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<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON JANUARY 21, 2012</b>
<b>FROM:</b>	<b>JOHN BRAAM, P. ENG. MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES &amp; CITY ENGINEER AND MIKE TURNER, DEPUTY CITY TREASURER</b>
<b>SUBJECT</b>	<b>SOUTHERN ONTARIO WATER CONSORTIUM -- LONDON WASTEWATER FACILITY</b>

<b>RECOMMENDATION</b>
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- a) That, on the recommendation of the Managing Director, Environmental and Engineering Services & City Engineer, the by-law attached as Appendix A **BE INTRODUCED** at the Municipal Council meeting of January 29, 2013, to approve an Agreement with the University of Western Ontario for the construction of the Southwestern Ontario Water Consortium – London Wastewater Facility, and authorize the Mayor and City Clerk to sign the Agreement;
- b) That, on the recommendation of the Managing Director - Environmental and Engineering Services & City Engineer, and the Deputy City Treasurer, the Deputy City Treasurer **BE AUTHORIZED** to award a future, tendered contract for construction of the Southern Ontario Water Consortium – London Wastewater Facility at a dollar limit higher than Section 13.2 and Schedule A of the Procurement of Goods and Services Policy, but not greater than \$8 million;  

It being noted that all other requirements for the contract award under the Procurement of Goods and Services Policy will be maintained, and that an information report will be provided to the Civic Works Committee on the award result;

It being further noted that this action will accelerate the expenditure of FedDev funds (through the University of Western Ontario Agreement) that are to be claimed within a specified timeline;
- c) That, on the recommendation of the Managing Director - Environmental and Engineering Services & City Engineer, the financing for the Southwestern Ontario Water Consortium – London Wastewater Facility **BE APPROVED** as set out in the Sources of Financing Report attached hereto as Appendix B.

<b>PREVIOUS REPORTS PERTINENT TO THIS MATTER</b>
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April 23, 2012. CWC Staff Report – Water Technology Centre Pre-Design and Design Consultant Appointment.

August 15, 2011. Built and Natural Environment Committee Staff Report - Water Technology Centre Initiative Update

<b>BACKGROUND</b>
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**Purpose:**

This report seeks approvals required to expedite construction of the Southern Ontario Water Consortium – London Wastewater Facility (SOWC-LWF). The first recommendation provides the mechanism by which Federal Economic Development Agency for Southern Ontario (FedDev) funding for the facility will flow from the SWOC to the City. The second recommendation is to delegate authority to staff to award a future, construction contract for the

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SOWC-LWF in accordance with the Procurement of Goods and Services policy with an exception: increasing the delegated authority limits of staff above \$1,000,000 for tendered contracts. This increase is necessary to ensure that the final stage of construction is completed within the timelines specified in the FedDev funding agreement with the SOWC.

**Discussion:**

As announced in August, 2011, the Federal Government through FedDev has partnered with the SOWC to develop the LWF. The city of London and the University of Western Ontario are members of the SOWC. The LWF will focus on developing new water treatment technologies and will be constructed at the Greenway Wastewater Treatment Plant.

Revised Funding

The City of London has allocated \$3.8 million to the project. The original FedDev commitment was \$5.4 million but has been reduced by about \$700,000 due to changes in the scope of the work eligible for cost recovery. The revised maximum Fed/Dev claim for costs is \$4,731,194. Procurement of all goods and services related to the project will be by the City.

Project expenses eligible for FedDev funding will be recovered from the SOWC through the recommended University of Western Ontario Agreement (Schedule A of Appendix A), as authorized by the recommended By-law (Appendix A). The total project funding, subject to the approval of the recommendations of this report, is summarized in Appendix B – Sources of Financing Report. The Agreement has been reviewed by the City Legal Department.

Funding and Project Schedules

The FedDev funding has been allocated in two tranches with specific timelines for each. Funds not expended within the identified timelines will be clawed back. The first tranche totalling \$920,000 will be used to complete the facility design and to pre-purchase some of the process equipment. This equipment is to be tendered, delivered and installed prior to the March 31, 2013 deadline.

City funds and the second tranche of FedDev funding will be used to complete the LWF, including re-purposing of the existing Greenway dewatering building and installation of the remaining process and ancillary equipment. This work will be completed under a single, tendered, construction contract which must be completed by March 31, 2014 under deadlines imposed by FedDev. This timeline will be difficult for the following reasons:

- The contract tender could not be advertised until early January - meaning Municipal Council approval and document execution will not be completed until May 1, 2013, at the earliest, under normal reporting and award procedures that follow the Procurement of Goods and Services Policy. This would leave only 10 months to complete the work.
- The LWF will be located in the existing biosolids dewatering building which will not be available until the Greenway PCC Dewatering upgrades (Contract T12-46) are completed at the end of May, 2013. Extensive demolition and re-modelling will be required to make the space suitable, and will account for a substantial portion of the work under the contract.

However, LWF contract work outside of the existing dewatering building can begin much earlier if a contract can be awarded more expeditiously. Granting staff the authority to award the tendered construction project will add an additional six weeks of construction time to the timetable and help to meet the strict timelines mandated by the FedDev funding requirements. Staff is also exploring ways to make the biosolids building available before the end of May.

The value of the contract cannot be more than \$8 million based on available funding from the City and FedDev. The Managing Director, Environmental and Engineering Services & City Engineer and the Deputy City Treasurer will provide a report to the Municipal Council on the contractor selected, the value of the contract, and any anomalies considered in the award process.

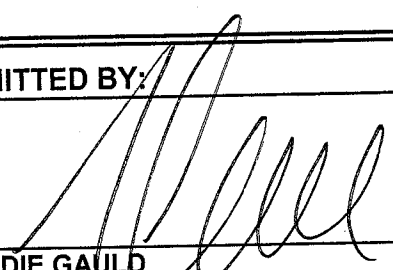
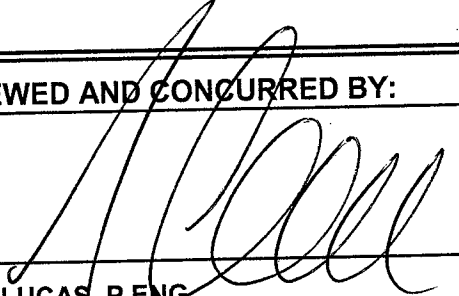
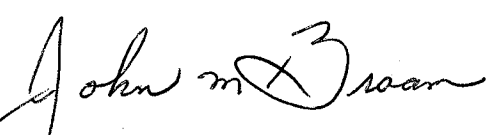
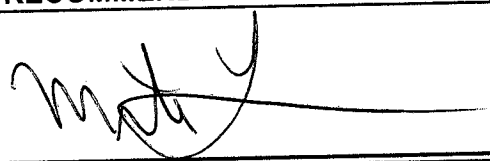
Project Support

The London Economic Development Corporation continues to support the research and validation centre at Greenway because of the economic development opportunities it can provide. A letter of support is provided in Appendix C.

The International Water Centre of Excellence (with Board Members from LEDC, University of Western Ontario, Industry and the City) have indicated their support for the final design of the project, and the recommendations of this report to expedite the project (Appendix D).

**Conclusion:**

It is recommended that the Municipal Council approve the funding agreement that will allow FedDev funding to flow to the City for construction of the Southern Ontario Water Consortium -- London Wastewater Facility, and delegate authority to the Deputy City Treasurer to award the construction contract for it, notwithstanding the limits for staff authority under the Procurement of Goods and Services Policy. This delegated authority will assist in meeting the tight March 31, 2014 timeline dictated by the FedDev funding agreement, beyond which date cost recoveries cannot be made.

<b>SUBMITTED BY:</b>	<b>REVIEWED AND CONCURRED BY:</b>
	
<b>GEORDIE GAULD DIVISION MANAGER, WASTEWATER AND TREATMENT OPERATIONS</b>	<b>JOHN LUCAS, P.ENG. DIRECTOR, WATER &amp; WASTEWATER AND TREATMENT</b>
<b>RECOMMENDED BY:</b>	<b>RECOMMENDED BY:</b>
	
<b>JOHN BRAAM, P.ENG. MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES &amp; CITY ENGINEER</b>	<b>MIKE TURNER, DEPUTY CITY TREASURER</b>

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January 10, 2013

Appendices:

Appendix A – By-law to authorize and approve a funding Agreement with Western University, including Funding Agreement with Western University

Appendix B – Sources of Financing Report

Appendix C – Letter of Support – LEDC

Appendix D – Letter of Support – IWCE

cc. Peter White – President and CEO, LEDC  
Dan Sinai – President, The International Water Centre of Excellence

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Attachments: Appendix 'A' – By-law

**APPENDIX A**

Bill No.  
2013

By-law No.

A By-law to authorize and approve an Agreement between The Corporation of the City of London and The University of Western Ontario regarding construction of the Southwestern Ontario Water Consortium – London Wastewater Facility and to authorize the Mayor and Clerk to execute the agreement

AND WHEREAS subsection 5(3) of the *Municipal Act, 2001* S.O. 2001, c.25, as amended, provides that a municipal power shall be exercised by by-law;

AND WHEREAS section 9 of the *Municipal Act, 2001* provides that a municipality has the capacity, rights, powers and privileges of a natural person for the purpose of exercising its authority under this or any other Act;

AND WHEREAS it is deemed expedient for the Corporation of the City of London to enter into an Agreement with The University of Western Ontario to provide for the construction of the Southwestern Ontario Water Consortium – London Wastewater Facility;

NOW THEREFORE the Municipal Council of The Corporation of the City of London enacts as follows:

1. The Agreement between The Corporation of the City of London and The University of Western Ontario for construction of the Southwestern Ontario Water Consortium – London Wastewater Facility attached as Schedule A to this By-law, is hereby authorized and approved.
2. The Mayor and City Clerk are authorized to execute the agreement authorized and approved under section 1 of this by-law.
3. This by-law shall come into force and effect on the day it is passed.

PASSED in Open Council , 2013

Joe Fontana  
Mayor

Cathy Saunders  
City Clerk

First reading –  
Second reading –  
Third reading –

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**By-law Schedule A**

Funding Agreement with The University of Western Ontario

**THIS AGREEMENT MADE AS OF THE      DAY OF      , 2013**

**Between:**

**THE UNIVERSITY OF WESTERN ONTARIO (“Western”)**

**-and-**

**THE CORPORATION OF THE CITY OF LONDON (“London”)**

**Whereas** Western and London have agreed, as part of the Southwestern Ontario Water Consortium (“SOWC”), to undertake construction of the London Wastewater Facility (SOWC-LWF);

**And whereas** Western is a party to an agreement with the University of Waterloo whereby funds are to be flowed through the University of Waterloo to Western from the Federal Economic Development Agency for Southern Ontario (“FedDev”) for the SOWC-LWF, which agreement is attached hereto as Schedule “A” and shall be referred to as the Inter-Institutional Agreement (“IIA”);

**And whereas** the SOWC-LWF will be located on premises owned and operated by London, and will be connected to other wastewater facilities owned and operated by London;

**And whereas** the parties wish to enter into this Agreement to set out the terms under which the construction of the SOWC-LWF will be undertaken, financed and used in order to ensure compliance with the IIA;

Now therefore in consideration of the mutual promises agreements and covenants herein contained, the receipt and sufficiency whereof is hereby acknowledged, the parties agree as follows:

**Construction of SOWC-LWF**

1. Subject to the City completing a successful bidding and tendering process to secure contractors, subcontractors and sub-trades, London will undertake construction of the SOWC-LWF (the “Project”), in accordance with the design parameters set out in Schedule “B”.

2. London may subcontract all or part of the design and construction of the SOWC-LWF. Notwithstanding any such subcontracting, London shall remain responsible for compliance by London and its subcontractors with this Agreement.

### **Eligible Expenditures**

3. London agrees to be bound to the terms and conditions and general other requirements imposed on the Lead Institution by FedDev or the board of directors of the SOWC, in accordance to Article 3, Funds Administration, outlined in the IIA.
4. Eligible Expenditures are those approved expenditures in Schedule "C", and shall not exceed a total value of \$4,731,194. Eligible Expenditures must be incurred between March 23, 2011 and March 31, 2014.
5. Subject to the terms of this Agreement, Western shall reimburse London for Eligible Expenditures incurred in the Project.
6. All Eligible Expenditures must be incurred using London's tendering and acquisition policies for the purchase of assets and services.
7. London shall invoice Western monthly for Eligible Expenditures incurred during the immediately preceding month, together with supporting documentation including suppliers' invoices to London. Western shall immediately report such Eligible Expenditures to the University of Waterloo pursuant to the provisions of the IIA, and shall reimburse London for the Eligible Expenditures.. London further agrees to abide by the terms and conditions of Article 4, Financial Record Keeping and Audits, and Article 5, Reporting Obligations in the IIA and assist Western with its reporting requirements for disbursement of funds.
8. The parties may, by agreement in writing, change the time frame for reporting and paying Eligible Expenditures subject to the terms and conditions of the IIA.

### **Access to SOWC-LWF**

9. SOWC-LWF will be located at London's Greenway Pollution Control Centre (the "Centre") and will be attached to equipment owned and operated by London as part of the Centre.
10. Western, and such third parties as Western shall designate, shall have access on reasonable notice to the Centre during the installation, testing and validation of the SOWC-LWF equipment. Access shall at all times be subject to operational requirements of London, including such safety and security precautions as London, acting reasonably, shall deem appropriate.
11. Following installation, testing and validation of the SOWC-LWF equipment, London shall provide non-exclusive access to SOWC-LWF to Western and other users who have

been approved by SOWC. Access shall at all times be subject to operational requirements of London, including such safety and security precautions as London, acting reasonably, shall deem appropriate.

### **Ownership**

12. Western shall retain title to, and ownership of all assets that are acquired with funds provided to London under paragraph 5 of this Agreement and /or form part of SOWC-LWF (the "Equipment"). London acknowledges that Western may not sell, assign, transfer, encumber, pledge, grant a security interest or otherwise dispose of same, without the prior written consent of the University of Waterloo. At the end of the Term as defined below, the City shall have the option to acquire the SOWC-LWF Equipment for the nominal price of \$1.00.

### **Intellectual Property**

13. Intellectual property rights for intellectual property conceived, produced, developed, reduced to practice or otherwise made by any approved platform user, its personnel or students in the course of carrying out any project at SOWC-LWF, will be in accordance with the respective policies and procedures of the user whose personnel created such intellectual property, applicable law, and any other applicable agreements.

### **Term**

14. The term of this Agreement shall commence on the effective date first set out above and shall terminate on March 31, 2025.

### **Dispute Resolution**

15. In the event of a controversy or dispute between the Parties arising out of or in connection with this Agreement or regarding the interpretation of the provisions thereof, the Party alleging a controversy or dispute (the "Disputing Party") must notify the other Party (the "Recipient Party") in writing of such dispute or controversy ("Dispute Notice") and specify the particulars of such dispute or controversy in the Dispute Notice.
16. Upon receipt of a Dispute Notice by the Recipient Party, the Recipient Party and the Disputing Party must mutually consult in good faith in an attempt to settle amicably and in the spirit of cooperation any such controversy or dispute.
17. If on the date which is fourteen (14) days after the Recipient Party's receipt of the Dispute Notice the Disputing Party and the Recipient Party have not amicably settled the matter(s) set out in the Dispute Notice then the matter(s) shall be referred to a single arbitrator whose decision shall be final and binding. If the Parties cannot agree on the arbitrator, either party may apply under Section 10 of the Ontario Arbitrations Act for the Court to select an Arbitrator.



## General

18. This Agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and of Canada applicable thereto.
19. Each Party must at all times be in compliance with all federal, provincial, territorial, municipal and other applicable laws, regulations, by-laws, rules, decrees and ordinances governing the parties and the Project, including without limitation, environmental legislation and any mitigation measures imposed by the Minister.
20. The Parties acknowledge that the provisions of this Agreement are intended to comply with Western's obligations under the IIA and that they will conduct themselves in good faith to give effect to that intention.
21. This Agreement constitutes the entire and sole Agreement between the Parties with respect to the issues and items covered by this Agreement, and supersedes all previous negotiations, communications and other agreements, whether written or oral, relating to it, unless they are incorporated by reference in this Agreement. There are no terms, covenants, representations, statements or conditions binding on the Parties with respect to said issues and items other than those contained in this Agreement.
22. The Parties acknowledge that Western is subject to the *Freedom of Information and Protection of Privacy Act* (Ontario) and London is subject to the *Municipal Freedom of Information and Protection of Privacy Act* (Ontario) and the Parties agree to cooperate with one another from time to time with respect to compliance with the statutes and any regulations passed thereunder.
23. This Agreement shall be binding upon and shall enure to the benefit of the Parties and their respective successors and assigns.
24. All notices or other communications under this Agreement shall be given in writing by personal delivery or by facsimile to the person named below:

To London:

City Clerk  
300 Dufferin St.  
P.O. Box 5035, London, Ontario N6A 4L9  
Facsimile: 519-661-4892

To Western:

Vice President (Research)  
Room 2107 Stevenson Hall  
The University of Western Ontario  
London, Ontario N6A 5B8

Facsimile: 519-661-3139

25. This Agreement and any other writing delivered in connection may be executed in any number of counterparts and any Party may execute any counterpart, each of which when executed and delivered will be deemed to be an original and all of such counterparts of this Agreement or such other writing taken together will be deemed to be one and the same instrument.

In witness whereof the Parties have executed this Agreement by their duly authorized signing officers.

**THE CORPORATION OF THE CITY OF LONDON**

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Per:

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Per:

**THE UNIVERSITY OF WESTERN ONTARIO**

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Per:

Schedule "A"  
Schedule "B"  
Schedule "C"

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**Schedule A**

To the Agreement with the University of Western Ontario

**Inter-Institutional Agreement (IIA)**

**This Inter-Institutional Agreement (the "Agreement") is made as of December 1, 2011**

between

University of Waterloo  
(the "Lead Institution")

and

McMaster University  
Ryerson University  
University of Guelph  
The University of Ontario Institute of Technology  
The Governing Council of the University of Toronto  
The University of Western Ontario  
Wilfrid Laurier University

(Individually referred to by name or as a "Participating Institution" and collectively as "Participating Institutions")

**Whereas** the Lead Institution, on behalf of the Participating Institutions, has made application (the "FedDev Application") to the Technology Development Program of the Federal Economic Development Agency for Southern Ontario ("FedDev") for funding for a project referred to as "Project No. 801680" and known as "Southern Ontario Water Consortium: A Development Platform for New Water Technologies" (SOWC);

**And Whereas** the Lead Institution and McMaster University, Ryerson University, University of Guelph, University of Ontario Institute of Technology, The Governing Council of the University of Toronto, and Wilfrid Laurier University together have made application (the "MRI Application") to the Ministry of Research and Innovation ("MRI") for funding for a project referred to as "Project No. 21616" and known as "Water Quality Research Platform in Urban and Urbanizing Watersheds";

**And Whereas** the FedDev and MRI applications are referred to as the ("Project");

**And Whereas** the Lead Institution and the Participating Institutions are hereafter collectively called the "Institutions", and individually an "Institution", as the context requires;

**And Whereas** the Lead Institution and the Participating Institutions are collectively referred to as the "Parties", and individually a "Party", as the context requires;

**And Whereas** the FedDev application and the MRI application have been conditionally approved by FedDev and MRI respectively;

**And Whereas** the Ministry of Economic Development and Innovation ("MEDI") has taken over responsibility for MRI;

**And Whereas** the Lead Institution is required to enter into award agreements with FedDev (the "FedDev Contribution Agreement (CA)"), attached as Schedule "A", and MEDI (the "MEDI Award Agreement"), attached as Schedule "B", with respect to the Project, collectively referred to as the "Funding Agreements";

**And Whereas** the Funding Agreements, among other things, define certain conditions for the use by the Lead Institution of FedDev funding and MEDI funding with respect to the eligible recipients and eligible expenses under the Funding Agreements, and applies to the Project;

**And Whereas** the Lead Institution is obligated by its execution of the Funding Agreements and this Agreement, and pursuant to the Funding Agreements and this Agreement will a) distribute certain of the grant funds received from FedDev and MEDI (the "Funds") to the Participating Institutions, or b) make purchases on behalf of the Participating Institutions, in accordance with the attached Schedule "C" (the "Approved Budget");

**And Whereas** the Lead Institution is responsible for the administration of the FedDev and MEDI awards;

**And Whereas** the Participating Institutions have been approved with a specific budget for acquisition of specific line items, in accordance with the attached Schedule "D" (the "Budget Distribution");

**And Whereas** the Participating Institutions have each made cash and committed to secure in-kind contributions ("financial contributions"), required as matching funds to the Project in accordance with the attached Schedule "E" (the "Contributions");

**Now therefore** in consideration of the mutual promises and covenants contained in this Agreement, the Participating Institutions agree as follows:

**1. Contacts**

**1.1 Participating Institutional Researcher Contact:** For the purposes of undertaking the Project and responsibilities for expenditures at each Participating Institution, each Participating Institution shall appoint an Institutional Researcher Contact, and the Participating Institutions shall provide the name and contact information for that person in Schedule "F" (the "Institutional Researcher Contact Agreement") attached to this Agreement, which may be updated from time to time. Should the Institutional Researcher Contact for the Participating Institution discontinue his or her role, the Participating Institution shall immediately notify Lead Institution and provide the name of a replacement Institutional Researcher Contact at the Participating Institution.

**1.2 Administrative Contact:** For the purposes of co-ordination of the Project and for reporting and other administrative tasks at each Participating Institution, each Participating Institution shall appoint an Administrative Contact, and the Participating Institutions shall provide the name and contact information for that person in Schedule "G" (the "Administrative Contacts") attached to this Agreement, which may be updated from time to time. Should the Administrative Contact for the Participating Institution discontinue his or her role, the Participating Institution shall immediately notify Lead Institution and provide the name of a replacement Administrative Contact at the Participating Institution.

**2. Financial Commitments:** Each Participating Institution warrants, represents, and certifies to Lead Institution and to the other Participating Institutions that:

- (a) The required eligible partner financial contribution from such Participating Institution and from its funding partners for the Project, as set out in Schedule "E" attached to this Agreement, has been committed and will remain committed for the Project, or be replaced by another eligible source;
- (b) Such financial contribution constitutes that Participating Institution's matching financial contribution to "eligible costs" as defined by the CFI Policy and Program Guide (as amended from time to time, the "Guide"), of the Project;
- (c) All FedDev and MEDI funds received by it for its portion of the Project will be used only to pay the pre-agreed FedDev and MEDI portions (as appropriate), of the Eligible Costs thereof, as set out in Schedules "A", "B", "C" and "D";
- (d) It will ensure that all necessary resources are available for the ongoing operation, insurance and maintenance of the infrastructure developed under its part of the Project for the Term of this Agreement.

**3. Funds Administration**

**3.1 FedDev Funds Administration:** The Lead Institution will administer all funds received from FedDev in accordance with FedDev rules, regulations and policies, as may be amended from time to time, as set

out in Schedule "A", and/or in other FedDev directives (collectively, "FedDev Policies") and the Participating Institutions agree to be bound by these terms and conditions and general other requirements imposed on the Lead Institution by FedDev or the board of directors of the SOWC;

**3.2 MEDI Funds Administration:** The Lead Institution will administer all funds received from MEDI in accordance with MEDI rules, regulations and policies, as may be amended from time to time, as set out in the Schedule "B" and/or in other MEDI directives (collectively, "MEDI Policies") and the Participating Institutions agree to be bound by these terms and conditions and general other requirements imposed on the Lead Institution by MEDI or the board of directors of the SOWC.

**3.3 Overall Funds Administration:** The Participating Institutions will use all FedDev and MEDI funds in accordance with the approved Expenditures, as set out in Schedule "C", and Schedule "D". No changes to or deviations from the Approved Budget are allowed without prior written approval of Lead Institution.

**3.4 Agreements Governing Other Funds received for the Project.**

**3.4.1** No Participating Institution will accept any other Funds or enter into an agreement with a person providing other Funds if a requirement of the acceptance of the other Funds or a requirement of such agreement is in conflict with the conditions of funding by the FedDev or MEDI, if applicable, or will result in that Participating Institution being restricted in the performance of its obligations in relation to the Project or the Project infrastructure.

**3.4.2** The Participating Institutions hereby confirm that for purposes of this Project, no other federal, provincial, municipal or local government financial assistance has been requested, approved, received or will be received.

**3.4.3** The Participating Institutions shall promptly inform the Lead Institution in writing in the event additional other government financial support has been requested or received for the purposes of the Project during the Term of this Agreement, and acknowledges and agrees that an adjustment to the amount of the FedDev or MEDI funds it receives and a request for repayment of part or all of the amounts paid to the Participating Institution may be made as a result thereof. The amount of repayment requested will constitute a debt due and will be recovered as such from the Recipient.

**3.4.4** In no instance will the total government funding toward the Eligible Costs of the project be allowed to exceed the amount approved in Schedule "D".

**3.5 Disbursement of FedDev and MEDI Funds to Participating Institutions:** Disbursement of FedDev and MEDI Funds are based on reimbursement of Eligible Project Costs. The Lead Institution shall disburse to the Participating Institutions all payments from FedDev and MEDI for the Project in an amount not to exceed those outlined in Schedule "D", no later than thirty (30) days of receipt of the funds from FedDev or MEDI. The Lead Institution shall not be liable for cost overruns incurred by a Participating Institution, or any shortfall or non-advance of funds from FedDev or MEDI, notwithstanding each Participating Institution's submission of claims for reimbursement. Any over-expenditure of the amount to which a Participating Institution is entitled shall be the sole responsibility of the Participating Institution causing the over-expenditure, and the Lead Institution shall not have any liability to the Participating Institution in that regard.

**3.6 Overpayment or non-entitlement:** Where, for any reason, a Participating Institution is not entitled to all or part of the Funds or the amount paid to Participating Institution exceeds the amount to which the Participating Institution is entitled, the Funds or the amount in excess, as the case may be, shall constitute a debt due to the Lead Institution and shall be recovered as such from the Participating Institution. The Participating Institution shall repay Lead Institution within thirty (30) days from the date of the Lead Institution's notice, the amount of the Funds disbursed or the amount of the overpayment, as the case may be, together with interest calculated in accordance with the Interest and Administrative Charges Regulations, in effect on the due date, from the date of the notice, until payment is received by the Lead Institution.

**3.7 Revenues from Assets:** The Parties acknowledge that their contributions to the Project are meant to accrue to the public benefit. The Participating Institutions will notify the Lead Institution in writing within sixty (60) days of the end of its fiscal year, if any asset to which Funds received from FedDev have been used in such a way that, in its fiscal year, revenues are generated from it which exceed its operating expenses, including maintenance and upgrades to the platform, and the Lead Institution may require the Participating Institutions to pay the Lead Institution immediately a portion of the excesses, in the same proportion as the Funds received from FedDev is to the total cost of the asset. This obligation will apply for the duration of the Term.

Notwithstanding the foregoing, Parties recognize that revenue generation and the disbursement of any funds generated through use of the platform will be conducted in accordance with policies established by the board of directors of the SOWC.

### **3.8 Pre Disbursement Conditions**

**3.8.1** The Lead Institution shall not be obligated to disburse any Funds or make any advance payment or to take, perform or fulfill any other action hereunder until the following conditions have been satisfied or provided for in a manner satisfactory to the Lead Institution:

- (a) Engineering and architectural designs outlining construction and installation activities for the London, Guelph and McMaster nodes and any other construction and installation activities for which the Lead Institution may request;
- (b) Each Participating Institution shall ensure that its portion of the Project is adequately insured and shall provide evidence of such. Each Participating Institution shall obtain general liability insurance and property damage insurance in amounts consistent with the scope and investments of the Project at each node and location where Project activities will take place, and will include no less than \$5,000,000 per occurrence, covering bodily injury, personal injury, death and property damage. The Parties agree to maintain such policies for the Term of this Agreement;
- (c) Each Participating Institution shall provide to the Lead Institution, in form and substance satisfactory to the Lead Institution, endorsements to the property damage insurance naming Her Majesty the Queen in Right of Canada (represented by the Minister responsible for FedDev) as "co-loss payee" and endorsements to the liability insurance naming Her Majesty the Queen in Right of Canada as "additional insured";
- (d) The Lead Institution is required to provide FedDev with information on the qualifications of the Operations Manager and the Associate Operations Manager, and it is agreed that FedDev will not contribute to any cost of the Project unless satisfied with the qualifications of the expertise engaged;
- (e) The Lead Institution must undertake an environmental assessment of the Project in accordance with the Canadian Environmental Assessment Act and FedDev determines that the Project is unlikely to result in any significant adverse environmental effects after the implementation of mitigation measures, if any; and
- (f) Aboriginal Consultation. FedDev must be satisfied that any legal duty to consult with, and where appropriate, to accommodate Aboriginal groups has been met.

## **4. Financial Record Keeping and Audits**

**4.1 Participating Institutions Internal Accounting Records:** Each Participating Institution directly receiving Funds from any source for Eligible Costs of the Project, as outlined in Schedule "C" shall set up and maintain separate internal accounting records with respect to these specific contributions and related Eligible Costs of the Project, as directed by Lead Institution. No more than monthly and no less than quarterly, in accordance with reporting obligations set forth in 5.1 and 5.5 below, such Participating Institution will record all such cost transactions (including associated in-kind contributions, if applicable) and certify that 100% of these costs are eligible for funding. Such records shall be prepared and retained in accordance with FedDev requirements, and or as applicable MEDI requirements.

**4.2 Audit Tracking System:** The records referenced in 4.1 shall include a verifiable audit tracking system for receipts and disbursement. To ensure that each of the FedDev or MEDI Funds contributions to the Project do not exceed their respective agreed proportions (or shares) of all Eligible Costs of the Project,

each Participating Institution agrees that this audit tracking system shall, at a minimum, apply to:

- (a) All contributions directly received and expenditures directly made by the Participating Institution that constitute eligible receipts and costs for its portion of the Project as defined in Schedules "D" and "E", respectively;
- (b) The FedDev contributions to the amounts referred to in (a) above;
- (c) The MEDI contributions to the amounts referred to in (a) above; and
- (d) The financial contributions of the Participating Institution and all of its funding partners for its portion of the Project.

**4.3 Records Retention Period:** Each Participating Institution agrees to maintain its supporting documentation relating to its part of the Project, forming part of its audit tracking system (including supporting documentation for all in-kind contributions) until March 31, 2025.

**4.4 Audit Obligations:** Each Participating Institution shall make available, upon reasonable notice, its records concerning its share of the Project to audit or examination conducted by auditors or other duly authorized representatives on behalf of the Lead Institution or FedDev (including the Auditor General of Canada) or, where appropriate, MEDI, as requested. In the event that FedDev or MEDI requests information from the Lead Institution concerning the Participating Institutions' share of the Project, the Participating Institution shall forthwith provide such information to the Lead Institution, after the Lead Institution has relayed that request to the Participating Institution.

## **5. Reporting Obligations**

**5.1 Financial Reporting Obligations:** In order to enable the Lead Institution to obtain payment from FedDev and MEDI under the respective Award Agreements, the Participating Institutions will provide to the Lead Institution satisfactory financial reports using the prescribed FedDev (see Schedule "H", the "FedDev Financial Reporting Schedule") and MEDI (see Schedule "I", the "MEDI Financial Reporting Schedule") reporting forms for its portion of the Project per 5.1, 5.2 and 5.5. The reports shall be submitted at least fifteen (15) days prior to the due date on which the Lead Institution is required to submit its financial reports to FedDev and/or MEDI. Such financial reports shall also explain any variances from the original budget approved by FedDev where such variances require the approval of FedDev, or MEDI where such variances require the approval of MEDI.

**5.2 Final Financial Reporting Obligations:** The financial reports to be provided by the Lead Institution at the end of the Project in accordance with the prescribed FedDev and MEDI forms shall be the final financial report, and for such purpose, each Participating Institution shall certify that:

- (a) Its portion of the Project has been completed;
- (b) Its matching funds have been received and spent;
- (c) FedDev's and MEDI's contribution (as applicable) for its portion of the Project does not exceed the agreed FedDev MEDI portions of Eligible Costs;
- (d) Resources are available for ongoing operation and maintenance of its portion of the infrastructure for the Term of this Agreement; and
- (e) All funds received were utilized for payment of Eligible Costs matched to the approved expenditures in the budget set out in Schedule "C" and Schedule "D".

**5.3** All Parties acknowledge and grant that the FedDev Minister and/or the Auditor General of Canada may have access to all accounts and records of the Project held by the Participating Institution (including to those of agents or third party contractors) and audit, or cause to have audited, such accounts and records wherever located as set out in 5.4. Each Party shall ensure that agents or third party contractors to the Project are obligated to abide by Article 5.3 and 5.4.

**5.4 Auditor General of Canada:** The Parties acknowledge that the Auditor General of Canada may, at the Auditor General's costs, after consultation with the Party, conduct an inquiry under the authority of Subsection 7.1(1) of the Auditor General Act in relation to any funding agreement (as defined in



Subsection 42(4) of the Financial Administration Act) with respect to the use of funds received. For the purposes of any such inquiry undertaken by the Auditor General, the Parties shall provide, upon request and in accordance with any timeframe provided by the Auditor General, to the Auditor General or anyone acting on behalf of the Auditor General: (a) all records held by the Participating Institution relating to this Agreement and the use of the Funds; (b) all records held by any agent or third party contractor relating to this Agreement and use of the Funds; and c) such further information and explanation as the Auditor General, or anyone acting on behalf of the Auditor General, may request relation to this Agreement and/or the Funds.

**5.5 Progress Reports:** In concert with submission of all financial reports and then annually for three years beyond the end of the MEDI eligible funds expenditures period noted in 7.1.2, the Participating Institutions shall provide the Lead Institution a written progress report of the Participating Institution's research conducted with the infrastructure developed or acquired under its portion of the Project, using the specified reporting form developed by FedDev and MEDI as applicable. The Participating Institutions shall, at all reasonable times during the Term of this Agreement, and upon reasonable notice provide the Lead Institution and FedDev or MEDI, or their representatives, access to the premises where the Project is being conducted in order to inspect the Participating Institution's portion of the Project.

**5.6 Lead Institution Reporting Obligations:** The Lead Institution shall provide financial reports and other reports to FedDev and MEDI in accordance with the Funding Agreements.

**5.7 Notification of Change:** The Participating Institutions agree to notify the Lead Institution, immediately in the event that:

- (a) The estimated costs to complete that Participating Institution's share of the Project exceed the anticipated total costs and expenses of that Participating Institution's share of the Project as set out in Schedule "D"; or;
- (b) Any of the financing or contributions for that Participating Institution's share of the Project to be contributed by that Participating Institution and/or that Participating Institution's funding partners, as set out in Schedule "E" becomes unavailable for any reason; or
- (c) A funding partner of that Participating Institution withdraws from the Project without having provided the full amount of its contribution as set out in Schedule "E"; or
- (d) The Participating Institution's portion of the Project cannot be completed for any reason; or
- (e) A budget change or amendment to the approved line items or nature of infrastructure being developed is anticipated;
- (f) There is any deviation in cash flow projection or in budget or costs or deviation from Schedule "C" or Schedule "D" for its portion of the Project; or
- (g) The Participating Institution abandons the Project.

Upon the occurrence of any of the enumerated events in this Section, the Lead Institution shall advise FedDev and, where appropriate, MEDI of such event.

## **6. Liability and Indemnity**

**6.1 Lead Institution shall not bear costs:** The Participating Institutions shall not knowingly or negligently perform or cause to be performed any action prohibited under this Agreement, or knowingly or negligently fail to perform any action required under this Agreement, that causes impairment of the Lead Institution's ability to perform its obligations pursuant to this Agreement, or the Funding Agreements. If the Lead Institution's ability is so impaired by a Participating Institution, the Participating Institution causing said impairment shall be responsible to the Lead Institution for payment of any damages or costs arising from the action or failure of or caused by the Participating Institution.

**6.2 Liability:** Provided that it has carried out its duties and exercised its authority under this Agreement in good faith and with reasonable care, no Party shall be responsible or liable to any other Party for any matters which arise during the course of the Project or during the Term of this Agreement which are beyond the reasonable control of the Party, and no Party, its directors, officers, employees, appointees, students, trainees and agents (the "first Party") shall be liable to any other Party for any losses, damages

or costs incurred by the other Party arising out of the Project except to the extent caused by the gross negligence or willful misconduct of the first Party. For the avoidance of doubt, each Party assumes its own liability for any and all damages, injuries, claims, demands, suits, actions, liabilities, costs and expenses on account of injuries (including death) to persons participating in the Project or damage to real property or tangible personal property which may arise as a result of its activities under the Project. Except as provided in this Section 6.2, in no event shall any Party be liable to another Party for any special, indirect or consequential damages arising from or out of the Project or this Agreement.

**6.3 Liability: Lead Institution:** In its capacity as Lead Institution, the Lead Institution shall in no event be liable for any special, indirect or consequential damages to the Participating Institutions arising from or out of the Project or this Agreement, except to the extent caused by the Lead Institution's gross negligence or willful misconduct.

## **7. Miscellaneous**

### **7.1 Eligible Expenditures**

**7.1.1:** Eligible expenditures for FedDev funds, including matching contributions noted in Schedule "E" must be incurred between March 23, 2011 and March 31, 2014.

**7.1.2:** Eligible expenditures for MEDI funds, including matching contributions noted in Schedule "E" must be incurred between January 1, 2007 and December 31, 2015.

### **7.2 Ownership and Right of Use**

**7.2.1** A Participating Institution shall retain title to, and ownership of all assets acquired by them and /or located at its site for the duration of the Term of this Agreement and shall not sell, assign, transfer, encumber, pledge, grant a security interest or otherwise dispose of same, without the prior written consent of the Lead Institution. As a condition of such consent, the Lead Institution may require the Participating Institution to repay the Lead Institution the whole or any part of the Funds paid to the Participating Institution. Any written request for consent to dispose of assets will be responded to within 160 calendar days from receipt by the Lead Institution. If Lead Institution does not respond within the allocated timeframe, consent to dispose will have been deemed given by the Lead Institution.

**7.2.2** Participating Institutions acknowledge that the SOWC Board of Directors have a responsibility to ratify protocols regarding access to Project Assets, establishment of user fee schedules regarding generation of funds for the Platform, and related issues, as outlined in Schedule "J", ("Management and Governance"), such that requests will be equitably adjudicated with a view to the best interests of the applicant, the host institution and the broader aims of the SOWC. Requests for access will be made through the Platform Management Committee.

### **7.3 Confidentiality**

**7.3.1** Confidential Information means the confidential or proprietary business or technical information of a Party or any third party that is identified in writing as confidential at the time of disclosure or identified orally as such at the time of disclosure and minuted and confirmed in writing within fourteen (14) days of the oral identification.

The parties recognize that one of the goals of the SOWC is to create an open data environment that encourages the sharing of data generated on the platform. At the same time the parties recognize the legitimate rights of users to maintain their intellectual property. Board policy will provide for mechanisms to facilitate exchange while respecting rights to IP.

**7.3.2** Each Party agrees that Confidential Information it receives from another Party or any third party will be safeguarded and disclosed only to persons within the receiving Party with a need to know such Confidential Information for the purpose of carrying out work under this Agreement. Confidential Information shall not be used for any purpose except that for which it was initially provided to the receiving Party. Each Party will take such steps to protect Confidential Information it receives from another Party or any third party as it would to protect its own Confidential Information

**7.3.3** The obligation to keep Confidential Information confidential will not apply to information which:

- (a) Is already known at the time of disclosure to the Party to whom it is disclosed and that Party can prove by written records that it is already known;
- (b) Is or becomes part of the public domain without material breach of this Agreement by the Party seeking to rely on this exclusion;
- (c) Is obtained from third parties which impose no related confidentiality obligations on the disclosing Party;
- (d) Is authorized for release by the disclosing Party or third party;
- (e) Is demonstrated to have been developed independently of the Confidential Information received from the disclosing Party or third party; or,
- (f) Is required to be disclosed by law or order of a court, governmental tribunal or governmental agency, but the Party subject to such requirement will promptly notify the disclosing Party or third party and give the disclosing Party or third party a reasonable opportunity to seek a confidentiality order or the like.

**7.3.4** Each Party agrees that these obligations of confidentiality will continue from the time of disclosure of Confidential Information until such Confidential Information becomes part of the public domain. Upon expiration or termination of this Agreement, each Party that has received Confidential Information during the term of this Agreement will, upon written request, forthwith return such Confidential Information to the disclosing Party or third party and will not retain copies or transcripts thereof for any purpose whatsoever.

**7.3.5** All obligations of confidentiality herein shall survive for five (5) years after expiration or termination of this Agreement.

#### **7.4 Intellectual Property**

**7.4.1** Intellectual Property includes, without limitation, all designs, specification, software, data, drawings, plans, reports, patterns, models, prototypes, demonstration units, practices, inventions, methods and related technology, processes or other information conceived, produced, developed or reduced to practice by a Party, and all rights therein, including, without limitation, patents, copyrights, industrial designs, trade-marks and any registrations or applications for the same and all other rights if intellectual property therein, including any rights which arise from the above items being treated by the Parties as trade secrets or confidential information.

**7.4.2** "Background Intellectual Property" means any and all Intellectual Property that is not Project Intellectual Property. Each Party grants a royalty-free, non-exclusive license to each other Party to use, copy and modify its Background Intellectual Property solely as necessary to fulfill its obligations in respect of the Project under and in accordance with this Agreement. Except as provided for in this paragraph 7.4.2, each Party agrees that Background Intellectual Property of another Party shall remain the exclusive property of that Party and that it will not acquire any rights or interest in another Party's Background Intellectual Property. Each Party agrees that pursuant to this Agreement it does not acquire any license, rights or interest in the Background Intellectual Property of any third party.

**7.4.3** "Project Intellectual Property" means any Intellectual Property conceived, produced, developed, reduced to practice or otherwise made by a Party's personnel or its students in the course of carrying out the Project.

**7.4.4** Rights in any Project Intellectual Property Rights, if any, will be determined in accordance with the respective policies and procedures of the Party or Parties whose personnel created such intellectual property, applicable law, and any other agreements between the Parties.

**7.4.5** Notwithstanding who has title to the Project Intellectual Property, a Party shall not grant an exclusive and irrevocable license or sublicense of Project Intellectual Property to any other party.

**7.4.6** Each Party shall ensure, in its reasonable discretion, that appropriate steps are taken to protect Project Intellectual Property conceived, produced, developed, reduced to practice or otherwise made by its personnel and students and shall retain ownership of the Project Intellectual Property for the Term of this Agreement.

## **7.5 Publication**

**7.5.1** In accordance with their respective policies, the Parties require that research results be published. Accordingly, the Parties shall be entitled to publish or disclose publicly research results, data or technical information arising out of the Project or relating to or including Project Intellectual Property (the "Research Results") generated solely by their respective personnel or students without restriction provided such publication or public disclosure does not contain Confidential Information of another Party or any third party, or commercializable subject matter. Research Results generated by personnel or students of two or more Parties may be published by mutual agreement of those Parties.

**7.5.2** In the event a publication or public disclosure of Research Results contains commercializable subject matter, such publication or public disclosure shall be delayed for a period sufficient to allow for the taking of appropriate steps to protect such commercializable subject matter; such delay shall be in accordance with the respective policies of the Parties, including those relating to student theses.

**7.6 Participating Institutions Bound by Award Agreements:** In accepting funding for the Project, Participating Institutions accept and agree to be bound by the same terms and conditions of the Funding Agreements applicable to the Lead Institution. In the event of a conflict between the Funding Agreements and this Agreement, the Funding Agreements will take precedence.

## **7.7 Communications**

**7.7.1** All communication with FedDev concerning the Project shall be made through the Lead Institution.

**7.7.2** All communications with MEDI concerning the Project shall be made through the Lead Institution.

**7.7.3** Any communications issued by Participating Institutions must take into account Clause 9 "Federal Visibility Requirements" of the CA and Article 42 "Communications" of the MEDI Agreement.

**7.8 Dispute Resolution:** In the event of a controversy or dispute between or among any Parties arising out of or in connection with this Agreement or regarding the interpretation of the provisions thereof, the following shall apply:

- (a) The Party alleging a controversy or dispute (the "Disputing Party") must notify the other Party (the "Recipient Party"), with a copy to the Lead Institution, in writing of such dispute or controversy ("Dispute Notice") and specify the particulars of such controversy or dispute in the Dispute Notice;
- (b) Upon receipt of a Dispute Notice by the Recipient Party, the Recipient Party and the Disputing Party must mutually consult in good faith in an attempt to settle amicably and in the spirit of cooperation any such controversy or dispute. If the matter cannot be settled amicably between the Parties, the controversy or dispute shall be referred to the relevant SOWC Theme Operations Committee ("TOC") which shall work with a view to taking appropriate action to resolve the controversy or dispute and avoid recurrence. Where the controversy or dispute remains unresolved within fourteen (14) days of being referred to the relevant TOC, the controversy or dispute shall be referred to the SOWC Platform Management Committee ("PMC") which shall work with a view of taking appropriate action to resolve the controversy or dispute and avoid recurrence. Where the controversy or dispute remains unresolved within fourteen (14) days after referral to the PMC, the controversy or dispute shall be referred to the SOWC Board of Directors which shall work with a view of taking appropriate action to resolve the controversy or dispute and avoid recurrence; and
- (c) If on the date which is fourteen (14) days after referral to the SOWC Board of Directors then the Disputing Party and the Recipient Party must settle such matters in compliance with the procedures set out in Schedule "K" ("Dispute Resolutions Procedures") attached to this Agreement.

For the avoidance of doubt, the Parties acknowledge and agree that the provisions of clause 14 of this Agreement apply to a Dispute Notice issued pursuant to this clause 7.8.

**7.9 Relationship Between the Parties:** The Parties are independent Parties and nothing in this Agreement constitutes any Party as the agent, employer, principal or partner of or joint venturer with the other Parties. No Party has any authority to assume or create any obligation or liability, either express or implied, on behalf of another Party hereto.

**7.10 Agree to Acknowledge and Participate:** Participating Institutions agree to acknowledge their membership in SOWC and funding received from FedDev and MEDI in all relevant publications and other communications. Participating Institutions also agree to accommodate any reasonable request of FedDev, MEDI or SOWC regarding promotional initiatives, including but not limited to coordination of public announcements, media events outlining Project achievements or initiatives, public and media events, or other activities that showcase the results or expected results of the Project, including any media public event upon the completion of the Project. This includes providing access to work sites. Unless agreed to in advance, no event or communication will take place without at least fifteen (15) business days notice to the Participating Institution(s), unless otherwise agreed to in writing. Participating Institutions also agree to prominently display at any Project site in a manner prescribed by FedDev, MEDI or SOWC as appropriate, promotional material or signage which may be provided by FedDev, MEDI or SOWC, at the Participating Institution's expense, communicating the nature of the funded activities and/or involvement of FedDev, MEDI and SOWC.

**7.11 Tendering Policies:** Each Party covenants and agree that it will adhere to its own tendering and acquisition policies for the purchase of assets and services. In the event that any Party proposes to amend its tendering and acquisition policies, it shall inform the Lead Institution, who shall inform FedDev of the proposed amendment no less than thirty (30) calendar days prior to the amendment coming into force in which case FedDev may elect to continue to require the Parties to follow the current policies or follow the new amended policies for the purposes of the FedDev portion of the project.

**7.12 Approval, Permits and Access**

**7.12.1** Each of the University of Guelph and The University of Western Ontario represents and confirms that (a): all relevant governmental or municipal permits, approvals, consents, permissions to engage in building activities on wastewater sites have been obtained or will be obtained prior to proceeding with any Project-related activity and (b): the necessary access to the Project municipal wastewater facility sites located in the cities of Guelph and London respectively, for the purpose of achieving the objectives of the Project, has been secured, or will be secured, for the lesser of: i) the period during which assets acquired with project Funds remain at the above sites, or ii) the Term of this Agreement.

**7.12.2** The University of Guelph and The University of Western Ontario also confirm that such access has been granted unconditionally for the Lead Institution and all other Participating Institutions during the Term of the Project

**7.12.3** The University of Guelph and The University of Western Ontario also confirm that:

- a) They will inform FedDev, through the Lead Institution, immediately if such permissions, approvals, consents or permits are withdrawn or amended; and
- b) The relevant municipal authorities have agreed that the ownership of all assets paid for with project Funds, in whole or in part, whether affixed to or temporarily placed on municipal property, must remain the property of the Participating Institution(s), unless disposal or transfer of ownership of that asset has been approved in advance and is carried out in accordance with disposal procedures noted in 7.2.1.

**7.13 Collaboration and Cooperation**

**7.13.1** The Parties acknowledge and agree that the mission of the Project is to establish a strong and sustainable consortium of public, private, institutional, and not-for-profit partners who will proactively collaborate to:

- a) Accelerate the discovery, innovation, development and commercialization of water-related

- management practices, technologies, systems, services, products and processes;
- b) Share infrastructure, information, and ideas;
  - c) Attract domestic and international investment to SOWC and its constituent partners;
  - d) Create high value jobs;
  - e) Attract the best and the brightest water-related talent from around the world;
  - f) Train and develop the next generation of water researchers, managers, and entrepreneurs;
  - g) Assist in branding SOWC as one of the foremost water research collaborations in the world; and
  - h) Develop a new model of collaboration and cooperation in furtherance of shared SOWC objectives.

**7.13.2** The Parties endorse the Project foregoing mission and agree to support, promote, and actively participate in the activities and objectives described in 7.13.1. In particular, but not restricting the generality of the foregoing, the Parties agree to:

- a) Actively participate in the governance and operations of SOWC and abide by the decisions, protocols, regulations, and guidelines promulgated by the SOWC board of directors and other duly authorized SOWC decision-makers and decision-making bodies from time to time;
- b) Share access to Project equipment and facilities in accordance with the direction of the SOWC board of directors subject to Section 7.2.2 of this Agreement and the Parties' respective policies and obligations relating to health, safety, security and confidentiality;
- c) Share access to non-proprietary information and data in accordance with the direction of the SOWC board of directors;
- d) Assist the branding of SOWC by supporting SOWC promotional measures and marketing activities;
- e) Provide all reasonable information and assistance to enable the Lead Institution to comply with the terms and conditions of the FedDev Contribution Agreement and the MEDI Award Agreement as applicable on behalf of the Participating Institutions.

**7.14** All records relating to the Project must be maintained in a location in Southern Ontario.

**7.15 Commitments of the Parties:** Each Party agrees to participate in carrying out the Project in accordance with the Terms and Conditions of the Funding Agreements and this Agreement, adhere to the directives of the SOWC Board of Directors, and to act with due professionalism and diligence in order to facilitate the progress and achievement of the overall objectives of the Project.

## **8. Duration of the Agreement**

**8.1** FedDev funds may be used to support eligible project expenses incurred from March 23, 2011 to March 31, 2014.

**8.2** MEDI (Ontario) funds may be used to support eligible project expenses incurred from January 1, 2007 to December 31, 2015.

**8.3 Term:** The Term of this Agreement shall commence on January 1, 2007 and end on March 31, 2025. This Term comprises the FedDev and MEDI Funds eligibility period during which their respective eligible expenditures may be incurred, and a Control Period stipulated in the FedDev Agreement, which is defined as the period of 11 years from the end of the FedDev funds eligibility period to March 31, 2025, for retention of documentation.

## **9. Termination**

**9.1 Termination by Lead or Participating Institutions:** Except as otherwise provided herein, no Party may terminate this Agreement without the written agreement of the other Parties.

**9.2 Termination of FedDev Award Agreement:** In the event of termination of the FedDev Contribution Agreement, the Lead Institution may terminate this Agreement on written notice to the Participating Institutions given as soon as practicable following receipt of FedDev's notice of termination.

**9.3 Termination of MEDI Award Agreement:** In the event of termination of the MEDI Award Agreement, the Lead Institution may terminate this Agreement on written notice to the Participating Institutions given as soon as practicable following receipt of MEDI's notice of termination.

**10. Default and Remedies**

**10.1 Event of Default:** An Event of Default shall be deemed to have occurred if:

- (a) The Participating Institutions have failed or neglected to pay the Lead Institution any amount due in accordance with this Agreement;
- (b) The Project is not completed to the satisfaction of FedDev, MEDI or SOWC;
- (c) Any Party makes a materially false or misleading statement concerning support by FedDev or MEDI in any internal and/or public communication, other than in good faith;
- (d) Any Party becomes bankrupt or insolvent, goes into receivership, or takes the benefit of any statute from time to time in force relating to bankrupt or insolvent debtors;
- (e) An order is made or any Party has passed a resolution for the winding up of the Party, or the Party is dissolved;
- (f) Any Party has, in the opinion of FedDev or MEDI, ceased to carry on business or has sold all or substantially all its assets;
- (g) The Project is carried out at locations other than those noted in Annex 1 of Schedule "A" without the prior written authority of FedDev, MEDI, and SOWC;
- (h) Any Party has submitted false or misleading information, or has made a false or misleading representation to the Lead Institution, FedDev, MEDI or in this Agreement or the Funding Agreements;
- (i) Any Party has not, in the opinion of FedDev, MEDI or SOWC, met or satisfied a term or condition of this Agreement or the Funding Agreements;
- (j) Any Party is not eligible or is otherwise not entitled to the Funds; or
- (k) Any Party has not complied with the monitoring, audit and evaluation requirements specified in this Agreement or the Funding Agreements.

