



THE CITY OF WINNIPEG

BID OPPORTUNITY

BID OPPORTUNITY NO. 963-2010

**HVAC REPLACEMENT
WEST END WATER POLLUTION CONTROL CENTRE**

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PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

HVAC REPLACEMENT

B1.1 WEST END WATER POLLUTION CONTROL CENTRE

B2. SUBMISSION DEADLINE

B2.1 The Submission Deadline is 12:00 noon Winnipeg time, February 3, 2011.

B2.2 Bids determined by the Manager of Materials to have been received later than the Submission Deadline will not be accepted and will be returned upon request.

B2.3 The Contract Administrator or the Manager of Materials may extend the Submission Deadline by issuing an addendum at any time prior to the time and date specified in B2.1.

B3. BIDDERS' CONFERENCE

B3.1 Further to C3.1, the Contract Administrator will hold two (2) Bidders' conferences at the West End Water Pollution Control Centre from 9:00 AM to 12:00 noon on January 13, 2011 and January 20, 2011. Attendance at one of the two Bidders' Conference is encouraged but is not mandatory. The intent of having 2-Bidder's conferences is that it provides Bidders' intending to submit a Bid the opportunity to visit the site together with their sub-contractors.

B3.2 The Bidder is advised that, at the Bidders' Conference, the Bidder's representatives are expected to print their company name and their own names and affix their signatures to the City's site visit sign in sheet as evidence of their attendance.

B3.3 The Bidder shall not be entitled to rely on any information or interpretation received at the Bidders' Conference unless that information or interpretation is provided by the Contract Administrator in writing.

B3.4 If the Bidders require additional information or explanation relating to the Work, the Bidders shall apply for the same to the Contract Administrator in accordance with B4.

B3.5 The Bidders shall be solely responsible for any errors, omissions or misunderstandings resulting from the Bidders' failure to make a thorough examination of the site and obtain such information.

B4. ENQUIRIES

B4.1 All enquiries shall be directed to the Contract Administrator identified in D3.1.

B4.2 If the Bidder finds errors, discrepancies or omissions in the Bid Opportunity, or is unsure of the meaning or intent of any provision therein, the Bidder shall notify the Contract Administrator of the error, discrepancy or omission, or request a clarification as to the meaning or intent of the provision at least five (5) Business Days prior to the Submission Deadline.

B4.3 Responses to enquiries which, in the sole judgment of the Contract Administrator, require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator to all Bidders by issuing an addendum.

B4.4 Responses to enquiries which, in the sole judgment of the Contract Administrator, do not require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator only to the Bidder who made the enquiry.

B4.5 The Bidder shall not be entitled to rely on any response or interpretation received pursuant to B4 unless that response or interpretation is provided by the Contract Administrator in writing.

B5. ADDENDA

- B5.1 The Contract Administrator may, at any time prior to the Submission Deadline, issue addenda correcting errors, discrepancies or omissions in the Bid Opportunity, or clarifying the meaning or intent of any provision therein.
- B5.2 The Contract Administrator will issue each addendum at least two (2) Business Days prior to the Submission Deadline, or provide at least two (2) Business Days by extending the Submission Deadline.
- B5.2.1 Addenda will be available on the Bid Opportunities page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/bidopp.asp>
- B5.2.2 The Bidder is responsible for ensuring that he has received all addenda and is advised to check the Materials Management Division website for addenda regularly and shortly before the Submission Deadline, as may be amended by addendum.
- B5.3 The Bidder shall acknowledge receipt of each addendum in Paragraph 10 of Form A: Bid. Failure to acknowledge receipt of an addendum may render a Bid non-responsive.

B6. SUBSTITUTES

- B6.1 The Work is based on the Plant, Materials and methods specified in the Bid Opportunity.
- B6.2 Substitutions shall not be allowed unless application has been made to and prior approval has been granted by the Contract Administrator in writing.
- B6.3 Requests for approval of a substitute will not be considered unless received in writing by the Contract Administrator at least five (5) Business Days prior to the Submission Deadline.
- B6.4 The Bidder shall ensure that any and all requests for approval of a substitute:
- (a) provide sufficient information and details to enable the Contract Administrator to determine the acceptability of the Plant, Material or method as either an approved equal or alternative;
 - (b) identify any and all changes required in the applicable Work, and all changes to any other Work, which would become necessary to accommodate the substitute;
 - (c) identify any anticipated cost or time savings that may be associated with the substitute;
 - (d) certify that, in the case of a request for approval as an approved equal, the substitute will fully perform the functions called for by the general design, be of equal or superior substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance;
 - (e) certify that, in the case of a request for approval as an approved alternative, the substitute will adequately perform the functions called for by the general design, be similar in substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance.
- B6.5 The Contract Administrator, after assessing the request for approval of a substitute, may in his sole discretion grant approval for the use of a substitute as an “approved equal” or as an “approved alternative”, or may refuse to grant approval of the substitute.
- B6.6 The Contract Administrator will provide a response in writing, at least two (2) Business Days prior to the Submission Deadline, only to the Bidder who requested approval of the substitute.

- B6.6.1 The Bidder requesting and obtaining the approval of a substitute shall be entirely responsible for disseminating information regarding the approval to any person or persons he wishes to inform.
- B6.7 If the Contract Administrator approves a substitute as an “approved equal”, any Bidder may use the approved equal in place of the specified item.
- B6.8 If the Contract Administrator approves a substitute as an “approved alternative”, any Bidder bidding that approved alternative may base his Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with B15.
- B6.9 No later claim by the Contractor for an addition to the Total Bid Price because of any other changes in the Work necessitated by the use of an approved equal or an approved alternative will be considered.
- B6.10 Notwithstanding B6.2 to B6.9, and in accordance with B7.6 deviations inconsistent with the Bid Opportunity document shall be evaluated in accordance with B15.1(a).

B7. BID COMPONENTS

- B7.1 The Bid shall consist of the following components:
- (a) Form A: Bid;
 - (b) Form B: Prices;
 - (c) Bid Security
 - (i) Form G1: Bid Bond and Agreement to Bond, or
Form G2: Irrevocable Standby Letter of Credit and Undertaking, or
a certified cheque or draft;
- B7.2 Further to B7.1, the Bidder should include the written correspondence from the Contract Administrator approving a substitute in accordance with B6.
- B7.3 All components of the Bid shall be fully completed or provided, and submitted by the Bidder no later than the Submission Deadline, with all required entries made clearly and completely, to constitute a responsive Bid.
- B7.4 The Bid shall be submitted enclosed and sealed in an envelope clearly marked with the Bid Opportunity number and the Bidder's name and address.
- B7.4.1 Samples or other components of the Bid which cannot reasonably be enclosed in the envelope may be packaged separately, but shall be clearly marked with the Bid Opportunity number, the Bidder's name and address, and an indication that the contents are part of the Bidder's Bid.
- B7.5 Bidders are advised not to include any information/literature except as requested in accordance with B7.1.
- B7.6 Bidders are advised that inclusion of terms and conditions inconsistent with the Bid Opportunity document, including the General Conditions, will be evaluated in accordance with B15.1(a).
- B7.7 Bids submitted by facsimile transmission (fax) or internet electronic mail (e-mail) will not be accepted.
- B7.8 Bids shall be submitted to:
- The City of Winnipeg
Corporate Finance Department
Materials Management Division
185 King Street, Main Floor
Winnipeg MB R3B 1J1

B8. BID

- B8.1 The Bidder shall complete Form A: Bid, making all required entries.
- B8.2 Paragraph 2 of Form A: Bid shall be completed in accordance with the following requirements:
- (a) if the Bidder is a sole proprietor carrying on business in his own name, his name shall be inserted;
 - (b) if the Bidder is a partnership, the full name of the partnership shall be inserted;
 - (c) if the Bidder is a corporation, the full name of the corporation shall be inserted;
 - (d) if the Bidder is carrying on business under a name other than his own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.
- B8.2.1 If a Bid is submitted jointly by two or more persons, each and all such persons shall identify themselves in accordance with B8.2.
- B8.3 In Paragraph 3 of Form A: Bid, the Bidder shall identify a contact person who is authorized to represent the Bidder for purposes of the Bid.
- B8.4 Paragraph 12 of Form A: Bid shall be signed in accordance with the following requirements:
- (i) if the Bidder is a sole proprietor carrying on business in his own name, it shall be signed by the Bidder;
 - (ii) if the Bidder is a partnership, it shall be signed by the partner or partners who have authority to sign for the partnership;
 - (iii) if the Bidder is a corporation, it shall be signed by its duly authorized officer or officers and the corporate seal, if the corporation has one, should be affixed;
 - (iv) if the Bidder is carrying on business under a name other than his own, it shall be signed by the registered owner of the business name, or by the registered owner's authorized officials if the owner is a partnership or a corporation.
- B8.4.1 The name and official capacity of all individuals signing Form A: Bid should be printed below such signatures.
- B8.5 If a Bid is submitted jointly by two or more persons, the word "Bidder" shall mean each and all such persons, and the undertakings, covenants and obligations of such joint Bidders in the Bid and the Contract, when awarded, shall be both joint and several.

B9. PRICES

- B9.1 The Bidder shall state a price in Canadian funds for each item of the Work identified on Form B: Prices.
- B9.1.1 Notwithstanding C12.2.3(c), prices on Form B: Prices shall not include the Manitoba Retail Sales Tax (MRST, also known as PST), which shall be extra where applicable.
- B9.2 The quantities for which payment will be made to the Contractor are to be determined by the Work actually performed and completed by the Contractor, to be measured as specified in the applicable Specifications.
- B9.3 Payments to Non-Resident Contractors are subject to Non-Resident Withholding Tax pursuant to the Income Tax Act (Canada).

B10. QUALIFICATION

- B10.1 The Bidder shall:
- (i) undertake to be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba; and

- (ii) be financially capable of carrying out the terms of the Contract; and
- (iii) have all the necessary experience, capital, organization, and equipment to perform the Work in strict accordance with the terms and provisions of the Contract.

B10.2 The Bidder and any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:

- (a) be responsible and not be suspended, debarred or in default of any obligations to the City. A list of suspended or debarred individuals and companies is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/debar.stm>

B10.3 The Bidder and/or any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:

- (i) have successfully carried out work similar in nature, scope and value to the Work; and
- (ii) be fully capable of performing the Work required to be in strict accordance with the terms and provisions of the Contract; and
- (iii) have a written workplace safety and health program if required pursuant to The Workplace Safety and Health Act (Manitoba);

B10.4 Further to B10.3(iii), the Bidder shall, within five (5) Business Days of a request by the Contract Administrator, provide proof satisfactory to the Contract Administrator that the Bidder/Subcontractor has a workplace safety and health program meeting the requirements of The Workplace Safety and Health Act (Manitoba), by providing:

- (i) a valid COR certification number under the Certificate of Recognition (COR) Program administered by the Manitoba Construction Safety Association or by the Manitoba Heavy Construction Association's Safety, Health and Environment Program; or
- (ii) a report or letter to that effect from an independent reviewer acceptable to the City. (A list of acceptable reviewers and the review template are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt>)

B10.5 The Bidder shall submit, within three (3) Business Days of a request by the Contract Administrator, proof satisfactory to the Contract Administrator of the qualifications of the Bidder and of any proposed Subcontractor.

B10.6 The Bidder shall provide, on the request of the Contract Administrator, full access to any of the Bidder's equipment and facilities to confirm, to the Contract Administrator's satisfaction, that the Bidder's equipment and facilities are adequate to perform the Work.

