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REQUEST FOR PROPOSAL (RFP)
FOR
OUTDOOR COMMUNITY POOL REPAIR AND LINER REPLACEMENT
HUDSON'S HOPE, BC

MUNICIPALITY OF THE DISTRICT OF HUDSON'S HOPE
9904 Dudley Drive
Hudson's Hope, BC, V0C 1V0

Issue Date: February 21, 2024

Closing Date: March 13, 2024

1. Background

The District of Hudson's Hope operates an outdoor inground community pool vital to our summer recreational activities. The community pool was constructed in 1998 with a concrete base and prefabricated steel wall panels made by Mythra. The District requires the concrete surface to be repaired and the pool liner replaced.

2. Summary

The District of Hudson's Hope is seeking proposals from qualified pool installation and service providers to perform concrete repair, leak detection, and pool liner installation for our outdoor community pool in Hudson's Hope, BC. This work must be completed and the pool operational no later than June 27th, 2024.

The community pool was constructed in 1998 with a concrete base and prefabricated steel wall panels made by Mythra. The membrane liner has reached the end of its useful life and has been roughly patched over the past few years. Recently, the pool has experienced what is believed to be spalling on the concrete surface underneath the liner, accumulating small pieces of concrete under the liner.

The pool comprises a 25m six-lane competition pool with an integrated zero-depth play area. The PVC membrane will be removed and replaced, including all wall surfaces, pool markings, and a Poly-Extruded 'soft-walk' sub-floor beneath the membrane. The pool is a Myrtha diagonal flow system, and repairs are conditional on a certificate from the manufacturer confirming the continuation of the structural guarantee of the pool shell. The membrane work shall carry a 10-year warranty for materials and a 2-year warranty on workmanship. The successful proponent will supply and install all required components for the work they are awarded except as noted in the proposal documents.

The information included in this RFP is not prescriptive or overly detailed. Proponents must familiarize themselves with the required work and submit their bids accordingly.

3. Scope of Work

a. Draining the Pool:

- Professionally remove the remaining water from the swimming pool using appropriate equipment and methods.

b. Membrane Removal and Disposal:

- Carefully remove the existing PVC membrane, ensuring a thorough and complete disposal process in accordance with environmental regulations.

c. Leak Detection:

- Pressure testing of all buried plumbing lines, including wall return inlets and main drains, as well as a visual inspection of the facility's mechanical room with a written report provided to the facility.

d. Concrete Floor Inspection:

- Conduct a comprehensive inspection of the concrete floor, documenting its current condition and identifying any areas that require attention.

e. Concrete Flooring Repair and Grouting:

- Perform necessary repairs to the concrete flooring, including grouting beneath the Stainless Steel pool structure. Ensure pool surface is prepared as per specification and supplier recommendations.

f. ABS Components Removal and Disposal:

- Safely remove and dispose of all ABS components, including pool coping, grating, and return fittings, following proper waste disposal procedures.

g. Gutter Waterproofing Inspection and Sealing:

- Inspect the gutter system for waterproofing issues and apply sealing as needed, addressing any potential leakage points.

h. Myrtha Panel System Preparation:

- Thoroughly inspect and prepare the existing Myrtha panel system for re-lining, ensuring a smooth and suitable surface for the installation process.

i. Sub-Flooring Installation:

- Install Poly-Extruded Matting (PEM Soft-Walk) as sub-flooring, providing a cushioned and supportive foundation for the new pool liner.

j. PVC Membrane Installation:

- Professionally install the PVC membrane on the pool walls, ensuring precise fitting and adherence, followed by meticulous PVC sealing for optimal durability.

k. Thermo-Plastic Welding:

- Utilize thermo-plastic welding techniques to establish a secure connection to the existing Myrtha laminate, ensuring seamless and watertight integration.

l. PVC Membrane Installation on Pool Floor:

- Expertly install the PVC membrane on the pool floor, ensuring precise fitting and adherence to create a watertight seal. Apply PVC sealing to enhance durability and longevity.

m. Thermo-Plastic Welding to Existing Main-Drain Flanges:

- Employ thermo-plastic welding techniques to establish a secure connection between the newly installed components and the existing main-drain flanges, ensuring seamless and robust integration.

n. Installation of New ABS Components:

- Integrate new ABS components, including coping, grating, and pool fittings, with precision and adherence to industry standards, enhancing the aesthetics and functionality of the pool.

o. Dying of 6X Floor and Wall Markings:

- Apply dye to the 6X floor and wall markings with precision, ensuring clear visibility and longevity of the markings, enhancing safety and aesthetics.

p. Cleaning

- Broom clean pool and surrounding deck area. Remove marks or dirty spots. Remove all trash and debris.

q. Pool Fill and Commissioning:

- Execute the pool filling process efficiently, taking necessary measures to prevent any damage to the newly installed components. Commission the pool, ensuring all systems are operational, and conduct a comprehensive check to confirm readiness for use.

r. Service & Care:

- Provide a service and care session of approximately 2 hours with the owner-designated agent. Provide patch kit and care instructions in a written format (and digital), plus about ten sq meters of colour-matched scrap patch material.

4.0 Membrane Specifications

Membrane Manufacturer: Mythra Pool Systems

Model T2000 Evolution

Colour: Light Blue

Lanes: 6 New Black floor lanes

5.0 Submittal Requirements

- a) A description of the Proponent's understanding of the project
- b) Qualification, Experience, and references. The proponent demonstrates they have at least 5 years of experience in commercial pool PVC membrane renovations and repair projects. Three (3) references for comparable projects. One reference must be for a pool in an outdoor environment similar to the proposed project.

- c) All work proposed by a qualified pool service and equipment company must be complete to code and meet or exceed industry standards. Submit line-item descriptions on each project component with equipment and materials specifications and warranty.
- d) The methodology for carrying out the required work.
- e) Submit a copy of your Business License and proof of the company's insurance for pool installation and equipment company.
- f) Submit proof of qualifications to continue or extend product guarantee for propriety product installed.
- g) Submit GANTT with a schedule to match the required completion by June 24th, 2024.
- h) Completed form in Schedule A

6.0 Proposal Guidelines

6.1 Purpose and Eligibility

- a) Pool service and equipment companies must have at least five years of experience in commercial pool PVC membrane renovations and repair projects.
- b) The proponent must be Mythra certified and provide proof of certification.

This Request for Proposal represents the guidelines for an open and competitive process. If the organization submitting a proposal must outsource or contract any work to meet the guidelines, the proposal must clearly state this.

This is a Request for Proposals and is not a contract tender call. No contractual, tort or other legal obligations are created or imposed on the District by this RFP or by submission of any Proposal or by consideration of, or failure or refusal to, consider any Proposal by the District. Further, the award confirmation letter(s), is the sole source of any contractual obligation on the District with respect to the Project.

For each component of the project work, proposals from a proponent received in response to this RFP will be evaluated, and the Proponent(s) judged to have the "best overall solutions" in relation to that work component will be designated as the "Preferred Proponent" and awarded the relevant work.

This document references the "Proponent" as the entity preparing the response to the RFP, including its Prime Members. The term "Contractor" represents the Proponent after the Agreement is signed.

"Preferred Proponent" is the Proponent judged to have the "best overall proposal" which will be awarded the project for the District.

Additionally, all costs included in proposals must be all-inclusive, including any outsourced or contracted work. Any proposals which call for outsourcing or contracting work must include a name and description of the organizations being contracted. All costs must be itemized to include an explanation of all fees and costs.

7.0 Submission of Proposals

Each proponent must submit one (1) digital copy of their proposal titled "Outdoor Community Pool Repair and Liner Replacement" ", by email must be received by **4:00 pm, March 13, 2024, to:**

Robert Dauphinee, Director of Public Works
District of Hudson's Hope
P.O. Box 330 Hudson's Hope, BC V0C 1V0
Email: Robert@hudsonshope.ca

Each Proposal shall be valid for 90 days from the Proposal Due Date.

The District reserves the right to reject any or all Proposals without any obligation or reimbursement to the Proponents. If, in the sole opinion of the District, the Schedule of Prices provided by a Proponent is unreasonably low (i.e., the Work could not be completed for the quoted price), the District reserves the right to disqualify the submission.

The District may reject any Proposal in which, in the opinion of the District, the figures displayed in the Schedule of Prices are inherently unbalanced and do not adequately reflect the cost to perform the Work identified, or if the proposed Project schedule does not accurately reflect the time required to perform the Work.

8.0 Inquiries

All inquiries related to this RFP, including whether or not the Contract has been awarded, should be directed in writing to the District.

Robert Dauphinee, Director of Public Works
District of Hudson's Hope
P.O. Box 330 Hudson's Hope, BC V0C 1V0
Email: Robert@hudsonshope.ca

Information obtained from any person or source other than the above District representatives may not be relied upon. The District is not required to provide a response to any inquiry. Inquiries should be made no less than five (5) working days prior to Closing Time.

The District reserves the right not to respond to inquiries made less than five (5) working days prior to Closing Time.

Proponents finding discrepancies or omissions in the RFP, or having questions as to the meaning or intent of any provision, should immediately notify the District representative. If the District determines that an amendment is required to the RFP, the District will issue a written addendum to the Proponents. No oral conversation will affect or modify the terms of this RFP or be relied upon by any Proponent.

9.0 Addenda

If the District determines that an amendment is required to the RFP, the District will issue a written addendum to all Proponents that shall be incorporated into and become a part of this RFP. Failure to acknowledge and address all addenda in a Proposal may render the Proposal invalid.

10.0 Right to Modify Terms and Negotiate

The District at its sole discretion, reserves the right to modify the terms of the RFP at any time before the Closing Time. The District reserves the right following the Closing Time, and in accordance with the terms of this RFP, to negotiate with one or more Preferred Proponents any modifications or variation of the terms of the RFP, including any of the documents referred to in the definition of "Contract" herein or any modification or variation of the terms of any Proposal, including price, that the District considers to be in its best interests. For certainty and without limiting the foregoing, the District may, for the purpose of entering into a Contract with any Proponent, amend the description of the work included in this RFP so that it accurately reflects the services to be provided by the Proponent.

11.0 Examination of Documents and Site

Upon submitting a proposal each Proponent shall be deemed to have carefully examined and understood the guidelines and limitations of the RFP, including all attached Appendices, the contract and the site prior to preparing and submitting a Proposal, with respect to any and all facts which may influence the decision to prepare and submit a Proposal.

Site visits can be scheduled in advance with the District representative named in Section 5.

12.0 Proposal Submission Form and Contents

12.1 Form of Proposal

See Section 5.0 Submittal Requirements.

12.2 Signature

The Proposal should be signed by a person authorized to sign on behalf of the Proponent and include the following:

- a) If the Proponent is a corporation, then the corporation's full legal name should be included, together with the names of the authorized signatories. The Proposal should be executed by one or more of the authorized signatories.
- b) If the Proponent is a partnership or joint venture, then the legal name and the name of each partner or joint venture should be included. Each partner or joint venture should sign personally (or if one or more person(s) having signing authority for the partnership or joint venture provided evidence to the satisfaction of the District that the person(s) signing have signing authority for the partnership or joint venture). If a partner or joint venture is a corporation, then such corporation should sign as indicated in subsection (a) above.
- c) If the Proponent is an individual, including sole proprietorship, the name of the Individual should be included.

13.0. Proposal Evaluation

13.1 Evaluation Team

The Evaluation Team will undertake the evaluation of Proposals. The Evaluation Team may consult with others, including other District staff members, third-party consultants, and references, as it may, at its discretion, decide is required.

13.2 Mandatory Guidelines

The following are the mandatory guidelines:

- a) The Proposals must be received at the Submission Location before the Submission Time.
- b) The proponent must submit the signed form in Appendix A – Forms of Proposal.

13.3 Evaluation Criteria

The District of Hudson's Hope will evaluate all proposals based on the following criteria. To ensure consideration for this Request for Proposal, your proposal should be complete and include all the following criteria:

- a) Overall repair and maintenance: proposed solution(s) must meet the scope and needs included herein and be presented clearly and organized.
- b) Project methodology: Proponents will be evaluated on their proposed approach to optimization of the systems and their approach to confirming the needs.

- c) Value and cost: Proponents will be evaluated on the cost of their solution(s) based on the work to be performed in accordance with the scope of this project and the optimization of the potential installations.
- d) Experience: Proponents will be evaluated on their experience in similar projects.
- e) Innovation: We encourage proponents to show innovative ideas in repair and maintenance
- f) Project schedule: The submissions will be evaluated based on the proposed schedule compared to the proposed schedule outlined in the RFP and comparing the schedules of other submissions.

A copy of the proposal evaluation form is included in Appendix C.

14.0 Award Process

Within three weeks following the Proposal Due Date, the District intends to announce the selection of the Preferred Proponent. The District may negotiate with the Preferred Proponent for a Contract.

The District reserves the right to negotiate changes to the Preferred Proponent's Proposal.

If at any time the District or the Preferred Proponent reasonably forms the opinion that a mutually acceptable agreement is not likely to be reached within a reasonable time, the District or Preferred Proponent may give written notice to terminate discussions, in which event the District may then either open discussions and/or negotiations with another Proponent or Proponents, or terminate the RFP and retain or obtain the Services in some other manner. Proponents will be notified in writing if and when a Contract has been awarded.

15.0 Execution of Agreement

Upon successful conclusion of negotiations, the District will provide the Successful Proponent with an Award letter.

Within five (5) business days of the Successful Proponent's receipt of these documents, the Proponent shall return them to the District fully executed, together with any Performance Security and other guidelines set out in the contract.

The Successful Proponent shall be required to furnish at its own expense a copy of their Workers Compensation Board Clearance and proof of liability insurance in the amount of \$5,000,000.

16.0. Project Responsibilities

16.1 Responsibilities of the District

Pursuant to the Agreement's provisions, the District will monitor the construction of the Project as a knowledgeable Owner and may perform quality audits to verify the Contractor's delivery of quality, durable, and environmentally acceptable infrastructure per the Agreement.

The District will, during the execution of the Work, monitor the progress of the Work to verify that the Contractor is conforming to the Agreement. The District will review the Contractor's conformance to the Agreement, accept payment requests, issue payments, accept substantial performance of the Project and issue the Completion Certificate subject to the procedures defined in the Agreement.

For clarity, nothing in this section creates any contractual or other legal obligation on the District. The Agreement, when executed, is the sole source of any contractual or other obligation on the District with respect to the Project.

16.2 Responsibilities of the Contractor

Responsibilities of the Contractor include but are not limited to, all responsibilities required to deliver the Project in accordance with the guidelines of the RFP documents. The Contractor's responsibilities are defined in, but not limited to, the RFP and the Agreement guidelines.

The Contractor will be responsible for dealing with all agencies having jurisdiction over the Contractor and the Project, adjacent landowners, and the general public, and for resolving all issues that arise from its execution of the Work.

The Contractor will be responsible for securing all Governmental Approvals and Permits required for the Project from agencies with jurisdiction over the Project, unless noted otherwise in the Agreement.

The contractor is responsible for applying for and obtaining the required permits for the project. These include but are not limited to electrical permits, and any other permits required for the project delivery.

The Contractor is responsible for adhering to the Archaeological Chance Find Procedure if it is discovered the work area may be a possible archaeological site. Refer to the Provincial Website for further details.