**10.2 Remedies:** If an Event of Default has occurred, the Lead Institution may immediately exercise any one or more of the following remedies, in addition to any remedy available at law:

- (a) Terminate any obligation by the Lead Institution to make any payment under this Agreement, including any obligation to pay an amount owing prior to such termination;
- (b) Suspend any obligation by the Lead Institution to make any payment under this Agreement, including any obligation to pay an amount owing prior to such suspension; and
- (c) Require the Participating Institutions to repay forthwith to the Lead Institution all or part of the Funds it has received, and that amount is a debt due to the Lead Institution and may be recovered as such.

**11. Binding Terms and Conditions:** Without affecting in any manner the forgoing provisions of this Agreement, each Participating Institution accepts and agrees to be bound by the terms and conditions of the relevant Funding Agreements, FedDev and MEDI Policies and the following documents for the Project:

- (a) FedDev Contribution Agreement (CA) (Schedule "A");
- (b) MEDI Award Agreement (Schedule "B");
- (c) Approved Budget (Schedule "C");
- (d) Budget Distribution (Schedule "D");
- (e) Contributions (Schedule "E");
- (f) Institutional Researcher Contact Agreement (Schedule "F");
- (g) Administrative Contacts (Schedule "G");
- (h) FedDev Attestation Form, Claim Statement Form, In-Kind Contribution Confirmation (Schedule "H");
- (i) MEDI Attestation Form (Schedule "I");
- (j) Management and Governance (Schedule "J");
- (k) Dispute Resolution Procedures (Schedule "K");

All of which are incorporated by reference and applicable hereto.

**12. Amendments:** This Agreement may only be amended by a document in writing signed by the authorized representative of each Party.

**13. Governing Law**

**13.1** This Agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and of Canada applicable thereto.

**13.2** Each Party must at all times be in compliance with all federal, provincial, territorial, municipal and other applicable laws, regulations, by-laws, rules, decrees and ordinances governing the parties and the Project, including without limitation, environmental legislation and any mitigation measures imposed by the Minister.

**14. Notices:** All reports, communications and notices to be made pursuant to this Agreement shall be validly and effectively made if made in writing and delivered by first class mail, postage prepaid, or by facsimile, or by personal or courier delivery, and addressed to the Party to whom it is intended, at its address as set out below. For the purposes of delivering and receiving notices pursuant to this Agreement, the Participating Institutions shall appoint a contact person, as set out in "Schedule "G".

**15. Entire Agreement:** This Agreement, including its Schedules and attached hereto, constitutes the entire and sole Agreement between the Parties with respect to the issues and items covered by this Agreement, and supersedes all previous negotiations, communications and other agreements, whether written or oral, relating to it, unless they are incorporated by reference in this Agreement. There are no terms, covenants, representations, statements or conditions binding on the Parties with respect to said issues and items other than those contained in this Agreement.

**16. Binding Agreement:** This Agreement shall be binding upon and shall enure to the benefit of the Parties and their respective successors and assigns.

**17. Force Majeure:** The failure of any of the Parties at any time to require performance by another Party of any provision herein shall in no way affect its right thereafter to enforce such provision or to seek damages for the breach thereof. It is agreed between the Parties that they shall not be held responsible to the other Parties for damages caused by delay or failure to perform undertakings hereunder when such delay or failure is due to fires, strikes, lockouts, floods, acts of God, or the Queen's enemies, lawful acts of public authorities, orders of government, war, warlike operations, riot, insurrection, public health emergencies, quarantines or delays or defaults caused by common carriers, which cannot be reasonably be foreseen or provided against.

**18. Freedom of Information:** The Parties acknowledge that the Lead and Participating Institutions are educational institutions to which the *Freedom of Information and Protection of Privacy Act* (Ontario) applies and the Parties agree to cooperate with one another from time to time with respect to compliance with the statute and any regulations passed thereunder.

**19. Counterparts:** This Agreement and any other writing delivered in connection may be executed in any number of counterparts and any Party may execute any counterpart, each of which when executed and delivered will be deemed to be an original and all of such counterparts of this Agreement or such other writing taken together will be deemed to be one and the same instrument.

**20. English Language:** The Parties hereto have expressly agreed that this Agreement be drawn up in English only. Les parties aux présentes ont expressément requis que la présente entente soit rédigée en anglais.

In witness whereof the Parties have executed this Agreement.



**FOR UNIVERSITY OF WATERLOO:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: April 17/12

*for* D. George Dixon, Vice-President, University Research

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: April 23, 2012

Feridun Hamdullahpur, President & Vice-Chancellor

**FOR MCMASTER UNIVERSITY:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Patrick Deane, President & Vice Chancellor

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Mo Elbestawi, Vice-President, Research and International Affairs

**FOR RYERSON UNIVERSITY:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Wendy Cukier MA, MBA, PhD, DU (Hon), LLD (Hon) MSC  
Vice President, Research and Innovation

**FOR UNIVERSITY OF GUELPH:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Richard D. Moccia, Acting Associate Vice-President, Research Services

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Dave Reinhart, Director, Research Financial Services

**FOR UNIVERSITY OF WATERLOO:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

D. George Dixon, Vice-President, University Research

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Feridun Hamdullahpur, President & Vice-Chancellor

**FOR MCMASTER UNIVERSITY:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: 23 April 2012

Patrick Deane, President & Vice Chancellor

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: April 19/2012

Mo Elbestawi, Vice-President, Research and International Affairs

**FOR RYERSON UNIVERSITY:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Wendy Cukier MA, MBA, PhD, DU (Hon), LLD (Hon) MSC  
Vice President, Research and Innovation

**FOR UNIVERSITY OF GUELPH:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Richard D. Moccia, Acting Associate Vice-President, Research Services

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Dave Reinhart, Director, Research Financial Services

**FOR UNIVERSITY OF WATERLOO:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

D. George Dixon, Vice-President, University Research

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Feridun Hamdullahpur, President & Vice-Chancellor

**FOR MCMASTER UNIVERSITY:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Patrick Deane, President & Vice Chancellor

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Mo Elbestawi, Vice-President, Research and International Affairs

**FOR RYERSON UNIVERSITY:**

Signature:  \_\_\_\_\_  
I have the authority to bind the University.

Date: MAY 30<sup>th</sup> / 2012

Wendy Cukier MA, MBA, PhD, DU (Hon), LLD (Hon) MSC  
Vice President, Research and Innovation

**FOR UNIVERSITY OF GUELPH:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Richard D. Moccia, Acting Associate Vice-President, Research Services

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Dave Reinhart, Director, Research Financial Services

**FOR UNIVERSITY OF WATERLOO:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

D. George Dixon, Vice-President, University Research

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Feridun Hamdullahpur, President & Vice-Chancellor

**FOR MCMASTER UNIVERSITY:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Patrick Deane, President & Vice Chancellor

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Mo Elbestawi, Vice-President, Research and International Affairs

**FOR RYERSON UNIVERSITY:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Wendy Cukier MA, MBA, PhD, DU (Hon), LLD (Hon) MSC  
Vice President, Research and Innovation

Kevin R. Hall  
Vice-President (Research)  
University of Guelph

**FOR UNIVERSITY OF GUELPH:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: May 17, 2012

~~Richard D. Moccia, Acting Associate Vice-President, Research Services~~

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: May 17/12

Dave Reinhart, Director, Research Financial Services

**FOR UNIVERSITY OF ONTARIO INSTITUTE OF TECHNOLOGY:**

Signature: Mike  
I have the authority to bind the University.

Date: April 16 2012

Dr. Michael Owen, Associate Provost Research

Signature: Richard Marceau  
I have the authority to bind the University.

Date: 2012-04-19

Dr. Richard Marceau, Provost

**FOR THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Lino DeFacendis, Director, Partnerships

**FOR THE UNIVERSITY OF WESTERN ONTARIO:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Dan Sinai, (Acting) Associate Vice-President, Research

**FOR WILFRID LAURIER UNIVERSITY:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Abby A. Goodrum, Vice-President: Research

Reviewed

15

APR 16 2012



Office of Research Services

**FOR UNIVERSITY OF ONTARIO INSTITUTE OF TECHNOLOGY:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Dr. Michael Owen, Associate Provost Research

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Dr. Richard Marceau, Provost

**FOR THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: 25/4/12

Lino DeFacendis, Director, Partnerships

R. Paul Young, PhD, FRSC  
Vice-President, Research

**FOR THE UNIVERSITY OF WESTERN ONTARIO:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Dan Sinai, (Acting) Associate Vice-President, Research

**FOR WILFRID LAURIER UNIVERSITY:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Abby A. Goodrum, Vice-President: Research

**FOR UNIVERSITY OF ONTARIO INSTITUTE OF TECHNOLOGY:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Dr. Michael Owen, Associate Provost Research

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Dr. Richard Marceau, Provost

**FOR THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Lino DeFacendis, Director, Partnerships

**FOR THE UNIVERSITY OF WESTERN ONTARIO:**

Signature:     D. Sinai      
I have the authority to bind the University.

Date: Apr 18/12  
CF

Dan Sinai, (Acting) Associate Vice-President, Research

**FOR WILFRID LAURIER UNIVERSITY:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Abby A. Goodrum, Vice-President: Research

**FOR UNIVERSITY OF ONTARIO INSTITUTE OF TECHNOLOGY:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Dr. Michael Owen, Associate Provost Research

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Dr. Richard Marceau, Provost

**FOR THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Lino DeFacendis, Director, Partnerships

**FOR THE UNIVERSITY OF WESTERN ONTARIO:**

Signature: \_\_\_\_\_  
I have the authority to bind the University.

Date: \_\_\_\_\_

Dan Sinai, (Acting) Associate Vice-President, Research

**FOR WILFRID LAURIER UNIVERSITY:**

Signature: Abby A. Goodrum  
I have the authority to bind the University.

Date: 04/27/12

Abby A. Goodrum, Vice-President: Research



**Schedule "A"**  
**FedDev Contribution Agreement**

**Schedule "B"**  
**MEDI Award Agreement**

**Schedule "C"**  
**Approved Budget**

**Schedule "D"**  
**Budget Distribution**

**Schedule "E"**  
**Contributions**

<b>University Partners</b>	<b>Cash</b>
Wilfrid Laurier University	\$ 45,442
McMaster University	\$ 34,093
Ryerson University	\$ 34,093
University of Guelph	\$ 35,001
University of Toronto	\$147,259
University of Ontario Institute of Technology	\$ 3,798
University of Waterloo	\$234,381

**Schedule "F"**  
**Institutional Researcher Contact Agreement**

**WHEREAS** the University of Waterloo, McMaster University, Ryerson University, University of Guelph, University of Ontario Institute of Technology, University of Toronto, The University of Western Ontario, and Wilfrid Laurier University are Parties to an Inter-Institutional Agreement (the "IIA") to which this Institutional Researcher Contact Agreement is appended, under which FedDev and MEDI will provide funding to Lead Institution to carry out a Project in which I am an Institutional Researcher Contact;

**AND WHEREAS** I will be involved in the Project;

**NOW THEREFORE**, in consideration of information and facilities made available to me in connection with my work in relation to the Project and other valuable consideration, I agree that:

1. **Defined Terms.** All terms denoted with initial capital letters and not defined herein will have the meanings ascribed to those terms in the IIA and/or the FedDev Contribution Agreement or the MEDI Award Agreement to which this Institutional Researcher Contact Agreement is appended.

2. **Reasonable Efforts.** I will use all reasonable efforts to achieve the objectives and deliverables defined in the Project in Schedules 'A' and 'B'. I will use all reasonable efforts to use the Funds as stated for the purposes outlined in the IIA and Schedule "C" and Schedule "D" to the IIA and will notify Lead Institution of any proposed changes to the use of the Funds.

3. **Reporting.** I will use all reasonable efforts to provide information necessary for the purposes of reporting as set out in the IIA.

4. **Intellectual Property.** I will comply with the intellectual property conditions that are set out in the IIA.

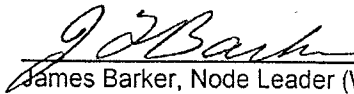
5. **Publications.** I will comply with all publication conditions that are set out in the IIA.

6. **Acknowledgement.** I have had an opportunity to review the applicable terms of the IIA, and having read this Institutional Researcher Contact Agreement and understood it, hereby agree to its terms.

By signing below, I indicate my acceptance of these terms.

**FOR UNIVERSITY OF WATERLOO:**

Signature:

  
James Barker, Node Leader (Watersheds)

Date: 16/04/2012

**FOR MCMASTER UNIVERSITY:**

Signature:

\_\_\_\_\_  
Jamal Deen, Node Leader (Sensors)

Date: \_\_\_\_\_

**FOR RYERSON UNIVERSITY:**

Signature:

\_\_\_\_\_  
Dr. Lynda McCarthy, Professor, Chemistry and Biology

Date: \_\_\_\_\_

**Schedule "F"**  
**Institutional Researcher Contact Agreement**

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By signing below, I indicate my acceptance of these terms.

**FOR UNIVERSITY OF WATERLOO:**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
James Barker, Node Leader (Watersheds)

**FOR MCMASTER UNIVERSITY:**

Signature: Jamal Deen Date: 15 April 2012  
Jamal Deen, Node Leader (Sensors)

**FOR RYERSON UNIVERSITY:**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Dr. Lynda McCarthy, Professor, Chemistry and Biology

**Schedule "F"**  
**Institutional Researcher Contact Agreement**

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**FOR UNIVERSITY OF WATERLOO:**

Signature: \_\_\_\_\_  
James Barker, Node Leader (Watersheds)

Date: \_\_\_\_\_

**FOR MCMASTER UNIVERSITY:**

Signature: \_\_\_\_\_  
Jamal Deen, Node Leader (Sensors)

Date: \_\_\_\_\_

**FOR RYERSON UNIVERSITY:**

Signature: \_\_\_\_\_  
Dr. Lynda McCarthy, Professor, Chemistry and Biology

Date: May 9 '12

**FOR UNIVERSITY OF GUELPH:**

Signature: Edward McBean  
Ed McBean, Professor

Date: May 14/12

**FOR UNIVERSITY OF ONTARIO INSTITUTE OF TECHNOLOGY:**

Signature: \_\_\_\_\_  
Dr. Doug Holdway,  
Faculty of Science, UOIT

Date: \_\_\_\_\_

**FOR THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO:**

Signature: \_\_\_\_\_  
Dr. Susan Andrews, Professor  
Department of Civil Engineering  
Node Leader, Drinking Water

Date: \_\_\_\_\_

**FOR THE UNIVERSITY OF WESTERN ONTARIO:**

Signature: \_\_\_\_\_  
Dr. George Nakhla, Professor

Date: \_\_\_\_\_

**FOR WILFRID LAURIER UNIVERSITY:**

Signature: \_\_\_\_\_  
Deborah MacLatchy, Node Leader (Ecotoxicology)

Date: \_\_\_\_\_

**FOR UNIVERSITY OF GUELPH:**

Signature: \_\_\_\_\_  
Ed McBean, Professor

Date: \_\_\_\_\_

**FOR UNIVERSITY OF ONTARIO INSTITUTE OF TECHNOLOGY:**

Signature:   
Dr. Doug Holdway, Faculty of Science, UOIT

Date: 16 April, 2012

**FOR THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO:**

Signature: \_\_\_\_\_  
Dr. Susan Andrews, Professor  
Department of Civil Engineering  
Node Leader, Drinking Water

Date: \_\_\_\_\_

**FOR THE UNIVERSITY OF WESTERN ONTARIO:**

Signature: \_\_\_\_\_  
Dr. George Nakhla, Professor

Date: \_\_\_\_\_

**FOR WILFRID LAURIER UNIVERSITY:**

Signature: \_\_\_\_\_  
Deborah MacLatchy, Node Leader (Ecotoxicology)

Date: \_\_\_\_\_

**FOR UNIVERSITY OF GUELPH:**

Signature: \_\_\_\_\_  
Ed McBean, Professor

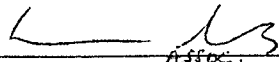
Date: \_\_\_\_\_

**FOR UNIVERSITY OF ONTARIO INSTITUTE OF TECHNOLOGY:**

Signature: \_\_\_\_\_  
Dr. Doug Holdway, Faculty of Science, UOIT

Date: \_\_\_\_\_

**FOR THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO:**

Signature:  \_\_\_\_\_  
Dr. Susan Andrews, Professor  
Department of Civil Engineering  
Node Leader, Drinking Water

Date: Apr 15/12

**FOR THE UNIVERSITY OF WESTERN ONTARIO:**

Signature: \_\_\_\_\_  
Dr. George Nakhla, Professor

Date: \_\_\_\_\_

**FOR WILFRID LAURIER UNIVERSITY:**

Signature: \_\_\_\_\_  
Deborah MacLatchy, Node Leader (Ecotoxicology)

Date: \_\_\_\_\_



**FOR UNIVERSITY OF GUELPH:**

Signature: \_\_\_\_\_  
Ed McBean, Professor

Date: \_\_\_\_\_

**FOR UNIVERSITY OF ONTARIO INSTITUTE OF TECHNOLOGY:**

Signature: \_\_\_\_\_  
Dr. Doug Holdway, Faculty of Science, UOIT

Date: \_\_\_\_\_

**FOR THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO:**

Signature: \_\_\_\_\_  
Dr. Susan Andrews, Professor  
Department of Civil Engineering  
Node Leader, Drinking Water

Date: \_\_\_\_\_

**FOR THE UNIVERSITY OF WESTERN ONTARIO:**

Signature: \_\_\_\_\_  
Dr. George Nakhla, Professor

Date: \_\_\_\_\_

**FOR WILFRID LAURIER UNIVERSITY:**

Signature: \_\_\_\_\_  
  
Deborah MacLachy, Node Leader (Ecotoxicology)

Date: 20 April 2012

**Schedule "G"**  
**Administrative Contacts**

<b>Lead Institution</b>	<b>Contact General</b>	<b>Contact Finance</b>
University of Waterloo	Andrew Barker Director, Institutional Research Office of Research, NH 1006 University of Waterloo Waterloo, Ontario N2L 3G1 519-888-4567 ext. 36004 519-725-9971 (fax) <a href="mailto:andrew.barker@uwaterloo.ca">andrew.barker@uwaterloo.ca</a>	Doreen White Senior Manager, Research Finance Office of Research, NH 1033 University of Waterloo Waterloo, Ontario N2L 3G1 519-888-4567 ext. 35059 519-746-7151 (fax) <a href="mailto:dwhite@uwaterloo.ca">dwhite@uwaterloo.ca</a>

<b>Participating Institutions</b>	<b>Contact General</b>	<b>Contact Finance</b>
McMaster University	Kathy Charters, Executive Director Research Office for Administration, Development & Support (ROADS) Gilmour Hall 305 McMaster University 1280 Main Street West, Hamilton, Ontario L8S 4L8 905-525-9140 ext. 23735 905-540-8019 (fax) <a href="mailto:chartersk@mcmaster.ca">chartersk@mcmaster.ca</a>	Susan Munro, Assistant Director Research Finance Gilmour Hall 305 McMaster University 1280 Main Street West Hamilton, Ontario L8S 4L8 905-525-9140 ext. 23711 905-540-8019 (fax) <a href="mailto:munros@mcmaster.ca">munros@mcmaster.ca</a>
Ryerson University	Paul McArthur, Grants/Contracts Officer: Research Infrastructure Ryerson University Office of Research Services, 350 Victoria Street Toronto, Ontario M5B 2K3 Phone: 416-979-5000 ext. 4841 <a href="mailto:pmcarth@ryerson.ca">pmcarth@ryerson.ca</a>	Vivian Chan, Senior Director, Research Administration and Finance Office of the Vice President, Research and Innovation Ryerson University Office of Research Services, 350 Victoria Street Toronto, Ontario M5B 2K3 Tel: 416-979-5000 ext. 2792 <a href="mailto:viv.chan@ryerson.ca">viv.chan@ryerson.ca</a>
University of Guelph	Laura Beaupre Director, Research Support Services Room 437, University Centre University of Guelph 50 Stone Road East Guelph, Ontario N1G 2W1 519 824-4120 ext. 56616 519-821-5236 (fax) <a href="mailto:lbeaupre@uoguelph.ca">lbeaupre@uoguelph.ca</a>	Lee Bennard Manager, Infrastructure Programs Research Financial Services Level 4 University Centre University of Guelph 50 Stone Road East Guelph, Ontario N1G 2W1 519-824-4120 ext. 52078 519-827-1685 (fax) <a href="mailto:lbennard@uoguelph.ca">lbennard@uoguelph.ca</a>
University of Ontario Institute of Technology	Jennifer Freeman Manager, Research Services Office of Research Services University of Ontario Institute of Technology Oshawa, Ontario L1H 7K4 905-721-8668 ext. 3176 <a href="mailto:Jennifer.Freeman@uoit.ca">Jennifer.Freeman@uoit.ca</a>	Gil Zulueta Manager, Research & Trust Accounting University of Ontario Institute of Technology Oshawa, Ontario L1H 7K4 905-721-8668 ext. 6546 <a href="mailto:gil.zulueta@uoit.ca">gil.zulueta@uoit.ca</a>

The Governing Council of the University of Toronto	Elizabeth Tharakan Contracts Officer Innovations & Partnerships Office University of Toronto Banting Institute 413 100 College St. Toronto Ontario M5G 1L5 416-946-5170 416-978-6052 (fax) elizabeth.tharakan@utoronto.ca	Eugenia Amul Research Accountant Research Oversight and Compliance Office 2nd Floor, McMurrich Bldg., 12 Queen's Park Crescent West, Toronto, Ontario M5S 1S8 416-978-2147 416-946-5763 (fax) eugenia.amul@utoronto.ca
The University of Western Ontario	Dan Sinai (Acting) Associate Vice-President, Research The University of Western Ontario 1151 Richmond Street, SSB 5183A London, Ontario N6A 3K7 (519) 661-3406 (519) 661-3907 (fax) dsinai2@uwo.ca	Meredith Legault Financial Officer The University of Western Ontario 1151 Richmond Street, SSB 6183 London, Ontario N6A 3K7 (519) 661-2111 ext. 85456 (519) 850-2509 (fax) mlegaul2@uwo.ca
Wilfrid Laurier University	Sally Gray Director: Research Services Office of Research Services, AH227 Wilfrid Laurier University Waterloo, Ontario N2L 3C5 519-884-0710 ext. 3528 519-884-7670 (fax) sgray@wlu.ca	Rene Soto Research Finance Administrator Office of Research Services, AH221 Wilfrid Laurier University Waterloo, Ontario N2L 3C5 519-884-0710 ext. 2695 519-884-7670 (fax) rsoto@wlu.ca

**Schedule "H"**  
**FedDev Attestation Form, Claim Statement Form, In-Kind Contribution Confirmation**

**Schedule "J"**  
**Management and Governance**

**The Board of Directors**

The board's primary responsibility will be to ensure that policies and practices are in place to warrant the effective functioning of and access to the platform. The board will include representatives of the private sector and Vice Presidents of Research as representatives of partner Universities. It may also include members from First Nations, governments and non-profit organizations, and others as appropriate.

The board is responsible for:

- Approving policies for management of the platform including a financial policy (fee structure), and an access/scheduling policy developed by the Platform Management Committee (PMC).
- General oversight of the administration of the Platform.
- Providing strategic guidance to the Operations Manager (OM).
- Assisting with promotion and branding of the SOWC as appropriate.
- establishing and approving the business model and governance structure of the SOWC "post-project" and for ensuring its successor board is in place on April 1, 2014.

The board will ensure compliance with the letter and the spirit of all agreements with funders, consortium members and other stakeholders, and will assist the advancement of SOWC's aims and objectives. The Board's term will be the duration of the project (until March 31, 2014). A simple majority will be required for decisions. Board membership is not remunerated, but Board members may claim appropriate expenses for participating in Board activities.

**Platform Management Committee (PMC)**

The PMC will advise the OM to ensure ongoing integration of the themes and to recommend new initiatives and corrective actions to support integration, access, and engagement by interested academic, private, and public organizations. The chair of each TOC and the Associate Operations Manager (AOM) will form the overall PMC. An industry representative of the Board will also serve on PMC along with representatives of any other organizations as appropriate for cross-platform integration (e.g. The Grand River Conservation Authority) as approved by the Board. PMC will be chaired by the OM.

Above all, the PMC is designed to ensure integration across the Theme Areas and to assist the Operations Manager in ensuring the success and optimal functioning of the platform. It will develop policies for the management of the platform including a financial policy (fee structure), and an access/scheduling policy for approval of the Board.

**Theme Operations Committees (TOCs)**

Each Theme area (Watersheds, Drinking Water, Wastewater, Ecotoxicology, Sensors and Analytics) will be represented by a Theme Operations Committee (TOC).

Assisting and reporting to the Operations Manager, each TOC will have one member from each partner institution that is engaged in the theme (not all eight universities have engagement in each theme), appointed by each institution's Vice President Research. Each TOC will also include at least one Industry representative, and may include government or non-government organization representatives as appropriate. In some cases, legacy management structures are in place (i.e. the Borden field facility) and the OM working with the TOC will leverage such structures as is appropriate. Recognizing the complexity of the operation of the test and demonstration facility in London, there will be an AOM for that facility.

The OM, the AOM, and the TOCs will insure that the platform is available to all users equitably. The Operations Manager will work with each TOC to establish policies that maximize access while maintaining operational status and ensuring adequate funds are maintained for operation, repairs and replacement of equipment. TOCs will review operations semi-annually and recommend adjustments as required to the Operations Manager and thence to the Platform Management Committee and the Board.

Above all, the Theme Operations Committees are designed to ensure integration within the Theme Areas and across participating Universities and to ensure that the Operations Manager can access the expertise of the research community in each theme. Each Theme Operating Committee will have a Chair or "Node Leader" responsible for facilitating meetings and engagement within the TOC and for representation of the TOC on the PMC for full integration and coordination across Theme areas.

The TOC and Node Leaders also have primary responsibility for the acquisition and installation of the equipment associated with their Theme Area. Policies of the host Institution must be followed for all acquisition and hiring, and each University is responsible for financial accounting. Node Leaders are responsible for overall management of the budget for their Theme Area, and reporting to PMC.

### Management

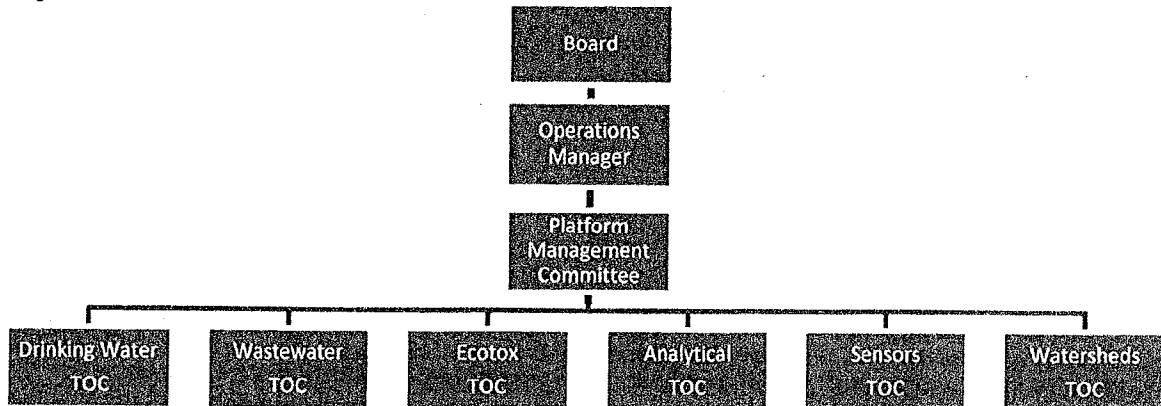
The Operations Manager is responsible to the Board for the establishment and overall operation of the platform and for ensuring complete integration among the themes. The OM's first duty is to ensure integration and ease of access for users, working with and through the Theme Operations Committees.

The OM will be responsible to manage activities associated with each of the individual Platform Nodes including the supervision of equipment purchasing and installation, and facilitation of access to the facilities as they become available for testing, piloting and demonstration by industrial partners and other users. The OM also has primary responsibility for marketing and promotion of SOWC.

SOWC personnel will report directly to the Operations Manager. Positions will include an Associate Operations Manager (AOM) to be located in London. The AOM is responsible for the operations of the Western University London activities of the Wastewater Node of the platform at the City of London wastewater treatment plant. Other SOWC positions are expected to include an Industry Coordinator and a Communications Coordinator as well as an Office Manager/Executive Assistant.

Node Facility Managers and Platform Operations Technicians will be allocated to each of the Platform Nodes based on need, and will be hired by and report directly to the relevant Node Leader. These positions will have responsibility for coordinating and expediting the procurement of equipment required for each Node, arranging for installation as required and directly assisting industrial partners in their Platform testing and demonstration activities and field work.

Organizational Chart:



**Schedule "K"**  
**Dispute Resolution Procedures**

1. The Party that desires mediation shall serve the other Party with a written notice requesting that the dispute be submitted to a non-binding mediation process ("Mediation Notice"). The Parties shall mutually agree on a single mediator to mediate the dispute in accordance with mediation procedures suggested by the mediator. The involved Parties agree to use their best efforts in participating in the mediation process and attempt to resolve the dispute. The Parties agree to have their principals, including their respective Vice-President, Research, participate in the mediation process, including being present throughout the mediation session(s). The mediation shall be held in Waterloo. The Parties agree to share equally the costs of mediation, which costs shall not include costs incurred by a Party for representation by counsel.
2. If the Parties are unable to resolve all issues in dispute in the mediation within thirty (30) days of the Mediation Notice, the Parties agree that the remaining issues in dispute must be determined by arbitration. The Party that desires arbitration shall nominate one arbitrator and shall notify the other Party of such nomination, who shall within (30) days after receiving such notice nominate an arbitrator. The two arbitrators shall select a third arbitrator to act jointly with them. If the two arbitrators appointed by the Parties shall fail within a further 15-day period to select a third arbitrator, either Party may apply to a judge of the Ontario Superior Court of Justice to appoint such third arbitrator. If a second arbitrator is not nominated within (30) days, then the first arbitrator may proceed to determine the dispute and the first arbitrator's decision shall, subject to the provisions hereof, be binding upon the Parties.
3. The arbitrator or arbitrators selected to act hereunder shall be qualified by education and training to pass upon the particular question in dispute.
4. The arbitrator or arbitrators so chosen shall proceed immediately to hear and determine the matter or matters in dispute. The decision of the arbitrator, or the decision of a majority of arbitrators, as the case may be, shall be made within 45 days after the confirmation of the appointment of the arbitrator, or the appointment of the third arbitrator, as the case may be, subject to any reasonable delay due to unforeseen circumstances. Notwithstanding the foregoing, in the event the single arbitrator fails to make a decision within 60 days after his/her appointment or if the arbitrators, or a majority of them, fail to make a decision within 60 days after the appointment of the third arbitrator, then either Party may elect to have a new single arbitrator or arbitrators chosen in like manners as if none had previously been selected.
5. If a Party fails or refuses to appear and give evidence or otherwise participate in the arbitration contemplated, the arbitrator(s) shall decide the reference in the absence of that Party.
6. The decision of the arbitrators or any two of them (or the decision of the single arbitrator, if only one is appointed in the circumstances described in the subsection 1.1) shall be given in writing and shall be final, binding on the Parties, not subject to any appeal, and shall deal with the question of costs of arbitration and all matters related thereto.
7. Judgment upon the award rendered may be entered into any court having jurisdiction, or application may be made to such court for a judicial recognition of the award or an order of enforcement thereof, as the case may be.

Agenda Item #

Page #

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**Schedule B**

To the Agreement with the University of Western Ontario





Stantec



CORPORATION OF THE  
CITY OF LONDON

London  
CANADA

# GREENWAY POLLUTION CONTROL CENTRE SOUTHERN ONTARIO WATER CONSORTIUM - LONDON WASTEWATER FACILITY (SOWC - LWF)

DECEMBER 2012 - 90% REVIEW

Project Number: 165500726



165500726 - SOWC - LWF - Pollution Control Centre - December 2012 - 90% Review - Project Number: 165500726

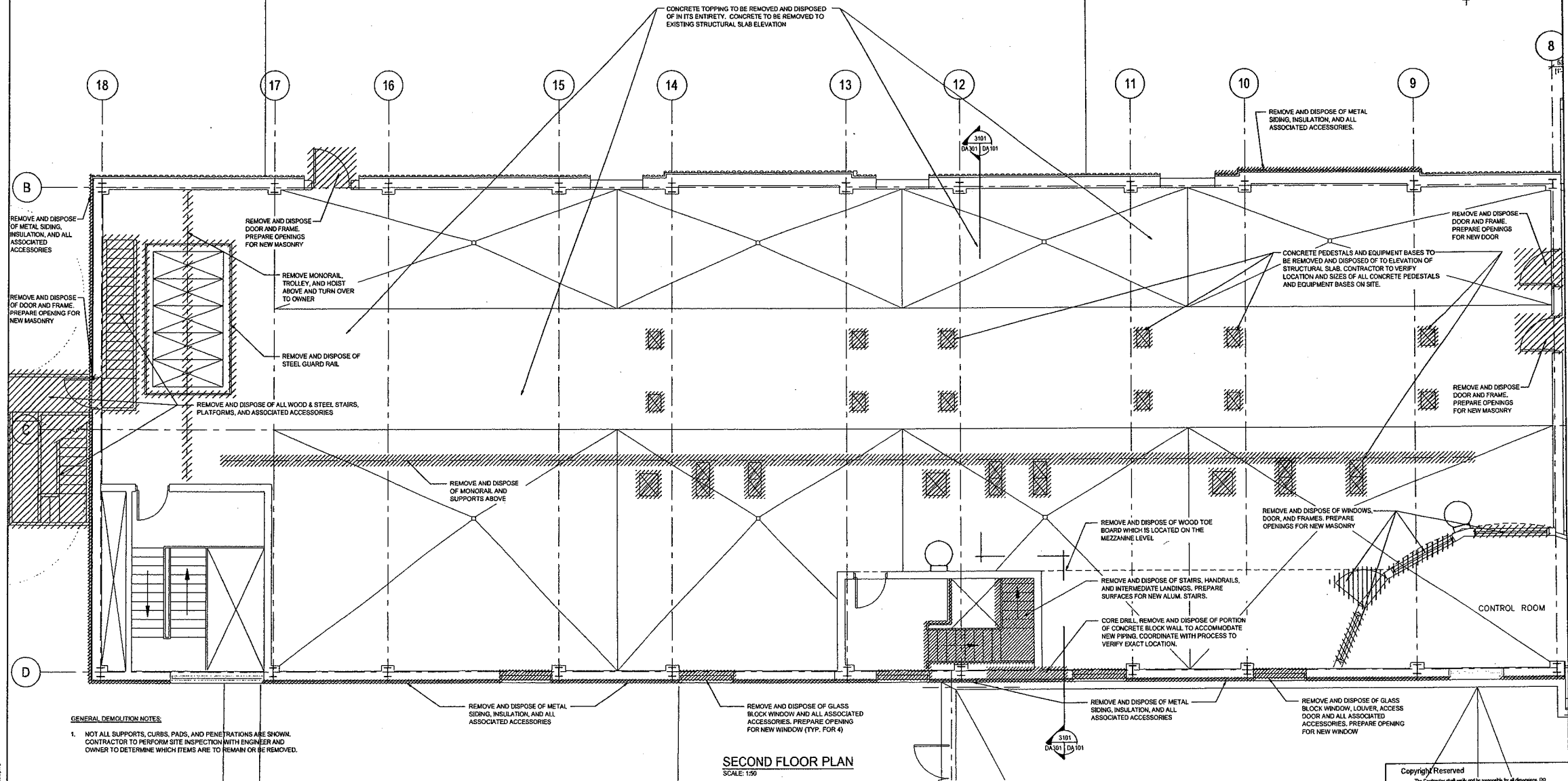


8

18 17 16 15 14 13 12 11 10 9

B

D



**GENERAL DEMOLITION NOTES:**  
 1. NOT ALL SUPPORTS, CURBS, PADS, AND PENETRATIONS ARE SHOWN. CONTRACTOR TO PERFORM SITE INSPECTION WITH ENGINEER AND OWNER TO DETERMINE WHICH ITEMS ARE TO REMAIN OR BE REMOVED.

**SECOND FLOOR PLAN**  
 SCALE: 1:50

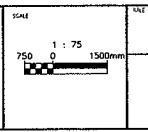
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					CHECKED	02				
					APPROVED	03				
					DATE					
					BY					


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 Fax: 519.645.6575  
 www.stantec.com  
 Project No. 10590728


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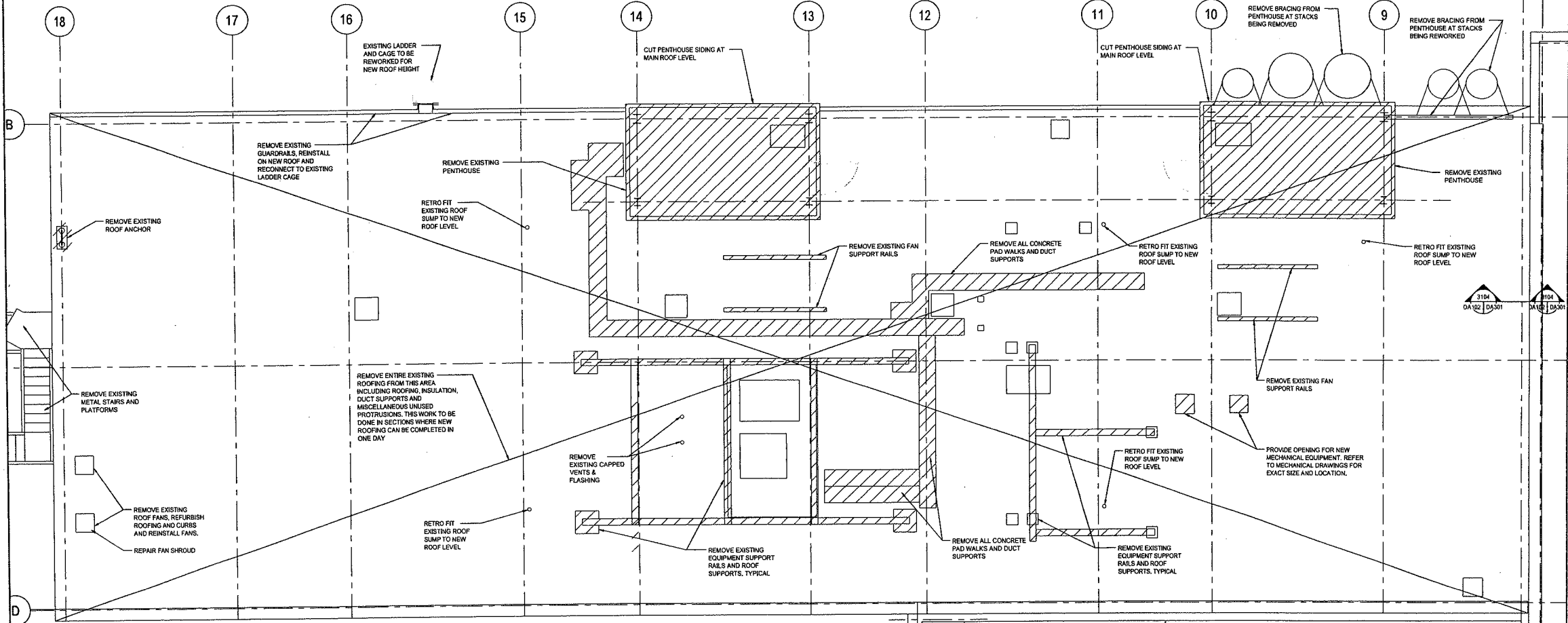
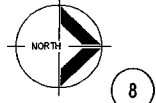


SOWC-LWF  
 GREENWAY POLLUTION CONTROL CENTRE  
**DEMOLITION**  
 SECOND FLOOR PLAN

ES1721  
 DA101

CONSULTANT OF RECORD: STANTEC CONSULTING LTD. PROJECT NO. 10590728

**5000± HIGH PENTHOUSE CONSTRUCTION:**  
 BUILT-UP ROOFING ON 80 THICK INSULATION ON PRECAST CONCRETE ROOF SLABS WITH CONCRETE PERIMETER CURBS ON STEEL FRAMING.  
 SANDWICH PANEL WALLS ON STEEL GIRTS WITH STEEL COLUMNS AND BRACINGS.  
 300 HIGH x 220 WIDE CONCRETE WALL CURB AT MAIN ROOF



- GENERAL DEMOLITION NOTES:**
1. NOT ALL DUCT SUPPORTS AND ROOF PENETRATIONS ARE SHOWN. CONTRACTOR TO PERFORM SITE INSPECTION WITH ENGINEER AND OWNER TO DETERMINE WHICH ITEMS ARE TO REMAIN OR BE REMOVED.
  2. SCHEDULE ONLY PORTIONS OF ROOF REMOVAL THAT CAN BE REFURBISHED WITH NEW ROOF IN ONE DAY. SEAL NEW ROOFING TO EXISTING IF RAIN IS FORECAST.

**ROOF PLAN**  
SCALE 1:50

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DETAILS	NO.	REVISIONS	DATE	CONSULTANT
DESIGN	01	ISSUE FOR PERMIT	12/2017	STANTEC
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CHECKED	03			
APPROVED	04			
DRAWN	05			

CONSULTANT OF DESIGN

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Project No: 16500725

ENGINEER: STAMP

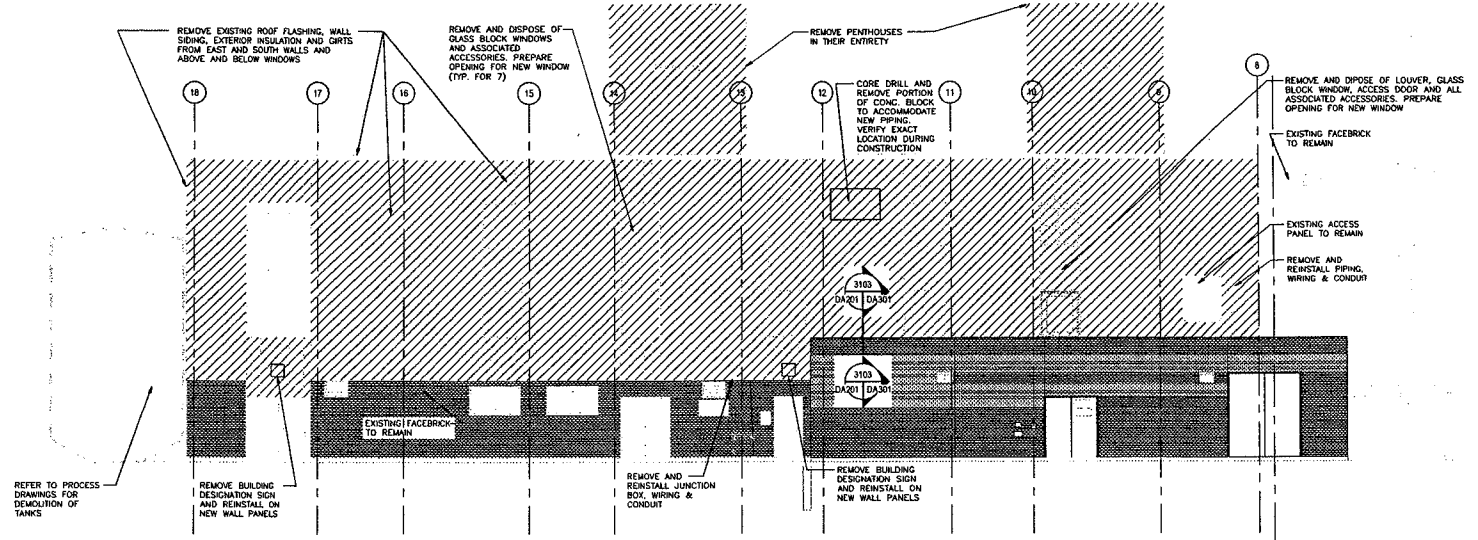
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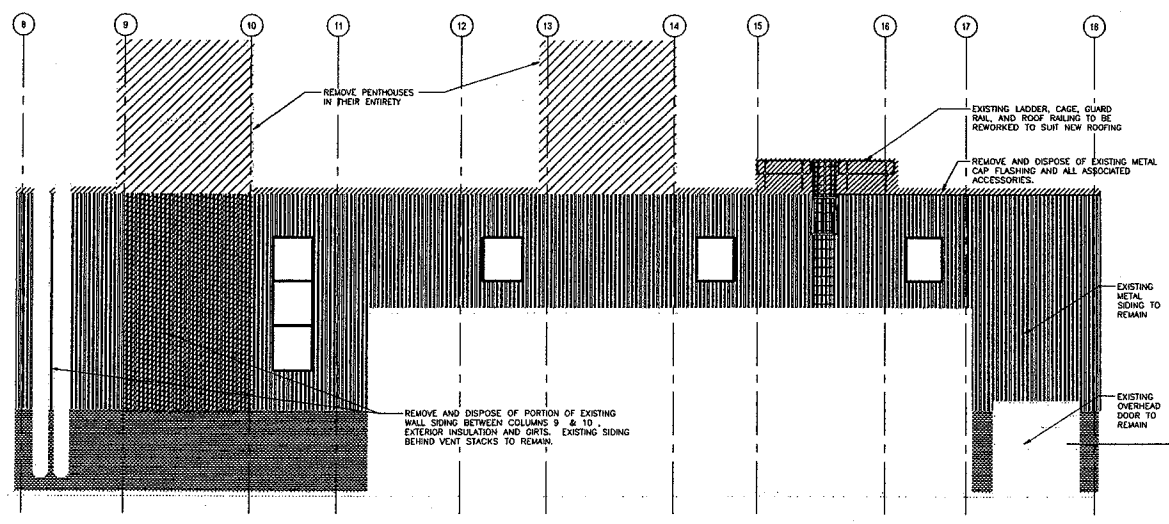
**SOWC-LWF GREENWAY POLLUTION CONTROL CENTRE**

**DEMOLITION ROOF PLAN**

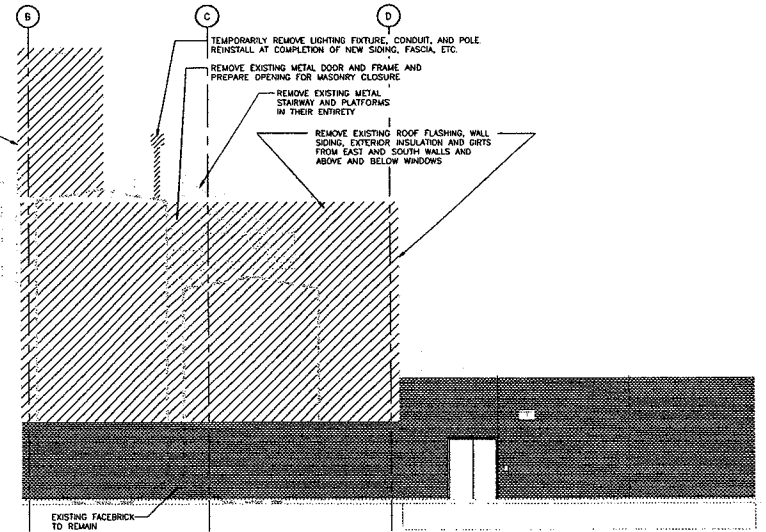
PROJECT NO.	ES1721
DATE	DA102



**EAST ELEVATION - DEMOLITION**  
1:100



**WEST ELEVATION - DEMOLITION**  
1:100




**SOUTH ELEVATION - DEMOLITION**  
1:100

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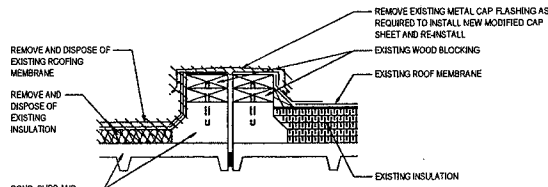

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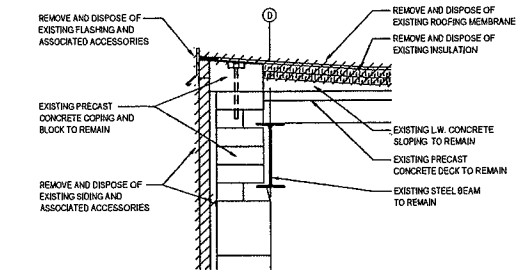
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**SOWC-LWF**  
 GREENWAY POLLUTION CONTROL CENTRE  
**DEMOLITION ELEVATIONS**

PROJECTED  
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**DA201**  
 PARTIAL No.

