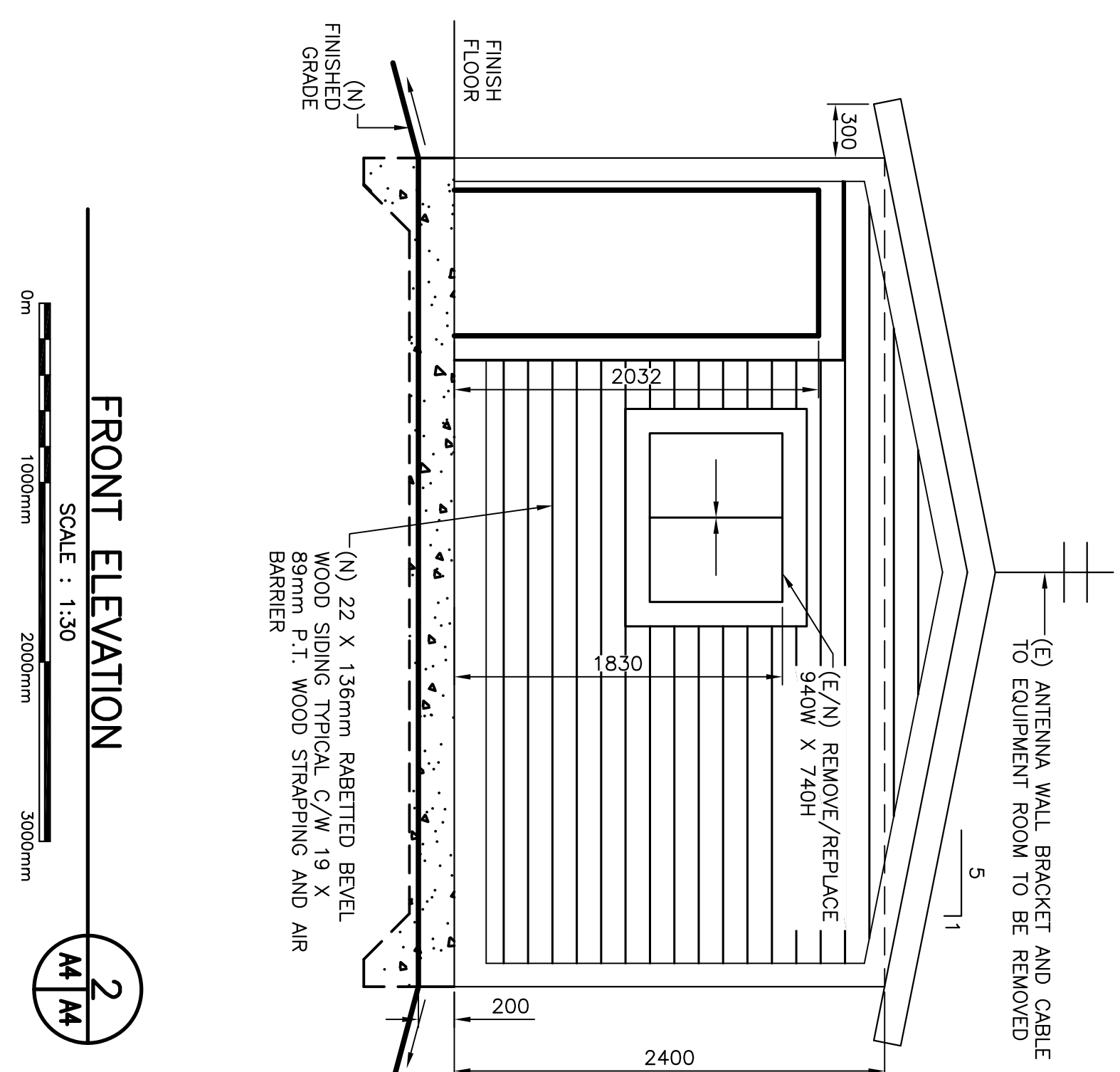
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4. ALL DIMENSIONS ARE APPROXIMATE AND CONTRACTOR SHALL VERIFY ON SITE.

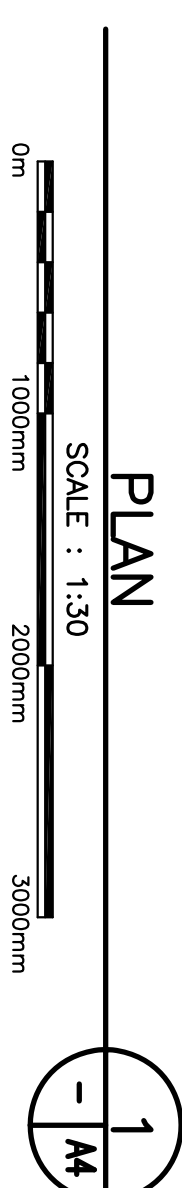
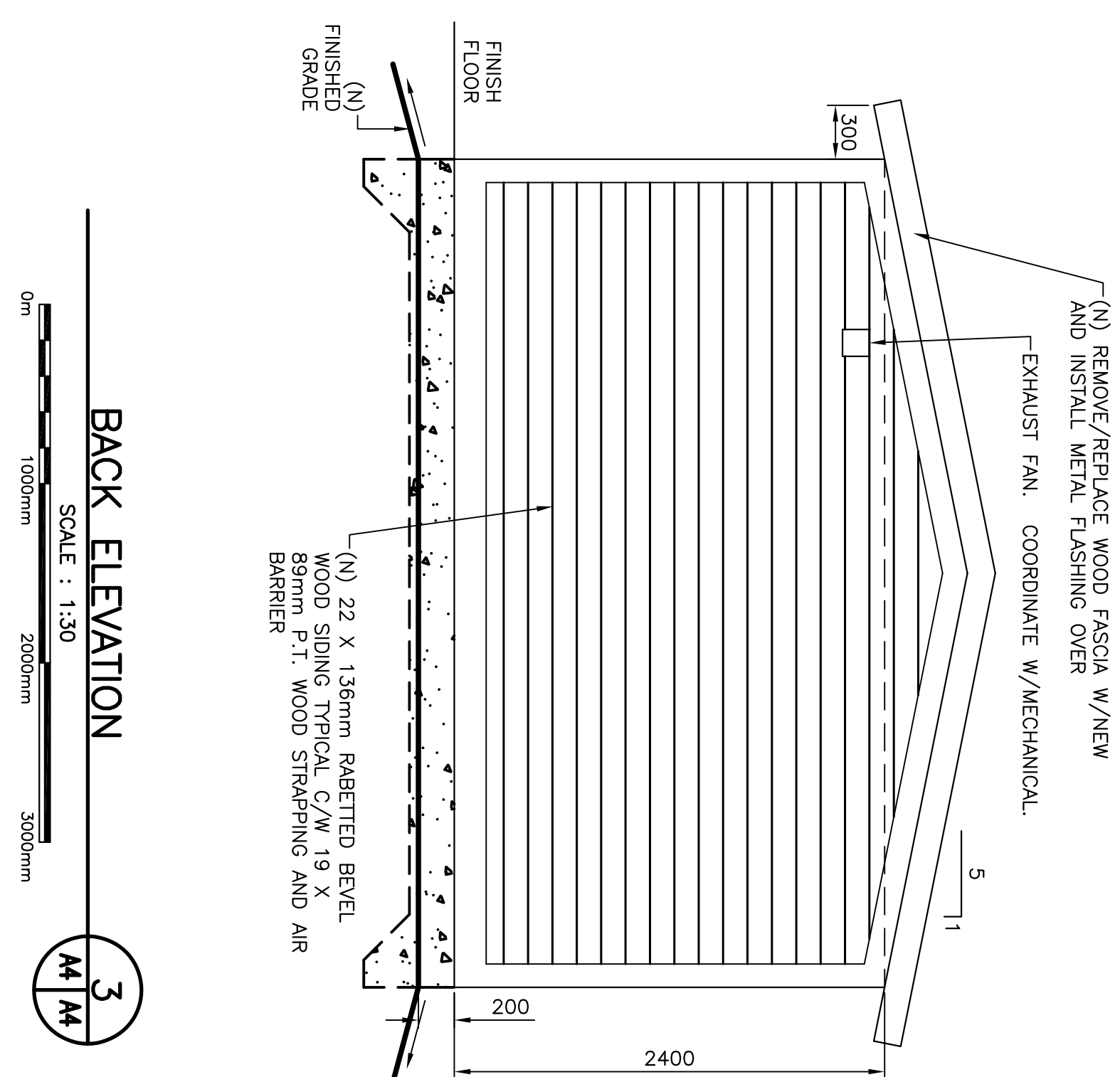
SCOPE OF WORK (SOW) NOTES:

[illegible]

