

DRAWING LIST

છ 1	G1.0	GEN
	COVER SHEET	EKAL

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FLARE STACK FOUNDATION, GROUND AND ROOF FRAMING PLANS, AND SECTION, AND DETAILS GENERAL NOTES, STRUCTURAL REMOVALS AND TYPICAL DETAILS

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SECTIONS
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E2.3

ELECTRICAL ANAEROBIC DIGESTER BIOGAS HAZARDOUS GAS DETECTION &

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E2.1

ELECTRICAL ANAEROBIC DIGESTER
BIOGAS MCC-4 SINGLE LINE
ELECTRICAL ANAEROBIC DIGESTER
BIOGAS PLC-400 LAYOUT
ELECTRICAL ANAEROBIC DIGESTER
BIOGAS FILED INSTRUMENTATION

E1.2

E3.1

ANNUNCIATION LAYOUT
ELECTRICAL ANAEROBIC DIGESTER
BIOGAS DETAILS, PANEL SCHEDULE &
VAREC BIOGAS SINGLE LINE
ELECTRICAL ANAEROBIC DIGESTER

DIGESTER P&ID REMOVALS
DIGESTERS & CONTROL BUILDING
REMOVALS FLOOR PLAN
DIGESTER & CONTROL BUILDING
REMOVALS FLOOR PLAN
DIGESTER & CONTROL BUILDING
REMOVALS ROOF PLAN & SECTIONS
EXISTING SLUDGE BUILDING REMOVALS
SECTION

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ELECTRICAL

E1.1 ELECTRICAL ANAEROBIC DIGESTER
BIOGAS PROCESS POWER LAYOUT MECHANICAL HVAC SYSTEM LAYOUT, DETAILS AND SCHEDULES

E5.7

E5.6

GENERAL NOTES, NOMENCLATURE, AND DETAILS

SLN

XEY

PLAN

E5.5

MECHANICAL

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E5.4 E5.3

DIGESTER & CONTROL BUILDING
REMOVALS FLOOR PLAN
DIGESTER & CONTROL BUILDING
REMOVALS CONTROL SCHEMATICS
DIGESTER & CONTROL BUILDING
REMOVALS CONTROL SCHEMATICS
EXISTING SLUDGE BUILDING REMOVALS

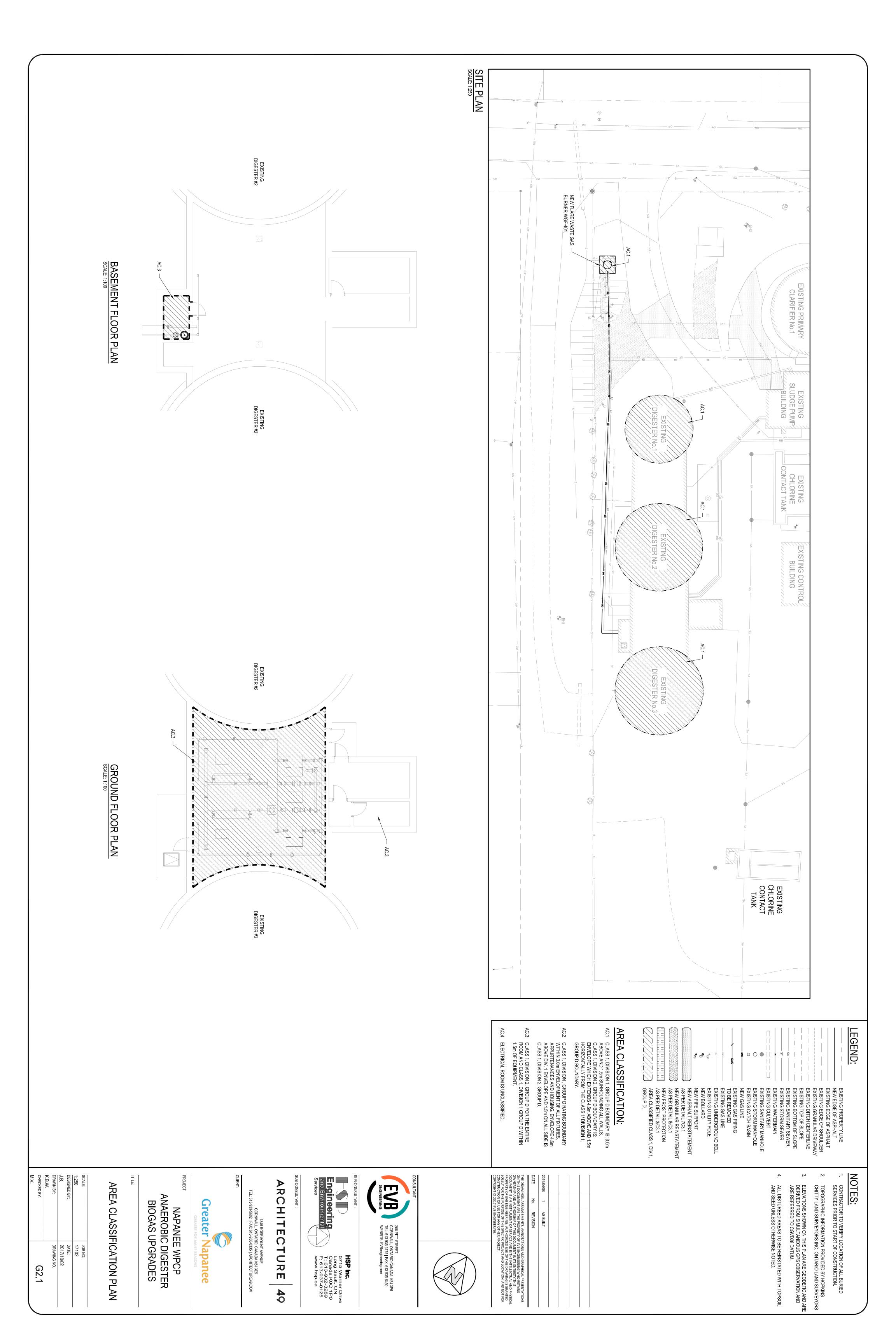
DETAILS EXISTING SLUDGE BUILDING REMOVALS

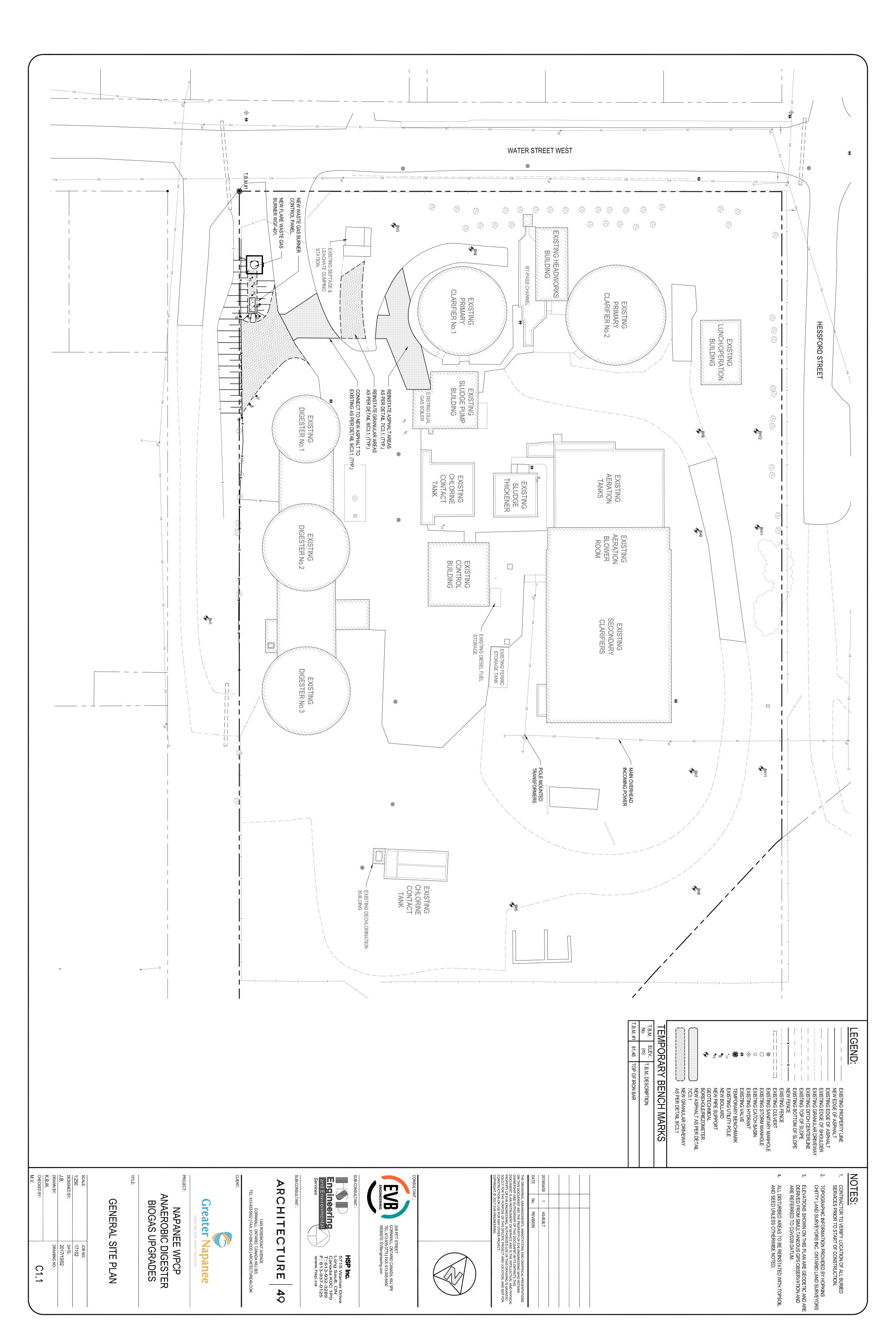
EXISTING SLUDGE BUILDING REMOVALS DIGESTER GAS P&ID EXISTING SLUDGE BUILDING REMOVALS CONTROL PANEL & INSTALLATION DETAIL