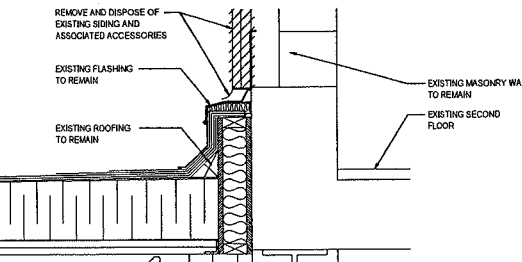
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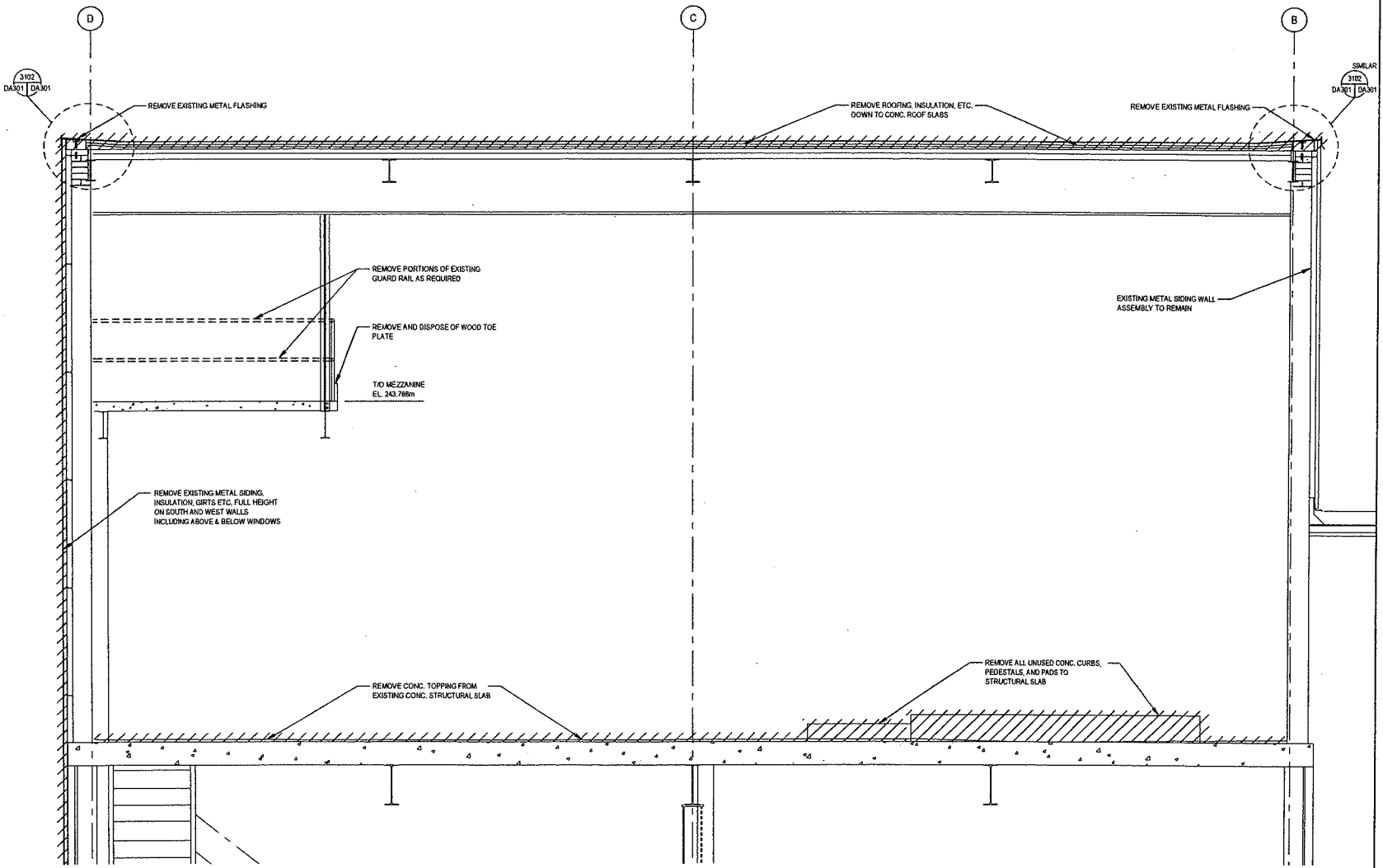
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DA301 DA301 1:10



3102 SECTION  
DA301 DA301 1:10



3103 SECTION  
DA301 DA301 1:10



3101 SECTION  
DA301 DA101 1:25

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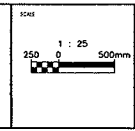
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CHECKED: SN				
APPROVED: EE				
DATE: 02/11/11				
BY: (M/05)				

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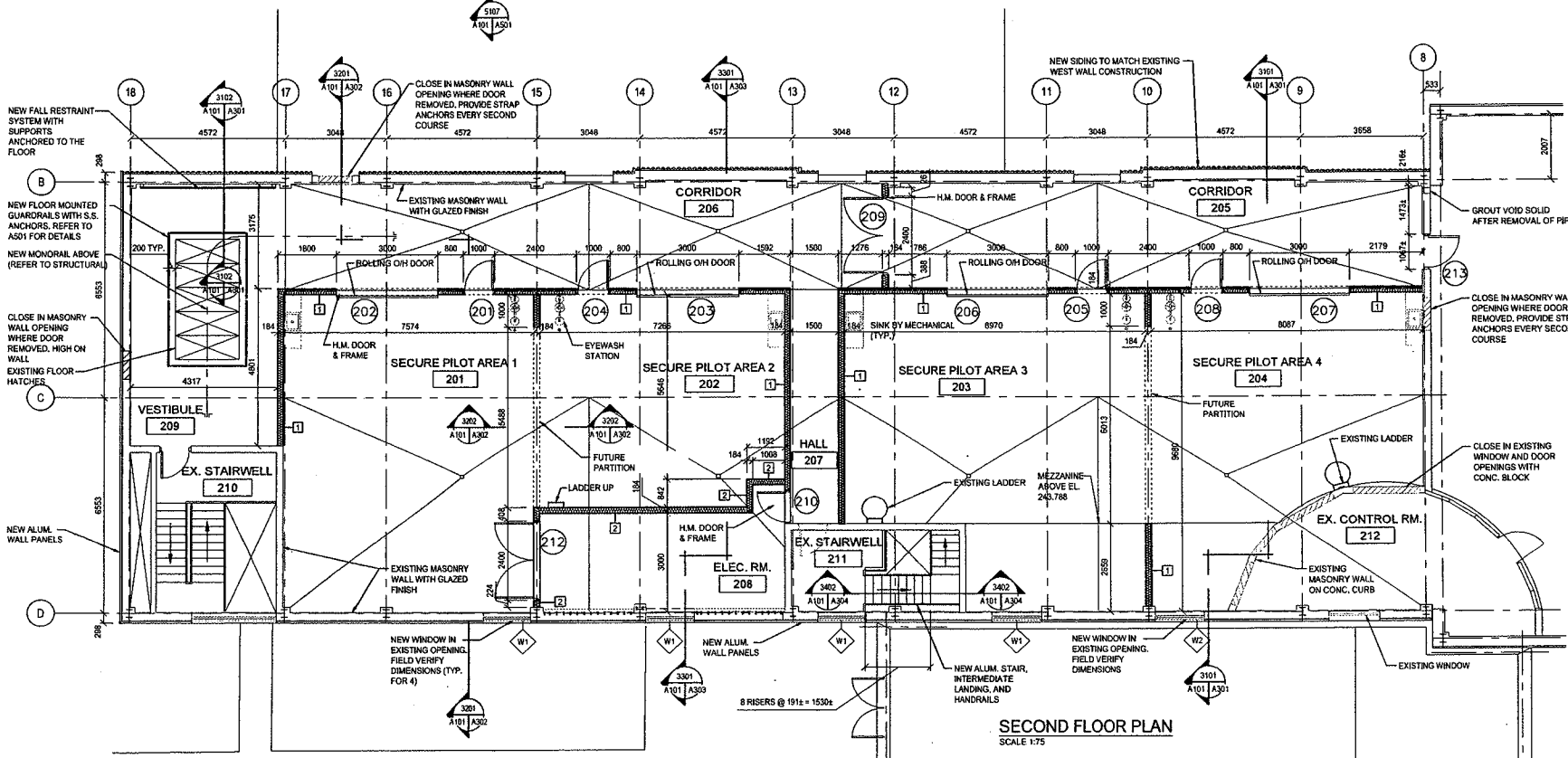
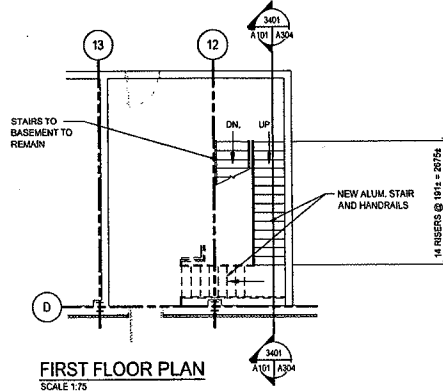
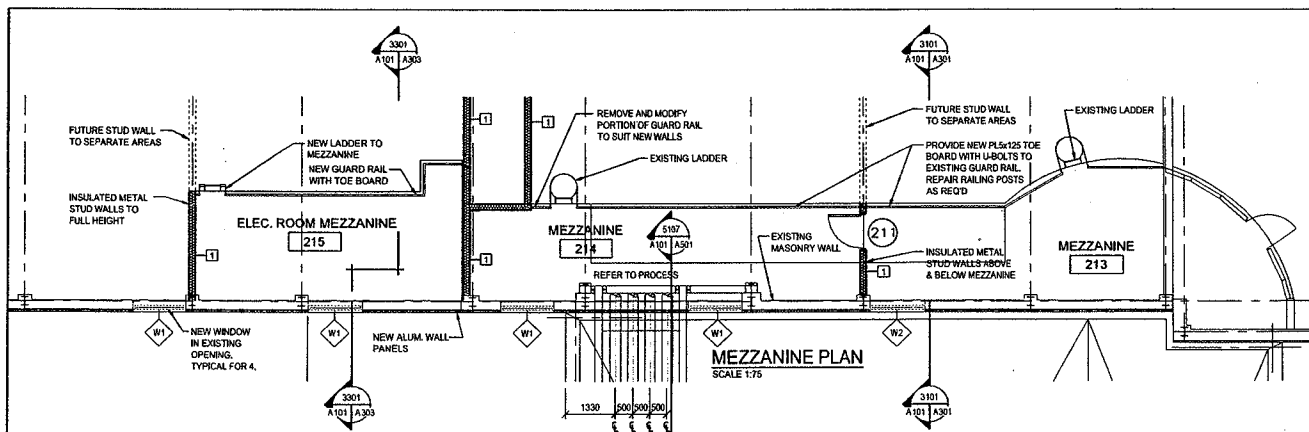


SOWC-LWF  
GREENWAY POLLUTION CONTROL CENTRE

DEMOLITION SECTION

PROJECT: ES1721  
SHEET: DA301

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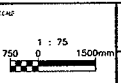
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2	1 HOUR FIRE RESISTANCE RATING 12mm CEMENT BOARD 1.22 THICK 150 METAL STUDS @ 400 O.C. FILL VOID WITH MINERAL FIBRE INSULATION 12mm CEMENT BOARD

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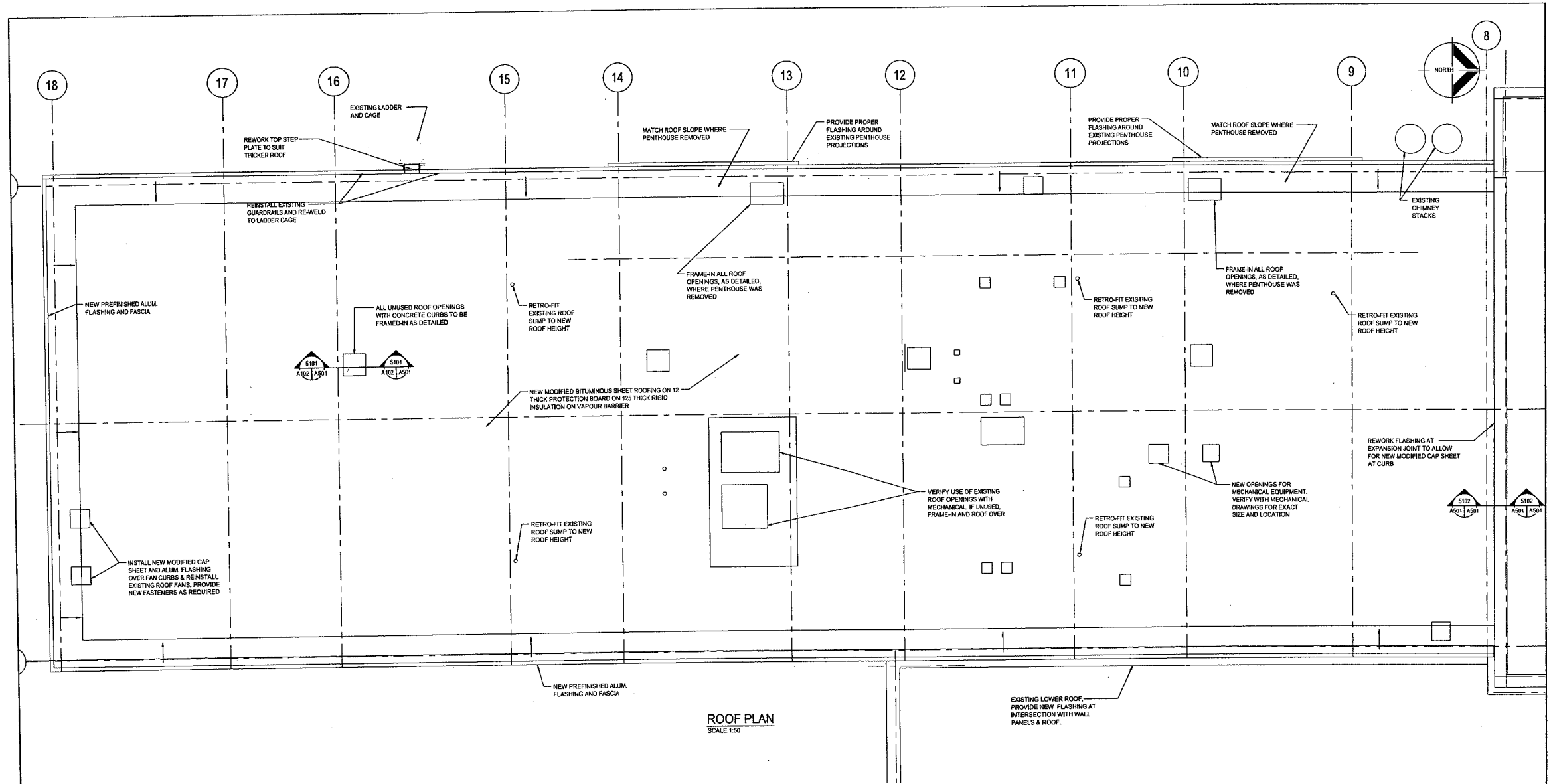
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SOWC-LWF  
 GREENWAY POLLUTION CONTROL CENTRE  
**SECOND FLOOR AND MEZZANINE PLANS**  
 ES1721  
 A101

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ROOF PLAN  
SCALE 1:50

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REVISIONS	DATE	CONSULTANT

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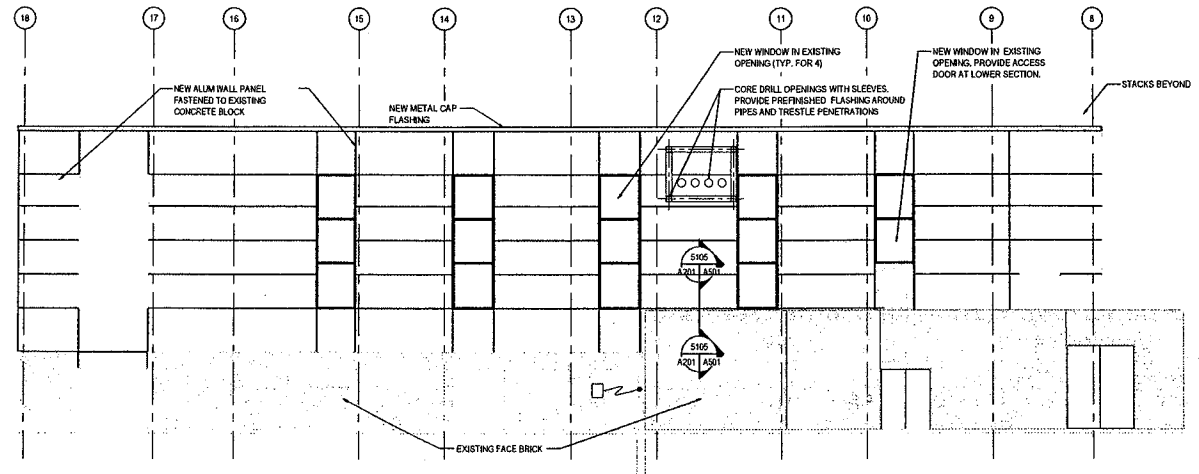
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SCALE 1:50

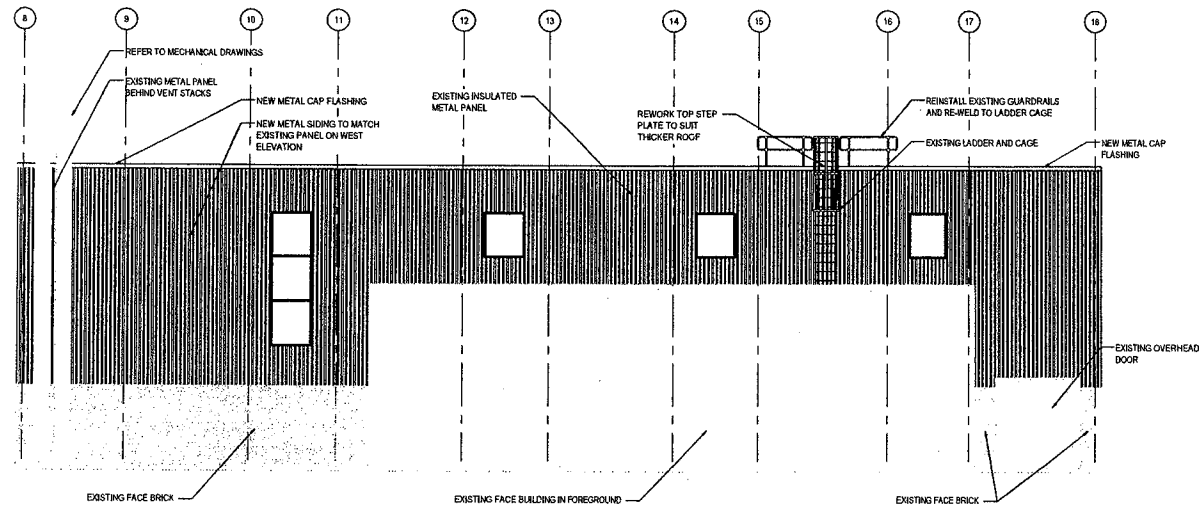
SOWC-LWF  
GREENWAY POLLUTION CONTROL CENTRE

**NEW ROOF PLAN**

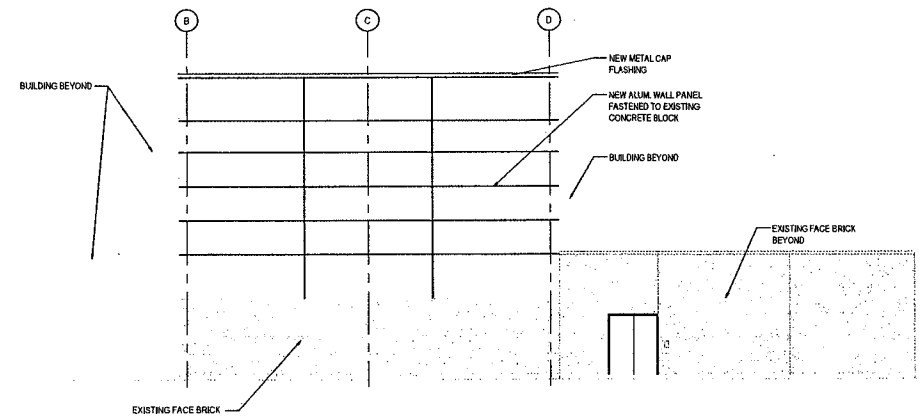
PROJECT NO. ES1721  
SHEET NO. A102  
PLANTING



**EAST ELEVATION**  
1:100



**WEST ELEVATION**  
1:100




**SOUTH ELEVATION**  
1:100

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					CHANGED					
					CHANGED					
					APPROVED					
					BY					
					DATE					

  
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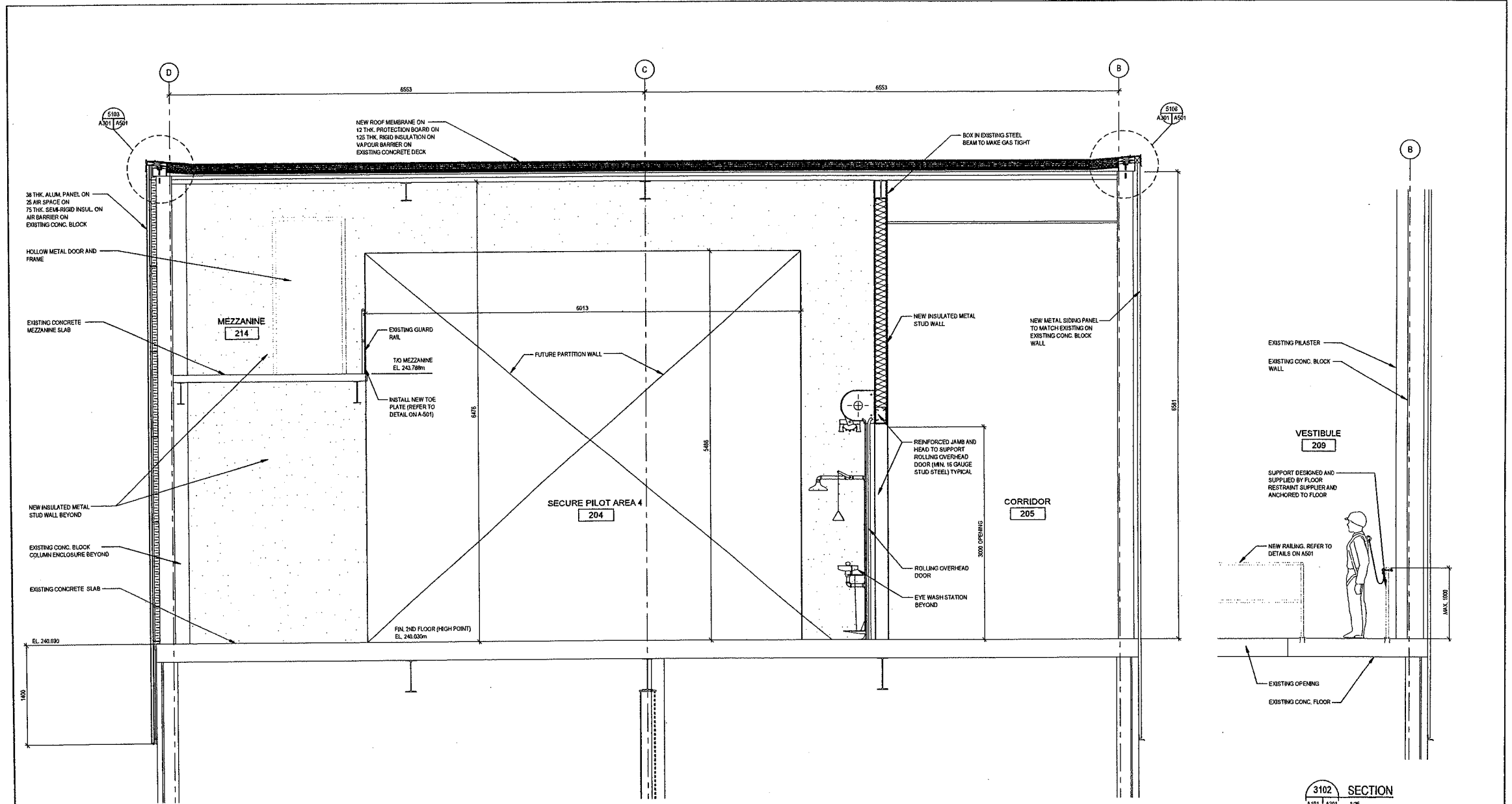
  
**CORPORATION OF THE CITY OF LONDON**

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PROJECT: **SOWC-LWF GREENWAY POLLUTION CONTROL CENTRE**  
 DRAWING NO: **ELEVATIONS**  
 SHEET NO: **ES1721**  
 TITLE: **A201**

12/11/2012 11:14 AM STANTEC





3101 SECTION  
A101 A301 1:25

3102 SECTION  
A101 A301 1:25

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					CONTRACTOR	1	REVISIONS REVIEW	1/1/20	SLATEC
					OWNER				
					DESIGNED BY				
					CHECKED BY				
					DRAWN BY				
					DATE				
					BY (NAME)				

CONSULTANT OF DESIGN



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
Project No. 140509726

CLIENT/OWNER



**CORPORATION OF THE CITY OF LONDON**

SCALE



1 : 50

FILE

**SOWC-LWF**  
GREENWAY POLLUTION CONTROL CENTRE

SECTION

PROJECT NO.

**ES1721**

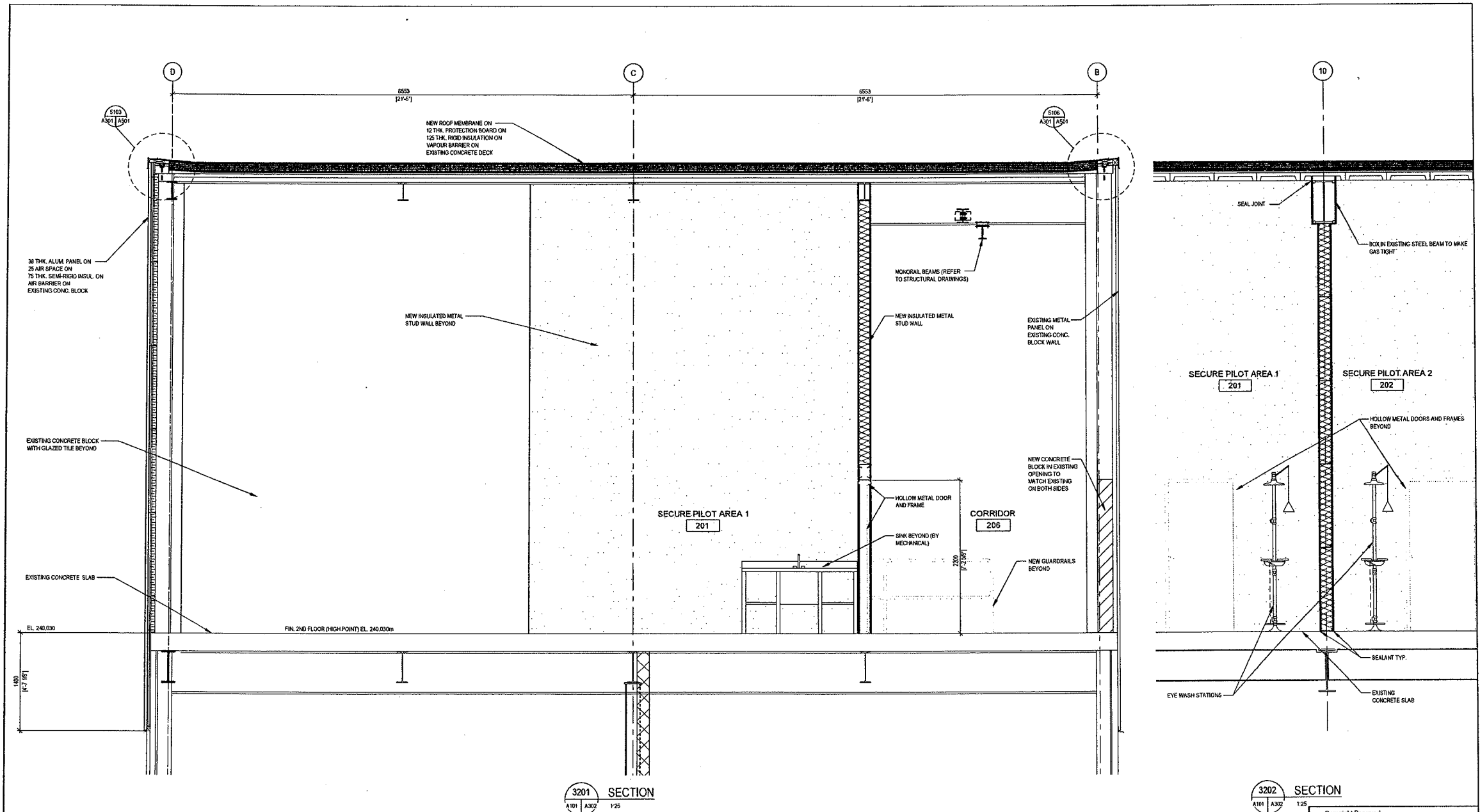
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**A301**

DATE

1/1/20

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3201 SECTION  
A101 | A302 | 1/25

3202 SECTION  
A101 | A302 | 1/25

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					STAIRS				
					STAIRS				
					STAIRS				
					STAIRS				

  
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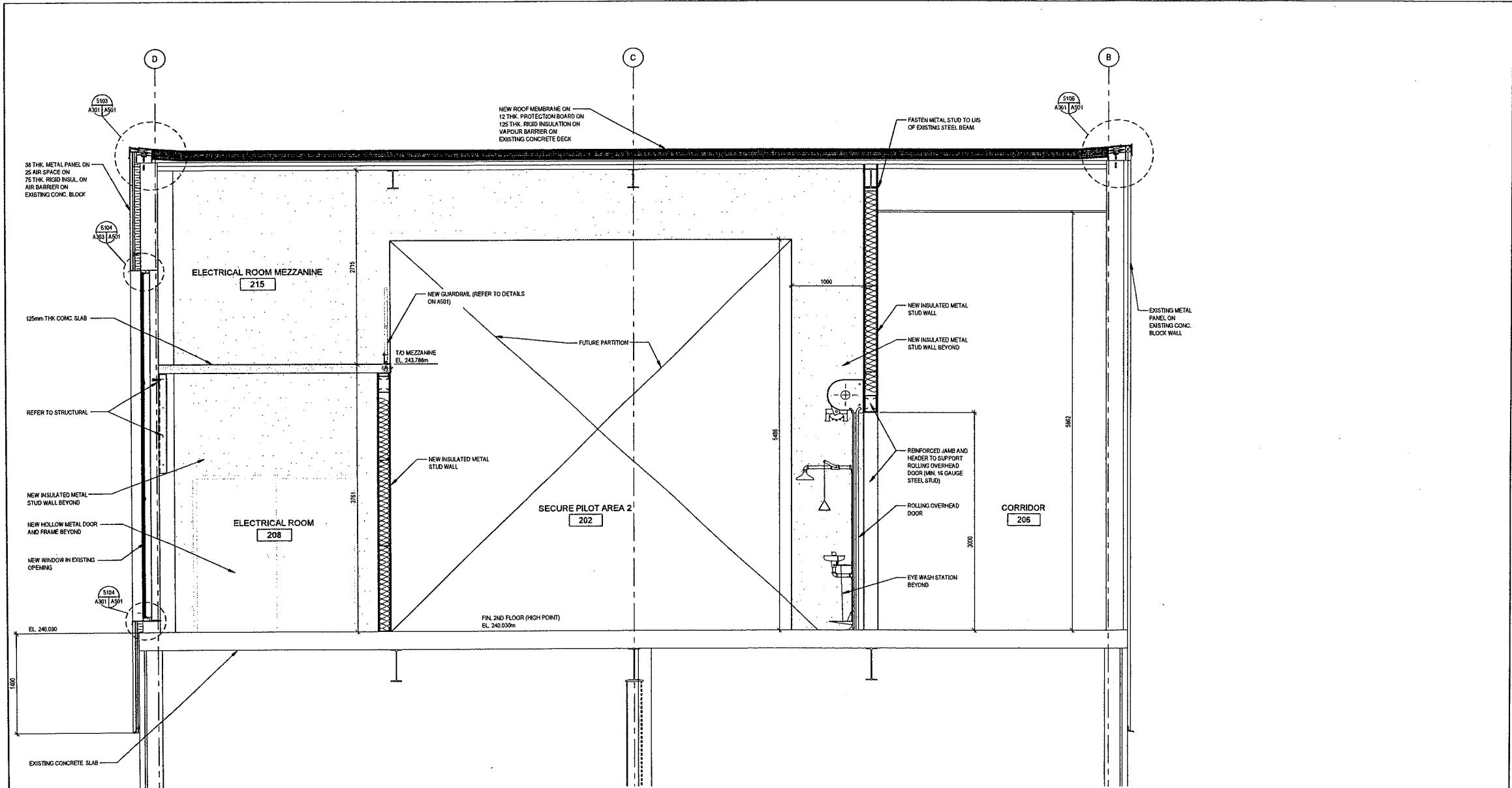
  
**CORPORATION OF THE CITY OF LONDON**

SCALE  
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PROJECT  
**SOWC-LMF  
 GREENWAY POLLUTION CONTROL CENTRE**

PROJECT NO.  
**ES1721**  
 SHEET NO.  
**A302**  
 PURCHASE

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A101 | A303 1:25

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EXISTING SERVICES	DRAWING #	SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	Nr.	REVISIONS	DATE (Y/M/D)	CONSULTANT
						DISCO	01	SUBMIT FOR REVIEW	07/22/11	STANTEC
						REVISION				
						APPROVED				
						DATE				

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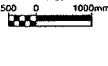
ENGINEER'S STAMP



**CORPORATION OF THE CITY OF LONDON**  
London CANADA

SCALE

1 : 50



PROJECT: SOWC-LWF GREENWAY POLLUTION CONTROL CENTRE

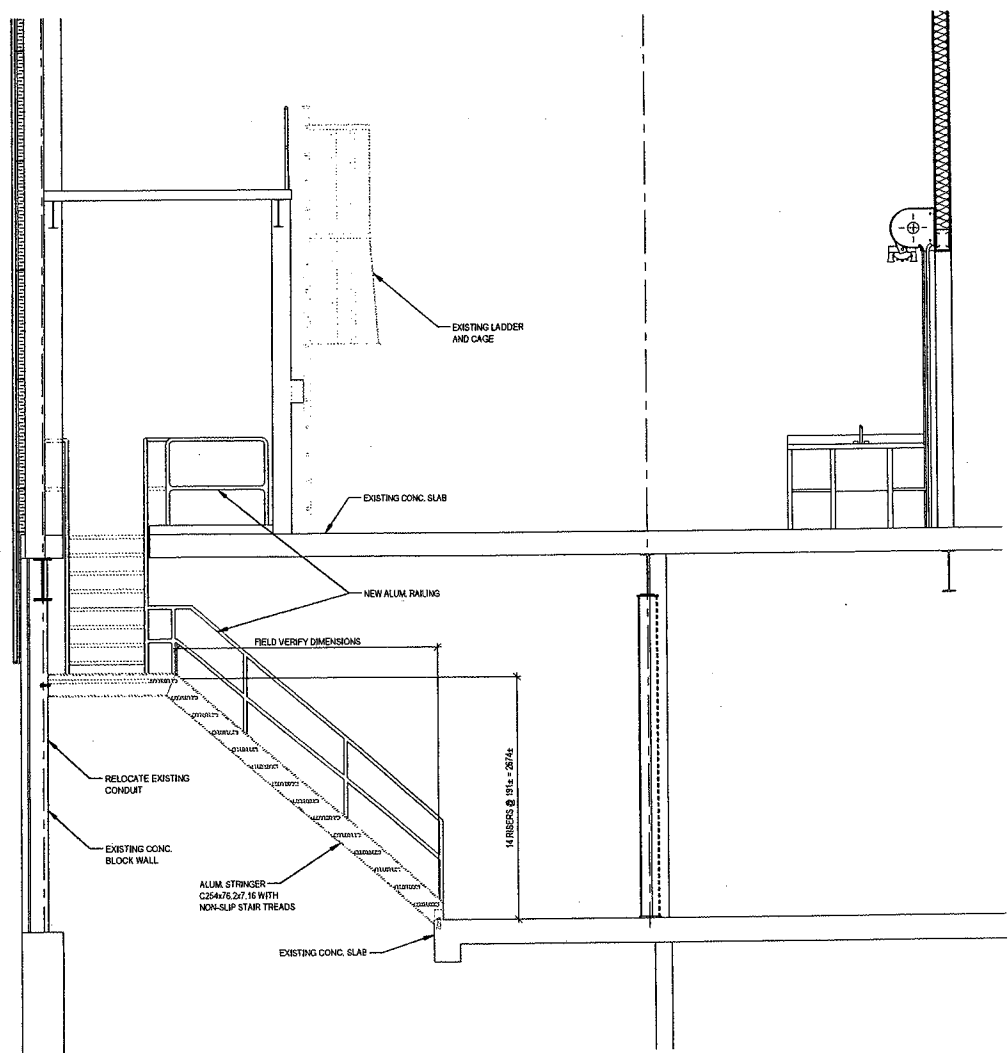
REVISION: ES1721

DRAWING: A303

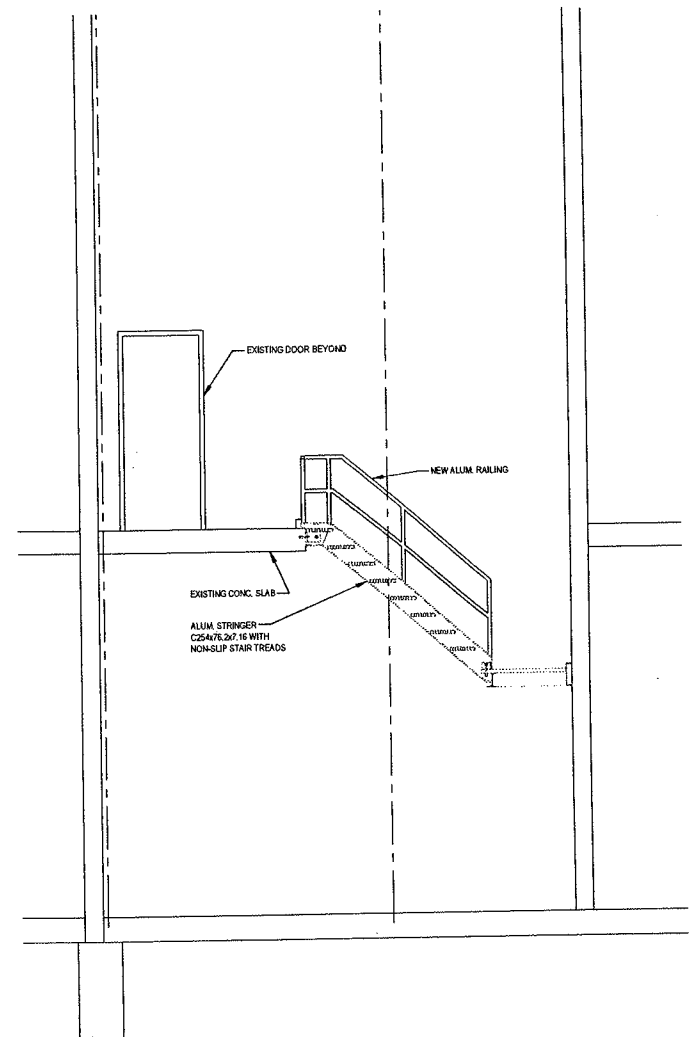
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DRAWING: SOWC-LWF GREENWAY POLLUTION CONTROL CENTRE



3401 SECTION  
A101 A304 1:30



3402 SECTION  
A101 A304 1:30

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EXISTING SERVICES	DRAWING & SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT
					D. SIGN	01	1	3/18/2022 FOR SIGN REVIEW	STANTEC
					DESIGNED	02			
					CHECKED	03			
					APPROVED	04			
					DATE				
					BY				

CONTRACTOR OF RECORD



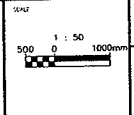
**Stantec Consulting Ltd.**  
 171 Guesep Avenue  
 London ON Canada  
 N6A 5J7  
 Tel: 519.646.2007  
 Fax: 519.646.6575  
 www.stantec.com

Project No. 16594728

ENGINEER OF RECORD



**CORPORATION OF THE  
CITY OF LONDON**

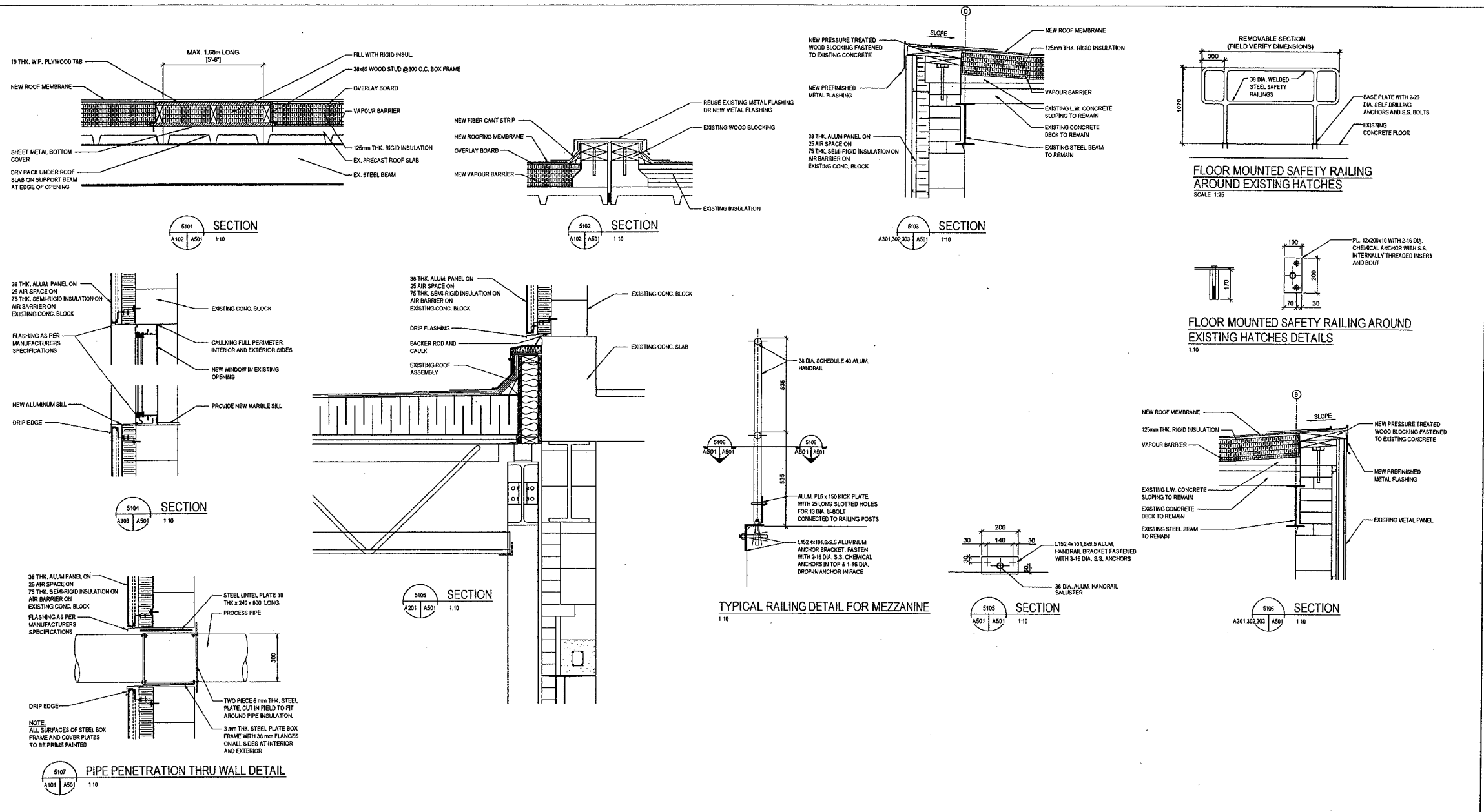


SOWC-LWF  
GREENWAY POLLUTION CONTROL CENTRE

PROJECT No. ES1721  
SHEET No. A304  
PUNFILE No.

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SECTIONS



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EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION

DETAILS	Nb.	REVISIONS	DATE	CONTRACTANT
01	1	ISSUED FOR PERMIT	02/21/2017	STANTEC
02				
03				
04				
05				
06				
07				

CONSULTANT OF RECORD

**Stantec Consulting Ltd.**  
171 Queen's Avenue  
London ON Canada  
N5A 5J7  
Tel: 519.645.2007  
Fax: 519.645.8575  
www.stantec.com

Project No. 15510726

ENGINEER OF RECORD

**CORPORATION OF THE CITY OF LONDON**

SCALE

1 : 10

100 0 200mm

SOWC-LWF  
GREENWAY POLLUTION CONTROL CENTRE

DETAILS

RESPECTIVE

ES1721

REVISED

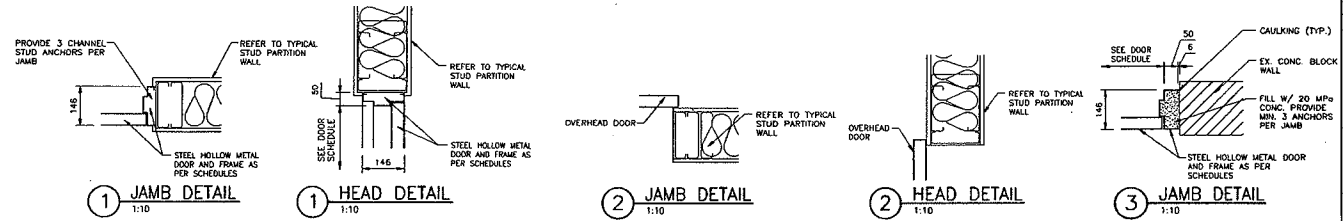
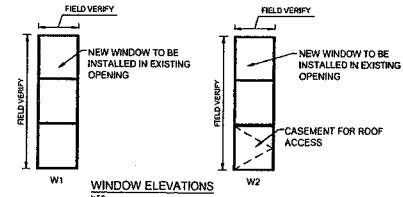
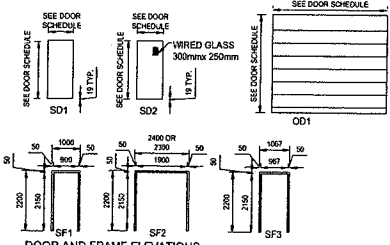
A501

APPROVED

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DOOR FINISH SCHEDULE

No.	DOORS										FRAMES					HARDWARE SCHEDULE															
	TYPE	QUANTITY	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	OPERATION	GLASS	FIRE-RATING	TYPE	DEPTH	JAMB/HEAD DETAIL	MATERIAL	FINISH	FIRE-RATING	ACTIVE LEAF	HINGE	EXIT DEVICE	CLOSER	LOCK SET	PASSAGE SET	PRIVACY SET	WEATHER STRIP	THRESHOLD	WALL STOP	FLOOR STOP	KICK PLATE	REMARKS		
201	SD1	1	900mm	2150mm	45mm	HOLLOW METAL	PAINT	HINGED	-	3/4	SF1	50mm	1	HOLLOW METAL	PAINT	3/4	-	1.5	-	1	1	-	-	-	-	-	-	-	1		
202	OD1	1	3000mm	3000mm	50mm	GALVANIZED STEEL	PAINT	CHAIN HOIST	-	3/4	-	-	2	-	PAINT	3/4	-	-	-	-	-	-	-	-	-	-	-	-	-	REFER TO MANUFACTURERS SPECIFICATIONS	
203	OD1	1	3000mm	3000mm	50mm	GALVANIZED STEEL	PAINT	CHAIN HOIST	-	3/4	-	-	2	-	PAINT	3/4	-	-	-	-	-	-	-	-	-	-	-	-	-	REFER TO MANUFACTURERS SPECIFICATIONS	
204	SD1	1	900mm	2150mm	45mm	HOLLOW METAL	PAINT	HINGED	-	3/4	SF1	50mm	1	HOLLOW METAL	PAINT	3/4	-	1.5	-	1	1	-	-	-	-	-	-	-	1		
205	SD1	1	900mm	2150mm	45mm	HOLLOW METAL	PAINT	HINGED	-	3/4	SF1	50mm	1	HOLLOW METAL	PAINT	3/4	-	1.5	-	1	1	-	-	-	-	-	-	-	1		
206	OD1	1	3000mm	3000mm	50mm	GALVANIZED STEEL	PAINT	CHAIN HOIST	-	3/4	-	-	2	-	PAINT	3/4	-	-	-	-	-	-	-	-	-	-	-	-	-	REFER TO MANUFACTURERS SPECIFICATIONS	
207	OD1	1	3000mm	3000mm	50mm	GALVANIZED STEEL	PAINT	CHAIN HOIST	-	3/4	-	-	2	-	PAINT	3/4	-	-	-	-	-	-	-	-	-	-	-	-	-	REFER TO MANUFACTURERS SPECIFICATIONS	
208	SD1	1	900mm	2150mm	45mm	HOLLOW METAL	PAINT	HINGED	-	3/4	SF1	50mm	1	HOLLOW METAL	PAINT	3/4	-	1.5	-	1	1	-	-	-	-	-	-	-	1		
209	SD2	2	1150mm	2150mm	45mm	HOLLOW METAL	PAINT	HINGED	WIRED	3/4	SF2	50mm	1	HOLLOW METAL	PAINT	3/4	LH	1.5	-	1	-	1	-	1	1	-	1	1	-	REFER TO MANUFACTURERS SPECIFICATIONS	
210	SD1	1	900mm	2150mm	45mm	HOLLOW METAL	PAINT	HINGED	-	3/4	SF1	50mm	1/3	HOLLOW METAL	PAINT	3/4	-	1.5	-	1	1	-	-	-	-	-	-	1	1		
211	SD1	1	900mm	2150mm	45mm	HOLLOW METAL	PAINT	HINGED	-	3/4	SF1	50mm	1	HOLLOW METAL	PAINT	3/4	-	1.5	-	1	1	-	-	-	-	-	-	-	1	1	
212	SD1	2	1150mm	2150mm	45mm	HOLLOW METAL	PAINT	HINGED	-	3/4	SF2	50mm	1	HOLLOW METAL	PAINT	3/4	LH	1.5	-	1	1	-	-	-	-	-	-	-	1	1	REFER TO MANUFACTURERS SPECIFICATIONS
213	SD2	1	967mm	2150mm	45mm	HOLLOW METAL	PAINT	HINGED	WIRED	3/4	SF3	50mm	3	HOLLOW METAL	PAINT	3/4	LH	1.5	-	1	1	1	-	1	1	-	-	-	1	1	FIELD VERIFY DIMENSIONS



ROOM FINISH SCHEDULE

No.	ROOM NAME	FLOOR	BASE			CEILING			NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		REMARKS
			MATERIAL	FINISH	HEIGHT	MATERIAL	FINISH	HEIGHT	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	
201	SECURE PILOT AREA 1	CONCRETE	SEALER	-	-	CONCRETE DECK	PAINT	6475	CEMENT BOARD	PAINT	GLAZED BLOCK	-	GLAZED BLOCK/ CEMENT BOARD	PAINT	CEMENT BOARD	PAINT	CLEAN GLAZED BLOCK TYPICAL FOR ALL ROOMS
202	SECURE PILOT AREA 2	CONCRETE	SEALER	-	-	CONCRETE DECK	PAINT	6475	CEMENT BOARD	PAINT	GLAZED BLOCK/ CEMENT BOARD	PAINT	GLAZED BLOCK/ CEMENT BOARD	PAINT	CEMENT BOARD	PAINT	CLEAN GLAZED BLOCK TYPICAL FOR ALL ROOMS
203	SECURE PILOT AREA 3	CONCRETE	SEALER	-	-	CONCRETE DECK	PAINT	6475	CEMENT BOARD	PAINT	GLAZED BLOCK	-	GLAZED BLOCK/ CEMENT BOARD	PAINT	CEMENT BOARD	PAINT	
204	SECURE PILOT AREA 4	CONCRETE	SEALER	-	-	CONCRETE DECK	PAINT	6475	GLAZED BLOCK	-	GLAZED BLOCK/ CONC. BLOCK	PAINT	CEMENT BOARD	PAINT	CEMENT BOARD	PAINT	
205	CORRIDOR	CONCRETE	SEALER	-	-	CONCRETE DECK	PAINT	6475	GLAZED BLOCK	-	CEMENT BOARD	PAINT	CEMENT BOARD	PAINT	GLAZED BLOCK	-	
206	CORRIDOR	CONCRETE	SEALER	-	-	CONCRETE DECK	PAINT	6475	CEMENT BOARD	PAINT	CEMENT BOARD	PAINT	-	-	GLAZED BLOCK	-	
207	HALL	CONCRETE	SEALER	-	-	CONCRETE DECK	PAINT	6475	CEMENT BOARD	PAINT	GLAZED BLOCK	-	CEMENT BOARD	PAINT	-	-	
208	ELEC. ROOM	CONCRETE	SEALER	-	-	CONCRETE	PAINT	3494	GLAZED BLOCK/ CEMENT BOARD	PAINT	GLAZED BLOCK	-	CEMENT BOARD	PAINT	CEMENT BOARD	PAINT	
209	VESTIBULE	CONCRETE	SEALER	-	-	CONCRETE DECK	PAINT	6475	CEMENT BOARD	PAINT	GLAZED BLOCK	-	GLAZED BLOCK	-	GLAZED BLOCK	-	
210	EX. STAIRWELL	CONCRETE	-	-	-	CONCRETE DECK	-	-	GLAZED BLOCK	-	GLAZED BLOCK	-	GLAZED BLOCK	-	GLAZED BLOCK	-	EXISTING
211	EX. STAIRWELL	CONCRETE	-	-	-	CONCRETE DECK	-	-	GLAZED BLOCK	-	GLAZED BLOCK	-	GLAZED BLOCK	-	GLAZED BLOCK	-	EXISTING
212	EX. CONTROL ROOM	CONCRETE	SEALER	-	-	CONCRETE DECK	PAINT	6475	GLAZED BLOCK/ CONC. BLOCK	PAINT	CONC. BLOCK	PAINT	CONC. BLOCK	PAINT	CONC. BLOCK	PAINT	EXISTING
213	MEZZANINE	CONCRETE	SEALER	-	-	CONCRETE DECK	PAINT	2665	GLAZED BLOCK	-	GLAZED BLOCK	-	CEMENT BOARD	PAINT	-	-	
214	MEZZANINE	CONCRETE	SEALER	-	-	CONCRETE DECK	PAINT	2665	CEMENT BOARD	PAINT	GLAZED BLOCK	-	CEMENT BOARD	PAINT	CEMENT BOARD	PAINT	
215	ELEC. ROOM MEZZANINE	CONCRETE	SEALER	-	-	CONCRETE DECK	PAINT	2665	CEMENT BOARD	PAINT	GLAZED BLOCK	-	CEMENT BOARD	PAINT	CEMENT BOARD	PAINT	

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NOTES:  
1. REPAIR ALL EXISTING CONCRETE BLOCK WALLS AS NECESSARY PRIOR TO PAINTING.