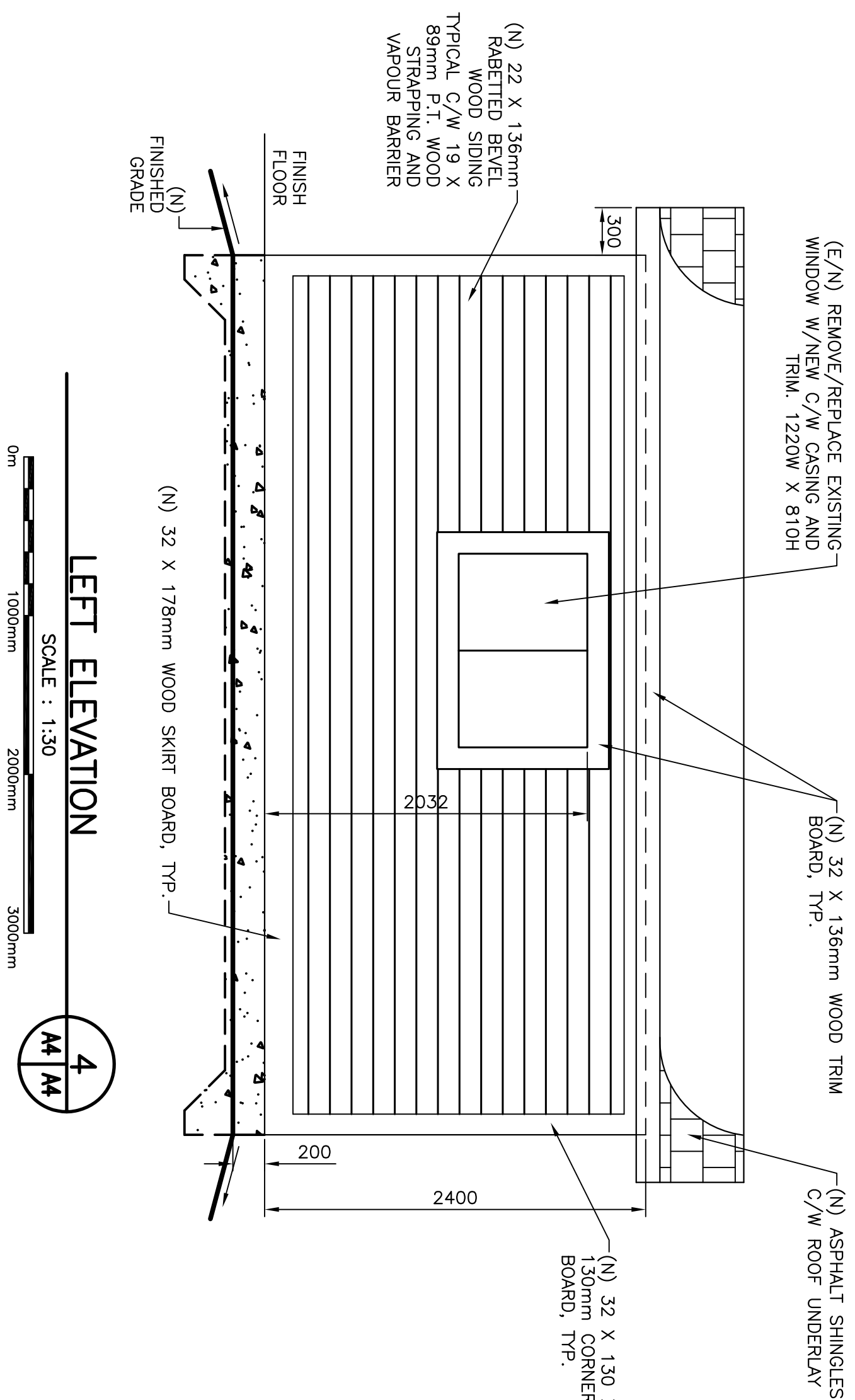
**FRONT ELEVATION**



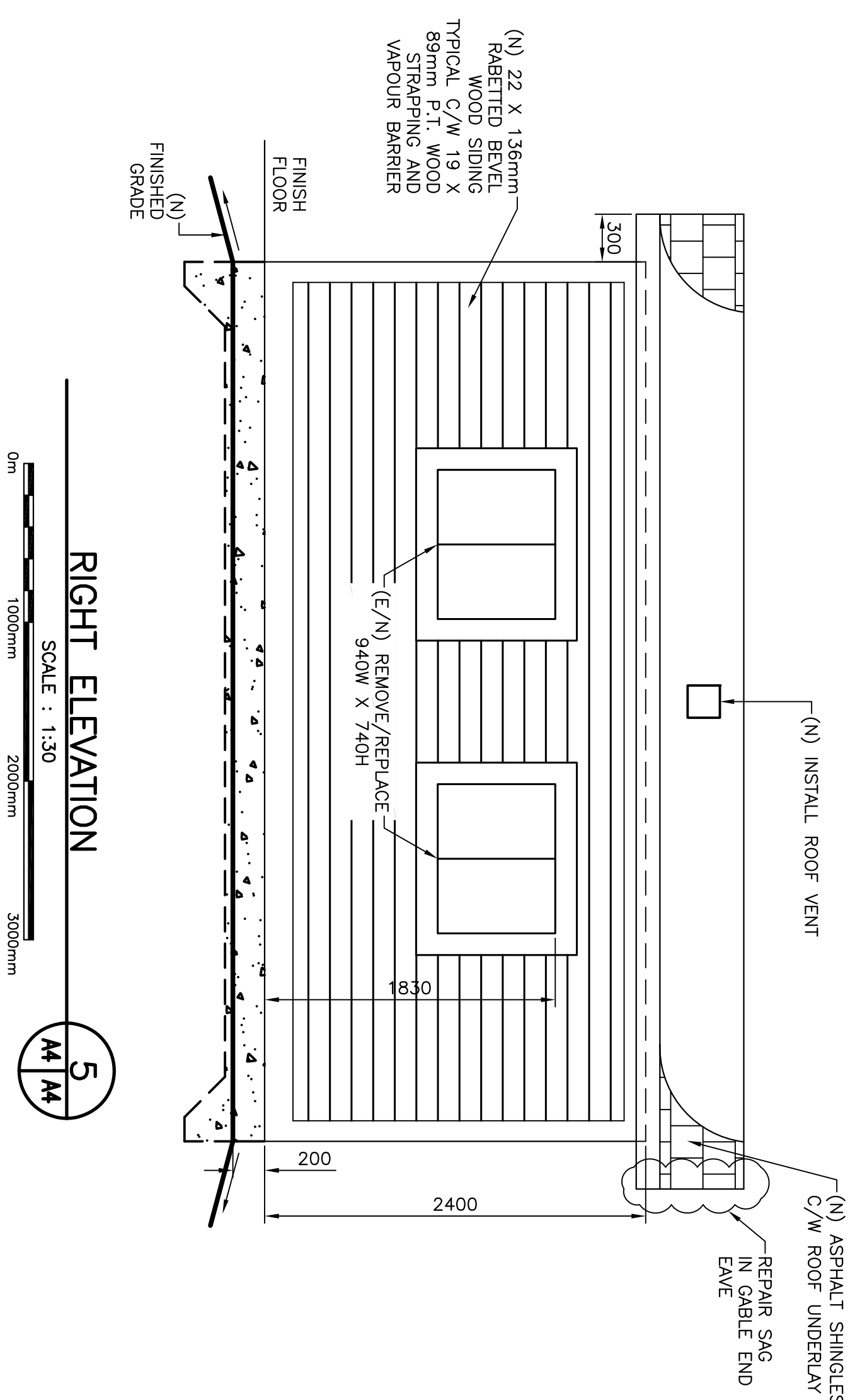
## BACK ELEVATION



## PLAN



LEFT ELEVATION



RIGHT ELEVATION

B	ISSUED FOR TENDER	8/24/17	P.H.	N.H.
A	ISSUED FOR REVIEW	8/9/17	P.H.	N.H.
no. no	revision revision	date date	by par	approve approve

Project - project  
SITE IMPROVEMENTS  
SALMON COVE RIVER COMPOUND

PORT REXTON, NL

Drawing - dessin

FIELD CABIN PLAN AND ELEVATIONS

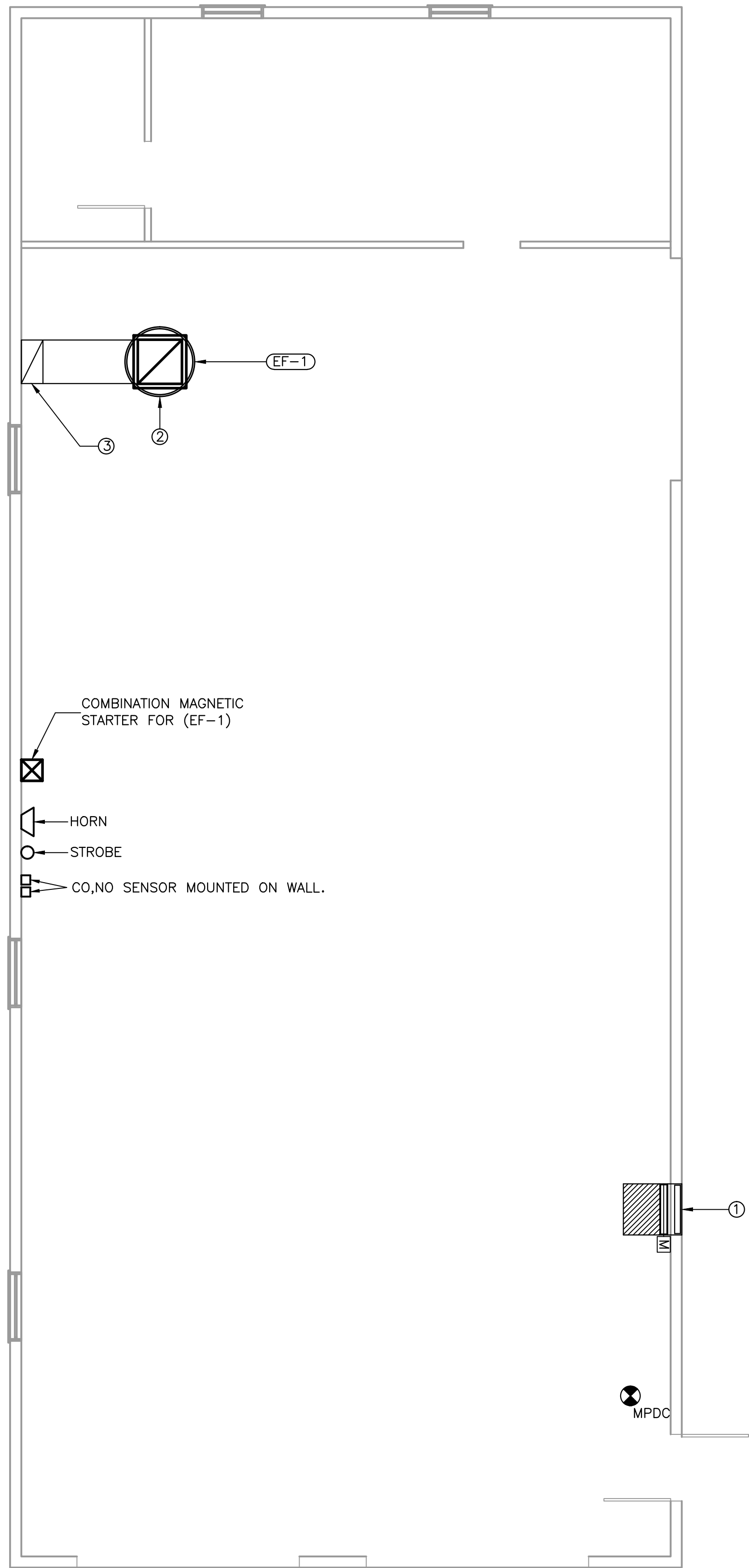
drawn - dessiné	P. HUNT	designed - dessiné par	R. BUTT
date - date	AUGUST 24, 2017	checked - vérifié	N. HUNT
scale - échelle	AS SHOWN	approved for tender - approuvé pour l'offre	
project no. - projet no.		drawing no. - no du dessin	A4
F6879-179009		02C0604A001A4	
			sheet - feuillet



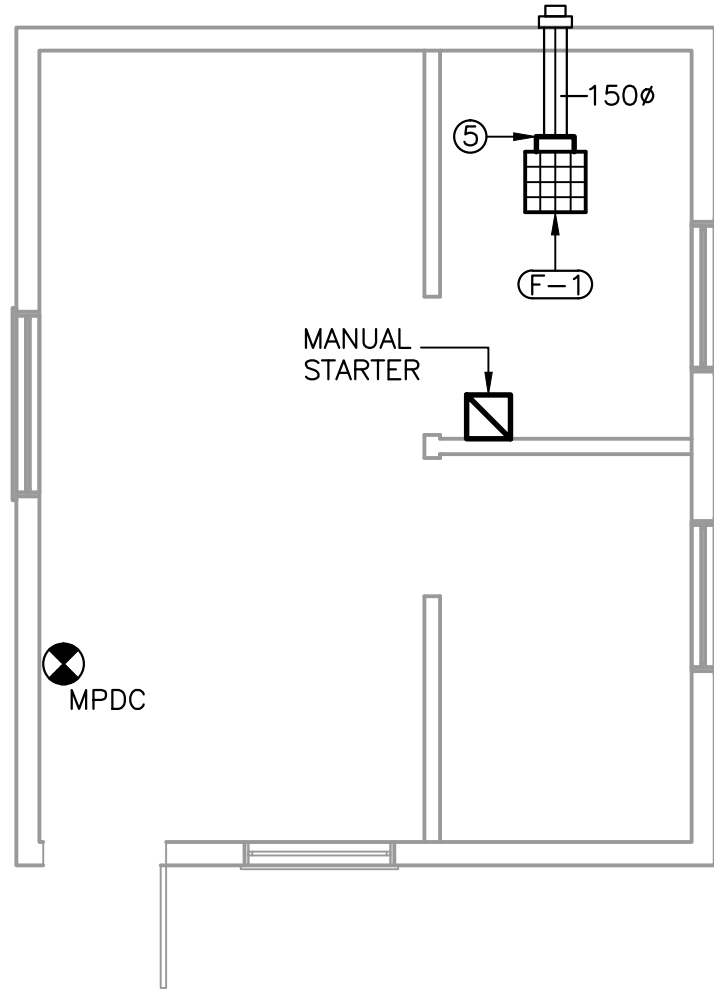
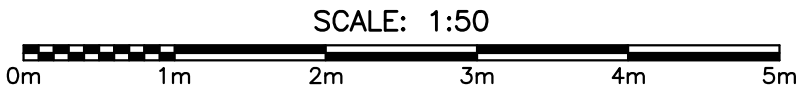
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Project – project  
SALMON COVE RIVER COMPOUND  
PORT REXTON, NL  
Drawing – design  
FUEL STORAGE BUILDING PLAN  
AND ELEVATIONS