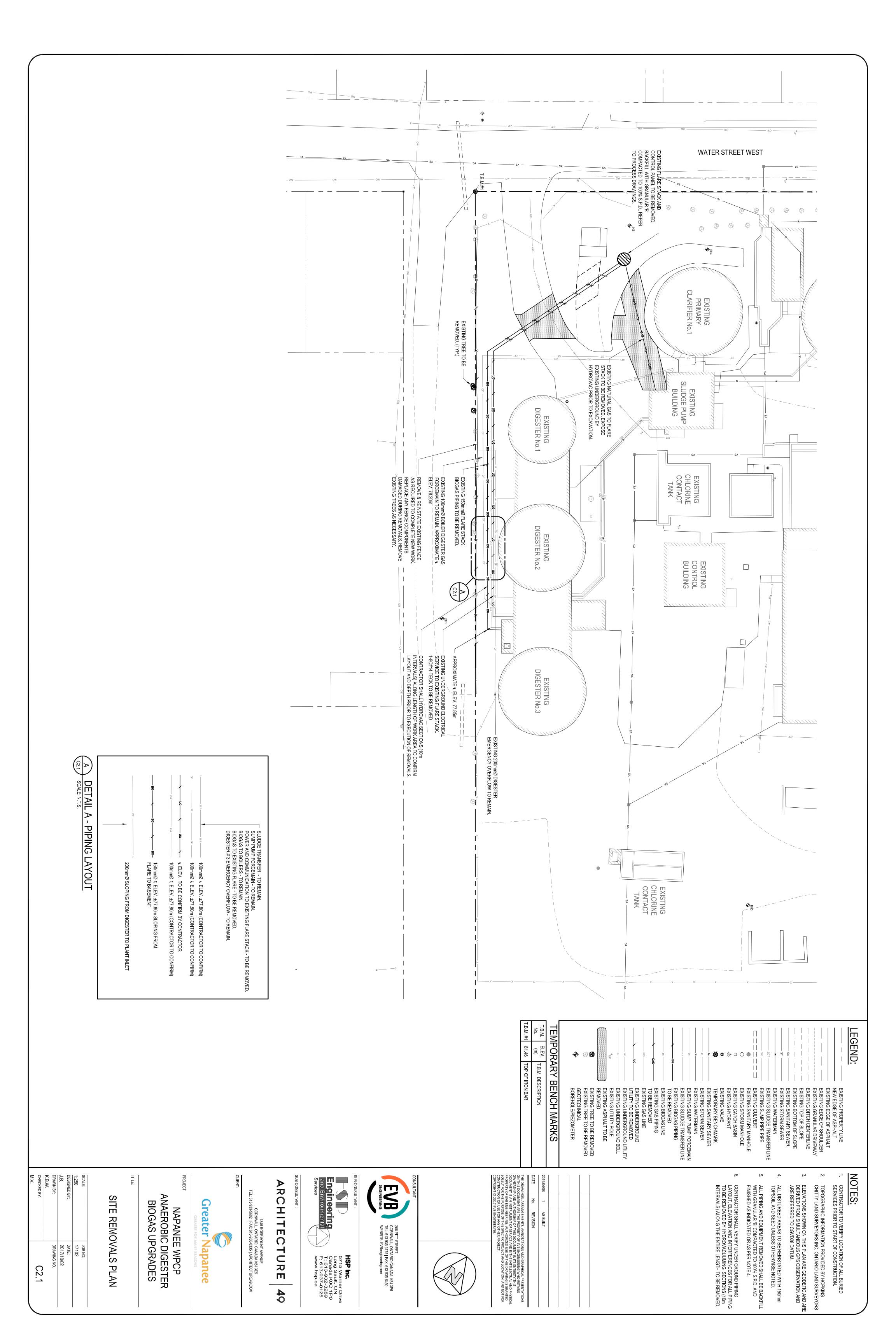
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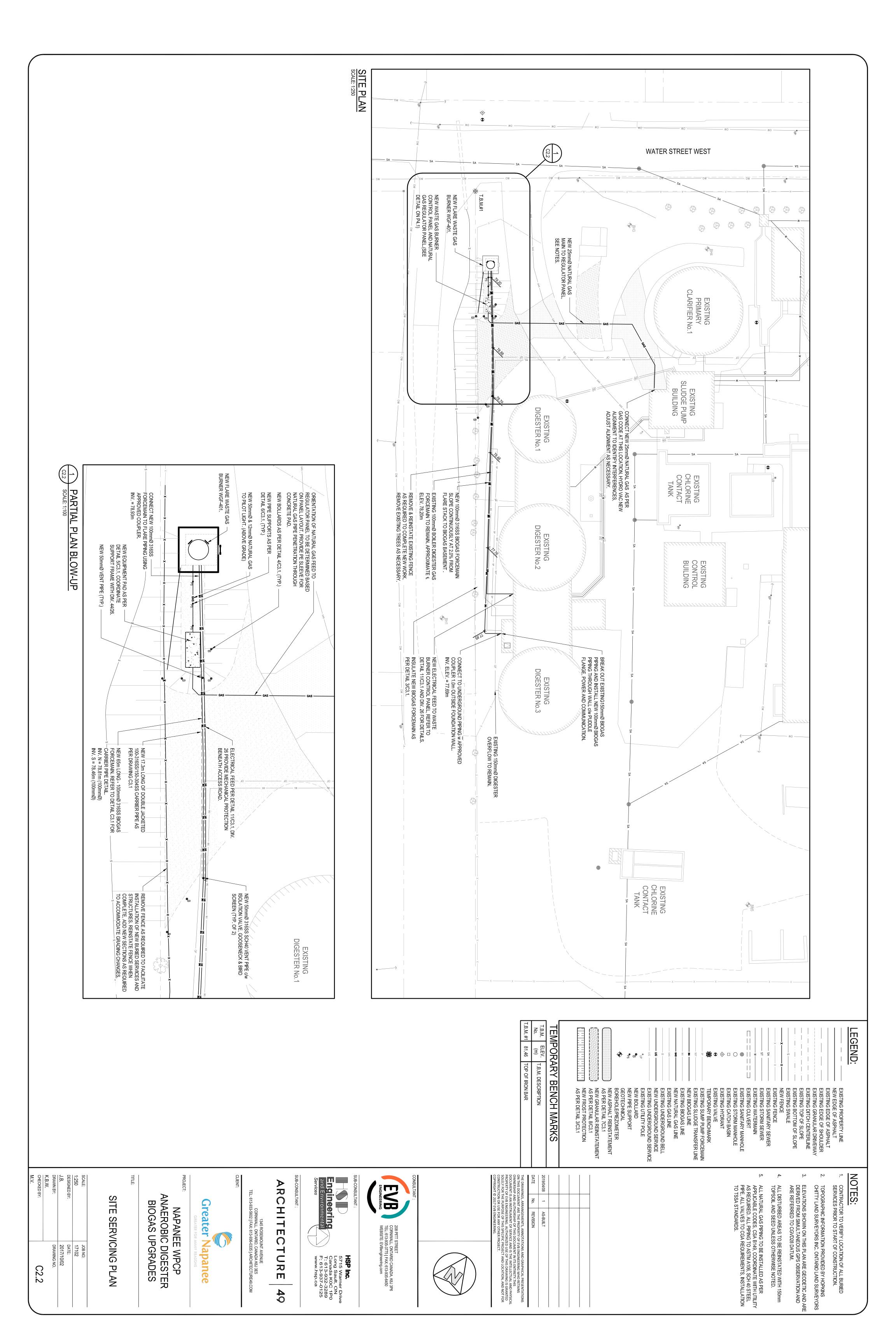
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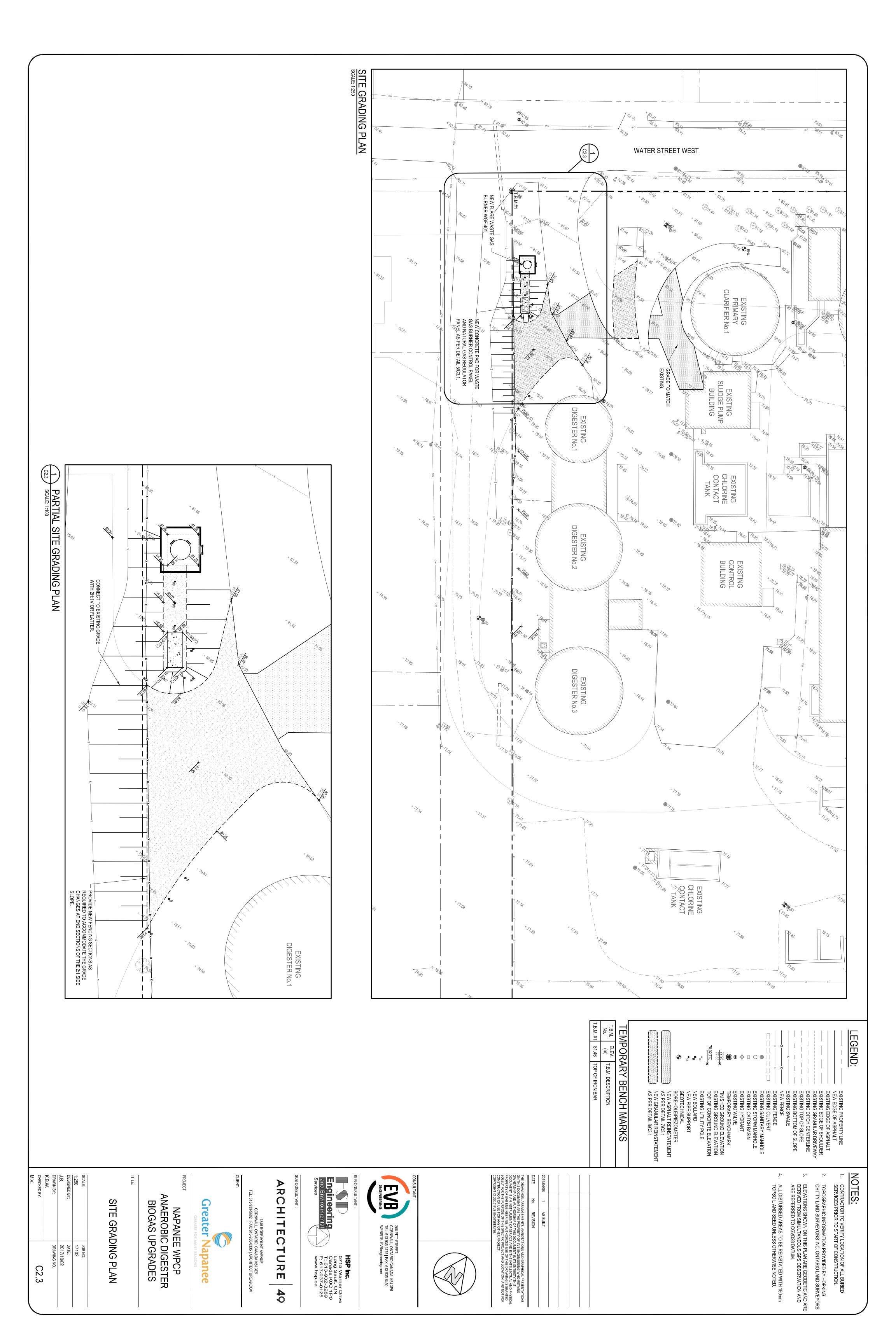
DIAGRAM
DIGESTER & CONTROL BUILDING
REMOVALS 600V SINGLE LINE DIAGRAM &
SITE PLAN