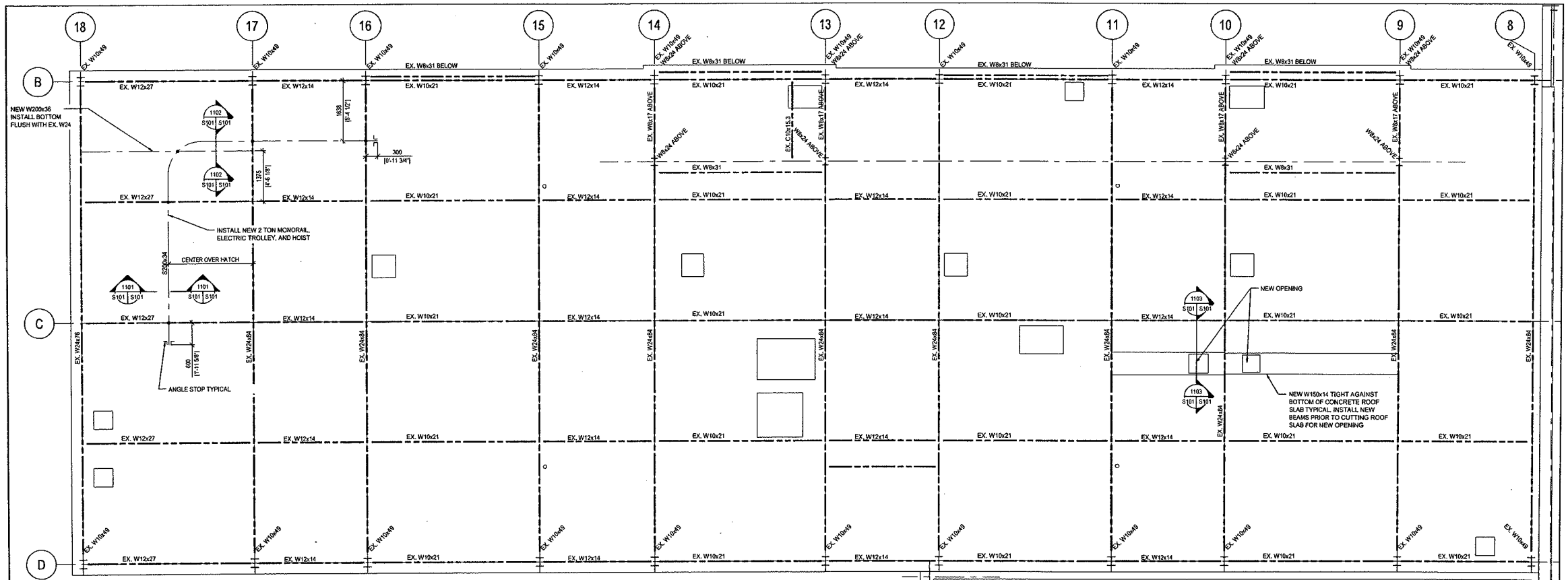
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					DESIGN	01	1	2008-03-10	STANTEC	CONSULTANT OR DESIGN		ROOM & DOOR FINISH SCHEDULE, DOOR ELEVATIONS & DETAILS	ES1721
					CHECKED	02							A601
					APPROVED	03							
					DRAWN	04							
					DATE	05							
					BY	06							

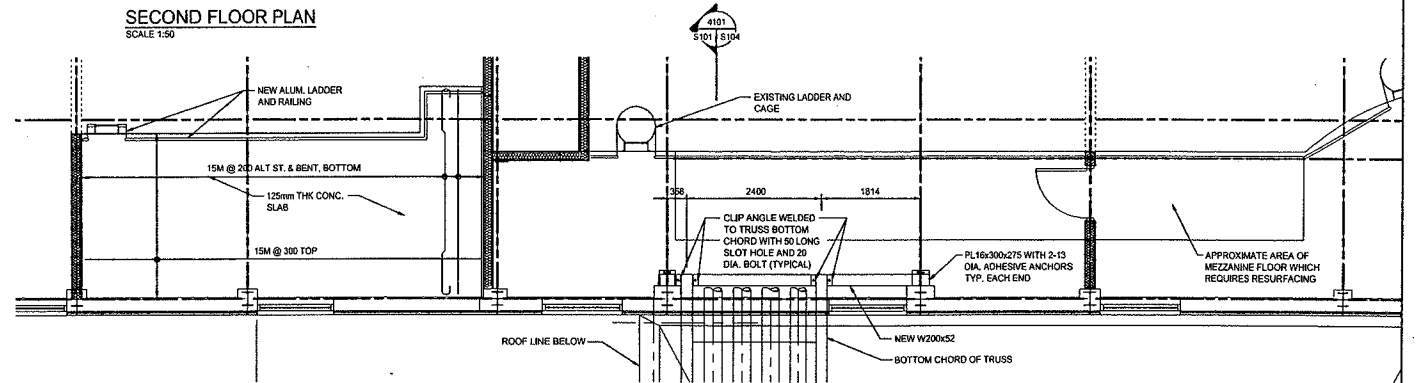
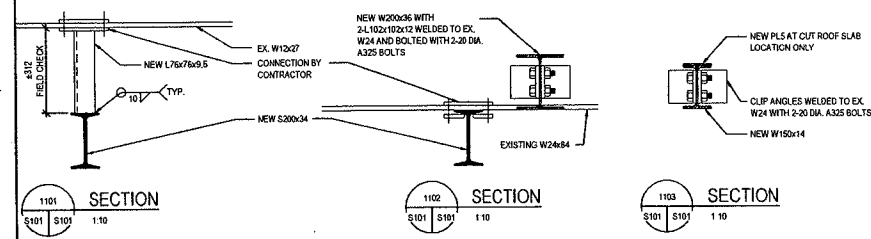
Stantec Consulting Ltd.  
171 Queens Avenue  
London ON Canada  
N6A 5J7  
Tel: 519.645.2007  
Fax: 519.645.6575  
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ROOM & DOOR FINISH SCHEDULE,  
DOOR ELEVATIONS & DETAILS



SECOND FLOOR PLAN  
SCALE 1:50



MEZZANINE PLAN  
SCALE 1:50

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EXISTING SERVICES	DRAWING & SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT
					24 INCH DIA.	1	W200x36 W/ 24 INCH DIA. BOLTS	12-23	STANTEC
					CONCRETE				
					APPROXIM.				
					DATE			12-23	



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London ON Canada  
N6A 5J7  
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ENGINEER'S STAMP

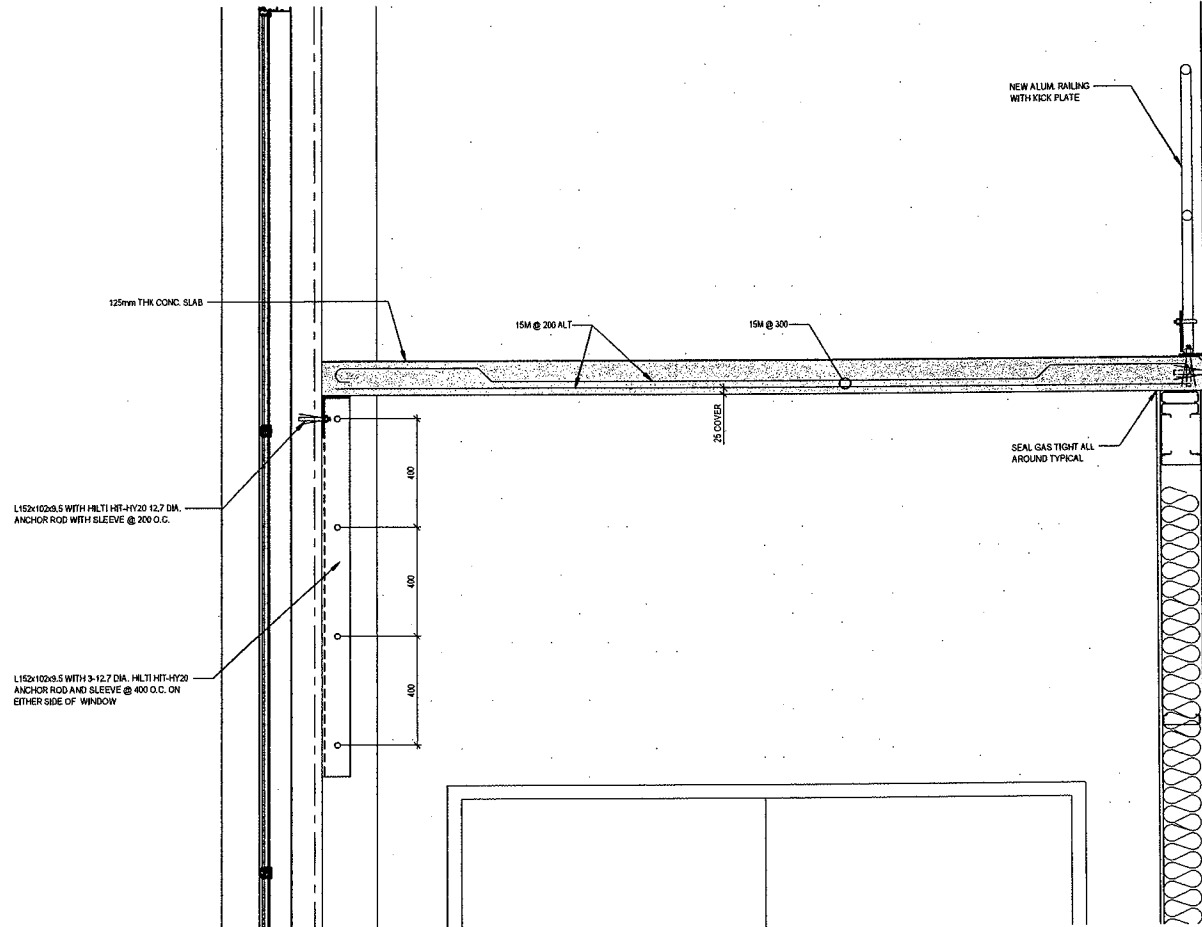


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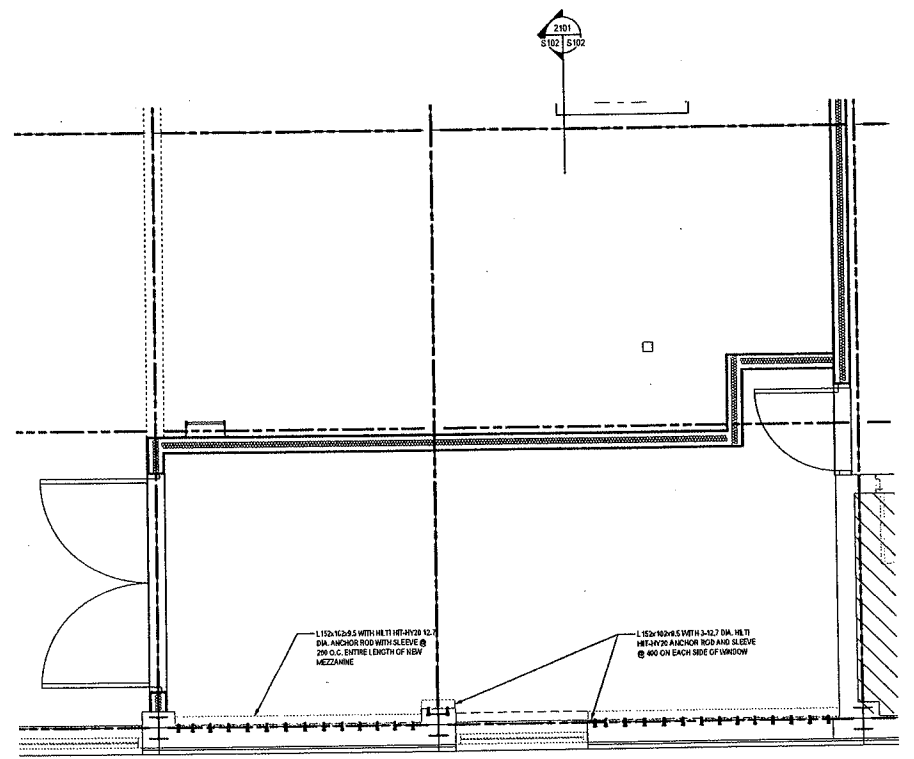
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TITLE  
SOWC-LWF  
GREENWAY POLLUTION CONTROL CENTRE  
ROOF FRAMING PLAN

PROJECT NO.  
ES1721  
SHEET NO.  
S101  
DATE



2101 SECTION  
S102 S102 1:10



PARTIAL FLOOR PLAN  
SCALE 1:30

2101  
S102 S102

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EXISTING SERVICES	DRAWING # SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT
					9'-50"	01		0-22	STANTEC
					5'-00"	02		0-22	STANTEC
					4'-00"	03		0-22	STANTEC
					3'-00"	04		0-22	STANTEC
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					1'-00"	06		0-22	STANTEC
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						30		0-22	STANTEC

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171 Queens Avenue  
London ON Canada  
N6A 5J7  
Tel: 519.645.2007  
Fax: 519.645.6575  
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Project No. 10550728

ENGINEER'S SEAL

**CORPORATION OF THE CITY OF LONDON**

SCALE

1 : 50

FILE

SOWC-LWF  
GREENWAY POLLUTION CONTROL CENTRE

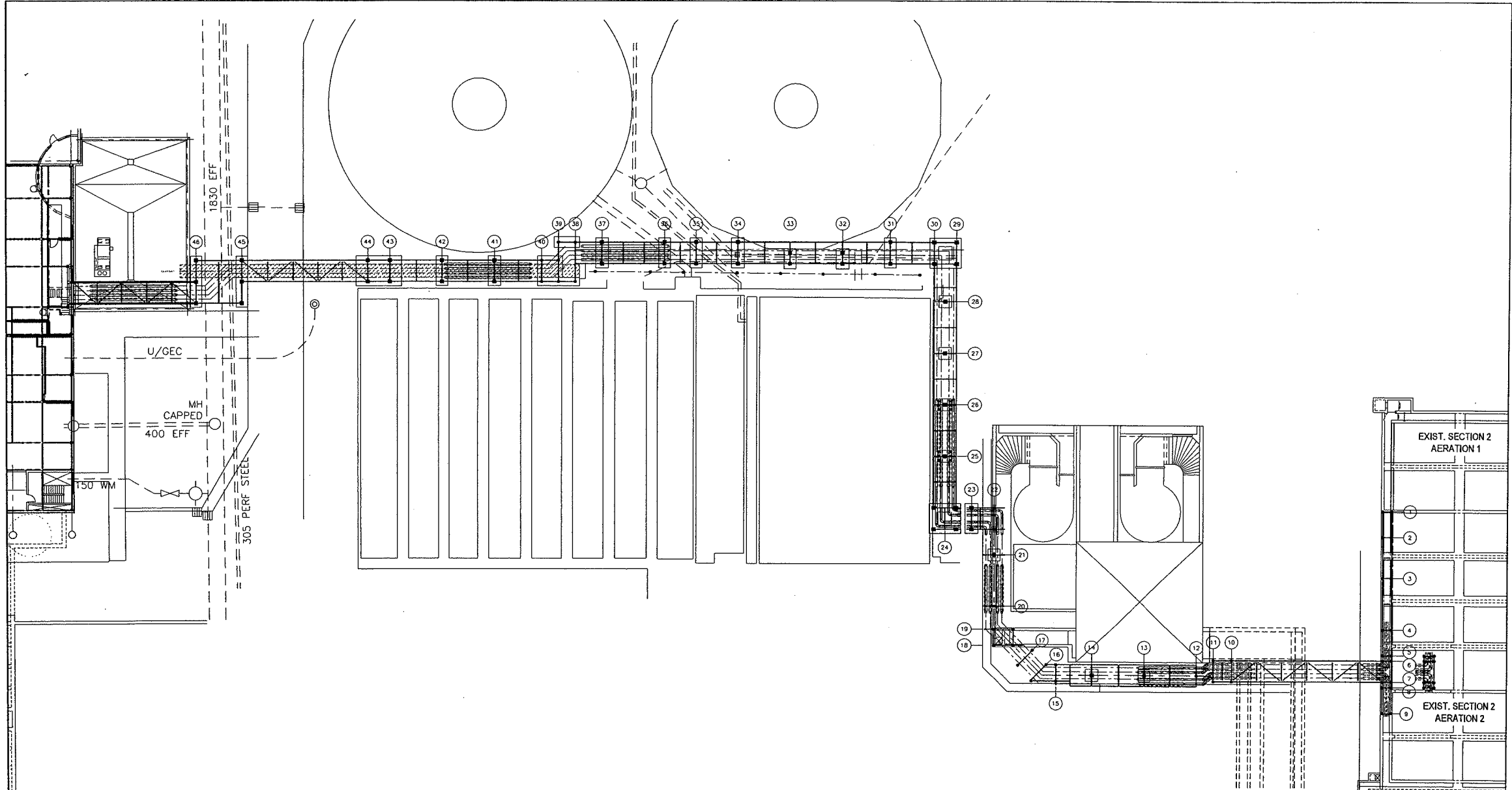
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SHEET # S102

PLANNED BY

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EXISTING SERVICES	DRAWING # & SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION

DETAILS	No.	REVISIONS	DATE	CONSULTANT
REVISION	1	SHARED JOB REVIEW	2/23/22	SYRICK
DRAWING	BY			
DESIGNED	BY			
CHECKED	BY			
DATE	2/23/22			
BY	SYRICK			

Project No. 185500726




**Stantec Consulting Ltd.**  
 171 Queens Avenue  
 London ON Canada  
 N6A 5J7  
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**CORPORATION OF THE CITY OF LONDON**  
 LONDON CANADA

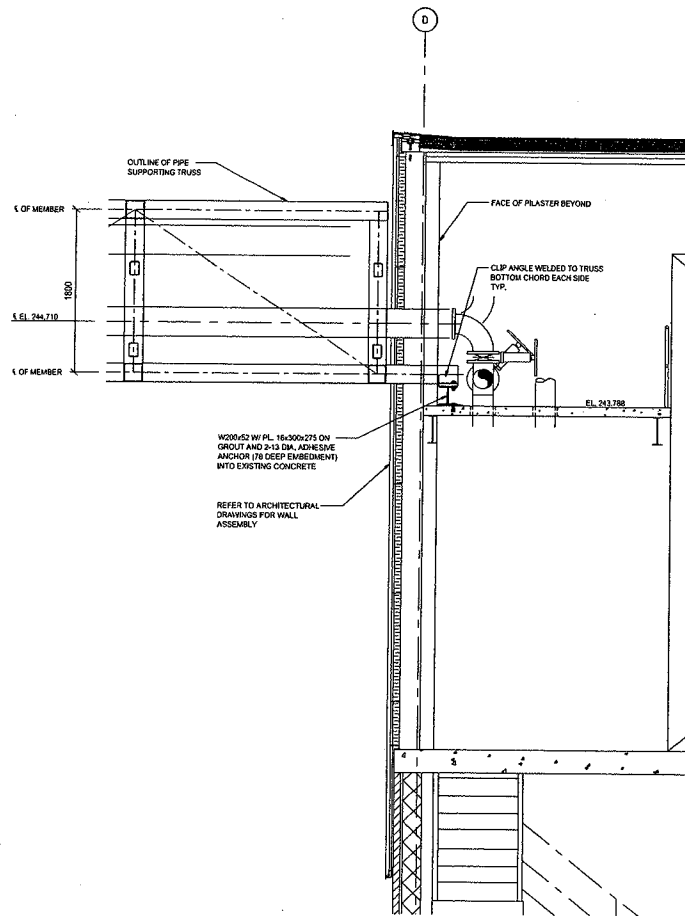
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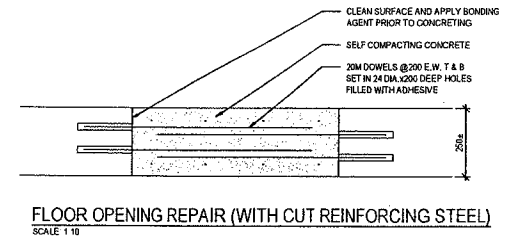
**SOWC-LWF  
 GREENWAY POLLUTION CONTROL CENTRE**

**PROCESS PIPE SUPPORTS  
 OVERALL PLAN**

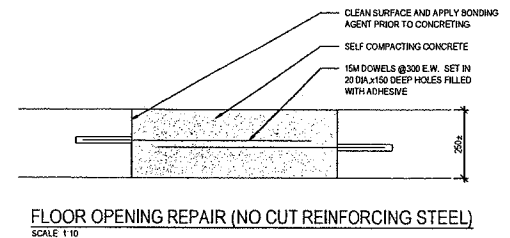
PROJECT NO. ES1721  
 SHEET NO. S103  
 DATE/REV.



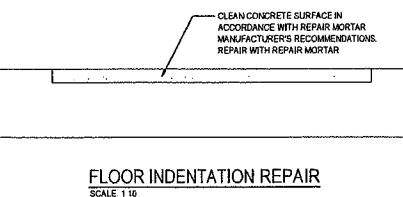
4101 SECTION  
S104 | S104 1:30



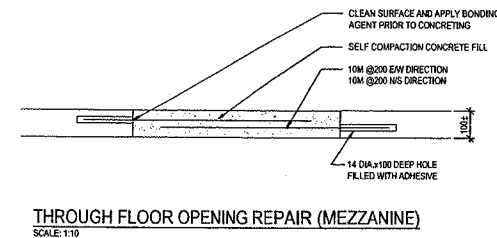
FLOOR OPENING REPAIR (WITH CUT REINFORCING STEEL)  
SCALE: 1:10



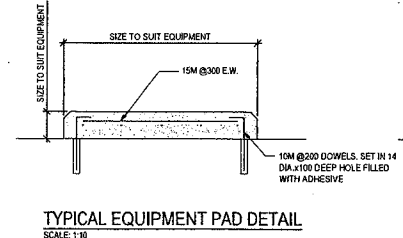
FLOOR OPENING REPAIR (NO CUT REINFORCING STEEL)  
SCALE: 1:10



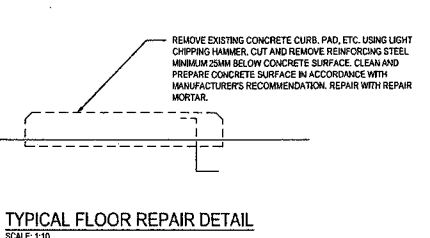
FLOOR INDENTATION REPAIR  
SCALE: 1:10



THROUGH FLOOR OPENING REPAIR (MEZZANINE)  
SCALE: 1:10




TYPICAL EQUIPMENT PAD DETAIL  
SCALE: 1:10



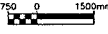
TYPICAL FLOOR REPAIR DETAIL  
SCALE: 1:10

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EXISTING SERVICES	DRAWING # SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE (M/D/Y)	CONSULTANT
					BLDG	01	ISSUED FOR CONSTRUCTION	07/24	STANTEC
					CONSTR	02			
					CHANGES	03			
					ADDITIONS	04			
					DELS	05			

  
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 171 Queens Avenue  
 London ON Canada  
 N6A 5J7  
 Tel: 519.645.2007  
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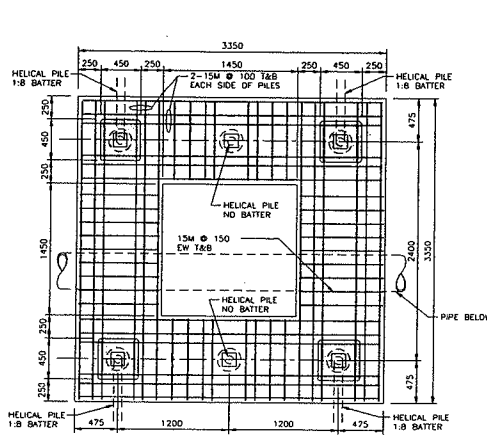
  
**CORPORATION OF THE CITY OF LONDON.**

SCALE: 1:75  


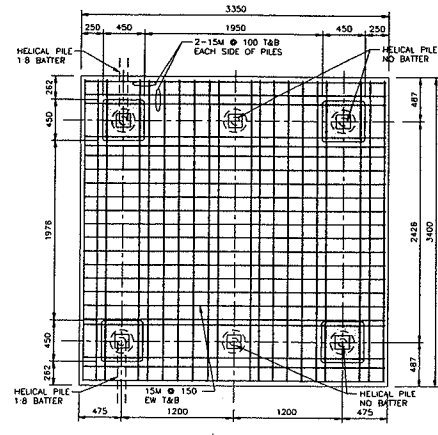
PROJECT: ES1721  
 SHEET: S104  
 PROJECT TITLE: STRUCTURAL FRAMING PLAN AND SECTION

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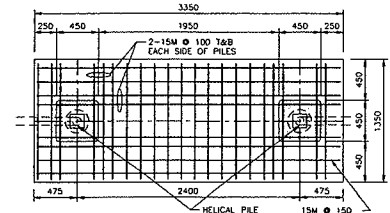




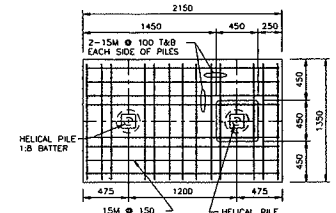
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 HELICAL PILES:  
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 AXIAL TENSION LOAD - 150kN ULS/PILE  
 LATERAL LOAD - 15 kN ULS/PILE



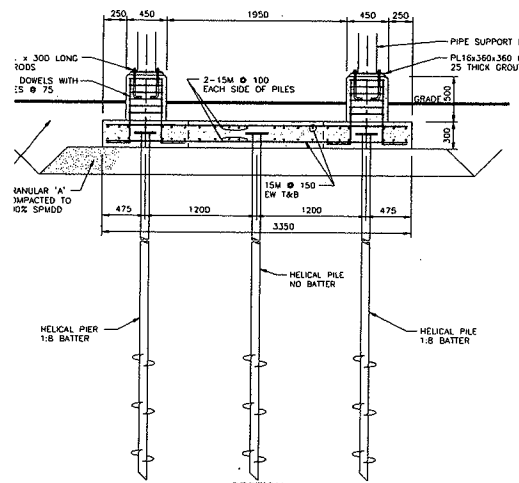
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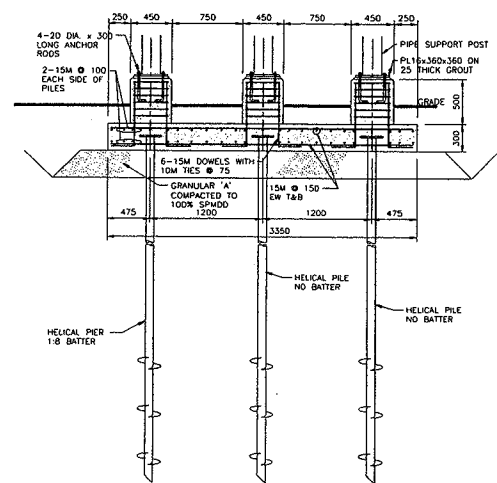
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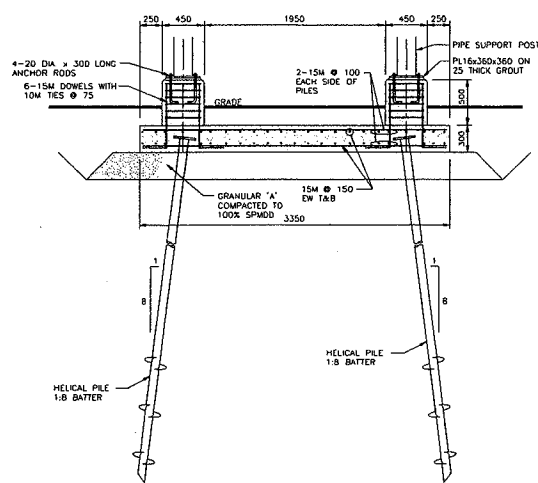
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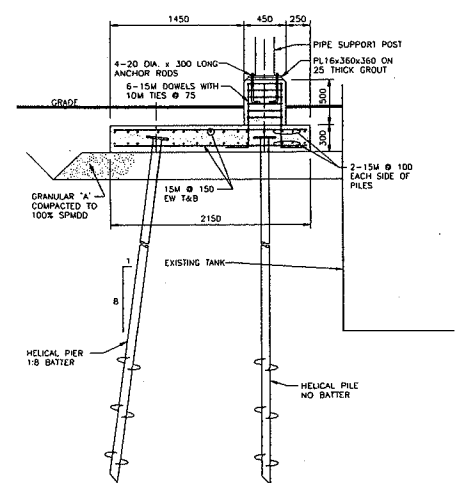
**SECTION**  
 SUPPORT BASE PLAN FOR GRIDS 24 & 29, 30  
 SCALE 1:30



**SECTION**  
 SUPPORT BASE PLAN FOR GRIDS 43 & 44  
 SCALE 1:30



**SECTION**  
 SUPPORT BASE PLAN FOR GRIDS 31, 34, 35, 36, 37, 41 & 42  
 SCALE 1:30



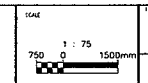
**SECTION**  
 SUPPORT BASE PLAN FOR GRIDS 32 & 33  
 SCALE 1:30

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					04/20/08	01	ISSUED FOR PERMIT REVIEW	01/21/09	SL/STC	
					04/22/08	02				
					07/20/09	03				
					04/11/09	04				

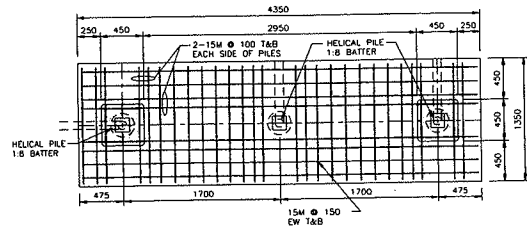


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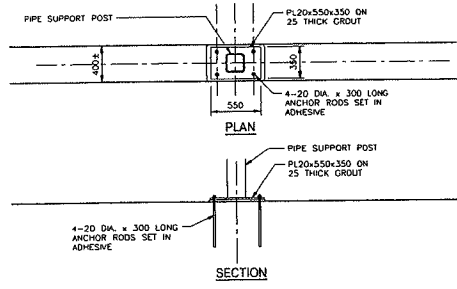


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PROJECT NO. ES1721  
 SHEET NO. S106  
 DRAWING TITLE: TRESTLE BASE PLANS  
 PROJECT: SOWC-LWF GREENWAY POLLUTION CONTROL CENTRE

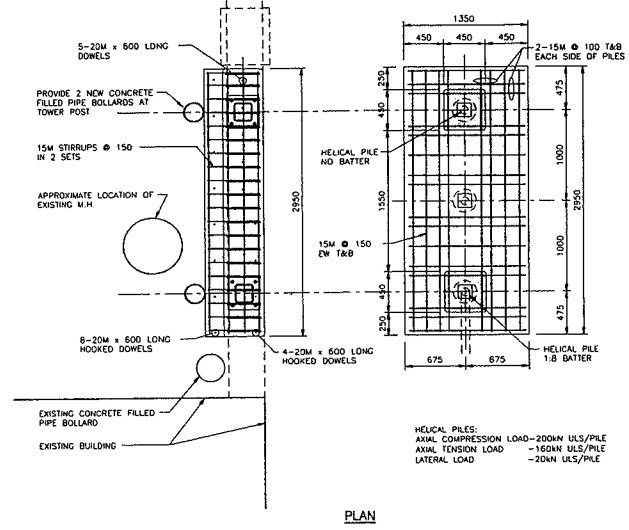


PLAN  
HELICAL PILES:  
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AXIAL TENSION LOAD - 130KN ULS/PILE  
LATERAL LOAD - 70KN ULS/PILE



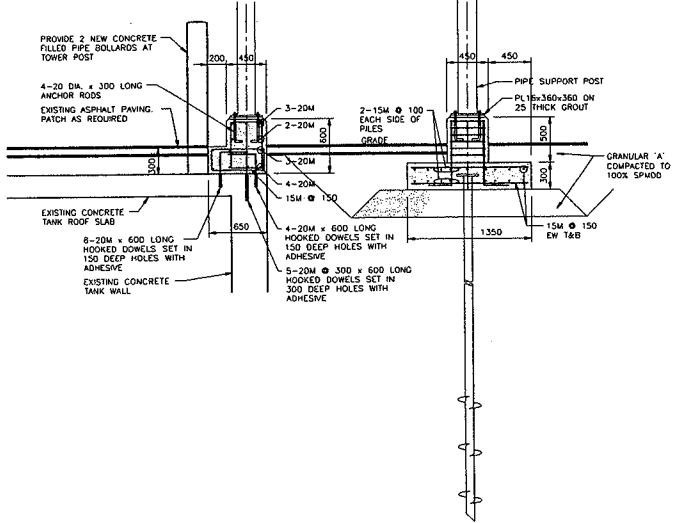
SECTION

SUPPORT BASE FOR GRID 20 & 21  
SCALE 1:30



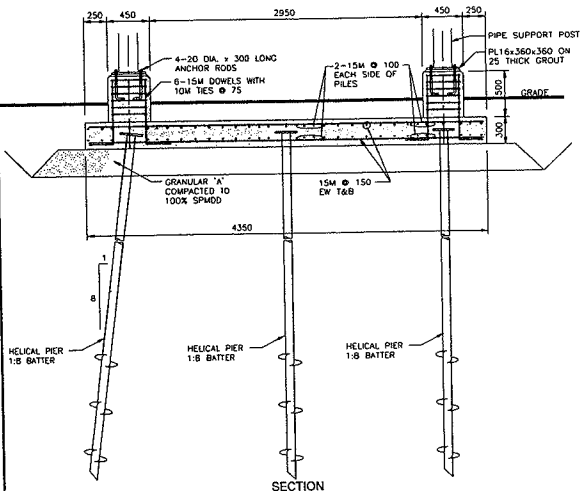
HELICAL PILES:  
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AXIAL TENSION LOAD - 160KN ULS/PILE  
LATERAL LOAD - 20KN ULS/PILE

PLAN



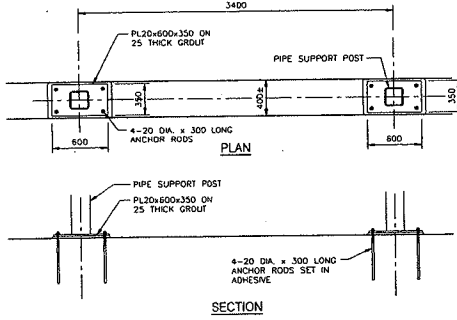
SECTION

SUPPORT BASE PLAN FOR  
GRID 10 & 11  
SCALE 1:30



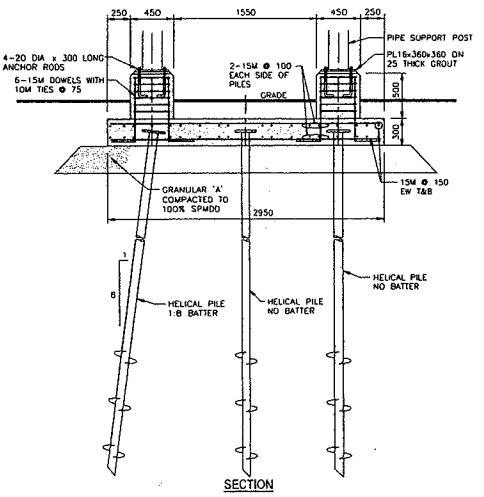
SECTION

SUPPORT BASE PLAN FOR GRID 23  
SCALE 1:30



SECTION

SUPPORT BASE FOR GRID 22  
SCALE 1:30



SECTION

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EXISTING SERVICES	DRAWING & SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION

DETAILS	NL	REVISIONS	DATE	CONSULTANT	CONSULTANT'S DRAWING
DESIGN	01	1	1/2/07	STANLEC	
DRAWING	02				
CHECKED	03				
APPROVED	04				
DWG	05				
	06				

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N6A 5J7  
Tel: 519.645.2007  
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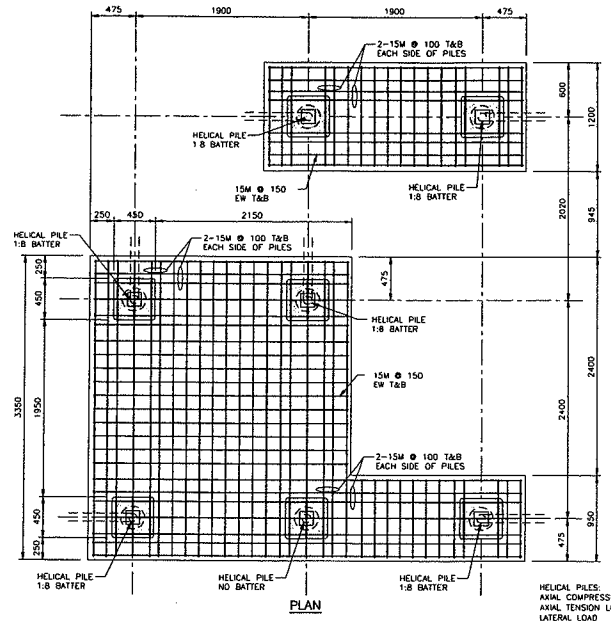
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SCALE 1 : 75  
750 0 1500mm

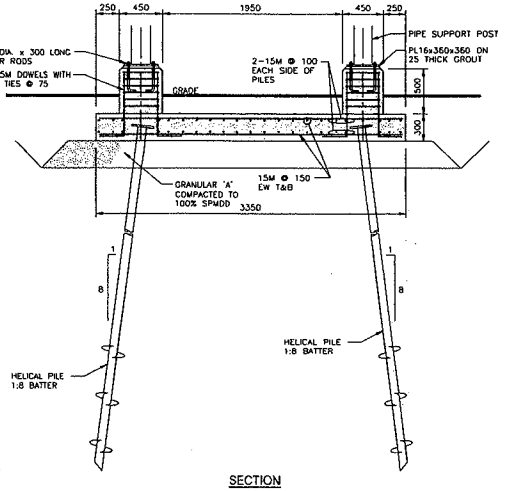
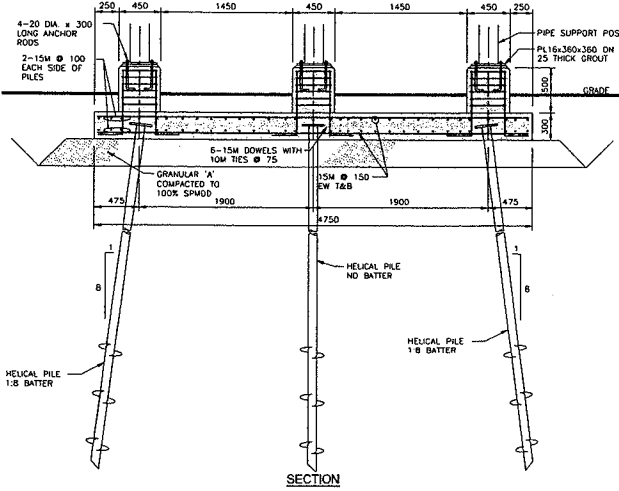
SOWC-LWF  
GREENWAY POLLUTION CONTROL CENTRE  
TRESTLE BASE PLANS

PROJECT: ES1721  
PLAN No: S107

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 AXIAL TENSION LOAD - 160kN ULS/PILE  
 LATERAL LOAD - 20kN ULS/PILE



SUPPORT BASE PLAN FOR  
 GRIDS 38, 39 & 40  
 SCALE 1:30

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					DESIGN	04	1	15/08/2014	STANTEC
					DRAWING	02			
					ENGINEER	04			
					APPROVED	12			
					DATE	12/10/14			

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 Tel: 519.645.2007  
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Project No: 140500726

ENGINEER'S STAMP



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SCALE

TITLE

SOWC-LMF  
 GREENWAY POLLUTION CONTROL CENTRE

TRESTLE BASE PLANS

PROJECT NO.

ES1721

Sheet No.

S108

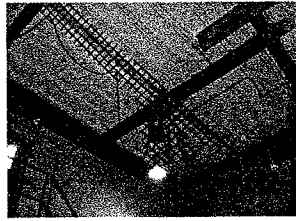
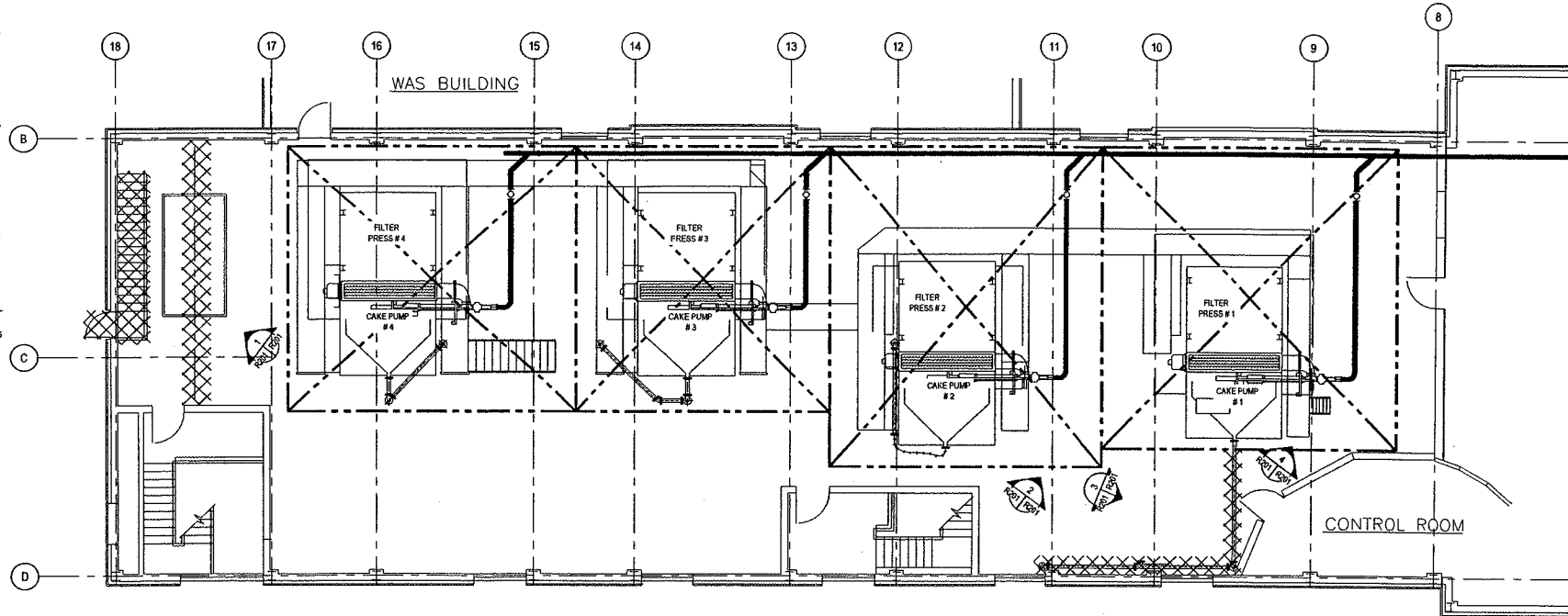
PLANTING NO.

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DEMOLITION DRAWING NOTES

UPPER FLOOR LEVEL:

1. REMOVE AND DISPOSAL OF ALL FOUR (4) EXISTING SLUDGE FILTER PRESSES, AND FOUR (4) SLUDGE CAKE PUMPS.
2. REMOVE AND DISPOSAL OF ALL PIPING AND VALVES ASSOCIATED WITH ABOVE EQUIPMENT FROM THIS AREA TO BELOW FLOOR LEVEL. ALL PIPES THROUGH FLOOR SHALL BE CUT FLUSH WITH TOP AND BOTTOM OF FLOOR SLAB INCLUDING PIPE SLEEVES. THESE PIPES AND SLEEVES SHALL BE PLUGGED WITH NON-SINK GROUT FLUSH WITH FLOOR ON BOTH SIDES.
3. ALL CONCRETE EQUIPMENT PADS AND CURBS SHALL BE REMOVED TO CONCRETE FLOOR SURFACE AND REPAIRED TO ACCEPT NEW FLOOR TOPPING AS PER SECTION 03300. CONTRACTOR SHALL DESPOSE OF ALL CONCRETE AND STEEL.
4. CONTRACTOR TO REMOVE AND DISPOSE OF ALL PLATFORMS, STAIRS AND MISC. METAL ASSOCIATED WITH THE ABOVE EQUIPMENT IN ITEM #1.
5. REMOVE EXISTING HOIST, MONORAIL, AND HAND RAIL FOR THE EQUIPMENT HATCH LIFTING BAY/HOIST AND TROLLEY TO BE TURNED OVER TO THE CITY OF LONDON. ALL OTHER MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR.
6. REMOVE ALL ELECTRICAL INSTRUMENTATION, CONTROLS, CABLE TRAY, AND CONDUITS ASSOCIATED WITH ITEM 1 AND 4 ABOVE.
7. REMOVE ALL HYDRAULIC SUPPLY AND RETURN PIPING FROM THE CAKE PUMP HYDRAULIC POWER PACKS LEVEL BELOW TO CAKE PUMP ON THIS LEVEL.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING, REMOVING AND DISPOSAL OF ALL HYDRAULIC FLUIDS. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP ANY FLUIDS SPILLS THAT MAY LEAK DURING THE REMOVAL OF EQUIPMENT.
9. REMOVAL AND DISPOSAL OF STAIRS INSIDE ON THE SOUTH WALL AND STAIRS AND PLATFORM ACCESS TO TOP OF TANK AND ROOF ON THE OUTSIDE OF THE BUILDING.



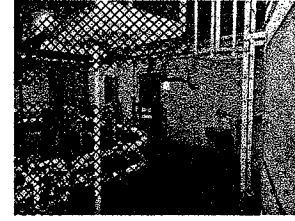
1  
R201 | R204



2  
R201 | R204



3  
R201 | R204



4  
R201 | R204

PLAN ABOVE EL. 240.03

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EXISTING SERVICES	DRAWING & SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION

DETAILS	No.	REVISIONS	DATE	CONSULTANT
DESIGN	001	1	04/02/2007	STANTEC
TRAINED	001			
CHECKED	1000			
APPROVED				
DRAWN				

CONSULTANT OF RECORD

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171 Queens Avenue  
London ON Canada  
N6A 5J7  
Tel: 519.845.2007  
Fax: 519.845.6575  
www.stantec.com

Project No. 16300728

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London CANADA

SCALE

1 : 75  
750 0 1500mm

PROJECT TITLE

SOWC-LWF  
GREENWAY POLLUTION CONTROL CENTRE  
PIPE / EQUIPMENT REMOVALS  
PROCESS AND ELECTRICAL

PROJECT NO.

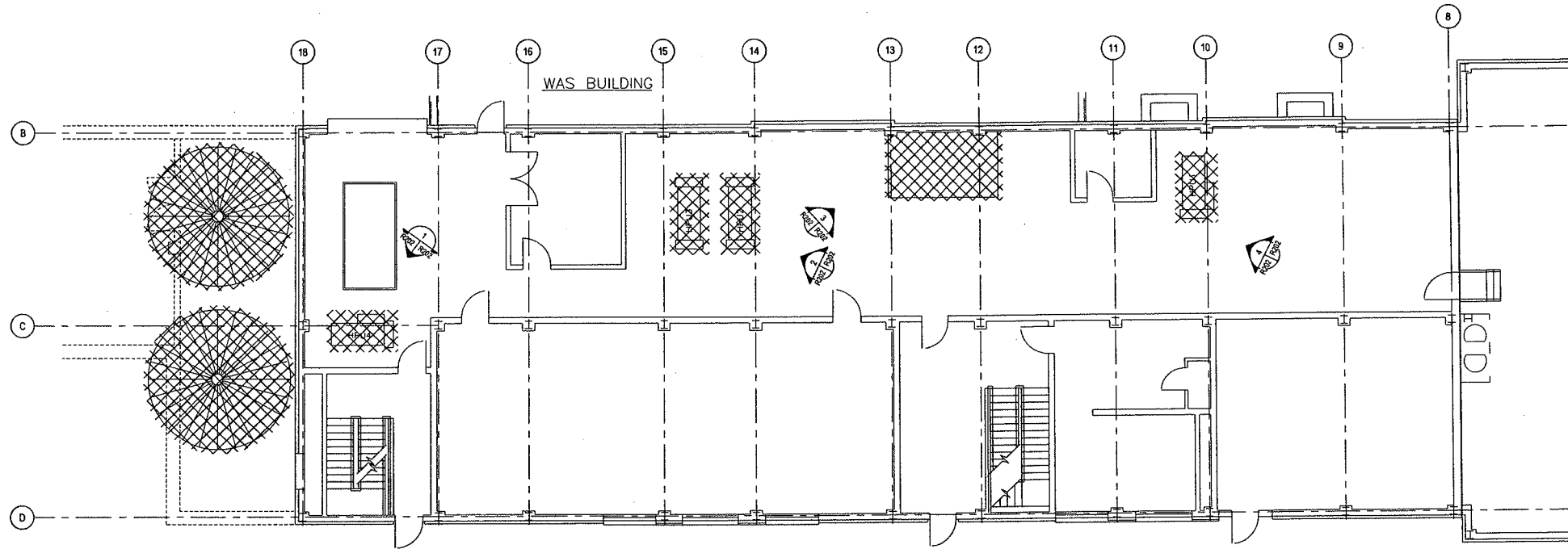
ES1721

SHEET NO.

R101

PLANT/ETA

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PLAN ABOVE EL. 235.76

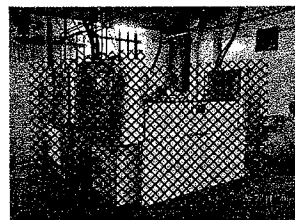
**DEMOLITION DRAWING NOTES**

**MAIN FLOOR LEVEL:**

1. REMOVE AND DISPOSAL ALL FOUR (4) CAKE PUMP HYDRAIC POWER PACKS (8-SDW-SCP1 THROUGH 8-SDW-SCP-4).
2. REMOVE ALL HYDRAIC SUPPLY AND RETURN PIPING FROM THE CAKE PUMP HYDRAIC POWER PACKS ON THIS LEVEL TO CAKE PUMP ON THE ABOVE LEVEL.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING, REMOVING AND DISPOSAL OF ALL HYDRAIC FLUIDS. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP ANY FLUIDS SPILLS THAT MAY LEAK DURING THE REMOVAL OF EQUIPMENT.
4. REMOVE AND DISPOSAL OF TWO (2) EXISTING CHEMICAL TANKS AND ASSOCIATED PIPING, PUMPS, AND PLATFORM.
5. ALL CONCRETE EQUIPMENT PADS AND CURBS SHALL BE REMOVED TO CONCRETE FLOOR SURFACE AND REPAIR TO MATCH EXISTING FLOOR AND TO THE CONTRACTOR ADMINISTRATORS ACCEPTANCE. CONTRACTOR SHALL DISPOSE OF ALL CONCRETE AND STEEL.
6. REMOVE ALL ELECTRICAL, INSTRUMENTATION, CONTROLS, CABLE TRAY, AND CONDUITS ASSOCIATED WITH ITEM 1 AND 4 ABOVE.
7. REMOVE FILTER PRESS DRAIN PIPING, FLOOR DRAIN HEAD PIPING, EFFLUENT FLUSHING WATER PIPING AND OTHER PIPING IN THIS AREA TO SUIT THE NEW PIPING REQUIREMENTS ON THE "P" DRAWINGS. SEE PHOTOS ON DRAWING "D-XXX" FOR AREA OF REMOVALS. CONTRACTOR SHALL COORDINATE WITH THE CONTRACT ADMINISTRATOR AND CITY OF LONDON STAFF BEFORE REMOVING ANY PIPING. ALL PIPING SHALL BE CAPPED TO PREVENT ANY FLUIDS FOR FLOWING OUT OF THE PIPE UNIT BLIND FLANGED AT CONNECTION POINTS.
8. REMOVE AND DISPOSAL OF TWO (2) EXISTING INSULATED STEEL PULP TANKS THAT ARE LOCATED OUTSIDE ON THE SOUTH SIDE OF THE BUILDING. THE SUPPORT LEGS, THE CONE TANK BOTTOMS, AND SOME PIPING ARE BURIED BELOW. CONTRACTOR SHALL EXCAVATE AND REMOVE ALL TANK SUPPORTS AND CONTOURIVE SUPPORTS TO SUIT INSTALLATION OF NEW TANKS. EXCAVATED MATERIAL SHALL BE DISPOSED BY THE CONTRACTOR AS INSTRUCTED BY THE CONTRACT ADMINISTRATOR.