B11. BID SECURITY

B11.1 The Bidder shall provide bid security in the form of:

- (i) a bid bond, in the amount of at least ten percent (10%) of the Total Bid Price, and agreement to bond of a company registered to conduct the business of a surety in Manitoba, in the form included in the Bid Submission (Form G1: Bid Bond and Agreement to Bond); or
- (ii) an irrevocable standby letter of credit, in the amount of at least ten percent (10%) of the Total Bid Price, and undertaking issued by a bank or other financial institution registered to conduct business in Manitoba and drawn on a branch located in Winnipeg, in the form included in the Bid Submission (Form G2: Irrevocable Standby Letter of Credit and Undertaking); or
- (iii) a certified cheque or draft payable to "The City of Winnipeg", in the amount of at least fifty percent (50%) of the Total Bid Price, drawn on a bank or other financial institution registered to conduct business in Manitoba.

- B11.1.1 If the Bidder submits alternative bids, the bid security shall be in the amount of the specified percentage of the highest Total Bid Price submitted.
- B11.1.2 All signatures on bid securities shall be original.
- B11.1.3 The Bidder shall sign the Bid Bond.
- B11.1.4 The Surety shall sign and affix its corporate seal on the Bid Bond and the Agreement to Bond.
- B11.2 The bid security of the successful Bidder and the next two lowest evaluated responsive and responsible Bidders will be released by the City when a Contract for the Work has been duly executed by the successful Bidder and the performance security furnished as provided herein. The bid securities of all other Bidders will be released when a Contract is awarded.
- B11.2.1 Where the bid security provided by the successful Bidder is in the form of a certified cheque or draft pursuant to B11.1(iii), it will be deposited and retained by the City as the performance security and no further submission is required.
- B11.2.2 The City will not pay any interest on certified cheques or drafts furnished as bid security or subsequently retained as performance security.
- B11.3 The bid securities of all Bidders will be released by the City as soon as practicable following notification by the Contract Administrator to the Bidders that no award of Contract will be made pursuant to the Bid Opportunity.

B12. OPENING OF BIDS AND RELEASE OF INFORMATION

- B12.1 Bids will be opened publicly, after the Submission Deadline has elapsed, in the office of the Corporate Finance Department, Materials Management Division, or in such other office as may be designated by the Manager of Materials.
- B12.1.1 Bidders or their representatives may attend.
- B12.2 Following the Submission Deadline, the names of the Bidders and their Total Bid Prices (unevaluated, and pending review and verification of conformance with requirements) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/default.stm>
- B12.3 After award of Contract, the name(s) of the successful Bidder(s) and the Contract Amount(s) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/default.stm>
- B12.4 The Bidder is advised that any information contained in any Bid may be released if required by City policy or procedures, by The Freedom of Information and Protection of Privacy Act (Manitoba), by other authorities having jurisdiction, or by law.

B13. IRREVOCABLE BID

- B13.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 11 of Form A: Bid.
- B13.2 The acceptance by the City of any Bid shall not release the Bids of the next two lowest evaluated responsive Bidders and these Bidders shall be bound by their Bids on such Work until a Contract for the Work has been duly executed and the performance security furnished as herein provided, but any Bid shall be deemed to have lapsed unless accepted within the time period specified in Paragraph 11 of Form A: Bid.

B14. WITHDRAWAL OF BIDS

- B14.1 A Bidder may withdraw his Bid without penalty by giving written notice to the Manager of Materials at any time prior to the Submission Deadline.
- B14.1.1 Notwithstanding C23.3, the time and date of receipt of any notice withdrawing a Bid shall be the time and date of receipt as determined by the Manager of Materials.
- B14.1.2 The City will assume that any one of the contact persons named in Paragraph 3 of Form A: Bid or the Bidder's authorized representatives named in Paragraph 12 of Form A: Bid, and only such person, has authority to give notice of withdrawal.
- B14.1.3 If a Bidder gives notice of withdrawal prior to the Submission Deadline, the Manager of Materials will:
- (a) retain the Bid until after the Submission Deadline has elapsed;
 - (b) open the Bid to identify the contact person named in Paragraph 3 of Form A: Bid and the Bidder's authorized representatives named in Paragraph 12 of Form A: Bid; and
 - (c) if the notice has been given by any one of the persons specified in B14.1.3(b), declare the Bid withdrawn.
- B14.2 A Bidder who withdraws his Bid after the Submission Deadline but before his Bid has been released or has lapsed as provided for in B13.2 shall be liable for such damages as are imposed upon the Bidder by law and subject to such sanctions as the Chief Administrative Officer considers appropriate in the circumstances. The City, in such event, shall be entitled to all rights and remedies available to it at law, including the right to retain the Bidder's bid security.

B15. EVALUATION OF BIDS

- B15.1 Award of the Contract shall be based on the following bid evaluation criteria:
- (a) compliance by the Bidder with the requirements of the Bid Opportunity, or acceptable deviation there from (pass/fail);
 - (b) qualifications of the Bidder and the Subcontractors, if any, pursuant to B10 (pass/fail);
 - (c) Total Bid Price;
 - (d) economic analysis of any approved alternative pursuant to B6.
- B15.2 Further to B15.1(a), the Award Authority may reject a Bid as being non-responsive if the Bid is incomplete, obscure or conditional, or contains additions, deletions, alterations or other irregularities. The Award Authority may reject all or any part of any Bid, or waive technical requirements or minor informalities or irregularities, if the interests of the City so require.
- B15.3 Further to B15.1(b), the Award Authority shall reject any Bid submitted by a Bidder who does not demonstrate, in his Bid or in other information required to be submitted, that he is responsible and qualified.
- B15.4 Further to B15.1(c), the Total Bid Price shall be the sum of the quantities multiplied by the unit prices for each item shown on Form B: Prices.
- B15.4.1 If there is any discrepancy between the Total Bid Price written in figures, the Total Bid Price written in words, the price written in words shall take precedence.
- B15.4.2 Further to B15.1(a), in the event that a unit price is not provided on Form B: Prices, the City will determine the unit price by dividing the Amount (extended price) by the approximate quantity, for the purposes of evaluation and payment.

B16. AWARD OF CONTRACT

- B16.1 The City will give notice of the award of the Contract or will give notice that no award will be made.
- B16.2 The City will have no obligation to award a Contract to a Bidder, even though one or all of the Bidders are determined to be responsible and qualified, and the Bids are determined to be responsive.
- B16.2.1 Without limiting the generality of B16.2, the City will have no obligation to award a Contract where:
- (a) the prices exceed the available City funds for the Work;
 - (b) the prices are materially in excess of the prices received for similar work in the past;
 - (c) the prices are materially in excess of the City's cost to perform the Work, or a significant portion thereof, with its own forces;
 - (d) only one Bid is received; or
 - (e) in the judgment of the Award Authority, the interests of the City would best be served by not awarding a Contract.
- B16.3 Where an award of Contract is made by the City, the award shall be made to the responsible and qualified Bidder submitting the lowest evaluated responsive Bid, in accordance with B15.
- B16.3.1 Following the award of contract, a Bidder will be provided with information related to the evaluation of his Bid upon written request to the Contract Administrator.

PART C - GENERAL CONDITIONS

C0. GENERAL CONDITIONS

- C0.1 The *General Conditions for Construction* (Revision 2006 12 15) are applicable to the Work of the Contract.
- C0.1.1 The *General Conditions for Construction* are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at http://www.winnipeg.ca/matmgt/gen_cond.stm
- C0.2 A reference in the Bid Opportunity to a section, clause or sub-clause with the prefix “**C**” designates a section, clause or sub-clause in the *General Conditions for Construction*.

PART D - SUPPLEMENTAL CONDITIONS

GENERAL

D1. GENERAL CONDITIONS

D1.1 In addition to the *General Conditions for Construction*, these Supplemental Conditions are applicable to the Work of the Contract.

D2. SCOPE OF WORK

D2.1 The Work to be done under the Contract shall consist of the labour, equipment, and materials required to complete the HVAC Replacement at the West End Water Pollution Control Centre in Winnipeg, Manitoba, all as specified in the Contract Documents.

D2.2 The major components of the Work are as follows:

(a) Area P - Primary Clarifiers HVAC Replacement

- i. Replace the two existing make-up-air units (MUA) with new units. MUA units to be replaced on a one at a time per Clarifier basis to ensure on-going ventilation through adjacent active Clarifier through the construction phase.
- ii. Replace the two existing exhaust fans with new units.
- iii. Modify/replace existing ductwork to suit new equipment.
- iv. Electrical and controls.
- v. System testing and commissioning.

(b) Area S - Secondary Clarifiers HVAC Replacement

- i. Replace the two existing MUAs with new units. MUA units to be replaced on a one at a time per Clarifier basis to ensure on-going ventilation through adjacent active Clarifiers through the construction phase.
- ii. Construction of a penthouse mechanical room to house the new MUAs.
- iii. Replace the two existing exhaust fans with new units.
- iv. Modify/replace existing ductwork to suit new equipment.
- v. Electrical and controls.
- vi. System testing and commissioning.

(c) Area H – Headworks – Upper Process Floor, Grit Screenings Mezzanine & Sludge Truck Bay HVAC Replacement

- i. Replace the two existing MUAs with new units complete with new penthouse style air intake plenums; MUA units to be replaced on a one at a time basis to ensure on-going ventilation through the construction phase.
- ii. Replace the existing exhaust fans with new units.
- iii. Re-orient one existing exhaust fan.
- iv. Modify/replace existing ductwork to suit new equipment and air flow patterns.
- v. Replace existing sludge truck vent fan and snorkel connection.
- vi. Electrical and controls.
- vii. System testing and commissioning.

(d) Area H - Headworks – Grit Truck Bay HVAC Replacement

- i. Replace one existing MUA with a new unit.
- ii. Replace one existing exhaust fan with a new unit.
- iii. Modify/replace existing ductwork to suit new equipment.
- iv. Electrical and controls.
- v. System testing and commissioning

(e) Area H - Headworks – Lower Tunnel Area HVAC Replacement

- i. Replace the one existing AHU with a new MUA.
 - ii. Replace the one existing exhaust fans with a new unit.
 - iii. Modify/replace existing ductwork to suit new equipment.
 - iv. Electrical and controls.
 - v. System testing and commissioning.
- (f) Area H - Headworks – Upper Mechanical Room HVAC Replacement
 - i. Replace existing hot water space heater with a new hot water unit heater.
 - ii. Electrical and controls.
 - iii. System testing and commissioning.
- (g) Area U – Utility Building - Tunnels HVAC Replacement
 - i. Replace one existing MUA and replace with a new unit.
 - ii. Replace seven existing roof mounted exhaust fans with six new units.
 - iii. Modify/replace existing ductwork to suit new equipment.
 - iv. Electrical and controls.
 - v. System testing and commissioning.
- (h) Area U – Utility Building – Maintenance Shop and Chemical Storage Room HVAC Replacement
 - i. Replace existing MUA and AHU with two new units.
 - ii. Replace the two existing exhaust fans with new units.
 - iii. Modify/replace existing ductwork to suit new equipment.
 - iv. Electrical and controls.
 - v. System testing and commissioning.
- (i) Area U – Utility Building – Blower Room
 - i. Replace the one existing AHU with one new AHU and exhaust fan.
 - ii. Modify/replace existing ductwork to suit new equipment.
 - iii. Electrical and controls.
 - iv. System testing and commissioning.
- (j) Area S – Odour Dispersion Stack Exhaust System (ODS) and Aeration Basin Exhaust System
 - i. Replace the two existing axial flow, ODS exhaust booster fans with new units.
 - ii. Provision of temporary ventilation during ODS construction.
 - iii. Retire the two existing Aeration Basin Exhaust fans and replace with new control dampers.
 - iv. Modify/replace existing ductwork to suit new equipment.
 - v. Electrical and controls.
 - vi. System testing and commissioning.
- (k) Area U – Utility Building – Administration
 - i. Replace the seven existing FAFs with six new units.
 - ii. Modify/replace existing ductwork to suit new equipment.
 - iii. Electrical and controls.
 - iv. System testing and commissioning.
- (l) General
 - i. Cutting and patching as required for the implementation of the above.
 - ii. Additional civil works as detailed to implement the above.
 - iii. All other auxiliary equipment, structures and mechanical and electrical components, heating and hoarding, Contractor construction support services,

Contractor construction services and systems necessary for a complete functioning HVAC system(s).