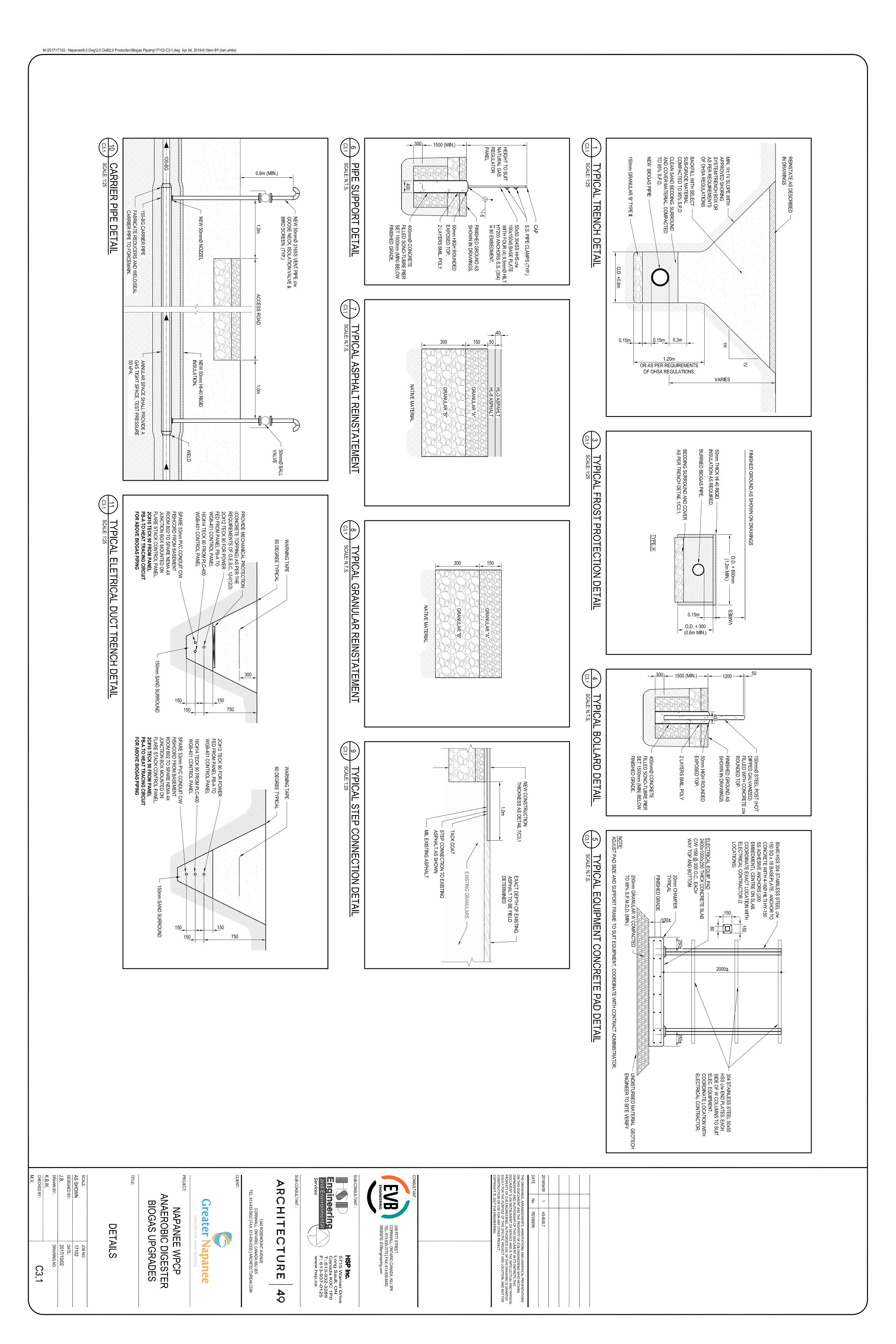


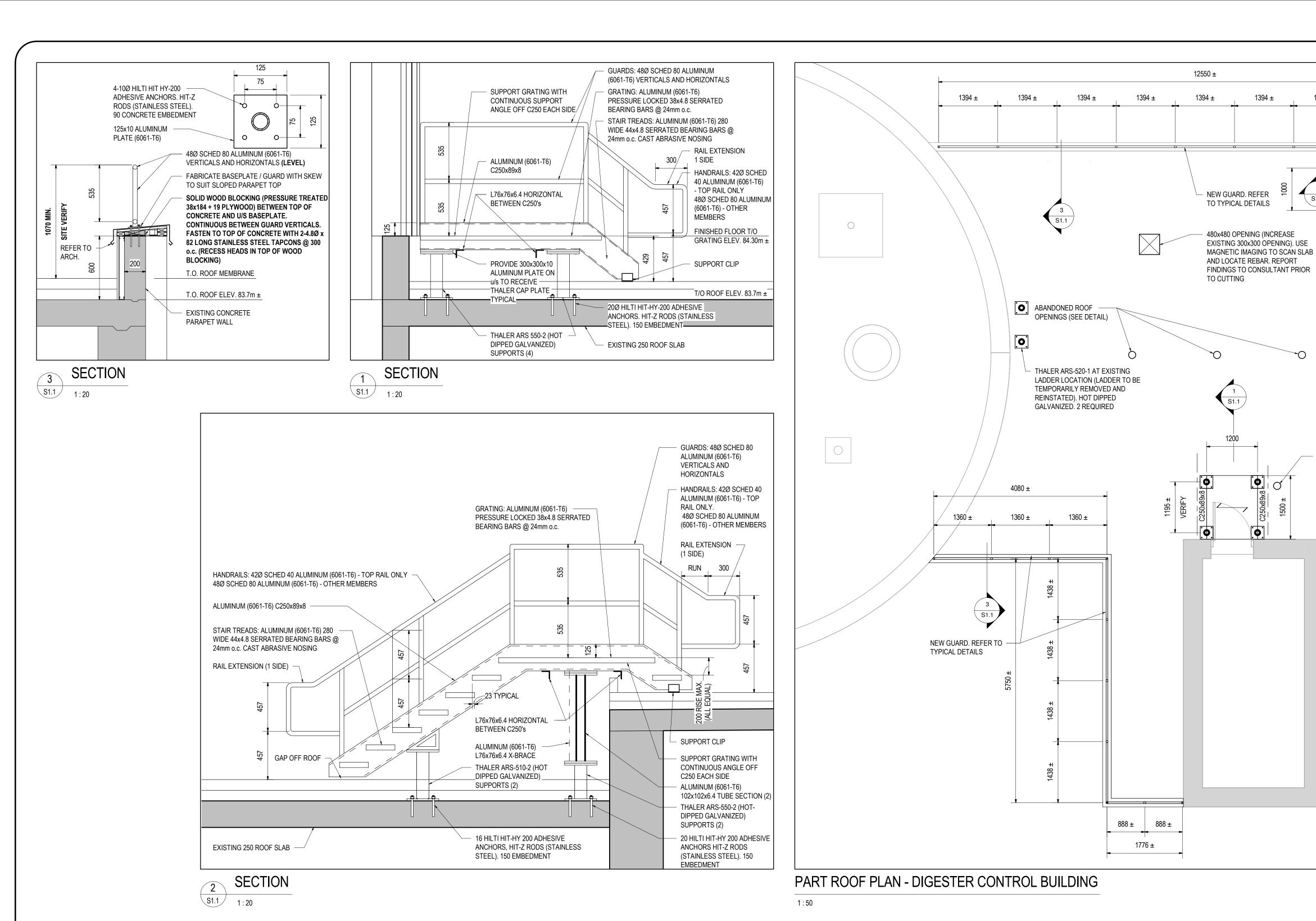












GUARDS: 48Ø SCHED 80 ALUMINUM (6061-T6) VERTICALS

AND HORIZONTALS

T/O ROOF MEMBRANE

T/O PARAPET

1500

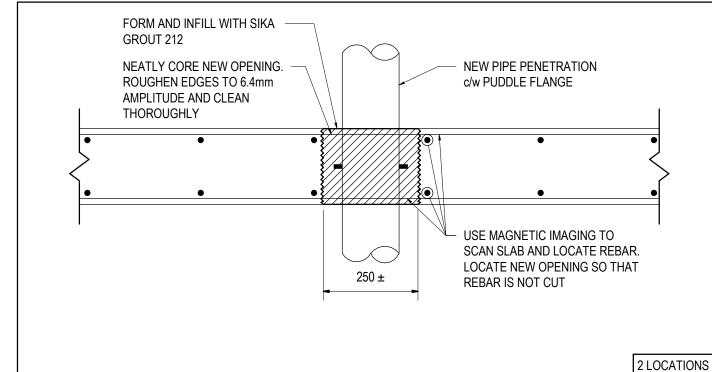
MAXIMUM

PROVIDE EXPANSION

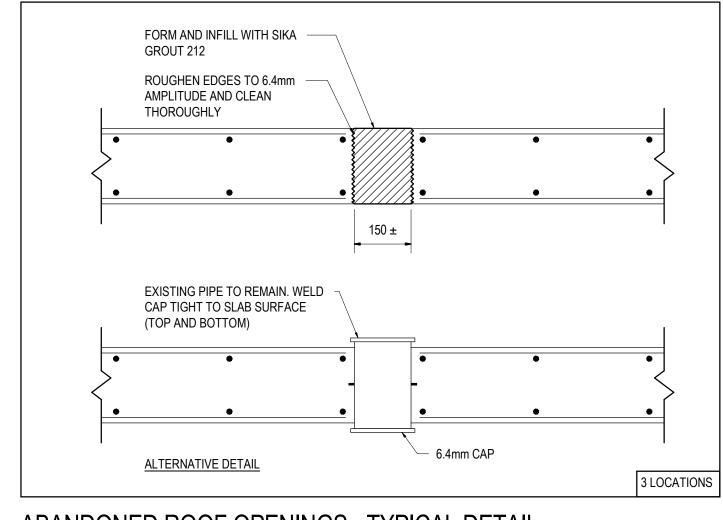
TYPICAL GUARD DETAILS

JOINTS IN HORIZONTAL RAILS AT 6m o.c. MAXIMUM 1500

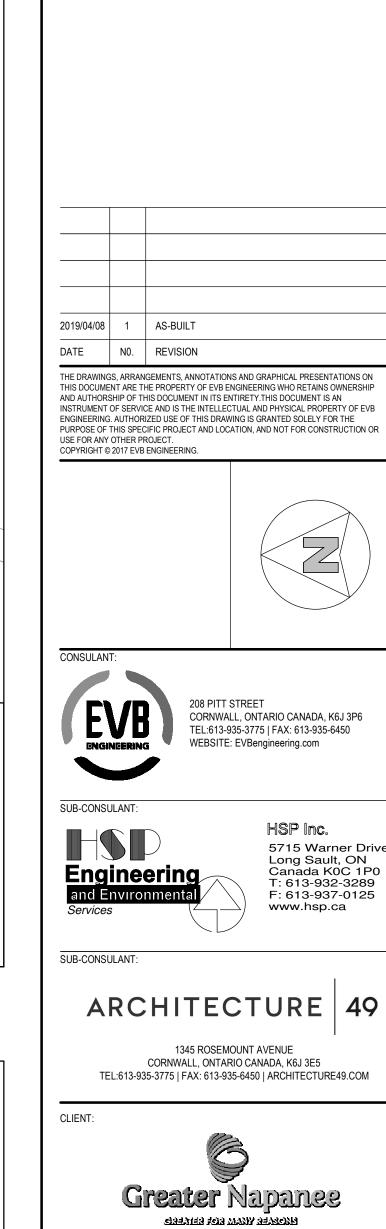
MAXIMUM



NEW PIPE OPENING 1:10



ABANDONED ROOF OPENINGS - TYPICAL DETAIL



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NAPANEE WPCP: ANAEROBIC

DIGESTER BIOGAS UPGRADES

PART ROOF PLAN, SECTIONS,

AND DETAILS

As indicated

DESIGNED BY:

DRAWN BY:

CHECKED BY:

JOB NO:

17102

DRAWING NO.

S1.1

DATE: 2017/09/08

SEE S1.3 FOR GENERAL NOTES

- TIE IN NEW GUARD TO

EXISTING (GUARD AT

DIGESTER TO REMAIN)

HANDRAIL

EXTENSION

PROVIDE ALUMINUM CLIP

VERTICALLY SLOTTED TO

PERMIT ADJUSTMENT)

TO SUPPORT STRINGER

CANTILEVER OFF UPPER

ROOF. DO NOT ANCHOR

LOCATE TIGHT TO

L102x102x6.4x100 LG.

(BOLTED AND

TO ROOF

DIGESTER

ALL METALS TO BE ALUMINUM

PROVIDE EXPANSION JOINTS IN

VERTICAL POSTS AND HANDRAILS

DISSIMILAR METALS, CONCRETE

OR MASONRY WITH 2 COATS OF

SUBMIT P. ENG. STAMPED SHOP

DRAWINGS OF ALL GUARDS AND

HORIZONTAL RAILS AT 6m o.c.

ISOLATE ALUMINUM FROM

ALUMINUM COLOURED

BITUMINOUS PAINT.

LANDINGS.

TO BE CONTINUOUS.

MAXIMUM.

ALLOY 6061-T6 OR BETTER.

1394 ±

1394 ±

1500 ±

VERIFY

VERIFY /

NEW OPENING FOR 150Ø

1167 ±

 $3500 \pm$

1167 ±

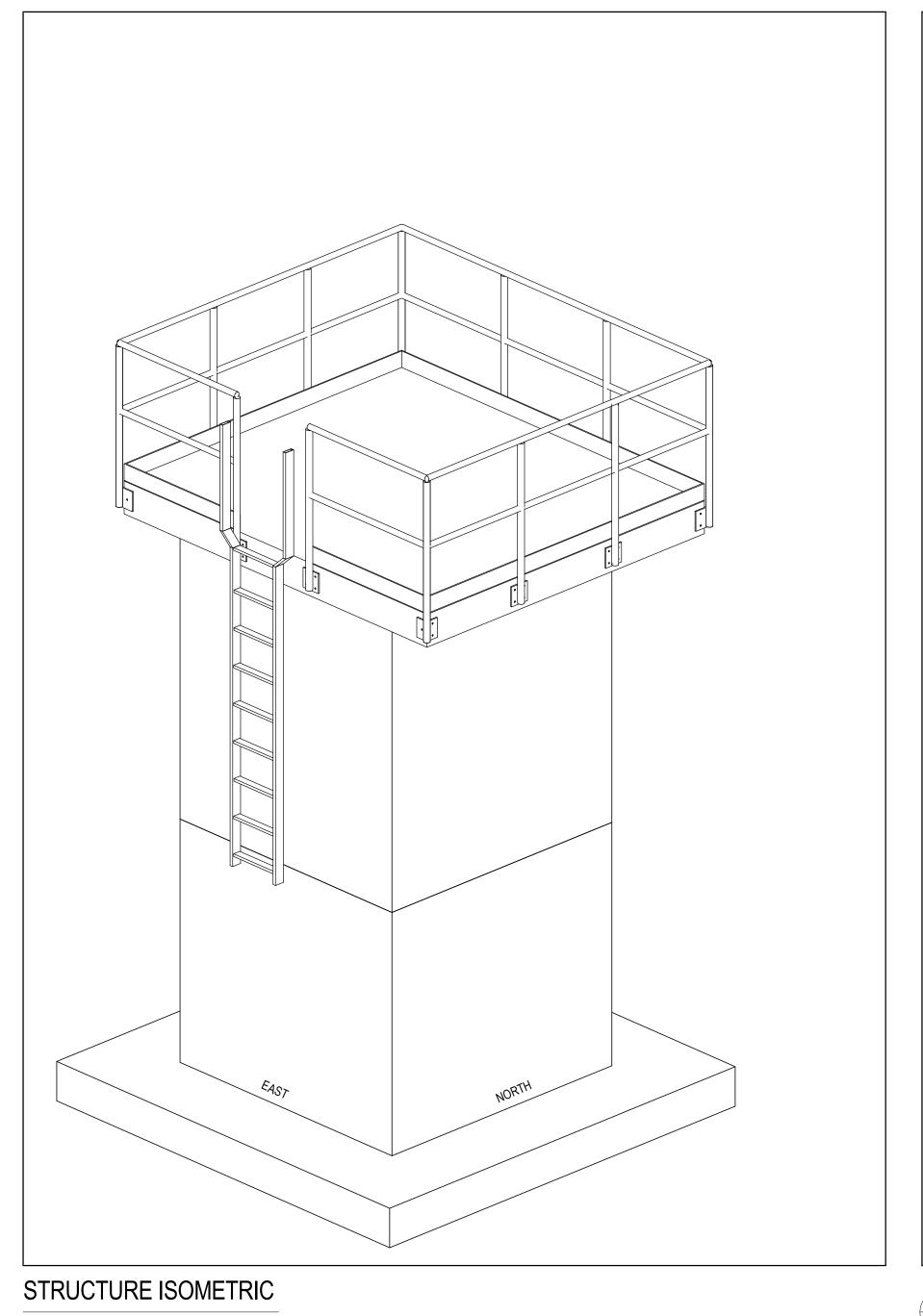
NEW GUARD. REFER TO

TYPICAL DETAILS

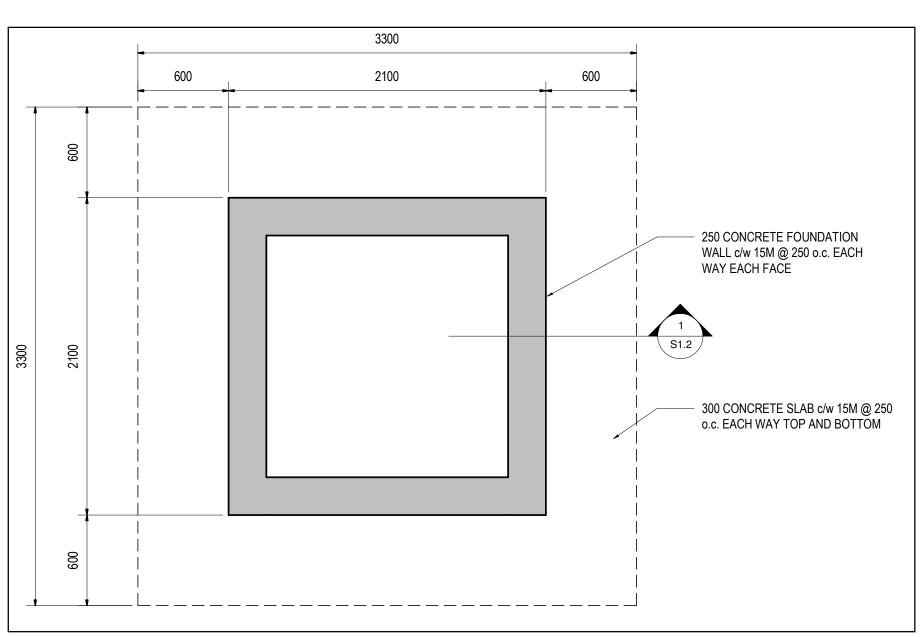
PIPE (SEE DETAIL)

