

EXISTING FIRE PUMP FUEL TANK PIPING SCHEMATIC

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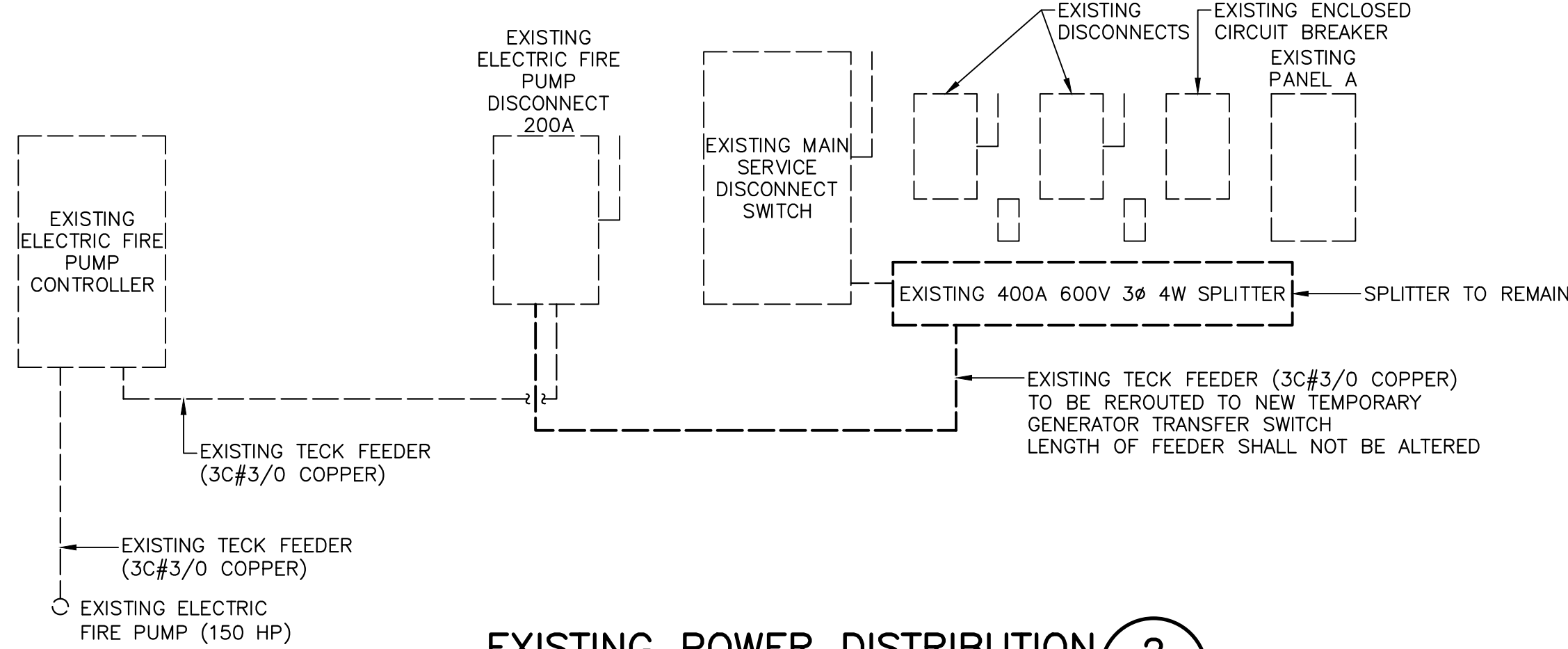
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- A) REFER TO MANUFACTURER'S GENERAL INSTALLATION GUIDELINES FOR CLEARANCES, HEIGHTS LIMITATIONS AND OTHER GENERAL INSTRUCTIONS.
B) FIRE PUMP EXHAUST PIPING MATERIAL SHALL BE 125 SCHEDULE 40 STEEL, WELDED, EXTEND MINIMUM 450mm THROUGH WALL, PRIME AND PAINT EXTERIOR PORTION (BLACK).
C) EXHAUST SYSTEM TO BE COMPLETELY INSULATED EXCEPT FOR FLEXIBLE EXHAUST PIPE.
D) CONFIRM FIRE PUMP INSTALLATION, SHAFT ROTATION IS WITHIN MANUFACTURER'S TOLERANCE.
E) CONTRACTOR SHALL ALLOW FOR BASEPLATE AND FLANGED PIPE CONNECTION SEGMENT TO ENSURE NEW PUMP DISCHARGE ALIGNS WITH EXISTING PIPE.