- iv. Provision of after hour security forces during times when construction activities dictate that the facility be left in an unsecured state.
- v. Implementation of a phased milestone schedule ensuring the on-going operation of the facility.
- vi. Project close out documentation including operating & maintenance manuals, training of City personnel, final inspection certificates from authority's having jurisdiction where applicable, as-built mark-ups, extended warranty certificates where applicable.

D2.3 Definitions

D2.4 When used in this Bid Opportunity:

- (a) "MUA" means Make-up Air Unit;
- (b) "AHU" means Air Handling Unit;
- (c) "FAF" means Forced Air Furnace;
- (d) "ACU" means Air Cleaning Unit
- (e) "HVAC" means heating, ventilation and air conditioning

D2.5 Notwithstanding C1.1, when used in this Bid Opportunity:

D3. CONTRACT ADMINISTRATOR

D3.1 The Contract Administrator is Alliance Engineering Services Inc, represented by:

Art Gossen, P.Eng
Principal – Senior Engineer
1035 Logan Ave
Winnipeg, MB R3E 1P5

Telephone No. (204) 774-7859
Facsimile No. (204) 772-5211

D3.2 At the pre-construction meeting, Art Gossen will identify additional personnel representing the Contract Administrator and their respective roles and responsibilities for the Work.

D4. CONTRACTOR'S SUPERVISOR

D4.1 At the pre-construction meeting, the Contractor shall identify his designated supervisor and any additional personnel representing the Contractor and their respective roles and responsibilities for the Work.

D5. NOTICES

D5.1 Except as provided for in C23.2.2, all notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the Contractor shall be sent to the address or facsimile number identified by the Contractor in Paragraph 2 of Form A: Bid.

D5.2 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the City, except as expressly otherwise required in D5.3, D5.4 or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator at the address or facsimile number identified in D3.1.

D5.3 Notwithstanding C21., all notices of appeal to the Chief Administrative Officer shall be sent to the attention of the Chief Financial Officer at the following facsimile number:

The City of Winnipeg
Chief Financial Officer

Facsimile No.: (204) 949-1174

- D5.4 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications required to be submitted or returned to the City Solicitor shall be sent to the following address or facsimile number:

The City of Winnipeg
Legal Services Department
Attn: City Solicitor
185 King Street, 3rd Floor
Winnipeg MB R3B 1J1

Facsimile No.: (204) 947-9155

D6. FURNISHING OF DOCUMENTS

- D6.1 Upon award of the Contract, the Contractor will be provided with five (5) complete sets of the Bid Opportunity. If the Contractor requires additional sets of the Bid Opportunity, they will be supplied to him at cost.

SUBMISSIONS

D7. AUTHORITY TO CARRY ON BUSINESS

- D7.1 The Contractor shall be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Contractor does not carry on business in Manitoba, in the jurisdiction where the Contractor does carry on business, throughout the term of the Contract, and shall provide the Contract Administrator with evidence thereof upon request.

D8. SAFE WORK PLAN

- D8.1 The Contractor shall provide the Contract Administrator with a Safe Work Plan at least five (5) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.
- D8.2 The Safe Work Plan should be prepared and submitted in the format shown in the City's template which is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/Safety/default.stm>

D9. INSURANCE

- D9.1 The Contractor shall provide and maintain the following insurance coverage:
- (a) commercial general liability insurance, in the amount of at least five million dollars (\$5,000,000.00) with at least five million dollars (\$5,000,000) general aggregate covering property damage, bodily injury, personal injury and products and completed operations. The City of Winnipeg to be added as an additional insured and shall include a cross-liability or severability of interest clause, broad form contractual liability, broad form completed operations, unlicensed motor vehicle liability including loading and unloading, and non-owned automobile liability and is to remain in place at all times during the performance of the Work and throughout the warranty period. Any exclusions or limitations other than those common to the most recent IBC commercial general liability form must be disclosed on the certificate of insurance.

- (b) automobile liability insurance for owned automobiles used for or in connection with the Work in the amount of at least five million dollars (\$5,000,000.00) at all times during the performance of the Work and until the date of Total Performance;
- (c) broad form builders risk insurance in the amount of one hundred percent (100%) of the total Contract Price, written in the name of the Contractor and The City of Winnipeg, at all times during the performance of the Work and until the date of Total Performance.

D9.2 Deductibles shall be borne by the Contractor.

D9.3 The Contractor shall provide the City Solicitor with a certificate(s) of insurance, in a form satisfactory to the City Solicitor, at least two (2) Business Days prior to the commencement of any Work but in no event later than the date specified in C4.1 for the return of the executed Contract.

D9.4 The Contractor shall not cancel, materially alter, or cause each policy to lapse without providing at least thirty (30) Calendar Days prior written notice to the Contract Administrator.

D10. PERFORMANCE SECURITY

D10.1 The Contractor shall provide and maintain performance security until the expiration of the warranty period in the form of:

- (a) a performance bond of a company registered to conduct the business of a surety in Manitoba, in the form attached to these Supplemental Conditions (Form H1: Performance Bond), in the amount of fifty percent (50%) of the Contract Price; or
- (b) an irrevocable standby letter of credit issued by a bank or other financial institution registered to conduct business in Manitoba and drawn on a branch located in Winnipeg, in the form attached to these Supplemental Conditions (Form H2: Irrevocable Standby Letter of Credit), in the amount of fifty percent (50%) of the Contract Price; or
- (c) a certified cheque or draft payable to "The City of Winnipeg", drawn on a bank or other financial institution registered to conduct business in Manitoba, in the amount of fifty percent (50%) of the Contract Price.

D10.1.1 Where the performance security is in the form of a certified cheque or draft, it will be deposited by the City. The City will not pay any interest on certified cheques or drafts furnished as performance security.

D10.2 The Contractor shall provide the City Solicitor with the required performance security within seven (7) Calendar Days of notification of the award of the Contract by way of letter of intent and prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.

D11. DETAILED PRICES

D11.1 The Contractor shall provide the Contract Administrator with a detailed price breakdown (Form I: Detailed Prices) at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.

D11.2 The Contractor shall state a price for each item or sub-item of the Work identified on Form I: Detailed Prices. The detailed prices must be consistent with the price(s) provided in the Contractor's Bid.

D12. SUBCONTRACTOR LIST

D12.1 The Contractor shall provide the Contract Administrator with a complete list of the Subcontractors whom the Contractor proposes to engage (Form J: Subcontractor List) at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.

D13. EQUIPMENT LIST

D13.1 The Contractor shall provide the Contract Administrator with a complete list of the equipment which the Contractor proposes to utilize (Form K: Equipment List) at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.

D14. DETAILED WORK SCHEDULE

D14.1 The Contractor shall provide the Contract Administrator with a detailed work schedule at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.

D14.2 The detailed work schedule shall consist of the following:

- (a) a critical path method (C.P.M.) schedule for the Work;
- (b) a Gantt chart for the Work based on the C.P.M. schedule;
 - (i) a daily manpower schedule for the Work; the format for this schedule shall be in Microsoft Project 2007 mpp file format all acceptable to the Contract Administrator.

D14.3 Further to D14.2(a), the C.P.M. schedule shall clearly identify the start and completion dates of all of the following activities/tasks making up the Work as well as showing those activities/tasks on the critical path:

- (i) Area U – Utility Building - Tunnels HVAC Replacement
- (ii) Area U – Utility Building – Maintenance Shop and Chemical Storage Room HVAC Replacement
- (iii) Area U – Utility Building – Administration
- (iv) Area S - Secondary Clarifiers HVAC Replacement
- (v) Area H – Headworks – Upper Process Floor, Grit Screenings Mezzanine & Sludge Truck Bay HVAC Replacement
- (vi) Area H - Headworks – Grit Truck Bay HVAC Replacement
- (vii) Area H - Headworks – Lower Tunnel Area HVAC Replacement
- (viii) Area U – Utility Building – Blower Room
- (ix) Area P - Primary Clarifiers HVAC Replacement
- (x) Area H - Headworks – Upper Mechanical Room HVAC Replacement
- (xi) Area S – Odour Dispersion Stack Exhaust System (ODS) and Aeration Basin Exhaust System

D14.4 Further to D14.2(b), the Gantt chart shall show the time on a weekly basis, required to carry out the Work of each trade, or specification division. The time shall be on the horizontal axis, and the type of trade shall be on the vertical axis. Due to the length of the construction period the Gantt chart from present day to a 3-month look ahead period shall provide the above referenced detail, subsequent time periods can be shown in general terms with the appropriate milestone dates with the proviso that the schedule be continuous updated to show the upcoming 3-month term at the detail requested above.

D14.5 Further to D14.2 (b) (i), the daily manpower schedule shall list the daily number of individuals on the Site for each trade.

D15. SECURITY CLEARANCE

D15.1 Each individual proposed to perform Work under the Contract shall be required to obtain a Criminal Record Search Certificate from the police service having jurisdiction at his place of residence.

D15.2 Prior to the commencement of any Work, and during the term of the Contract if additional or replacement individuals are proposed to perform Work, the Contractor shall supply the Contract

Administrator with a Criminal Record Search Certificate obtained not earlier than one (1) year prior to the Submission Deadline, or a certified true copy thereof, for each individual proposed to perform the Work.

- D15.3 Any individual for whom a Criminal Record Search Certificate is not provided, or for whom a Criminal Record Search Certificate indicates any convictions or pending charges related to property offences or crimes against another person, will not be permitted to perform any Work.
- D15.4 Any Criminal Record Search Certificate obtained thereby will be deemed valid for the duration of the Contract subject to a repeated records search as hereinafter specified.
- D15.5 Notwithstanding the foregoing, at any time during the term of the Contract, the City may, at its sole discretion and acting reasonably, require an updated criminal records search. Any individual who fails to provide a satisfactory Criminal Record Search Certificate as a result of a repeated criminal records search will not be permitted to continue to perform any Work.

SCHEDULE OF WORK

D16. COMMENCEMENT

- D16.1 The Contractor shall not commence any Work until he is in receipt of a letter of intent from the Award Authority authorizing the commencement of the Work.
- D16.2 The Contractor shall not commence any Work on the Site until:
- (a) the Contract Administrator has confirmed receipt and approval of:
 - (i) evidence of authority to carry on business specified in D7;
 - (ii) evidence of the workers compensation coverage specified in C6.15;
 - (iii) the Safe Work Plan specified in D8;
 - (iv) evidence of the insurance specified in D9;
 - (v) the performance security specified in D10;
 - (vi) the detailed prices specified in D11;
 - (vii) the Subcontractor list specified in D12;
 - (viii) the equipment list specified in D13;
 - (ix) the detailed work schedule specified in D14; and
 - (x) the security clearances specified in D15.
 - (b) the Contractor has attended a pre-construction meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a pre-construction meeting.
- D16.3 The Contractor shall not commence the Work on the Site before June 1, 2011.
- D16.4 The City intends to award this Contract by April 4, 2011.
- D16.4.1 If the actual date of award is later than the intended date, the dates specified for Commencement, Critical Stages, Substantial Performance, and Total Performance will be adjusted by the difference between the aforementioned intended and actual dates.