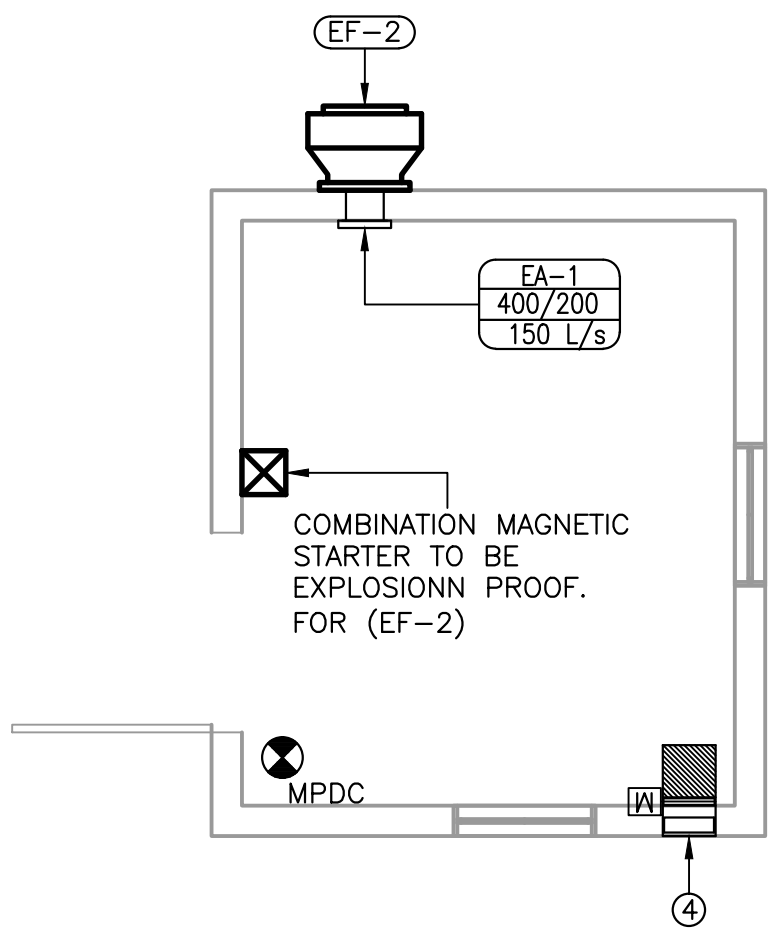
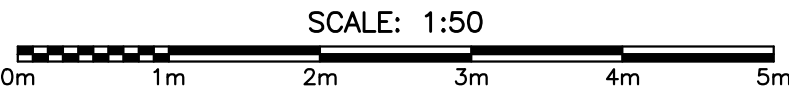
drawn - dessin	designed - dessin par
P. HUNT	R. BUTT
date - date	checked - vérifié
AUGUST 24, 2017	N. HUNT
scale - échelle	approved for tender - approve pour l'offre
AS SHOWN	
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	sheet - feuille
	A5



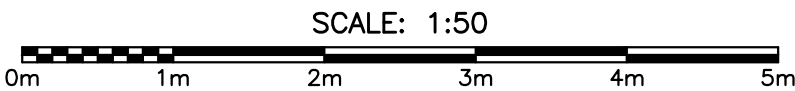
WAREHOUSE / GARAGE BLDG – VENTILATION LAYOUT



FIELD CABIN OFFICE – VENTILATION LAYOUT



FUEL STORAGE BLDG. – VENTILATION LAYOUT



MECHANICAL VENTILATION LEGEND:

VENTILATION	
	NEW DUCTWORK (DIMENSION = mm/mm)
	NEW ROUND FLEXIBLE DUCTWORK (DIMENSION = $\phi$ mm)
	ACOUSTIC INSULATED DUCTWORK (DIMENSION = mm/mm)
	BALANCING DAMPER
	SUPPLY/FRESH AIR DUCTS UP & DOWN
	CIRCULAR DUCTWORK (DIMENSION = mm $\phi$ )
	RETURN/EXHAUST AIR DUCTS UP & DOWN
	TYPICAL 90° DUCT ELBOWS; (R/W = 1.0 & w TURNING VANES)
	TYPE COLLAR/NECK SIZE AIRFLOW L/s
	DIFFUSER/GRILLE TAG
	24 VOLT CONTROL WIRING BY MECHANICAL.
	MOTORIZED DAMPER SUPPLIED AND INSTALLED BY MECHANICAL WIRED BY ELECTRICAL
	FIRE EXTINGUISHER, MULTIPURPOSE DRY CHEMICAL TYPE (4.5 KG)
	MANUAL STARTER
	COMBINATION MAGNETIC STARTER

DRAWING NOTES:

- 700/400 STORMPROOF FRESH AIR LOUVER EQUAL TO VENTEX MODEL 2425 C/W BIRDSCREEN. PROVIDE TAMCO SERIES 9000 INSULATED DAMPER AND THERMALLY INSULATED DUCTWORK WITH WATERTIGHT PLENUM.
- OUTLINE OF EXHAUST FAN ON ROOF C/W CURB, ROOF SLOPE TO BE DETERMINED ON SITE BY CONTRACTOR. SEE DETAIL 6/M-2.
- 600/300 EXHAUST DUCT DOWN. TRANSITION TO 400/250 AFTER TOP GRILLE INSTALLATION AND RUN DOWN WALL TO 300mm A.F.F. WITH SECOND GRILLE TO BE TYPE EA-1 SIZED 300/600 BALANCED AT 446 L/S. DUCT TO BE SECURED TO STRUCTURE AS PER DETAIL 5/M-2. TWO GRILLES AT EACH DUCT DROP. TOP OF UPPER GRILLE TO BE 4000mm A.F.F. SEE DETAIL 3/M-2.
- 350/200 STORMPROOF FRESH AIR LOUVER EQUAL TO VENTEX MODEL 2425 C/W BIRDSCREEN. PROVIDE TAMCO SERIES 9000 INSULATED DAMPER AND THERMALLY INSULATED DUCTWORK WITH WATERTIGHT PLENUM.
- F-1 AND ASSOCIATED DUCT WORK TO BE INSTALLED BELOW CEILING.

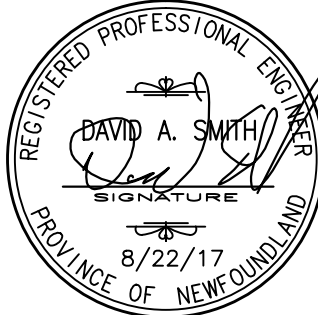


Fisheries  
and Oceans

Real Property,  
Safety & Security

Pêches  
et Océans

Biens immobiliers,  
protection et sécurité



PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
Class "A"  
This Permit Allows  
**CROSBIE ENGINEERING LIMITED**

To practice Professional Engineering  
in Newfoundland and Labrador  
Permit No. as issued by PEG-NL D0123  
which is valid for the year 2017.

0	ISSUED FOR TENDER	8/22/17	M.K.	D.S.
A	ISSUED FOR REVIEW	8/18/17	M.K.	D.S.
no.	revision	date	by	approved
no.	revision	date	par	approuve

Project – projet  
**SITE IMPROVEMENTS  
SALMON COVE RIVER COMPOUND**  
**PORT REXTON, NL**

Drawing – dessin

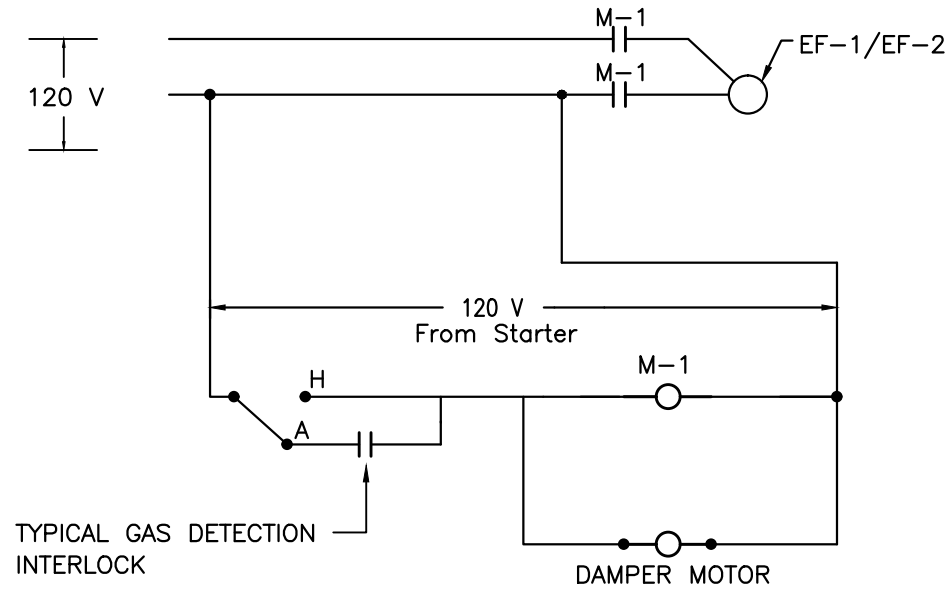
FLOOR PLANS – MECHANICAL LAYOUTS

drawn – dessiné M.K.	designed – dessinée par D.S.	
date – date AUGUST, 2017	checked – vérifiée D.S.	
scale – échelle AS NOTED	approved for tender – approuvée pour l'offre	
project no. – projet no. F6879-179009	drawing no. – no du dessin 020604A001M1	sheet – feuille M1



GRILLE/REGISTER AND DIFFUSER SCHEDULE										
NO.	MANUF.	MODEL NO.	CONNECTION OR NECK SIZE	OR FACE SIZE (mm)	PATTERN	NUMBER OF SLOTS	MOUNTING TYPE	ACCESSORIES	FINISH	REMARKS
EA-1	E. H. PRICE	520D/F/L/A	AS SHOWN	—	—	—	SURFACE MOUNTED	—	B-12	C/W OPPOSED BLADE DAMPER.