1 R202 | R202



2 R202 | R202



3 R202 | R202



4 R202 | R202

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					25-02	1	ISSUED FOR PERMITS	12/19	STANTEC
					25-02				
					25-02				
					25-02				
					25-02				
					25-02				

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171 Queens Avenue  
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N6A 5J7  
Tel: 519.645.2007  
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London CANADA

SCALE

1 : 75

SOWC-LWF  
GREENWAY POLLUTION CONTROL CENTRE

**PIPE / EQUIPMENT REMOVALS  
PROCESS AND ELECTRICAL**

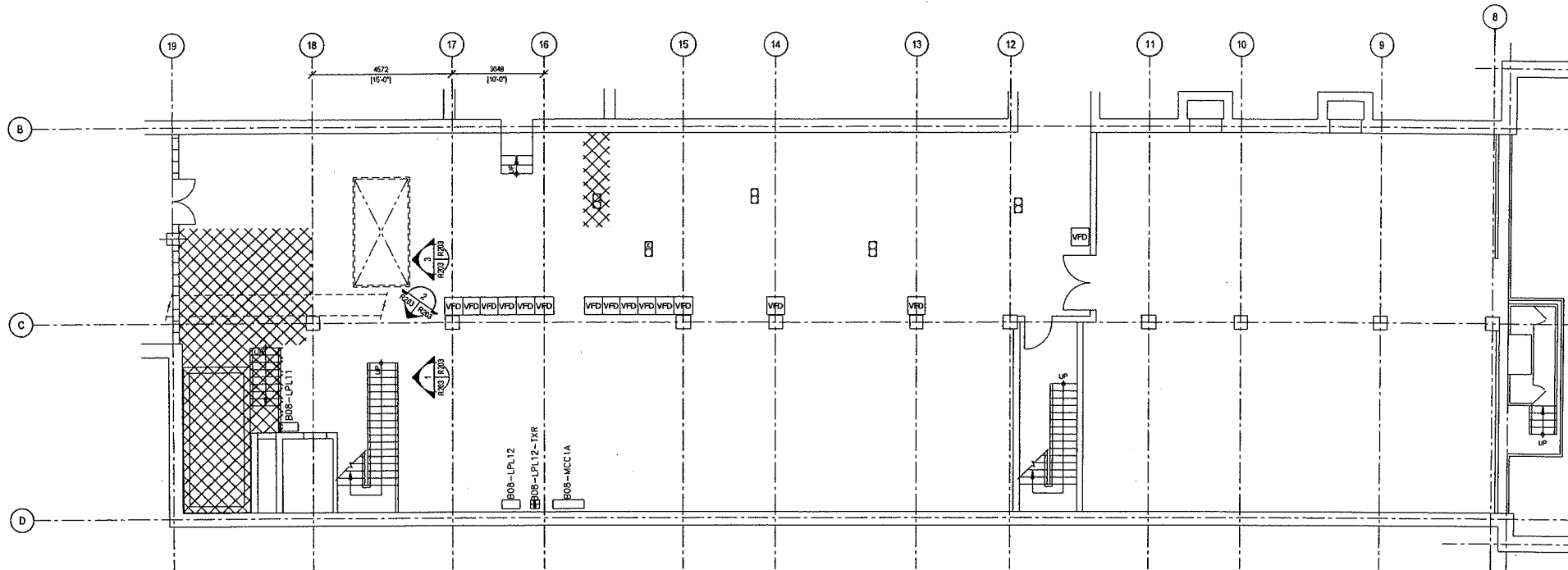
PROJECT: ES1721

DATE: R202

REVISED:

DRAWING NO. 25-02-1001





**DEMOLITION DRAWING NOTES**

**LOWER (BASEMENT) LEVEL:**

1. REMOVE TWO (2) PULP PUMPS (8-SDW-PRP1 AND 8-SDW-PRP2). PUMPS SHALL BE TURNED OVER TO CITY OF LONDON.
2. REMOVE ALL MIXING EQUIPMENT IN THE PULP TANK EAST OF THE ABOVE PUMPS. MIXERS SHALL BE TURNED OVER TO CITY OF LONDON.
3. REMOVE AND DISPOSAL OF CONCRETE PULP TANK WALLS AS SHOWN TO ALLOW INSTALLATION OF NEW PUMPS. WALL SHALL BE SAW CUT TO PROVIDE SMOOTH EXPOSED SURFACE OR FARGED TO PROVIDE SUITABLE SMOOTH SURFACE. ALL REMAINING TANK WALLS SHALL BE CLEANED OF PULP RESIDUE.
4. ALL CONCRETE EQUIPMENT PADS AND CURBS SHALL BE REMOVED TO CONCRETE FLOOR SURFACE AND REPAIRD TO MATCH EXISTING FLOOR AND TO THE CONTRACTOR ADMINISTRATORS ACCEPTANCE. CONTRACTOR SHALL DISPOSE OF ALL CONCRETE AND STEEL.
5. REMOVE ALL ELECTRICAL INSTRUMENTATION, CONTROLS, CABLE TRAY, AND CONDUITS ASSOCIATED WITH ITEM 1 AND 2 ABOVE.
6. REMOVE AND DISPOSAL OF SLUDGE PUMP #4 (8-SDW-SFP4) DISCHARGES PIPING FROM TEE ON PUMP DISCHARGE HEADER TO PIPE SLEEVE THROUGH FLOW ABOVE. THE DISCHARGE TEE CONNECTION SHALL BE BLIND FLANGED WHEN PIPE IS REMOVED.



1  
R202 R203



2  
R202 R203



3  
R202 R203

PLAN ABOVE EL. 230.20



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EXISTING SERVICES	DRAWING # SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT
					REVISION	1	BASED ON VISUALS	10/20/20	STANTEC
					REVISED				

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 Tel: 519.845.2007  
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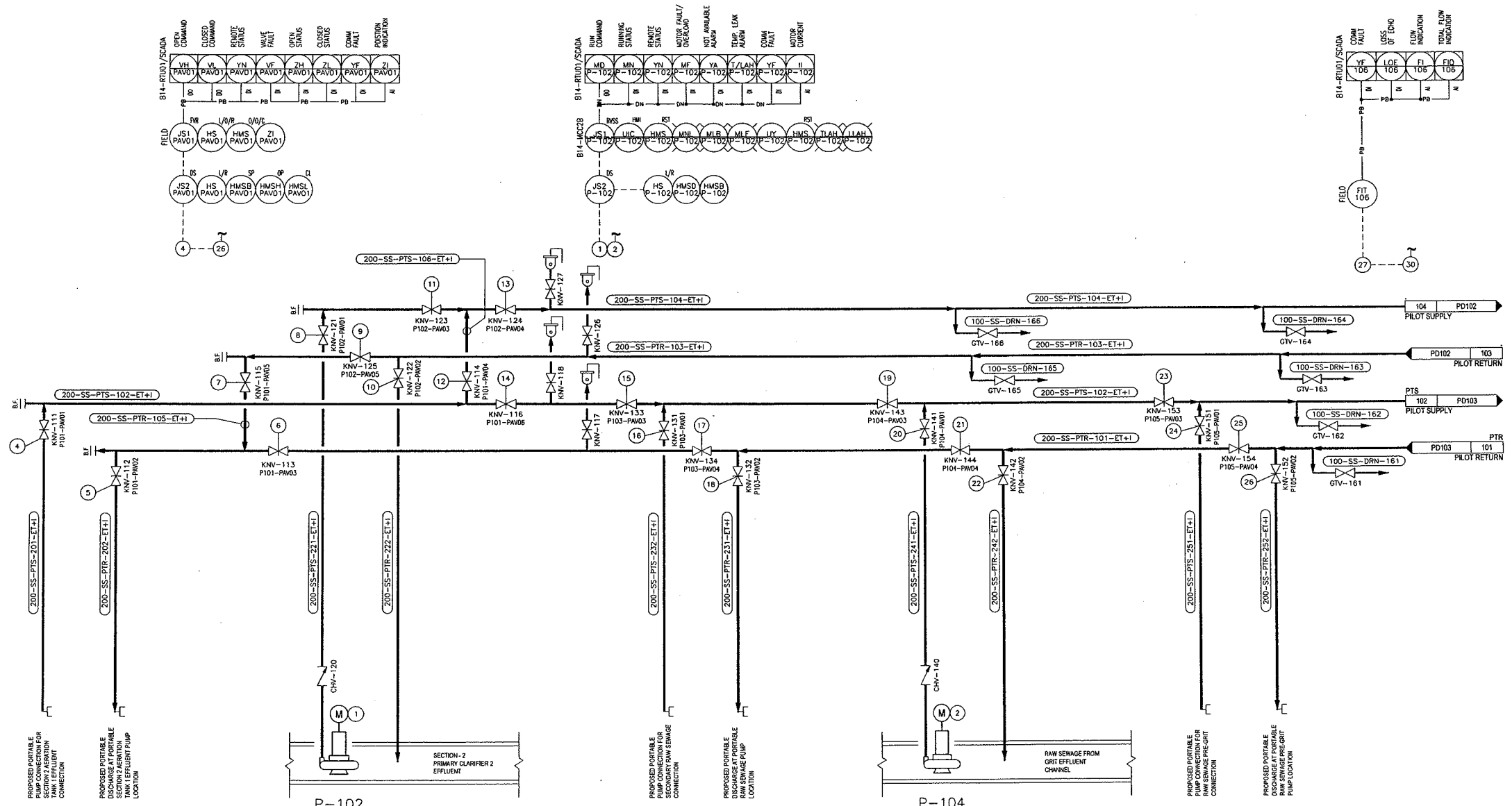
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**SOWC-LWF  
 GREENWAY POLLUTION CONTROL CENTRE**

**PIPE / EQUIPMENT REMOVALS  
 PROCESS AND ELECTRICAL**

ES1721  
 R203

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**P-101** NOTE  
P-101, P-103 AND P-105 ARE  
CONNECTION POINTS FOR  
PORTABLE PUMP SYSTEM


**P-103**

**P-105**

15/07/2018 10:52:29 AM C:\Users\james.m...  
 15/07/2018 10:52:29 AM C:\Users\james.m...

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					SECTION	NO.			
					REVISED				
					DATE				
					BY				
					APP. BY				


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NOT TO SCALE  
 SOWC-LWF  
 GREENWAY POLLUTION CONTROL CENTRE  
**P & ID**  
 PROCESS STREAMS  
 FROM EXISTING PLANT  
 165500726  
**PD101**

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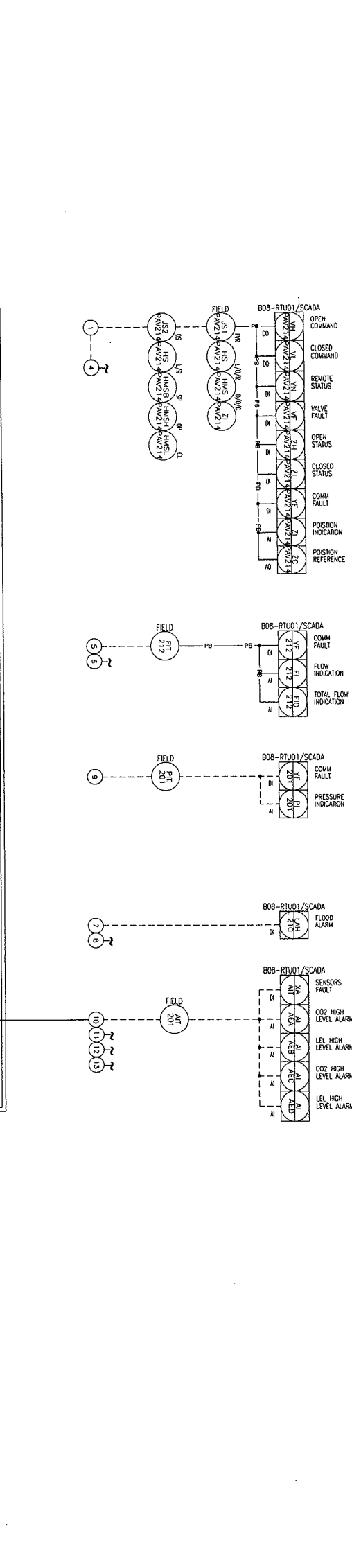
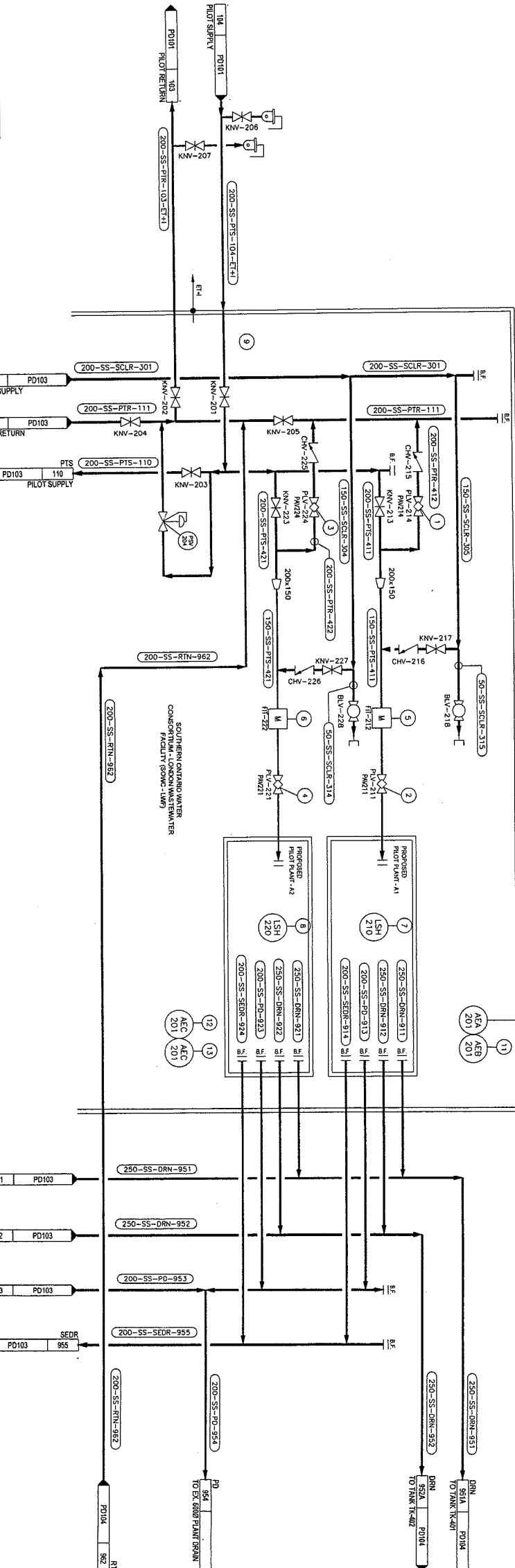
DRAWING SERVICES	DATE	AS CONSTRUCTED SERVICES	CONTRACT NO.	DETAILS	NO.	RESPONSE	DATE	CONTACT NAME

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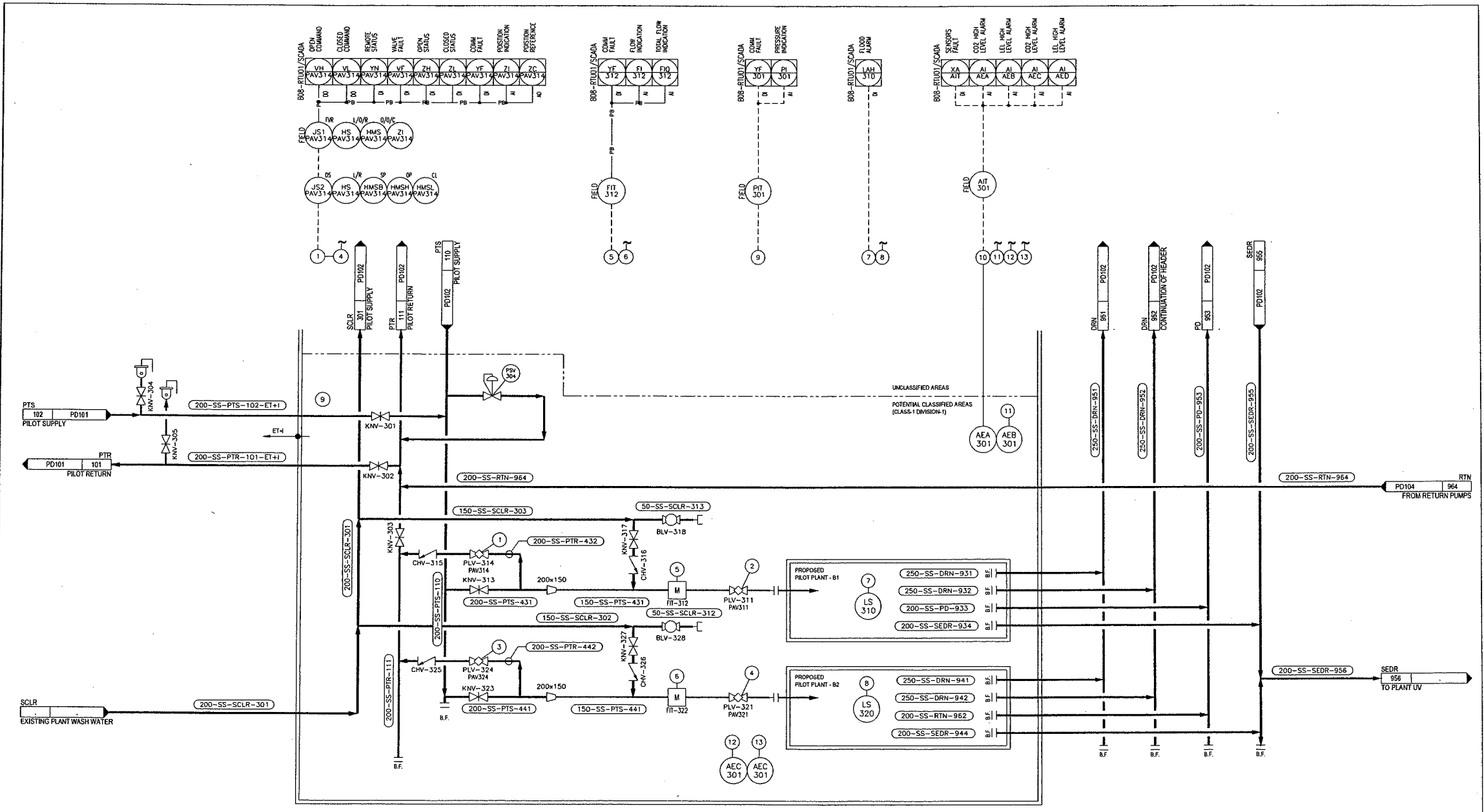
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NOT TO SCALE  
 SOUIC-LWF  
 GREENWAY POLLUTION CONTROL CENTRE  
 P & ID  
 PILOT PLANT  
 SUPPLY AND EFFLUENT PROCESS  
 16500178  
 PD102

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NO.	DESCRIPTION	FIELD	SCADA
1	OPEN COMMAND	RTU01	SCADA
2	CLOSED COMMAND	RTU01	SCADA
3	REMOTE STATUS	RTU01	SCADA
4	VALVE FAULT	RTU01	SCADA
5	OPEN STATUS	RTU01	SCADA
6	CLOSED STATUS	RTU01	SCADA
7	COMM FAULT	RTU01	SCADA
8	POSITION INDICATION	RTU01	SCADA
9	POSITION REFERENCE	RTU01	SCADA
10	COMM FAULT	RTU02	SCADA
11	FLOW INDICATION	RTU02	SCADA
12	TOTAL FLOW INDICATION	RTU02	SCADA
13	COMM FAULT	RTU03	SCADA
14	PRESSURE INDICATION	RTU03	SCADA
15	FLOOD ALARM	RTU03	SCADA
16	SENSORS FAULT	RTU03	SCADA
17	CO2 HIGH LEVEL ALARM	RTU03	SCADA
18	LEL HIGH LEVEL ALARM	RTU03	SCADA
19	CO2 HIGH LEVEL ALARM	RTU03	SCADA
20	LEL HIGH LEVEL ALARM	RTU03	SCADA



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					CHECK	443			
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					DRAWING	443			
					CHECK	443			

Project No. 165500726

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PROJECT NO. 165500726

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PROJECT NO. 165500726

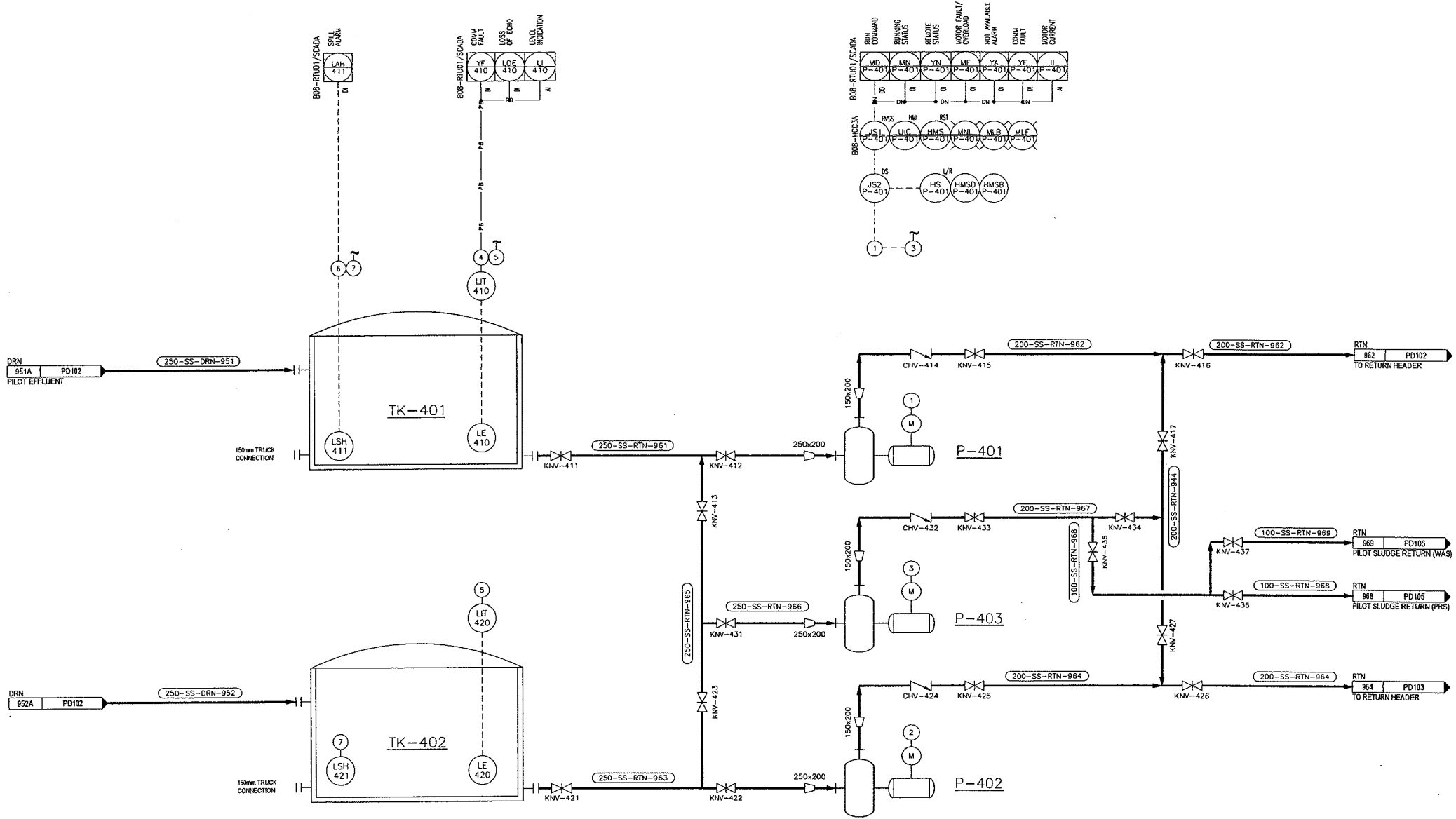
**SOWC-LWF**  
 GREENWAY POLLUTION CONTROL CENTRE

**P & ID**  
 PILOT PLANT EFFLUENT  
 DRAIN AND RETURN PUMPING

PROJECT NO. PD103

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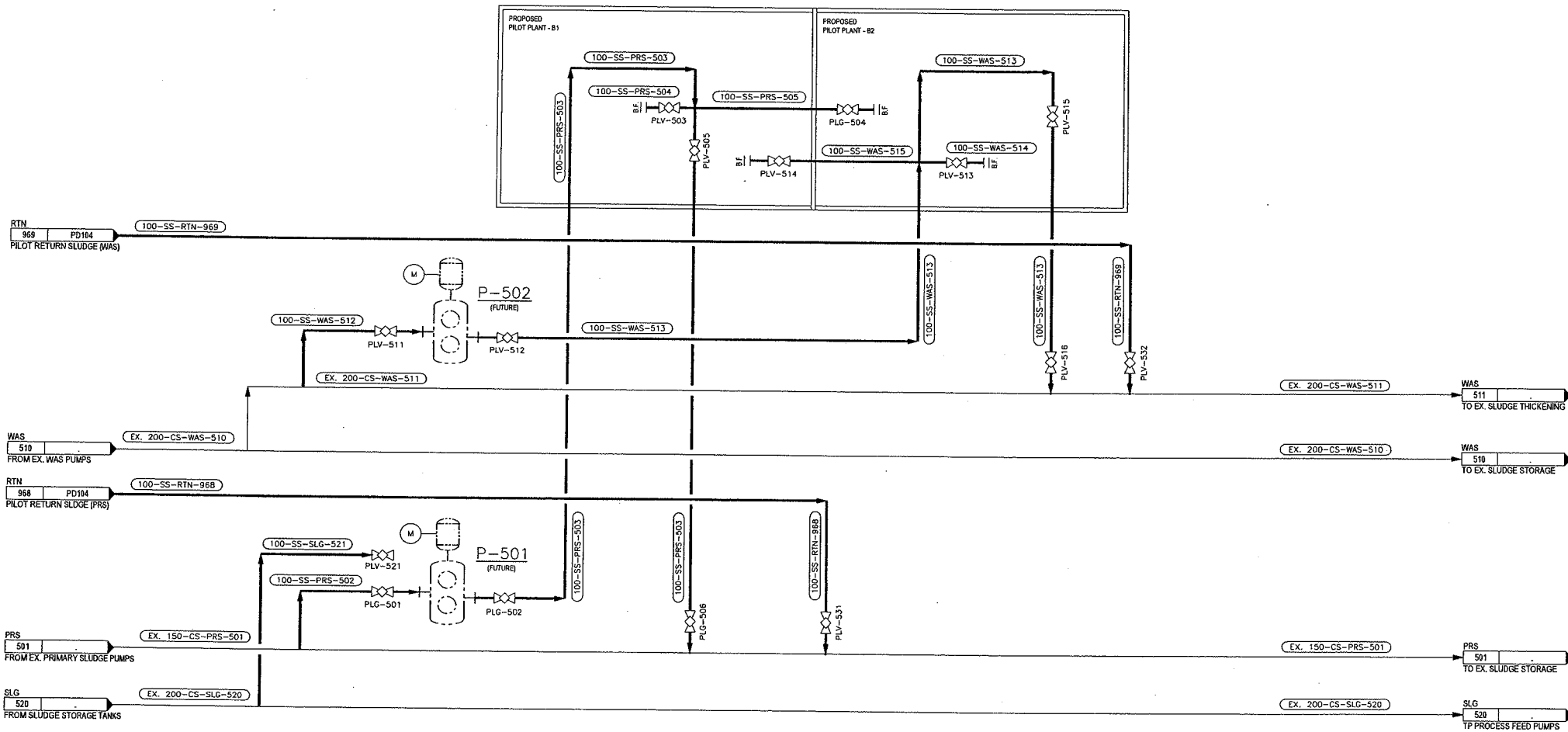
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					REVISED				
					CALCULATED				
					APPROVED				
					DATE				


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TITLE: SOWC-LWF  
 GREENWAY POLLUTION CONTROL CENTRE  
**P & ID**  
 PILOT PLANT EFFLUENT  
 DRAIN AND RETURN PUMPING

PROJECT NO: 165500726  
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					SLUG	10			

  
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SCALE	NOT TO SCALE	PROJECT NO.	165500726
CLIENT	SOWC-LWF GREENWAY POLLUTION CONTROL CENTRE	DRAWING NO.	PD105
TITLE	P & ID PILOT PLANT SLUDGE SUPPLY AND RETURN	DATE	

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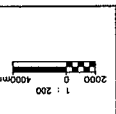
NO.	REVISIONS	DATE	COMPLETION



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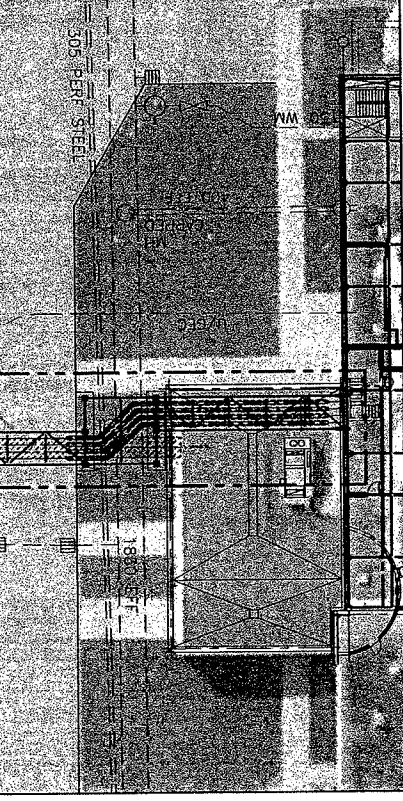
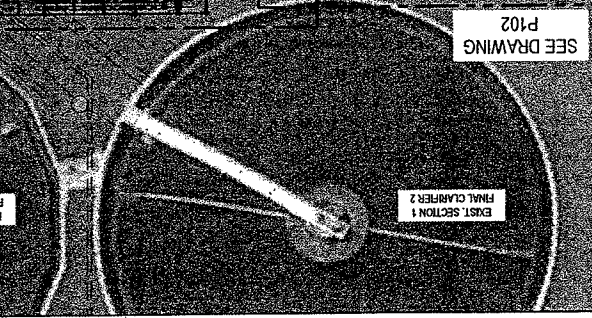
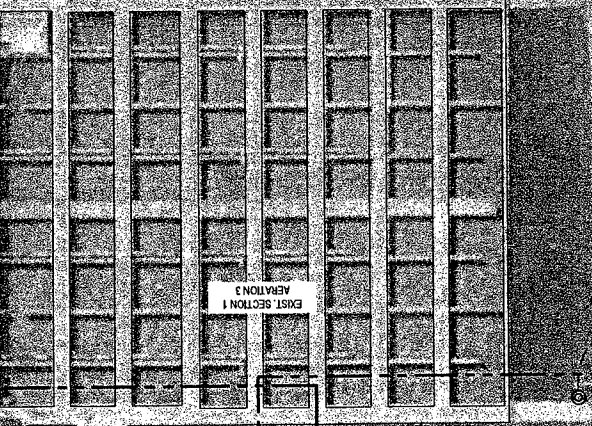
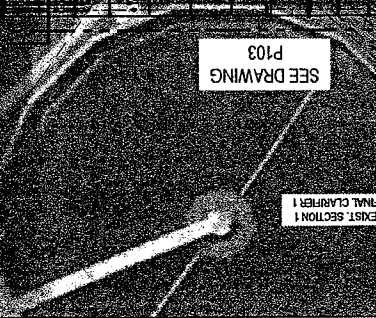
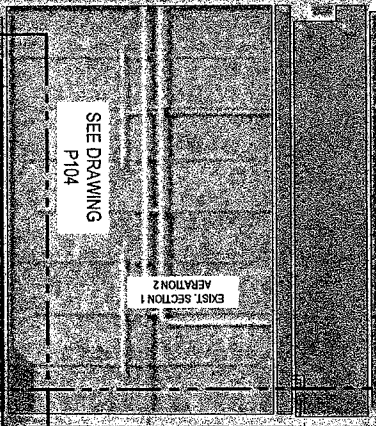
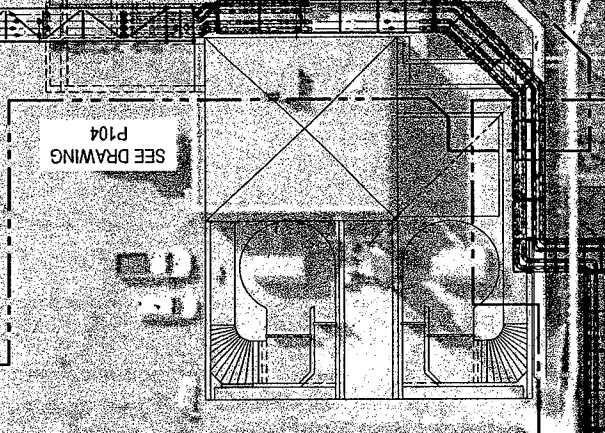
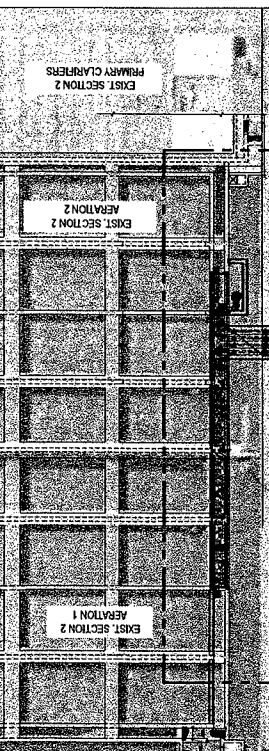
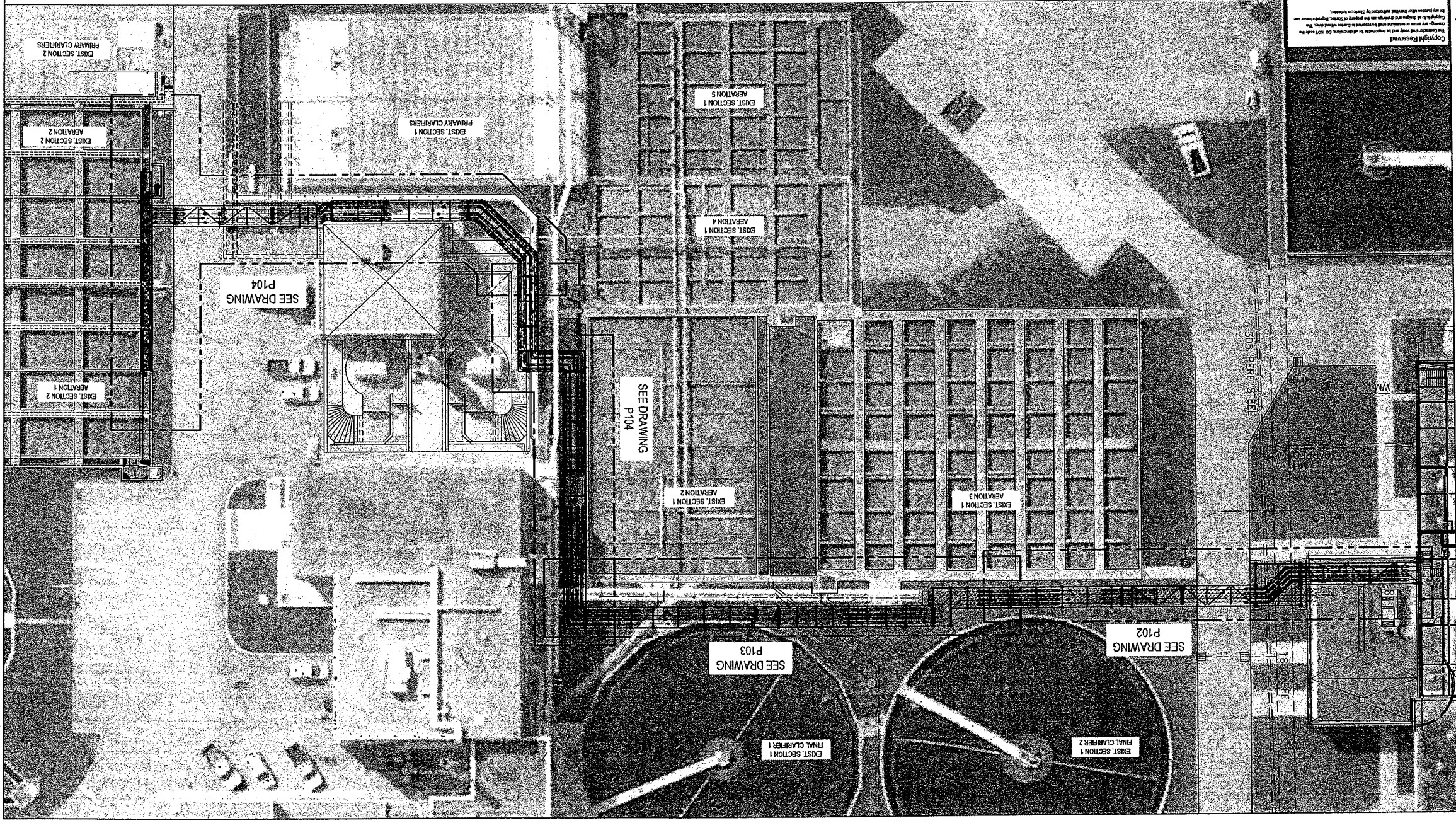


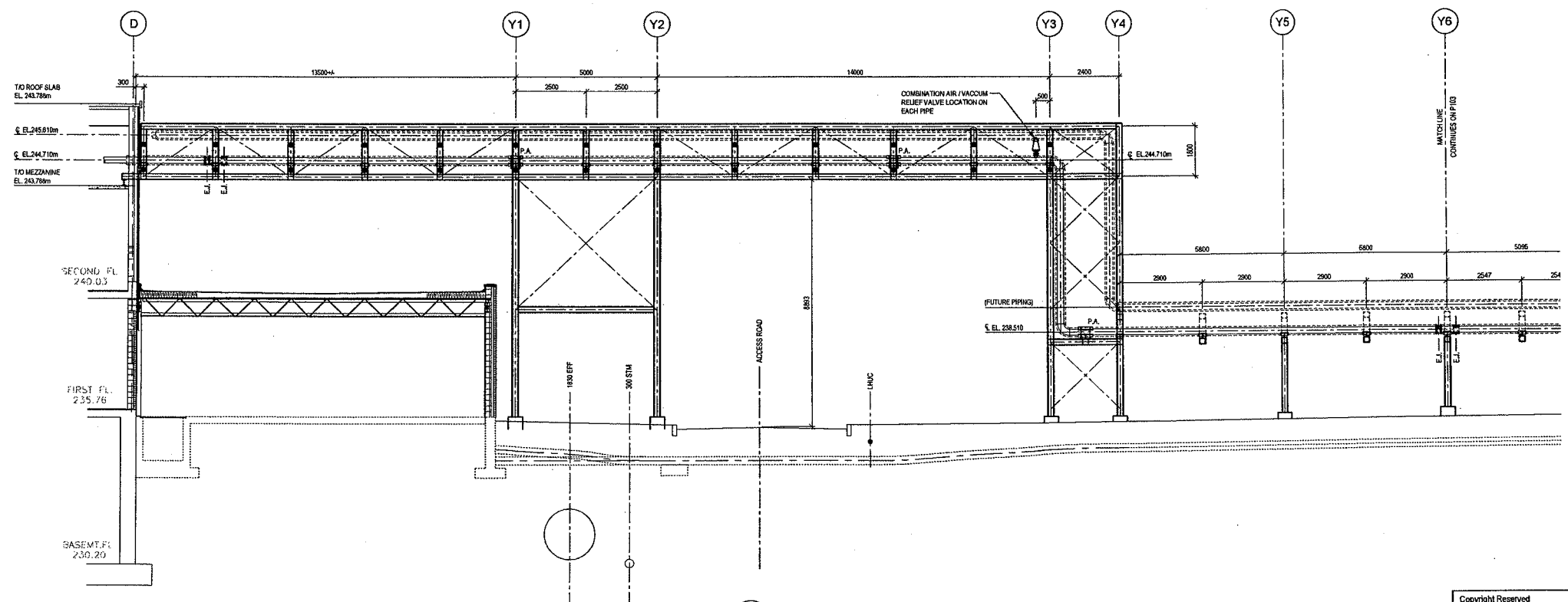
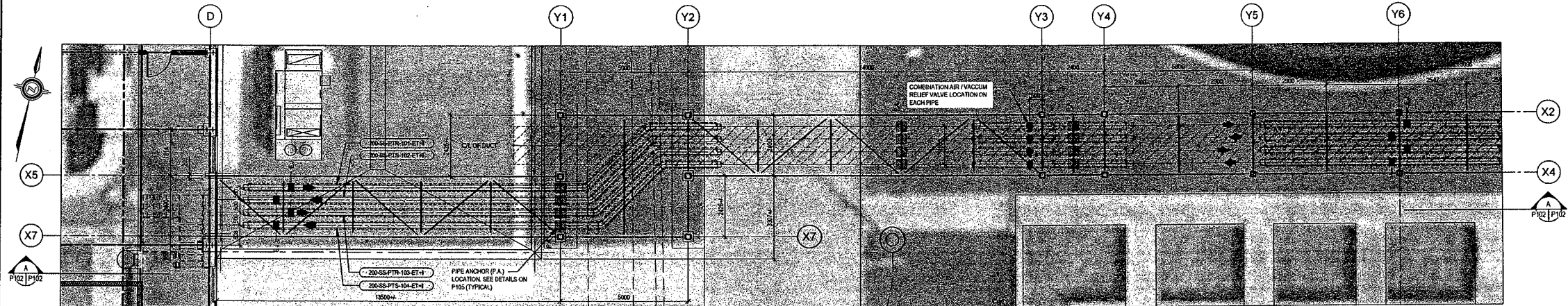
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SOWC-LMF  
GREENWAY POLLUTION CONTROL CENTRE

OVERALL PLAN  
P101





**A SECTION**  
1:75

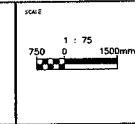
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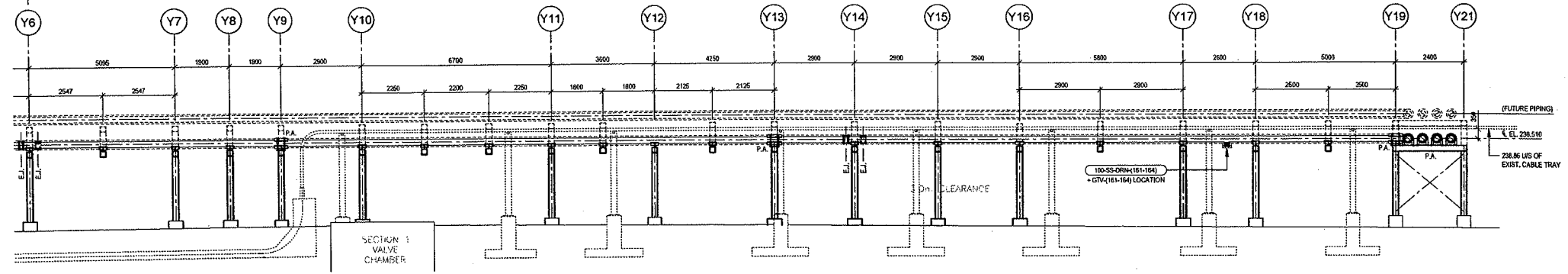
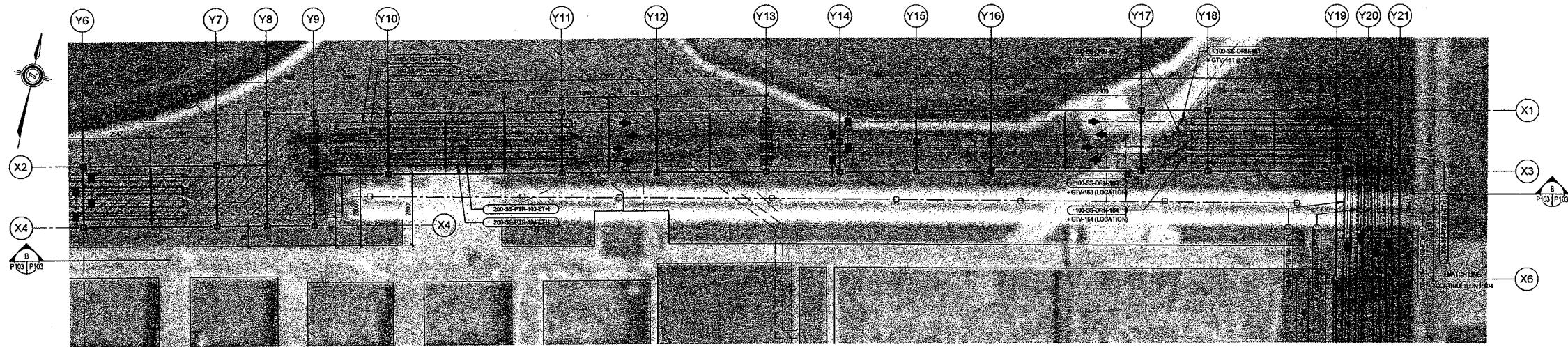
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PROJECT: **ES1721**  
SOWC-LWF  
GREENWAY POLLUTION CONTROL CENTRE  
PROCESS PIPE & SUPPORT ROUTING  
PLAN & ELEVATION / SECTION  
PARTIAL NO. **P102**





B SECTION  
P103 P103 1/75

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DESIGN	NO.	REVISIONS	DATE	CONSULTANT

CONSULTANT OF RECORD

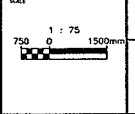


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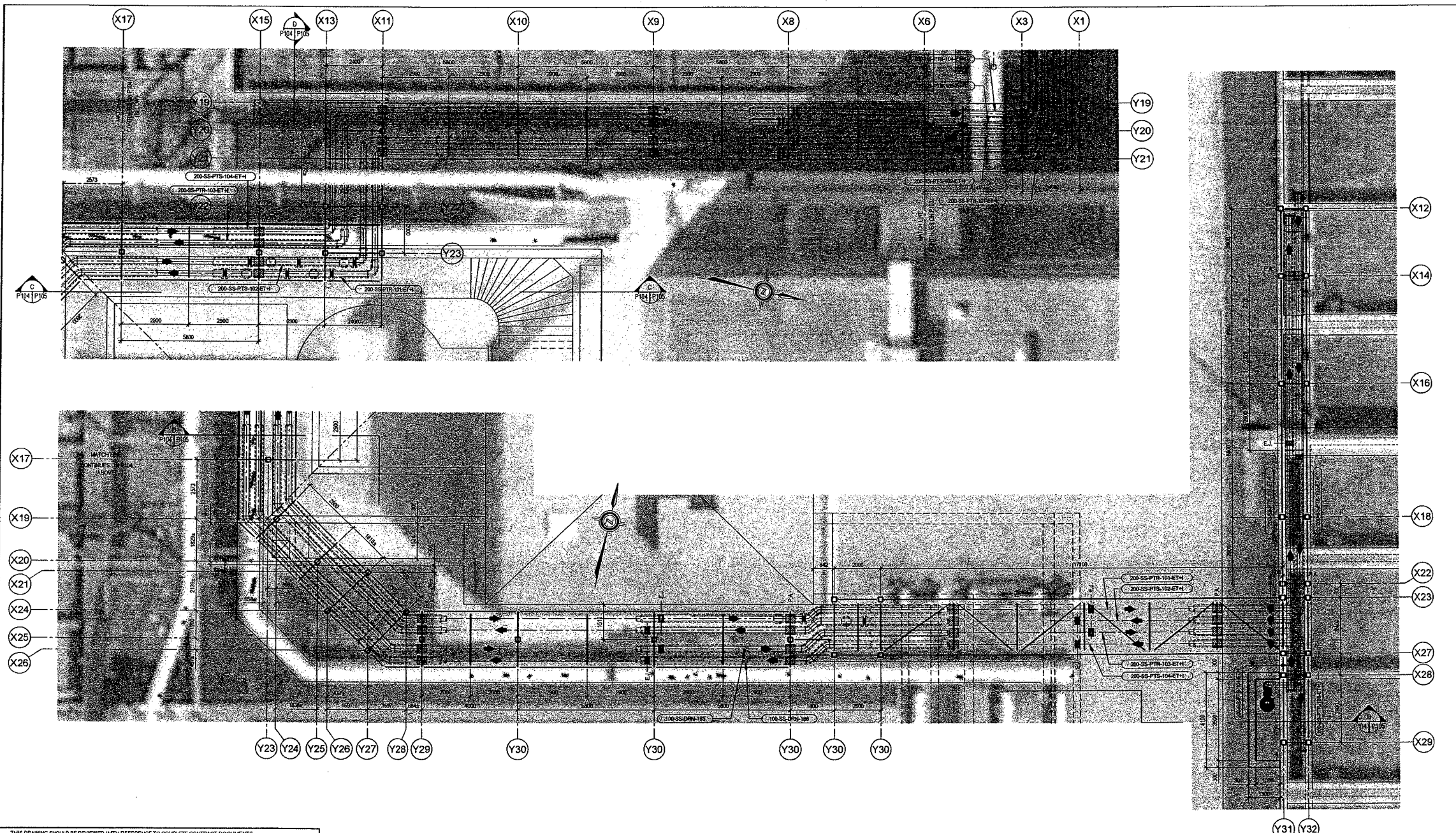


SOWC-LWF  
 GREENWAY POLLUTION CONTROL CENTRE

PROCESS PIPE & SUPPORT ROUTING  
 PLAN & ELEVATION / SECTION

PROJECT	ES1721
SHEET	P103
PLANNED	

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					SYMBOL				
					SYMBOL				
					SYMBOL				
					SYMBOL				
					SYMBOL				

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SCALE  
 1 : 75  
 750 0 1500mm

SOWC-LWF  
 GREENWAY POLLUTION CONTROL CENTRE

**PROCESS PIPE & SUPPORT ROUTING PLANS**

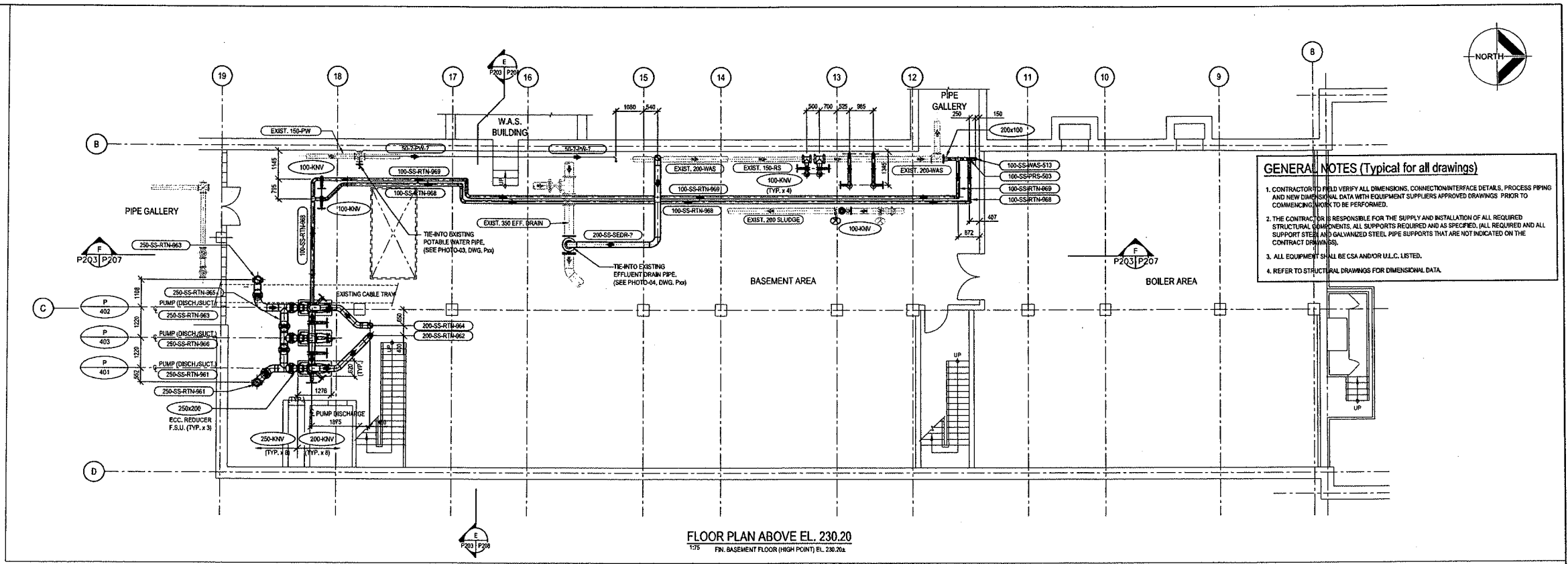
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 SHEET# P104  
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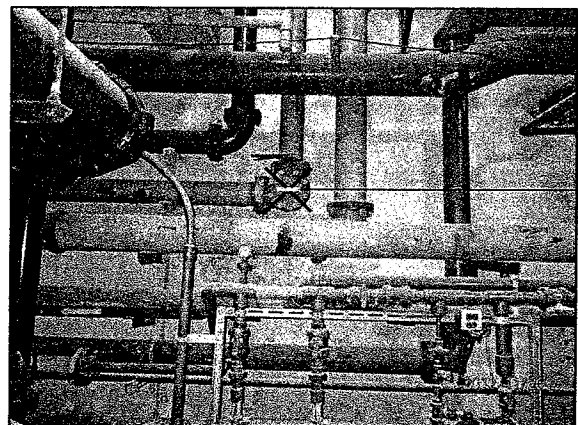




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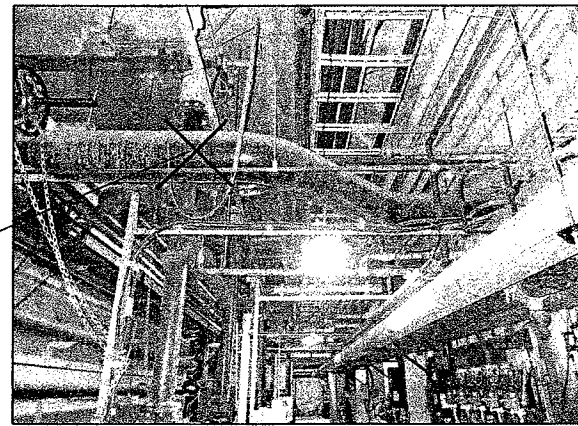
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4. REFER TO STRUCTURAL DRAWINGS FOR DIMENSIONAL DATA.