<http://www.frontcounterbc.ca/pdf/ArchaeologicalChanceFindProcedure.pdf>

17.0 Project Schedule

The anticipated general schedule for the design and construction of the project is as follows:

Closing Date for Proposal Submission: March 13, 2024

Selection of Preferred Proponent: March 18, 2024

Proponent Award letters issued: March 26, 2024

Date of Substantial Completion: June 27, 2024

If possible, proponents are encouraged to improve on the Date of Substantial Completion. A schedule form is included in the proposal form.

18.0 Site Access

During the RFP stage, the proponents are encouraged to visit the site(s) to confirm any required information. The proponents must confirm the dates of any site visits with the District.

19.0 General Conditions

19.1 No District Obligation

This RFP does not commit the District in any way to select a Preferred Proponent, to proceed to discussions or negotiations for a Contract, or to award any contract, and the District reserves the complete right to at any time, reject all Proposals and, to terminate this RFP process for any reason.

19.2. Proponents Expenses

Proponents are solely responsible for their own expenses in preparing and submitting Proposals and for any meetings, negotiations or discussions with the District or its representatives and contractors relating to or arising from this RFP.

19.3. No Contract

By submitting a Proposal and participating in the process as outlined in this RFP, Proponents expressly agree that no contract of any kind is formed under or arises from this RFP before signing a formal written Contract.

19.4. Conflict of Interest

A Proponent shall disclose in its Proposal any actual or potential conflicts of interest and existing business relationships it may have with the District, its elected or appointed officials or employees. The District may rely upon such disclosure.

19.5. Solicitation of District Staff elected members.

Proponents and their agents will not contact any member of the District Council, District staff or District contractors with respect to this RFP, other than the District Representative named in Section 4, at any time prior to entering into a Contract or the cancellation of this RFP.

19.6. Disclaimers/Limitations of Liability

Neither acceptance of a Proposal nor execution of a Contract constitutes approval of any activity or development contemplated in any Proposal that requires any approval, permit or license pursuant to any federal, provincial, regional or municipal statute, regulation or bylaw. The Proponent is responsible for obtaining such approval, permit or license before commencement of the work under the anticipated Contract.

The District, its elected officials, appointed officers, employees, agents, contractors, and volunteers expressly disclaim any and all liability for representations or warranties expressed, implied or contained in, or for omissions from this RFP package or any written or oral information transmitted or made available at

any time to a Proponent by or on behalf of the District. Nothing in this RFP is intended to relieve a Proponent from forming its own opinions and conclusions regarding this RFP. The District, its elected officials, appointed officers, employees, agents, contractors and volunteers will not be liable to any Proponent for any claims, whether for costs, expenses, losses, damages, or loss of anticipated profits, or for any other matter whatsoever, incurred by a Proponent in preparing and submitting a Proposal, or participating in negotiations for a Contract, or other activity related to or arising out of this RFP. By submitting a Proposal, each Proponent shall be deemed to have agreed that it has no right to make such claims.

19.7. Confidentiality

The RFP documents, or any portion thereof and any other confidential information to which a Proponent may have access as a result of this RFP process, may not be used by a Proponent for any purpose other than submission of Proposals. By submitting a Proposal, every Proponent agrees not to divulge, release or otherwise use any information given to it or acquired by it from the District on a confidential basis as a result of or during the course of the RFP process.

19.8. Ownership of Proposals and Freedom of Information

Each Proposal submitted, as well as any other documents received from a Proponent, becomes the property of the District and, as such, subject to the Freedom of Information and Protection of Privacy Act ("FOIPPA"). FOIPPA grants a general right of access to such records but also includes grounds for refusing the disclosure of certain information.

Proponents are asked to specifically identify information contained in their Proposal that is submitted confidentially.

The District will hold in confidence any such information received from a Proponent. However, the District explicitly reserves the right to distribute information about any Proposal internally to its staff, consultants, and contractors where the District considers the distribution of that information necessary to its internal consultation process.

19.9. Time

The timing for the submission and receipt of Proposals and any amendments thereto shall be determined by reference to the District's local area network time.

19.10. Acceptance of Terms

The Proposal submission constitutes the Proponent's agreement that all the terms and conditions of this RFP are accepted by the Proponent and incorporated in its Proposal.

APPENDIX: A

Submit Qualifications and References.

Complete Bid Proposal Form

Item	Description	Total Costs
A	Remove existing PVC liner, repair concrete pool surface and install new T2000 Evolution PVC Pool Liner to surface the pool interior including installation of Poly-Extruded Matting (PEM Soft-Walk) as sub-flooring	
	Total Item A	
B	Leak detection and pressure testing for the permitter gutter, main drains, pool supply and return piping and any other penetration of the pool	
	Total Item B	
	Total A & B	

Name of Proponent: _____

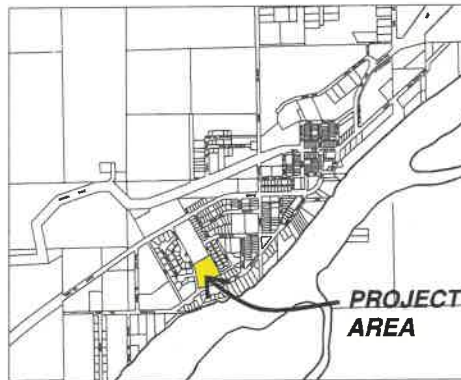
Date: _____

Signature of Authorized Officer: _____

APPENDIX: B – Supplemental Information

Swimming Pool Building Replacement Tender 2003

DISTRICT OF HUDSON'S HOPE



DRAWING LIST:

06640011-C00	COVER PAGE	
06640011-C01	EXISTING BUILDING & POOL	FOR INFORMATION ONLY
06640011-C02	FUTURE BUILDING & POOL	FOR INFORMATION ONLY
06640011-C03	3D CONCEPT PLAN	FOR INFORMATION ONLY

STRUCTURAL:

06640011-S01	STRUCTURAL GENERAL NOTES AND SPECIFICATIONS, DRAWING LIST
06640011-S02	FOUNDATION PLAN, ROOF PLAN, ROOF DRAINAGE PLAN
06640011-S03	GROUND FLOOR PLAN, WALL TYPE SCHEDULE, ROOF TYPE SCHEDULE, SPECIALTY ITEMS SCHEDULE
06640011-S04	EXTERIOR ELEVATIONS AND KEYPLAN
06640011-S05	BUILDING SECTION, WALL SECTION, SECTIONS AND DETAILS
06640011-S06	SECTIONS AND DETAILS
06640011-S07	INTERIOR ELEVATIONS, DOOR, WINDOW AND ROOM FINISH SCHEDULES
06640011-S08	STEEL STUD FRAMING AND ROOF MEMBRANE, SECTIONS AND DETAILS

MECHANICAL:

06640011-M1	GROUND FLOOR UNDERGROUND PLUMBING PLAN
06640011-M2	GROUND FLOOR ABOVE GRADE PLUMBING PLAN
06640011-M3	MECHANICAL SPECIFICATIONS AND DETAILS

ELECTRICAL:

06640011-E01	FUTURE BUILDING ELECTRICAL DETAILS
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LANDSCAPING:

06640011-L01	GENERAL LANDSCAPE PLAN
06640011-L02	GRADING AND WATERLINE DRAINAGE PLAN
06640011-L03	BACKFILL AND WEEDING TILE

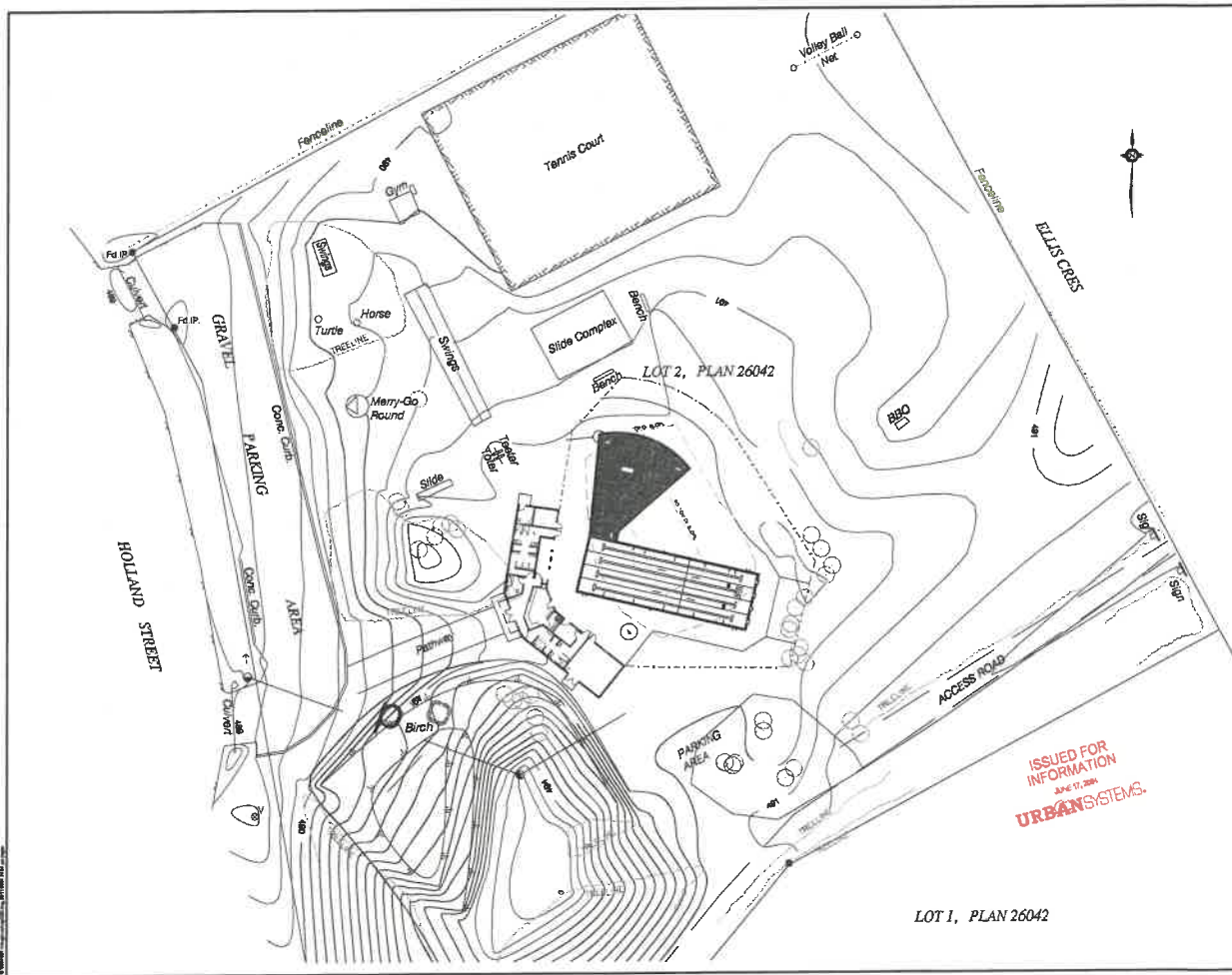
POOL:

06640011-T01	PLAN, SECTION AND DETAILS	FOR INFORMATION ONLY
06640011-T02	CONCRETE FLOOR CASTING (BY THIRD)	FOR INFORMATION ONLY
06640011-T03	BASE FRAME LAYOUT	FOR INFORMATION ONLY
06640011-T04	BUTTRESSES AND PANELS LAYOUT	FOR INFORMATION ONLY
06640011-T05	MYRTHA GUTTERS LAYOUT	FOR INFORMATION ONLY
06640011-T06	PVC LINING AND ANTISLIP POOL INSTALLATION	FOR INFORMATION ONLY

ISSUED FOR
TENDER
APRIL 17, 2003
URBANSYSTEMS.

Swimming Pool Building Replacement

URBANSYSTEMS.
APRIL, 2003
File: 0664.0011.02
DWG. 06640011-C00



ISSUES	
NO.	DESCRIPTION
1	FOR APPROVAL
2	FOR TENDER
3	FOR CONSTRUCTION
4	AS CONSTRUCTED
5	FOR ARCHIVE

REVISIONS	
NO.	DESCRIPTION

PROFESSIONAL SEAL

SCALE: 1" = 20'

URBANSYSTEMS.
DISTRICT OF HUDSON'S HOPE

SWIMMING POOL BUILDING RELOCATION

FUTURE BUILDING & POOL

PROJECT: 0664.0011.02
SHEET: 2 OF 3
DRAWN BY: [Name]
CHECKED BY: [Name]

ISSUED FOR INFORMATION
APR 17, 2008
URBANSYSTEMS.