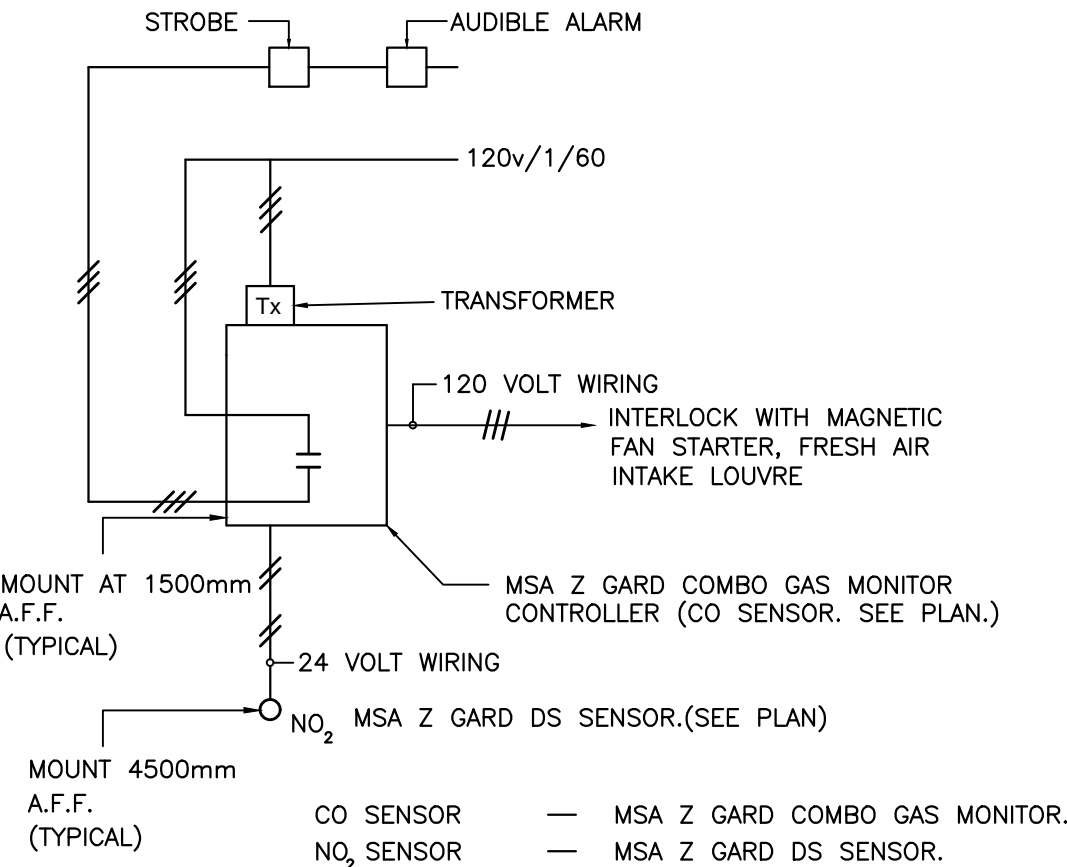
FAN SCHEDULE																
DWG TAG	LOCATION	APPLICATION	MANUFACTURER	MODEL	TYPE	CAPACITY	PRESSURE LOSS		DRIVE	CURB	R.P.M.	MOTOR	ELECTRICAL	SONES	REMARKS	
						l/s	Pa	in. wg				H.P. WATT				
EF-1	WAREHOUSE ROOF	GAS DETECTION	TWIN CITY	BCRU-210B	ROOFTOP FAN	891	—	.4	BELT	YES	727	.25 —	120/1/60	—	C/W COMBINATION MAGNETIC STARTER & DISCONNECT, BACKDRAFT DAMPER. C/W SLOPED ROOF CURB.	
EF-2	SIDEWALL	GENERAL VENTILATION	TWIN CITY	BCRW-110B	SIDEWALL FAN	150	—	.250	BELT	NO	543	.33 —	120/1/60	—	C/W EXPLOSION PROOF MOTOR & EXPLOSION PROOF ELECTRICAL DISCONNECT SWITCH, BACKDRAFT DAMPER,	
F-1	CEILING	GENERAL VENTILATION	GREENHECK	SP-B90-Q	CEILING FAN	35	—	.250	BELT	NO	700	.33 —	120/1/60	—	C/W ELECTRICAL DISCONNECT SWITCH, BACKDRAFT DAMPER, WALL CAP C/W BIRDSCREEN, RELAY	



CONTROL DIAGRAM FOR EXHAUST FAN(S) EF-1 & 2

SCALE = N.T.S.

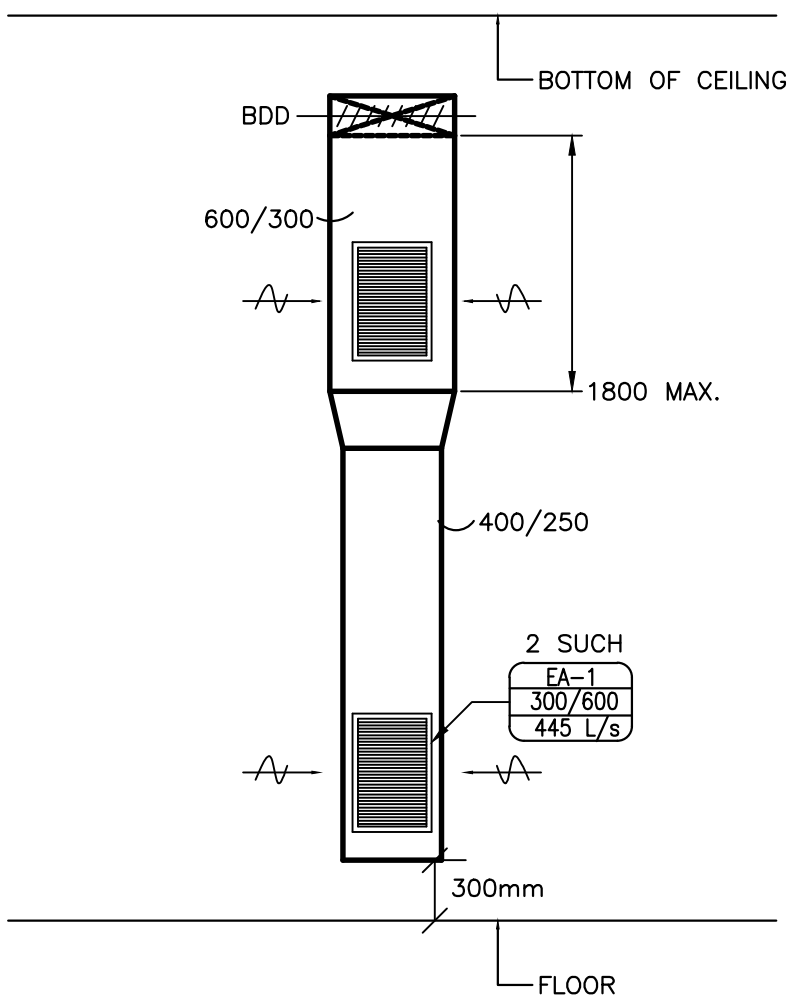
1  
M-2



GAS DETECTION SYSTEM

SCALE = N.T.S.

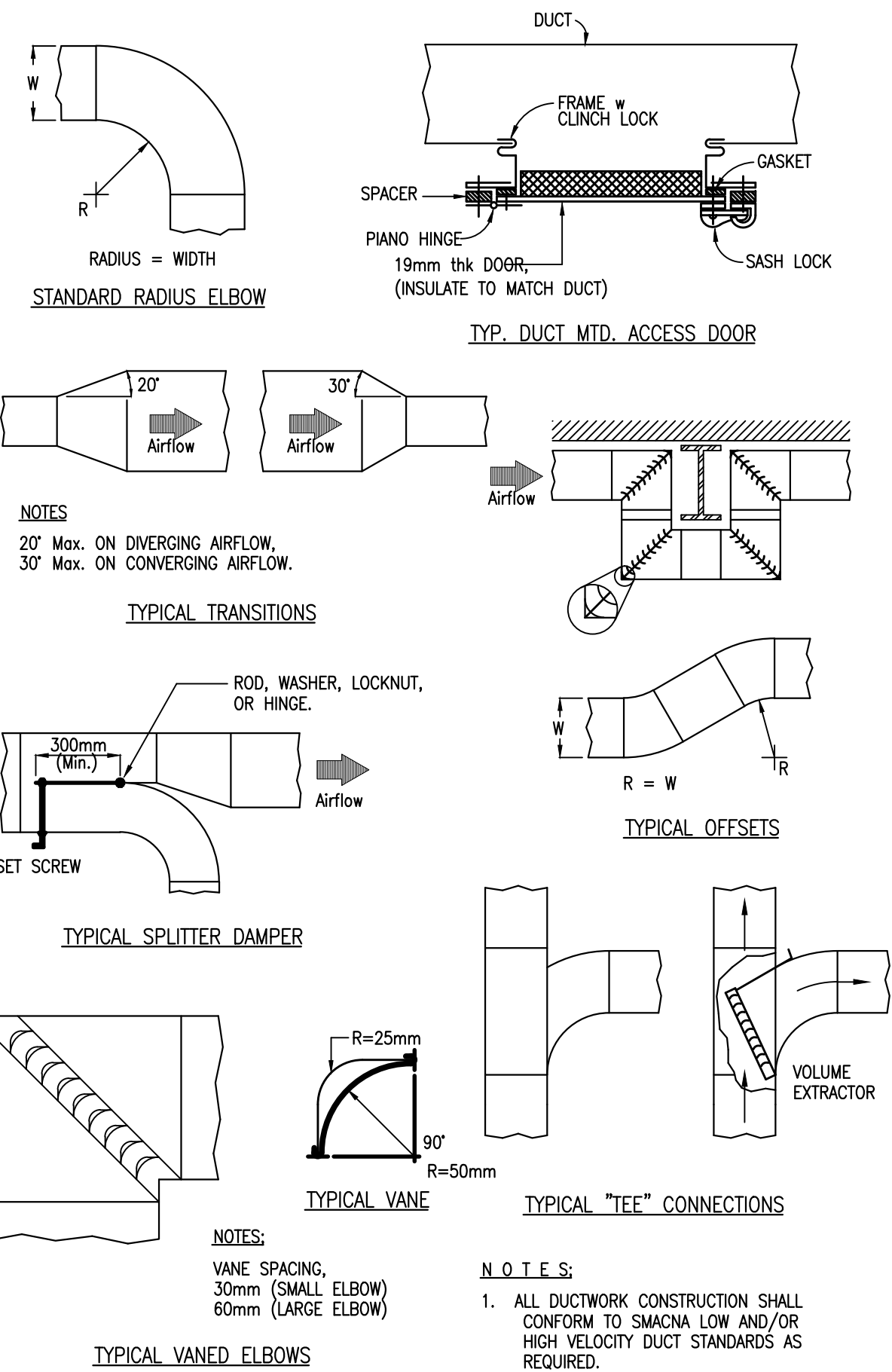
2  
M-2



EXHAUST DUCT DROP DOWN BY WALL  
GAS DETECTION SYSTEM (TYP.)

SCALE = N.T.S.