1394 ±

1:10

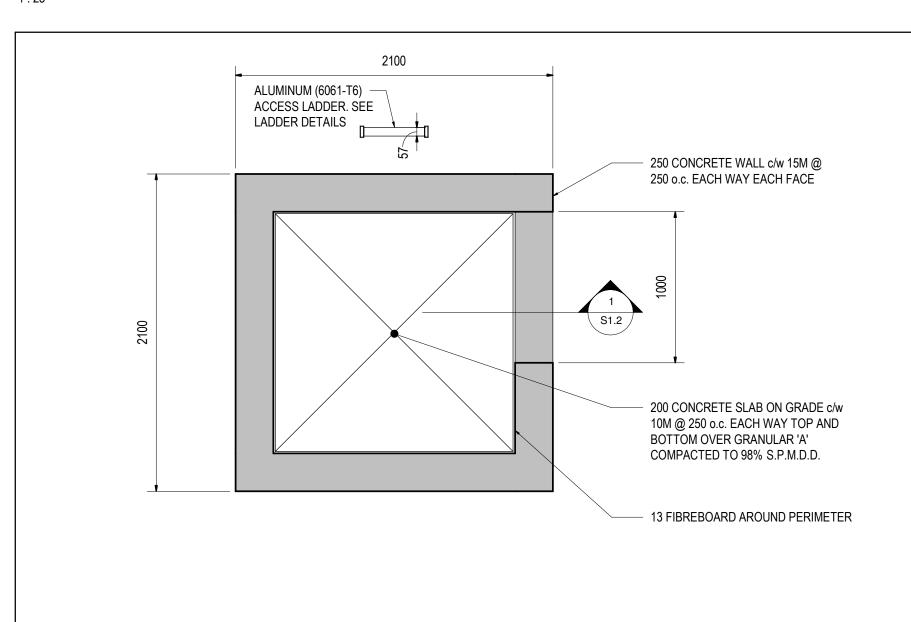


ANCHOR FLARE STACK TO TOP SLAB IN ACCORDANCE WITH MANUFACTURER'S DESIGN. PROVIDE P. ENG. STAMPED ANCHOR BOLT DESIGN WITH STACK DESIGN SUBMITTALS. COORDINATE SO THAT SLAB REBAR IS NOT CUT DURING ANCHOR INSTALLATION. ALL ANCHORS TO BE STAINLESS STEEL ALUMINUM GUARD. REFER TO TYPICAL DETAILS ON \$1.1 -FIXED ACCESS LADDER. SEE DETAILS BELOW CONCRETE ROOF SLAB. REFER TO ROOF REFER TO GUARD ATTACHMENT FRAMING PLAN 2-20M DETAIL ON THIS DRAWING - 10M TIES @ 200 o.c. 2-20M FORM 10mm DEEP DRIP EDGE AROUND PERIMETER DOWELS TO MATCH VERTICALS - STAINLESS STEEL SCREENED DOOR. REFER TO PROCESS DRAWING P4.1 50 CLEAR SLAB OPENINGS TO SUIT CONCRETE WALL. REFER TO GROUND LEVEL PLAN 13 FIBREBOARD AROUND PERIMETER DOWELS TO MATCH VERTICALS -FINISHED GRADE GRANULAR 'A' BACKFILL CONCRETE FOUNDATION WALL. COMPACTED TO 98% S.P.M.D.D. REFER TO FOUNDATION PLAN GRANULAR 'A' BACKFILL COMPACTED DOWELS TO MATCH VERTICALS TO 98% S.P.M.D.D. SLS = 125 kPa ULS = 150 kPa CONCRETE BASE SLAB. REFER TO FOUNDATION PLAN



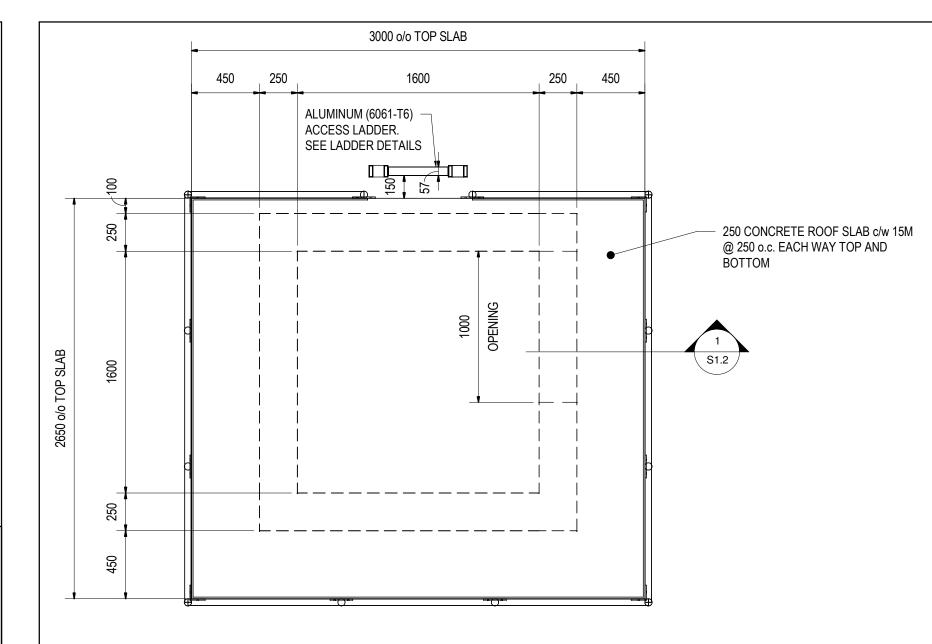
FOUNDATION PLAN

1:25



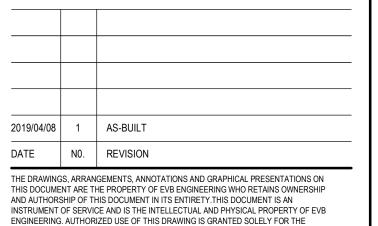
GROUND LEVEL PLAN

1:25



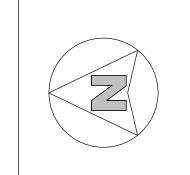
ROOF FRAMING PLAN

1:25



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SEE S1.3 FOR GENERAL NOTES



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ARCHITECTURE 49

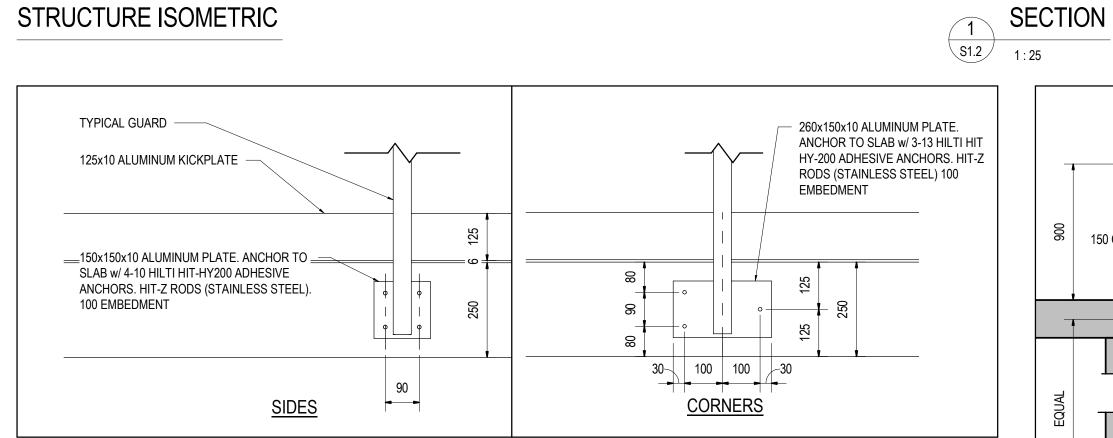
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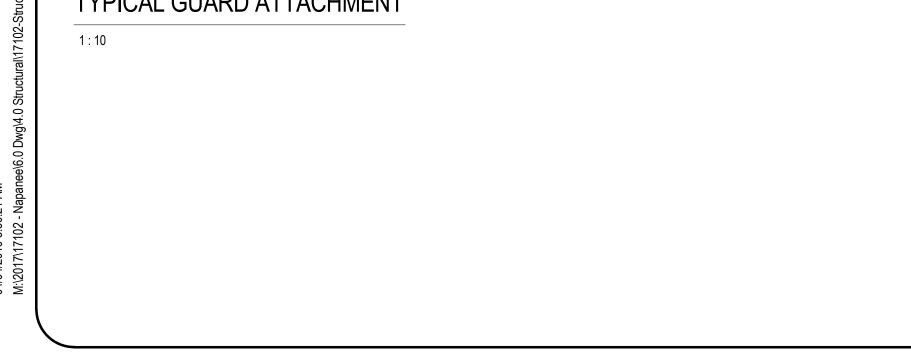
NAPANEE WPCP: ANAEROBIC DIGESTER BIOGAS UPGRADES

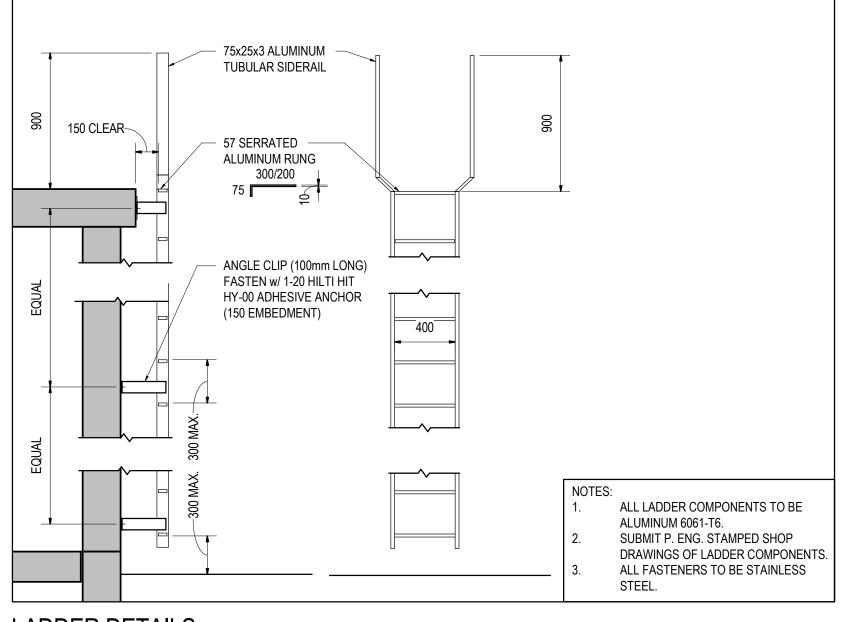
FLARE STACK FOUNDATION, GROUND AND ROOF FRAMING PLANS, SECTION, AND DETAILS

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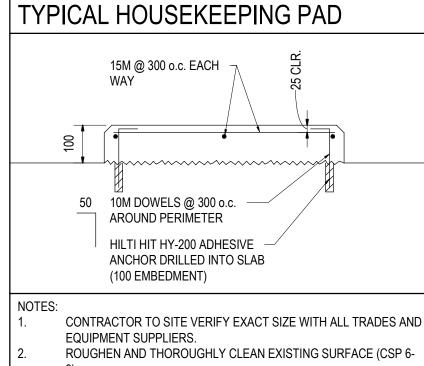