GENERAL NOTES:

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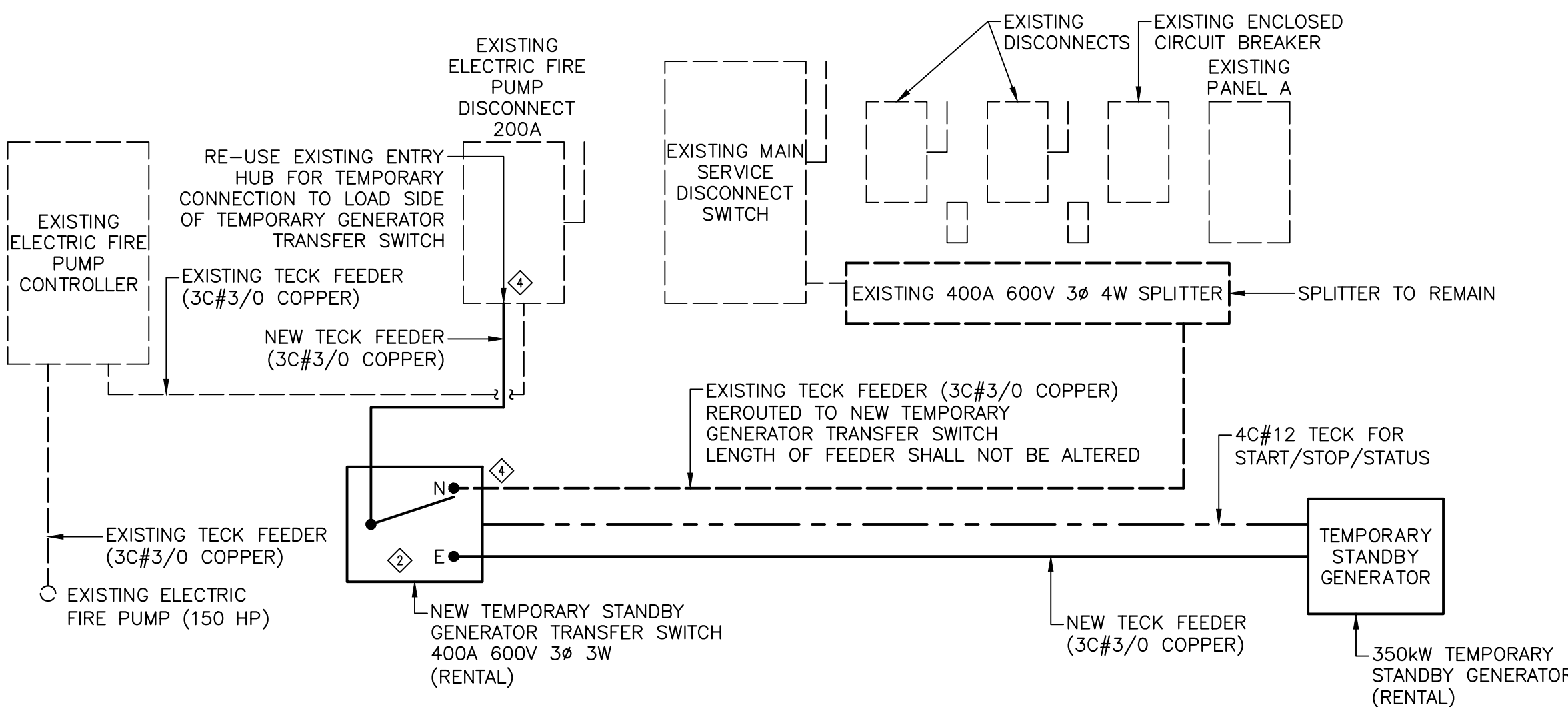
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EXISTING POWER DISTRIBUTION

