



THE REGIONAL MUNICIPALITY  
OF DURHAM

WORKS DEPARTMENT  
DESIGN, CONSTRUCTION & ASSET MANAGEMENT



P.O. Box 325, 52 Hunter Street East  
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DRAWING INDEX

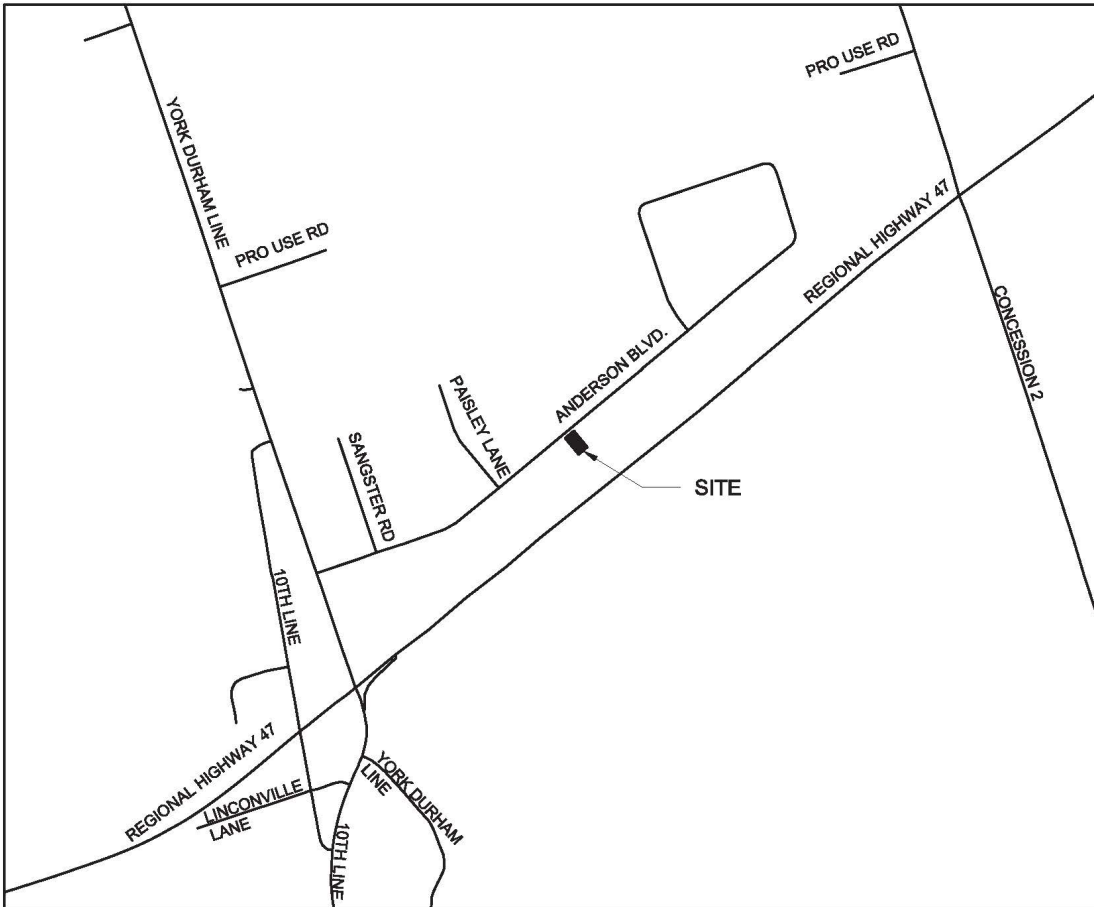
-- COVER SHEET

CIVIL

- C-001 EXISTING SITE PLAN AND DEMOLITION
- C-002 PROPOSED SITE PLAN
- C-003 DETAILS
- C-004 NOTES

UXVILLE WELL - HOLDING  
TANK RELOCATION

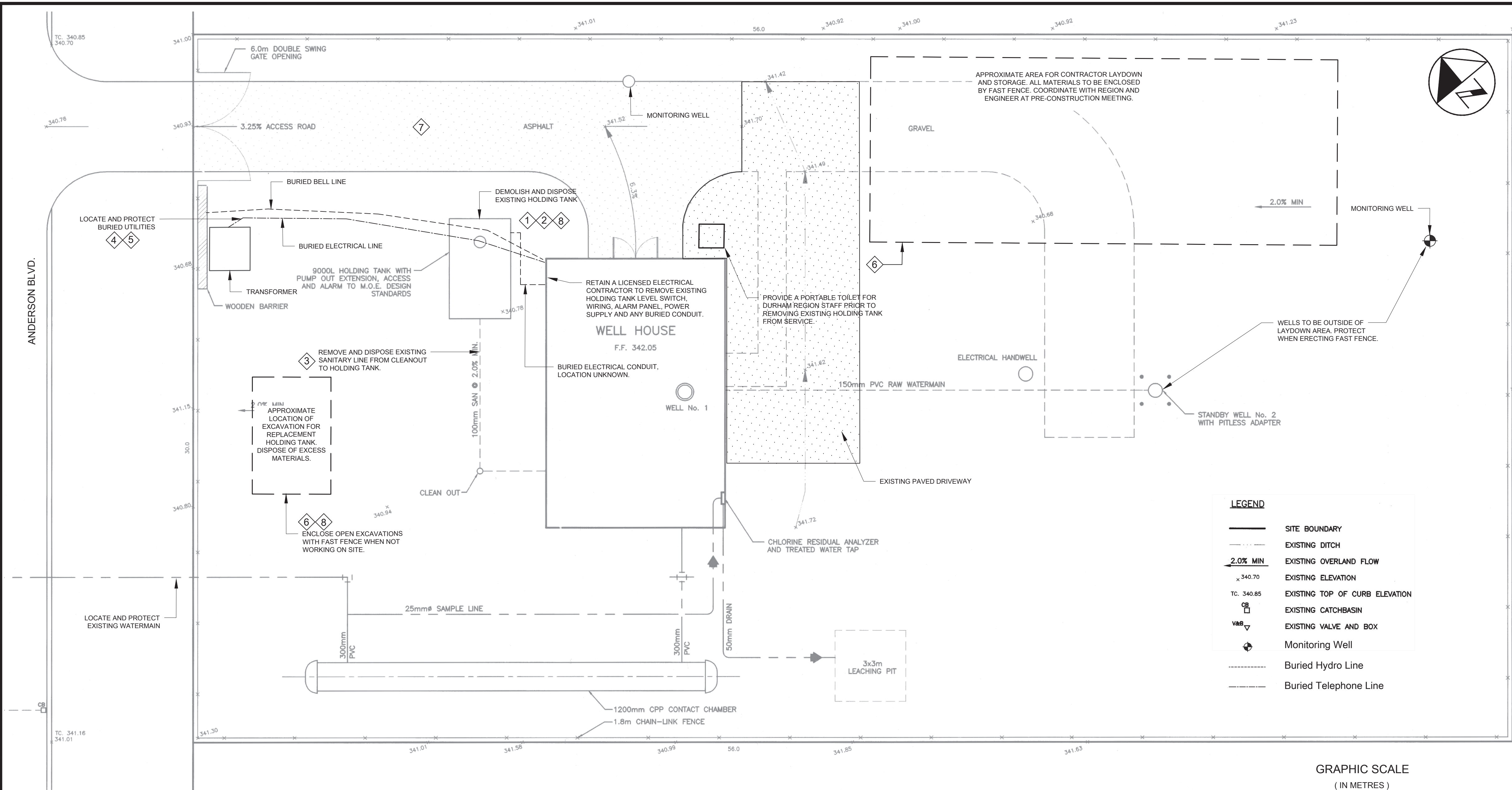
15 ANDERSON BLVD,  
UXBRIDGE



KEY PLAN  
SCALE 1:20,000

CONTRACT REVISIONS				
	0	03/21		ISSUED FOR TENDER
	NO.	DATE	NAME	REVISIONS
PROPERTY NO. WSP-AA2-0040			FACILITY CODE WELL-U-003	
CONTRACT NO. Q-303-2020-A-005-DCAM			FACILITIES PROJECT NO. WELL-U-003-20-01	





BACKGROUND TAKEN FROM SITE PLAN BY KMK CONSULTANTS LIMITED CONTRACT NO. Q658-2003 DATED 6 NOVEMBER 2003. ELECTRICAL AND COMMUNICATIONS LOCATIONS HAVE BEEN ADDED BASED ON PRELIMINARY LOCATES AUGUST 2020. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING ALL EXISTING WORKS AND UTILITIES. ENGINEER IS NOT RESPONSIBLE FOR DISCREPANCIES IN THS DRAWING AGAINST ACTUAL FIELD CONDITIONS.