D17. CRITICAL STAGES

- D17.1 The Contractor shall achieve critical stages or project milestone dates of the Work in accordance with the requirements listed below. These requirements have been developed to ensure on-going operation of the WEWPCC and to reduce costs related to providing temporary ventilation and temporary heating during construction. Should the Contractor fall behind the milestones limits shown any costs incurred to complete the works at a later date will be the sole responsibility of the Contractor. The Contract Administrator will not consider any claims for these additional incurred costs.

- (a) Area U – Utility Building - Tunnels HVAC Replacement
 - (i) On-site Construction begins June 17, 2011
 - (ii) HVAC System is operational and available for use August 15, 2011
- (b) Area U – Utility Building – Maintenance Shop and Chemical Storage Room HVAC Replacement
 - (i) Outdoor Summer Construction begins June 17, 2011.
 - (ii) HVAC systems are operational and available for use October 14, 2011
- (c) Area U – Utility Building – Administration
 - (i) Systems shall be replaced on an individual basis through the Contract period spring-summer-fall seasons to avoid the need for temporary heating in the winter
- (d) Area S - Secondary Clarifiers HVAC Replacement
 - (i) On-site Outdoor Summer Construction begins June 17, 2011.
 - ◆ Penthouse room construction
 - (ii) Outdoor Summer Construction ends November 4, 2011.
 - (iii) Shut down clarifier no. 1 - December 5, 2011
 - (iv) Clarifier no. 1 back in service – January 19, 2012
 - (v) HVAC System is operational and available for use to ventilate clarifier no. 1 January 19, 2012
 - (vi) Shut down clarifier no. 2 - January 20, 2012
 - (vii) Clarifier no. 2 back in service – March 2, 2012
 - (viii) Remainder of HVAC System is operational and available for use March 2, 2012
- (e) Area H – Headworks – Upper Process Floor, Grit Screenings Mezzanine & Sludge Truck Bay HVAC Replacement
 - (i) Construction begins June 2, 2011
 - (ii) New exhaust fan H672 and refurbished gravity intake for this fan operational and ready for use July 29, 2011
 - (iii) Duct revisions for Upper Process Floor, Grit Screenings, & Mezzanine Level construction start August 2, 2011
 - (iv) Duct revisions for Upper Process Floor, Grit Screenings, & Mezzanine Level complete September 16, 2011
 - (v) Upper Mechanical Room HVAC Replacement (MUA's) & associated Exhaust Fans; start construction with new penthouse intake construction; August 2, 2011.
 - (vi) HVAC system operational and ready for use October 30, 2011
- (f) Area H - Headworks – Grit Truck Bay HVAC Replacement
 - (i) Construction begins July 12, 2011
 - (ii) HVAC System is operational and available for use September 25, 2011
- (g) Area H - Headworks – Lower Tunnel Area HVAC Replacement
 - (i) Construction begins August 21, 2011
 - (ii) HVAC System is operational and available for use October 4, 2011
- (h) Area U – Utility Building – Blower Room
 - (i) Construction begins September 6, 2011
 - (ii) HVAC System is operational and available for use October 10, 2011
- (i) Area P - Primary Clarifiers HVAC Replacement
 - (i) Construct civil works for Clarifier 1 & 2 start October 1, 2011
 - (ii) Shut down clarifier no. 1 - November 29, 2011
 - (iii) Clarifier no. 1 back in service – January 20, 2012
 - (iv) HVAC System is operational and available for use to ventilate Clarifier no. 1 January 20, 2012
 - (v) Shutdown Clarifier 2; start January 25, 2012

- (vi) Clarifier no. 2 back in service – March 11, 2012
- (vii) HVAC System is operational and available for use February 24, 2012
- (j) Area S – Odour Dispersion Stack Exhaust System (ODS) and Aeration Basin Exhaust System
 - (i) Construct temporary ventilation measures for Primary Clarifiers and put in service start April 21, 2012 complete May 1, 2012,
 - (ii) ODS Construction begins May 2, 2012
 - (iii) ODS System is operational and available for use June 21, 2012.
- (k) Seasonal deficiencies and miscellaneous restoration works complete by July 15, 2012.

D18. SUBSTANTIAL PERFORMANCE

- D18.1 The Contractor shall achieve Substantial Performance by August 15, 2012.
- D18.2 When the Contractor considers the Work to be substantially performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Substantial Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be re-inspected.
- D18.3 The date on which the Work has been certified by the Contract Administrator as being substantially performed to the requirements of the Contract through the issue of a certificate of Substantial Performance is the date on which Substantial Performance has been achieved.

D19. TOTAL PERFORMANCE

- D19.1 The Contractor shall achieve Total Performance by September 15, 2012.
- D19.2 When the Contractor or the Contract Administrator considers the Work to be totally performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Total Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be re-inspected.
- D19.3 The date on which the Work has been certified by the Contract Administrator as being totally performed to the requirements of the Contract through the issue of a certificate of Total Performance is the date on which Total Performance has been achieved.

D20. LIQUIDATED DAMAGES

- D20.1 If the Contractor fails to achieve Substantial Performance in accordance with the Contract by the day fixed herein for Substantial Performance, the Contractor shall pay the City one thousand dollars (\$1000) per Working Day for each and every Working Day following the day fixed herein for Substantial Performance during which such failure continues.
- D20.2 The amount specified for liquidated damages in D20.1 is based on a genuine pre-estimate of the City's damages in the event that the Contractor does not achieve Total Performance by the day fixed herein for same.
- D20.3 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

CONTROL OF WORK

D21. JOB MEETINGS

- D21.1 Regular weekly job meetings will be held at the Site. These meetings shall be attended by a minimum of one representative of the Contract Administrator, one representative of the City and

one representative of the Contractor. Each representative shall be a responsible person capable of expressing the position of the Contract Administrator, the City and the Contractor respectively on any matter discussed at the meeting including the Work schedule and the need to make any revisions to the Work schedule. The progress of the Work will be reviewed at each of these meetings.

D21.2 The Contract Administrator reserves the right to cancel any job meeting or call additional job meetings whenever he deems it necessary.

D22. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)

D22.1 Further to C6.24, the Contractor shall be the Prime Contractor and shall serve as, and have the duties of the Prime Contractor in accordance with The Workplace Safety and Health Act (Manitoba).

D23. RESPONSIBILITY FOR PLANT AND MATERIALS

D23.1 Further to C10, the City shall assume the risk of and responsibility for the following Plant from the time that the City delivers the Plant to the Site until the Plant is removed from the Site:

(a) Not applicable

D23.2 Further to C10, the City shall assume the risk of and responsibility for the following Material from the time that the City delivers the Material to the Site until the Material is incorporated in the Work or is removed from the Site:

(a) Not applicable

MEASUREMENT AND PAYMENT

D24. INVOICES

D24.1 Further to C12, the Contractor shall submit a monthly invoice in accordance with the authorized progress estimate. to:

The City of Winnipeg
Corporate Finance - Accounts Payable
4th Floor, Administration Building, 510 Main Street
Winnipeg MB R3B 1B9

Facsimile No.: (204) 949-0864
Email: CityWpgAP@winnipeg.ca

D24.2 Invoices must clearly indicate, as a minimum:

- (a) the City's purchase order number;
- (b) date of delivery;
- (c) delivery address;
- (d) type and quantity of goods delivered;
- (e) the amount payable with GST and MRST shown as separate amounts; and
- (f) the Contractor's GST registration number.

D24.3 The City will bear no responsibility for delays in approval of invoices which are improperly submitted.

D24.4 Bids Submissions must be submitted to the address in B7.8

D25. PAYMENT

D25.1 Further to C12, the City may at its option pay the Contractor by direct deposit to the Contractor's banking institution.

D26. PAYMENT SCHEDULE

D26.1 Further to C12, payment shall be in accordance with the following payment schedule:

- (a) Payment shall be in accordance with monthly progress estimates.
- (b) Fifty percent (50%) of the cost of MUAs, FAFs, AHUs, and exhaust fans shall be made upon delivery of that equipment to site. Twenty five percent (25%) shall be paid upon the installation and the final twenty five percent (25%) upon total incorporation of same permanently into the Work.

WARRANTY

D27. WARRANTY

D27.1 Warranty is as stated in C13.

D27.2 Notwithstanding C13.2, the warranty period shall begin on the date of Total Performance and shall expire one (1) year thereafter, except where longer warranty periods are specified in the respective Specification sections, unless extended pursuant to C13.2.1 or C13.2.2, in which case it shall expire when provided for thereunder.

FORM H1: PERFORMANCE BOND
(See D10)

KNOW ALL MEN BY THESE PRESENTS THAT

_____ (hereinafter called the "Principal"), and

_____, (hereinafter called the "Surety"), are held and firmly bound unto **THE CITY OF WINNIPEG** (hereinafter called the "Obligee"), in the sum of

_____ dollars (\$_____.)

of lawful money of Canada to be paid to the Obligee, or its successors or assigns, for the payment of which sum the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS the Principal has entered into a written contract with the Obligee for

BID OPPORTUNITY NO. 963-2010

HVAC REPLACEMENT

WEST END WATER POLLUTION CONTROL CENTRE

which is by reference made part hereof and is hereinafter referred to as the "Contract".

NOW THEREFORE the condition of the above obligation is such that if the Principal shall:

- (a) carry out and perform the Contract and every part thereof in the manner and within the times set forth in the Contract and in accordance with the terms and conditions specified in the Contract;
- (b) perform the Work in a good, proper, workmanlike manner;
- (c) make all the payments whether to the Obligee or to others as therein provided;
- (d) in every other respect comply with the conditions and perform the covenants contained in the Contract; and
- (e) indemnify and save harmless the Obligee against and from all loss, costs, damages, claims, and demands of every description as set forth in the Contract, and from all penalties, assessments, claims, actions for loss, damages or compensation whether arising under "The Workers Compensation Act", or any other Act or otherwise arising out of or in any way connected with the performance or non-performance of the Contract or any part thereof during the term of the Contract and the warranty period provided for therein;

THEN THIS OBLIGATION SHALL BE VOID, but otherwise shall remain in full force and effect. The Surety shall not, however, be liable for a greater sum than the sum specified above.

AND IT IS HEREBY DECLARED AND AGREED that the Surety shall be liable as Principal, and that nothing of any kind or matter whatsoever that will not discharge the Principal shall operate as a discharge or release of liability of the Surety, any law or usage relating to the liability of Sureties to the contrary notwithstanding.

IN WITNESS WHEREOF the Principal and Surety have signed and sealed this bond the

_____ day of _____, 20____.

SIGNED AND SEALED
in the presence of:

(Witness as to Principal if no seal)

(Name of Principal)

Per: _____ (Seal)

Per: _____

(Name of Surety)

By: _____ (Seal)
(Attorney-in-Fact)

**FORM H2: IRREVOCABLE STANDBY LETTER OF CREDIT
(PERFORMANCE SECURITY)**
(See D10)

(Date)

The City of Winnipeg
Legal Services Department
185 King Street, 3rd Floor
Winnipeg MB R3B 1J1

RE: PERFORMANCE SECURITY - BID OPPORTUNITY NO. 963-2010
HVAC REPLACEMENT
WEST END WATER POLLUTION CONTROL CENTRE

Pursuant to the request of and for the account of our customer,

(Name of Contractor)

(Address of Contractor)

WE HEREBY ESTABLISH in your favour our irrevocable Standby Letter of Credit for a sum not exceeding in the aggregate

Canadian dollars.