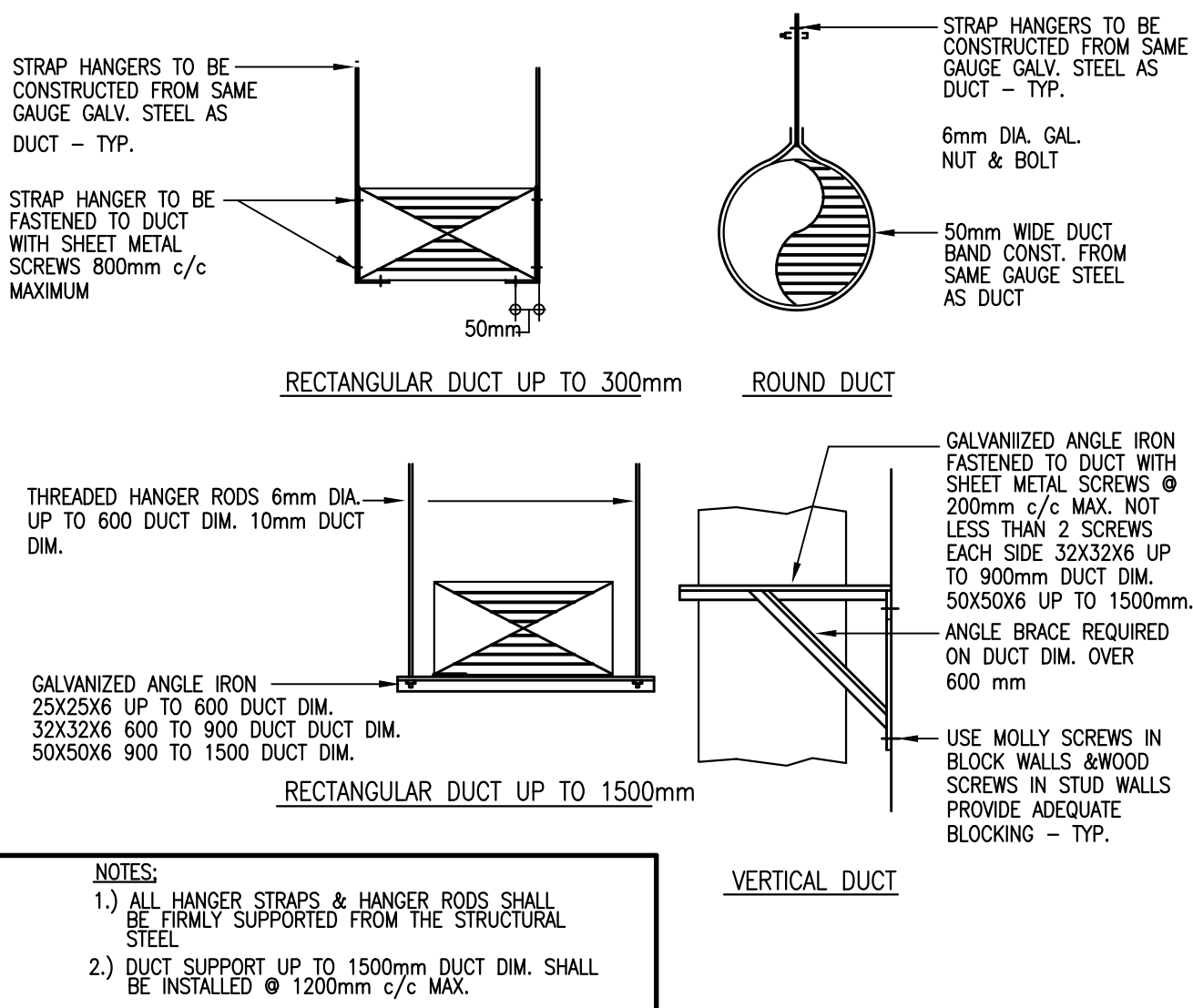
3  
M-2



TYPICAL DUCT CONSTRUCTION DETAILS

SCALE = N.T.S.

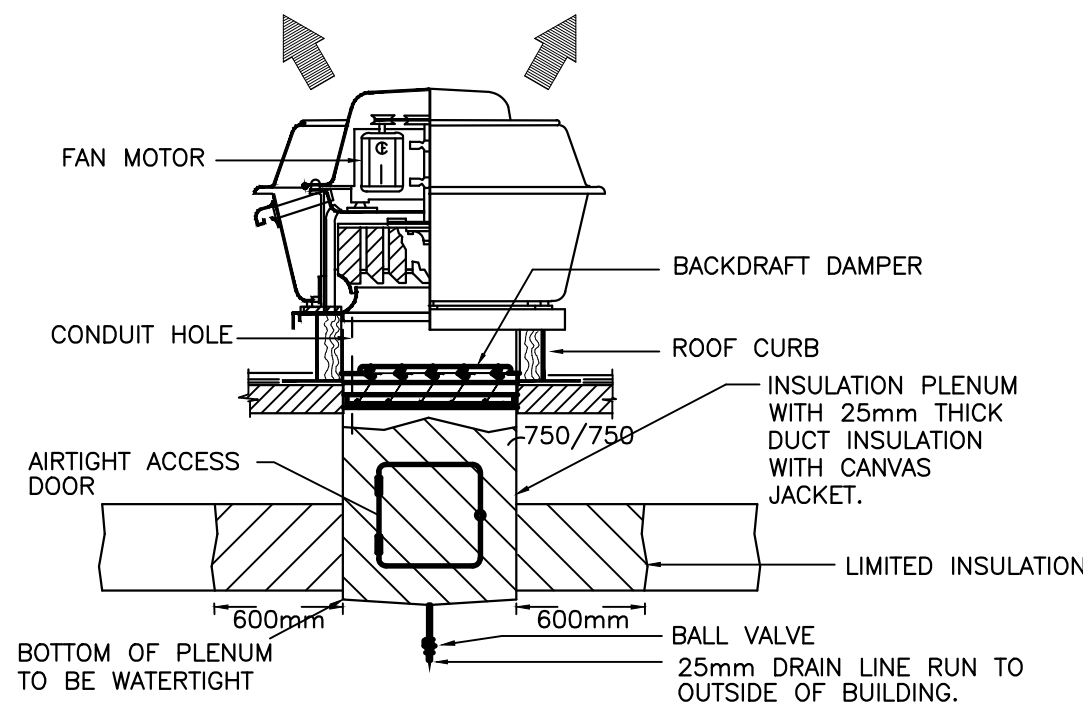
4  
M-2



DETAIL - TYP. DUCT SUPPORTS

SCALE = N.T.S.

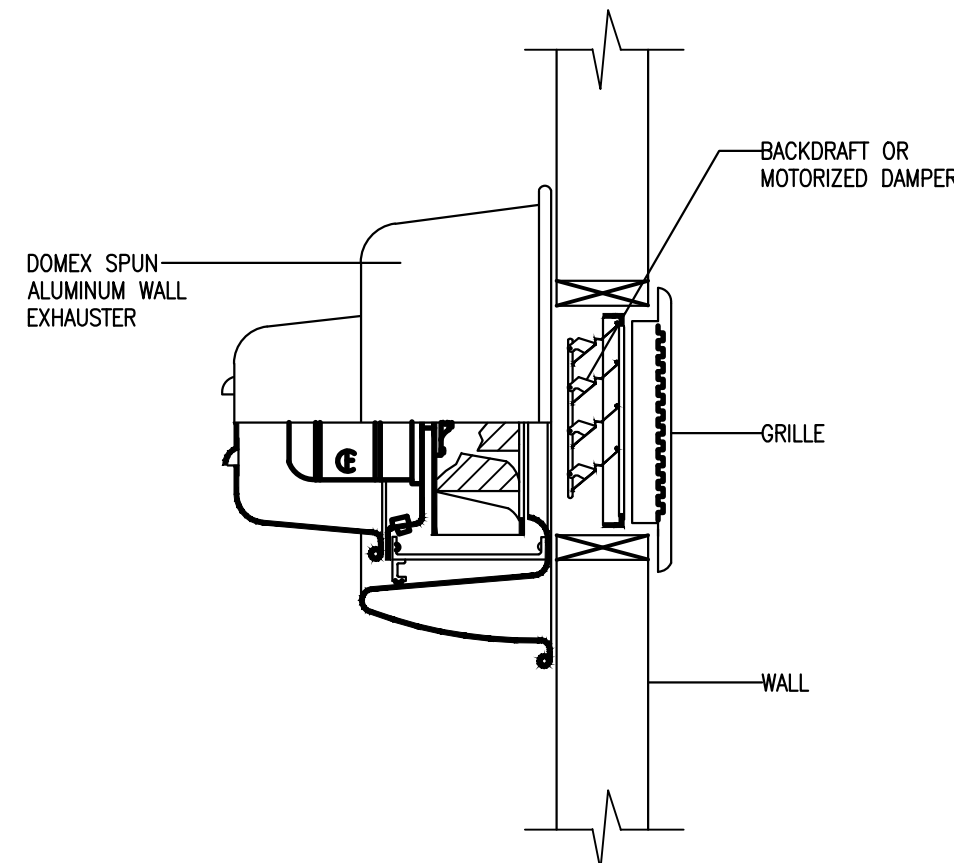
5  
M-2



ROOF MOUNTED EXHAUST FAN DETAIL

SCALE = N.T.S.

6  
M-2



DETAIL - WALL EXHAUST FAN

SCALE = N.T.S.

7  
MV-3

Fisheries and Oceans

Pêches et Océans

Real Property, Safety & Security

Biens immobiliers, protection et sécurité

PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
Class "A"  
This Permit Allows  
**CROSBIE ENGINEERING LIMITED**

To practice Professional Engineering in Newfoundland and Labrador Permit No. as issued by PEG-NL D0123 which is valid for the year 2017.

0	ISSUED FOR TENDER	8/22/17	M.K.	D.S.
A	ISSUED FOR REVIEW	8/18/17	M.K.	D.S.
no.	revision	date	by	approved
no.	revision	date	by	approved
Project – projet				
SITE IMPROVEMENTS SALMON COVE RIVER COMPOUND				
PORT REXTON, NL				
Drawing – dessin				
MECHANICAL DETAILS				
drawn – dessiné		designed – dessinée par		
M.K.		D.S.		
date – date		checked – vérifié		
AUGUST, 2017		D.S.		
scale – échelle		approved for tender – approuvé pour l'offre		
AS NOTED				
project no. – projet no.		drawing no. – no du dessin		sheet – feuille
F6879-179009		020604A001M2		M2



GENERAL DEMOLITION NOTES:

1. CONTRACTOR TO PROVIDE ALL CUTTING, PATCHING AND PAINTING TO MATCH EXISTING. SEE SPECIFICATION FOR DETAILS. COORDINATE ON SITE.
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE BEFORE PROCEEDING WITH ANY PORTION OF THIS WORK. DO NOT SCALE FROM DRAWINGS. CONTRACTOR TO ASSESS WORK AREA IN ADVANCE WITH DEPARTMENTAL REPRESENTATIVE FOR COORDINATION OF RELATED DAILY WORK SCHEDULES, PARKING, BUILDING ACCESS, AND STORAGE OF EQUIPMENT.
3. ALL WORK SHALL BE SCHEDULED DURING NORMAL WORKING HOURS. CONTRACTOR MAY WORK AFTER NORMAL WORKING HOURS AS COORDINATED BY DEPARTMENTAL REPRESENTATIVE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP AND DISPOSALS OF WORK AREA ON A DAILY BASIS. AFTER EACH WORKING SHIFT BUILDING TO BE CLEANED AND FREE OF DEBRIS. BUILDING GARBAGE BINS ARE NOT TO BE USED.
5. ANY ELECTRICAL SYSTEM SHUTDOWN TO BE SCHEDULED AFTER NORMAL BUSINESS HOURS AND SHALL BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE. SUFFICIENT NOTICE SHALL BE GIVEN. 5 WORKING DAYS NOTICE IS REQUIRED FOR ANY DISRUPTION.
6. WORK TO BE CARRIED OUT IN CONSIDERATION OF CLIENT COMFORT AND OPERATIONS.
7. ALL WIRING TO BE INSTALLED IN CONDUIT AS INDICATED.
8. ACCESS TO FACILITY TO BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
9. PROVIDE TYPED REVISED PANELBOARD DIRECTORIES FOR ALL PANELBOARDS WHERE BRANCH CIRCUITS WERE REMOVED, ADDED OR MODIFIED.
10. LABEL ALL EQUIPMENT WITH LAMACOID TAGS AS PER SPECIFICATION.
11. ALL EXISTING ELECTRICAL EQUIPMENT REMOVED TO BE TURNED OVER TO DEPARTMENTAL. IF OWNER REFUSES THEN CONTRACTOR TO REMOVE FROM SITE AND DISPOSE.