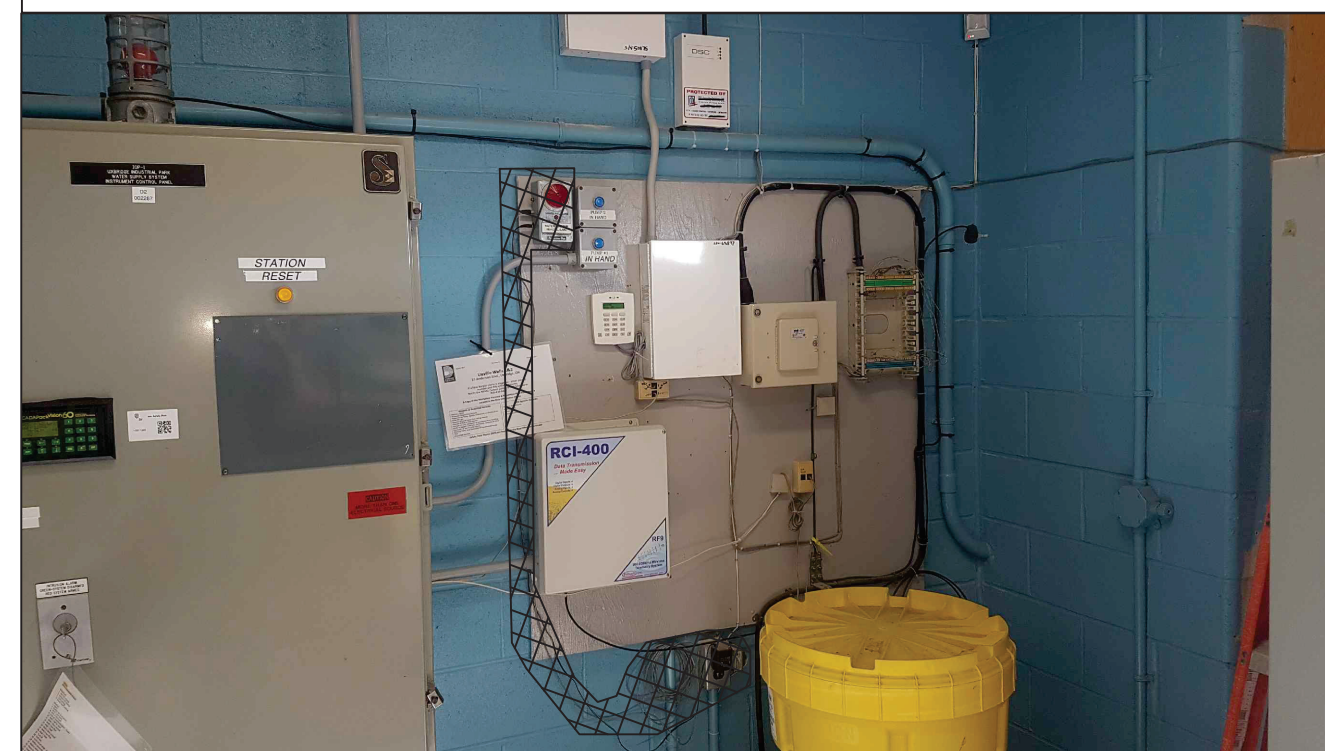
#### NOTES:

1. The Region will arrange and pay for a licensed hauler to pump out the existing sewage holding tank. Coordinate with Engineer to schedule pump out and provide sufficient notice so as to not delay the work.
2. Dispose of existing holding tank in accordance with applicable regulations.
3. Disconnect and dispose of existing sewer from cleanout to holding tank. Remove and dispose of cleanout.
4. Obtain private utility locates in the vicinity of the proposed work prior to construction.
5. Protect existing utilities during construction.
6. Provide temporary construction fence (fast fence) around the laydown area and open excavations for the duration of construction.
7. Contractor shall not use driveway for storage, parking or queuing, and shall allow continuous access for Region staff to enter well house.
8. Remove and dispose all garbage and excess soils.