TYPICAL GUARD ATTACHMENT

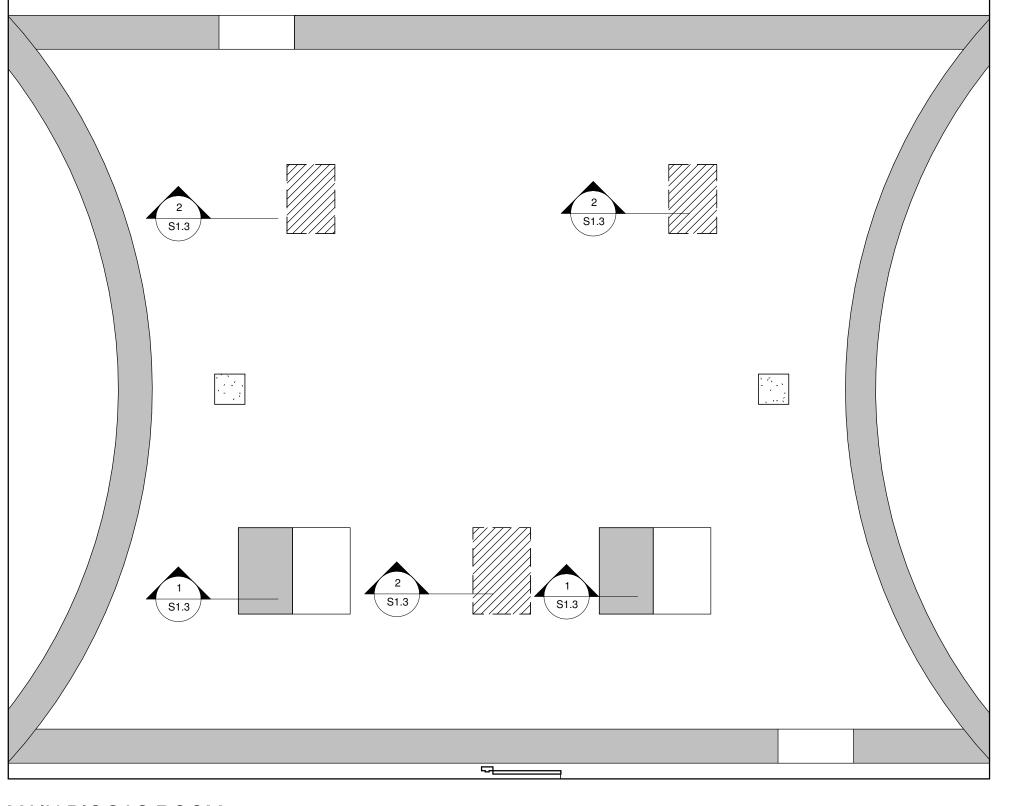




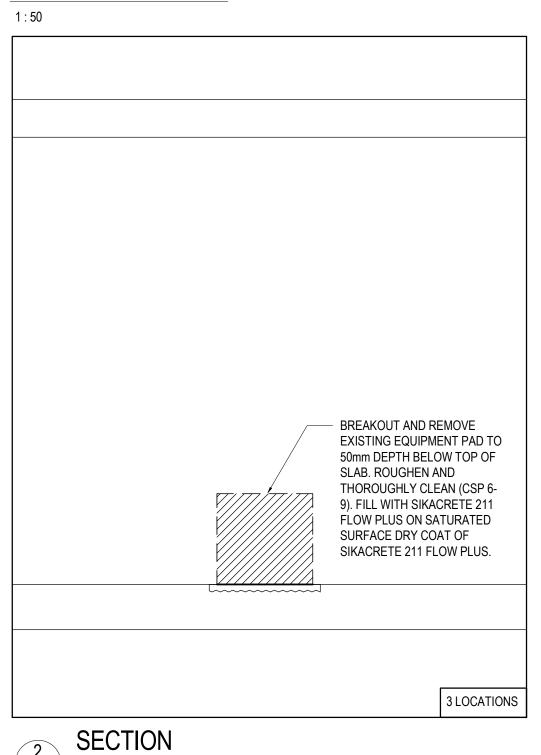
LADDER DETAILS 1:25

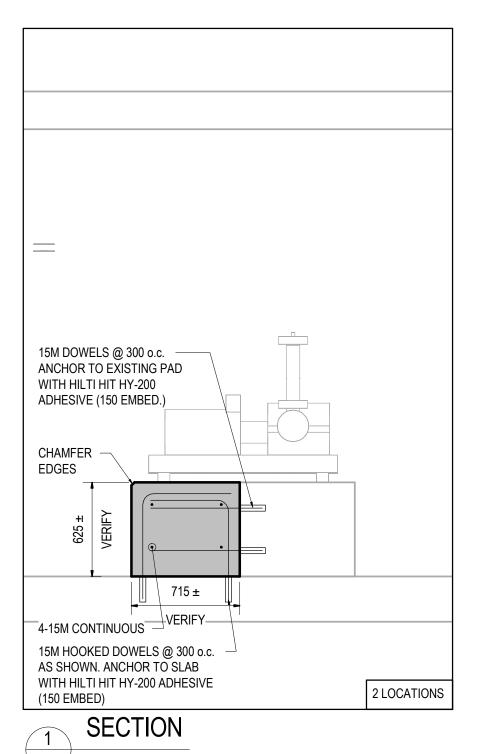


CONCRETE TYPES SCHEDULE MINIMUM 28 DAY MAXIMUM SLUMP EXPOSURE | W/C RATIO | AIR CONTENT | COMPRESSIVE CLASS STRENGTH MIX 1 - FLARE STACK CONCRETE 35 MPa SEE NOTE 2 C-1 0.40 5-8% MIX 2 - CONCRETE PADS 25 MPa SEE NOTE 2 N 0.55 MAXIMUM AGGREGATE SIZE OF ALL CONCRETE TO BE 20mm. PROVIDE A CONCRETE MIX DESIGN WITH A SLUMP OF 50mm. ADD SUPER PLASTICIZER TO PRODUCE A CONCRETE SLUMP OF 125±



MAIN BIOGAS ROOM





GENERAL NOTES

GENERAL

- DESIGN WORK IN ACCORDANCE WITH THE 2012 ONTARIO BUILDING CODE. CONSTRUCT IN ACCORDANCE WITH THE 2012 ONTARIO BUILDING CODE AND THE APPLICABLE REQUIREMENTS OR BY-LAWS OF THE AUTHORITY HAVING JURISDICTION.
- SITE VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS. REPORT DISCREPANCIES TO THE CONSULTANT.
- THE GENERAL CONTRACTOR IS RESPONSIBLE TO REVIEW ARCHITECTURAL AND STRUCTURAL DRAWINGS TO ENSURE DIMENSIONS CONFORM BETWEEN THE TWO. REPORT DISCREPANCIES TO THE CONSULTANT.
- REVIEW AND APPLY CONTRACT SPECIFICATIONS IN ADDITION TO ALL OTHER DISCIPLINE DRAWINGS AND SPECIFICATIONS. SHOULD DISCREPANCIES EXIST WITH DETAILS SHOWN BY OTHER DISCIPLINES, ASSUME THE MORE STRINGENT DETAIL APPLIES UNLESS DIRECTED OTHERWISE BY THE ENGINEER OF RECORD.
- ALL LABOUR AND MATERIALS IN ACCORDANCE WITH THE LATEST EDITION OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND THE 2012 ONTARIO BUILDING CODE. THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED
- STRUCTURE ACTING AS A WHOLE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE TEMPORARY SHORING, BRACING ETC. AS REQUIRED TO ENSURE STABILITY AND SAFETY OF THE WORKERS DURING CONSTRUCTION. THE GENERAL CONTRACTOR IS RESPONSIBLE TO
- ENSURE THE CONSTRUCTION METHODS WILL NOT CAUSE DAMAGE TO SURROUNDING BUILDINGS, STRUCTURES OR UTILITIES. DOCUMENT AND PREPARE A PRE-CONSTRUCTION SURVEY AND SUBMIT TO THE CONSULTANT PRIOR TO COMMENCING CONSTRUCTION WHERE APPLICABLE.
- THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH OTHER DISCIPLINES FOR REQUIRED EMBEDDED OR ANCHORED ITEMS OR OPENINGS. NOT ALL ITEMS OR OPENINGS ARE NECESSARILY SHOWN ON THE STRUCTURAL DRAWINGS.
- THE STRUCTURE HAS BEEN DESIGN FOR THE SERVICE LOADING INDICATED. CONTRACTOR RESPONSIBLE TO ENSURE THIS LOADING IS NOT EXCEEDED DURING CONSTRUCTION.
- REVIEW OF SHOP DRAWINGS IF FOR GENERAL CONFORMITY ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL COORDINATION IS

ALUMINUM GUARDS, HANDRAILS AND PLATFORMS

- WHERE INDICATED, ALL GUARD, HANDRAIL, AND PLATFORM MATERIALS SHALL BE ALUMINUM ALLOY 6061-
- PROVIDE EXPANSION JOINTS IN HORIZONTAL GUARDS, HANDRAILS AND KICKPLATES AT MAXIMUM 6M O.C. ALL HANDRAILS AND GUARDS SHALL HAVE A CLEAR SATIN
- ANODIZED FINISH. STAIRS AND PLATFORMS SHALL HAVE A MILL FINISH. ALL GUARD AND HANDRAIL CONNECTIONS TO BE WELDED
- AND GROUND SMOOTH UNLESS NOTED OTHERWISE. SUBMIT SHOP DRAWINGS BEARING THE SEAL OF PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO DETAILING ALL ALUMINUM PLATFORMS, GUARDS AND HANDRAILS IN ACCORDANCE WITH THE INTENT ILLUSTRATED ON THE DESIGN DRAWINGS. FOLLOW MINIMUM LOAD REQUIREMENTS IN
- ACCORDANCE WITH THE 2012 ONTARIO BUILDING CODE. ALUMINUM DESIGN IN ACCORDANCE WITH CAN/CSA S157-05 STRENGTH DESIGN IN ALUMINUM. WELDING AND WELD PROCEDURES IN ACCORDANCE WITH CSA W59.2 AND W47.2 (LATEST EDITIONS).
- ALL FASTENERS SHALL BE STAINLESS STEEL SITE VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS. REPORT DISCREPANCIES TO THE
- CONSULTANT. WHERE ALUMINUM IS IN CONTACT WITH DISSIMILAR METALS, CONCRETE, OR MASONRY, PAINT THE SURFACES IN CONTACT WITH TWO COATS OF ALUMINUM COLOURED BITUMINOUS PAINT.

CONCRETE

- ALL CONCRETE SHALL BE NORMAL WEIGHT DESIGNED TO MEET THE PERFORMANCE CRITERIA INDICATED IN THE CONCRETE TYPE SCHEDULE.
- PROVIDE CERTIFICATION THAT THE PLANT, EQUIPMENT, AND MATERIALS TO BE USED IN CONCRETE COMPLY WITH THE REQUIREMENTS OF CAN/CSA-A23.1/A23.2 AND THAT THE MIX IS ADJUSTED TO PREVENT ALKALI AGGREGATE REACTIVITY PROBLEMS.
- THE AGGREGATE SOURCE MUST BE LISTED ON THE APPROVED LIST PUBLISHED BY THE MINISTRY OF TRANSPORTATION ONTARIO.
- WET CURE CONCRETE COMMENCING IMMEDIATELY AFTER CONCRETE HARDENS. USE NON-STAINING GEOTEXTILE COVERING. ALL SURFACES SHALL BE MAINTAINED CONTINUOUSLY WET FOR A PERIOD OF 7 DAYS. ALTERNATIVELY, A COMPATIBLE CURING COMPOUND IN ACCORDANCE WITH CSA A23.1/A23.2 AND ASTM C309 WILL BE CONSIDERED.
- CONCRETE HAULING TIME: MAXIMUM ALLOWABLE TIME FOR CONCRETE TO BE DELIVERED TO SITE AND DISCHARGED NOT TO EXCEED 120 MINUTES AFTER BATCHING (UNLESS NOTED AS LESS BY CONCRETE SUPPLIER).

REINFORCING STEEL

- ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CAN/CSA G30.18.
- ALL REINFORCING STEEL DETAILING SHALL BE IN ACCORDANCE WITH CAN/CSA A23.1.
- REINFORCING STEEL: GRADE 60 (400MPA). REINFORCING SHALL BE SUPPORTED AND HELD FIRMLY IN PLACE SO AS NOT TO MOVE DURING POURING OPERATIONS. DOWELS SHALL BE HELD FIRMLY IN PLACE AND SHOULD NOT BE SET IN PLACE DURING POURING
- OPERATIONS. MINIMUM REINFORCING CLEAR COVER: BASE SLAB BOTTOM = 75mm BASE SLAB SIDES AND TOP = 50mm SLAB ON GRADE TOP, BOTTOM AND SIDES = 50mm SUSPENDED SLABS TOP, BOTTOM AND SIDES = 25mm WALLS = 50mm

CONCRETE FORMWORK

- ALL FORMWORK SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED AND MAINTAINED IN ACCORDANCE WITH CSA S269.1-16 FALSEWORK AND FORMWORK.
- ALL SHORING WORK FOR THE SUSPENDED SLAB SHALL REMAIN IN PLACE FOR A MINIMUM OF 7 DAYS OR UNTIL THE CONCRETE HAS REACHED 75% OF THE SPECIFIED CONCRETE STRENGTH, WHICHEVER IS LONGER.
- PENETRATIONS SHALL NOT BE PERMITTED IN ANY STRUCTURAL MEMBERS OTHER THAN THOSE INDICATED ON THE STRUCTURAL DRAWING WITHOUT WRITTEN PERMISSION FROM THE ENGINEER OF RECORD

FOUNDATIONS

REFERENCE GEOTECHNICAL MEMORANDUM 11140477-A1 DATED JULY 20, 2017 PREPARED BY GHD. SLS = 125kPa

ULS= 150kPa GEOTECHNICAL CONSULTANT TO VERIFY BEARING CAPACITY IN WRITING PRIOR TO POURING CONCRETE.