ELECTRICAL LEGEND

ⓑH EXTERIOR LED LIGHTING FIXTURE, WALL MOUNTED. SEE SPECIFICATION AND LIGHTING FIXTURE SCHEDULE.

—A— LED LIGHTING FIXTURE. SEE SPECIFICATION AND LIGHTING FIXTURE SCHEDULE.

Ⓔx EXISTING HAZARDOUS AREA RATED LIGHTING FIXTURE, CEILING MOUNTED. TO REMAIN FOR REUSE IN NEW LAYOUT.

\$ Ex SINGLE POLE TOGGLE SWITCH. 15 AMP, 120 VOLT, YELLOW, MARINE GRADE C/W PVC MARINE GRADE COVERPLATE. SEE SPEC. FOR MORE INFORMATION. MOUNT 1200mm ABOVE FINISHED FLOOR. "Ex" INDICATES EXISTING LIGHTING SWITCH RATED FOR HAZARDOUS AREAS. TO REMAIN FOR REUSE IN NEW LAYOUT.

■ NEW SURFACE MOUNTED PANELBOARD

ⓂP DUPELEX U-GROUND RECEPTACLE, 120 VOLT, 15 AMP, MARINE GRADE, YELLOW & C/W PVC MARINE GRADE COVERPLATE. WALL MOUNT 400mm ABOVE FINISHED FLOOR. "WP" INDICATES WEATHERPROOF GASKET AND COVERPLATE.

ⓁⓂ EMERGENCY LIGHTING BATTERY UNIT "LUMACELL" #RG12S200-2LD7 OR EQUAL, 120 VOLT AC, 12 VOLT DC, BATTERY TO MOUNT 300mm BELOW CEILING. BE RATED FOR 200 WATTS (66W FOR 90 MINUTES MINIMUM) C/W TWO 4W MR-16 LED HEADS & COME WITH A 10 YEAR RATED LIFE MINIMUM. #1 INDICATES BATTERY PACK DESIGNATION.

Ⓛ Remote HEAD "LUMACELL" #MQM2LD7 (DOUBLE) OR EQUAL, 12 VOLT, C/W 4 WATT, MR16 LED LAMPS. WALL MOUNT 300mm BELOW FINISHED CEILING. #1 INDICATES CONNECTION TO BATTERY PACK #1

ⓧ EXIT SIGN, " LUMACELL" LA1WU SERIES (RUNNING MAN) NRCAN/CSA COMPLIANT. UNIVERSAL MOUNT 120 VOLT AC & 12 VOLT DC, C/W 25 YEAR LED TYPE LAMPS. SEE LIGHTING FIXTURE SCHEDULE AND SPECIFICATION. ARROWS INDICATE DIRECTION OF TRAVEL

ⓧ COMBO EXIT SIGN COMPLETE WITH TWO HEADS, " LUMACELL" LHC-G-12N60-LD7 LAC-1-W-1250-2-LD7 SERIES NRCAN/CSA COMPLIANT. UNIVERSAL MOUNT 120 VOLT AC & 12 VOLT DC, C/W EXIT SIGN (RUNNING MAN) AND TWO 4 WATT, MR16, 25 YEAR LED TYPE LAMPS. SELF-POWERED.

ⓧ COMBO EXIT SIGN COMPLETE WITH TWO HEADS, " LUMACELL" LHC-G-12N60-LD7 SERIES HAZARDOUS LOCATION RATED NRCAN/CSA COMPLIANT. UNIVERSAL MOUNT 120 VOLT AC & 12 VOLT DC, C/W EXIT SIGN (RUNNING MAN) AND TWO 4 WATT, MR16, 25 YEAR LED TYPE LAMPS. SELF-POWERED.

☑ MANUAL STARTER SUPPLIED AND INSTALLED BY MECHANICAL DIVISION. 120 VOLT WIRING BY ELECTRICAL DIVISION. WALL MOUNT 1400mm ABOVE FINISHED FLOOR. CONSIGNATION MAGNETIC STARTER SUPPLIED AND INSTALLED BY MECHANICAL DIVISION. 120 VOLT WIRING BY ELECTRICAL DIVISION. WALL MOUNT 1400mm ABOVE FINISHED FLOOR.

☑ GAS DETECTION PANEL. SUPPLIED AND INSTALLED BY MECHANICAL DIVISION. 24 VOLT WIRING BY MECHANICAL DIVISION. 120/208 VOLT WIRING BY ELECTRICAL DIVISION.

Ⓛ GAS DETECTION SYSTEM AUDIBLE AND VISUAL ALARMS. SUPPLIED AND INSTALLED BY MECHANICAL DIVISION. 24 VOLT WIRING BY MECHANICAL DIVISION. 120/208 VOLT WIRING BY ELECTRICAL DIVISION.

Ⓜ DAMPER MOTOR, SUPPLIED AND INSTALLED BY MECHANICAL DIVISION AND WIRED BY ELECTRICAL DIVISION.

Ⓞ ELECTRIC MOTOR, SUPPLIED BY MECHANICAL DIVISION, WIRED BY ELECTRICAL DIVISION.

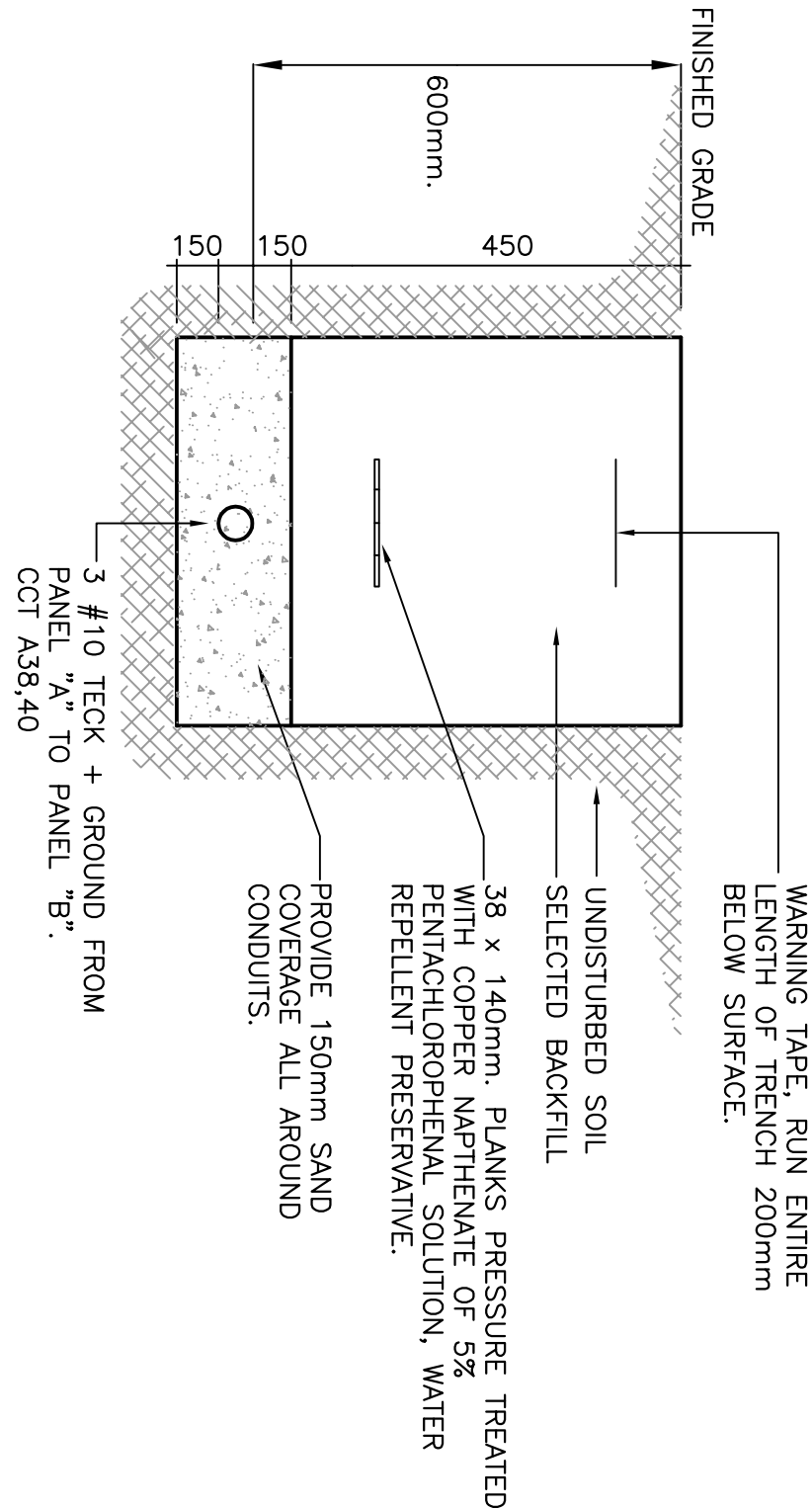
LIGHTING FIXTURE SCHEDULE				
SYMBOL	LIGHT SOURCE	MOUNTING	LAMPS	REMARKS
A	LED	WALL SURFACE	30W LED	120 LITHONIA OLWX1 40W 40K C/W INTEGRAL PHOTOCELL
B	LED	CEILING SURFACE	32W LED	120 LITHONIA LBL4LP835

VOLTS 120/240		PANEL NAME "A"		MAINS RATED 200 AMPS		C/W 200 AMP, 2 POLE MAIN BREAKER	
PHASE 1		LOCATION WAREHOUSE/GARAGE BLDG.		MOUNTING SURFACE		CIRCUITS 40	
WIRE 3		FED FROM UTILITY		ENTER AT			
DESIGNATION		WATTAGE ø A ø B	WIRE BKR	CCT	A B	CCT BKR WIRE ø A ø B	DESIGNATION
**	EXISTING CIRCUIT			1	2		EXISTING CIRCUIT
**	EXISTING CIRCUIT			3	4		EXISTING CIRCUIT
**	EXISTING CIRCUIT			5	6		EXISTING CIRCUIT
**	EXISTING CIRCUIT			7	8		EXISTING CIRCUIT
**	EXISTING CIRCUIT			9	10		EXISTING CIRCUIT
**	EXISTING CIRCUIT			11	12		EXISTING CIRCUIT
**	EXISTING CIRCUIT			13	14		EXISTING CIRCUIT
**	EXISTING CIRCUIT			15	16		EXISTING CIRCUIT
**	EXISTING CIRCUIT			17	18		EXISTING CIRCUIT
**	EXISTING CIRCUIT			19	20		EXISTING CIRCUIT
**	EXISTING CIRCUIT			21	22		EXISTING CIRCUIT
**	EXIT/EMERGENCY LIGHTING	250	12	15	23	24 15 12	FAN EF-1
* GAS DETECTION PANEL		200	12	15	25	26 15	SPARE
SPARE			15	27	28 15	30 15	SPARE
SPARE			15	29	30 15	32 15	SPARE
SPARE			15	31	32 15	34 15	SPARE
SPARE			15	33	34 15	36 15	SPARE
SPARE			15	35	36 15	38 30	SPARE
SPARE			15	37	38 30	40 2	PANEL "B"
SPARE			15	39	40 2	10	410
ø A TOTAL :							
ø B TOTAL :							
LOAD							

\* - INDICATES LOOK ON DEVICE  
\*\* - INDICATES EXISTING CIRCUIT TO REMAIN. EXTEND CONDUIT AND WIRING AS REQUIRED TO RECONNECT TO NEW PANEL. COORDINATE EXACT CIRCUIT BREAKER RATING AND POLES FOR EACH CIRCUIT TO MATCH EXISTING PRIOR TO ORDERING MATERIALS. COORDINATE ON SITE.