**FLOOR PLAN ABOVE EL. 230.20**  
 175 FIN. BASEMENT FLOOR (HIGH POINT) EL. 230.20



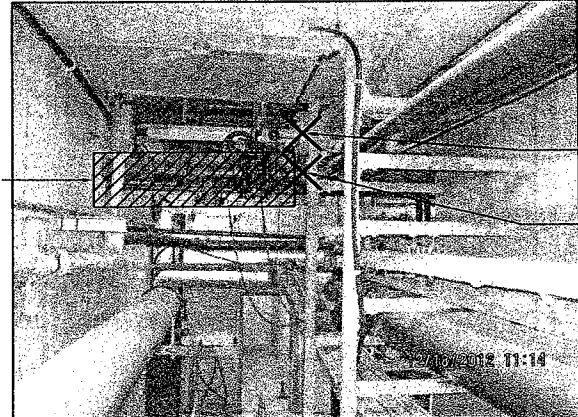
**PHOTO-03**  
(LOOKING WEST)

TIE-INTO EXISTING 1500 POTABLE WATER PIPE W/NEW 50-7-PW-7 AT THIS EXISTING FLANGE LOCATION IN FIELD.



**PHOTO-04**  
(LOOKING NORTH)

TIE-INTO EXISTING 3000 EFFLUENT DRAIN PIPE W/NEW 200-SS-SEDR-2 AT THIS APPROXIMATE LOCATION IN FIELD.



**PHOTO-05**  
(LOOKING EAST)

REMOVE EXISTING 1500 PIPE, FLUG VALVE, TEE, ETC. AS SHOWN.

TIE-INTO EXISTING 2000 WAS PIPE AT EXISTING FLANGE LOCATION W/NEW 100-SS-WAS-513 IN FIELD.

TIE-INTO EXISTING 1500 RAW SLUDGE PIPE AT EXISTING FLANGE LOCATION W/NEW 100-SS-PRS-503 IN FIELD.

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001	12/11/12	ISSUED FOR PER REVIEW		STANTEC
002				
003				
004				
005				
006				
007				
008				
009				
010				

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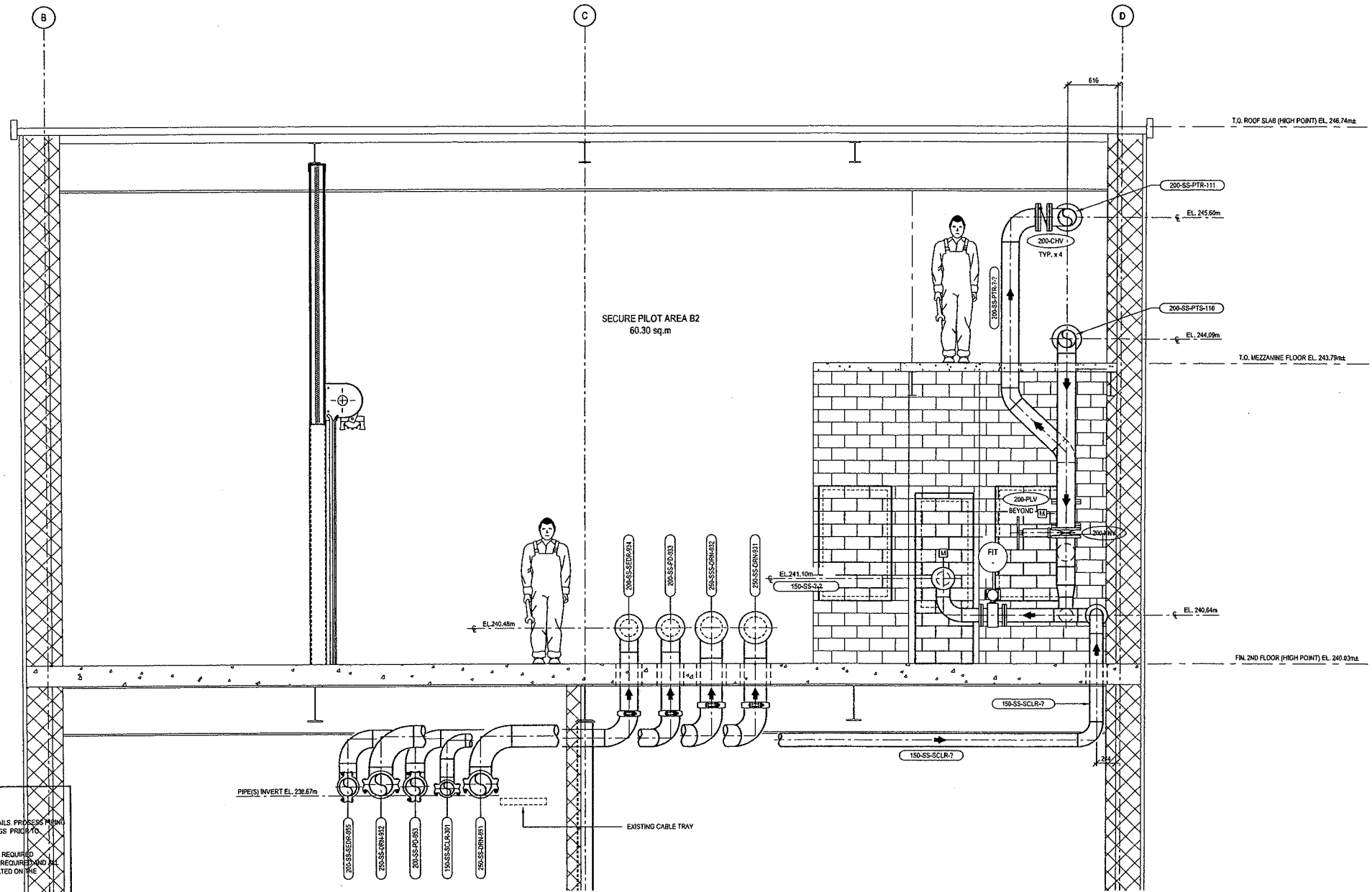
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SCALE  
 1 : 75  
 750 0 1500mm

SOWC-LWF  
 GREENWAY POLLUTION CONTROL CENTRE  
 PLAN ABOVE EL. 230.20

PURCH. NO. ES1721  
 SHEET NO. P203  
 DATE: 12/11/12

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**A SECTION**  
P201/P202 | P204 | 1:25

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CHECKED	010			
APPROVED	010			
DATE				

CONTRACTOR OF RECORD



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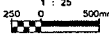
OWNER/CLIENT



**CORPORATION OF THE CITY OF LONDON**

SCALE

1 : 25



FILE

**SOWC-LWF**  
GREENWAY POLLUTION CONTROL CENTRE

**SECTION**

PROJECT NO.

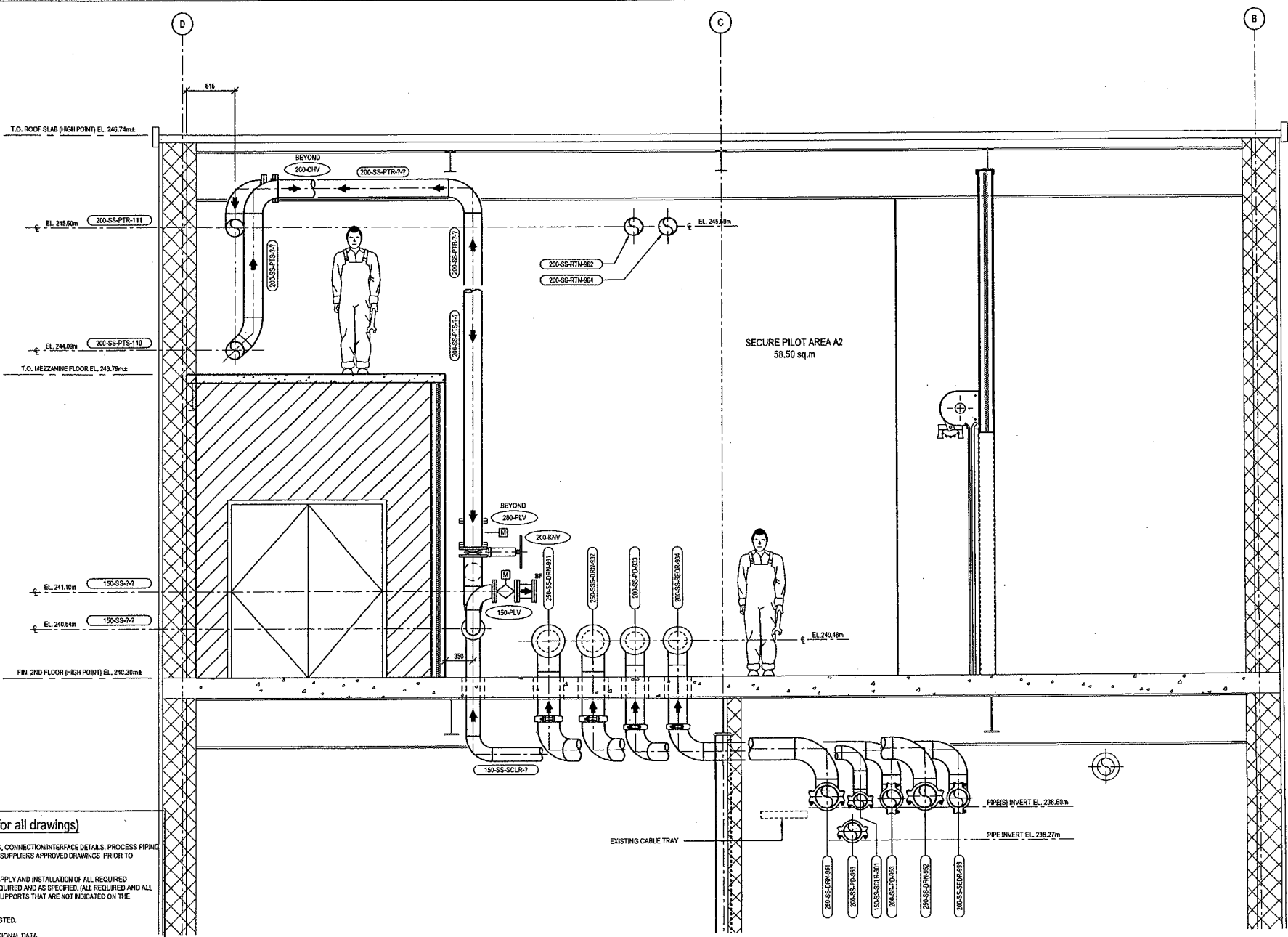
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DWG NO.

**P204**

DATE

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- REFER TO STRUCTURAL DRAWINGS FOR DIMENSIONAL DATA.

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**B SECTION**  
 P201/P202 P205 125

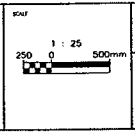
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					CHECKED	010				
					APPROVED	010				
					DATE					
					(TYPICAL)					

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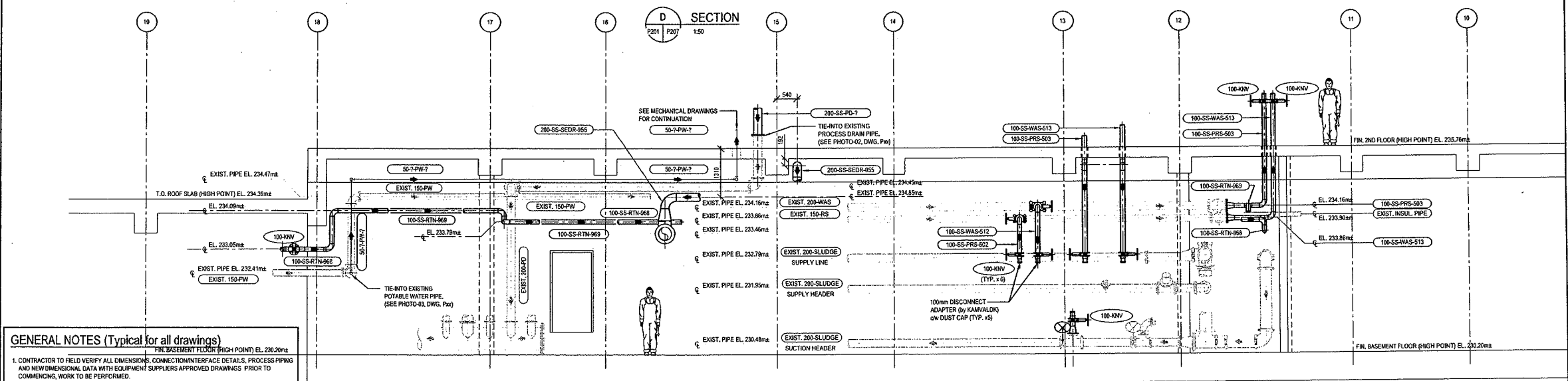
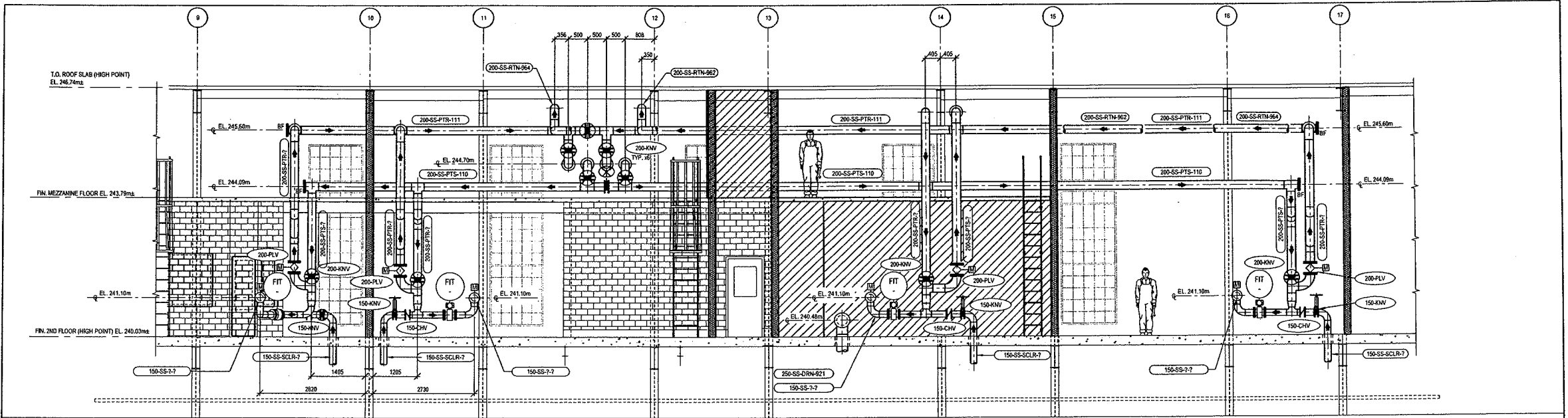
**SOWC-LWF GREENWAY POLLUTION CONTROL CENTRE**

**SECTION**

PROJECT No. ES1721  
 SHEET No. P205  
 DRAWING No.







**GENERAL NOTES (Typical for all drawings)**

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, CONNECTION/INTERFACE DETAILS, PROCESS PIPING AND NEW DIMENSIONAL DATA WITH EQUIPMENT SUPPLIERS APPROVED DRAWINGS PRIOR TO COMMENCING WORK TO BE PERFORMED.

2. THE CONTRACTOR IS RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF ALL REQUIRED STRUCTURAL COMPONENTS, ALL SUPPORTS REQUIRED AND AS SPECIFIED, (ALL REQUIRED AND ALL SUPPORT STEEL AND GALVANIZED STEEL PIPE SUPPORTS THAT ARE NOT INDICATED ON THE CONTRACT DRAWINGS).

3. ALL EQUIPMENT SHALL BE CSA AND/OR U.L.C. LISTED.

4. REFER TO STRUCTURAL DRAWINGS FOR DIMENSIONAL DATA.

- THIS DRAWING SHOULD BE REVIEWED WITH REFERENCE TO COMPLETE CONTRACT DOCUMENTS  
 - GENERAL INFORMATION ONLY. BIDDER SHALL BE RESPONSIBLE TO CONFIRM ALL NECESSARY DIMENSIONS AND INFORMATION AS PART OF THEIR SUBMISSION.

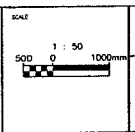
EXISTING SERVICES	DRAWING & SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION

REVISIONS	DATE	CONTRACTOR

**F SECTION**  
 P203 P207 1:50



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 171 Queens Avenue  
 London ON Canada  
 N6A 5J7  
 Tel: 519.645.2007  
 Fax: 519.645.6575  
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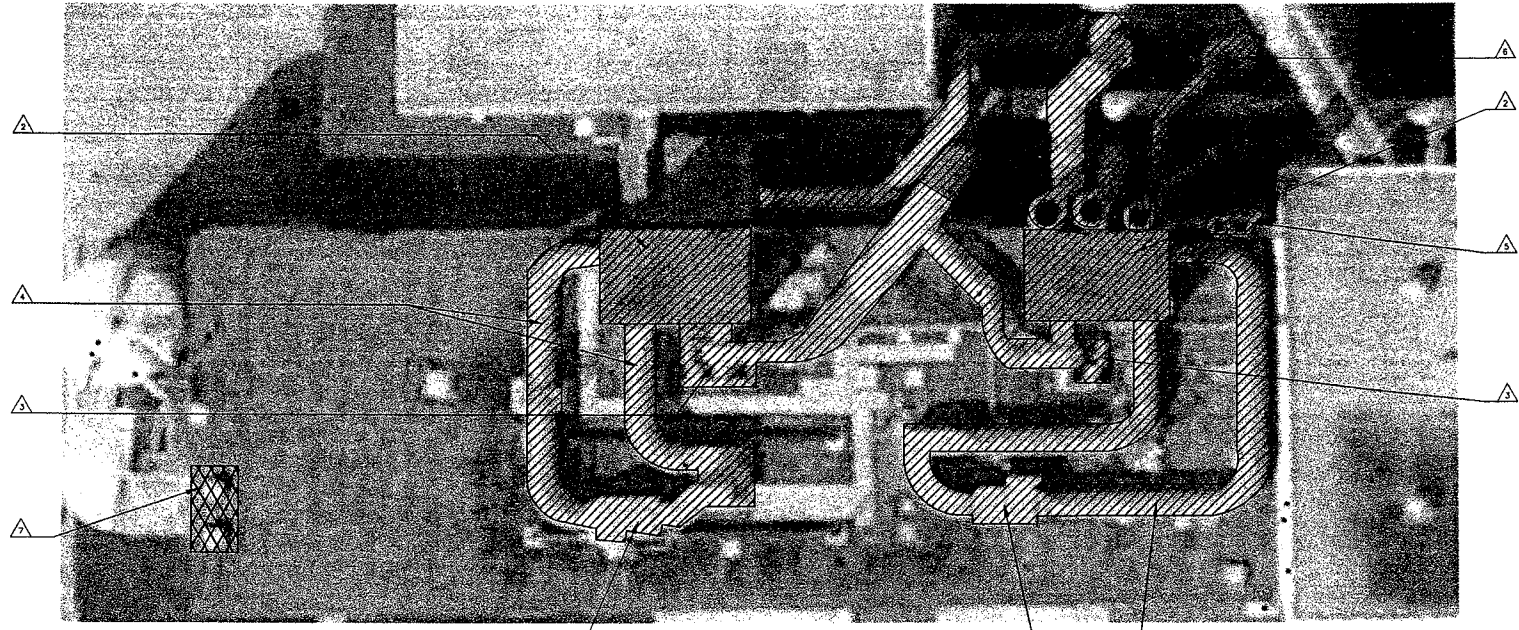
PROJECT: ES1721  
 SHEET: P207  
 SUBJECT: SECTIONS  
 SOWC-LWF  
 GREENWAY POLLUTION CONTROL CENTRE

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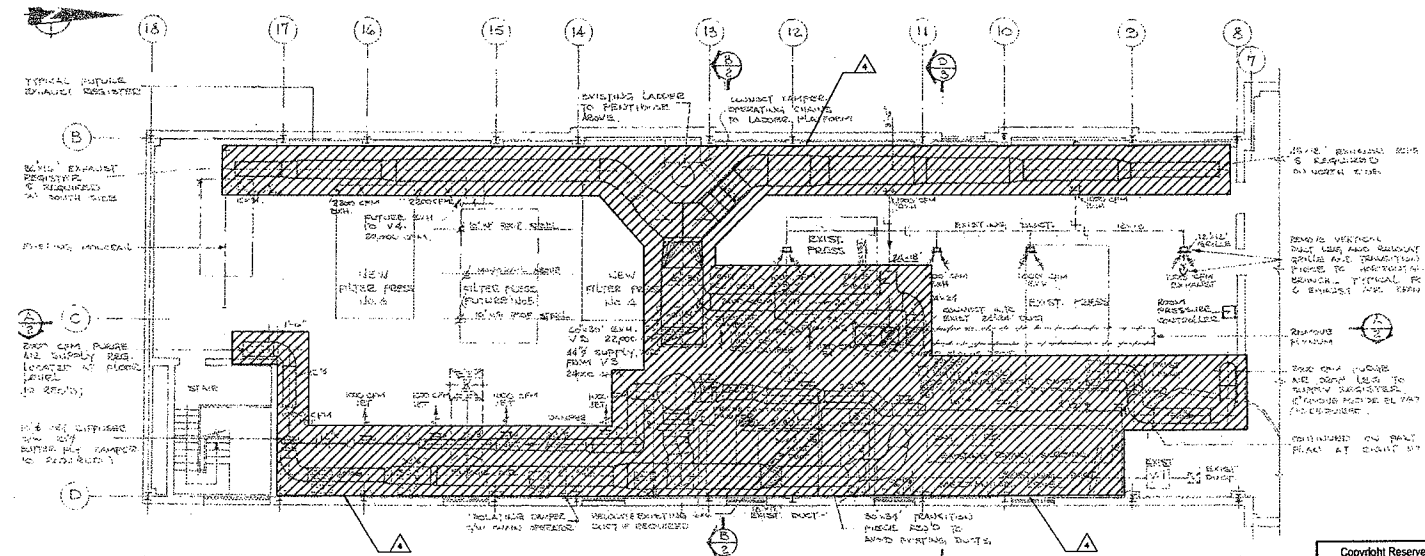
**DEMOLITION NOTES:**

1. REMOVE EXISTING VENTILATION UNIT ON ROOF WITH ALL ASSOCIATED DUCTWORK, SUPPORTS, CONTROLS AND ACCESSORIES.
2. REMOVE EXISTING FILTER PENTHOUSE ON ROOF WITH ALL ASSOCIATED DUCTWORK, SUPPORTS AND ACCESSORIES.
3. REMOVE EXISTING EXHAUST FAN ON ROOF WITH ALL ASSOCIATED DUCTWORK, SUPPORTS, CONTROLS AND ACCESSORIES.
4. REMOVE ALL EXISTING DUCTWORK RELATED TO THE EXISTING VENTILATION UNITS, INCLUDING ALL FITTINGS, REGISTERS, GRILLES, DAMPERS AND SUPPORTS.
5. CUT DOWN THE EXISTING BOILER STACK AND TERMINATE AT 900mm ABOVE THE HIGHEST POINT OF THE BUILDING ROOF ACCORDING TO CSA B149.1-10.
6. REMOVE ALL EXISTING SCRUBBER DUCTWORK. COORDINATE WITH PROCESS.
7. REMOVE EXISTING EXHAUST FANS FOR ROOFING REPLACEMENT AND REINSTATE EXISTING FANS WITH NEW CURBS.



**AERIAL ROOF PLAN - DEMOLITION**

1:100



**PLAN ABOVE EL. 787.50**

**FLOOR PLAN - DEMOLITION**

1:100

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EXISTING SERVICES	DRAWING SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT	CONSULTANT OR DESIGN	ISSUANCE DATE	SCALE	TITLE	PROJECT NO.
					STAIR	31	BASE FOR NEW REV		STANTEC	Stantec Consulting Ltd. 171 Queens Avenue London ON Canada N6A 5J7 Tel: 519.645.2007 Fax: 519.645.6575 www.stantec.com		1:100	SOWC-LWF GREENWAY POLLUTION CONTROL CENTRE	ES
					CHIMNEY	06				CORPORATION OF THE CITY OF LONDON		1:100	MECHANICAL DEMOLITION	MD101
					CHIMNEY	14								
					APPROVAL	12								
					SITE	07/20/20								

**DEMOLITION NOTES**

**GENERAL:**

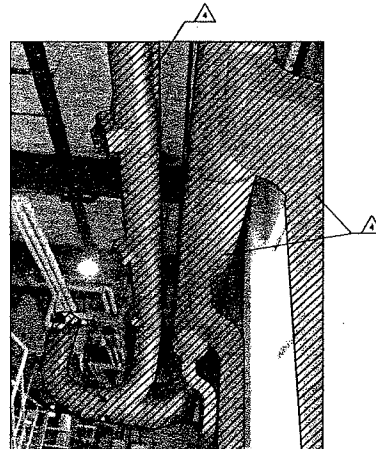
1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LABOR, EQUIPMENT AND SERVICES TO PROPERLY EXECUTE THE DEMOLITION AND REMOVAL WORK INDICATED ON THESE CONSTRUCTION DOCUMENTS.
2. THE DEMOLITION DRAWINGS WERE DEVELOPED BASED ON THE AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VISIT THE SITE AND INSPECT THE EXISTING BUILDING AND VERIFY THAT ALL ITEMS INDICATED TO BE EXISTING AND SO MARKED ON DRAWINGS ARE IN PLACE AND CORRECT.
3. ALL DEMOLITION WORK SHALL BE PERFORMED WITH MINIMUM DAMAGE TO THE EXISTING STRUCTURE AND DEVICES THAT ARE TO REMAIN. IT SHALL BE RECOGNIZED THAT THE UTMOST CARE BE TAKEN WHEN PERFORMING THE DEMOLITION WORK. PROVIDE BARRICADES WHERE REQUIRED TO PROTECT THE PUBLIC.
4. IF CONTRACTOR IS UNSURE IF AN ITEM IS TO BE REMOVED OR NOT, VERIFY WITH OWNER AND/OR ENGINEER BEFORE PROCEEDING. EQUIPMENT REMOVED THAT WAS NOT TO BE, WILL BE REINSTALLED BACK TO ITS ORIGINAL WORKING CONDITION AT THE CONTRACTOR'S OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER AND ENGINEER.
5. MAKE ALL TEMPORARY CONNECTIONS AS REQUIRED TO MAINTAIN OPERATION OF THE FACILITY DURING CONSTRUCTION AND EQUIPMENT REPLACEMENT OR MODIFICATION. SCHEDULE WORK FOR SHUTDOWN WITH THE OWNER, AS REQUIRED, TO REDUCE THE DISRUPTION TO THE REST OF THE CIRCUITRY.
6. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM OPERATIONS TO EXISTING FACILITIES THAT ARE TO REMAIN SUCH AS, BUT NOT LIMITED TO, UNDERGROUND CABLES, HARD SURFACE AREAS, STRUCTURAL CEILING, PIPING AND OTHER UTILITIES. CONTRACTOR TO RESTORE, REPLACE OR REPAIR ANY SUCH DAMAGE TO THE SATISFACTION OF THE ENGINEER AND OWNER.
7. RELOCATE, MAKE TEMPORARY CONNECTIONS, REINSTALL AND RECONNECT ANY EQUIPMENT AS REQUIRED FOR THE CONSTRUCTION OF A NEW CEILING, WALLS, STRUCTURES, PIPING AND SYSTEMS BEING MODIFIED AS PART OF THIS PROJECT.
8. PATCH ALL HOLES IN EXISTING INTERIOR AND EXTERIOR WALLS, STRUCTURES, BASES, CEILINGS, ETC. RESULTING FROM THE REMOVAL OF RACEWAYS AND/OR PIPING.
9. TURN OVER ANY EQUIPMENT REMOVED TO THE OWNER AS DIRECTED ON SITE. ALL MATERIAL AND EQUIPMENT NOT REQUIRED BY THE OWNER IS TO BE REMOVED OFF SITE BY THE CONTRACTOR AND DISPOSED OF PROPERLY.

**MECHANICAL:**

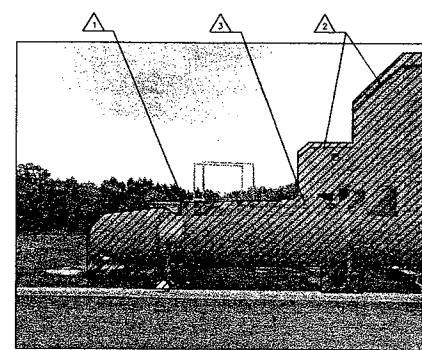
1. DUCTWORK AND EQUIPMENT TO BE REMOVED ARE INDICATED ON DEMOLITION DRAWINGS. REMOVE ITEMS AS INDICATED AND AS REQUIRED TO ACCOMMODATE THE NEW WORK.
2. CONTRACTOR SHALL VERIFY EXACT SIZES, LOCATIONS AND QUANTITIES OF ALL ITEMS IN FIELD.
3. ANY ITEM REQUIRED TO BE REMOVED IN THE CONTRACTOR'S JUDGEMENT BUT NOT SHOWN ON DRAWING SHALL BE VERIFIED AND REMOVED/RELOCATED AT NO ADDITIONAL COST.
4. CONTRACTOR SHALL CHECK WITH ENGINEER FOR ITEMS TO BE SAVED AND RETURN SUCH ITEMS TO THE OWNER. ALL OTHER ITEMS SHALL BE HAULED AWAY FROM SITE.
5. ALL PIPING WHICH ARE DISCONNECTED, SHALL BE TEMPORARILY VALVED & CAPPED TILL NEW CONNECTIONS ARE MADE.
6. ALL DUCTWORK WHICH IS DISCONNECTED, SHALL BE TEMPORARILY CAPPED UNTIL NEW CONNECTIONS ARE MADE.
7. ALL OPENINGS REMAINING IN WALLS/FLOOR/ROOF, AFTER DEMOLITION WORK IS DONE, SHALL BE PATCHED BY THE CONTRACTOR WITH MATERIALS SO AS TO MATCH EXISTING FINISHES, UNLESS OTHERWISE SHOWN.
8. INSULATION ON MATERIALS TO BE REMOVED SHALL BE IDENTIFIED BEFORE ATTEMPTING DEMOLITION AND EPA REGULATION SHALL BE COMPLIED WITH.
9. CONTRACTOR SHALL REMOVE PIPE OR DUCT HANGERS AND SUPPORTS.
10. CAP PIPING BELOW FLOOR/BEHIND WALL AS REQUIRED.
11. DEMOLITION TO BE CARRIED OUT IN A MANNER TO PREVENT DAMAGE TO ANY EXISTING SERVICE OR STRUCTURE.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE THAT MAY OCCUR.

**DEMOLITION NOTES:**

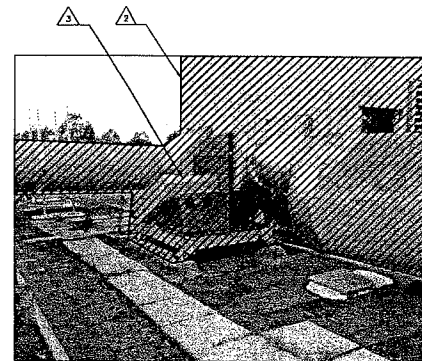
1. REMOVE EXISTING VENTILATION UNIT ON ROOF WITH ALL ASSOCIATED DUCTWORK, SUPPORTS, CONTROLS AND ACCESSORIES.
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4. REMOVE ALL EXISTING DUCTWORK RELATED TO THE EXISTING VENTILATION UNITS, INCLUDING ALL FITTINGS, REGISTERS, GRILLES, DAMPERS AND SUPPORTS.
5. CUT DOWN THE EXISTING BOILER STACK AND TERMINATE AT 900mm ABOVE THE HIGHEST POINT OF THE BUILDING ROOF ACCORDING TO CSA B149.1-10.
6. REMOVE ALL EXISTING SCRUBBER DUCTWORK. COORDINATE WITH PROCESS.



**INTERIOR DUCTWORK**  
N.T.S.



**ROOF DUCTWORK & PENTHOUSE**  
N.T.S.



**ROOF DUCTWORK & FAN**  
N.T.S.

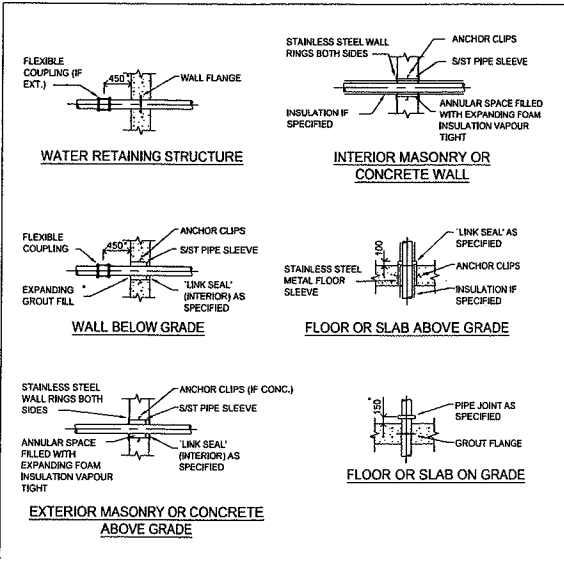
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					MECHANICAL	02								MECHANICAL DEMOLITION	MD102
					CALCULATED	03									
					APPROVED	04									
					DRAWING	05									

**Stantec Consulting Ltd.**  
171 Queens Avenue  
London ON Canada  
N6A 5J7  
Tel: 519.645.2007  
Fax: 519.645.8575  
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**CORPORATION OF THE CITY OF LONDON**  
London CANADA

PROJECT: ES  
DATE: MD102  
SCALE: N.T.S.



**CONSTRUCTION NOTES: (UNLESS NOTED OTHERWISE)**

- ALL PIPES PASSING THRU CONCRETE FLOORS SHALL BE SLEEVED.
- ALL SLEEVES SHALL BE SCH. 40 TYPE 304 S/S I.D. PIPE AND SHALL EXTEND 100 ABOVE FINISHED FLOOR.
- CAST IN PLACE PIPE SPOOLS SHALL BE SAME MATERIAL AS PIPING SYSTEM. FOR STAINLESS STEEL PIPE SYSTEMS, CAST IN PLACE PIPE SPOOLS SHALL BE SCHEDULE 40, TYPE 304 STAINLESS STEEL.
- PIPE JOINTS ON EITHER SIDE OF THE SLEEVE SHALL BE VICTAULIC FLANGE JOINTS TO FACILITATE INSTALLATION OF THE PIPING.
- ALL DUCTILE IRON PIPES PASSING THRU CONCRETE WALLS SHALL BE INSTALLED WITH A WALL FLANGE (GROUT RING) AND SHALL BE PLAIN END TO VICTAULIC FLANGE WHEN MATING TO FLANGED PIPING SYSTEMS.
- ALL WALL THIMBLES, SLEEVES, FLANGES, BACKING FLANGES, FASTENERS AND HARDWARE IN WATER RETENTION STRUCTURES TO BE STAINLESS STEEL.

**TYPICAL PIPE PENETRATIONS AND SLEEVE DETAILS**  
N.T.S.

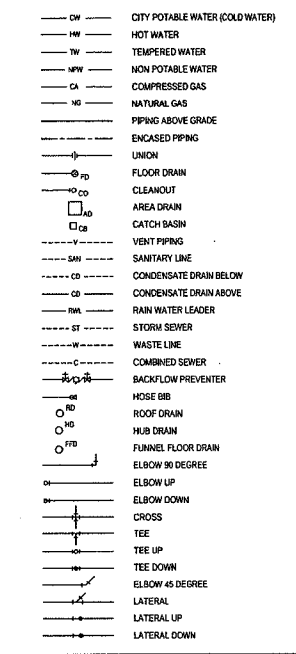
**PLUMBING ABBREVIATIONS**

AC	AIR CONDITIONER UNIT
ACCU	AIR-COOLED CONDENSING UNIT
AD	ACID NEUTRALIZATION TANK
ANT	BACKFLOW PREVENTER
BFP	BOOSTER PUMP
BP	CONDENSATE DRAIN
CW	DOMESTIC COLD WATER
CP	CIRCULATION PUMP
DF	DRINKING FOUNTAIN
DWH	DOMESTIC WATER HEATER
E/SHW	COMBINED EMERGENCY SHOWER & EYEWASH
ES	EMERGENCY SAFETY SHOWER
ET	EXPANSION TANK
ETP	TRAP PRIMER ASSEMBLY (ELECT. ACTUATED)
EW	EMERGENCY EYEWASH
EW/C	ELECTRIC WATER COOLER
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
GD	GUTTER DRAIN
GDH	GAS WATER HEATER
HUB	HUB DRAIN
HDS	HOSE DOWN STATION
HV	HOSE VALVE
HW	DOMESTIC HOT WATER
HX	HEAT EXCHANGER
HW	DOMESTIC HOT WATER
LAV	LAVATORY
MS	MOP SINK
OD	OVERFLOW ROOF DRAIN
ON	OVERFLOW NOZZLE
OWS	OIL WATER SEPARATOR
RD	ROOF DRAIN
S	SINK
SH	SHOWER
SP	SUMP PUMP
SS	SERVICE SINK
ST	STORAGE TANK
TD	TRENCH DRAIN
TP	TRAP PRIMER
TV	TEMPERING VALVE
TWT	TEMPERED WATER STORAGE TANK
UR	URINAL
VAC	VACUUM PUMP
VTR	VENT THRU ROOF
WC	WATER CLOSET
WF	WASH FOUNTAIN

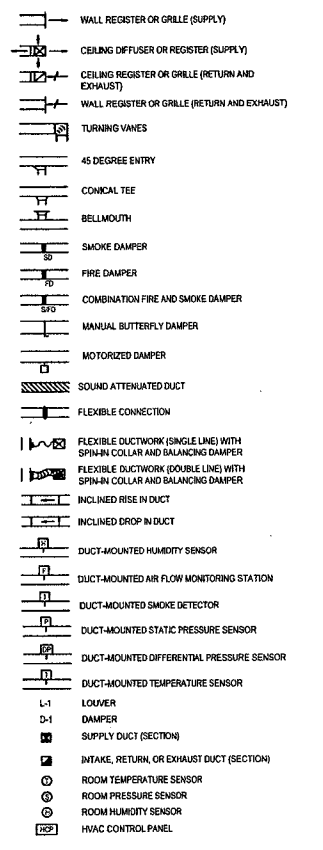
**HVAC ABBREVIATIONS**

ACU	AIR CONDITIONER UNIT
ACCU	AIR-COOLED CONDENSING UNIT
AD	ACCESS DOOR
AHU	AIR HANDLING UNIT
ALR	ALARM
BD	BUTTERFLY DAMPER
CD	CYLINDRICAL DAMPER
CU	CONDENSER UNIT
DG	DUCT
DU	DUCT
EA	EXHAUST AIR
EAG	EXHAUST AIR GRILLE
EC	ELECTRIC CONNECTOR
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EUH	ELECTRIC UNIT HEATER
F	FILTER
FD	FIRE DAMPER
FSD	FIRE DAMPER
FI	FLOW INDICATOR
FSC	COMBINATION FIRE AND SMOKE DAMPER
FT	FINNED TUBE CONVECTOR
GUH	GAS UNIT HEATER
HCP	HVAC CONTROL PANEL
HRRU	HEAT RECOVERY UNIT
HU	HUMIDIFIER
HVU	HEATING & VENTILATING UNIT
HWP	HEATING WATER PUMP
HX	HEAT EXCHANGER
LD	LINEAR DIFFUSER
MD	MOTORIZED DAMPER
ODB	OPPOSED BLADE DAMPER
OSA	OUTSIDE AIR
PCG	PERFORATED CEILING GRILLE
PCD	PERFORATED CEILING DIFFUSER
PEF	PORTABLE EXHAUST FAN
RA	RETURN AIR
RAC	ROOM AIR CONDITIONER
RAG	RETURN AIR GRILLE
RAR	RETURN AIR REGISTER
SAR	SUPPLY AIR REGISTER
SAG	SUPPLY AIR GRILLE
SAR	SUPPLY AIR REGISTER
SFN	SUPPLY FAN
SD	SLOT DIFFUSER
TAC	TERMINAL AIR CONDITIONER
TCU	TERMINAL CONTROL UNIT
UH	UNIT HEATER
VCD	VOLUME CONTROL DAMPER

**PLUMBING SYMBOLS**



**HVAC SYMBOLS**



**MECHANICAL GENERAL NOTES:**

- CONTRACTOR SHALL RECORD ON AS-BUILT DRAWINGS ALL SIZES, MATERIALS, ELEVATIONS AND LOCATIONS OF ALL EQUIPMENT AND DUCTWORK THAT DEVIATES FROM THE DESIGN CONTRACT DRAWINGS.
- ALL WORK AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE ONTARIO BUILDING AND MECHANICAL CODES AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
- PRIOR TO START OF CONSTRUCTION COORDINATE INSTALLATION OF MECHANICAL WORK TO AVOID UNNECESSARY JOB DELAYS OR INTERFERENCE WITH ALL OTHER TRADES.
- OBTAIN ALL FIELD APPROVALS ON MECHANICAL WORK FROM REGULATING AGENCIES WHERE REQUIRED.
- ALL EQUIPMENT SHALL BE CSA AND/OR U.L.C. LISTED.
- ALL HVAC WORK SHALL BE IN COMPLIANCE WITH NFPA 90A AND 90B AS APPLICABLE AND IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- MECHANICAL DRAWINGS ARE SCHEMATIC IN NATURE AND ARE TO CONVEY DESIGN INTENT ONLY. REQUIRED OFFSETS, FITTINGS AND GENERAL INSTALLATION REQUIREMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

**HVAC GENERAL NOTES:**

- THIS IS A STANDARD LEGEND, THEREFORE, SOME SYMBOLS AND ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE DRAWINGS.
- FOR DUCT CONSTRUCTION DETAILS, SEE SPECIFICATIONS.
- DUCT AND PIPING ELEVATIONS SHOWN ARE APPROXIMATE. FIELD VERIFY ELEVATIONS PRIOR TO INSTALLATION, EXCEPT WHERE DIMENSIONS ARE SPECIFICALLY INDICATED. MECHANICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC AND SHALL NOT BE SCALED. SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE WHERE POSSIBLE. DRAWINGS INDICATE THE REQUIRED SIZE AND ROUTES OF SYSTEM ELEMENTS. IT IS NOT INTENDED TO INDICATE ALL OFFSETS, RISERS, OR FITTINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL SYSTEM ELEMENTS IN A MANNER TO CONFORM TO BUILDING STRUCTURE AND TO AVOID OBSTRUCTIONS.
- THE CONTRACTOR SHALL PROVIDE OFFSETS IN THE PIPING AND DUCT RUNS WHERE REQUIRED TO CLEAR EXISTING AND NEW DUCTS, STRUCTURES AND OTHER PIPING SYSTEMS.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ROOF OPENINGS AND PENETRATIONS.
- TRANSITIONS TO ALL EQUIPMENT, INTO THE AVAILABLE SPACE, IN A MANNER TO MAKE ALL WORKINGS PARTS ACCESSIBLE FOR MAINTENANCE AND SERVICE.
- DIVISION 15, CONTRACTOR TO PROVIDE AND INSTALL ALL LOW VOLTAGE WIRING AND CONDUIT, CONDUIT AS SPECIFIED IN DIVISION 15.

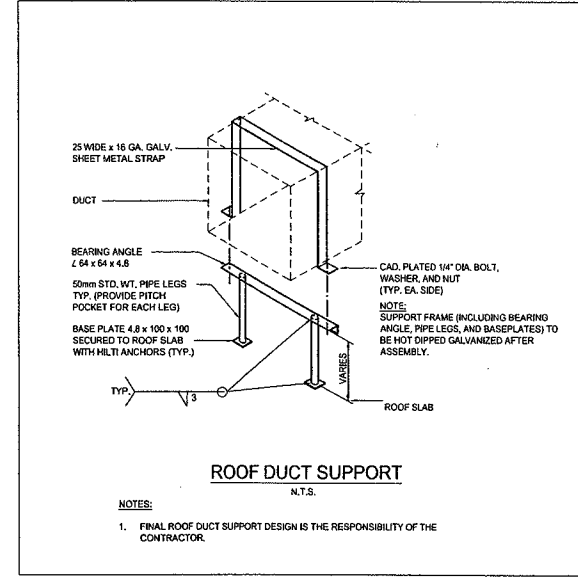
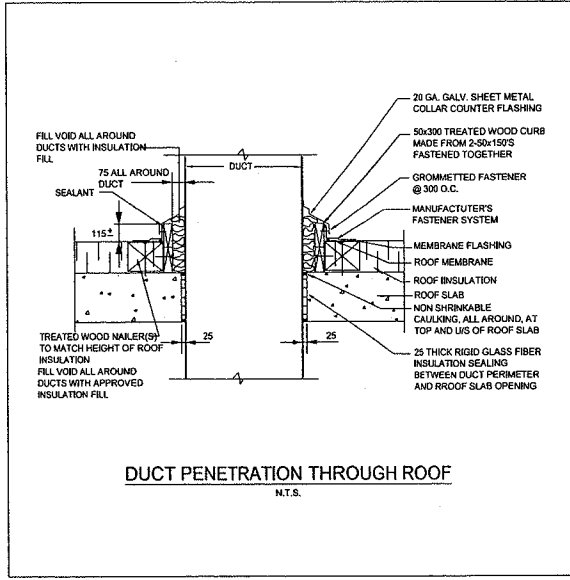
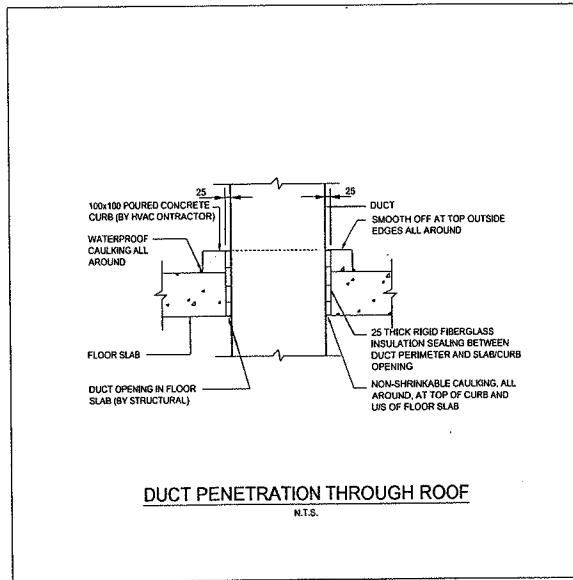
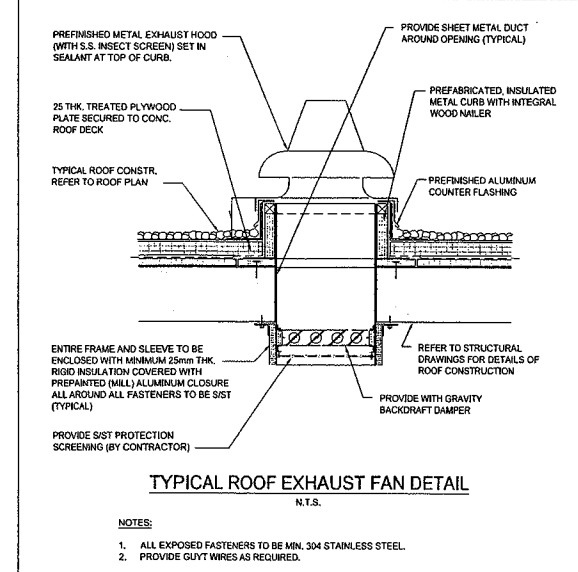
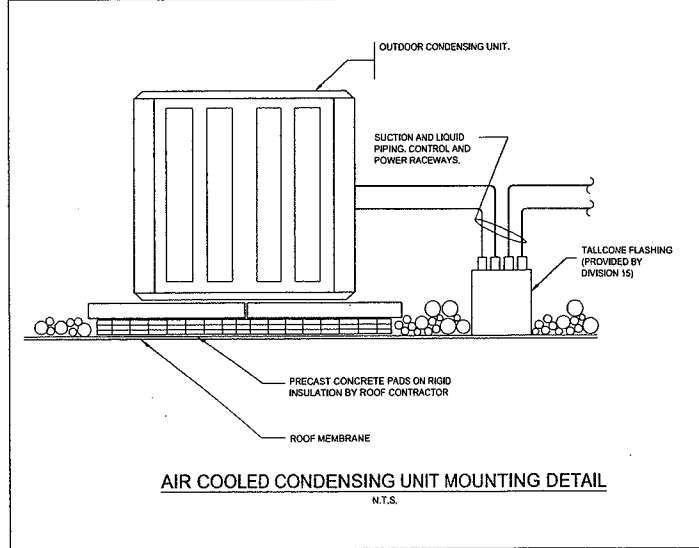
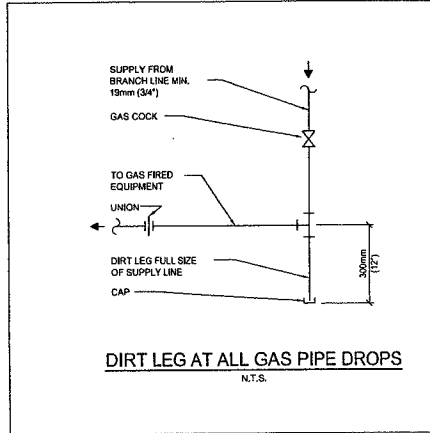
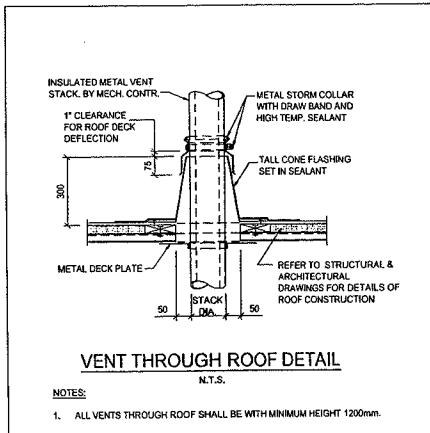
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					SECTION 26	1	ISSUE FOR PERMIT REVIEW	03/12/20	STANTEC			N.T.S.	SOWC-LWF GREENWAY POLLUTION CONTROL CENTRE	ES
					SECTION 08								MECHANICAL LEGENDS AND NOTES	001
					SECTION 5A									M001
					SECTION 07									
					SECTION 09/10/20									

**Stantec Consulting Ltd.**  
171 Queens Avenue  
London ON Canada  
N6A 5J7  
Tel: 519.645.2007  
Fax: 519.645.8575  
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PROJECT NO. ES  
SHEET NO. M001  
PLANNED BY



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					DRYING	20	1	2014/01/01	STANTEC
					CHECKED	SA			
					APPROVED	ET			
					DATE	07/11/2014			

CONTRACTOR OR DESIGNER

Stantec Consulting Ltd.  
171 Queens Avenue  
London ON Canada  
N6A 5J7  
Tel: 519.645.2007  
Fax: 519.645.0576  
www.stantec.com

OWNER

CORPORATION OF THE CITY OF LONDON

SCALE

N.T.S.

PROJECT TITLE

SOWC-LWF  
GREENWAY POLLUTION CONTROL CENTRE

MECHANICAL  
STANDARD DETAILS

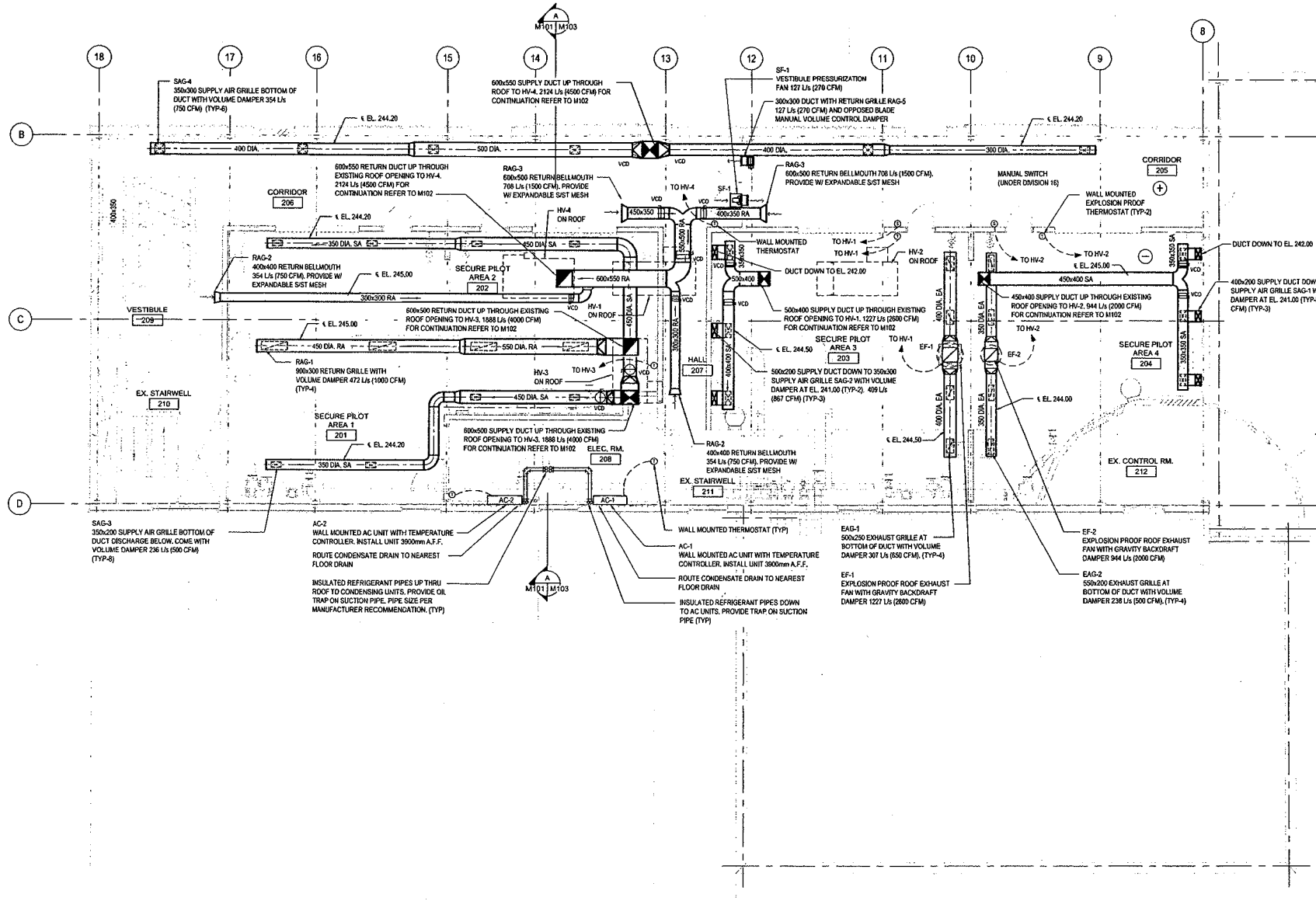
PROJECT NO.