CODES AND STANDARDS

GENERAL BUILDING CODE:

ONTARIO BUILDING CODE 2012

STRUCTURAL STEEL CSA S16-14 – DESIGN OF STEEL STRUCTURES

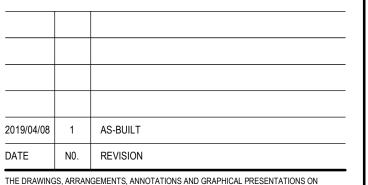
CONCRETE

CAN/CSA-A23.3-04 - DESIGN OF CONCRETE STRUCTURES

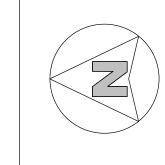
ALUMINUM CSA S157-05 – STRENGTH DESIGN IN ALUMINUM

DESIGN LOADS IMPORTANCE FACTOR - POST DISASTER

- SNOW: Is = 1.25 ULS; Ss = 1.9 kPa; Sr = 0.4 kPa
- WIND: Iw = 1.25 ULS; q (1/50) = 0.43 kPa EQ: SEISMIC SITE CLASS D - le=1.5 STAIRS AND WALKWAYS: DL = 0.5 kPa; LL = 4.8 kPa
- GUARDS AND HANDRAILS: IN ACCORDANCE WITH ONTARIO BUILDING CODE 4.1.5.14. - SPECIFIED HORIZONTAL LOAD OF 0.75 kN/m OR A
- CONCENTRATED LOAD OF 1.0 kN APPLIED AT ANY POINT. - PICKET DESIGN (IF APPLICABLE) = 0.50 kN CONCENTRATED LOAD AT ANY POINT IN THE ELEMENT. - SPECIFIED LOAD OF 1.5 kN/m APPLIED VERTICALLY AT THE TOP OF THE GUARD.
- 6. FLARE STACK = 12 kN



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ARCHITECTURE 49

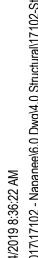
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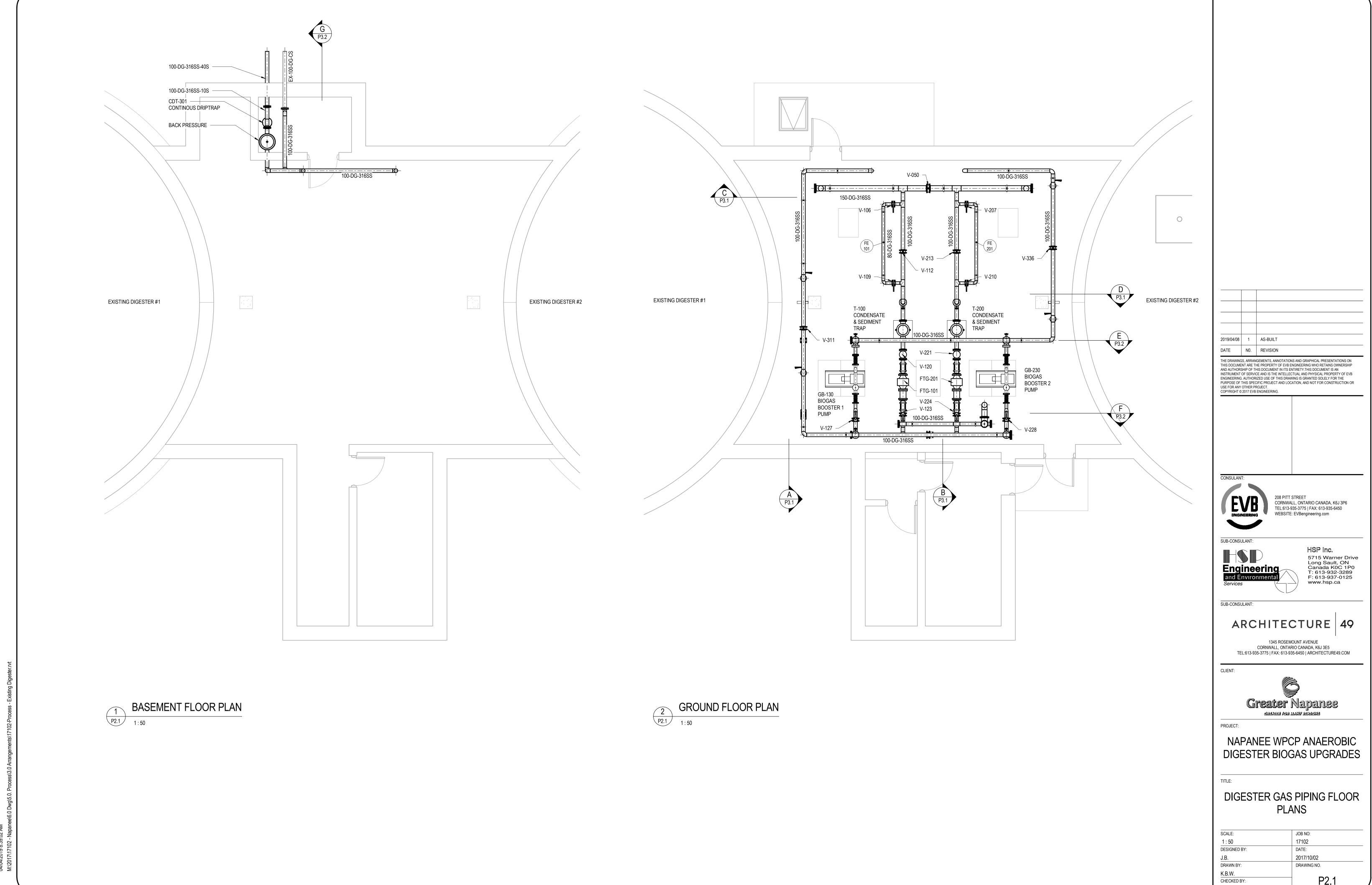


NAPANEE WPCP: ANAEROBIC DIGESTER BIOGAS UPGRADES

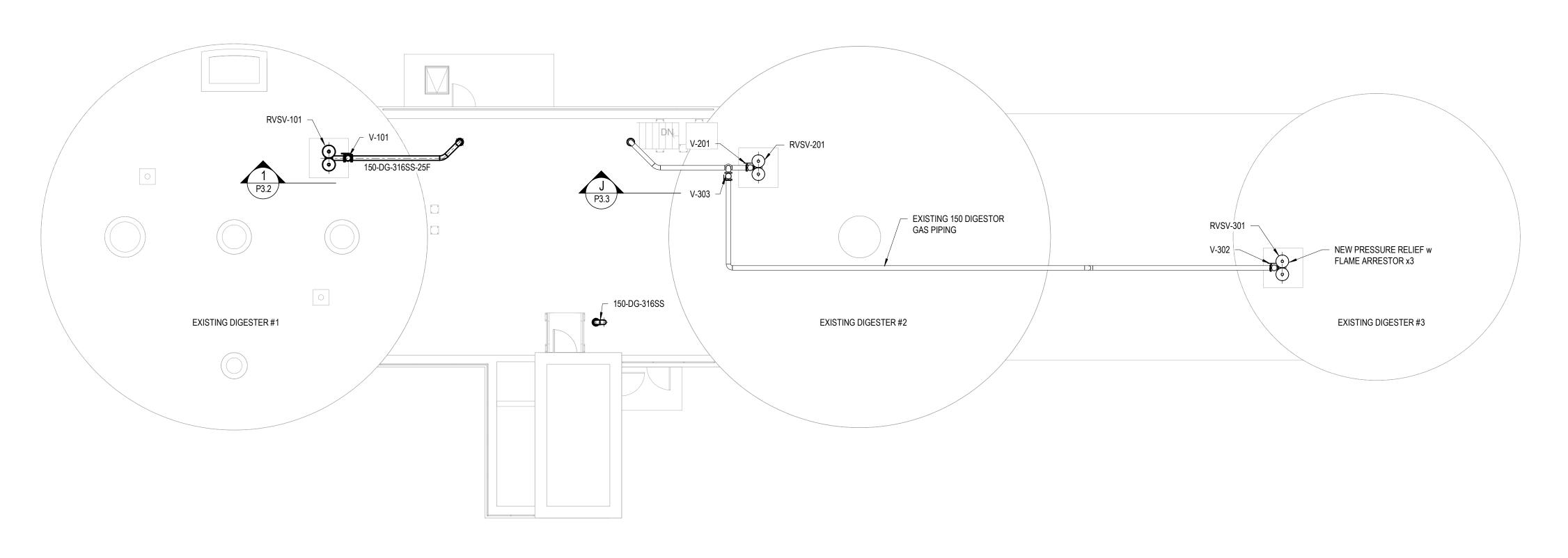
GENERAL NOTES, STRUCTURAL REMOVALS, AND TYPICAL **DETAILS**

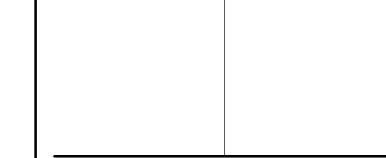
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P2.1





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Engineering and Environmental Services

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CLIENT:



PROJECT:

NAPANEE WPCP ANAEROBIC DIGESTER BIOGAS UPGRADES

TITI F

DIGESTER GAS PIPING FLOOR PLAN - ROOF

SCALE:

1: 100
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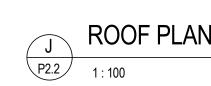
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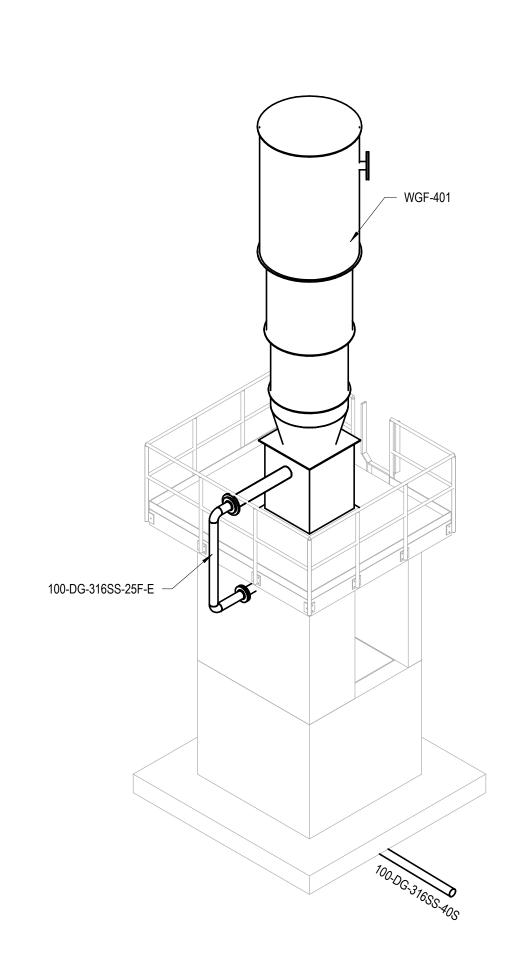
K.B.W.
CHECKED BY:

M.V.

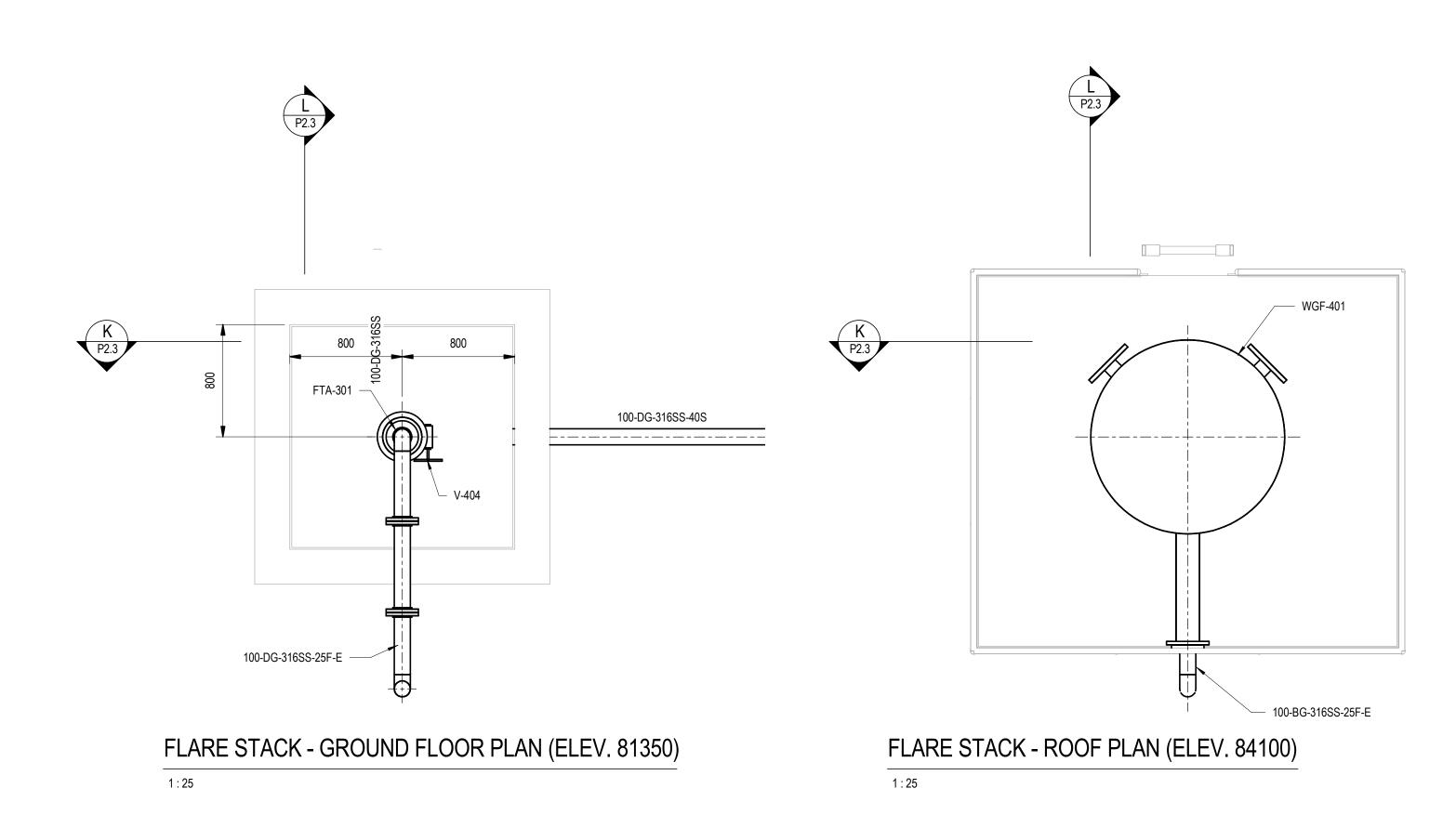
JOB NO:
17102
DATE:
2017/10/02
DRAWING NO.