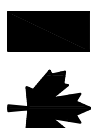
VOLTS 120/240		PANEL NAME "B"		MAINS RATED 30 AMPS		C/W 30 AMP, 2 POLE MAIN BREAKER	
PHASE 1		LOCATION FUEL STORAGE BLDG.		MOUNTING SURFACE		CIRCUITS 8	
WIRE 3		FED FROM PANEL "A"		ENTER AT			
DESIGNATION		WATTAGE ø A ø B	WIRE BKR	CCT	A B	CCT BKR WIRE ø A ø B	DESIGNATION
* EXIT/EMERGENCY LIGHTING		250	12	15	1	2 15 12 100	LIGHTING
FAN EF-2		310	12	15	3	4 15 12	ENCLOSURE-LIGHTING
ENCLOSURE-HEATING		500	12	15	5	6 15	SPARE
SPARE			12	15	7	8 2	
ø A TOTAL :		850					
ø B TOTAL :		410					
LOAD		1.26 KW		6 AMP			

\* - INDICATES LOOK ON DEVICE



TRENCHING NOTES:

1. ALL TRENCHES SHALL BE BACKFILLED WITH SELECTED BACKFILL AND TAMPED IN 300mm LAYERS EXCEPT AT ROAD CROSSINGS WHERE THE BACKFILL SHALL BE THE SAME MATERIAL AS THE ROAD BED AND TAMPED IN 150mm LAYERS. EXCESS FILL SHALL BE PLACED ON TOP TO ALLOW FOR SETTLING.
2. THE DUCTS SHALL BE SUPPORTED BY APPROVED SPACERS. NO WIRE OR METAL TIES TO BE USED.
3. COPPER RSH WIRE MINIMUM #8 MUST BE INSTALLED IN ALL DUCTS.
4. ELECTRICAL DUCT MUST BE RIGID PVC OR APPROVED EQUIVALENT.
5. ALL DUCTS AND FITTINGS MUST BE CSA APPROVED.
6. ALL DUCTS ARE TO BE SECURELY CAPPED AT BOTH ENDS.
7. ALL FITTINGS, COUPLINGS AND ADAPTERS ARE TO BE SOLVENT WELD.



Fisheries and Oceans  
Pêches et Océans

Real Property, Safety & Security  
Biens immobiliers, protection et sécurité

PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
Class "A"  
This Permit Allows  
CROSSBIE ENGINEERING LIMITED  
To practice Professional Engineering in Newfoundland and Labrador  
Permit No. as issued by PEG-NL 00123  
which is valid for the year 2017.

REGISTERED PROFESSIONAL ENGINEER  
KENNETH R.P. NEIL  
SIGNATURE  
AUG 22/17  
DATE

Drawing - dessine  
D.R.

scale - échelle  
AS NOTED

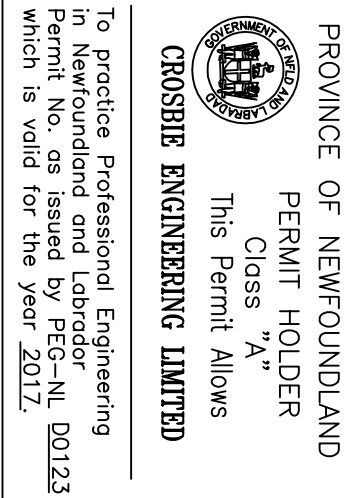
Project no. - projet no. no du dessin  
F6679-179009

designed - dessine par  
checked - vérifié  
K.N.

approved for tender - approuvé pour l'offre  
K.N.

sheet - feuille  
E1





0	ISSUED FOR TENDER	8/22/17	D.R.	K.N.
A	ISSUED FOR REVIEW	8/18/17	D.R.	K.N.
no.	revision	date	by	approved
Project – projet				
SITE IMPROVEMENTS				
SALMON COVE RIVER COMPOUND				
PORT REXTON, NL				
Drawing – dessin				
drawn – dessiné	designed – dessiné par			
date – date	checked – vérifié			
AUGUST, 2017	K.N.			
scale – échelle	approved for tender–approuvé pour l'offre			
AS NOTED				
Project no. – projet no.	drawing no. – no du dessin	sheet – feuille		
F6879-179009	02C0604A001E2	E2		

- NOTES
1. NEMA 4X ENCLOSURE TO BE CSA APPROVED C/W LIGHT, HEATER, INSULATION, THERMOSTAT AND LIGHT SWITCH FACTORY INSTALLED.

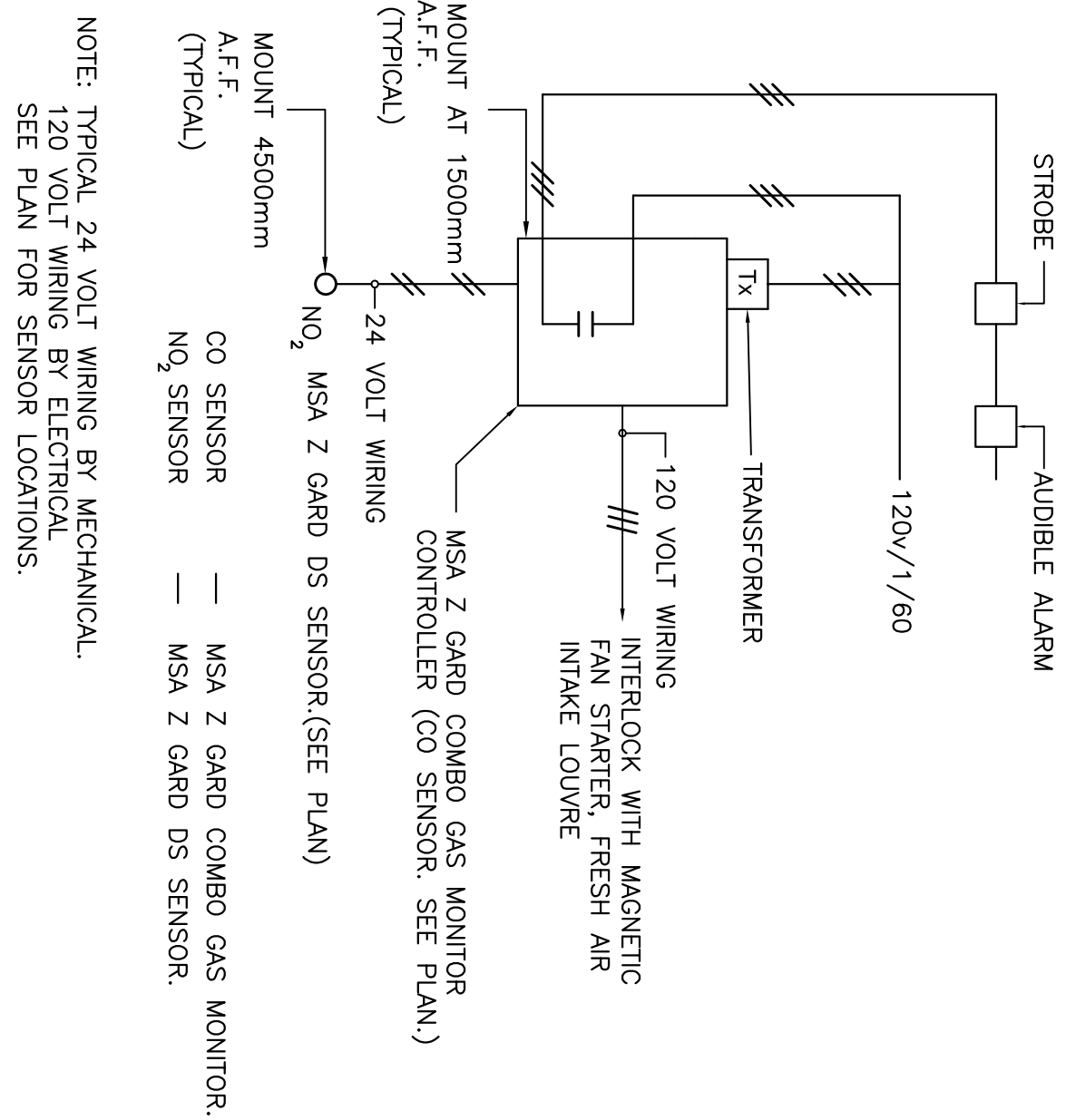
2. CONFIRM EXACT SIZE OF ALL EQUIPMENT PRIOR TO FABRICATING ENCLOSURE.

3. ENCLOSURE TO BE C/W MINIMUM 30% SPARE CAPACITY.

4. ALL DIMENSIONS GIVEN ARE APPROXIMATE AND SHALL BE CONFIRMED BEFORE ENCLOSURE IS FABRICATED.

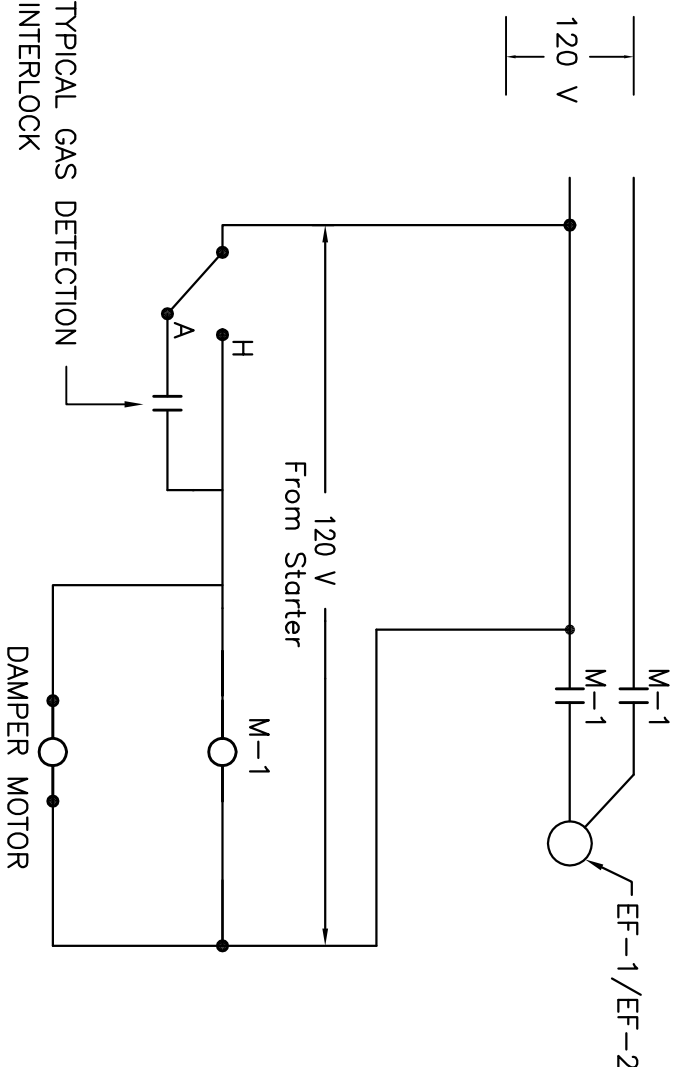
SCALE = N.T.S.