ES

DRAWING NO.

M002

PLANTER NO.



**SECOND FLOOR PLAN**  
1:75

NOTE:  
ALL SUPPLY AND RETURN AIR DUCTS AND ACCESSORIES SHALL BE STAINLESS STEEL.

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					04/09	00A				
					04/09	01A				
					04/09	02				
					04/09	03				

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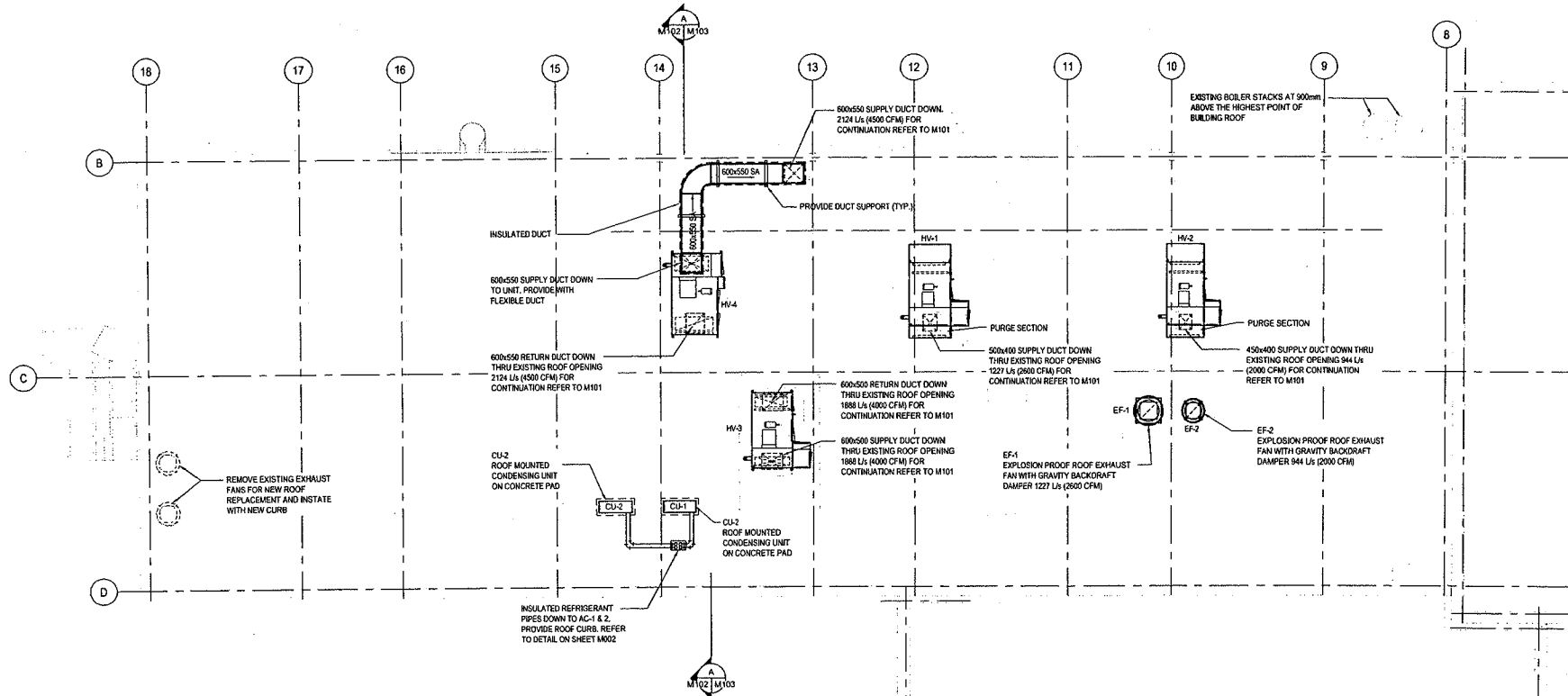
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SCALE  
1 : 75  
750 0 1500mm

SOWC-LWF  
GREENWAY POLLUTION CONTROL CENTRE  
**MECHANICAL FLOOR PLAN**

PROJECT NO. ES  
SHEET NO. M101  
PLAN NO.





**ROOF PLAN**  
1:75

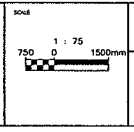
**NOTE:**  
THE DUCT SUPPORT SHOWN IS ONLY SCHEMATIC. THE FINAL DESIGN AND NUMBER OF REQUIRED SUPPORTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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					DESIGN	1	ISSUE FOR REVIEW	11/13/11	STANTEC
					CHECKED				
					APPROVED				
					DATE				

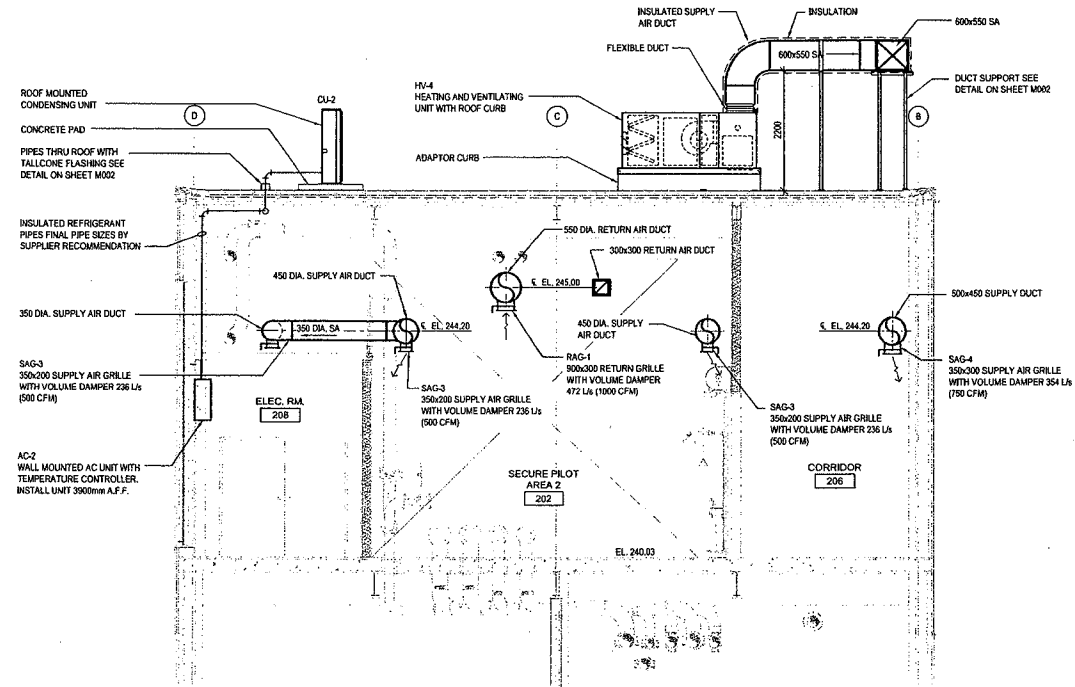

**Stantec Consulting Ltd.**  
 171 Queens Avenue  
 London ON Canada  
 N6A 5J7  
 Tel: 519.645.2007  
 Fax: 519.645.6575  
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SOWC-LWF  
 GREENWAY POLLUTION CONTROL CENTRE  
**MECHANICAL ROOF PLAN**

PROJECT No. ES  
 SHEET No. M102  
 PLAN FILE No.



**A SECTION**  
M101 | M103 | 1:50

NOTE:  
ALL SUPPLY AND RETURN AIR DUCTS AND ACCESSORIES SHALL BE STAINLESS STEEL.

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EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	NO.	REVISIONS	DATE (Y/M/D)	CONSULTANT
					CONDENSING UNIT	01	CONDENSING UNIT	2007	STANTEC
					CONCRETE PAD	02	CONCRETE PAD	2007	STANTEC
					PIPES THRU ROOF WITH FLASHING	03	PIPES THRU ROOF WITH FLASHING	2007	STANTEC
					INSULATED REFRIGERANT PIPES	04	INSULATED REFRIGERANT PIPES	2007	STANTEC
					350 DIA. SUPPLY AIR DUCT	05	350 DIA. SUPPLY AIR DUCT	2007	STANTEC
					SAG-3 350x200 SUPPLY AIR GRILLE	06	SAG-3 350x200 SUPPLY AIR GRILLE	2007	STANTEC
					AC-2 WALL MOUNTED AC UNIT	07	AC-2 WALL MOUNTED AC UNIT	2007	STANTEC
					INSULATED SUPPLY AIR DUCT	08	INSULATED SUPPLY AIR DUCT	2007	STANTEC
					FLEXIBLE DUCT	09	FLEXIBLE DUCT	2007	STANTEC
					600x550 SA	10	600x550 SA	2007	STANTEC
					H-4 HEATING AND VENTILATING UNIT	11	H-4 HEATING AND VENTILATING UNIT	2007	STANTEC
					ADAPTOR CURB	12	ADAPTOR CURB	2007	STANTEC
					550 DIA. RETURN AIR DUCT	13	550 DIA. RETURN AIR DUCT	2007	STANTEC
					300x300 RETURN AIR DUCT	14	300x300 RETURN AIR DUCT	2007	STANTEC
					RAC-1 800x300 RETURN GRILLE	15	RAC-1 800x300 RETURN GRILLE	2007	STANTEC
					SAG-4 350x200 SUPPLY AIR GRILLE	16	SAG-4 350x200 SUPPLY AIR GRILLE	2007	STANTEC
					500x450 SUPPLY DUCT	17	500x450 SUPPLY DUCT	2007	STANTEC

CONSULTANT OR DESIGN

**Stantec Consulting Ltd.**  
171 Queen's Avenue  
London ON Canada  
N6A 5J7  
Tel: 519-545-2007  
Fax: 519-545-8575  
www.stantec.com

Project No. 10500726

DESIGNER'S STAMP

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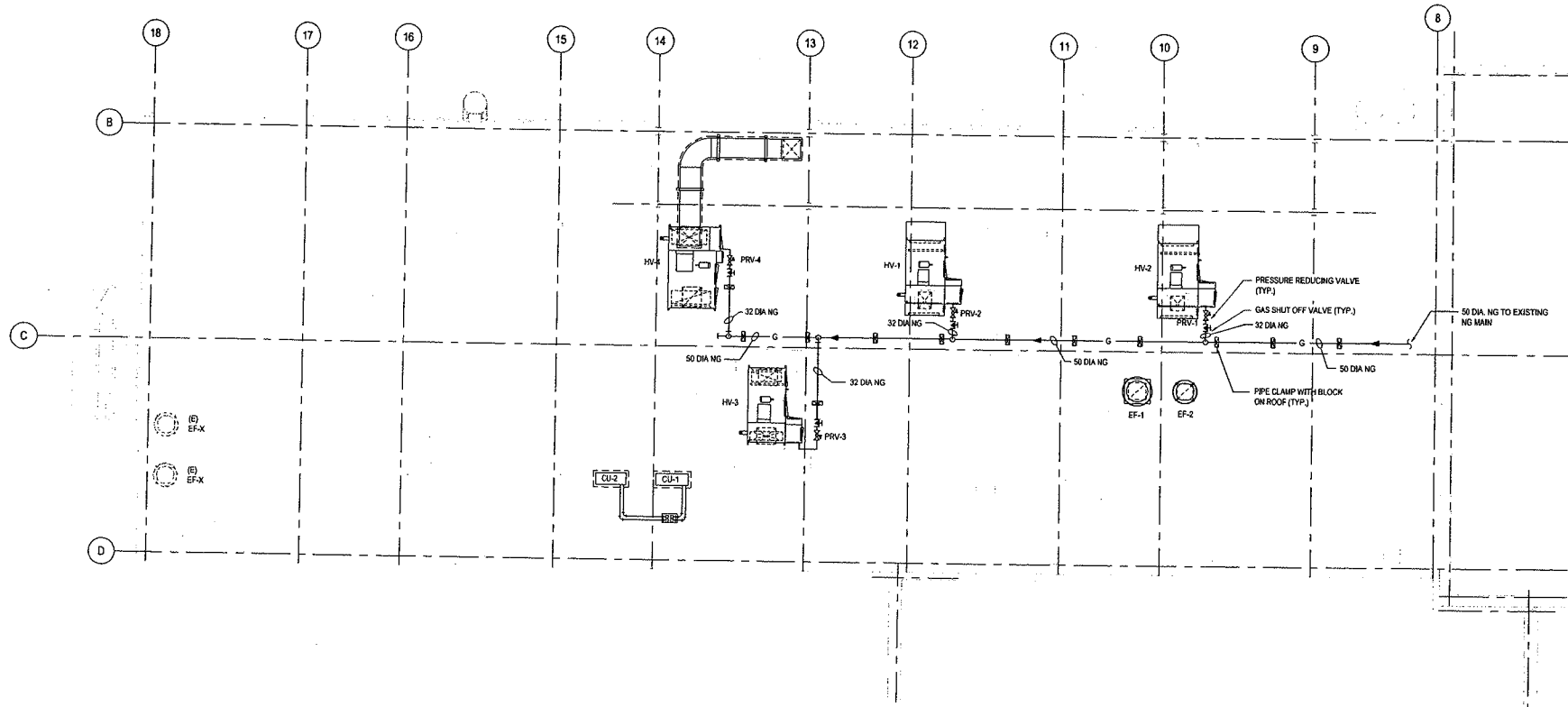
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PROJECT NO. ES  
SHEET NO. M103  
DRAWING NO. PLW103

**SOWC-LWF  
GREENWAY POLLUTION CONTROL CENTRE**

**MECHANICAL SECTION**





**ROOF PLAN**  
1:75

NATURAL GAS PRESSURE REDUCING REGULATOR SCHEDULE							
MARK	DESCRIPTION	MANUFACTURER	MODEL No	INLET PRESSURE (psi)	OUTLET PRESSURE (psi)	CAPACITY (SCFH)	REMARKS
PRV-1	PRESSURE REDUCING VALVE	FISHER	SERIES S300	14	7	250	SEE NOTE 1,2,3
PRV-2	PRESSURE REDUCING VALVE	FISHER	SERIES S300	14	7	200	SEE NOTE 1,2,3
PRV-3	PRESSURE REDUCING VALVE	FISHER	SERIES S300	14	7	150	SEE NOTE 1,2,3
PRV-4	PRESSURE REDUCING VALVE	FISHER	SERIES S300	14	7	150	SEE NOTE 1,2,3

- NOTES:  
 1. SUITABLE FOR HEATING AND VENTILATING APPLICATION.  
 2. SUITABLE FOR OUTDOOR LOCATION.  
 3. THE LISTED OUTLET PRESSURE IS FOR REFERENCE ONLY. ADJUST ACTUAL OUTLET PRESSURE ON SITE TO MEET MANUFACTURER RECOMMENDED OPERATING PRESSURE FOR ALL GAS FIRED EQUIPMENT.

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					DESIGN BY	1	REVISION FOR NO. 10/2010	10/2010	STANTEC
					DRAWN BY				
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 171 Queens Avenue  
 London ON Canada  
 N5A 5J7  
 Tel: 519.645.2007  
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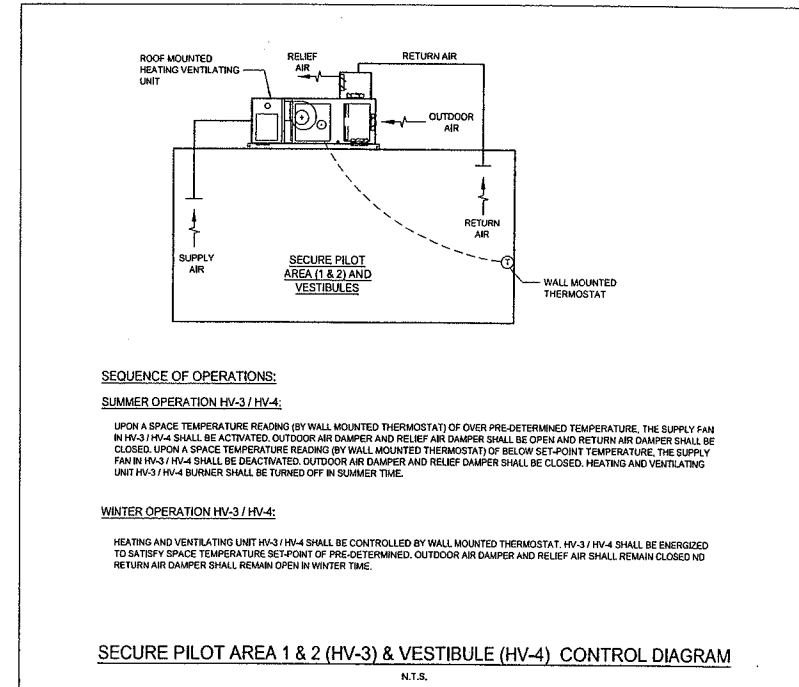
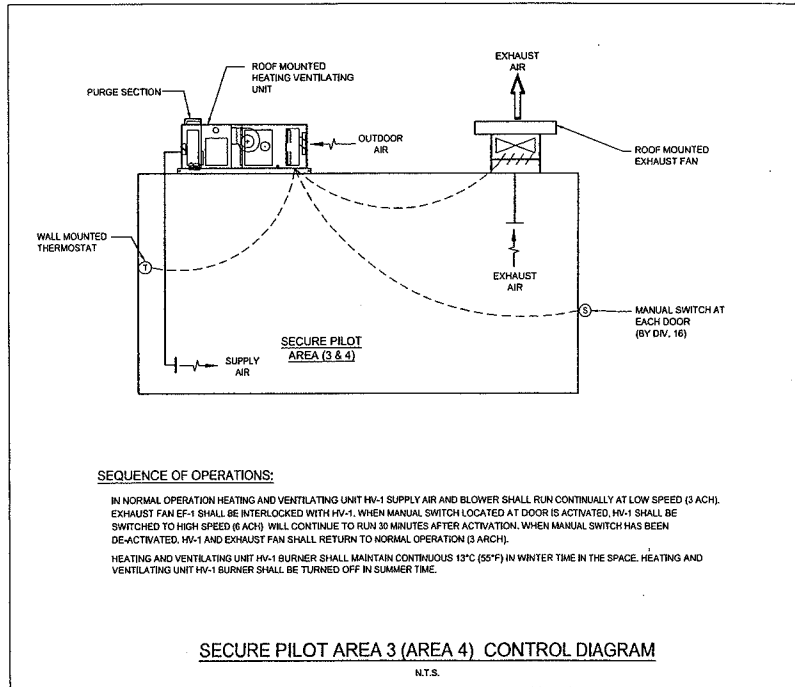
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Scale: 1 : 75  
 750 0 1500mm

PROJECT No. **ES**  
 SHEET No. **M105**  
 PLAN No.

**SOWC-LWF**  
**GREENWAY POLLUTION CONTROL CENTRE**  
**MECHANICAL - PLUMBING**  
**ROOF PLAN**

DRAWN BY: JLV/MS



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					DRAWN BY	20	SOME TOPICAL REVISION	12/20/20	STANTEC			N.T.S.	SOWC-LWF GREENWAY POLLUTION CONTROL CENTRE		ES
					CHECKED BY	20							MECHANICAL CONTROLS DIAGRAMS		M601
					APPROVED BY	20									
					DATE										
					BY/SCALE										

**Stantec Consulting Ltd.**  
171 Queens Avenue  
London ON Canada  
N6A 5J7  
Tel: 519.645.2007  
Fax: 519.645.8575  
www.stantec.com

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ROLE: N.T.S.  
TITLE: SOWC-LWF GREENWAY POLLUTION CONTROL CENTRE  
MECHANICAL CONTROLS DIAGRAMS  
PROJECT NO.: M601  
REVISION: ES

NOTE: ALL ELECTRIC HEATERS ARE SUPPLY BY DIVISION 16

EQUIPMENT SCHEDULE

MARK	DESCRIPTION	SERVICE AREA	DESIGN BASIS	MODEL No	HEATING INPUT (BTUH)	HEATING OUTPUT (BTUH)	COOLING CAPACITY (BTUH)	L/s (CFM)	MOTOR KW (HP)	ELECTRICAL V/PH/Hz	ESP Pa (In. H <sub>2</sub> O)	REMARKS
HV-1	HEATING & VENTILATING	SECURE PILOT AREA 3	ENGINEERED AIR	DJE 20	250,000	200,000	-	1,227 (2,800) HI 614 (1,300) LO	1.50 (2.0)	575/3/60	250 (1.0)	SEE NOTES 1,2,3,4,5,6,7
HV-2	HEATING & VENTILATING	SECURE PILOT AREA 4	ENGINEERED AIR	DJE 20	200,000	260,000	-	944 (2,000) HI 472 (1,000) LO	1.12 (1.5)	575/3/60	250 (1.0)	SEE NOTES 1,2,3,4,5,6,7
HV-3	HEATING & VENTILATING	SECURE PILOT AREA 1 & 2	ENGINEERED AIR	DJE 20	150,000	120,000	-	1,888 (4,000)	2.24 (3.0)	575/3/60	187 (0.75)	SEE NOTES 1,2,3,4,6
HV-4	HEATING & VENTILATING	VESTIBULE	ENGINEERED AIR	DJE 20	150,000	120,000	-	2,124 (4,500)	3.73 (5.0)	575/3/60	187 (0.75)	SEE NOTES 1,2,3,4,6

NOTES:

- INDIRECT GAS FIRED UNIT.
- 3 PASS STAINLESS STEEL DRUM AND TUBE HEAT EXCHANGER.
- HIGH EFFICIENCY GAS BURNER WITH MODULATING COMBUSTION AIR BLOWER.
- PROVIDE FACTORY DISCONNECT SWITCH, FACTORY MOUNTED AND WIRED, NEMA 4.
- UNIT SHALL COME WITH 2 SPEED FAN.
- PROVIDE FACTORY SUPPLIED ROOF CURB WITH MINIMUM 400mm HEIGHT.
- PROVIDE WITH PURGE SECTION.

AIR CONDITIONERS (HEAT PUMP) SCHEDULE

MARK	DESCRIPTION	SERVICE AREA	DESIGN BASIS	MODEL No.	GROSS COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTUH)	TOTAL (TONNE)	ELECTRICAL V/PH/Hz	REMARKS
AC-1,2	AIR CONDITIONER	ELECTRICAL ROOM	MTSUBISHI	PKA-A38KA	36,000	18,000	3	208/160	SEE NOTES 1,2,3,4,5,7,8
CU-1,2	CONDENSER UNIT	ELECTRICAL ROOM	MTSUBISHI	PUZ-HA38NH4	36,000	-	3	208/160	SEE NOTES 2,3,5,6,8

NOTES:

- PROVIDE AND INTERLOCK WITH WALL MOUNTED CONTROLLER (THERMOSTAT), PROVIDED BY UNIT SUPPLIER, (MODEL No. PAR-211AA).
- PROVIDE ALL ACCESSORIES FOR WALL MOUNTING UNIT.
- ALL REFRIGERANT PIPE SIZES ARE PER THE UNIT SUPPLIER RECOMMENDATION.
- INSULATE ALL CONDENSATE PIPES, (ALL HARD CONNECTIONS).
- INSULATE ALL REFRIGERANT PIPES.
- INTERLOCK WITH INDOOR WALL MOUNTED CONTROLLER TO CONTROL INDOOR AC UNIT.
- SCHEDULE UNITS AC-1 & AC-2 TO ALTERNATE ON REGULAR OPERATION TO ENSURE CONTINUITY.
- PROVIDE WITH ULTRA LOW AMBIENT CONTROLS AND ALL WIND SCREENS (FRONT, REAR & SIDE).

EXHAUST/SUPPLY FAN SCHEDULE

MARK	DESCRIPTION	SERVICE AREA	DESIGN BASIS	MODEL No.	DRIVE	L/s (CFM)	SP Pa (In. H <sub>2</sub> O)	FRPM	MOTOR W (HP)	ELECTRICAL V/PH/Hz	REMARKS
EF-1	ROOF EXHAUST FAN	SECURE PILOT AREA 3	GREENHECK	CUBE-181-S	BELT	1,227 (2,800) HI 614 (1,300) LO	63 (0.25)		0.373 (0.5)	575/3/60	SEE NOTES 2,3,4
EF-2	ROOF EXHAUST FAN	SECURE PILOT AREA 4	GREENHECK	CUBE-161-A	BELT	944 (2,000) HI 472 (1,000) LO	63 (0.25)		0.119 (0.25)	120/160	SEE NOTES 2,3,4
SF-1	SIDEWALL SUPPLY FAN	VESTIBULE	GREENHECK	SSI-10	DIRECT	127 (270)	63 (0.25)	1650	0.037 (0.05)	120/160	SEE NOTES 1,2,5

NOTES:

- PROVIDE FACTORY DISCONNECT SWITCH, FACTORY MOUNTED AND WIRED, NEMA-3R.
- PROVIDE MOTOR WITH THERMAL OVERLOADS.
- PROVIDE FACTORY DISCONNECT SWITCH, FACTORY MOUNTED AND WIRED NEMA-7.
- PROVIDE EXPLOSION PROOF MOTOR CLASS 1, DIVISION 1, GROUP C AND D.
- PROVIDE WALL HOUSING, FRONT AND DRIVE SIDE PROTECTIVE GUARDS AND ALL MOUNTING ACCESSORIES.

GRILLE SCHEDULE

MARK	DESCRIPTION	SERVICE AREA	DESIGN BASIS	MODEL No.	SIZE	L/s (CFM)	REMARKS
SAG-1	SUPPLY AIR GRILLE	SECURE PILOT AREA 4	E.H. PRICE	720D	300x300	315 (697)	SEE NOTES 1,2
SAG-2	SUPPLY AIR GRILLE	SECURE PILOT AREA 3	E.H. PRICE	720D	350x300	409 (887)	SEE NOTES 1,2
SAG-3	SUPPLY AIR GRILLE	SECURE PILOT AREA 1 & 2	E.H. PRICE	720D	350x200	236 (500)	SEE NOTES 1,2
SAG-4	SUPPLY AIR GRILLE	VESTIBULE	E.H. PRICE	720D	350x300	354 (750)	SEE NOTES 1,2
RAG-1	RETURN AIR GRILLE	SECURE PILOT AREA 1 & 2	E.H. PRICE	720D	600x300	472 (1000)	SEE NOTES 1,3
RAG-2	RETURN AIR GRILLE	VESTIBULE	E.H. PRICE	720D	400x400	354 (750)	SEE NOTES 1,3
RAG-3	RETURN AIR GRILLE	VESTIBULE	E.H. PRICE	720D	600x500	706 (1500)	SEE NOTES 1,3
EAG-1	EXHAUST AIR GRILLE	SECURE PILOT AREA 4	E.H. PRICE	720D	500x250	307 (650)	SEE NOTES 1,2
EAG-2	EXHAUST AIR GRILLE	SECURE PILOT AREA 3	E.H. PRICE	720D	550x200	238 (500)	SEE NOTES 1,2

NOTES:

- SUPPLY AIR AND RETURN GRILLES BASIS OF DESIGN 700 SERIES.
- ALL SUPPLY AIR GRILLES SHALL BE DOUBLE DEFLECTION CONSTRUCTED ENTIRELY OF TYPE 316L STAINLESS STEEL OPPOSED BLADE DAMPER & SECURING HARDWARE.
- ALL RETURN GRILLES SHALL COME WITH STAINLESS STEEL OPPOSED BLADE VOLUME CONTROL DAMPER.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	PIPE SIZE					REMARKS
		C.W.	H.W.	T.W.	DRAIN	VENT	
SK	SINK	12 (3/4")	12 (3/4")		38 (1 1/2")	32 (1 1/4")	
FD	FLOOR DRAIN				75 (3")		TRAP SEAL PRIMER
E/SHW-1	EMERGENCY SHOWER/ EYEWASH			32 (1 1/4")			
TM-1	TEMPERED WATER MIXING VALVE	32 (1 1/4")	32 (1 1/4")	32 (1 1/4")			

NOTES:

ALL PLUMBING FIXTURE SCHEDULE AS OF LATEST EDITION OF ONTARIO BUILDING CODE.

PLUMBING EQUIPMENT SCHEDULE

MARK	DESCRIPTION	SERVICE AREA	DESIGN BASIS	MODEL No	SIZE LITRE (GAL)	INPUT (BTUH)	ELECTRICAL V/PH/Hz	REMARKS
GWH-1,2,3,4	NATURAL GAS EMERGENCY INSTANTANEOUS WATER HEATER	SECURE PILOT AREA'S EMERGENCY SHOWER / FACE EYEWASH	NORITZ	NC381-SV-ASM-ENG	-	380,000	120/160	SEE NOTE 1,2
GWH-5	NATURAL GAS DOMESTIC INSTANTANEOUS WATER HEATER	SECURE PILOT AREAS SINKS	NORITZ	NC199-DVC-NG	-	199,000	120/160	SEE NOTE 1,2

NOTE:

- USE WITH TEMPERED WATER MIXING VALVE. DESIGN BASIS HAWS MODEL No. 8202 WITH S16 CABINET HAWS MODEL No. 9205BUR.
- WATER HEATER SHALL COME WITH POWER VENT. PROVIDE 125 DIA. CATEGORY III STAINLESS STEEL VENT PIPE THRU. SIDE WALL WITH WEATHER CAP.

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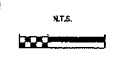
EXISTING SERVICES	DRAWING SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE FORWARDED	CONSULTANT	CONSULTANT OR DESIGN	DESIGNER'S STAMP	SCALE	IF/2	PROJECT No.	SHEET No.
					REVISION	1	BRACKET REVISION	11-12-12	STANTEC			N.T.S.		SOWC-LWF GREENWAY POLLUTION CONTROL CENTRE	ES
					DATE									MECHANICAL SCHEDULES	M602



Stantec Consulting Ltd.  
171 Queens Avenue  
London, ON Canada  
N6A 5J7  
Tel: 519.645.2007  
Fax: 519.645.6575  
www.stantec.com



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SOWC-LWF  
GREENWAY POLLUTION CONTROL CENTRE  
MECHANICAL  
SCHEDULES

PROJECT No.  
ES  
SHEET No.  
M602  
PLUMBING No.

LAYOUT & PLANS		ELECTRICAL LEGEND		SINGLE LINE DIAGRAMS / POWER SCHEMATICS		CONTROL SCHEMATICS		LINETYPES		ABBREVIATIONS							
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION						
	MOTOR		SECURITY KEYPAD		POWER CIRCUIT BREAKER (PCB) M - MOTOR OPERATED (EOP)		UNIT HEATER (24)		DUPLEX RECEPTACLE		TEMPERATURE SWITCH, NORMALLY OPENED		ON TIME DELAY CONTACT NORMALLY OPENED		POWER CONTROL DEVICE/EQUIPMENT REMOVALS		ABOVE FINISHED FLOOR
	DAMPER MOTOR		MOTION/OCCUPANCY SENSOR		DRAW-OUT POWER CIRCUIT BREAKER (DOP-PCB) M - MOTOR OPERATED (EOP)		UNIT HEATER (14)		FOURPLEX RECEPTACLE		TEMPERATURE SWITCH, NORMALLY CLOSED		ON TIME DELAY CONTACT NORMALLY CLOSED		POWER CONTROL DEVICE/EQUIPMENT EXISTING		COMPLETE WITH CUSTOMER METERING
	DISCONNECT SWITCH, NON FUSED		DOOR SENSOR		MOULDED CASE SWITCH (MCS) OR MOULDED CASE CIRCUIT BREAKER (MCCB)		MOTOR ACTUATED VALVE CW/PWR STARTER		EMERGENCY EXIT SIGN		PRESSURE SWITCH, NORMALLY OPENED		OFF TIME DELAY CONTACT NORMALLY OPENED		EXISTING CONTROL DEVICE/EQUIPMENT		CONTROL PANEL STATION
	DISCONNECT SWITCH, FUSED		TELEPHONE OUTLET		MOULDED CASE CIRCUIT BREAKER (MCCB) w/ THERMAL/MAGNETIC TRIP		SPECIAL PURPOSE PLUG & RECEPTACLE DISCONNECT RATED		EMERGENCY EXIT LIGHTING COMBINATION UNIT		PRESSURE SWITCH, NORMALLY CLOSED		OFF TIME DELAY CONTACT NORMALLY CLOSED		NEW CONTROL DEVICE/EQUIPMENT		DISCONNECT SWITCH
	ENOLOISED CIRCUIT BREAKER		COMBINED TELEPHONE AND ETHERNET OUTLET		MAGNETIC-ONLY MOULDED CASE CIRCUIT BREAKER OR MOTOR CIRCUIT PROTECTOR (MCP)		CURRENT TRANSFORMER (CT)		INDOOR FIXTURE		FLOW SWITCH, NORMALLY OPENED		PUSH BUTTON SELECTOR SWITCH 2nd CONTACT NORMALLY OPENED		POWER CONTROL DEVICE/EQUIPMENT REMOVALS		LOCAL REMOTE
	LINE VOLTAGE SWITCH		LIGHTING PANEL BOARD		MOULDED CASE CIRCUIT BREAKER (MCCB) w/ SOLID STATE TRIP UNIT		POTENTIAL VOLTAGE TRANSFORMER (PT/V)		OUTDOOR WALL-PACK FIXTURE		FLOW SWITCH, NORMALLY CLOSED		PUSH BUTTON SELECTOR SWITCH 2nd CONTACT NORMALLY CLOSED		POWER CONTROL DEVICE/EQUIPMENT EXISTING		LONGSIGHT INSTANTANEOUS GROUND
	MANUAL MOTOR STARTER				DISCONNECT (ISOLATION) SWITCH (DIS)		POWER TRANSFORMER (T)		INDOOR FLUORESCENT FIXTURE		LEVEL SWITCH, NORMALLY OPENED		PUSH BUTTON - MUSHROOM HEAD NORMALLY OPENED, MAINTAINED		POWER CONTROL DEVICE/EQUIPMENT TEXT REMOVALS		MODBUS OPEN/CLOSE
	MANUAL MOTOR STARTER CW PLOT LIGHT				LOADBREAK (INTERRUPTER) SWITCH (LBS) - MEDIUM VOLTAGE		POWER AUTOTRANSFORMER (AT)				LEVEL SWITCH, NORMALLY CLOSED		PUSH BUTTON - MUSHROOM HEAD NORMALLY CLOSED, MAINTAINED		POWER CONTROL DEVICE/EQUIPMENT TEXT NEW		OPEN/OFF/CLOSE
	SWITCH CW PILOT LIGHT				FUSE (FU)		CAPACITOR				LIMIT SWITCH, NORMALLY OPENED		SELECTOR SWITCH - 2 POSITION NORMALLY OPENED		CONDUITS/WIREWAYS REMOVALS		D/C/D/C
	CONTROLLER / STARTER				MEDIUM VOLTAGE FUSE CUT-OUT OR LOW VOLTAGE FUSE - SWITCHED		INDUCTOR / REACTOR				LIMIT SWITCH, NORMALLY CLOSED		SELECTOR SWITCH - 2 POSITION NORMALLY CLOSED		CONDUITS/WIREWAYS EXISTING		P/B
	CONTROL STATION				FUSED DISCONNECT SWITCH (FS)		DETUNED CAPACITOR BANK, SINGLE-TUNED HARMONIC FILTER				LIMIT SWITCH - HELD CLOSED		SELECTOR SWITCH - 3 POSITION NORMALLY OPENED		CONDUITS/WIREWAYS NEW		P/B
	JUNCTION BOX				SWITCH-RATED PLUG/RECEPTACLE (SPI) PLUG & RECEPTACLE (A/C/D) (PR)		4-WIRE FILTER (RL FILTER)				LIMIT SWITCH - HELD OPENED		SELECTOR SWITCH - 3 POSITION NORMALLY CLOSED		UNDERGROUND CONDUITS/WIREWAYS REMOVALS		P/B
	UNIT HEATER				MANUAL STARTER DISCONNECT SWITCH (MS)		DIGITAL RELAY/METER/CONTROLLER				LED - INDICATING LIGHT "A" AMBER, "B" BLUE, "C" GREEN, "R" RED, "W" WHITE, "Y" YELLOW		DEVICE NET T-CONNECTOR		UNDERGROUND CONDUITS/WIREWAYS EXISTING		DN
	MOTOR ACTUATED VALVE				MAGNETIC STARTER w/ OVERLOAD RELAY (MVAR, PWR, TSM, TSMW) LOCAL CONTROL: HOA, RL, SS, OO, FR, OC		ANALOG RELAY/METER/CONTROLLER				COL - CONTROL RELAY, TMR, STARTER/CONTACTOR		DEVICE NET TERMINATING RESISTOR		GROUND WIRING		EN
	SPECIAL PURPOSE PLUG & RECEPTACLE DISCONNECT RATED				REDUCE VOLTAGE SOFT STARTER (RVSS) w/ INTERNAL BYPASS SWITCH LOCAL CONTROL: HOA, RL, SS, OO, FR, OC		LIGHTING PANEL				CONTROL RELAY, TMR, STARTER/CONTACTOR, BREAKER AUX, DISCONNECT AUX, NORMALLY OPENED CONTACT		DEVICE NET POWER TAP		BONDING WIRING		FD
	SMOKE DETECTOR				VARIABLE FREQUENCY DRIVE (VFD) (W/VT, H/ACT)						CONTROL RELAY, TMR, STARTER/CONTACTOR, BREAKER AUX, DISCONNECT AUX, NORMALLY CLOSED CONTACT		GC PCAT PLUG-IN CONNECTOR		SYSTEM GROUND		FB
	THERMOSTAT				INDUCTION MOTOR (24)						PLC INPUT DI DISCRETE AI ANALOG PI PULSE		CONTROL NET T-CONNECTOR		NEW ETHERNET WIRING		SL
					INDUCTION MOTOR (14)						PLC OUTPUT DO DISCRETE AO ANALOG PO PULSE		CONTROL NET TERMINATING RESISTOR		EXISTING ETHERNET WIRING		TP
					SYNCHRONOUS MOTOR						PLC RELAY/DISCRETE OUTPUT NORMALLY OPENED				NEW FIBER OPTIC WIRING		FP
					BRUSHLESS SYNCHRONOUS MOTOR						PLC RELAY/DISCRETE OUTPUT NORMALLY CLOSED				EXISTING FIBER OPTIC WIRING		FT

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					CHECKED SSS									
					APPROVED SSS									
					DATE 12.11.22									
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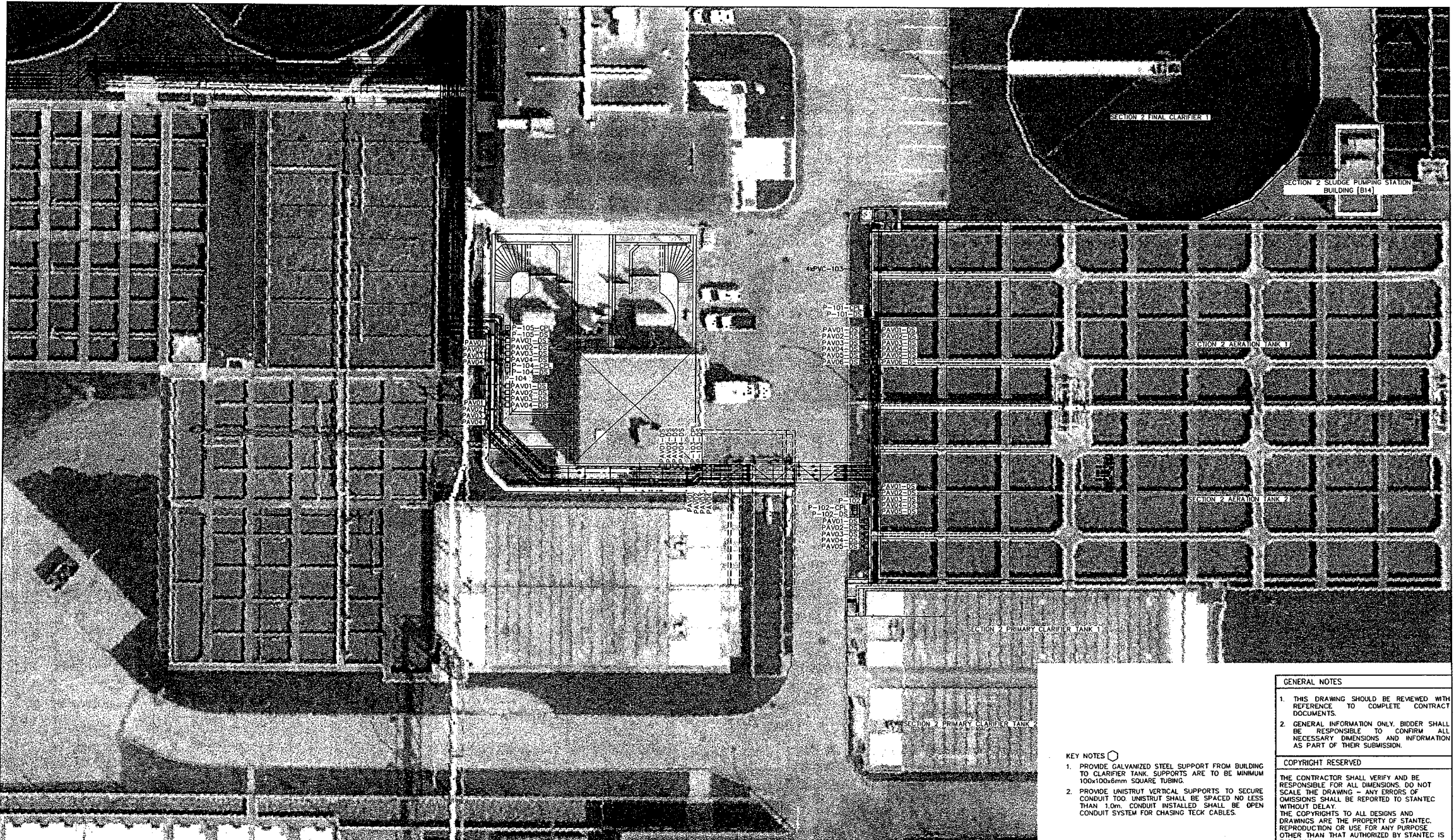
**London CANADA**

**SOWC-LWF**  
GREENWAY POLLUTION CONTROL CENTRE

**ELECTRICAL LEGEND AND ABBREVIATIONS**

PROJECT No. **ES1721**  
SHEET No. **GPCC-E001**  
PLANT FILE No.

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**KEY NOTES**

- PROVIDE GALVANIZED STEEL SUPPORT FROM BUILDING TO CLARIFIER TANK. SUPPORTS ARE TO BE MINIMUM 100x100x6mm SQUARE TUBING.
- PROVIDE UNISTRUT VERTICAL SUPPORTS TO SECURE CONDUIT TOO. UNISTRUT SHALL BE SPACED NO LESS THAN 1.0m. CONDUIT INSTALLED SHALL BE OPEN CONDUIT SYSTEM FOR CHASING TECK CABLES.

Date: 2017/12/20 12:48 PM User: Ebanon, Greg  
 File: \\stntec\projects\London\Greenway\ES1721\ES1721-E101.dwg

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Project No. 105500726




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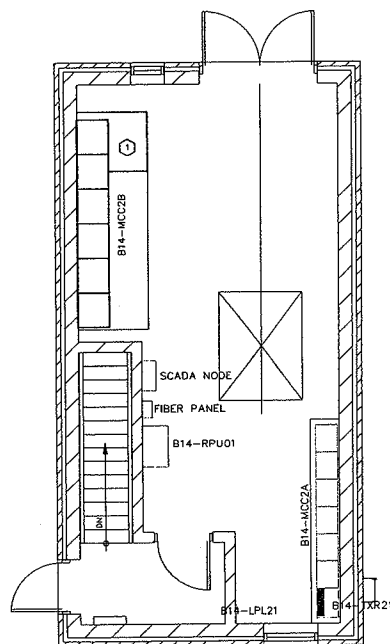
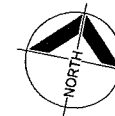
TITLE

SOWC-LWF  
 GREENWAY POLLUTION CONTROL CENTRE

OVERALL PLAN  
 ELECTRICAL SERVICING

PROJECT NO. ES1721  
 SHEET NO. GPC-E101  
 PLAN FILE NO.





**GENERAL NOTES**

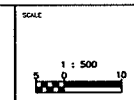
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**KEY NOTES**

1. CONTRACTOR TO EXTEND CONCRETE MAINTENANCE PAD. TO ACCOMMODATE NEW B14-MCC2B.



PROJECT No.	ES1721
SHEET No.	
PLAN FILE No.	GPCC-E110
TITLE	SOWC-LWF GREENWAY POLLUTION CONTROL CENTRE  BUILDING B14 ELECTRICAL FLOOR PLAN

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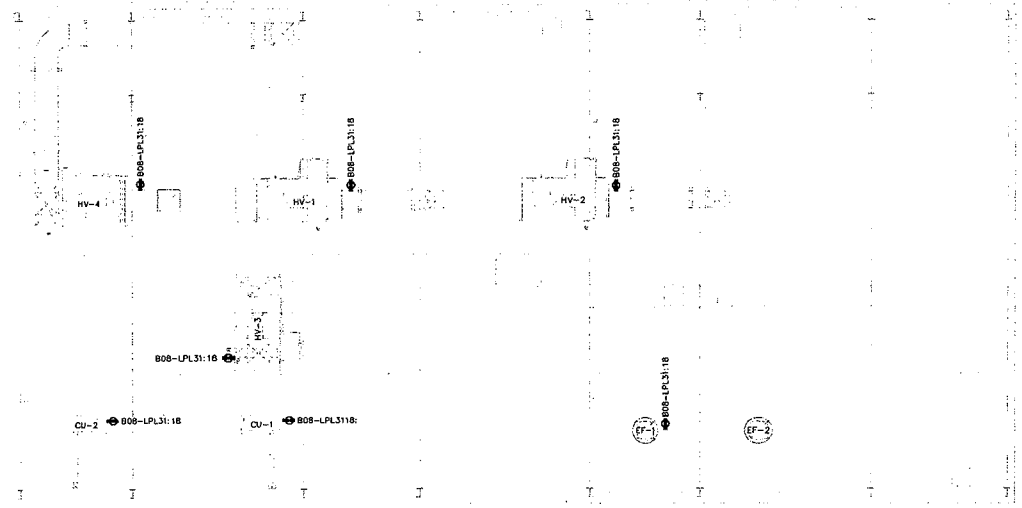
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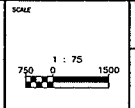
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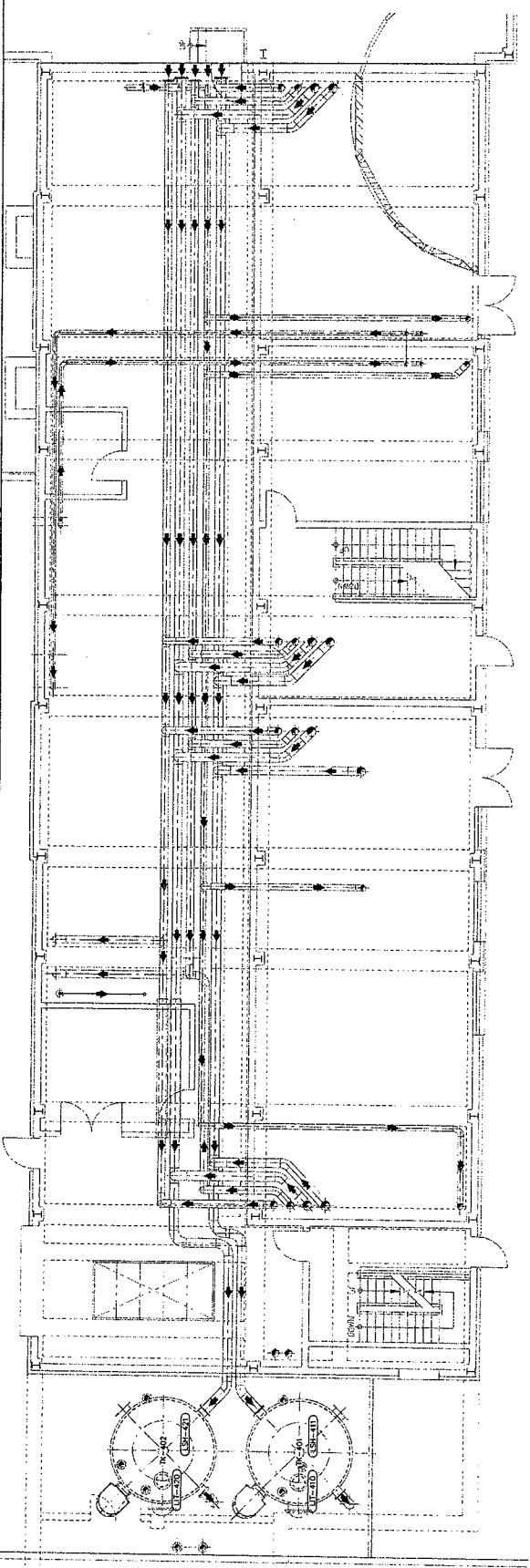
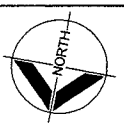
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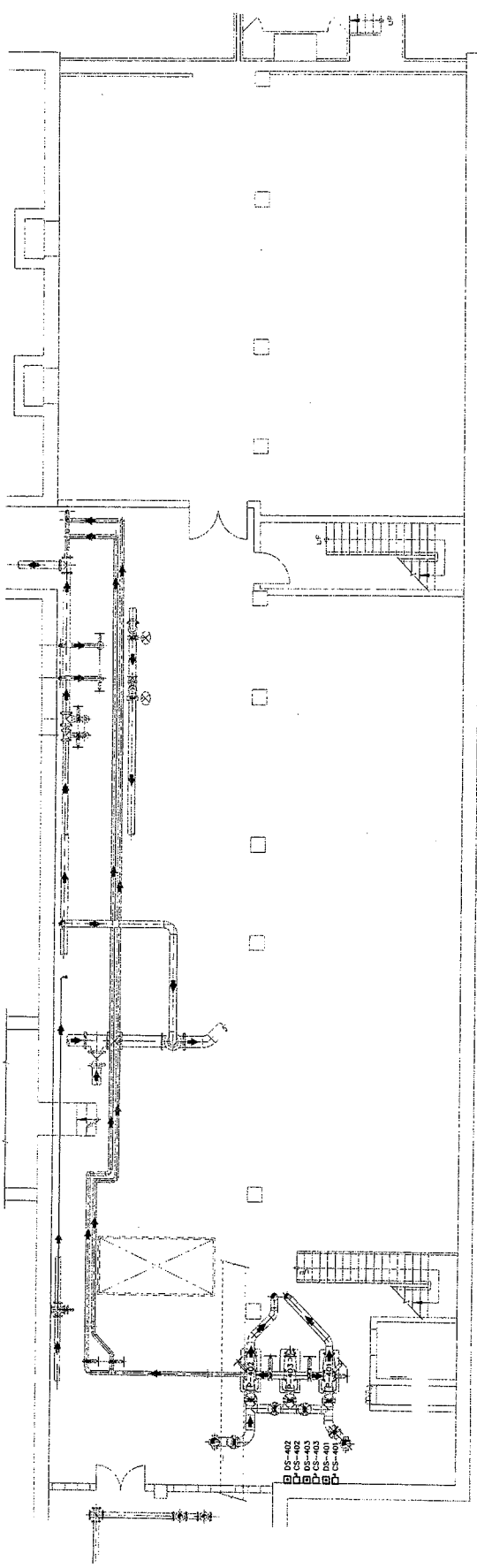
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PROJECT No. ES1721  
 SHEET No.  
 BUILDING B08  
 ROOF PLAN  
 PLAN FILE No. GPCC-E121



1 BUILDING B08 PROCESS LOADS  
SCALE 1:75



2 BUILDING B08 BUILDING SERVICES  
SCALE 1:75

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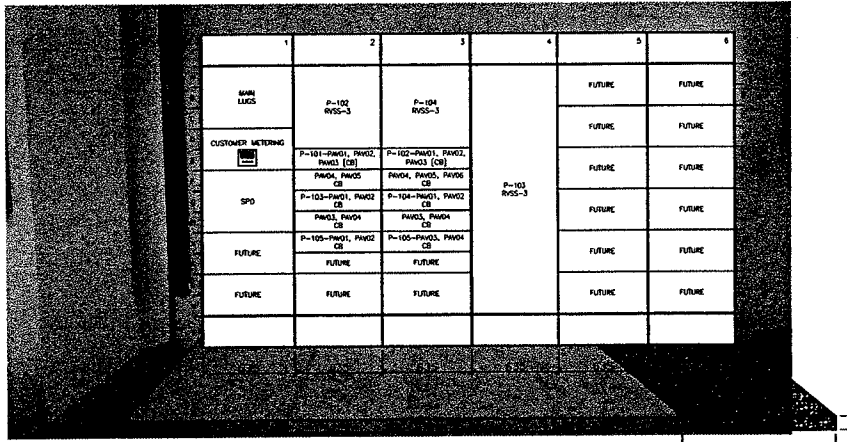
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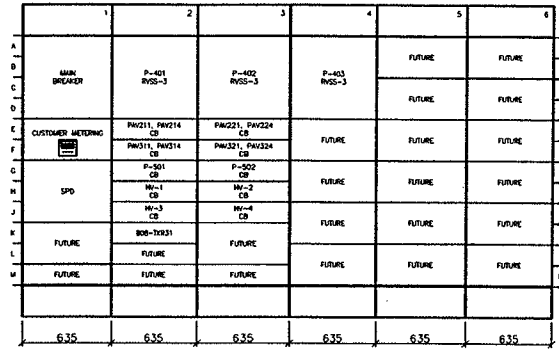


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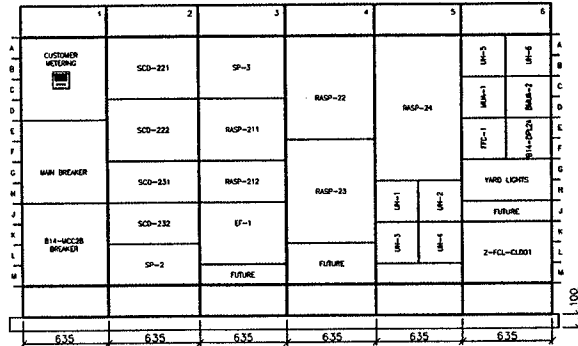
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PROPOSED B14-MCC2B ELEVATION  
TYPICAL FOR B14-MCC2B (scale 1:20)



PROPOSED B08-MCC3A ELEVATION  
TYPICAL FOR B08-MCC3A (scale 1:20)



EXISTING B14-MCC2A ELEVATION  
TYPICAL FOR B14-MCC2A (scale 1:20)

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					DATE	12/15/11				
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1 : 20

TITLE

SOWC-LWF  
GREENWAY POLLUTION CONTROL CENTRE

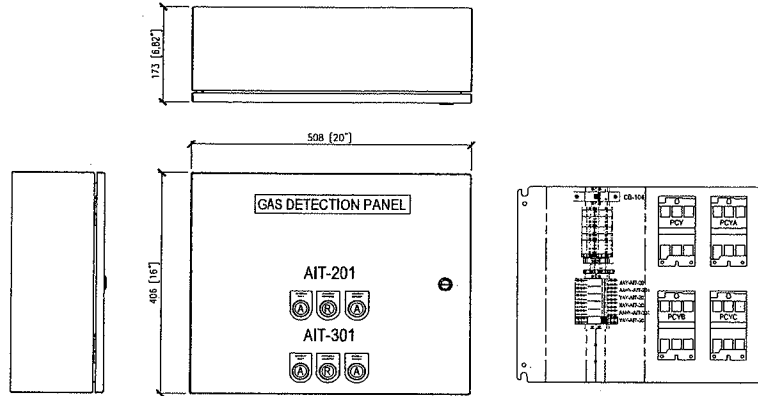
MCC  
ELEVATIONS

PROJECT No. ES1721

SHEET No. GPCC-E501

PLOT FILE No.