LOT 1, PLAN 26042

LOT 2, PLAN 26042

STRUCTURAL GENERAL NOTES AND SPECIFICATIONS

DIVISION 01 - GENERAL REQUIREMENTS

- 1.1 BUILDING DESIGN AND CONSTRUCTION IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE NATIONAL BUILDING CODE OF CANADA 1985 AND BRITISH COLUMBIA BUILDING CODE 1986.
- 1.2 THE LAWS AND CODES OF THE PLACE OF BUILDING SHALL GOVERN THE CONSTRUCTION OF THIS PROJECT. WORK TO BE DONE NOTWITHSTANDING ALL APPLICABLE AND PROVISIONAL BUILDING CODES.
- 1.3 USE OF THESE DRAWINGS IS FOR THE PURPOSES SPECIFICALLY NOTED ON THE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE SCALE AND SIGNATURE OF THE PROFESSIONAL ENGINEER FROM FORCE ENGINEERING GROUP INC. AND ARE STAMPED "VALID FOR CONSTRUCTION".
- 1.4 SPECIFIED DESIGN LOADS AND PARAMETERS:
 WIND - 2.0 MPa (2.0 kN/m²) WIND SPEED: 110 km/h (68 mph) (ASCE 7-10)
 SNOW - 1.0 MPa (1.0 kN/m²) SNOW LOAD: 1.0 MPa (1.0 kN/m²) (ASCE 7-10)
 SEISMIC - 0.15g (ASCE 7-10)
- 1.5 CONSTRUCTION LOADS NOT EXCEED THE SPECIFIED DESIGN LOADS FOR THE STRUCTURAL ELEMENTS IDENTIFIED HEREIN. CONTRACTOR MUST COORDINATE WITH ENGINEER FROM FORCE ENGINEERING GROUP INC. LOADS REQUIRED FOR TEMPORARY CONDITIONS OF CONSTRUCTION.
- 1.6 CONTRACTOR TO INSPECT SITE PRIOR TO COMMENCEMENT OF WORK TO FAMILIARIZE THEMSELVES WITH EXISTING & SCOPE OF WORK. NOTIFY THE ENGINEER IMMEDIATELY AND APPROPRIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES BETWEEN THE DRAWINGS & ACTUAL SITE CONDITIONS.
- 1.7 CONTRACTOR SHALL REVIEW ALL AVAILABLE INFORMATION FOR TENDERS AND MAKE CORRECTIVE CHANGES BETWEEN ITEMS, INCLUDE THE WORK CONSERVATIVE, UNLESS OTHERWISE SPECIFIED OTHERWISE.
- 1.8 CONTRACTOR RESPONSIBILITY TO CHECK & VERIFY ALL DIMENSIONS, ERRORS AND OMISSIONS AND REPORT SAME TO ENGINEER WITH FORCE ENGINEERING GROUP INC. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, THE DIMENSIONS AND ANY DISCREPANCIES IN THE LOCATION OF WORK SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWNERS RISK. ALL WORK SHALL BE OF STANDARD QUALITY IN ALL RESPECTS TO GOOD BUILDING PRACTICE. REVISIONS TO THESE GENERAL NOTES SHALL BE APPROVED IN CONJUNCTION WITH ALL OTHER INFORMATION APPEARING IN THE DRAWINGS AND SPECIFICATIONS.
- 1.9 CONTRACTOR SHALL REVIEW ALL AVAILABLE INFORMATION FOR TENDERS AND MAKE CORRECTIVE CHANGES BETWEEN ITEMS, INCLUDE THE WORK CONSERVATIVE, UNLESS OTHERWISE SPECIFIED OTHERWISE.
- 1.10 DO NOT SCALE DIMENSIONS. WRITTEN DIMENSIONS ALWAYS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- 1.11 STRUCTURAL COMPONENTS ARE NOT TO BE MODIFIED IN ANY MANNER WITHOUT FIRST OBTAINING WRITTEN PERMISSION FROM ENGINEER WITH FORCE ENGINEERING GROUP INC. SHOP DRAWINGS SHALL BE COMPLETE AT TIME OF SUBMISSION AND SHALL BEAR THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. SHOP DRAWINGS TO BE SUBMITTED WITH A MINIMUM OF SEVEN (7) WORKING DAYS FOR REVIEW.
- 1.12 THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY WITHIN THE CONTIGUOUS OF THE WORK SITE. PROPER AND SAFE METHOD OF CONSTRUCTION SHALL BE USED AT ALL TIMES INCLUDING BRACING, CONTROLLING THE INFLUENCE OF CONSTRUCTION LOADS UPON THE STRUCTURE. NEAREST SUPPORT REQUIRED PRIOR TO THE COMPLETION OF VERTICAL AND LATERAL LOAD SYSTEMS DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 1.13 IN ACCORDANCE WITH STANDARDS OF PRACTICE, THE CONTRACTOR PROVIDES AND IS RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, SEQUENCES, LABOUR, MATERIALS, SAFETY PROCEDURES AND EQUIPMENT FOR THE LOCATION AND QUALITY OF THE WORK AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.
- 1.14 CONTRACTOR TO VERIFY LOCATION OF SANITARY, WATER, GAS AND ELECTRIC LINES OR SITE WITH AUTHORITY HAVING JURISDICTION PRIOR TO COMMENCING CONSTRUCTION.
- 1.15 STRUCTURAL DRAWINGS SHALL COVER OVER MECHANICAL AND ELECTRICAL DRAWINGS. SUBJECT TO THE FOLLOWING, IF ANY DISCREPANCIES OR OMISSIONS OCCUR WITH ANY OTHER SPECIFICATIONS OR DRAWINGS, THE MORE STRICT SHALL GOVERN.
- 1.16 CONTRACTOR TO VERIFY LOCATION OF SANITARY, WATER, GAS AND ELECTRIC LINES OR SITE WITH AUTHORITY HAVING JURISDICTION PRIOR TO COMMENCING CONSTRUCTION.
- 1.17 CONTRACTOR TO VERIFY LOCATION OF SANITARY, WATER, GAS AND ELECTRIC LINES OR SITE WITH AUTHORITY HAVING JURISDICTION PRIOR TO COMMENCING CONSTRUCTION.
- 1.18 METRIC / IMPERIAL
- 1.19 THE PROJECT HAS BEEN DESIGNED USING METRIC DIMENSIONS.
- 1.20 WHEN THE DRAWINGS AND SPECIFICATIONS BOTH METRIC AND IMPERIAL UNITS ARE USED, THE CONTRACTOR SHALL MAKE ADJUSTMENTS AND CO-ORDINATE THE DIMENSIONS OF ALL WORK ITEMS USED.
- 1.21 CARE IS REQUIRED TO BE DEVOTED TO ENSURE CO-ORDINATION OF METRIC AND IMPERIAL DIMENSIONS AND UNITS. THE CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR CO-ORDINATION OF THIS PROJECT.
- 1.22 CONTRACTOR SHALL ENSURE THAT PERSONS WORKING ON THE PROJECT KNOW THE SYSTEM OF MEASUREMENTS BEING USED AND THAT THEY USE APPROPRIATE REFERENCES AND GRADED TAPES, RULES, THERMOMETERS, ETC.
- 1.23 CONTRACTOR SHALL CO-ORDINATE THE WORK TO ENSURE THAT THESE COMPONENTS SUBMITTED TO INSPECTION AND TESTING COMPLIANCE ARE USED IN THE MANNER AND LOCATION AS SPECIFIED. CONTRACTOR SHALL BE RESPONSIBLE FOR CO-ORDINATION OF THIS PROJECT.

DIVISION 02 - SITEWORK

- 2.1 BUILDING AREA TO BE PREPARED AS INDICATED IN GEOTECHNICAL REPORT BY CLIFTON ASSOCIATES LTD. (DATE: 01/14/2010 DATE: 20 JUNE 2009)
- 2.2 EXPOSED SUBGRADE TO BE COMPACTED AND SLOPED TO DRAIN.
- 2.3 FILL MATERIAL TO BE NATURAL, UNLAYERED, COMPACTED TO 100% STANDARD PROCTOR DENSITY (ASTM D998) AND SHALL BE FREE OF OBSTACLES, ROCKS, FILL CLUMPS AND BE FREE DRAINING.
- 2.4 100MM LAYER OF CRUSHED GRAVEL BENEATH INTERIOR SLAB AND EXTERIOR APPROXS TO BE BELL-COURSED DRAINAGE. DRAINAGE TO BE FREE DRAINING.
- 2.5 GRAVELLIER MATERIALS TO BE NATIVE SOIL OR SOFT SANDWICHED. ALL SANDWICHED MATERIALS PLACED WITHIN 100MM OF THE FOUNDATION WALLS SHALL BE FREE OF OBSTACLES, ROCKS, FILL CLUMPS AND BE FREE DRAINING.
- 2.6 FILL BEHIND FOR ALL FOUNDATION ELEMENTS ARE TO BE COMPLETED BY THE MATERIAL TESTING CONSULTANT.

DIVISION 03 - CONCRETE

3.1 CONCRETE TO BE IN ACCORDANCE WITH LATEST EDITION OF CAN3-A23.1 AND CAN3-A23.2 FOR MATERIALS AND METHODS OF CONSTRUCTION.

3.2 CONCRETE TYPE, STRENGTH, AGGREGATE, SLUMP, W/C RATIO, ENTRAINED AIR AS FOLLOWS:

LOCATION / USE	CONC. TYPE	28 DAY COMPRESSIVE STRENGTH (MPa)	MAXIMUM SLUMP (mm)	W/C RATIO	ENTRAINED AIR (%)
FOOTINGS	50	32 MPa	0.45	25mm	1.5-2.0
STRUCTURAL SLABS & CURBS	50	32 MPa	0.45	18mm	1.5-2.0
EXTERIOR APPROXS	50	32 MPa	0.45	18mm	1.5-2.0
EXTERIOR SIDEWALKS	50	32 MPa	0.45	12.5mm	1.5-2.0

3.3 CONCRETE COVER TO CONFORM TO LATEST EDITION OF CAN3-A23.1 AND AS FOLLOWS:

LOCATION	BAR SIZE	COVER (mm)
EAST ADJACENT EXTERIOR	ALL	75mm
SLABS - EXPOSED TO EARTH OR WEATHER	10M - 15M	30mm
SLABS - EXPOSED TO EARTH OR WEATHER	20M - 35M	50mm
SLABS NOT EXPOSED TO EARTH OR WEATHER	ALL	30mm
SLABS - EXPOSED TO EARTH OR WEATHER	ALL	30mm

3.4 INTERIOR CONCRETE SLAB SURFACES TO BE TREATED WITH SEALER APPLIED IN ACCORDANCE WITH MANUFACTURE SPECIFICATIONS. EXTERIOR CONCRETE SLABS AND STEPS SURFACES TO BE TREATED WITH SEALER APPLIED IN ACCORDANCE WITH MANUFACTURE SPECIFICATIONS.

3.5 PROVIDE HASTING REINFORCING BARS WITH 20mm DIA. (OR AT LOCATIONS AS INDICATED ON THE DRAWINGS) WITHIN 24 HOURS. SLAB AT COLUMN SHALL BE SMOOTH IN ROOMS + 600mm DIAMOND PATTERN FINISH UP WITH DREL. ADJACENT FLOOR SHALL BE SMOOTH.

3.6 GROUT FOR BASE PLATES, ANCHOR BOLTS ETC. TO BE NON-SHRINK COMPOUND WITH A TWO (2) DAY COMPRESSIVE STRENGTH OF 30 MPa.

3.7 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY FORMWORK TO PROVIDE CLEAR TOLERANCES REQUIRED BY OTHER BUILDING COMPONENTS.

3.8 REINFORCING STEEL

3.8.1 REINFORCING STEEL TO BE IN ACCORDANCE WITH LATEST EDITION OF CSA G40.21 WITH GRADE 400 MPa YIELDING STRENGTH.

3.8.2 REINFORCING STEEL TO BE IN ACCORDANCE WITH LATEST EDITION OF CSA G40.21 WITH 305 MPa YIELD STRENGTH.

3.8.3 ALL REINFORCING TO BE DETAIL IN ACCORDANCE WITH THE LATEST EDITION OF THE CANADIAN MANUAL, UNLESS OTHERWISE SPECIFIED.

3.8.4 PLACING OF REINFORCEMENT AND ALL CUTTING, LAPPING AND BENDING DETAILS TO BE IN ACCORDANCE WITH THE LATEST EDITION OF CAN3-A23.1.

3.8.5 REINFORCEMENT MUST BE CLEAN AND FREE FROM ANY SUBSTANCE WHICH MAY WEAKEN CONCRETE BOND. ANY OBTUSIONABLE MATERIAL TO BE CLEANED OR REINFORCEMENT REPLACED TO THE SATISFACTION OF ENGINEER FROM FORCE ENGINEERING GROUP INC. AT THE CONTRACTOR'S EXPENSE.

3.8.6 MINIMUM LAPS OF REINFORCEMENT MUST OVERLAP TO BE AS FOLLOWS:

CLASS	BAR SIZE	
CLASS 'C'	10M	150mm
	15M	200mm
CLASS 'D'	20M	250mm
	25M	300mm
CLASS 'E'	30M	350mm
	35M	400mm

3.8.7 ALL REINFORCEMENT TO BE CONTINUOUS AND LAPPED AT CORNERS. CORNER BARS TO MATCH SPECIFIED REINFORCEMENT AND BE LAPPED AS NOTED ABOVE.

3.8.8 ALL REINFORCING TO BE HELD IN PLACE AND TIED BY THE USE OF PROPER ACCESSORIES SUCH AS CHAIRS, SPACERS, ETC. TO BE SUPPLIED BY REINFORCING STEEL FABRICATOR. RE-BARS TO HAVE 4 LEGS AND TO BE STAPLED OR WELDED TO THE FORMWORK.

3.8.9 INSTALLATION OF REINFORCING STEEL TO BE HOSE CLEANED PRIOR TO REVIEW OF SAME. CONCRETE PLACEMENT NOT TO COMMENCE UNTIL ENGINEER APPROVAL. ENGINEER INSPECTIONS REQUIRED DUE TO COMPLEX WORK OR OBSTRUCTIONS BY THE CONTRACTOR. SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

3.9 MATERIAL TESTING

3.9.1 THE MATERIAL CONSULTANT SHALL PROVIDE GENERAL CONSULTING FIELD REVIEWS AND TESTING OF MATERIALS FOR THIS PROJECT.

3.9.2 THE MATERIAL CONSULTANT SHALL SUPERVISE THE CONCRETE WORK OF THE PROJECT INCLUDING TESTING OF MATERIALS AND CONCRETE DELIVERED TO THE SITE. REVIEW OF THE CONCRETE PLACING PROCEDURES AND BLOCK OTHER WORK AS OTHERS NECESSARY TO ENSURE THAT THE CONCRETE IN THE COMPLETED STRUCTURE CONFORMS WITH THE INTENT OF THE DESIGN.

3.9.3 UPON COMPLETION OF THE CONCRETE WORK, THE MATERIAL CONSULTANT SHALL SUBMIT TO THE ENGINEER AND THE OWNER LETTERS OF ASSURANCE, SIGNED AND SEALED BY THE CONSULTANT, INDICATING THAT ALL CONCRETE IN THE BUILDING AND OTHER WORK REVIEWED BY THE MATERIAL CONSULTANT, CONFORMS WITH THE DRAWINGS AND SPECIFICATIONS.

3.9.4 CONCRETE TEST CYLINDERS TO BE TAKEN IN ACCORDANCE WITH CAN3-A23.1.

3.9.5 SPECIAL CONSTRUCTION PROCEDURES FOR CONCRETE WORK PERFORMED DURING ADVERSE WEATHER CONDITIONS SHALL BE APPROVED BY THE MATERIAL CONSULTANT PRIOR TO COMMENCEMENT OF THE WORK.

3.9.6 THE GENERAL CONTRACTOR SHALL SUPERVISE AND BE RESPONSIBLE FOR PLACEMENT PROCEDURES DURING CONSTRUCTION. ENSURE THAT THE CONCRETE PLACEMENT DOES NOT OBSCURE THE REINFORCEMENT FROM THE DESIRED POSITION. DOUBLE CHECK REINFORCEMENT IS PROPERLY CONSOLIDATED IN ALL AREAS.

3.9.7 THE MATERIAL TESTING CONSULTANT WILL BE DESIGNATED BY THE OWNER FOR THE PURPOSE OF INSPECTING AND/OR TESTING PORTIONS OF WORK. COST OF SUCH SERVICES WILL BE PAID BY THE OWNER. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE MATERIAL TESTING CONSULTANT.

3.9.8 THE GENERAL CONTRACTOR SHALL GIVE THEM NOTICE TO THE MATERIAL TESTING CONSULTANT IN ADVANCE OF THE REQUIREMENTS FOR TESTS, IN ORDER THAT APPROPRIATE ARRANGEMENTS CAN BE MADE.

3.9.9 IF DEFECTS ARE REVEALED DURING INSPECTION AND/OR TESTING, THE MATERIAL TESTING CONSULTANT WILL REQUEST ADDITIONAL INSPECTION AND/OR TESTING TO ASCERTAIN FULL DEGREE OF DEFECT. THE GENERAL CONTRACTOR SHALL CORRECT DEFECTS & IRREGULARITIES AS ADVISED BY MATERIAL TESTING CONSULTANT AT NO COST TO THE OWNER. THE GENERAL CONTRACTOR SHALL PAY COSTS FOR RE-TESTING AND RE-INSTALLATION.

DIVISION 04 - METALS

4.1 STRUCTURAL STEEL

4.1.1 STRUCTURAL STEEL TO CONFORM TO CAN3-A40.21 AND CAN3-A40.20.

4.1.2 ROLLED OR STEEL STRUCTURAL SECTIONS AND PLATES SHALL BE TO CAN3-A40.21-416, GENERAL-STEEL, HOLLOW STRUCTURAL SECTIONS TO BE 300M CLASS C.