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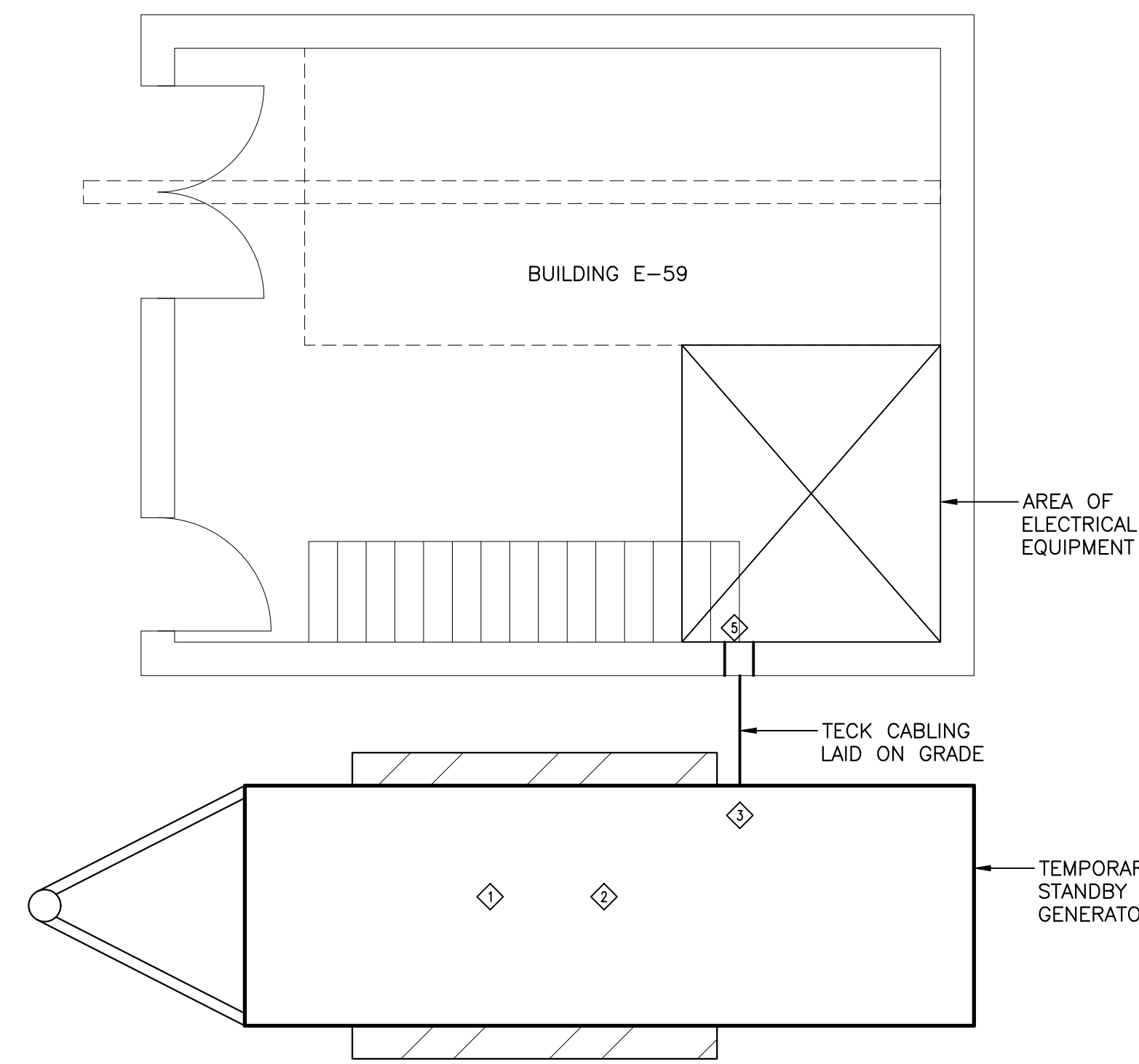
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TEMPORARY POWER DISTRIBUTION

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SPECIFIC NOTES:

1. 350kW RENTAL TEMPORARY STANDBY GENERATOR c/w SUB-BASE FUEL TANKS, ENCLOSURE AND ACCESSORIES. PROVIDE 120V, 25A POWER FROM PANEL 'A' FOR ENCLOSURE SHORE POWER. COORDINATE WITH RENTAL AGENCY, TO ENSURE GENERATOR IS FILLED WITH FUEL. CORRECTIONAL SERVICES CANADA SHALL MONITOR AND ADD FUEL REGULARLY TO TANK AS WELL AS FILL PRIOR TO RETURN OF RENTAL GENERATOR.
2. CONTRACTOR SHALL COORDINATE PROCUREMENT AND DELIVERY OF RENTAL TEMPORARY STANDBY GENERATOR AND TRANSFER SWITCH. PROVIDE SHOP DRAWING SUBMITTAL AND COORDINATE ALL CONNECTIONS AS REQUIRED. CONTRACTOR SHALL PROVIDE TESTING OF RENTAL EQUIPMENT ON NORMAL AND STANDBY ONCE CONNECTED TO ELECTRIC FIRE PUMP. THE PHASE ROTATION MUST BE VERIFIED AND WIRED TO MATCH THAT OF THE ELECTRICAL FIRE PUMP. TESTING SHALL BE WITNESSED ON-SITE BY PSPC AND CSC DEMONSTRATING THAT THE GENERATOR CAN START AND RUN THE FIRE PUMP. A SPRINKLER/FIRE ALARM CONTRACTOR MAY BE REQUIRED FOR THIS WORK AND MUST BE INCLUDED IN THE TENDER PRICE.
3. CONTRACTOR SHALL CONNECT 600V, 3Ø, 3W FROM GENERATOR TO FIRE PUMP DISCONNECT AS INDICATED BY SINGLE LINE RISER. COORDINATE ON SITE THE GENERATOR START AND CONTROLS SIGNALS FROM RENTAL TEMPORARY TRANSFER SWITCH TO RENTAL TEMPORARY STANDBY GENERATOR.
4. CONTRACTOR SHALL REINSTATE EXISTING ELECTRIC FIRE PUMP FEEDER AFTER COMPLETION OF DIESEL FIRE PUMP REPLACEMENT.
5. 4" CONDUIT SLEEVE TO ALLOW PASSAGE OF TEMPORARY GENERATOR CABLING. SEAL AROUND TEMPORARY SLEEVE ON BOTH SIDES USING WEATHERPROOF SEALANT. SEAL AROUND TEMPORARY CABLE ON BOTH SIDES USING DUCT SEALANT. AT PROJECT COMPLETION REMOVE TEMPORARY CONDUIT SLEEVE AND PATCH EXTERIOR WALL WITH ORIGINAL CORE DRILL MATERIAL USING PERMANENT SEALANT AND MORTAR ON EXTERIOR FACADE.

TEMPORARY POWER DETAILS

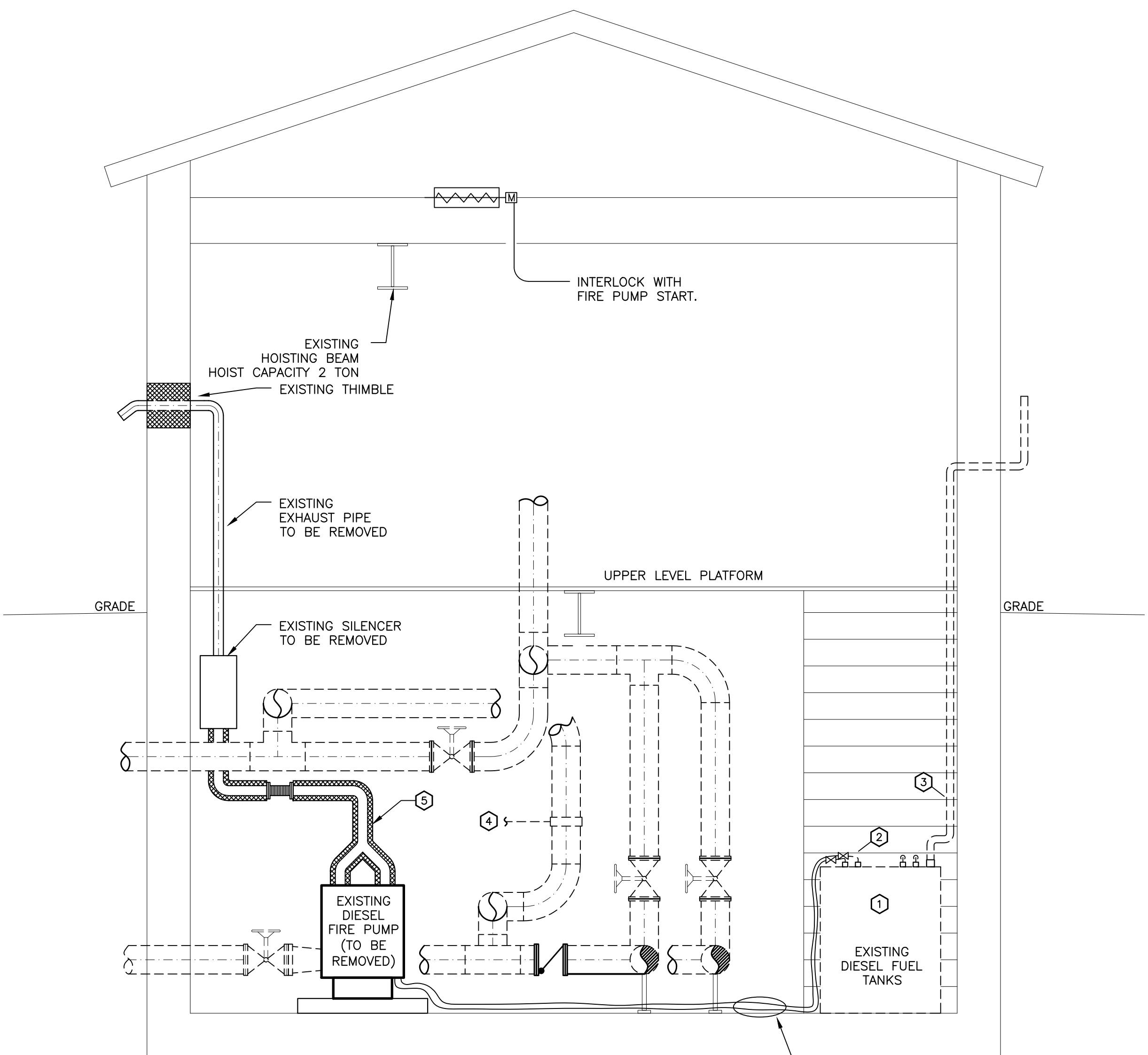
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SCALE : 1:50
0m 1m 2m 3m 4m 5m