This Standby Letter of Credit may be drawn on by you at any time and from time to time upon written demand for payment made upon us by you. It is understood that we are obligated under this Standby Letter of Credit for the payment of monies only and we hereby agree that we shall honour your demand for payment without inquiring whether you have a right as between yourself and our customer to make such demand and without recognizing any claim of our customer or objection by the customer to payment by us.

The amount of this Standby Letter of Credit may be reduced from time to time only by amounts drawn upon it by you or by formal notice in writing given to us by you if you desire such reduction or are willing that it be made.

Partial drawings are permitted.

We engage with you that all demands for payment made within the terms and currency of this Standby Letter of Credit will be duly honoured if presented to us at:

(Address)

and we confirm and hereby undertake to ensure that all demands for payment will be duly honoured by us.

All demands for payment shall specifically state that they are drawn under this Standby Letter of Credit.

Subject to the condition hereinafter set forth, this Standby Letter of Credit will expire on

_____ .
(Date)

It is a condition of this Standby Letter of Credit that it shall be deemed to be automatically extended from year to year without amendment from the present or any future expiry date, unless at least 30 days prior to the present or any future expiry date, we notify you in writing that we elect not to consider this Standby Letter of Credit to be renewable for any additional period.

This Standby Letter of Credit may not be revoked or amended without your prior written approval.

This credit is subject to the Uniform Customs and Practice for Documentary Credit (1993 Revision), International Chamber of Commerce Publication Number 500.

(Name of bank or financial institution)

Per: _____
(Authorized Signing Officer)

Per: _____
(Authorized Signing Officer)

FORM I: DETAILED PRICES
 (See D11)
HVAC REPLACEMENT

WEST END WATER POLLUTION CONTROL CENTRE

ITEM NO.	DESCRIPTION	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
1.	Mobilize	Lump Sum	1		
2.	General Requirements	Lump Sum	1		
3.	Area P – Primary Clarifiers HVAC Replacement				
3a	- MUA(s) supply	Lump Sum	1		
3b	- Exhaust fan(s) supply	Lump Sum	1		
3c	- Demolition	Lump Sum	1		
3d	- Mechanical supply/install	Lump Sum	1		
3e	- EI&C supply/install	Lump Sum	1		
3f	- Civil/structural	Lump Sum	1		
3g	- Testing and commissioning	Lump Sum	1		
4.	Area S – Secondary Clarifiers HVAC Replacement				
4a	- MUA(s) supply	Lump Sum	1		
4b	- Exhaust fan(s) supply	Lump Sum	1		
4c	- Demolition	Lump Sum	1		
4d	- Mechanical supply/install	Lump Sum	1		
4e	- EI&C supply/install	Lump Sum	1		
4f	- Civil/structural	Lump Sum	1		
4g	- Testing and commissioning	Lump Sum	1		
5.	Area H – Headworks – Upper Process Floor, Grit Screenings Mezzanine & Sludge Truck Bay HVAC Replacement				
5a	- MUA(s) supply	Lump Sum	1		
5b	- Exhaust fan(s) supply	Lump Sum	1		
5c	- Demolition	Lump Sum	1		
5d	- Mechanical supply/install	Lump Sum	1		

FORM I: DETAILED PRICES
 (See D11)
HVAC REPLACEMENT

WEST END WATER POLLUTION CONTROL CENTRE

ITEM NO.	DESCRIPTION	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
5e	- EI&C supply/install	Lump Sum	1		
5f	- Civil/structural	Lump Sum	1		
5g	- Testing and commissioning	Lump Sum	1		
6.	Area H – Headworks – Grit Truck Bay HVAC Replacement				
6a	- MUA(s) supply	Lump Sum	1		
6b	- Exhaust fan(s) supply	Lump Sum	1		
6c	- Demolition	Lump Sum	1		
6d	- Mechanical supply/install	Lump Sum	1		
6e	- EI&C supply/install	Lump Sum	1		
6f	- Civil/structural	Lump Sum	1		
6g	- Testing and commissioning	Lump Sum	1		
7.	Area H – Headworks – Lower Tunnel Area HVAC Replacement				
7a	- MUA(s) supply	Lump Sum	1		
7b	- Exhaust fan(s) supply	Lump Sum	1		
7c	- Demolition	Lump Sum	1		
7d	- Mechanical supply/install	Lump Sum	1		
7e	- EI&C supply/install	Lump Sum	1		
7f	- Civil/structural	Lump Sum	1		
7g	- Testing and commissioning	Lump Sum	1		
8.	Area H – Headworks – Upper Mechanical Room HVAC Replacement				
8a	- Mechanical supply/install	Lump Sum	1		
8b	- Civil/structural	Lump Sum	1		
9.	Area U – Utility Building – Tunnels HVAC Replacement				

FORM I: DETAILED PRICES
 (See D11)
HVAC REPLACEMENT

WEST END WATER POLLUTION CONTROL CENTRE

ITEM NO.	DESCRIPTION	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
9a	- MUA(s) supply	Lump Sum	1		
9b	- Exhaust fan(s) supply	Lump Sum	1		
9c	- Demolition	Lump Sum	1		
9d	- Mechanical supply/install	Lump Sum	1		
9e	- EI&C supply/install	Lump Sum	1		
9f	- Civil/structural	Lump Sum	1		
9g	- Testing and commissioning	Lump Sum	1		
10.	Area U – Utility Building – Maintenance Shop and Chemical Storage Room HVAC Replacement				
10a	- MUA(s) supply	Lump Sum	1		
10b	- transfer fan(s) supply	Lump Sum	1		
10c	- Exhaust fan(s) supply	Lump Sum	1		
10d	- Demolition	Lump Sum	1		
10e	- Mechanical supply/install	Lump Sum	1		
10f	- EI&C supply/install	Lump Sum	1		
10g	- Civil/structural	Lump Sum	1		
10h	- Testing and commissioning	Lump Sum	1		
11.	Area U – Utility Building – Blower Room HVAC Replacement				
11a	- MUA(s) supply	Lump Sum	1		
11b	- Demolition	Lump Sum	1		
11c	- Mechanical supply/install	Lump Sum	1		
11d	- EI&C supply/install	Lump Sum	1		
11e	- Civil/structural	Lump Sum	1		
11f	- Testing and commissioning	Lump Sum	1		

FORM I: DETAILED PRICES
 (See D11)
HVAC REPLACEMENT

WEST END WATER POLLUTION CONTROL CENTRE

ITEM NO.	DESCRIPTION	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
12	Area S – Odour Dispersion Stack (ODS) and Aeration Basin Exhaust System				
12a	- Exhaust fan(s) supply	Lump Sum	1		
12b	- Demolition	Lump Sum	1		
12c	- Mechanical supply/install	Lump Sum	1		
12d	- EI&C supply/install	Lump Sum	1		
12e	- Civil/structural	Lump Sum	1		
12f	- Testing and commissioning	Lump Sum	1		
13	Area U – Administration Building – HVAC Replacement				
13a	- FAF(s) supply	Lump Sum	1		
13b	- Demolition	Lump Sum	1		
13c	- Mechanical supply/install	Lump Sum	1		
13d	- EI&C supply/install	Lump Sum	1		
13e	- Civil/structural	Lump Sum	1		
13f	- Testing and commissioning	Lump Sum	1		
14	Demobilize	Lump Sum	1		
15	Project Close-out Documentation: Record Drawings and O&M Manuals	Lump Sum	1		

FORM K: EQUIPMENT
(See D13)
HVAC REPLACEMENT

WEST END WATER POLLUTION CONTROL CENTRE

1. Category/type:	
Make/Model/Year: _____	Serial No.: _____
Registered owner: _____	
Make/Model/Year: _____	Serial No.: _____
Registered owner: _____	
Make/Model/Year: _____	Serial No.: _____
Registered owner: _____	
2. Category/type:	
Make/Model/Year: _____	Serial No.: _____
Registered owner: _____	
Make/Model/Year: _____	Serial No.: _____
Registered owner: _____	
Make/Model/Year: _____	Serial No.: _____
Registered owner: _____	
3. Category/type:	
Make/Model/Year: _____	Serial No.: _____
Registered owner: _____	
Make/Model/Year: _____	Serial No.: _____
Registered owner: _____	
Make/Model/Year: _____	Serial No.: _____
Registered owner: _____	

FORM K: EQUIPMENT
(See D13)
HVAC REPLACEMENT

WEST END WATER POLLUTION CONTROL CENTRE

4. Category/type:

Make/Model/Year: _____ Serial No.: _____

Registered owner: _____

Make/Model/Year: _____ Serial No.: _____

Registered owner: _____

Make/Model/Year: _____ Serial No.: _____

Registered owner: _____

5. Category/type:

Make/Model/Year: _____ Serial No.: _____

Registered owner: _____

Make/Model/Year: _____ Serial No.: _____

Registered owner: _____

Make/Model/Year: _____ Serial No.: _____

Registered owner: _____

6. Category/type:

Make/Model/Year: _____ Serial No.: _____

Registered owner: _____

Make/Model/Year: _____ Serial No.: _____

Registered owner: _____

Make/Model/Year: _____ Serial No.: _____

Registered owner: _____

PART E - SPECIFICATIONS

GENERAL

E1. APPLICABLE SPECIFICATIONS AND DRAWINGS

- E1.1 These Specifications shall apply to the Work.
- E1.2 *The City of Winnipeg Standard Construction Specifications* in its entirety, whether or not specifically listed on Form B: Prices, shall apply to the Work.
- E1.2.1 *The City of Winnipeg Standard Construction Specifications* is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/Spec/Default.stm>
- E1.2.2 The version in effect three (3) Business Days before the Submission Deadline shall apply.
- E1.2.3 Further to C2.4(d), Specifications included in the Bid Opportunity shall govern over *The City of Winnipeg Standard Construction Specifications*.
- E1.3 The following specifications and drawings applicable to the Work:

Specification No. Title No. of Pages

Specification No.	Title	No. of Pages
01 11 00	Summary of Work	4
01 31 19	Project Meetings	3
01 33 00	Submittal Procedures	3
01 41 00	Regulatory Requirements	2
01 45 00	Quality Control	3
01 52 00	Construction Facilities & Support Services	8
01 56 00	Temporary Barriers & Enclosures	3
01 61 00	Common Product Requirements	5

01 74 11	Cleaning	2
01 77 00	Closeout Procedures	2
01 78 00	Closeout Submittals	8
01 79 00	Demonstration & Training	2
01 91 13	Commissioning Requirements	5
01 91 33	Commissioning Forms/Sample Form	3/22
03 10 00	Concrete Forming & Accessories	2
03 20 00	Concrete Reinforcing	5
03 30 00	Cast-in-Place Concrete	6
04 05 00	Common Work Results for Masonry	6
04 05 12	Masonry Mortar and Grout	6
04 05 19	Masonry Anchorage and Reinforcing	5
04 22 00	Concrete Unit Masonry	4
05 12 23	Structural Steel for Buildings	5
05 21 00	Steel Joist Framing	5

05 31 00	Steel Decking	4
07 92 00	Joint Sealants	6
21 05 01	Common Work Results for Mechanical	4
22 11 16	Domestic Water Piping	6
22 13 17	Drainage, Waste & Vent – CI, CU	3
22 13 18	Drainage, Waste & Vent - Plastic	3
22 15 00	General Service Compressed Air	4
23 05 05	Installation of Pipework	6
23 05 13	Common Motor Requirements – HVAC Equipment	4
23 05 29	Pipe Hangers & Supports for HVAC Equipment and Piping	7
23 05 48	Vibration Control for HVAC Equipment	4
23 05 53.01	Mechanical Identification	7
23 05 93	Testing, Adjusting & Balancing	6
23 07 13	Duct Insulation	5
23 07 15	Thermal Insulation for Piping	7