4.1.3 GENERAL MANUFACTURING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE PERFORMED IN ACCORDANCE WITH CAN3-A40.21.

4.1.4 MEMBER SHALL CONFORM TO THE LATEST EDITION OF CSA-W46. FABRICATORS SHALL BE PROPERLY CERTIFIED IN ACCORDANCE WITH CSA-W46.

4.1.5 ALL STRUCTURAL STEEL IS TO RECEIVE ONE COAT OF ZINC ALUMINA 2-75 SHOP PRIMER FOR STEEL MEMBERS EXPOSED TO THE WEATHER ONE COAT OF MUST PREVENTIVE PAINT SHALL BE APPLIED.

4.1.6 FABRICATOR TO NOTIFY ENGINEER PRIOR TO FABRICATION OF ANY PROPOSED MEMBER SUBSTITUTION AND CHANGED CONNECTION DETAIL.

4.1.7 STRUCTURAL STEEL MEMBER SHALL BE RESPONSIBLE FOR ALL WELDS IN STEEL SECTIONS REQUIRED BY OTHER TRADES. SECTIONS SHALL BE STRENGTHENED WHERE REQUIRED TO CHARACTERIZE THE ORIGINAL STRENGTH OF THE MEMBER. ANY CUTTING OF STEEL AT THE JOB SITE SHALL BE DONE ONLY AS DIRECTED BY AND APPROVED BY THE ENGINEER.

4.1.8 STRUCTURAL STEEL SUPPLIER SHALL BE RESPONSIBLE FOR SUPPLYING & DIRECTING ALL TIGHTENING AND BRACING TO PROVIDE STABILITY FOR THE STEEL LINE AS A MEMBER IN PLACE.

4.1.9 ALL PLATES LARGER THAN 400 x 400mm THINNESS STEEL DECK TO BE FRAMED WITH MINIMUM 1/2" x 7mm x 7mm x 6.25mm ANGLES ALL AROUND, UNLESS OTHERWISE SPECIFIED. SMALLER ANGLES THROUGH STEEL DECK TO BE SUPPORTED BY STEEL DECK SUPPLIER. WIDE DECK DECK REQUIRES 1/2" FRAMING DIRECTOR, USE 1/2" x 6.25mm x 6.25mm x 6.25mm.

4.1.10 STRUCTURAL STEEL SUPPLIER TO SUBMIT ENGINEERING DRAWINGS BEARING THE SEAL OF A REGISTERED ENGINEER GOVERNING THE SOURCE CONNECTIONS, TO THE PROJECT ENGINEER FOR REVIEW PRIOR TO FABRICATION.

4.2 JOIST JOIST

4.2.1 JOIST FABRICATOR TO CONSULT THE LATEST EDITION OF THE SUPPLEMENTS TO THE NATIONAL BUILDING CODE OF CANADA ON NON-SHRINKING JOIST LISTS.

4.2.2 JOIST ARE TO BE CHECKED FOR THE DESIGNER OF FULL DEAD LOAD COLLECTION OR THE GENERAL CONTRACTOR AS SPECIFIED IN CSA S16.

4.2.3 ALL JOISTS BRACING TO CONFORM WITH THE LATEST BUILDING CODE REQUIREMENTS, UNLESS OTHERWISE SPECIFIED.

4.2.4 JOIST BRACING ON BEAMS TO REST ON THE MIDDLE THIRD OF THE SPAN. JOISTS IN LANE TO BEAR END TO END ON THE SUPPORTING BEAMS WITH A MINIMUM GAP OF 12.5mm. ALL JOIST JOISTS TO BE 100% UNLESS NOTED OTHERWISE.

4.2.5 JOIST SUPPLIER TO REFER TO MECHANICAL DRAWINGS FOR LOCATION AND HEIGHTS OF EQUIPMENT SUPPORTED BY JOISTS. JOISTS TO HAVE MINIMUM MEMBERS IN LINE WELDED TO MECHANICAL DECK.

4.2.6 ALL JOIST JOISTS TO RECEIVE ONE COAT OF SHOP PRIMER CSX-200-2-75.

4.2.7 JOIST SUPPLIER TO SUBMIT ENGINEERING DRAWINGS BEARING THE SEAL OF A REGISTERED ENGINEER (REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA) TO THE ENGINEER WITH FORCE ENGINEERING GROUP INC. FOR REVIEW PRIOR TO FABRICATION.

4.2.8 JOIST WHICH ARE RESISTANCE WELDED SHALL CONFORM TO CSA W46.2 AND CSA W46.3.

4.2.9 ALL COLLARS TO BE STRUCTURED BY JOISTS OR BEAMS, WHERE JOISTS DO NOT LINE UP WITH COLLARS USE 1/2" x 7mm x 7mm x 6.25mm WELDED TO BOTTOM OF BEAM FLANGE TO ADJUST JOIST TOP CHORD AT PANEL POINTS.

4.2.10 ALL JOIST JOISTS WITH WELDS ARE TO BE STRICT JOIST, DESIGNED TO RESIST END MOMENTS AS INDICATED ON THE DRAWINGS.

4.2.11 LIVE LOAD DEFLECTION CRITERIA SHALL BE IN ACCORDANCE WITH LATEST EDITION OF CAN3-A23.1.

4.2.12 CONTRACTOR SHALL REVIEW ALL EQUIPMENT LOADS TO BE SUPPORTED BY JOISTS WITH BROWN IN DRAWINGS.

4.2.13 MINIMUM EIGHT WORK OF 100mm CHORD SURFACE WHERE WELDING CONTACT IS TO BE MADE SHALL BE 30mm.

4.3 STEEL DECK

4.3.1 DESIGN, FABRICATION AND ERECTION TO BE IN ACCORDANCE WITH LATEST EDITION OF CAN3-A23.1.

4.3.2 ROOF DECK TO COMPLY WITH LATEST EDITION OF OSBE 36.38-76.

4.3.3 ROOF DECK SHALL BE 30mm DEEP PROFILE OR 75mm DEEP PROFILE AS INDICATED; 0.30mm THICK WITH SPACING OF 100mm.

4.3.4 ROOF DECK SHALL BE MINIMUM GRADE "A" WITH A MINIMUM WEAR COAT 2MG COATING TO 2075 (A25).

4.3.5 DECK TO BE CONNECTED TO SUPPORTS WITH 18mm DIA. WELD SPOT WELDING EXCEEDING 400mm DIA. JOISTS TO BE MECHANICALLY FASTENED AT INTERVALS NOT EXCEEDING 300mm DIA.

4.3.6 ALL BURNED OR ABRADED AREAS TO BE PRIMED WITH 2MG BODY PAINT.

4.3.7 DECK SUPPLIER SHALL REINFORCE OPENING OVER 150mm TO 300mm ACROSS THE FLUTES WITH MINIMUM 1/2" x 7mm x 7mm x 6.25mm LATCH EDGE OF OPENING PERPENDICULAR TO FLUTES. ANGLE SHALL BE HELD TO AT LEAST TWO FLUTES IN EACH SIDE OF OPENING.

4.3.8 DECK SUPPLIER SHALL REINFORCE OPENING OVER 300mm TO 400mm ACROSS FLUTES WITH MINIMUM 1/2" x 7mm x 7mm x 6.25mm LATCH EDGE OF OPENING PERPENDICULAR TO FLUTES.

4.3.9 CONTRACTOR TO VERIFY LOCATION OF SANITARY, WATER, GAS AND ELECTRIC LINES OR SITE WITH AUTHORITY HAVING JURISDICTION PRIOR TO COMMENCING CONSTRUCTION.

4.3.10 CONTRACTOR TO VERIFY LOCATION OF SANITARY, WATER, GAS AND ELECTRIC LINES OR SITE WITH AUTHORITY HAVING JURISDICTION PRIOR TO COMMENCING CONSTRUCTION.

4.3.11 INSTALLATION AND MATERIALS FOR ALL ROOF ASSEMBLIES TO COMPLY WITH ROOFING CURRENT STANDARDS AND PRACTICES NECESSARY TO OBTAIN A 10 YEAR WARRANTY.

4.3.12 ROOF ASSEMBLY INSTALLATION TO BE CONFIRMED BY INDEPENDENT ROOFING CERTIFIED INSPECTOR.

4.3.13 INSPECTOR TO SUBMIT ONE COPY OF INSPECTION REPORT TO FORCE ENGINEERING GROUP INC.

4.3.14 CONTRACTOR TO PAY COST OF INSPECTION BY ROOFING CERTIFIED INSPECTOR.

4.3.15 CONTRACTOR TO PROVIDE ROOFING (5) YEAR WARRANTY.

DIVISION 05 - MECHANICAL AND MOISTURE PROTECTION

5.1 MECHANICAL AND MOISTURE PROTECTION

5.1.1 BUILDING AREA TO BE PREPARED AS INDICATED IN GEOTECHNICAL REPORT BY CLIFTON ASSOCIATES LTD. (DATE: 01/14/2010 DATE: 20 JUNE 2009)

5.1.2 EXPOSED SUBGRADE TO BE COMPACTED AND SLOPED TO DRAIN.

5.1.3 FILL MATERIAL TO BE NATURAL, UNLAYERED, COMPACTED TO 100% STANDARD PROCTOR DENSITY (ASTM D998) AND SHALL BE FREE OF OBSTACLES, ROCKS, FILL CLUMPS AND BE FREE DRAINING.

5.1.4 100MM LAYER OF CRUSHED GRAVEL BENEATH INTERIOR SLAB AND EXTERIOR APPROXS TO BE BELL-COURSED DRAINAGE. DRAINAGE TO BE FREE DRAINING.

5.1.5 GRAVELLIER MATERIALS TO BE NATIVE SOIL OR SOFT SANDWICHED. ALL SANDWICHED MATERIALS PLACED WITHIN 100MM OF THE FOUNDATION WALLS SHALL BE FREE OF OBSTACLES, ROCKS, FILL CLUMPS AND BE FREE DRAINING.

5.1.6 FILL BEHIND FOR ALL FOUNDATION ELEMENTS ARE TO BE COMPLETED BY THE MATERIAL TESTING CONSULTANT.

5.1.7 CONTRACTOR SHALL VERIFY LOCATION OF SANITARY, WATER, GAS AND ELECTRIC LINES OR SITE WITH AUTHORITY HAVING JURISDICTION PRIOR TO COMMENCING CONSTRUCTION.

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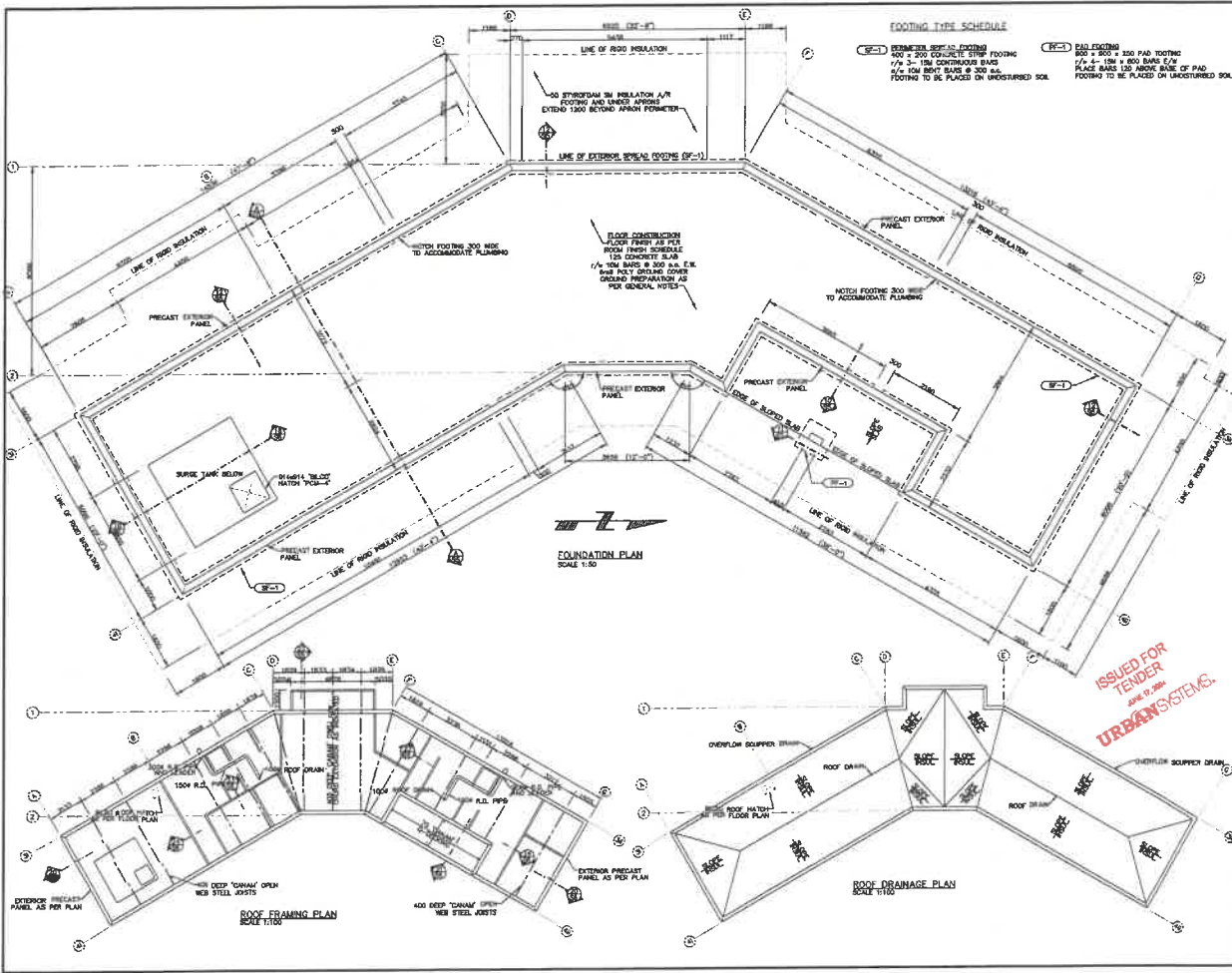
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5.1.44 CONTRACTOR SHALL VERIFY LOCATION OF SANITARY



FOOTING TYPE SCHEDULE

(SFC-1)	PERIMETER BRICK-AS-EXTENDING	(SFC-2)	PAV. FOOTING
	300 x 300 POLYSTYRENE TYPE FOOTING		300 x 300 x 230 PAD FOOTING
	1/4" 3-19# CONTINUOUS BARS		1/4" 4-19# x 300 BARS E/W
	1/4" 10# BENT BARS @ 300 c/c		PLACE BARS 150 ABOVE BASE OF PAD
	FOOTING TO BE PLACED ON UNDISTURBED SOIL		FOOTING TO BE PLACED ON UNDISTURBED SOIL

ISSUES

NO.	DESCRIPTION	DATE
1	FOR APPROVAL	11/11/20
2	FOR TENDER	06/07/20
3	FOR CONSTRUCTION	
4	AS CONSTRUCTED	
5	FOR ARCHIVE	

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1001 - 20th Ave. Unit 801, Wm. B.C.
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(FORCE'S PROJECT # 2533)

REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	06/07/20

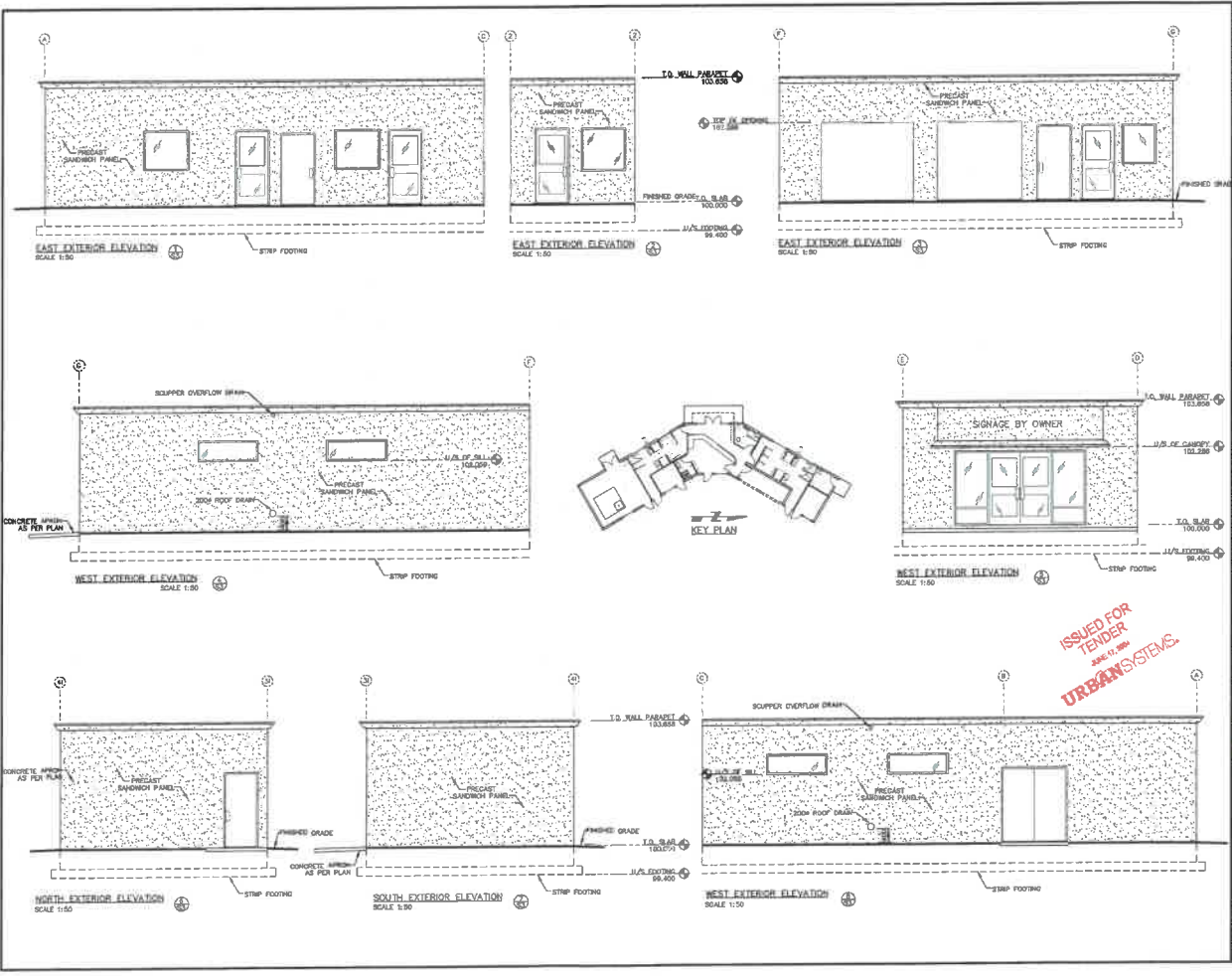
URBANSYSTEMS
DISTRICT OF HUDSON'S HOPE

SWIMMING POOL BUILDING RELOCATION

FOUNDATION PLAN
ROOF PLAN
ROOF DRAINAGE PLAN

PROJECT NO: 0884.0011.02
SHEET 2 OF 8
DRAWN BY: DBE40011-S02 A

ISSUED FOR TENDER
06/07/20
URBANSYSTEMS



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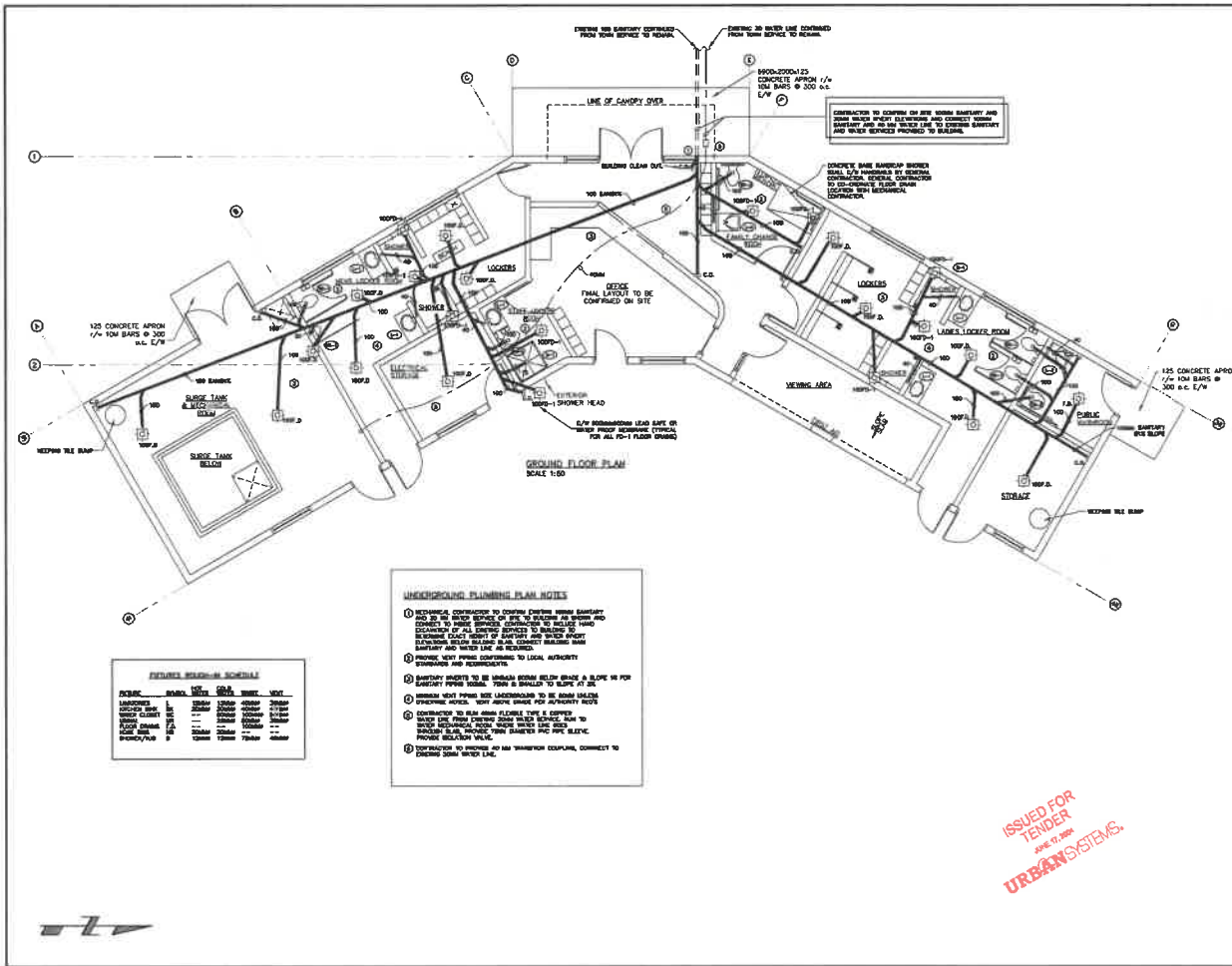
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 CONSULTING ENGINEERS
 1074 - 87th Ave. Unit 501, Burnaby, B.C.
 TEL: 604-293-1915 FAX: 604-293-1774
 (FORCE'S PROJECT # 25543)

REV.	DESCRIPTION	DATE
1		
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ISSUED FOR TENDER
 DATE: 11/08/20
URBANSYSTEMS

URBANSYSTEMS
 DISTRICT OF HUDSON'S HOPE
 SWIMMING POOL BUILDING RELOCATION
 EXTERIOR ELEVATIONS AND KEY PLAN
 PROJECT NO. 0664.0011.02
 SHEET 4 OF 8
 DRAWING NO. 06640011-S04



REVISED	
NO.	DESCRIPTION
1	FOR APPROVAL
2	FOR TENDER
3	FOR CONSTRUCTION
4	AS CONSTRUCTED
5	FOR ARCHIVE

TWS
ENGINEERING CONSULTANTS

FORCE
CONSULTING ENGINEERS

10114 - 87th Ave, Fort St. John, B.C.
TEL: (250) 743-1851 FAX: (250) 743-1852
(FORCE'S PROJECT # 2533)

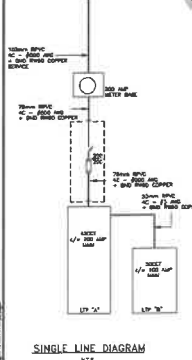
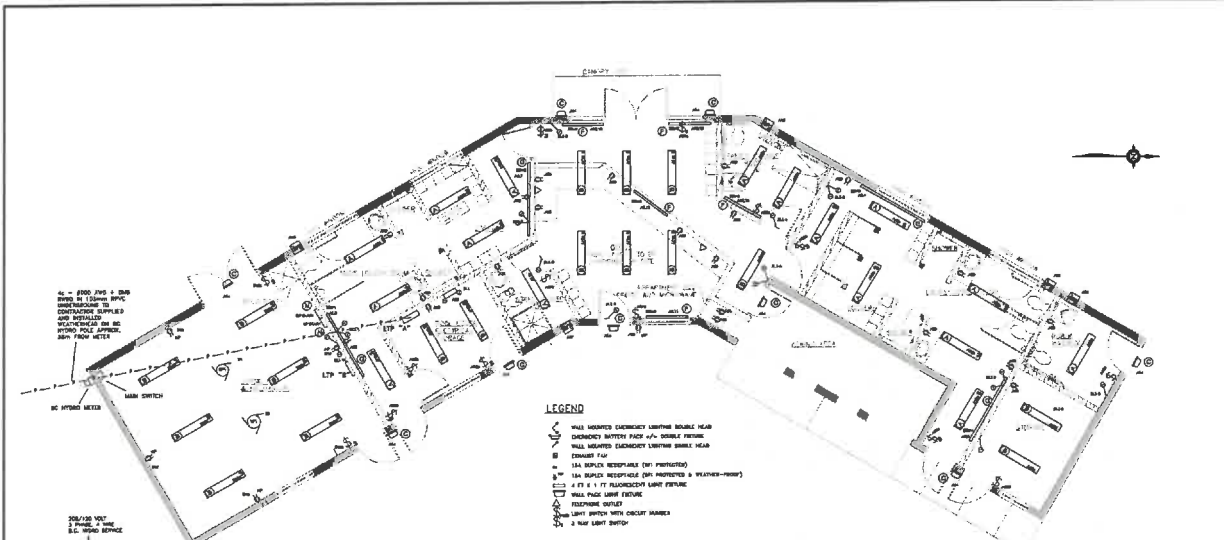
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ALL THE SCALE
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URBANSYSTEMS
DISTRICT OF HUDSON'S HOPE
SWIMMING POOL BUILDING RELOCATION
GROUND FLOOR UNDERGROUND PLUMBING PLAN

PROJECT NO. 0664.0011.02/03-0692-080
SHEET 1 OF 3
06640011-M1

ISSUED FOR TENDER
JUNE 17, 2018
URBANSYSTEMS

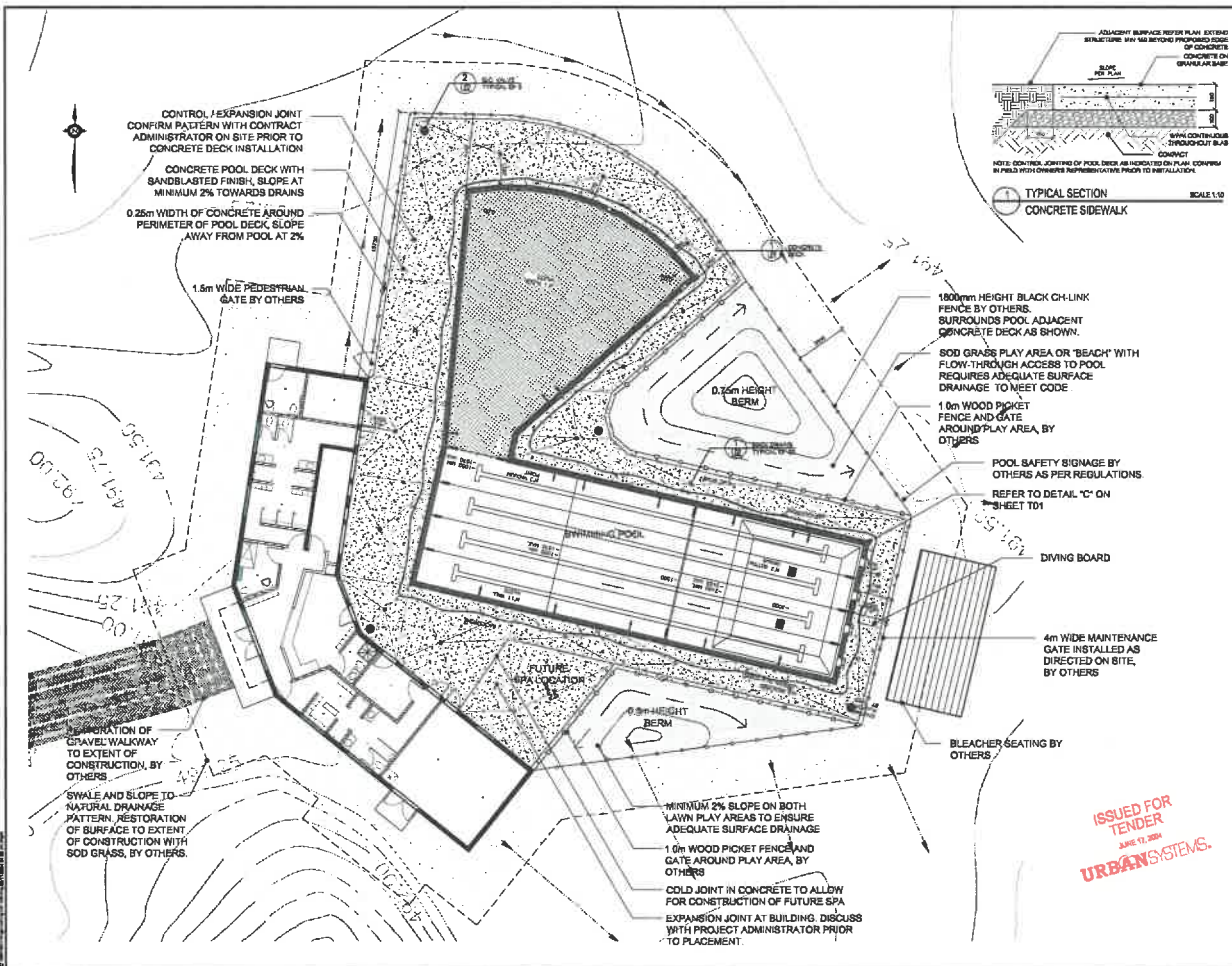


LEGEND

- WALL MOUNTED EXCESSIVE CURRENT BREAKER HEAD
- EXCESSIVE CURRENT BREAKER WITH THERMAL PROTECT
- WALL MOUNTED EXCESSIVE CURRENT BREAKER HEAD
- EXCESSIVE FUSE
- 1/4" SPACER RECEIVABLE (BY PROTECTED)
- 1/4" SPACER RECEIVABLE (BY PROTECTED & WEATHER-PROOF)
- 1" x 1" x 1" FLOOR/CEILING LIGHT FIXTURE
- WALL PLUG LIGHT FIXTURE
- FLUORESCENT LIGHT FIXTURE
- WALL MOUNTED RECEPTACLE
- 3" DIA. LIGHT OUTLET