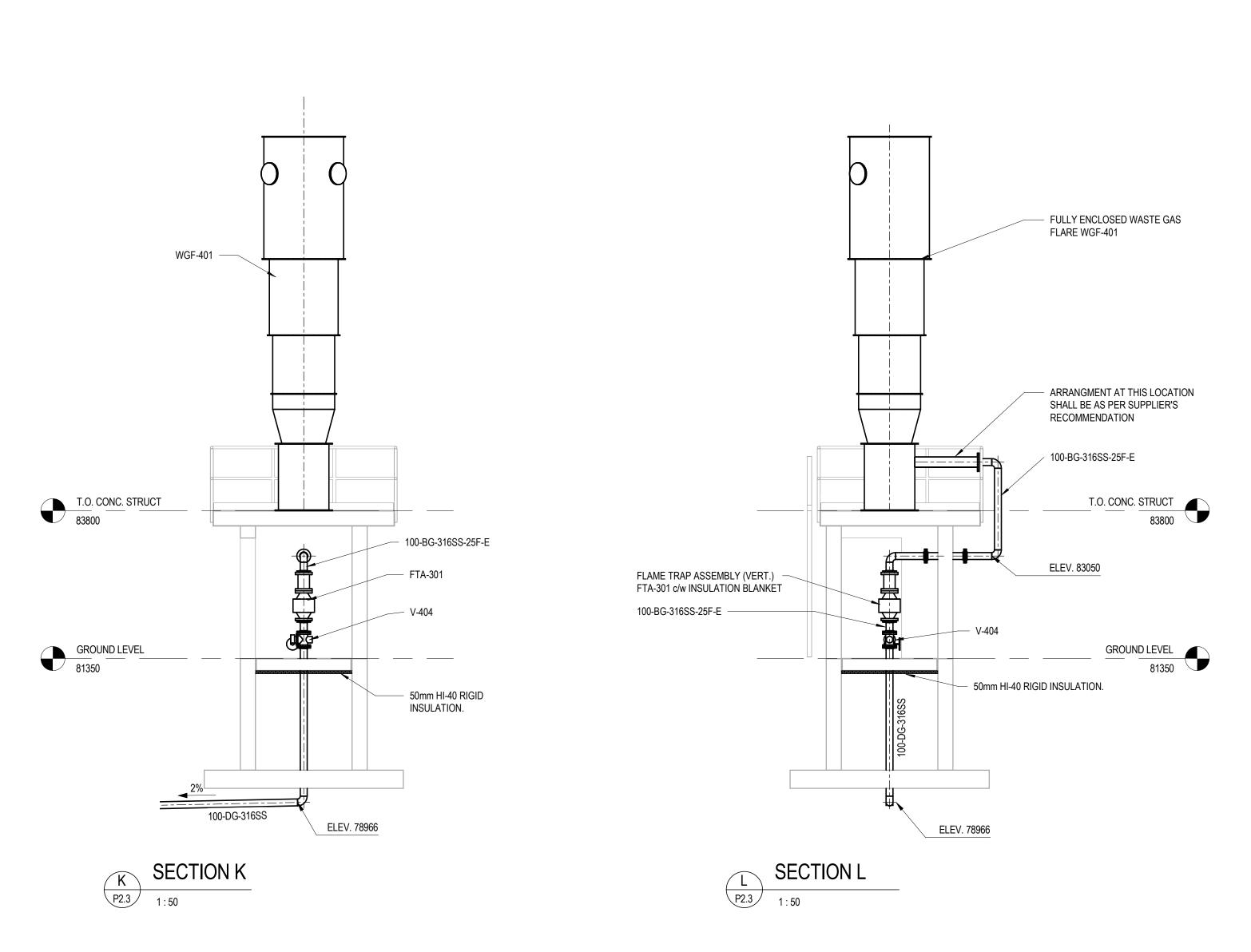
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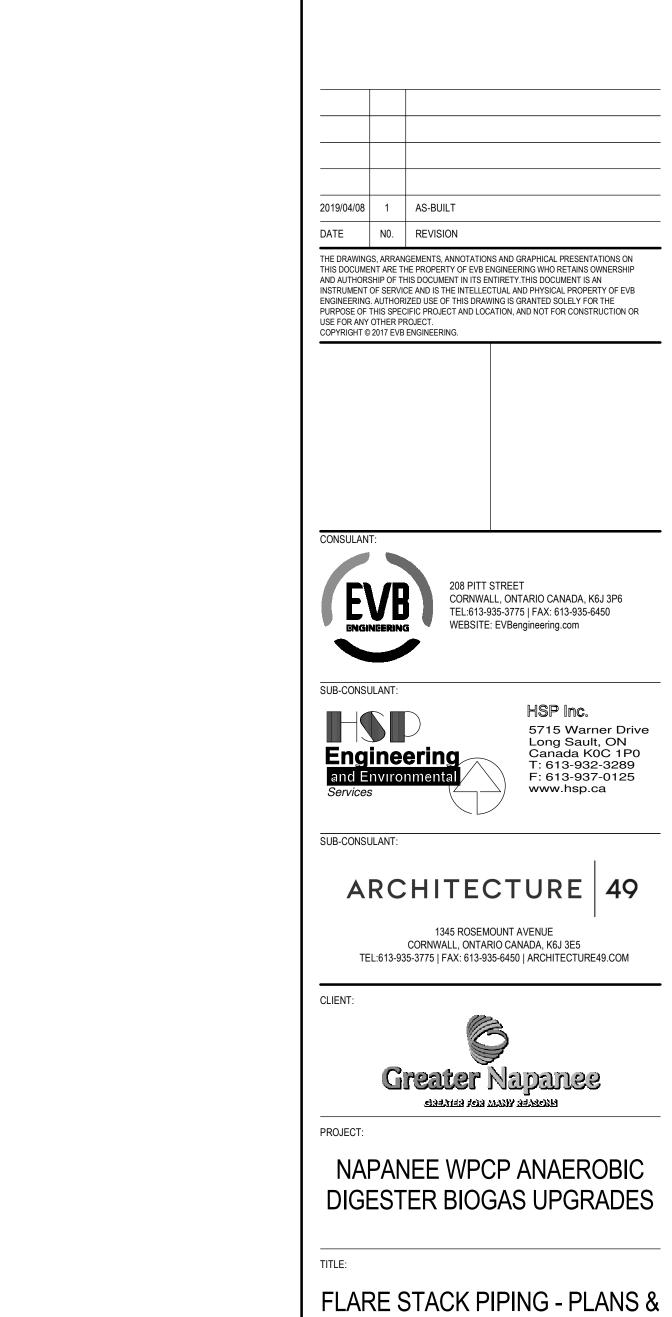




3D - FLARE STACK







HSP Inc.

SECTIONS

As indicated

DESIGNED BY:

J.B. DRAWN BY:

K.B.W. CHECKED BY:

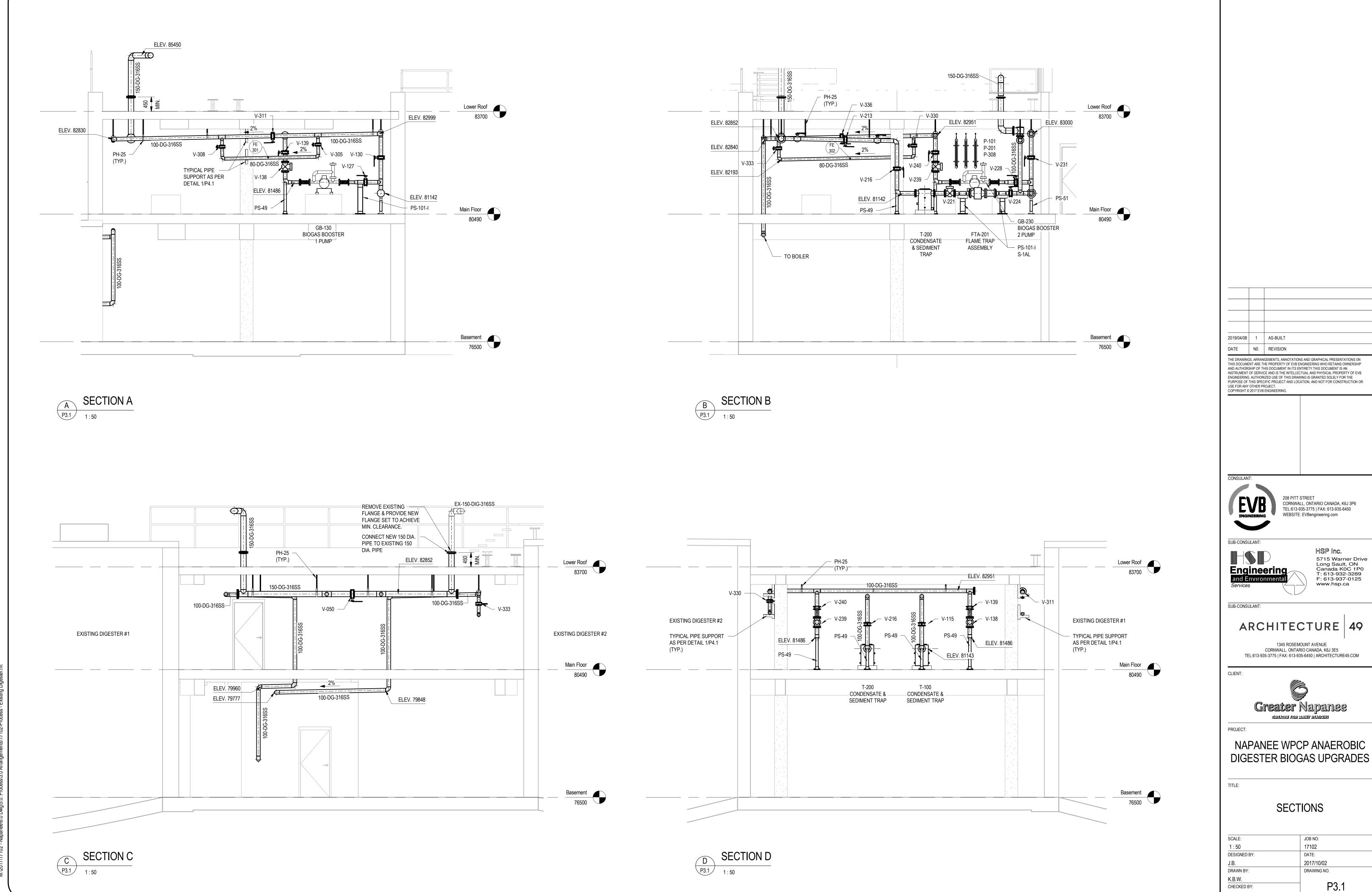
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DATE:

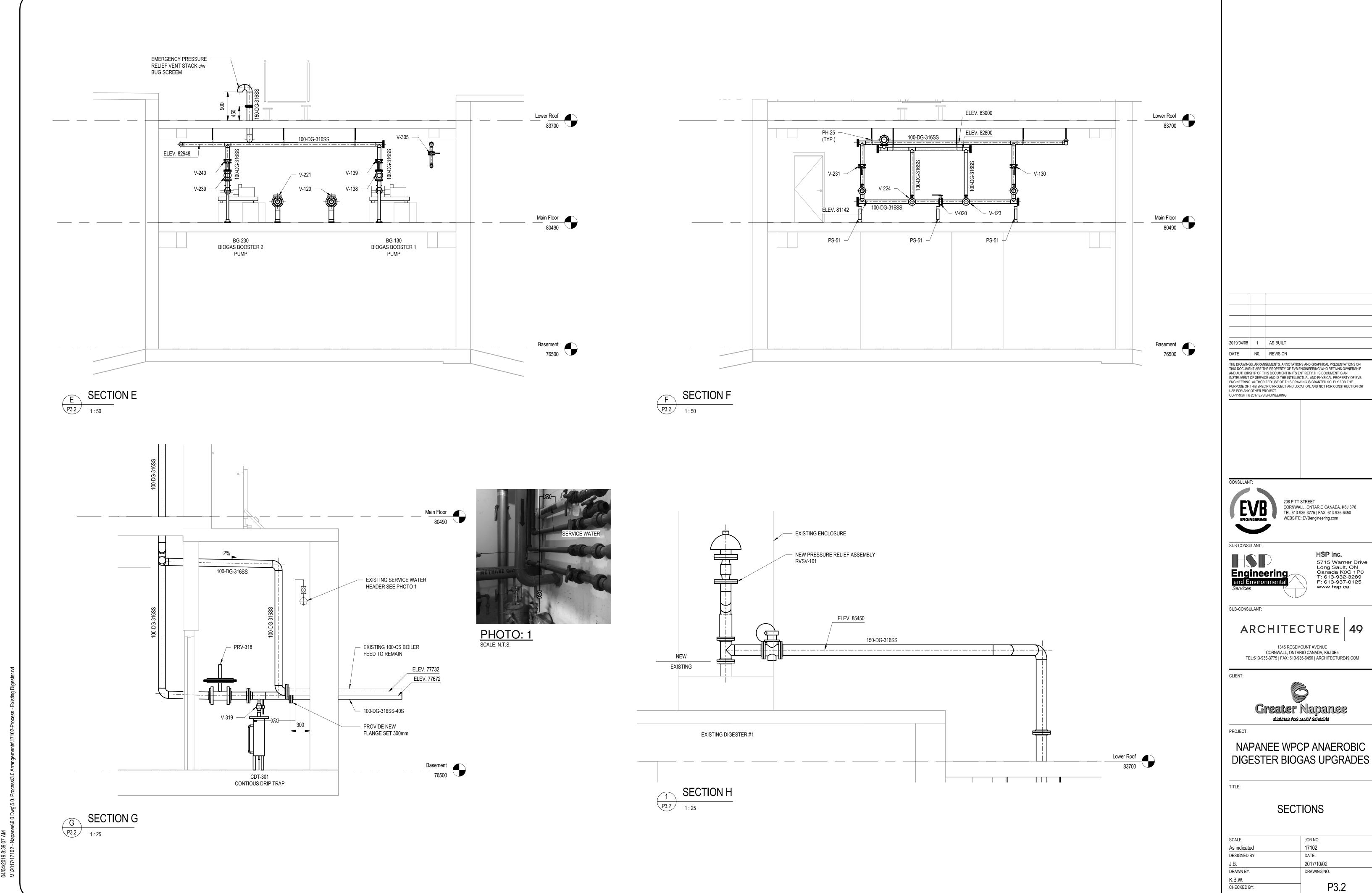
2017/10/02 DRAWING NO.

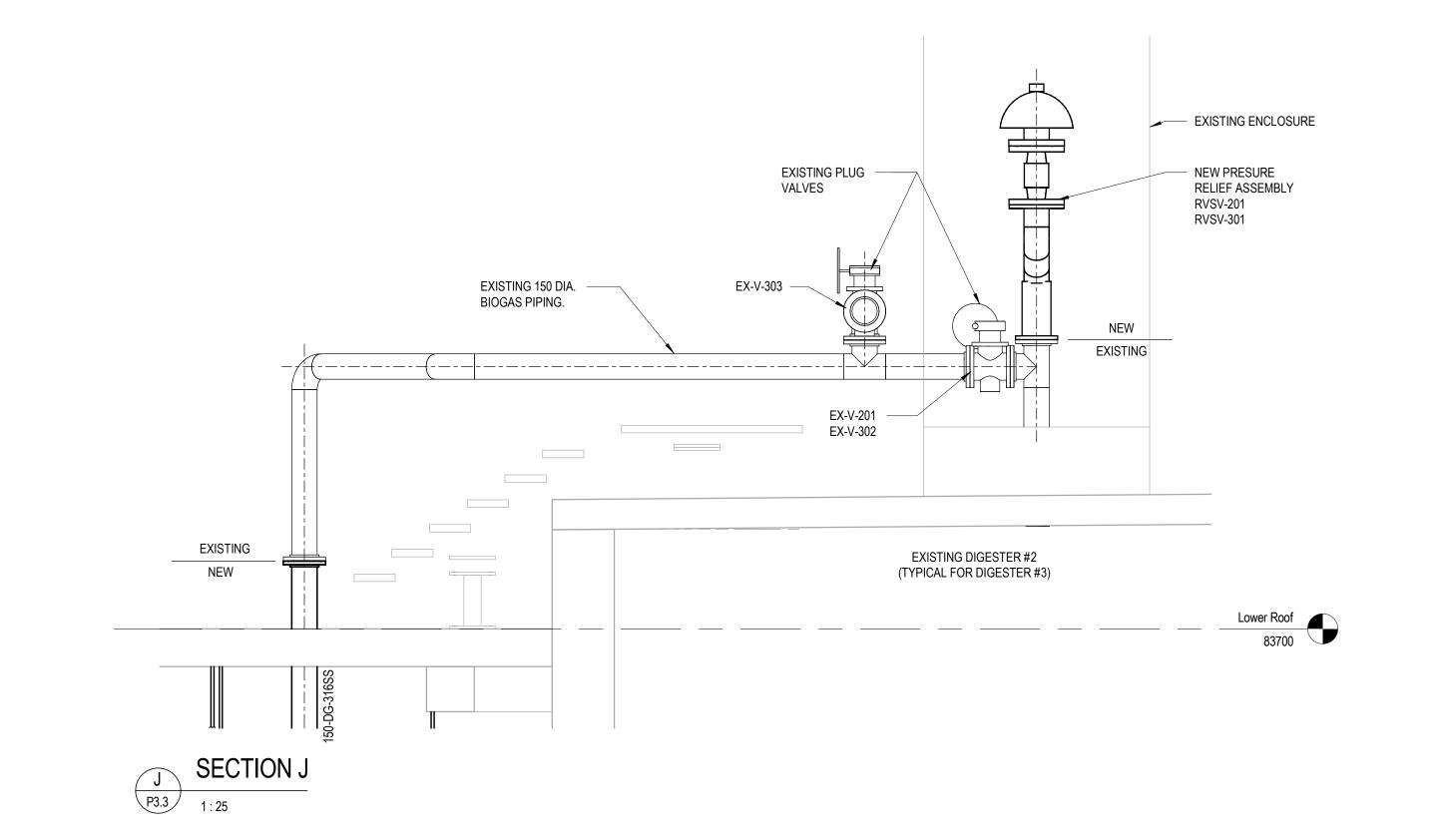
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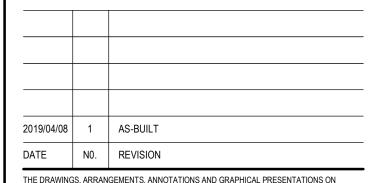
5715 Warner Drive Long Sault, ON Canada K0C 1P0 T: 613-932-3289 F: 613-937-0125 www.hsp.ca



P3.1







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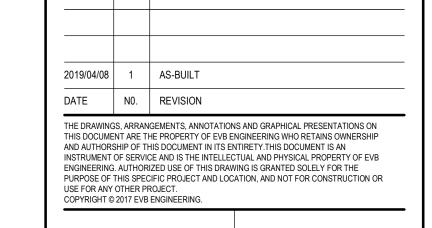
NAPANEE WPCP ANAEROBIC DIGESTER BIOGAS UPGRADES

TITLE:

SECTIONS

SCALE:	JOB NO:	
1:25	17102	
DESIGNED BY:	DATE:	
J.B.	2017/10/02	
DRAWN BY:	DRAWING NO.	
K.B.W.		
CHECKED BY:	P3.3	
M.V.		

3D - ROOF PLAN VIEW



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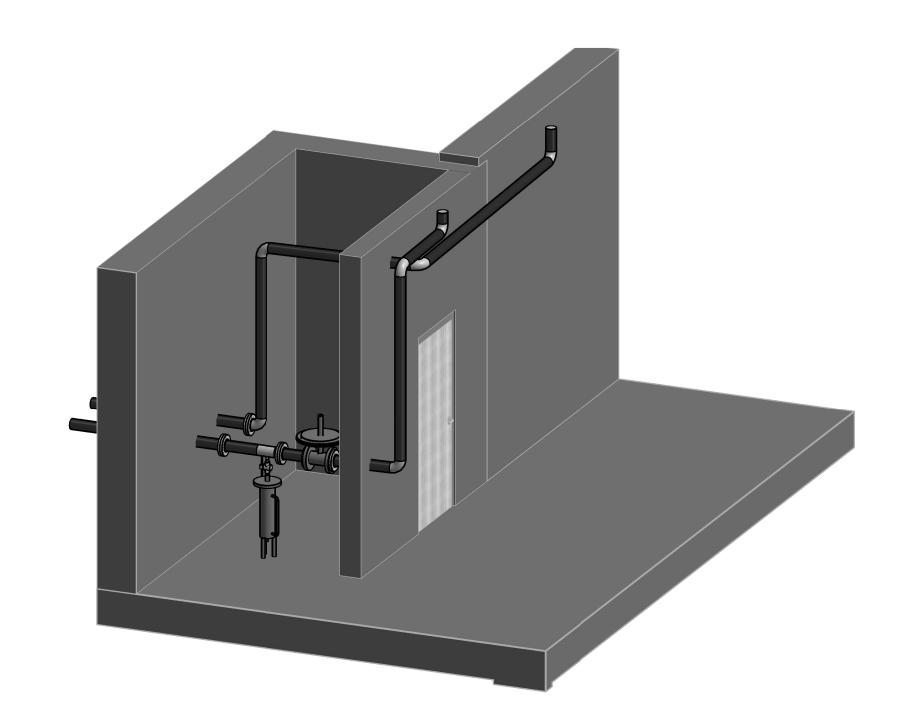


NAPANEE WPCP ANAEROBIC DIGESTER BIOGAS UPGRADES

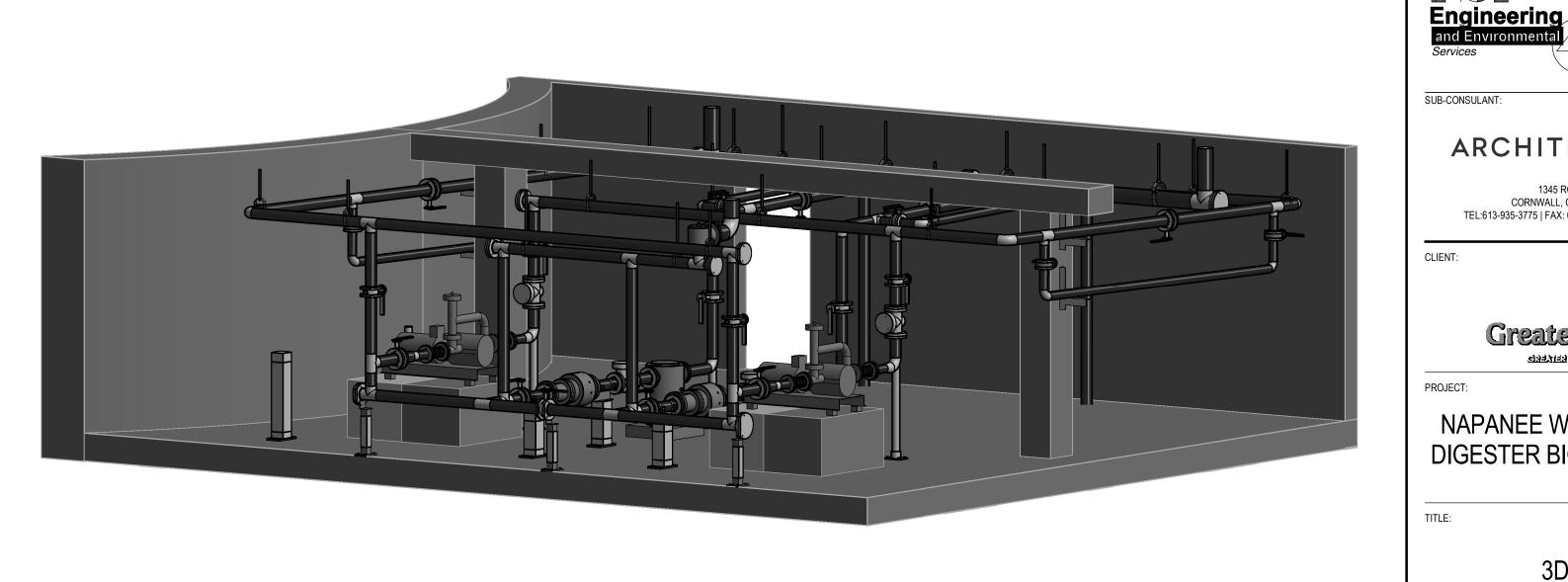
TITLE:

3D VIEWS

SCALE:	JOB NO:
	17102
DESIGNED BY:	DATE:
J.B.	2017/10/02
DRAWN BY:	DRAWING NO.
K.B.W.	
CHECKED BY:	P6.1
M.V.	



3D - FLARE STACK VIEW



3D -BASEMENT FLOOR VIEW 3D - GROUND FLOOR VIEW