23 11 23	Facility Natural Gas Piping	5
23 23 00	Refrigerant Piping	5
23 31 13.01	Metal Ducts to 750 Pa	7
23 33 00	Air Duct Accessories	5
23 33 14	Dampers Balancing	3
23 33 15	Dampers Operating	4
23 33 16	Fire & Smoke Dampers	4
23 33 46	Flexible Ducts	2
23 34 00	Fans General	6
23 37 13	Diffusers, Grilles & Registers	4
23 37 30	Louvres, Intakes & Vents	4
23 44 00	HVAC Air Filtration	4
23 51 00	Breeching Chimney & Stacks	4
23 54 16	Fuel Fire Furnaces	6
23 74 00	Packaged Air Handling Units Gas	14

23 82 39	Unit Heaters	3
23 99 99	Appendices Cover/Attachments	1/161
25 30 02	Field Control Devices	7
25 30 10	PLC Control Panels	7
26 05 01	Common Work Results for Electrical	10
26 05 20	Wire & Box Connectors 0-1000V	2
26 05 21	Wires & Cables	3
26 05 28	Grounding – Secondary	3
26 05 29	Hangers and Supports for Electrical Systems	2
26 05 31	Splitters, Junction, Pull Boxes and Cabinets	2
26 05 32	Outlet Boxes, Conduit Boxes and Fittings	3
26 05 34	Conduits, Conduit Fastenings and Conduit Fittings	3
26 05 36	Cable Trays for Electrical Systems	2
26 27 16	Electrical Cabinets and Enclosures	1
26 27 26	Wiring Devices	3

26 28 14	Fuses Low Voltage	2
26 28 21	Moulded Case Circuit Breakers	3
26 28 23	Disconnect Switches – Fused and Non-Fused	2
26 29 03	Control Devices	4
26 29 10	Motor Starters to 600V	3
26 29 23	Variable Frequency Drives	10
26 33 53	Static Uninterruptible Power Supply	9
26 50 00	Lighting	3
27 10 05	Structured Cabling for Communication Systems	4

City Drawing No.	Consultant Dwg No.	Drawing Title	Rev No.
1-0103A-P0007-001	LG2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - ALL AREAS - DRAWING LIST SHEET 1 OF 2	00
1-0103A-P0007-002	LG2.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - ALL AREAS - DRAWING LIST SHEET 2 OF 2	00
1-0103A-P0008-001	LL2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - ALL AREAS - Legend Sheet 1 of 2	00
1-0103A-P0008-002	LL2.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - ALL AREAS - Legend Sheet 2 of 2	00
1-0103A-S0003-001	LS2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - ALL AREAS - TYPICAL STRUCTURAL DETAILS & NOTES	00
1-0103A-S0004-001	LS2.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - ALL AREAS - TYPICAL STRUCTURAL DETAILS & SECTIONS	00

1-0103A-M0008-001	LM2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - ALL AREAS - Details SHEET 1 OF 6	00
1-0103A-M0008-002	LM2.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - ALL AREAS - Details SHEET 2 OF 6	00
1-0103A-M0008-003	LM2.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - ALL AREAS - Details SHEET 3 OF 6	00
1-0103A-M0008-004	LM2.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - ALL AREAS - Details SHEET 4 OF 6	00
1-0103A-M0008-005	LM2.5	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - ALL AREAS - Details SHEET 5 OF 6	00
1-0103A-M0008-006	LM2.6	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - ALL AREAS - Details SHEET 5 OF 6	00
1-0103A-E0007-001	LE2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA L - FACILITY SINGLE LINE DIAGRAM AND PHYSICAL LINE UP	00
1-0103A-E0008-001	LE2.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA L - MCC-A SINGLE LINE DIAGRAM AND PHYSICAL LINE UP	00
1-0103A-E0009-001	LE2.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA L - MCC-B SINGLE LINE DIAGRAM AND PHYSICAL LINE UP	00
1-0103A-E0010-001	LE2.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA L - MCC-1U SINGLE LINE DIAGRAM AND PHYSICAL LINE UP	00
1-0103A-E0011-001	LE2.5	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA L - MCC-2U SINGLE LINE DIAGRAM AND PHYSICAL LINE UP	00
1-0103A-E0012-001	LE2.6	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA L - MCC-1S SINGLE LINE DIAGRAM AND PHYSICAL LINE UP	00
1-0103A-E0013-001	LE2.7	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA L - MCC-2S SINGLE LINE DIAGRAM AND PHYSICAL LINE UP	00
1-0103A-E0014-001	LE2.8	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA L - MCC-1H AND 1HA SINGLE LINE DIAGRAM AND PHYSICAL LINE UP	00
1-0103A-E0015-001	LE2.9	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA L - MCC-2H AND 2HA SINGLE LINE DIAGRAM AND PHYSICAL LINE UP	00
1-0103A-E0016-001	LE2.10	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA L - MCC-HE SINGLE LINE DIAGRAM AND PHYSICAL LINE UP	00
1-0103A-E0017-001	LE2.11	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA L - GENERAL AND SITEWORKS ELECTRICAL SITE PLAN	00
1-0103P-S0001-001	PS2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - PRIMARY CLARIFIERS - AREA P - Distribution Building - Modifications	00
1-0103P-M0004-001	PM1.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - PRIMARY CLARIFIERS 1 AND 2 - AREA P - PUMP ROOM - DEMOLITION PLAN S	00
1-0103P-M0005-001	PM1.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - PRIMARY CLARIFIERS 1 AND 2 - AREA P - DISTRIBUTION ROOM - DEMOLITION PLAN	00
1-0103P-M0006-001	PM2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - PRIMARY CLARIFIERS - AREA P - New Pump Room Plan	00
1-0103P-M0007-001	PM2.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - PRIMARY CLARIFIERS - AREA P - New Pump Room Elevation	00
1-0103P-M0008-001	PM2.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - PRIMARY CLARIFIERS - AREA P - New Pump Room Isometric	00
1-0103P-M0009-001	PM2.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - PRIMARY CLARIFIERS - AREA P - New Distribution Building Plan	00
1-0103P-M0010-001	PM2.5	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - PRIMARY CLARIFIERS - AREA P - New Distribution Building Elevation	00

1-0103P-M0011-001	PM2.6	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - PRIMARY CLARIFIERS - AREA P - New Distribution Building Isometric	00
1-0103P-M0012-001	PM2.7	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - PRIMARY CLARIFIERS - AREA P - Temp. Exhaust During ODS Fan Replacement	00
1-0103P-P0004-001	PP2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA P - PRIMARY CLARIFIERS 1 AND 2 - PROCESS & INSTRUMENTATION DIAGRAM	00
1-0103P-E0001-001	PE2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA P - PRIMARY CLARIFIERS 1 AND 2 - NEW PUMP ROOM PLAN - ELECTRICAL	00
1-0103P-E0002-001	PE2.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA P - PRIMARY CLARIFIERS 1 AND 2 - NEW DISTRIBUTION BUILDING PLAN - ELECTRICAL	00
1-0103P-E0003-001	PE2.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA P - PRIMARY CLARIFIERS 1 AND 2 - HVAC SCHEMATIC & WIRING DIAGRAM	00
1-0103P-E0004-001	PE2.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA P - PRIMARY CLARIFIERS 1 AND 2 - MUA-P600, MCC-1H SCHEMATIC & WIRING DIAGRAM	00
1-0103P-E0005-001	PE2.5	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA P - PRIMARY CLARIFIERS 1 AND 2 - MUA-P650, MCC-2H SCHEMATIC & WIRING DIAGRAM	00
1-0103P-E0006-001	PE2.6	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA P - PRIMARY CLARIFIERS 1 AND 2 - EF - P605 VFD SCHEMATIC & WIRING DIAGRAM	00
1-0103P-E0007-001	PE2.7	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA P - PRIMARY CLARIFIERS 1 AND 2 - EF-P655 VFD SCHEMATIC & WIRING DIAGRAM	00
1-0103P-P0005-001	PE2.8	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA P - PRIMARY CLARIFIERS 1 AND 2 - NETWORK SYSTEM ARCHITECTURE	00
1-0103P-E0008-001	PE2.9	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA P - PRIMARY CLARIFIERS 1 AND 2 - PLC PANEL ARRANGEMENT	00
1-0103P-E0009-001	PE2.10	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA P - PRIMARY CLARIFIERS 1 AND 2 - PLC PANEL POWER SCHEMATIC	00
1-0103P-A0012-001	PI2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA P - PRIMARY CLARIFIERS 1 AND 2 - SLOT 1 DISCRETE INPUT LOOP DRAWING - SHEET 1 OF 2	00
1-0103P-A0012-002	PI2.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA P - PRIMARY CLARIFIERS 1 AND 2 - SLOT 1 DISCRETE INPUT LOOP DRAWING - SHEET 2 OF 2	00
1-0103P-A0013-001	PI2.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA P - PRIMARY CLARIFIERS 1 AND 2 - SLOT 5 DISCRETE OUTPUT LOOP DRAWING SHEET 1 OF 2	00
1-0103P-A0013-002	PI2.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKSSLOT 5 DISCRETE OUTPUT LOOP DRAWING SHEET 2 OF 2	00
1-0103P-A0014-001	PI2.5	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA P - PRIMARY CLARIFIERS 1 AND 2 - SLOT 6 ANALOG INPUT LOOP DRAWING	00
1-0103P-A0015-001	PI2.6	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA P - PRIMARY CLARIFIERS 1 AND 2 - SLOT 11 ANALOG OUTPUT LOOP DRAWING	00
1-0103S-S0020-001	SS2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - New Penthouse - Floor Plan	00

1-0103S-S0021-001	SS2.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - New Penthouse - Roof Plan	00
1-0103S-S0022-001	SS2.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - New Penthouse - Floor Sections	00
1-0103S-S0023-001	SS2.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - New Penthouse - Sections and Details	00
1-0103S-S0024-001	SS2.5	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - New Penthouse -Sections	00
1-0103S-S0025-001	SS2.7	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - Distribution Building & Pumphouse Existing Exhaust Stack & Roof Openings	00
1-0103S-M0011-001	SM1.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - Pump Room - Demolition Plan	00
1-0103S-M0012-001	SM1.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - Distribution Building - Demolition	00
1-0103S-M0013-001	SM1.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - Distribution Building Roof - Demolition	00
1-0103S-M0014-001	SM2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - Pump Room - New Plan	00
1-0103S-M0015-001	SM2.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - Pump Room - New Sections	00
1-0103S-M0016-001	SM2.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - Pump Room - New Isometric	00
1-0103S-M0017-001	SM2.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - Distribution Building - New Plan	00
1-0103S-M0018-001	SM2.5	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - Distribution Building - New Sections	00
1-0103S-M0019-001	SM2.6	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - Distribution Building - New Isometric	00
1-0103S-M0020-001	SM2.7	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - Penthouse - New Plan	00
1-0103S-M0021-001	SM2.8	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - Penthouse - New Elevation	00
1-0103S-M0022-001	SM2.9	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - Penthouse New Isometric	00
1-0103S-P0020-001	SP2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - PROCESS & INSTRUMENTATION DIAGRAM	00
1-0103S-E0014-001	SE2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - PUMP ROOM - NEW PLAN - ELECTRICAL	00
1-0103S-E0015-001	SE2.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - DISTRIBUTION BUILDING - NEW PLAN - ELECTRICAL	00