PANEL 4
120/208V VOLTS, 3 PHASE, 4 WIRE 300 AMP MAIN BREAKER

DESCRIPTION	SIZE	PHASE A LOAD	PHASE B LOAD	PHASE C LOAD	DESCRIPTION	SIZE	PHASE A LOAD	PHASE B LOAD	PHASE C LOAD
1. BACKUPWARE HEATER #1	15	2000	2000	2000	15. BACKUPWARE HEATER #2	15	2000	2000	2000
2. 1/4" SPACER	15				16. 1/4" SPACER	15			
3. 1/4" SPACER	15				17. 1/4" SPACER	15			
4. 1/4" SPACER	15				18. 1/4" SPACER	15			
5. 1/4" SPACER	15				19. 1/4" SPACER	15			
6. 1/4" SPACER	15				20. 1/4" SPACER	15			
7. 1/4" SPACER	15				21. 1/4" SPACER	15			
8. 1/4" SPACER	15				22. 1/4" SPACER	15			
9. 1/4" SPACER	15				23. 1/4" SPACER	15			
10. 1/4" SPACER	15				24. 1/4" SPACER	15			
11. 1/4" SPACER	15				25. 1/4" SPACER	15			
12. 1/4" SPACER	15				26. 1/4" SPACER	15			
13. 1/4" SPACER	15				27. 1/4" SPACER	15			
14. 1/4" SPACER	15				28. 1/4" SPACER	15			
15. 1/4" SPACER	15				29. 1/4" SPACER	15			
16. 1/4" SPACER	15				30. 1/4" SPACER	15			
17. 1/4" SPACER	15				31. 1/4" SPACER	15			
18. 1/4" SPACER	15				32. 1/4" SPACER	15			
19. 1/4" SPACER	15				33. 1/4" SPACER	15			
20. 1/4" SPACER	15				34. 1/4" SPACER	15			
21. 1/4" SPACER	15				35. 1/4" SPACER	15			
22. 1/4" SPACER	15				36. 1/4" SPACER	15			
23. 1/4" SPACER	15				37. 1/4" SPACER	15			
24. 1/4" SPACER	15				38. 1/4" SPACER	15			
25. 1/4" SPACER	15				39. 1/4" SPACER	15			
26. 1/4" SPACER	15				40. 1/4" SPACER	15			
27. 1/4" SPACER	15				41. 1/4" SPACER	15			
28. 1/4" SPACER	15				42. 1/4" SPACER	15			
29. 1/4" SPACER	15				43. 1/4" SPACER	15			
30. 1/4" SPACER	15				44. 1/4" SPACER	15			
31. 1/4" SPACER	15				45. 1/4" SPACER	15			
32. 1/4" SPACER	15				46. 1/4" SPACER	15			
33. 1/4" SPACER	15				47. 1/4" SPACER	15			
34. 1/4" SPACER	15				48. 1/4" SPACER	15			
35. 1/4" SPACER	15				49. 1/4" SPACER	15			
36. 1/4" SPACER	15				50. 1/4" SPACER	15			
37. 1/4" SPACER	15				51. 1/4" SPACER	15			
38. 1/4" SPACER	15				52. 1/4" SPACER	15			
39. 1/4" SPACER	15				53. 1/4" SPACER	15			
40. 1/4" SPACER	15				54. 1/4" SPACER	15			
41. 1/4" SPACER	15				55. 1/4" SPACER	15			
42. 1/4" SPACER	15				56. 1/4" SPACER	15			
43. 1/4" SPACER	15				57. 1/4" SPACER	15			
44. 1/4" SPACER	15				58. 1/4" SPACER	15			
45. 1/4" SPACER	15				59. 1/4" SPACER	15			
46. 1/4" SPACER	15				60. 1/4" SPACER	15			
47. 1/4" SPACER	15				61. 1/4" SPACER	15			
48. 1/4" SPACER	15				62. 1/4" SPACER	15			
49. 1/4" SPACER	15				63. 1/4" SPACER	15			
50. 1/4" SPACER	15				64. 1/4" SPACER	15			
51. 1/4" SPACER	15				65. 1/4" SPACER	15			
52. 1/4" SPACER	15				66. 1/4" SPACER	15			
53. 1/4" SPACER	15				67. 1/4" SPACER	15			
54. 1/4" SPACER	15				68. 1/4" SPACER	15			
55. 1/4" SPACER	15				69. 1/4" SPACER	15			
56. 1/4" SPACER	15				70. 1/4" SPACER	15			
57. 1/4" SPACER	15				71. 1/4" SPACER	15			
58. 1/4" SPACER	15				72. 1/4" SPACER	15			
59. 1/4" SPACER	15				73. 1/4" SPACER	15			
60. 1/4" SPACER	15				74. 1/4" SPACER	15			
61. 1/4" SPACER	15				75. 1/4" SPACER	15			
62. 1/4" SPACER	15				76. 1/4" SPACER	15			
63. 1/4" SPACER	15				77. 1/4" SPACER	15			
64. 1/4" SPACER	15				78. 1/4" SPACER	15			
65. 1/4" SPACER	15				79. 1/4" SPACER	15			
66. 1/4" SPACER	15				80. 1/4" SPACER	15			
67. 1/4" SPACER	15				81. 1/4" SPACER	15			
68. 1/4" SPACER	15				82. 1/4" SPACER	15			
69. 1/4" SPACER	15				83. 1/4" SPACER	15			
70. 1/4" SPACER	15				84. 1/4" SPACER	15			
71. 1/4" SPACER	15				85. 1/4" SPACER	15			
72. 1/4" SPACER	15				86. 1/4" SPACER	15			
73. 1/4" SPACER	15				87. 1/4" SPACER	15			
74. 1/4" SPACER	15				88. 1/4" SPACER	15			
75. 1/4" SPACER	15				89. 1/4" SPACER	15			
76. 1/4" SPACER	15				90. 1/4" SPACER	15			
77. 1/4" SPACER	15				91. 1/4" SPACER	15			
78. 1/4" SPACER	15				92. 1/4" SPACER	15			
79. 1/4" SPACER	15				93. 1/4" SPACER	15			
80. 1/4" SPACER	15				94. 1/4" SPACER	15			
81. 1/4" SPACER	15				95. 1/4" SPACER	15			
82. 1/4" SPACER	15				96. 1/4" SPACER	15			
83. 1/4" SPACER	15				97. 1/4" SPACER	15			
84. 1/4" SPACER	15				98. 1/4" SPACER	15			
85. 1/4" SPACER	15				99. 1/4" SPACER	15			
86. 1/4" SPACER	15				100. 1/4" SPACER	15			
87. 1/4" SPACER	15				101. 1/4" SPACER	15			
88. 1/4" SPACER	15				102. 1/4" SPACER	15			
89. 1/4" SPACER	15				103. 1/4" SPACER	15			
90. 1/4" SPACER	15				104. 1/4" SPACER	15			
91. 1/4" SPACER	15				105. 1/4" SPACER	15			
92. 1/4" SPACER	15				106. 1/4" SPACER	15			
93. 1/4" SPACER	15				107. 1/4" SPACER	15			
94. 1/4" SPACER	15				108. 1/4" SPACER	15			
95. 1/4" SPACER	15				109. 1/4" SPACER	15			
96. 1/4" SPACER	15				110. 1/4" SPACER	15			
97. 1/4" SPACER	15				111. 1/4" SPACER	15			
98. 1/4" SPACER	15				112. 1/4" SPACER	15			
99. 1/4" SPACER	15				113. 1/4" SPACER	15			
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101. 1/4" SPACER	15				115. 1/4" SPACER	15			
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103. 1/4" SPACER	15				117. 1/4" SPACER	15			
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107. 1/4" SPACER	15				121. 1/4" SPACER	15			
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130. 1/4" SPACER	15				144. 1/4" SPACER	15			
131. 1/4" SPACER	15				145. 1/4" SPACER	15			
132. 1/4" SPACER	15				146. 1/4" SPACER	15			
133. 1/4" SPACER	15				147. 1/4" SPACER	15			
134. 1/4" SPACER	15				148. 1/4" SPACER	15			
135. 1/4" SPACER	15				149. 1/4" SPACER	15			
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ISSUES	
NO.	DESCRIPTION
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2	FOR TENDER
3	FOR CONSTRUCTION
4	AS CONSTRUCTED
5	FOR ARCHIVE

NOTES:

REFER TO MAND FOR SPECIFICATIONS

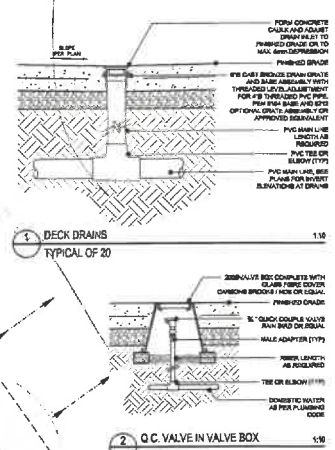
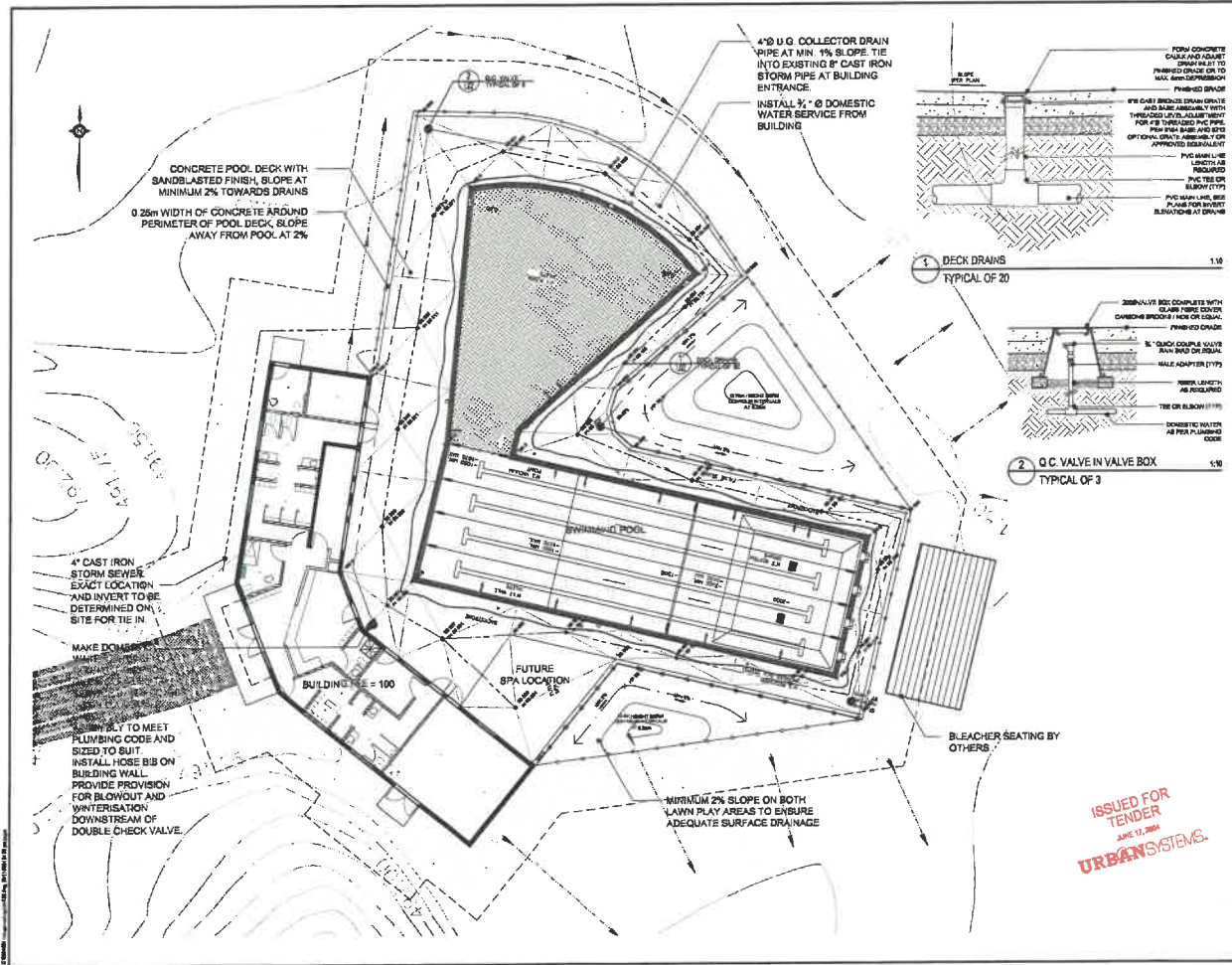
AVERAGE COLLECTION AREA FOR EACH DRAIN = 2000. MAXIMUM ALLOWABLE COLLECTION PER PUBLIC HEALTH BY-LAW = 5000. MAXIMUM ALLOWABLE SPACING BETWEEN DRAINS PER BC HEALTH STANDARD = APPROX. 1700.

NO.	REVISIONS	DATE
1	ES	
2	CL/SM/SL	
3	APR 2003	
4	ES	

ISSUED FOR TENDER
JUNE 17, 2004
URBANSYSTEMS.

URBANSYSTEMS.
DISTRICT OF HUDSON'S HOPE
SWIMMING POOL BUILDING RELOCATION
GENERAL LANDSCAPE PLAN

PROJECT NO. 0664.0011.02
SHEET 1 OF 3
DRAWING NO. 06640011-L01



ISSUES	
NO.	DESCRIPTION
1	FOR APPROVAL
2	FOR TENDER
3	FOR CONSTRUCTION
4	AS CONSTRUCTED
5	FOR ARCHIVE

NOTES
REFER TO ISSUES FOR SPECIFICATIONS

AVERAGE COLLECTION AREA FOR EACH DRAIN = 25sq. MAXIMUM ALLOWABLE COLLECTION PER BC HEALTH STANDARD = 75sq. MAXIMUM ALLOWABLE SPACING BETWEEN GRATES PER BC HEALTH STANDARD = APPROX. 1.5m.