#### 2 EXISTING BURIED HOLDING TANK LOCATION

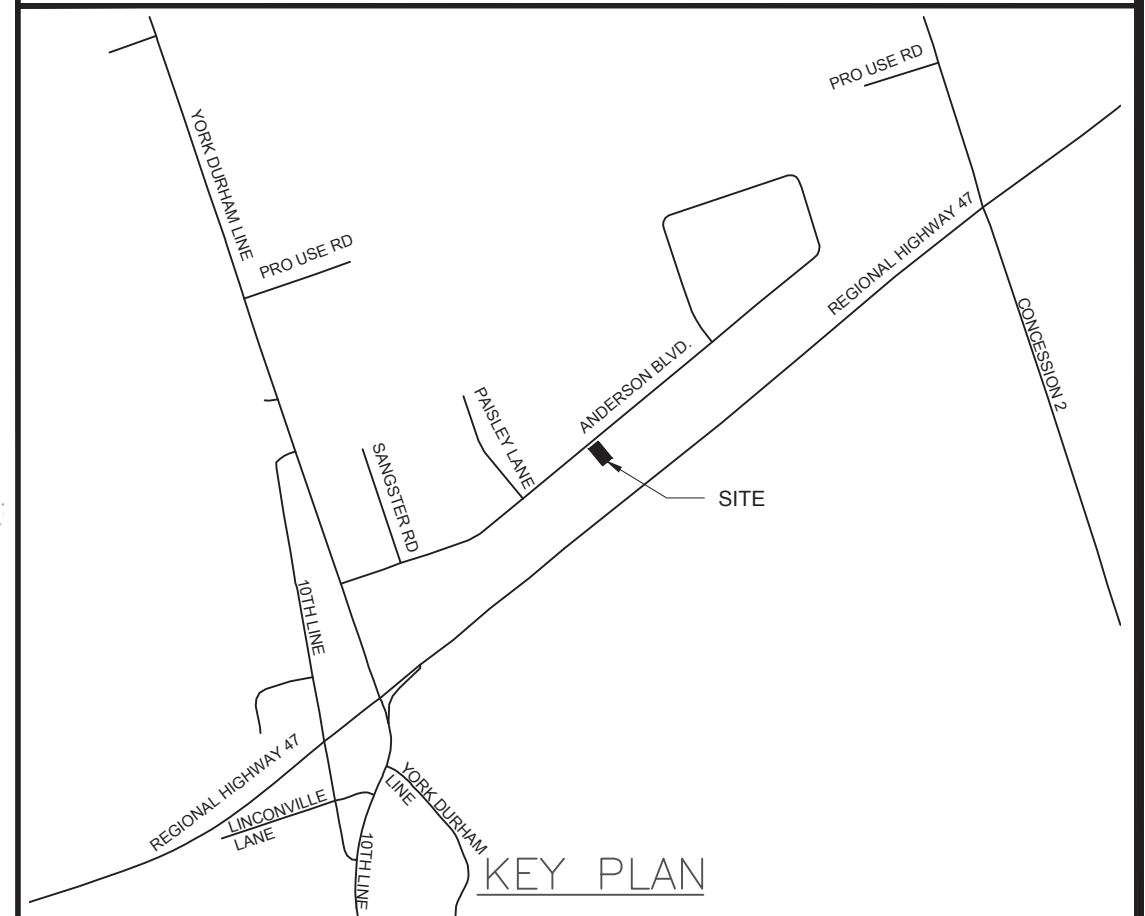


#### EXISTING ALARM PANEL REMOVAL



NOTE: ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.

ALL MEASUREMENTS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE AND ANY DISCREPANCIES ARE TO BE REPORTED BEFORE PROCEEDING WITH THE WORK. THE REGION OF DURHAM ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING SERVICES AS INDICATED ON THIS DRAWING. DO NOT SCALE DRAWINGS.