1-0103S-E0016-001	SE2.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - PENTHOUSE - NEW PLAN - ELECTRICAL	00
1-0103S-E0017-001	SE2.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - HVAC SCHEMATIC & WIRING DIAGRAM	00
1-0103S-E0018-001	SE2.5	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - MUA-S600, MCC-1S SCHEMATIC & WIRING DIAGRAM	00
1-0103S-E0019-001	SE2.6	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - MUA-S650, MCC-2S SCHEMATIC & WIRING DIAGRAM	00
1-0103S-E0020-001	SE2.7	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - EF-S605 VFD SCHEMATIC & WIRING DIAGRAM	00
1-0103S-E0021-001	SE2.8	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - EF-S655 VFD SCHEMATIC & WIRING DIAGRAM	00
1-0103S-P0021-001	SE2.9	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - NETWORK SYSTEM ARCHITECTURE	00
1-0103S-E0022-001	SE2.10	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - PLC PANEL ARRANGEMENT	00
1-0103S-E0023-001	SE2.11	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - PLC PANEL POWER SCHEMATIC	00
1-0103S-E0023-002	SE2.12	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - PLC PANEL POWER SCHEMATIC	00
1-0103S-E0027-001	SE2.13	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - EF-S670 VFD SCHEMATIC & WIRING DIAGRAM	00
1-0103S-A0112-001	SI2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - SLOT 1 DISCRETE INPUT LOOP DRAWING SHEET 1 OF 2	00
1-0103S-A0112-002	SI2.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - SLOT 1 DISCRETE INPUT LOOP DRAWING SHEET 2 OF 2	00
1-0103S-A0113-001	SI2.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - SLOT 2 DISCRETE INPUT LOOP DRAWING SHEET 1 OF 2	00
1-0103S-A0113-002	SI2.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - SLOT 2 DISCRETE INPUT LOOP DRAWING SHEET 2 OF 2	00
1-0103S-A0114-001	SI2.5	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - SLOT 5 DISCRETE OUTPUT LOOP DRAWING SHEET 1 OF 2	00
1-0103S-A0114-002	SI2.6	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - SLOT 5 DISCRETE OUTPUT LOOP DRAWING SHEET 2 OF 2	00
1-0103S-A0115-001	SI2.7	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - SLOT 6 ANALOG INPUT LOOP DRAWING	00
1-0103S-A0116-001	SI2.8	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - SECONDARY CLARIFIERS 1 AND 2 - SLOT 11 ANALOG OUTPUT LOOP DRAWING	00
1-0103S-S0026-001	SS2.6	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - ODOUR DISPERSION ROOM - MAINTENANCE PLATFORM & MONORAIL	00

1-0103S-M0023-001	SM3.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - ODOUR DISPERSION ROOM - HVAC - Existing Conditions - Plan	00
1-0103S-M0024-001	SM3.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - ODOUR DISPERSION ROOM - HVAC - Existing Conditions - Section	00
1-0103S-M0025-001	SM3.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - ODOUR DISPERSION ROOM - HVAC - Existing Conditions - Isometric	00
1-0103S-M0026-001	SM4.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - ODOUR DISPERSION ROOM - HVAC - New Conditions - Plan	00
1-0103S-M0027-001	SM4.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - ODOUR DISPERSION ROOM - HVAC - New Conditions - Section	00
1-0103S-M0028-001	SM4.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - ODOUR DISPERSION ROOM - HVAC - New Conditions - Isometric	00
1-0103S-P0022-001	SP4.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - ODOUR DISPERSION ROOM - PROCESS AND INSTRUMENTATION DIAGRAM	00
1-0103S-E0026-001	SE4.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - ODOUR DISPERSION ROOM - ODOUR DISPERSION ROOM PLAN - ELECTRICAL	00
1-0103S-E0024-001	SE4.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - ODOUR DISPERSION ROOM - EF-S735 VFD SCHEMATIC & WIRING DIAGRAM	00
1-0103S-E0025-001	SE4.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - ODOUR DISPERSION ROOM - EF-S745 VFD SCHEMATIC & WIRING DIAGRAM	00
1-0103G-S0001-001	HS2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - Mechanical Roof Plan	00
1-0103G-S0002-001	HS2.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - Building Sections and Details	00
1-0103G-S0003-001	HS2.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - Lower Process - Access Platform	00
1-0103G-M0001-001	HM1.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - MECHANICAL ROOM Equipment - Existing Conditions	00
1-0103G-M0002-001	Hm1.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - MECHANICAL ROOM Ductwork - Existing Conditions	00
1-0103G-M0003-001	HM1.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - MECHANICAL ROOM Roof - Existing Conditions	00
1-0103G-M0004-001	HM1.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - MECHANICAL ROOM Existing Conditions - Sections	00
1-0103G-M0005-001	HM1.5	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - MECHANICAL ROOM Existing Conditions - Isometric	00
1-0103G-M0006-001	HM1.6	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - MECHANICAL ROOM - Isometric	00
1-0103G-M0007-001	HM1.7	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - MECHANICAL ROOM Roof Existing Conditions - Isometric	00
1-0103G-M0008-001	HM1.8	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - Lower Process Floor Ventilation - Existing Conditions	00

1-0103G-M0009-001	HM1.9	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - Upper Process Level, Grit and Sludge Truck Bay Ventilation	00
1-0103G-M0010-001	HM1.10	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - Grit/Screening Receiving Ventilation - Existing Conditions	00
1-0103G-M0011-001	HM1.11	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - Process Area Ventilation Existing Conditions - Section	00
1-0103G-M0012-001	HM1.12	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - Upper Process Level Ventilation - Existing Conditions Isometric	00
1-0103G-M0013-001	HM1.13	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - Sludge Truck Bay Ventilation - Existing Conditions Isometric	00
1-0103G-M0014-001	HM1.14	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - Lower Process Level Ventilation - Existing Conditions Isometric	00
1-0103G-M0015-001	HM1.15	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS -	00
1-0103G-M0016-001	HM1.16	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - Process and MECHANICAL ROOM Area Roof - Existing Conditions Isometric	00
1-0103G-M0017-001	HM2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - MECHANICAL ROOM New Equipment - Plan	00
1-0103G-M0018-001	HM2.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - MECHANICAL ROOM Ventilation - Ductwork Modifications	00
1-0103G-M0019-001	HM2.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - MECHANICAL ROOM Roof - New Conditions Plan	00
1-0103G-M0020-001	HM2.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - MECHANICAL ROOM New Conditions - Sections	00
1-0103G-M0021-001	HM2.5	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - MECHANICAL ROOM - New Conditions Isometric	00
1-0103G-M0022-001	HM2.6	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - MECHANICAL ROOM - New Conditions Isometric	00
1-0103G-M0023-001	HM2.7	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - MECHANICAL ROOM Roof - New Conditions Isometric	00
1-0103G-M0024-001	HM2.8	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - Lower Process Level - New Conditions Plan	00
1-0103G-M0025-001	HM2.9	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - Upper Process Level and Sl. Truck Bay - New Conditions	00
1-0103G-M0026-001	HM2.10	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - Grit/Screening Receiving Ventilation - New Conditions	00
1-0103G-M0027-001	HM2.11	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - Process Area - New Conditions Section	00
1-0103G-M0028-001	HM2.12	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - Process Area - New Conditions Isometric	00
1-0103G-M0029-001	HM2.13	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - Lower Process Level - New Conditions Isometric	00

1-0103G-M0030-001	HM2.14	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - Upper Process Level Ductwork - New Conditions Isometric	00
1-0103G-M0031-001	HM2.15	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - Lower Process Level Ductwork - New Conditions Isometric	00
1-0103G-M0032-001	HM2.16	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - Upper Process Level - New Conditions Isometric	00
1-0103G-M0033-001	HM2.17	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - Sludge Truck Bay Ventilation - New Conditions Isometric	00
1-0103G-P0001-001	HP2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - PROCESS & INSTRUMENTATION DIAGRAM SHEET 1 OF 3	00
1-0103G-P0001-002	HP2.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - PROCESS & INSTRUMENTATION DIAGRAM SHEET 2 OF 3	00
1-0103G-P0001-003	HP2.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - PROCESS & INSTRUMENTATION DIAGRAM SHEET 3 OF 3	00
1-0103G-E0001-001	HE2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - M. ROOM NEW EQUIPMENT - PLAN - ELECTRICAL	00
1-0103G-E0002-001	HE2.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - LOWER PROCESS LEVEL - PLAN - ELECTRICAL	00
1-0103G-E0003-001	HE2.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - UPPER PROC. LEVEL AND SL. TRUCK BAY - PLAN - ELECTRICAL	00
1-0103G-E0004-001	HE2.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - GRIT/SCREENING RECEIVING VENTILATION - PLAN - ELECTRICAL	00
1-0103G-E0005-001	HE2.5	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - MUA-H600, MCC-1H SCHEMATIC & WIRING DIAGRAM	00
1-0103G-E0006-001	HE2.6	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - MUA-H650, MCC-1H SCHEMATIC & WIRING DIAGRAM	00
1-0103G-E0007-001	HE2.7	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - EF-H630 FVNR SCHEMATIC & WIRING DIAGRAM	00
1-0103G-E0008-001	HE2.8	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - EF-H730 FVNR SCHEMATIC & WIRING DIAGRAM	00
1-0103G-E0009-001	HE2.9	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - MUA-H700, MCC-1H SCHEMATIC & WIRING DIAGRAM	00
1-0103G-E0010-001	HE2.10	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - EF-H605A FVNR SCHEMATIC & WIRING DIAGRAM	00
1-0103G-E0011-001	HE2.11	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - MUA-H725, MCC-?? SCHEMATIC & WIRING DIAGRAM	00
1-0103G-E0012-001	HE2.12	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - EF-H605 FVNR SCHEMATIC & WIRING DIAGRAM	00
1-0103G-E0013-001	HE2.13	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - EF-H672 FVNR SCHEMATIC & WIRING DIAGRAM	00

1-0103G-E0014-001	HE2.14	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - EF-H655 FVNR SCHEMATIC & WIRING DIAGRAM	00
1-0103G-P0002-001	HE2.15	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - NETWORK SYSTEM ARCHITECTURE	00
1-0103G-E0015-001	HE2.16	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA S - HEADWORKS - PLC PANEL ARRANGEMENT	00
1-0103G-E0016-001	HE2.17	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - PLC PANEL POWER SCHEMATIC SHEET 1 OF 2	00
1-0103G-E0016-002	HE2.18	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - PLC PANEL POWER SCHEMATIC SHEET 2 OF 2	00
1-0103G-A0001-001	HI2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - SLOT 1 DISCRETE INPUT LOOP DRAWING SHEET 1 OF 2	00
1-0103G-A0001-002	HI2.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - SLOT 1 DISCRETE INPUT LOOP DRAWING SHEET 2 OF 2	00
1-0103G-A0002-001	HI2.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - SLOT 2 DISCRETE INPUT LOOP DRAWING SHEET 1 OF 2	00
1-0103G-A0002-002	HI2.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - SLOT 2 DISCRETE INPUT LOOP DRAWING SHEET 2 OF 2	00
1-0103G-A0003-001	HI2.5	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - SLOT 5 DISCRETE OUTPUT LOOP DRAWING SHEET 1 OF 2	00
1-0103G-A0003-002	HI2.6	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - SLOT 5 DISCRETE OUTPUT LOOP DRAWING SHEET 2 OF 2	00
1-0103G-A0004-001	HI2.7	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - SLOT 6 ANALOG INPUT LOOP DRAWING	00
1-0103G-A0005-001	HI2.8	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - SLOT 10 ANALOG OUTPUT LOOP DRAWING	00
1-0103G-A0006-001	HI2.9	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA H - HEADWORKS - SLOT 11 ANALOG OUTPUT LOOP DRAWING	00
1-0103V-M0001-001	UM1.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - TUNNEL VENTILATION - Site Plan	00
1-0103V-M0002-001	UM1.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - TUNNEL VENTILATION - S675 & S695 Existing Conditions - Plan & Section	00
1-0103V-M0003-001	UM1.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - TUNNEL VENTILATION - S612 & S680 Existing Conditions - Plan & Section	00
1-0103V-M0004-001	UM1.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - TUNNEL VENTILATION - P625 & S690 Existing Conditions - Plan & Section	00
1-0103V-M0005-001	UM2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - TUNNEL VENTILATION - S675 & S695 New Conditions - Plan & Section	00
1-0103V-M0006-001	UM2.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - TUNNEL VENTILATION - S612 & S680 New Conditions - Plan & Section	00
1-0103V-M0007-001	UM2.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - TUNNEL VENTILATION - P625 & S690 New Conditions - Plan & Section	00