ELEVATION OF POOL EDGE AND BUILDING FLOOR ASSUMED TO BE 100. ALL OTHER ELEVATIONS INDICATED ON PLAN AS REQUIRED IF THERE IS A DIFFERENCE BETWEEN EXISTING AND ASSUMED

LEGEND
FINISHED GRADE AT SWIMMING POOL
INVERT OF P.O. BOX
PIPE AT SWIMMING POOL

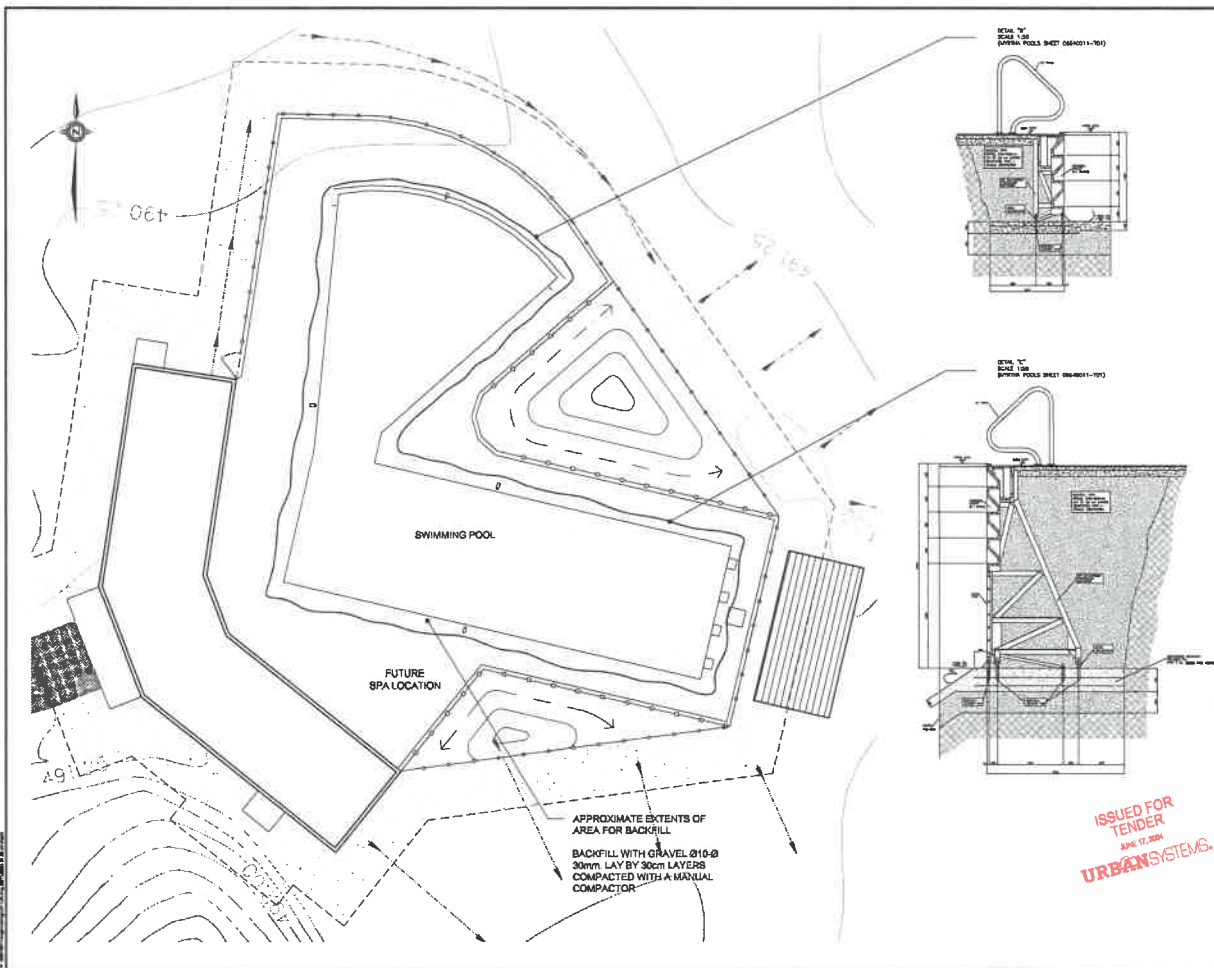
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3			APR. 2003
4		ES	

PROPOSED BY: URBAN SYSTEMS INC.

ISSUED FOR TENDER
DATE 17, 2004
URBANSYSTEMS

SWIMMING POOL BUILDING RELOCATION
GRADING AND WATERLINE DRAINAGE PLAN

PROJECT NO. 0654.0011.02
SHEET 2 OF 3
ISSUED BY: 06640011-102



ISSUED FOR TENDER
APR 17, 2004
URBANSYSTEMS

ISSUES	
NO.	DESCRIPTION
1	FOR APPROVAL
2	FOR TENDER
3	FOR CONSTRUCTION
4	AS CONSTRUCTED
5	FOR ARCHIVE

NO.	DESCRIPTION	REV.	DATE
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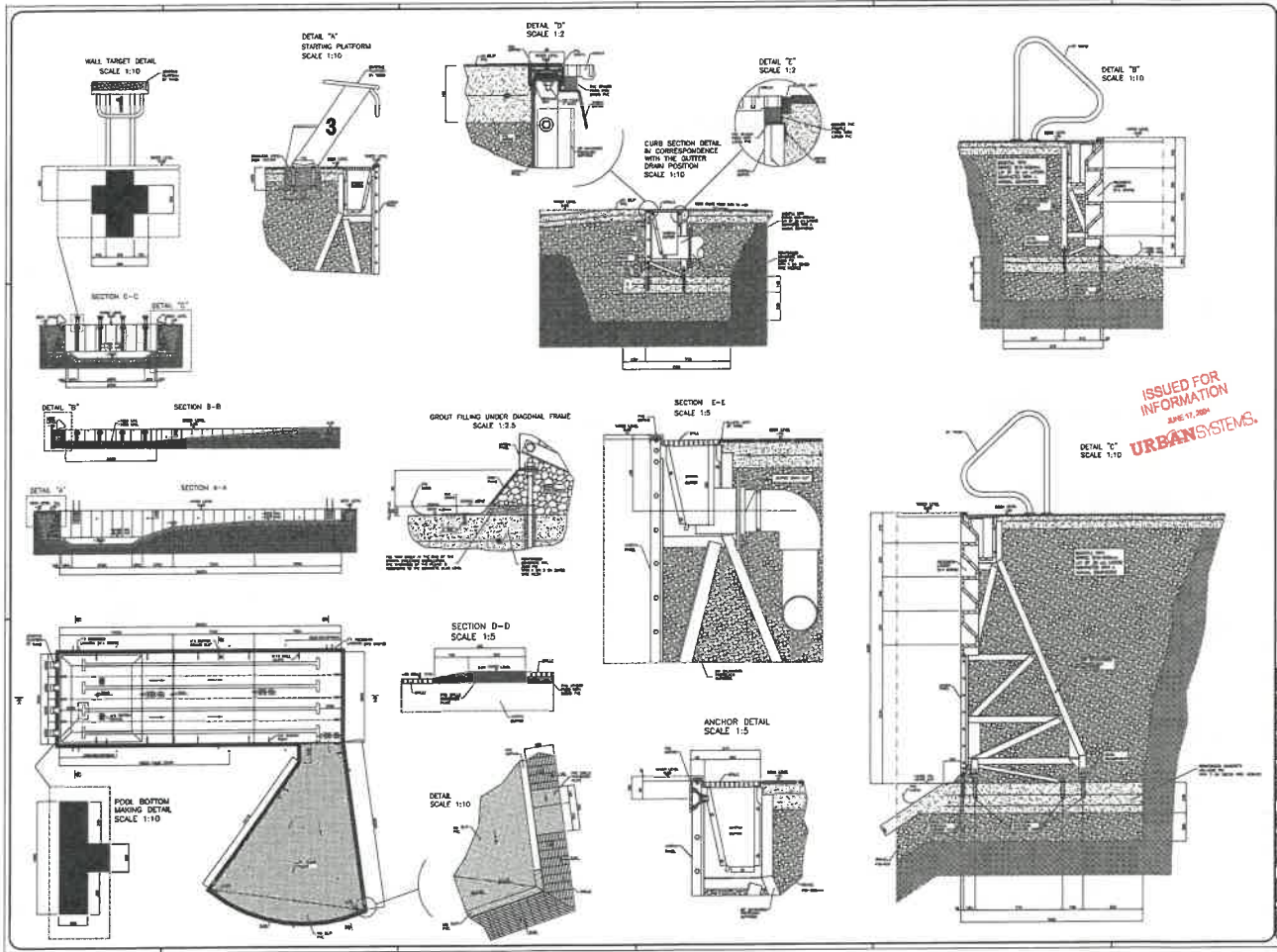
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URBANSYSTEMS
DISTRICT OF HUDSON'S HOPE

SWIMMING POOL BUILDING RELOCATION

BACKFILL AND WEeping TILE

Project No. 0664.0011.02
SHEET 3 of 3
Drawing No. 06640011-103



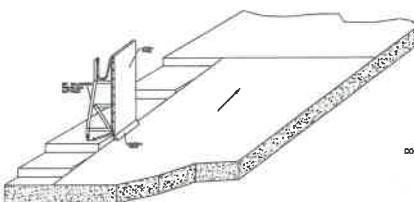
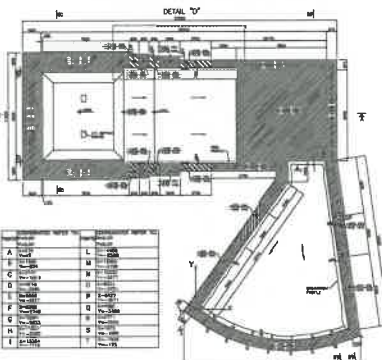
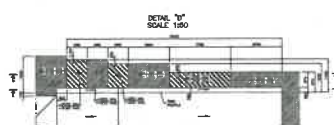
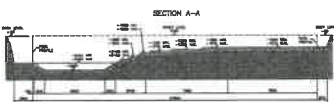
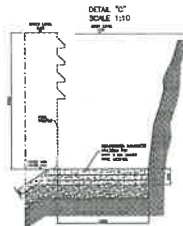
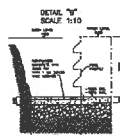
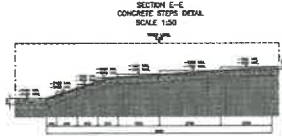
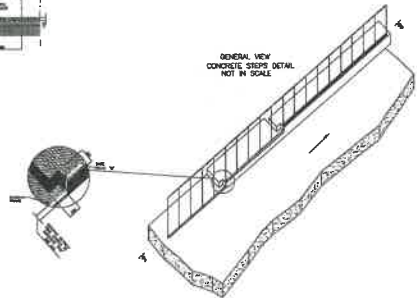
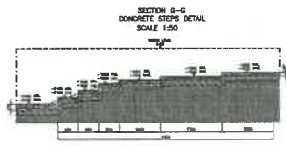
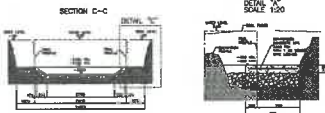
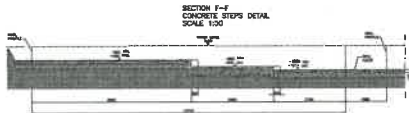
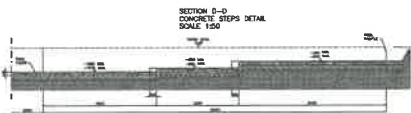
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DATE	DESCRIPTION

TECHNICAL DATA
 Prepared by: [Name]
 Checked by: [Name]
 Approved by: [Name]
 Date: [Date]

DISTRICT OF HUDSON'S HOPE
 PLAN, SECTION AND DETAILS

Myrtle Pools

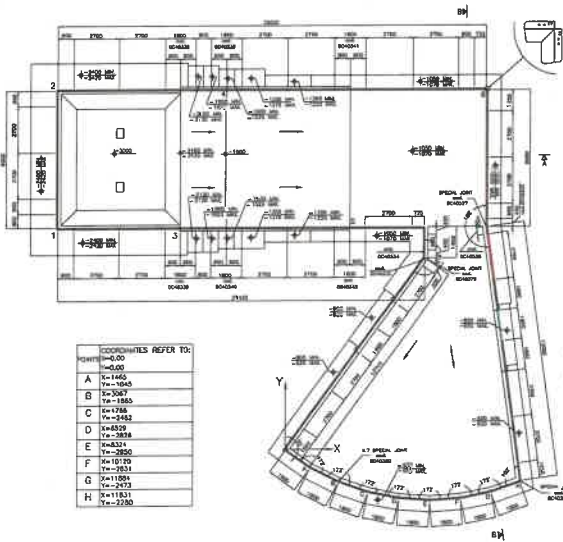
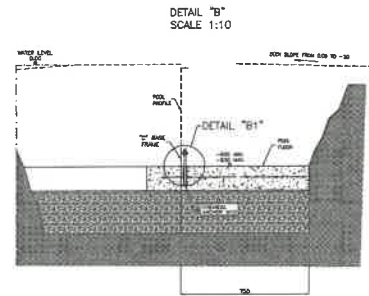
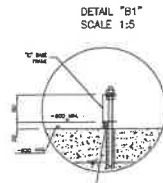
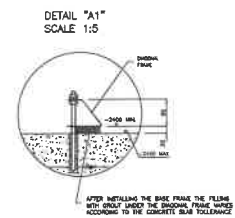
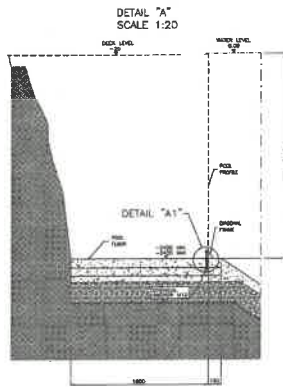
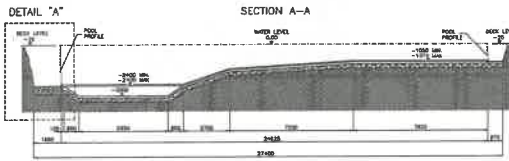
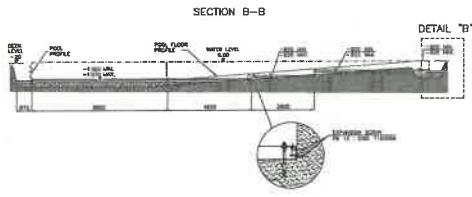


NO.	DESCRIPTION	QTY	UNIT
1	CONCRETE		
2	REINFORCING BARS		
3	FORMWORK		
4	BRICKWORK		
5	PAINT		
6	GLASS		
7	STEEL		
8	WOOD		
9	CEMENT		
10	AGGREGATE		
11	INSULATION		
12	ROOFING		
13	MECHANICAL		
14	ELECTRICAL		
15	PLUMBING		
16	FINISHES		
17	LANDSCAPE		
18	UTILITIES		
19	MECHANICAL		
20	ELECTRICAL		
21	PLUMBING		
22	FINISHES		
23	LANDSCAPE		
24	UTILITIES		
25	MECHANICAL		
26	ELECTRICAL		
27	PLUMBING		
28	FINISHES		
29	LANDSCAPE		
30	UTILITIES		