NO.	DATE	NAME	REVISIONS


PRIME CONSULTANT




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SUB-CONSULTANT




J.L. Richards  
ENGINEERS-ARCHITECTS-PLANNERS



DESIGN BY: JTK	SCALE 1:100
DRAWN BY: MAT	DATE: March 2021
CHECKED BY: SPD	CONSULTANT PROJECT NO. 11054-001
APPROVED BY: JTK	

NO.	DATE	NAME	REVISIONS
0	03/21		ISSUED FOR TENDER



THE REGIONAL MUNICIPALITY  
OF DURHAM  
WORKS DEPARTMENT  
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## UXVILLE WELL HOLDING TANK RELOCATION EXISTING SITE PLAN AND DEMOLITION

PROPERTY NO. WSP-AA2-0040	FACILITY CODE WELL-U-003	FACILITIES PROJECT NO. WELL-U-003-20-01
CONTRACT NO. Q-303-2020-A-005-DCAM	DRAWING NO. C-001	SHEET NO. 2 OF 5











1. Provide all labour, materials, equipment and temporary works to complete all work indicated.
2. Provide own temporary water & sewage services; owner facilities shall not be used.
3. Enclose all work areas containing equipment, materials, open excavations and/or potential exposure to sewage contamination with wire panel temporary construction fencing and signage warning of danger.
4. Dispose of all garbage and excess materials in accordance with applicable regulations. The owner's garbage bins shall not be used.
5. Holding tank installer shall be licensed by the Ministry of Municipal Affairs and Housing (MMAH) under Part 8 of the Ontario Building Code (OBC).
6. Where standards or codes are referenced, the most recent shall apply.
7. Where changes to the design or contract requirements are proposed, follow the procedures as outlined in the contract to obtain Owner approval prior to implementing any such changes.
8. Attend the site for a coordination meeting prior to mobilization to allow inspecting the property, assessing restrictions, and clarifying all specified requirements including finalizing installation locations of the tanks, and control panel. Verify extent of the Contractor's controlled work area per Ministry of Labour requirements. Coordinate with Owner regarding impacts to owner's operations.
9. Provide at least 2 working days' notice prior to desired day of inspection by Engineer for the following milestones:
  - a. Completion of granular base preparation for new tank.
  - b. New tank has been installed.
  - c. Completion of plumbing & electrical. Leave plumbing exposed for inspection.
  - d. Commissioning.
10. The locations of existing utilities shown on the drawings are approximate only and must be verified in the field prior to start of construction.
11. Maintain up-to-date as-built drawings on site and submit to the Consultant after construction is complete.
12. Maintain the site in a clean condition free from the accumulation of waste products and debris.
13. Be responsible for the site layout as well as horizontal and vertical control.
14. Pay for all permits and fees.
15. Comply with the Occupational Health and Safety Act and regulations for construction projects and all other applicable safety regulations in force.

1. All civil removals and associated excavations shall be completed in accordance with OPSS 216 and OPSS 510.
2. All existing pavement edges to be saw cut where new pavement to be connected.
3. Contractor shall implement all necessary measures and techniques to protect existing underground services, structures, piping and associated appurtenances during removal and reinstatement operations. Any damage during construction shall be replaced at no cost to the Owner.

1. Locate and protect all utilities prior to construction.
2. Check and verify all dimensions before proceeding with work and be responsible for the same.
3. All work must be completed in accordance with relevant codes and guidelines.
4. The project specifications shall be read in conjunction with design drawings.
5. All equipment and materials shall be installed as specified or approved equivalent and meet all relevant codes and guidelines.
6. Tracer wire and/or other means of subsurface detection must be tested prior to backfill.
7. Testing shall be completed prior to start-up of the wastewater system.

1. Material: precast concrete in accordance with CAN/CSA B66, unless otherwise noted.
2. Coordinate all risers, openings and connection locations with holding tank manufacturer, as applicable.
3. Install on suitable base in accordance with tank manufacturer's installation instructions.
4. If groundwater is encountered during excavation and tank base preparation, consult with Engineer on anchoring requirements to prevent uplift.
5. Equip with 610 mm access risers extending at least 100mm above finished grade to allow access from grade to service any inlets, outlets and/or treatment components.