1-0103V-P0001-001	UP2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - TUNNEL VENTILATION - PROCESS & INSTRUMENTATION DIAGRAM	00
1-0103V-E0001-001	UE2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - TUNNEL VENTILATION - S675 & S695 NEW CONDITIONS - PLAN - ELECTRICAL	00
1-0103V-E0002-001	UE2.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - TUNNEL VENTILATION - S612 & S680 NEW CONDITIONS - PLAN - ELECTRICAL	00
1-0103V-E0003-001	UE2.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - TUNNEL VENTILATION - P625 & S690 NEW CONDITIONS - PLAN - ELECTRICAL	00
1-0103V-E0004-001	UE2.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - TUNNEL VENTILATION - MUA-U600, MCC-1U SCHEMATIC & WIRING DIAGRAM	00
1-0103V-E0005-001	UE2.5	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - TUNNEL VENTILATION - EF-P625 FVNR SCHEMATIC & WIRING DIAGRAM	00
1-0103V-E0006-001	UE2.6	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - TUNNEL VENTILATION - EF-S695 FVNR SCHEMATIC & WIRING DIAGRAM	00
1-0103V-E0007-001	UE2.7	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - TUNNEL VENTILATION - EF-S612, S675 AND S680 FVNR SCHEMATIC & WIRING DIAGRAM	00
1-0103V-E0008-001	UE2.8	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - TUNNEL VENTILATION - EF-S690 FVNR SCHEMATIC & WIRING DIAGRAM	00
1-0103V-P0002-001	UP3.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - Process Flow Diagram (Exist) SHEET 1 OF 3	00
1-0103V-P0002-002	UP3.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - Process Flow Diagram (Exist) SHEET 2 OF 3	00
1-0103V-P0002-003	UP3.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - Process Flow Diagram (Exist) SHEET 3 OF 3	00
1-0103V-P0003-001	UP4.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - Process Flow Diagram (New) SHEET 1 OF 2	00
1-0103V-P0003-002	UP4.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - Process Flow Diagram (New) SHEET 2 OF 2	00
1-0103V-M0008-001	UM3.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - General Arrangement	00
1-0103V-M0009-001	UM3.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM -General Layout (Exist)	00
1-0103V-M0010-001	UM3.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - Equipment Layout (Exist)	00
1-0103V-M0011-001	UM3.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - O/A Ducting Layout (Exist)	00
1-0103V-M0012-001	UM3.5	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - R/A Ducting Layout (Exist)	00
1-0103V-M0013-001	UM3.6	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - S/A Ducting Layout (Exist)	00

1-0103V-M0014-001	UM3.7	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - Equip. Vent Layout (Exist)	00
1-0103V-M0015-001	UM3.8	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - Mech Rm. - Nat. Gas Supply Piping Layout (Exist)	00
1-0103V-M0016-001	UM3.9	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - Cond. Return Layout (Exist)	00
1-0103V-M0017-001	UM3.10	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - Refrigeration Piping Layout (Exist)	00
1-0103V-M0018-001	UM3.11	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - Roof Layout (Exist)	00
1-0103V-M0019-001	UM3.12	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - Furnace details (Exist)	00
1-0103V-M0020-001	UM4.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - General Layout (New)	00
1-0103V-M0021-001	UM4.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - Equipment Layout (New)	00
1-0103V-M0022-001	UM4.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - O/A Ducting Layout (New)	00
1-0103V-M0023-001	UM4.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - R/A Ducting Layout (New)	00
1-0103V-M0024-001	UM4.5	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - S/A Ducting Layout (new)	00
1-0103V-M0025-001	UM4.6	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - Equip. Vent Layout (New)	00
1-0103V-M0026-001	UM4.7	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - Nat. Gas Supply Piping Layout (New)	00
1-0103V-M0027-001	UM4.8	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - Cond. Return Layout (New)	00
1-0103V-M0028-001	UM4.9	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - Refrigeration Piping Layout (New)	00
1-0103V-M0029-001	UM4.10	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - Roof Layout (New)	00
1-0103V-M0030-001	UM4.11	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - Equip. Details and Iso (New)	00
1-0103V-M0031-001	UM4.12	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - Equipment Details and Isometrics (New)	00
1-0103V-M0032-001	UM4.13	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - Equipment Details and Isometrics (New)	00
1-0103V-M0033-001	UM4.14	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - MECHANICAL ROOM - MISC. WORK (NEW)	00

1-0103V-E0021-001	UE4.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - ADMINISTRATION BUILDING - ELECTRICAL PLAN	00
1-0103V-S0001-001	US2.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - Mezzanine Floor Framing Plan	00
1-0103V-S0002-001	US2.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - Structural - Roof Framing Plan	00
1-0103V-S0003-001	US2.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - Building Sections and Details	00
1-0103V-S0004-001	US2.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - Building Sections	00
1-0103V-M0034-001	UM5.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - Lower Level Ventilation - Existing Conditions	00
1-0103V-M0035-001	UM5.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - Main Level & Mezz. - Existing Equipment	00
1-0103V-M0036-001	UM5.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - Main Level & Mezz. Ventilation - Existing Conditions	00
1-0103V-M0037-001	UM5.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - Utility Building Roof - Existing Conditions Plan	00
1-0103V-M0038-001	UM5.5	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - Utility Building - Existing Garage N. Gas Distribution Plan	00
1-0103V-M0039-001	UM5.6	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - Main Level & Mezz. - Existing Conditions Isometric	00
1-0103V-M0040-001	UM5.7	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - Utility Building Roof - Existing Conditions Isometric	00
1-0103V-M0041-001	UM6.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - lower Level Ventilation - New Conditions	00
1-0103V-M0042-001	UM6.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - Main Level & Mezz. - New Equipment	00
1-0103V-M0043-001	UM6.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - Main Level & Mezz. Ventilation - New Conditions	00
1-0103V-M0044-001	UM6.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - Utility Building Roof - New Conditions Plan	00
1-0103V-M0045-001	UM6.5	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - Utility Building Garage - Modified N. Gas Distribution Plan	00
1-0103V-M0046-001	UM6.6	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - Ventilation - New Conditions Elevations	00
1-0103V-M0047-001	UM6.7	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - Ventilation - New Conditions Elevations	00
1-0103V-M0048-001	UM6.8	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - Lower Level Ventilation - New Conditions Isometric	00
1-0103V-M0049-001	UM6.9	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - Ventilation - New Conditions Isometric	00

1-0103V-M0050-001	UM6.10	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - U640-AHU Vent. System - New Conditions Isometric	00
1-0103V-M0051-001	UM6.11	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - U610-MUA Garage Ventilation - New Conditions Isometric	00
1-0103V-M0052-001	UM6.12	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - Utility Building Roof - New Conditions Isometric	00
1-0103V-M0053-001	UM6.13	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - U600-MUA Blower Room Access Plan	00
1-0103V-M0054-001	UM6.14	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - Existing O/A Louvers Plenum Modifications	00
1-0103V-P0004-001	UP6.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - PROCESS & INSTRUMENTATION DIAGRAM SHEET 1 OF 3	00
1-0103V-P0004-002	UP6.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - PROCESS & INSTRUMENTATION DIAGRAM SHEET 2 OF 3	00
1-0103V-P0004-003	UP6.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - PROCESS & INSTRUMENTATION DIAGRAM SHEET 3 OF 3	00
1-0103V-E0009-001	UE6.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - LOWER LEVEL VENTILATION - ELECTRICAL	00
1-0103V-E0010-001	UE6.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY -MAIN LEVEL & MEZZ. - ELECTRICAL	00
1-0103V-E0011-001	UE6.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - MUA-U640, MCC-2U SCHEMATIC & WIRING DIAGRAM	00
1-0103V-E0012-001	UE6.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - MUA-U605, MCC-2U SCHEMATIC & WIRING DIAGRAM	00
1-0103V-E0013-001	UE6.5	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - MUA-U610, MCC-1U SCHEMATIC & WIRING DIAGRAM	00
1-0103V-E0014-001	UE6.6	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - SF-U620 FVNR SCHEMATIC & WIRING DIAGRAM	00
1-0103V-E0015-001	UE6.7	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - EF-U670 FVNR SCHEMATIC & WIRING DIAGRAM	00
1-0103V-E0016-001	UE6.8	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - EF-U675 FVNR SCHEMATIC & WIRING DIAGRAM	00
1-0103V-E0017-001	UE6.9	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - EF-U625 FVNR SCHEMATIC & WIRING DIAGRAM	00
1-0103V-E0018-001	UE6.10	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - EF-U635 FVNR SCHEMATIC & WIRING DIAGRAM	00
1-0103V-P0005-001	UE6.11	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - NETWORK SYSTEM ARCHITECTURE	00
1-0103V-E0019-001	UE6.12	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - PLC PANEL ARRANGEMENT	00
1-0103V-E0020-001	UE6.13	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - PLC PANEL POWER SCHEMATIC SHEET 1 OF 2	00

1-0103V-E0020-002	UE6.14	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - PLC PANEL POWER SCHEMATIC SHEET 2 OF 2	00
1-0103V-A0001-001	UI6.1	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - SLOT 1 DISCRETE INPUT LOOP DRAWING SHEET 1 OF 2	00
1-0103V-A0001-002	UI6.2	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - SLOT 1 DISCRETE INPUT LOOP DRAWING SHEET 2 OF 2	00
1-0103V-A0002-001	UI6.3	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - SLOT 2 DISCRETE INPUT LOOP DRAWING SHEET 1 OF 2	00
1-0103V-A0002-002	UI6.4	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - SLOT 2 DISCRETE INPUT LOOP DRAWING SHEET 2 OF 2	00
1-0103V-A0003-001	UI6.5	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - SLOT 3 DISCRETE INPUT LOOP DRAWING SHEET 1 OF 2	00
1-0103V-A0003-002	UI6.6	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - SLOT 3 DISCRETE INPUT LOOP DRAWING SHEET 2 OF 2	00
1-0103V-A0004-001	UI6.7	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - SLOT 5 DISCRETE OUTPUT LOOP DRAWING SHEET 1 OF 2	00
1-0103V-A0004-002	UI6.8	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - SLOT 5 DISCRETE OUTPUT LOOP DRAWING SHEET 2 OF 2	00
1-0103V-A0005-001	UI6.9	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - SLOT 6 ANALOG INPUT LOOP DRAWING	00
1-0103V-A0006-001	UI6.10	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - SLOT 7 ANALOG INPUT LOOP DRAWING	00
1-0103V-A0007-001	UI6.11	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - SLOT 10 ANALOG OUTPUT LOOP DRAWING	00
1-0103V-A0008-001	UI6.12	WEWPCC - 2010 HVAC REPLACEMENT AND ASSOCIATED WORKS - AREA U - MECHANICAL BAY - SLOT 11 ANALOG OUTPUT LOOP DRAWING	00