TECHNICAL DATA
 DISTRICT OF HOPE
 HUDSON'S HOPE
 CONCRETE FLOOR CASTING
 (BY THIRD)

ISSUED FOR INFORMATION
 JUNE 17, 2024
 URBANSYSTEMS

Myrtis Pools



COORDINATES REFER TO:

Point	X	Y
A	1850	1045
B	2007	1850
C	1786	2550
D	859	2818
E	831	2850
F	1019	1811
G	1126	2423
H	1181	2520



PLEASE NOTE:

FLAT DIAGONALS	SLOPING DIAGONALS
DIAGONAL 1-8 = min 28273 +/-10mm	DIAGONAL 3-4 = min 8481 +/-10mm
DIAGONAL 2-3 = min 18783 +/-10mm	DIAGONAL 4-5 = min 10773 +/-10mm
DIAGONAL 3-4 = min 8443 +/-10mm	
DIAGONAL 5-6 = min 18783 +/-10mm	
DIAGONAL 6-8 = min 11281 +/-10mm	

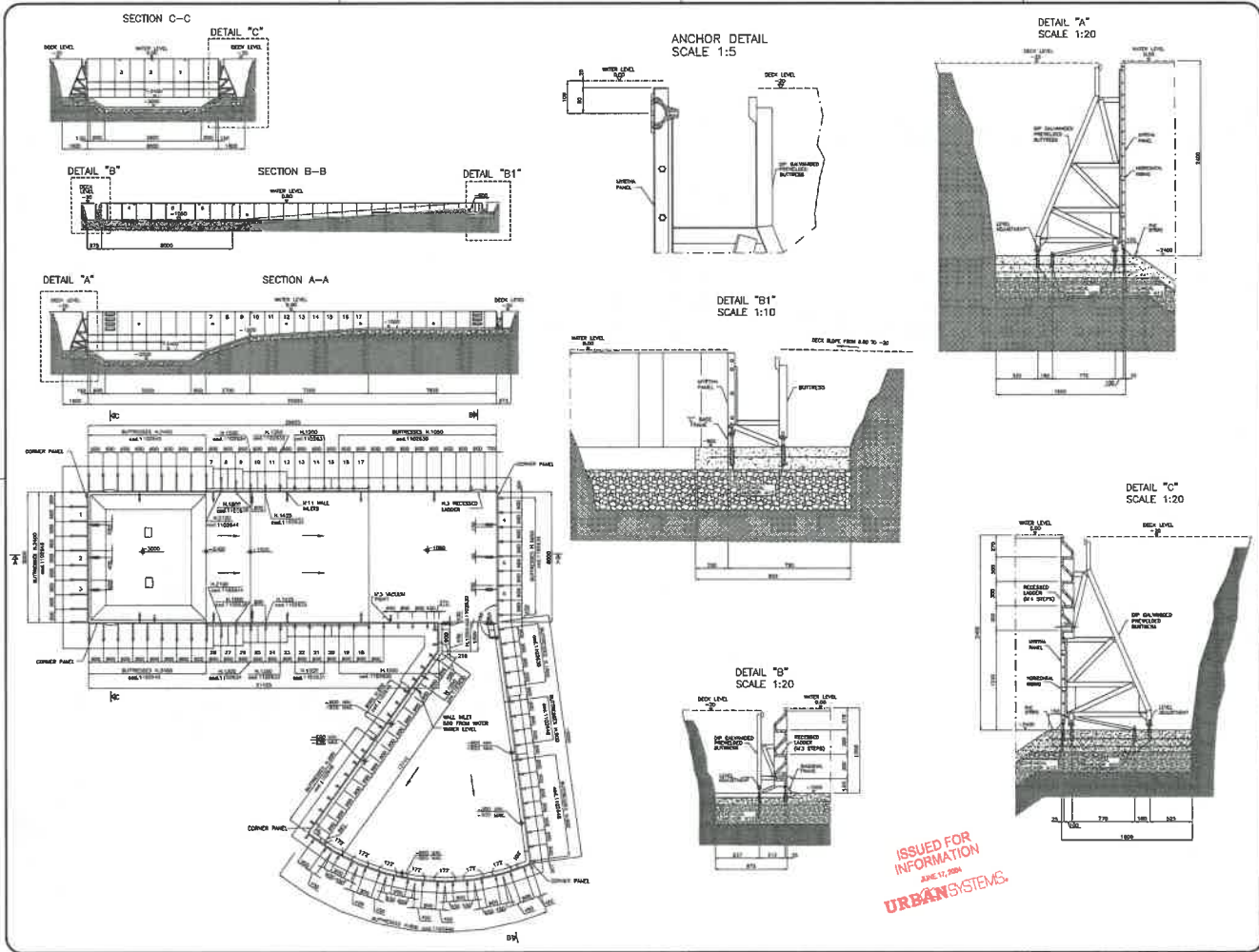
ISSUED FOR INFORMATION
JUNE 17, 2024
URBAN SYSTEMS

DESIGNER	URBAN SYSTEMS
PROJECT	HUDSON'S HOPE
DATE	JUL 10/2022
SCALE	1:100
PROJ NUMBER	08640011-703
SHEET	3
OF	5

TECHNICAL DATA CLASSIC "D" CLAY
DIMENSIONS: 200 x 200 mm
PERIMETER: m 107.4
SURFACE: m² 333
VOLUME:

DISTRICT OF HUDSON'S HOPE
BASE FRAME LAYOUT
PLAN, SECTION AND DETAILS

Myrtha Pools
10000 16th Avenue SW
Edmonton, Alberta T5A 4P6
Canada
Tel: (780) 443-8888
Fax: (780) 443-8888
www.myrthapools.com



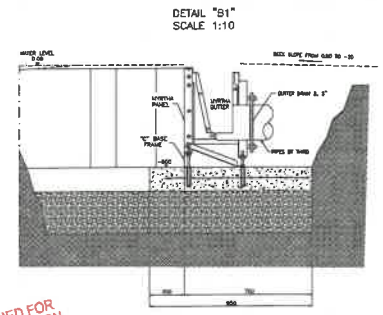
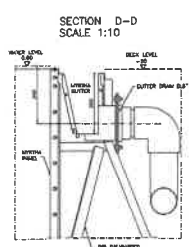
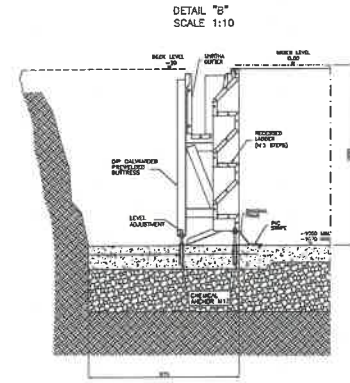
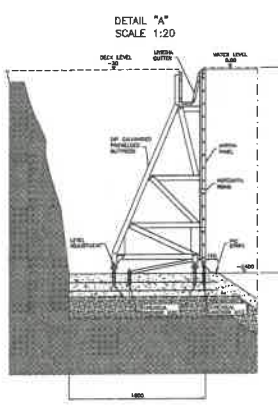
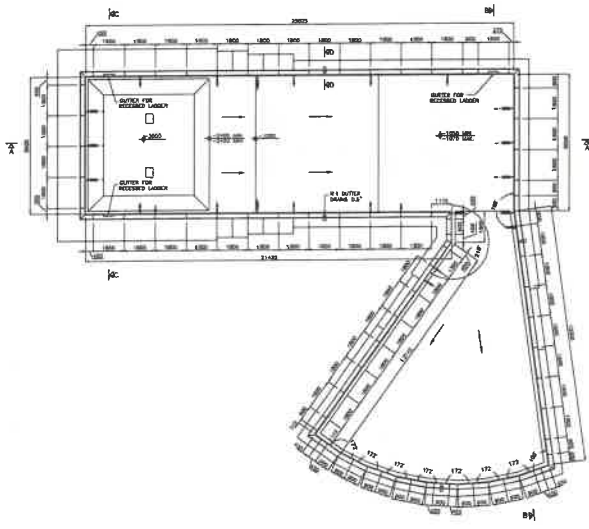
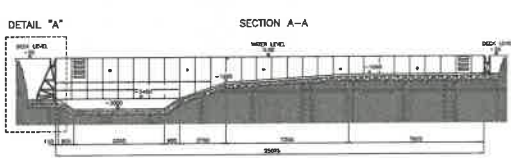
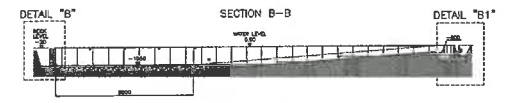
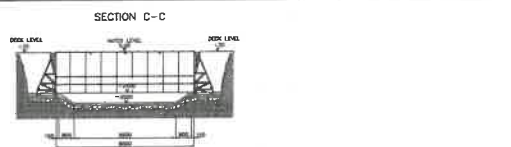
CREATED
LAST MODIFIED
DATE
JUL 10/2002
1:100
DRWG NUMBER
06640011-T04
SHEET
4
OF 6 SHEET

TECHNICAL DATA
 TECHNOLOGIST: MYRTHA CLASSIC
 DIMENSIONS: m 2508 m+4FF
 STRUCKER: m 1074
 VOLUME: m 358

DISTRICT OF
 HUDSON'S HOPE
 BUTTRESSES AND PANELS LAYOUT
 PLAN, SECTION AND DETAILS

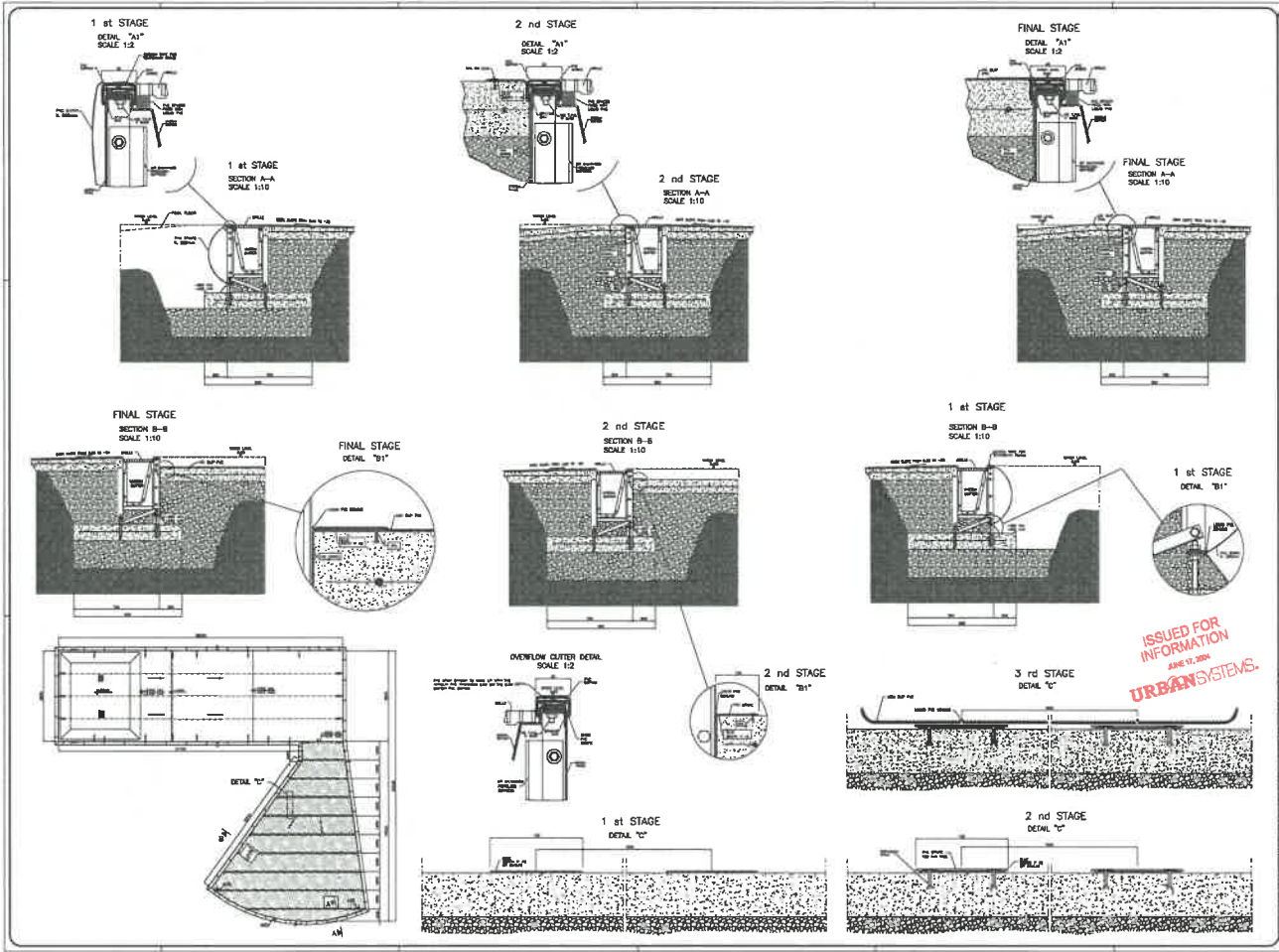


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 Myrtha Pools
 4500 45th Street SW
 Vancouver, BC
 TEL: 604-451-1111
 FAX: 604-451-1111
 WWW.MYRTHA.COM



ISSUED FOR INFORMATION
 APR 17, 2004
 URBANSYSTEMS

DESIGNED BY LARRY R. SARA PROJECT MANAGER	DATE JUL 10/2002
SCALE 1:100	DRAW NUMBER 08640011-105
SHEET NO. 5	TOTAL SHEETS 5
TECHNICAL DATA TECHNOLOGY: MYRTHA CLASSIC "DR" DIMENSIONS: m 2538 m+4F PERIMETER: m 107.4 VOLUME: m ³ 337	
DISTRICT OF HUDSON'S HOPE MYRTHA GUTTERS LAYOUT PLAN, SECTION AND DETAILS	
<small>Myrtha Pools 10000 10th Avenue New York, NY 10035 Tel: (212) 431-1111 Fax: (212) 431-1112 Email: myrthapools@a.com</small>	



ISSUED FOR INFORMATION
JUNE 12, 2008
URBANSYSTEMS

NO. 1000	DATE	BY	CHECKED
1000	06/11/08	JL	JK
DISTRICT OF HUDSON'S HOPE PAVILION AND ARTS CENTER POOL INSTALLATION			
Myrtha Pools® 10000 15th Avenue, Suite 100 Denver, CO 80202 Phone: 303.755.1100 Fax: 303.755.1101 Email: info@myrthapools.com			

APPENDIX 3: EVALUATION CRITERIA

The evaluation team will evaluate the proposals based on the categories outlined in the Submission Evaluation Scoring Table.

Submission Evaluation Scoring Table

<i>Categories</i>	<i>Points (Maximum 10)</i>	<i>Weighting</i>	<i>Weighted Score</i>
1. Project Understanding		1.5	
2. Methodology		1.5	
3. Project Schedule		2.0	
4. Experience/Qualifications		2.5	
5. Cost		2.5	

Points for submission will be based on the following.

- Each category of a proponent's submission will be given a score out of 10, with 10 being the highest.
- The points will be multiplied by the weighting to determine the weighted score for the category
- A proponent's submission total score will be the sum of the weighted category scores.

---End---