## STAINLESS STEEL ENCLOSURE



## GAS DETECTION SYSTEM

SCALE = N.T.S.

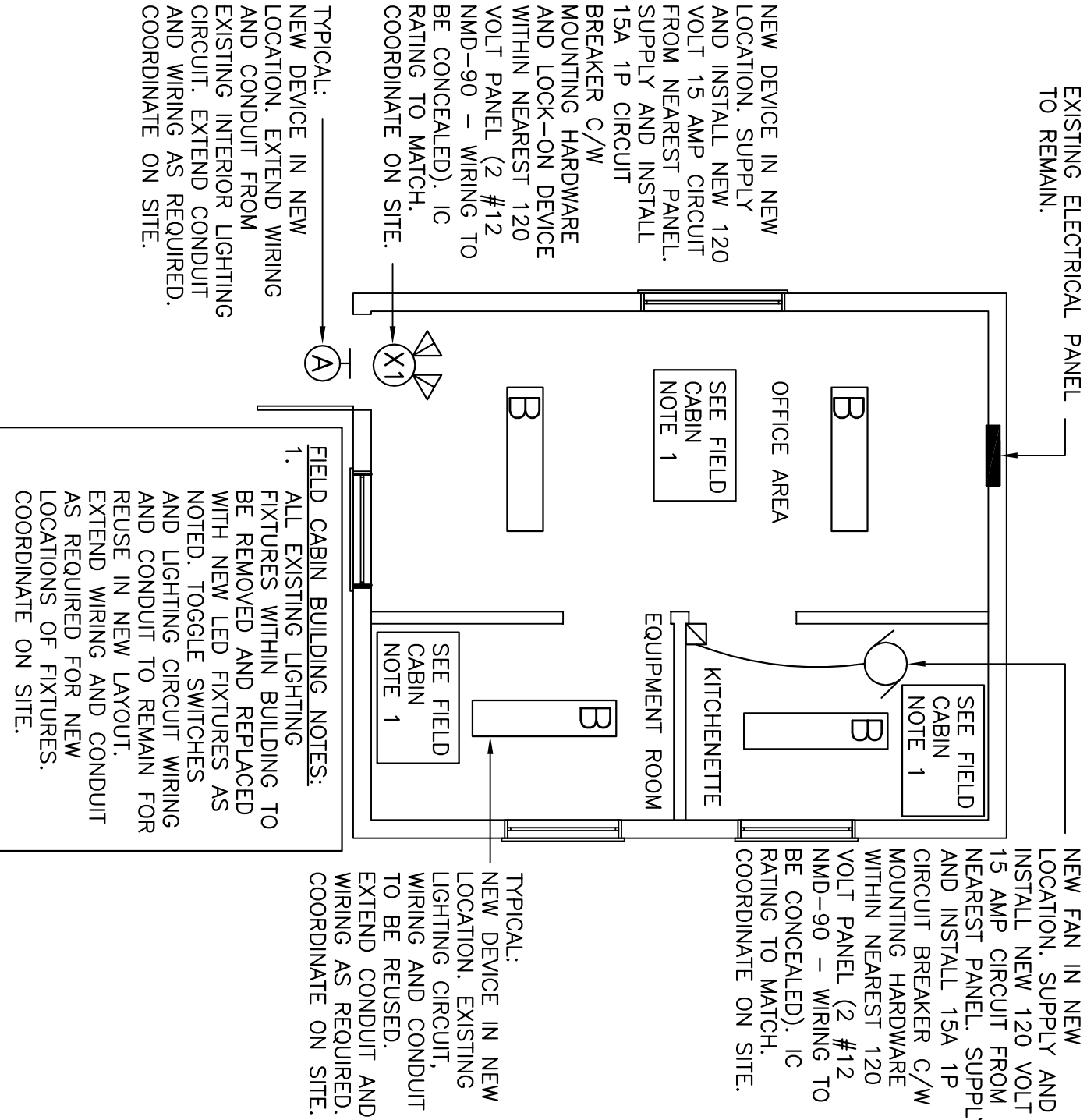


NOTE: 120 VOLT CONTROL WIRING BY ELECTRICAL,  
MAGNETIC STARTER SUPPLIED BY MECHANICAL, AND  
INSTALLED BY ELECTRICAL.

## CONTROL DIAGRAM FOR EXHAUST FANS

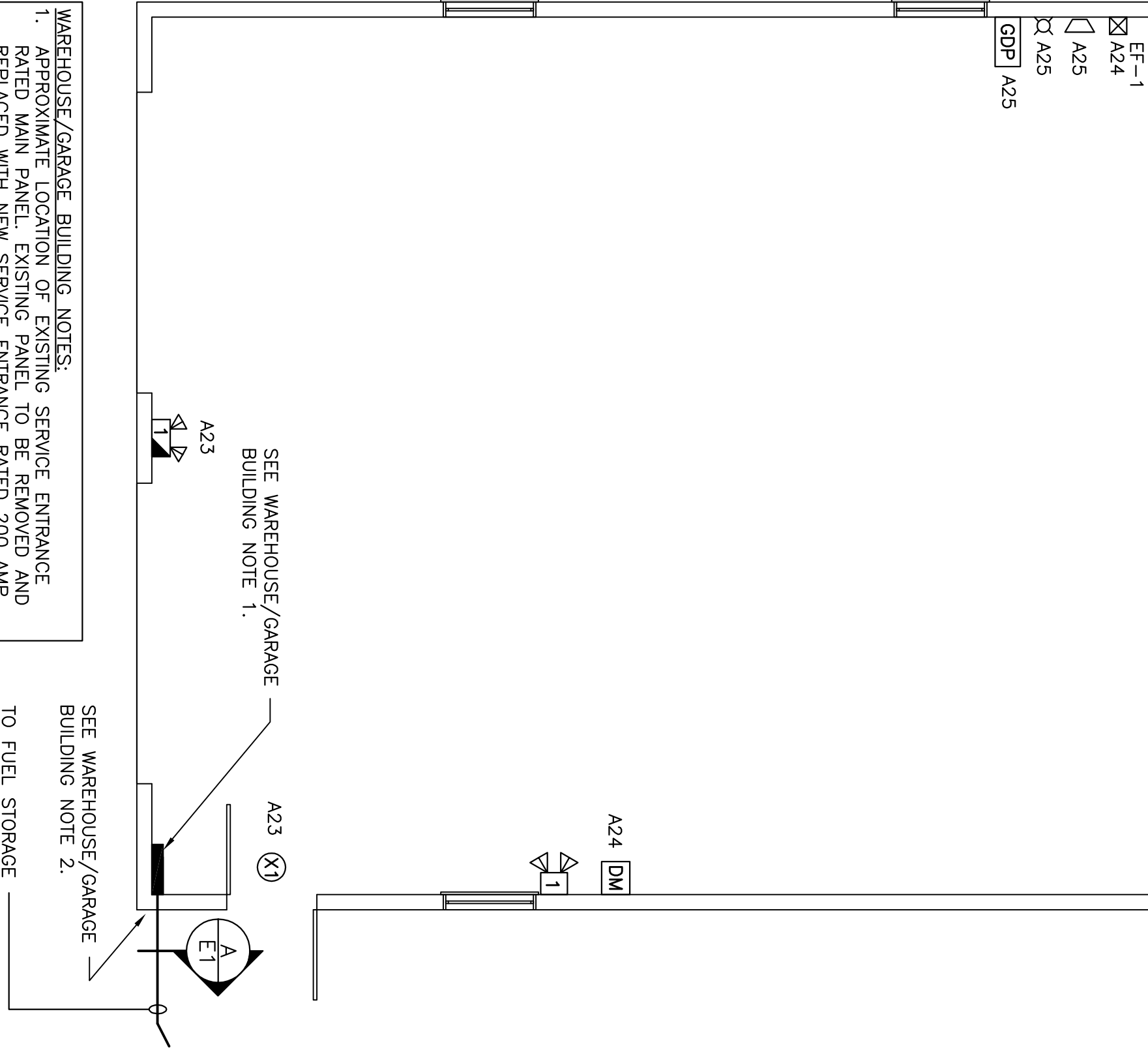
EF-1 & EF-2

SCALE = N.T.S.



## FIELD CABIN BUILDING – ELECTRICAL LAYOUT

SCALE: 1:50



- WAREHOUSE/GARAGE BUILDING NOTES:
1. APPROXIMATE LOCATION OF EXISTING SERVICE ENTRANCE RATED MAIN PANEL. EXISTING PANEL TO BE REMOVED AND REPLACED WITH NEW SERVICE ENTRANCE RATED 200 AMP, 120/240 VOLT 1Ø-3 WIRE PANEL. 'A' C/W 200 AMP. 2. POLE MAIN BREAKER. SEE PANEL SCHEDULE ON THIS DRAWING. CIRCUITS WITHIN BUILDING TO REMAIN FOR REUSE IN NEW LAYOUT. EXTEND WIRING AND CONDUIT AS REQUIRED TO NEW PANEL LOCATION. COORDINATE WITH NEWFOUNDLAND POWER THE DISCONNECT AND RECONNECT OF UTILITY POWER AS REQUIRED. COORDINATE ON SITE.

2. EXISTING UNDERGROUND WIRING AND CONDUIT FROM WAREHOUSE/GARAGE BUILDING TO FUEL STORAGE BUILDING TO BE DISCONNECTED FROM EXISTING PANEL WITHIN WAREHOUSE/GARAGE BUILDING. REMOVE WIRING AND CONDUIT FROM BOTH BUILDINGS AND CAP BELOW GRADE. CONTRACTOR TO INDICATE ON AS-BUILT DRAWINGS EXACT LOCATIONS OF UNDERGROUND CAPPED WIRING AND CONDUIT.

TO FUEL STORAGE BUILDING.  
CONTRACTOR TO  
ESTIMATE 15  
METERS BETWEEN  
BUILDINGS.

SEE WAREHOUSE/GARAGE  
BUILDING NOTE 2.

SEE WAREHOUSE/GARAGE  
BUILDING NOTE 1.

## WAREHOUSE/GARAGE BUILDING – ELECTRICAL LAYOUT

SCALE: 1:50

0m 1m 2m 3m 4m 5m

## FUEL STORAGE BUILDING – ELECTRICAL LAYOUT

SCALE: 1:50

0m 1m 2m 3m 4m 5m