1. Furnish SJE Rhombus Tank Alert XT Alarm System with standard SJE SignalMaster control float switch, or approved equal.
2. Panel to include the following features:
  - a. 120 V, 60 Hz
  - b. Weatherproof enclosure rated for indoor or outdoor installation
  - c. Power on indicator light
  - d. Alarm horn and alarm beacon which both activate when the control float switch reaches the designed high liquid level in the holding tank
  - e. Horn silence switch
  - f. Alarm test switch
  - g. Alarm automatically resets when the high liquid level condition is cleared

1. All electrical work to be completed by licensed electrical contractor.
2. Electrical contractor to obtain and pay for ESA permit, arrange for inspections, and submit copy of Certificate of Acceptance to Engineer.
3. Electrical Contractor shall be present to coordinate removal of the tank in order to protect existing utility cables (power and Bell). If required, cables may be disconnected and/or pulled back during tank removal. If disconnection is required, refer to Div 1 specifications for notification requirements and time restrictions. Utilities shall be fully reinstated (installed similar to existing, reconnected, and re-powered).
4. Existing utilities are assumed to be in conduit and not concrete duct banks. It is assumed that reinstatement of utilities will not require large cuts. Any issues with the utilities during construction shall be immediately brought to the Owner's attention.
5. For all buried cable or conduit installations, provide suitable marker tape and use screened sand to protect the cables or conduits. Screened sand layer shall be minimum 75mm above, below, and to either side of cables or conduits. Conduit spacing shall be 190mm center to center. Underground conductor splices are not permitted. If cables are damaged or are of insufficient length, new cables or conductors are required to be run.
6. For the portion of the re-buried utilities beneath the new driveway, provide treated panels for protection per OESC 12-012. If sand for conduit run is within the granular layer, provide geotextile wrap fully enclosing the sand layer. Geotextile to be Class II, Non-Weave in accordance with OOPS 1860.

1. Reinstatement all affected areas to a condition equal to or better than existing, and repair any damage caused during construction to the satisfaction of the Consultant and Owner.
2. Backfill tank with Granular B Type II.
3. Supply and place all granular materials in conformance with OPSS 206, OPSS 314, and OPSS 1010.
4. Compact all materials in accordance with OPSS MUNI 501 (Method B) and have approved by a Geotechnical Consultant. The target density shall be based on the Standard Proctor Maximum Dry Density (SPMDD).
5. Place and compact asphalt in accordance with OPSS 310.
6. Apply polymer-modified bitumen product (Densoband size 15 x 45mm or approved equal) and its associated primer to all pavement edges at the surface asphalt lift only, as per the manufacturer's specifications.
7. Reinstatement topsoil and grass in accordance with Specifications 32 91 19.13 and 32 92 00.

1. Retain and pay for a geotechnical consultant for granular and asphalt testing.
2. Coordinate and perform QA/QC testing in accordance with the applicable OPSS and specifications.
3. Submit all test reports to the Consultant for approval.
4. Supply materials in accordance with stipulated OPSS standards.
5. Coordinate for a geotechnical consultant to perform compaction testing and submit all test reports to the Consultant for approval.
6. Where material supplied or installation fails to meet the specified requirements, remove and reinstall compliant material in accordance with the specifications at no cost to the Owner.

[illegible]

CONSULTANT REVISIONS			
NO.	DATE	NAME	REVISIONS



**J.L. Richards**  
ENGINEERS - ARCHITECTS - PLANNERS

DRAWN BY: MAT

QUEUED BY QDD

CHECKED BY: SPJ

APPROVED BY: JTK

DATE: March 2021

CONSULTANT PROJECT NO. 11054-001

CONTRACT REVISIONS			
0	03/21		ISSUED FOR TENDER
NO.	DATE	NAME	REVISIONS



WORKS DEPARTMENT

DESIGN, CONSTRUCTION &amp; ASSET MANAGEMENT

UXVILLE WELL HOLDING  
TANK RELOCATION NOTES

PROPERTY NO.  
WSP-AA2-0040

FACILITY CODE  
WELL-U-003

FACILITIES PROJECT NO.  
WELL-U-003-20-01

CONTRACT NO.  
Q-303-2020-A-005-DCAM

DRAWING NO.  
C-004

SHEET NO.  
5 OF 5

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