CP-104 BILL OF MATERIALS (ALL MATERIALS AS PER SPECIFICATION)		
TAG	QTY	DESCRIPTION
CB-104	1	BRANCH PROTECTION MINATURE CIRCUIT BREAKER 1-POLE CIRCUIT BREAKER 10A, 120/240VAC, 50/60HZ, 10KA SC THERMAL-MAGNETIC TRIP, CURVE KM
7B	AS REQ.	DISCONNECT DOUBLE-LEVEL 30A GREY, 26-10 AWG MODULAR SCREW TERMINAL BLOCK, DOUBLE-LEVEL, DISCONNECT & FEED-THROUGH
FU1 FU2 FU3 FU4	4	FUSE BLOCK 6.3A BLACK, 26-10 AWG UNIVERSAL MODULAR SCREW TERMINAL BLOCK, FUSE
FU5 FU6	2	FUSE BLOCK 10A BLACK, 26-10 AWG UNIVERSAL MODULAR SCREW TERMINAL BLOCK, FUSE
YAY-693 AAY-693 YAY-693X AY-694 AAY-694 YAY-694	6	PLC SERIES INTERFACE PST RELAY 120VAC COIL 3 FORM C, 250VAC, 1500W
	AS REQ.	END BRACKET - ENG 35 N ACCESSORY END BRACKET GRAY, FOR THE NS 35 DIN RAIL 9.5MM WIDTH
PCY	4	FULL VOLTAGE NON-REVERSING CONTACTOR NEMA 1 120VAC COIL, 1NO/1NC AUX CONTACTS 3NO POWER POLES
XAL-693 ALH-693 YLA-693 XAL-694 ALH-694 YLA-694	6	LED PILOT LIGHT - PUSH TO TEST 30.5mm 120VAC/DC, COLOUR AS REQUIRED
	1	ENCLOSURE PAINTED STEEL CSANEMA 12, WALL MOUNT, SINGLE DOOR 1614x207Wx61D, C/W 3-POINT HANDLE & PRINT POCKET
	1	BACKPLATE



GAS DETECTION PANEL  
TYPICAL FOR AIT-201 & AIT-301 (scale 1:5)

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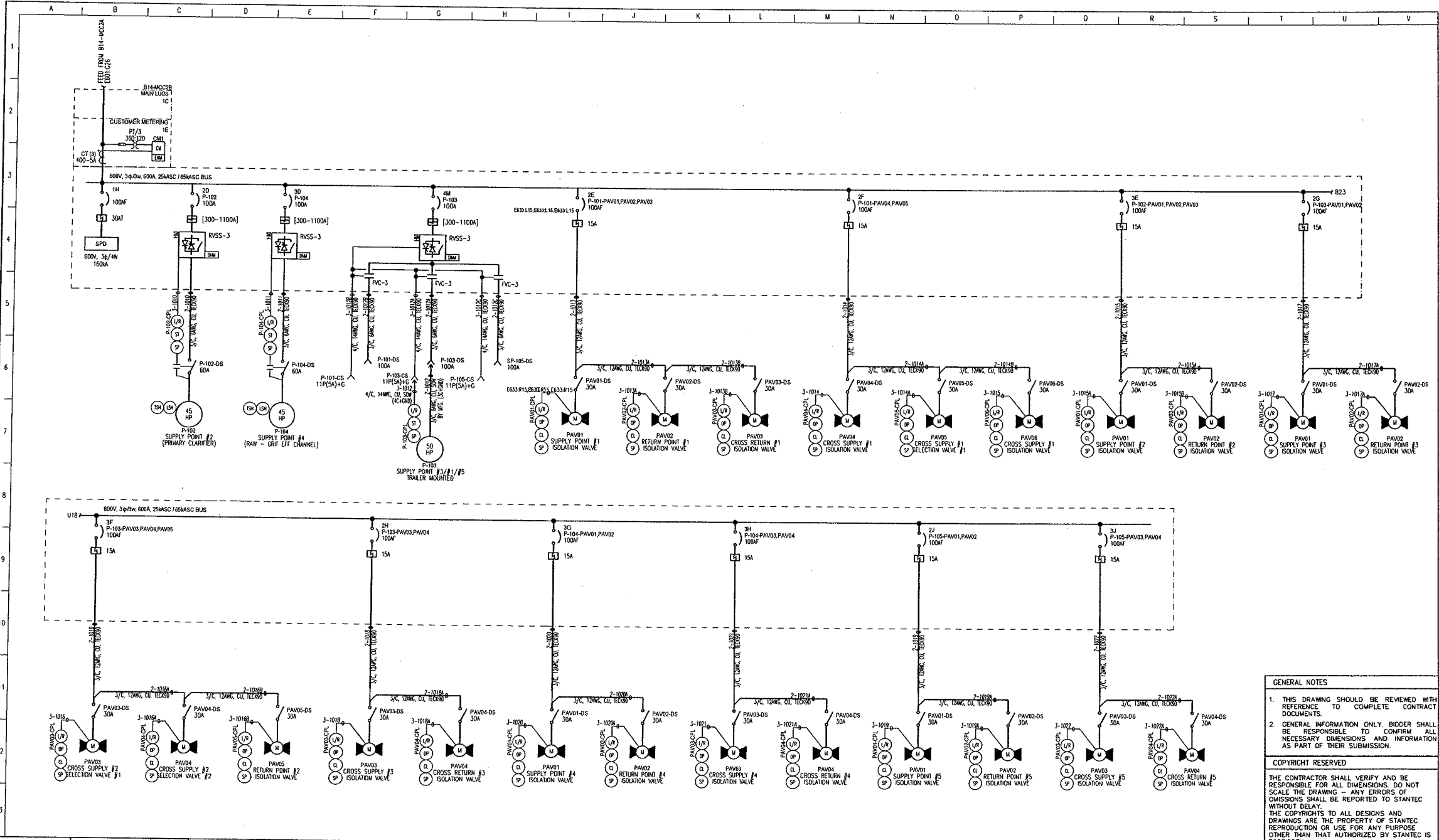
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SCALE

TITLE

**SOWC-LWF**  
 GREENWAY POLLUTION CONTROL CENTRE

**SINGLE-LINE DIAGRAM**  
**B14-MCC2B**

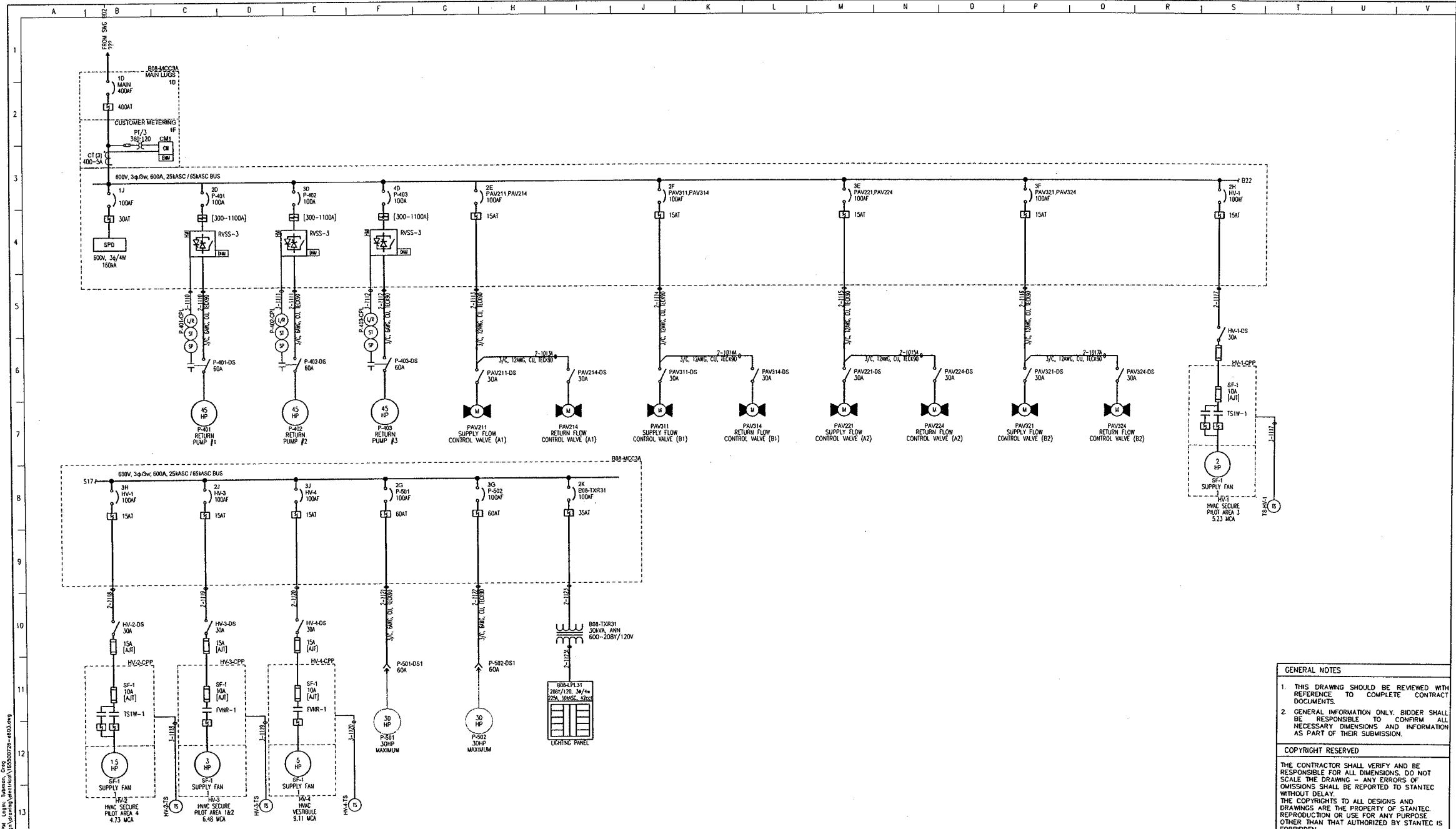
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SHEET No.

**GPCC-E602**

PLAN FILE No.





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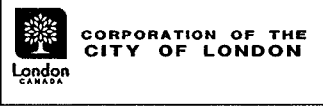
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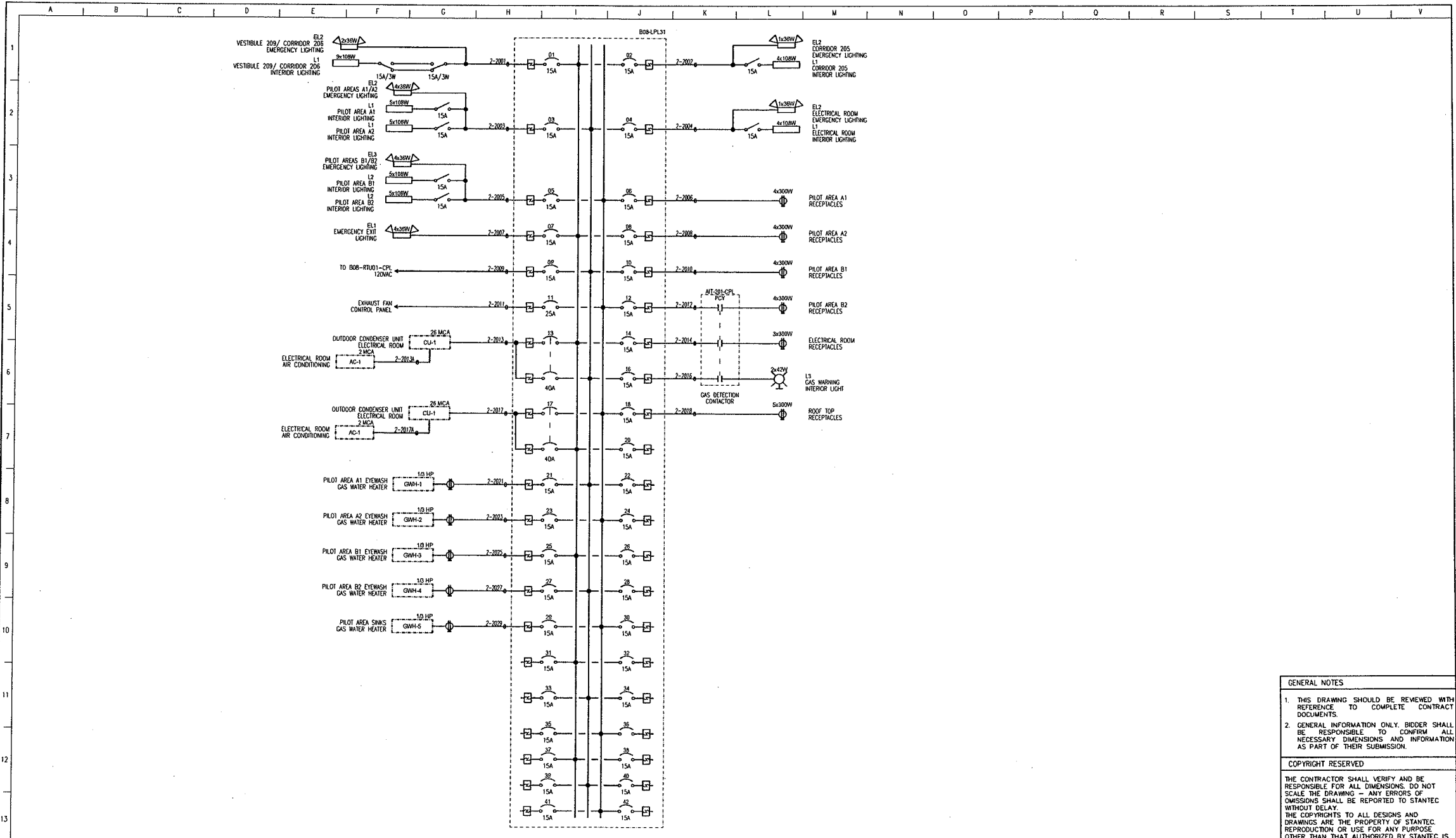
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		SOWC-LWF GREENWAY POLLUTION CONTROL CENTRE B08-MCC3A	ES1721
		SINGLE-LINE DIAGRAM	SHEET No.
		B08-MCC3A	GPCC-E603
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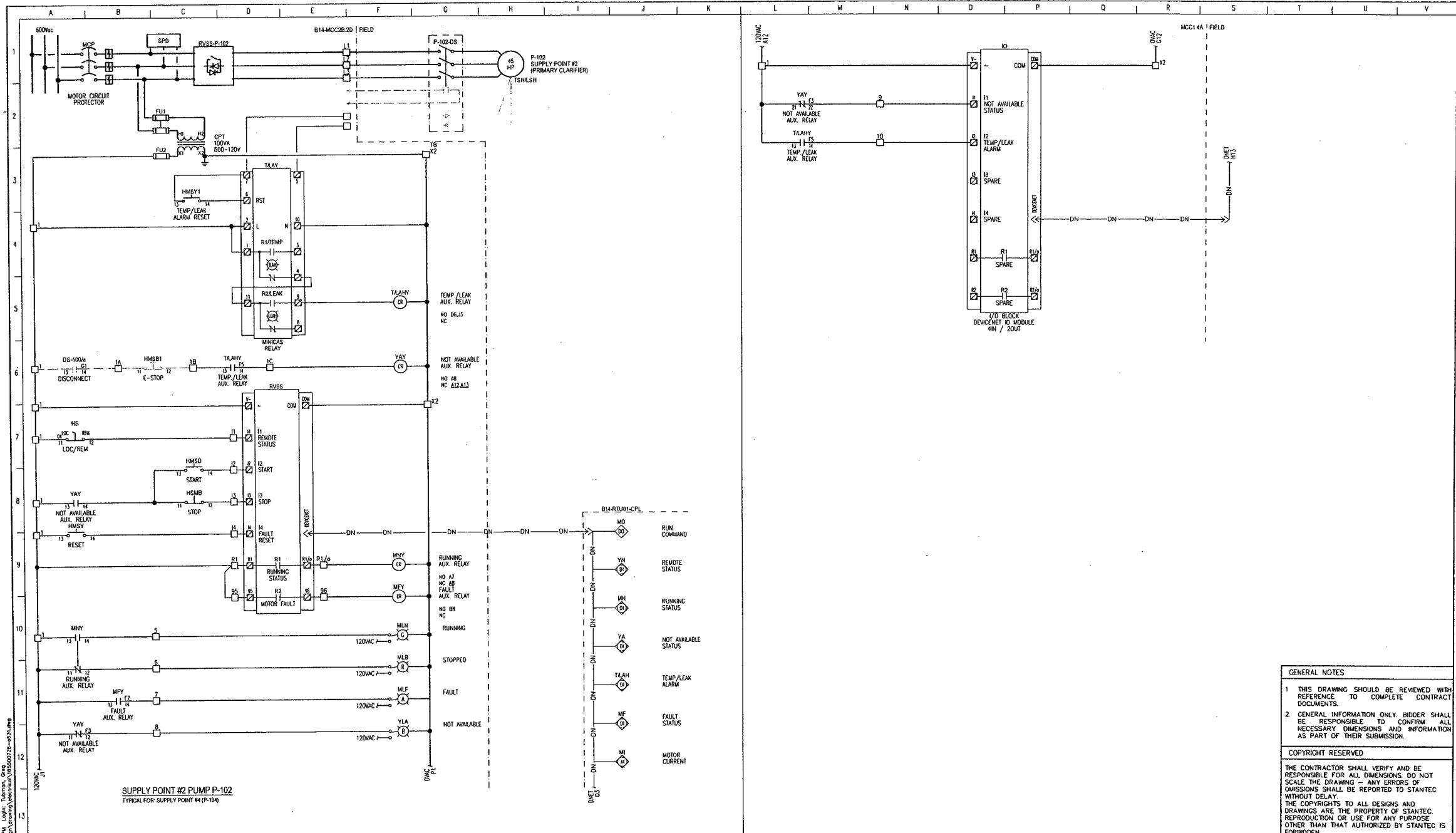
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GREENWAY POLLUTION CENTRE**

**SINGLE-LINE DIAGRAM  
B08-LPL31**

PROJECT No. **ES1721**

SHEET No. **GPCC-E611**

PLAN FILE No.



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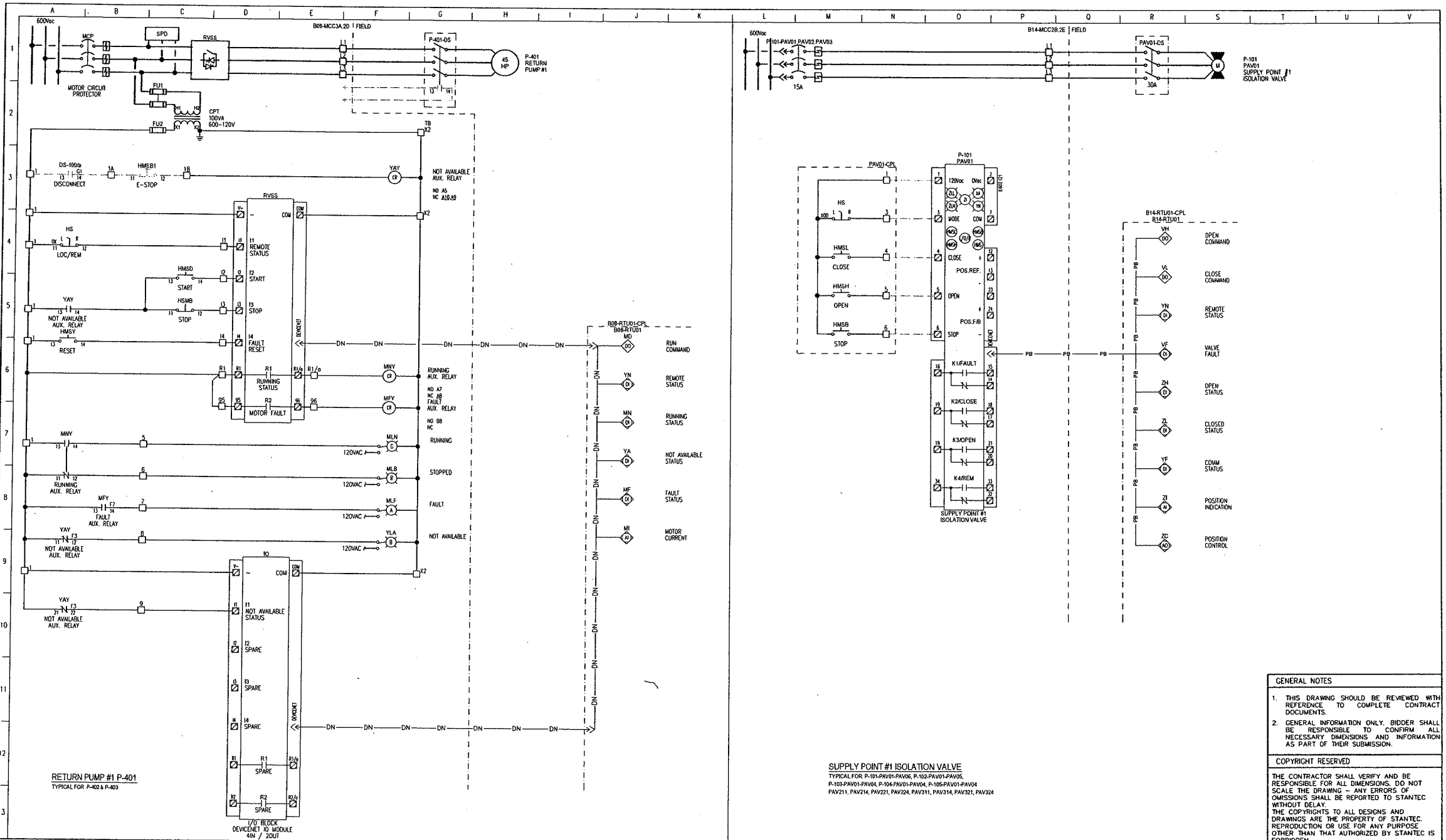
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						DRAWN BY	ST							CONTROL SCHEMATIC SUPPLY POINT #2 PUMP	GPCC-E631		
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SHEET No. GPCC-E631  
PLAN FILE No.

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PROJECT NO.	ES1721
SHEET NO.	GPCC-E633
PLAN FILE NO.	

**SUPPLY POINT #1 ISOLATION VALVE**  
 TYPICAL FOR P-101-PAV01-PAV06, P-102-PAV01-PAV06,  
 P-103-PAV01-PAV04, P-104-PAV01-PAV04, P-105-PAV01-PAV04,  
 PAV211, PAV214, PAV221, PAV224, PAV311, PAV314, PAV321, PAV324

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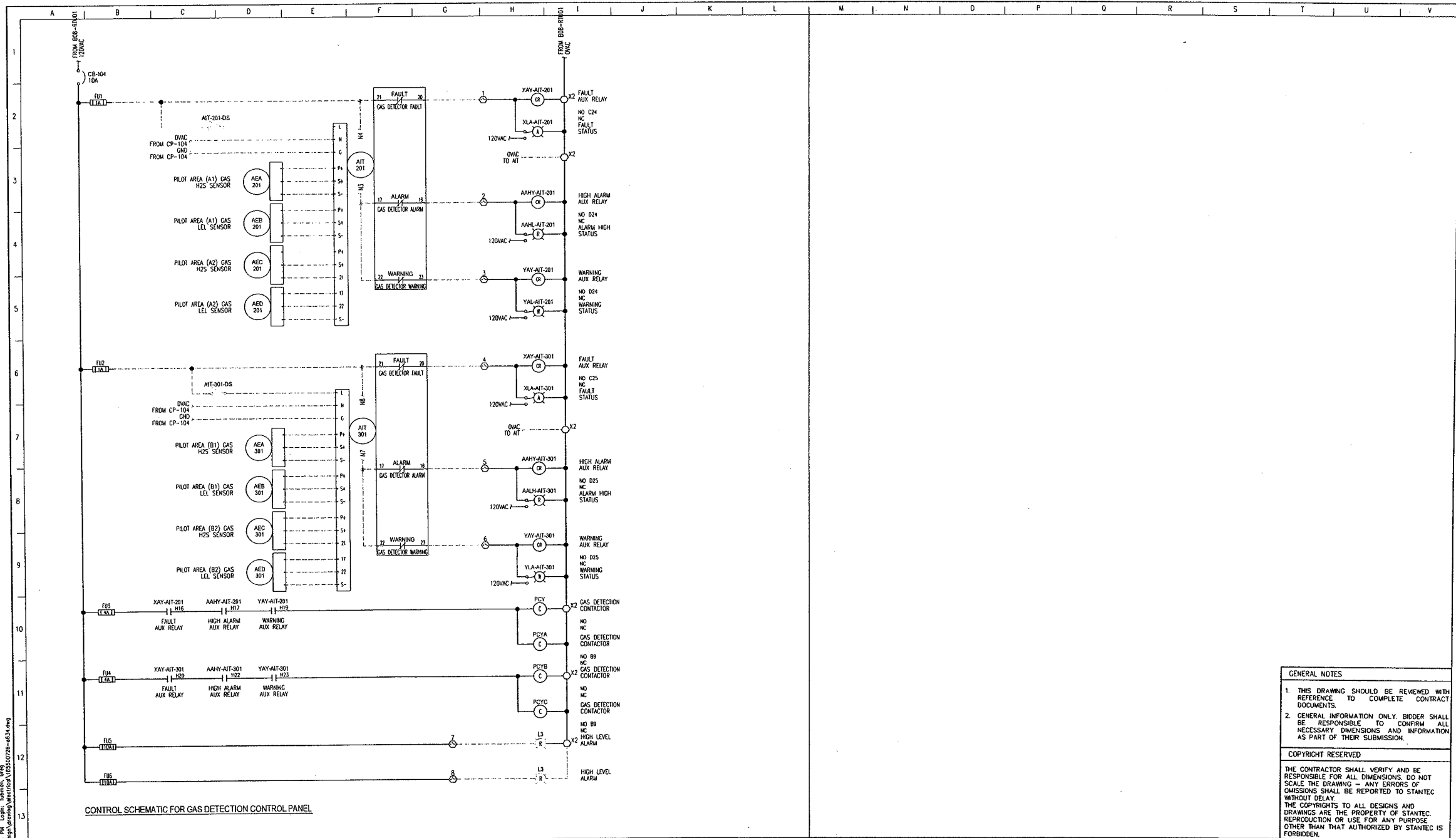
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TITLE

SOWC-LWF  
 GREENWAY POLLUTION CONTROL CENTRE

CONTROL SCHEMATIC RETURN PUMP #1  
 & SUPPLY POINT #1 ISOLATION VALVE

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CONTROL SCHEMATIC FOR GAS DETECTION CONTROL PANEL

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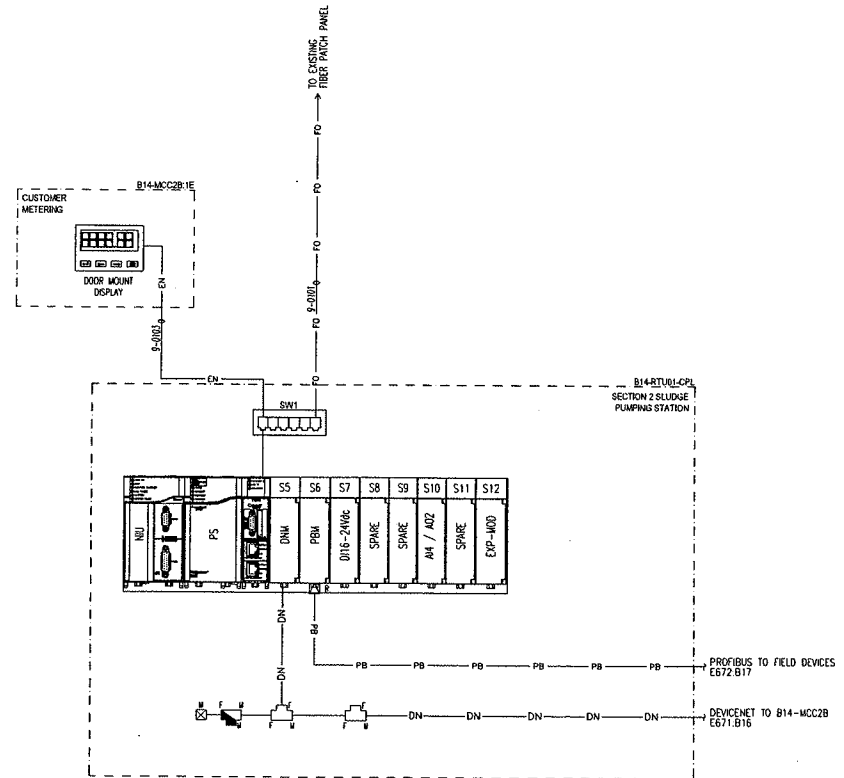
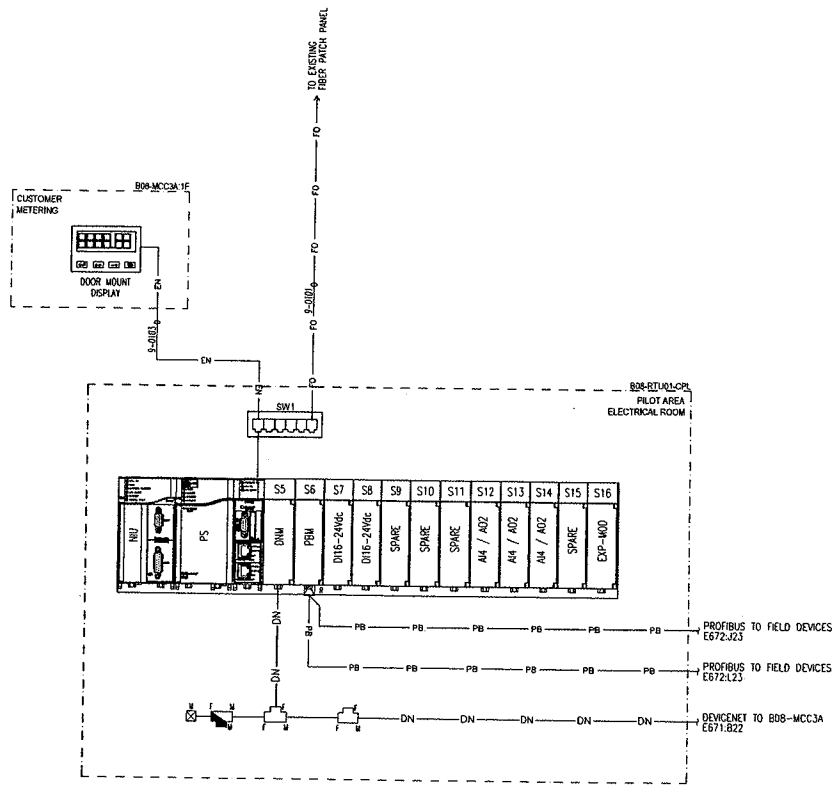
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SHEET NO. CONTROL SCHEMATIC GAS DETECTION SYSTEM

PLAN FILE NO. GPCC-E634

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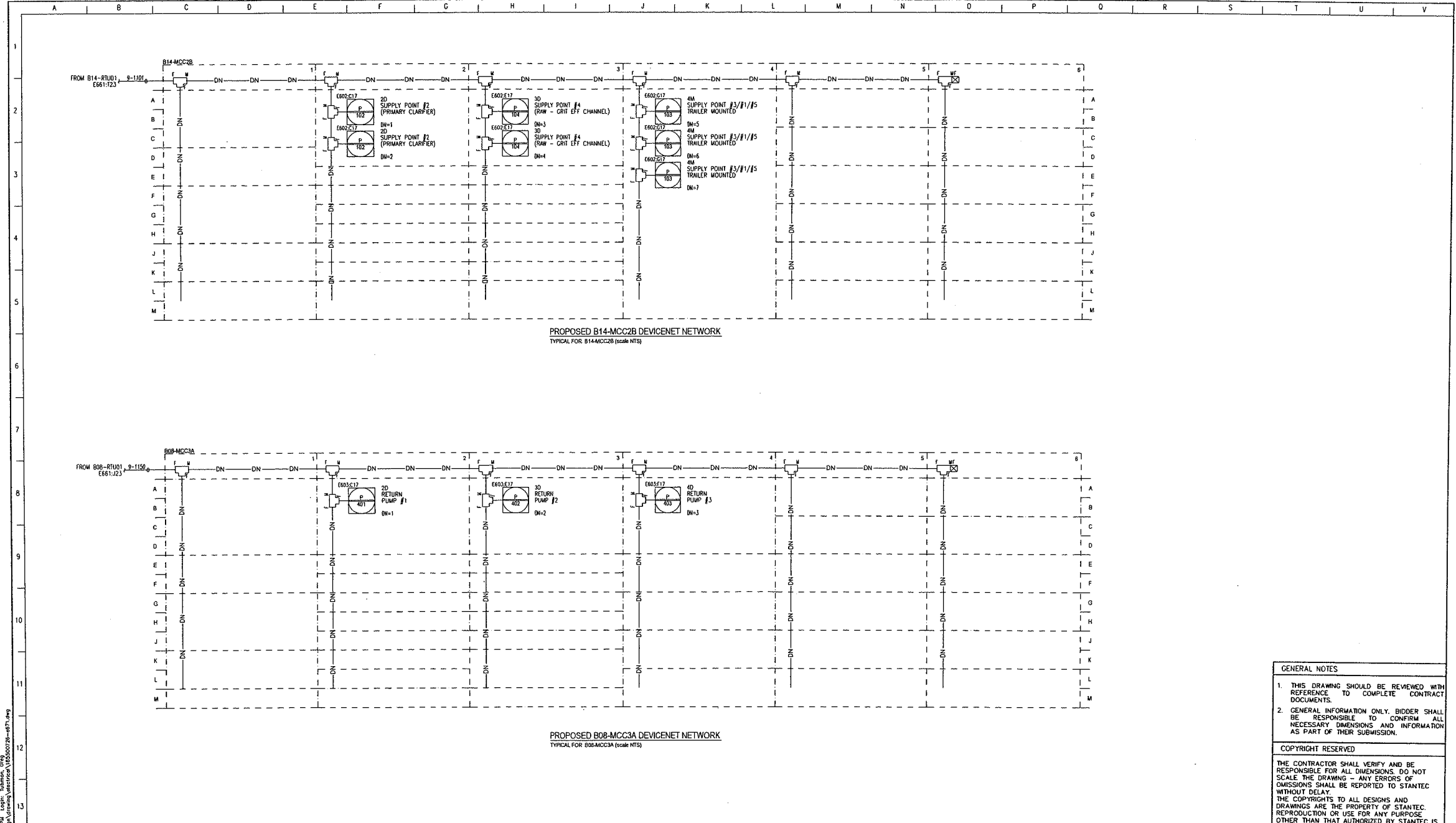
**SOWC-LWF**  
 GREENWAY POLLUTION CONTROL CENTRE

**CONTROL SINGLE-LINE DIAGRAM**  
 B14-RTU01-CPL AND B08-RTU01-CPL

PROJECT No. **ES1721**

SHEET No. **GPCC-E661**

PLANNING FILE No.



PROPOSED B14-MCC2B DEVICENET NETWORK  
TYPICAL FOR B14-MCC2B (scale NTS)

PROPOSED B08-MCC3A DEVICENET NETWORK  
TYPICAL FOR B08-MCC3A (scale NTS)

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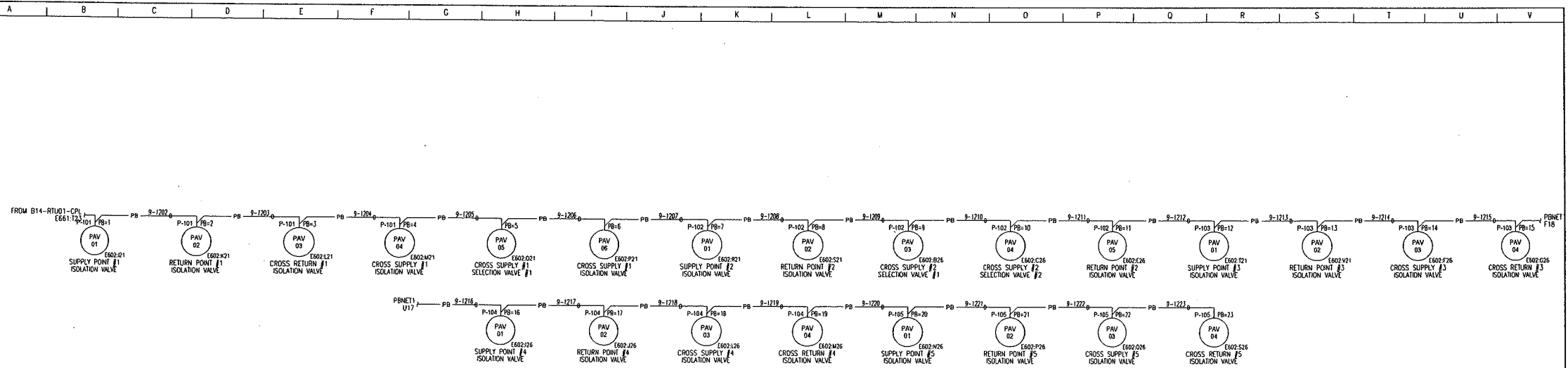
SOWC - LWF  
GREENWAY POLLUTION CONTROL CENTRE

PROJECT No. ES1721

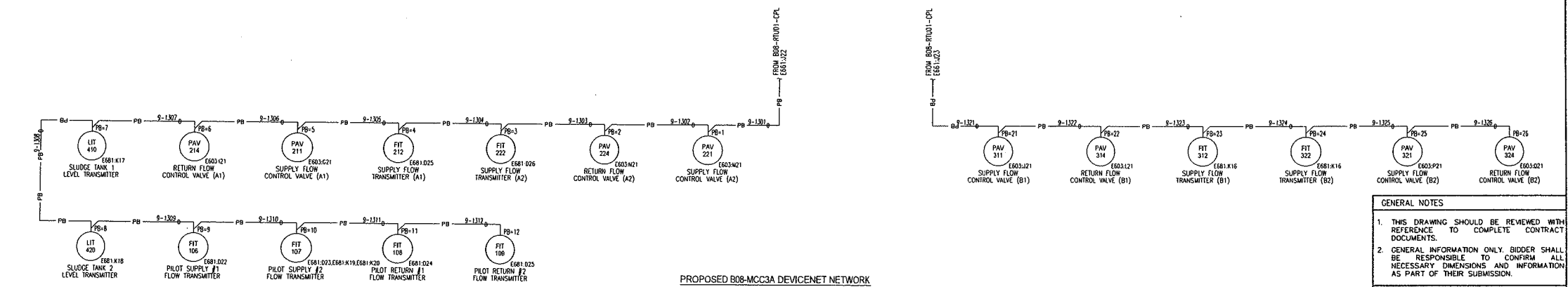
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DEVICENET NETWORK DIAGRAM  
B14-MCC2B & B08-MCC3A

PROJECT FILE No. GPCC-E671



PROPOSED B14-MCC2B DEVICENET NETWORK  
TYPICAL FOR B14-MCC2B (scale NTS)



PROPOSED B08-MCC3A DEVICENET NETWORK  
TYPICAL FOR B08-MCC3A (scale NTS)

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SOWC-LWF  
GREENWAY POLLUTION CONTROL CENTRE

PROFIBUS NETWORK DIAGRAM  
B14-RTU01 AND B08-RTU01

PROJECT NO. ES1721

SHEET NO. GPCC-E672

PLAN FILE NO.





Agenda Item #

Page #

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**Schedule C**

To the Agreement with the University of Western Ontario.

SCHEDULE C

<b>Fed Dev Line No.</b>	<b>London Platform Budget Line Item</b>	<b>ELIGIBLE COSTS</b>
10	General Engineering Requirements	\$ 533,052
11	Excavation, fill, compaction	\$ 15,000
12	OUT OF SCOPE	\$ 0
13	OUT OF SCOPE	\$ 0
14	OUT OF SCOPE	\$ 0
15	OUT OF SCOPE	\$ 0
16	Main Feed Pipes	\$ 877,579
17	Main Feed Pumps	\$ 673,821
18	Process Return Piping	\$ 438,789
19	Misc Process Piping	\$ 53,608
20	Misc Process Valving	\$ 44,673
21	Electrical, I&C, SCADA System	\$ 645,278
22	Misc Metals	\$ 570,823
23	Hazardous Class. Req'ts (NFPA 820)	\$ 483,462
24	Misc Pilot Plant Equipment	\$ 395,109
	<b>NODE SUBTOTAL</b>	<b>\$ 4,731,194</b>

Chair and Members  
Civic Works Committee

January 11, 2013  
(Approve Additional Funding)

**RE: Southern Ontario Water Consortium - London Wastewater Facility  
Procurement of Goods and Services Policy Changes for Construction Contract Award  
Capital Project ES1721 - Economic Development**

**FINANCE DEPARTMENT REPORT ON THE SOURCES OF FINANCING:**

Finance Department confirms that the cost of this project can be accommodated within the financing available for it in the Capital Works Budget and that, subject to the adoption of the recommendations of the Managing Director, Environmental and Engineering Services and City Engineer and the Deputy City Treasurer, the detailed source of financing for this project is:

<b><u>ESTIMATED EXPENDITURES</u></b>	<b><u>Approved Budget</u></b>	<b><u>Additional Funding (1)</u></b>	<b><u>Revised Budget</u></b>	<b><u>Committed to Date</u></b>	<b><u>Balance for Future Work</u></b>
Engineering	\$534,582		\$534,582	\$534,582	\$0
Construction	3,265,418	4,731,194	7,996,612		7,996,612
<b>NET ESTIMATED EXPENDITURES</b>	<b><u>\$3,800,000</u></b>	<b><u>\$4,731,194</u></b>	<b><u>\$8,531,194</u></b>	<b><u>\$534,582</u></b>	<b><u>\$7,996,612</u></b>
<b><u>SOURCE OF FINANCING:</u></b>					
Debenture Quota	2) \$3,800,000		\$3,800,000	\$534,582	\$3,265,418
Other - FedDev	1)	4,731,194	4,731,194		4,731,194
<b>TOTAL FINANCING</b>	<b><u>\$3,800,000</u></b>	<b><u>\$4,731,194</u></b>	<b><u>\$8,531,194</u></b>	<b><u>\$534,582</u></b>	<b><u>\$7,996,612</u></b>

**NOTES:**

- 1) Additional funding of \$4.7 million has been allocated to the Southern Ontario Water Consortium (SOWC) – London Wastewater Facility (LWF) by FedDev as part of the contribution agreement signed by FedDev and the University of Waterloo (FedDev's partner of record for the SOWC). Funding is conditional on FedDev's approval of detailed engineering and/or architectural plans for the facility in London. City funding will not be expended on the SOWC-LWF until the FedDev funding is secured. Municipal Council previously approved \$506,073 on May 1, 2012 for engineering on this project from the City funds allocated to it.

**NOTE TO CITY CLERK:**

- 2) Administration hereby certifies that the estimated amounts payable in respect of this project does not exceed the annual financial debt and obligation limit for the Municipality of Municipal Affairs in accordance with the provisions of Ontario Regulation 403/02 made under the Municipal Act, and accordingly the City Clerk is hereby requested to prepare and introduce the necessary

An authorizing by-law should be drafted to secure debenture financing for Project ES1721 - Economic Development for the net amount to be debentured of \$3,800,000.

JG



Alan Dunbar  
Manager of Financial Planning & Policy

Agenda Item #

Page #

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**APPENDIX C**

Letter of Support from LEDC



John Lucas, P. Eng  
Director - Water / Wastewater  
City of London  
300 Dufferin Avenue  
London, Ontario Canada  
N6A 4L9

January 9<sup>th</sup>, 2013

**Re: The International Water Centre of Excellence ( IWCE)**

Water is quickly becoming one of the world's key commodities and the next 2 decades will bring a focus to the provision of water worldwide that was never imagined even 10 years ago.

The International Water Centre of Excellence ( IWCE) led by the water technology industry, the City of London, LEDC and Western University will make London, Ontario the leading site for industrial water treatment technology commercialization, validation and testing in Canada. As one of the key nodes in the Southern Ontario Water Congress (SOWC) supported by FedDev Ontario, this world unique facility will provide the critical link between the private and public sectors as part of a strategic initiative with industry, academic institutions, municipalities and the Ontario and Canadian governments to strengthen Canada's position as a global leader in water and wastewater treatment technologies.

The new IWCE at the Greenway Pollution Control Plant in London, Ontario will address comprehensive water treatment issues from research to full scale validation, a combination which is unique in the world. While this is already a strength in Ontario, the absence of full-scale testing facilities worldwide is often limiting to developers of new environmental technologies. Hence, these facilities would provide accelerated growth potential for Ontario companies.

Building on existing critical mass and strengths in London and at other Ontario companies and institutions, research programs and technologies investigated will address water and wastewater treatment and optimization, water recycling, bio-solids reduction, energy recovery from biogases, nutrient removal and compound recovery, to name a few. These technologies will usher in a new era of treatment technologies, focused not only on pathogen destruction but also on the effective treatment of toxic compounds in water, such as pesticides, pharmaceuticals and endocrine disruptors, which pose new risks to the global ecology and the sustainability of water supplies worldwide.

The Centre will include:

- On-site access to all aspects of a high-capacity sewage treatment plant
- Training and education facilities for scientists, engineers, and plant operators
- Large-scale pilot plant demonstration capacity
- Full scale technology demonstration and testing capacity
- Space available for rent/lease to the private sector in technology development/testing
- Access for international regulators and testing agencies for full-scale testing of new technologies

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The provision of water treatment technologies to the world will be a growth industry that Ontario is particularly well-positioned for. Two of the leading Ontario companies are located in London including Trojan UV, and Purifics ES who both see this centre as an important part of the research programs in coming years, securing local employment and economic development.

This project will consist of the design and construction of a comprehensive technology development and research facility, including advanced laboratory facilities and testing facilities which will provide unprecedented access for scientists and engineers from Western, the SOWC, the City of London, and industry to pursue industrial scale-up testing of emerging treatment and distribution technologies.

The facility will provide open access to other industrial, governmental, and non-governmental organizations, to attract the scientists, engineers, technicians, and technologists from across Canada and around the world who will form the next generation of wastewater treatment experts and companies.

When the IWCE was first envisioned, one of the key areas that Western, LEDC and the City worked towards was obtaining financial support from other levels of government. This had been a request of Council and something that after significant effort by the IWCE Board was achieved with the multi-million dollar FedDev Ontario supported funding. FedDev Ontario Minister Gary Goodyear was personally involved in the overall planning for the SOWC, and he was an ardent supporter of the London node. We would also like to thank MPs Ed Holder and Joe Preston who helped us in many ways in getting this unique project funding approved.

The London Economic Development Corporation is pleased to see the plan move ahead and we are very excited that we will have both a unique and world leading facility when complete that will allow London to further develop its world leading position in water.

This ability to provide research, product development and expertise will provide many economic development opportunities for the city, and provide us with an outstanding platform to work with the water industry worldwide.

Yours Truly,

Peter White  
President and CEO

Come for Business. **Stay for Life.**

Agenda Item #

Page #

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**APPENDIX D**

Letter of Support from IWCE



January 9, 2013

Mr John Lucas  
Director - Water and Wastewater  
The Corporation of the City of London  
300 Dufferin Street  
London ON

Dear Mr Lucas

On behalf of the Board of Directors of the International Water Centre of Excellence (IWCE), I am writing to express our support for your plan to enable and accelerate the construction of the Southern Ontario Water Consortium's London Wastewater Facility (SOWC-LWF).

In order to meet the March 31, 2014 deadlines imposed by FedDev Ontario, you have recommended that Council allow senior staff to administratively award the contract in order to reduce the risk of late claims for FedDev reimbursement, and that staff be given the authority to award the tendered construction project to add an additional six weeks of construction to the timetable and help to meet the strict timelines mandated by the FedDev funding requirements. I understand that City Staff will also explore ways to make the bio-solids building available before the end of May.

The IWCE Board of Directors has agreed unanimously that we support your proposed plan. Given the importance and visibility of this project, your plan is eminently sensible and should serve to minimize the overall risk to the project.

Sincerely,



Dan Sinai  
President, The International Water Centre of Excellence