SECTION A-A NOTES

1. EXISTING FUEL TANK TO REMAIN.
2. EXISTING FUEL SUPPLY AND RETURN FOR DIESEL FIRE PUMP, CONNECTED TO FUEL TANK. PROVIDE GUARD PLATES IN AREAS WHERE PIPING IS SUBJECT TO TRAFFIC OR DAMAGE.
3. EXISTING 50mm FILL AND 40mm VENT PIPING CONNECTED TO EXISTING TANKS.
4. EXISTING 50mm PRV PIPING INSTALLED AND FITTING ON BYPASS PIPE.
5. EXISTING THERMAL INSULATION APPLIED TO EXPOSED EXHAUST PIPING BETWEEN ENGINE AND SILENCER.

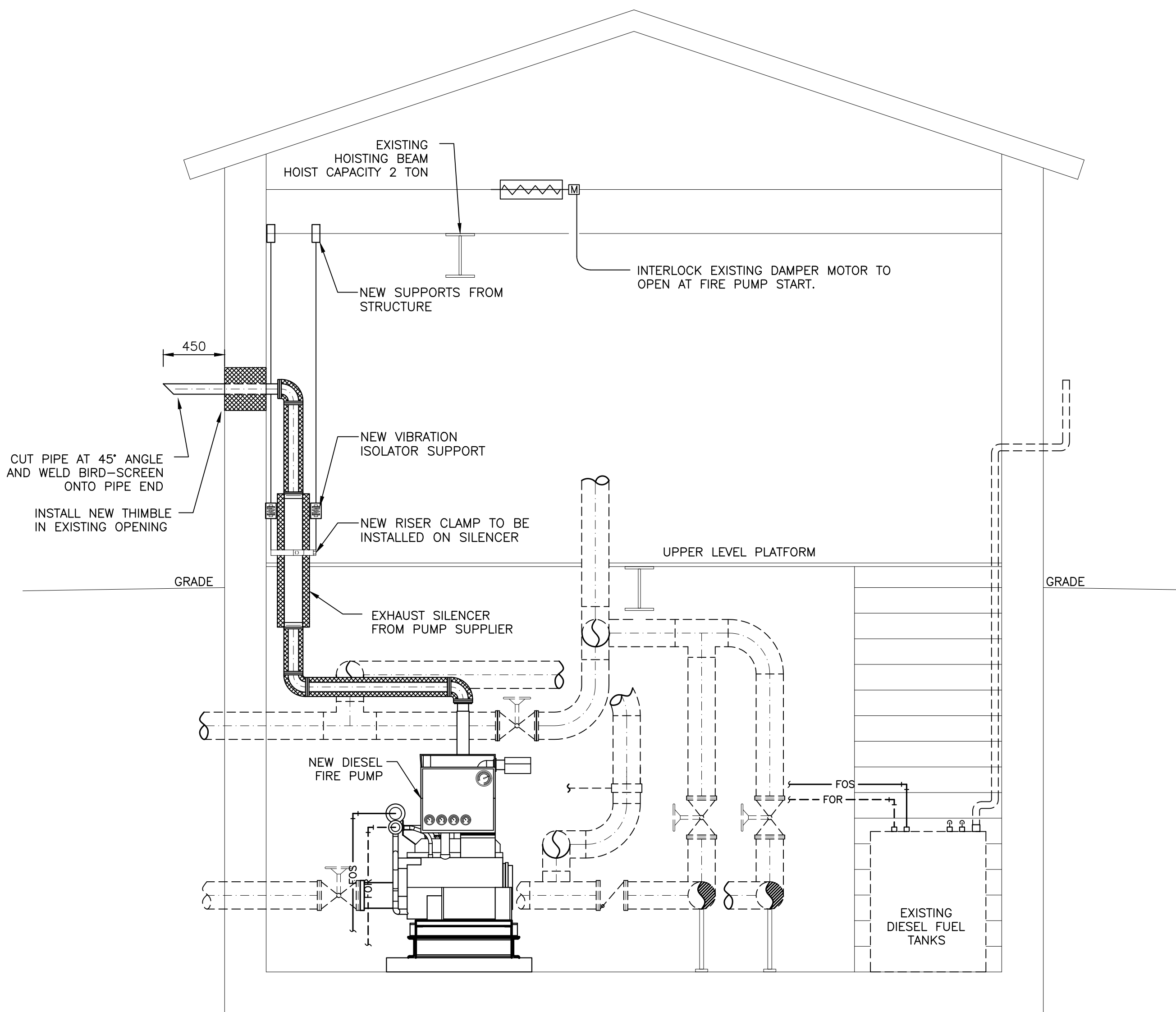


EXISTING SECTION A-A

6
M-2

SCALE: 1:25
0mm 500mm 1000mm 1500mm 2000mm 2500mm

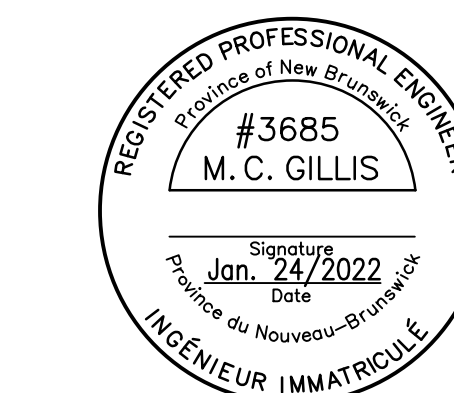
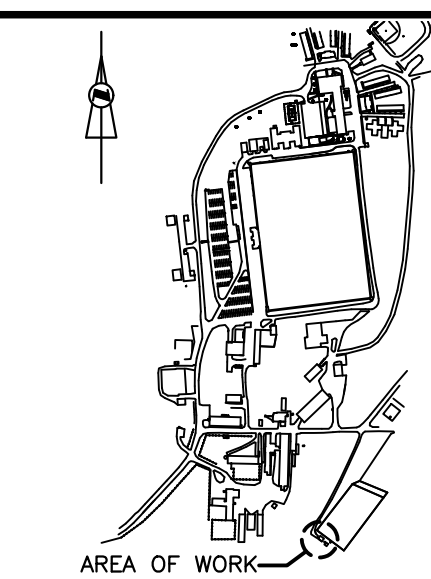
EXISTING FUEL SUPPLY AND FUEL RETURN LINES TO BE REMOVED AND REPLACED



NEW SECTION B-B

7
M-2

SCALE: 1:25
0mm 500mm 1000mm 1500mm 2000mm 2500mm



0	ISSUED FOR TENDER	JAN 24 2022
revisions		date

project E 59 DIESEL FIRE PUMP REPLACEMENT
project DORCHESTER PENITENTIARY DORCHESTER, NB

drawing design
SECTIONS, DETAILS AND NOTES
FIRE PROTECTION

designed HAC	conçu
date JANUARY 2022	
drawn HAC	dessiné
date JANUARY 2022	
approved MCG	approuvé
date JANUARY 2022	
Tender	Soumission

PWGS Project Manager / Administrateur de projets TPSGC
project number / no. du projet
R.111500.001

drawing no. / no. du dessin
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