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1 INTRODUCTION

DMG Consulting was selected by the Town of Baie Verte to assess and provide recommendations on repairs or replacement of their existing outdoor pool, located at 117-165 Highway 410 in Baie Verte, NL. Reg Hedges, P. Eng and Eric Humphries, CET of DMG conducted the structural assessment on September 12th, 2019. The mechanical and electrical systems were assessed by Dean Hopkins, CET and Neil Cleary, P. Eng of Crosbie Engineering on September 25th, 2019.

2 ASSESSMENT

2.1 GENERAL

The pool structure was assessed by Reg Hedges and Eric Humphries from DMG Consulting on September 12, 2019.

In general, the pool and associated building appear to be in poor to very poor condition. The water level has been observed at the following loss rates:

<table>
<thead>
<tr>
<th>Water Level</th>
<th>Loss Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above Skimmer</td>
<td>7”/hr</td>
</tr>
<tr>
<td>Below skimmer, above jets</td>
<td>4”/hr</td>
</tr>
<tr>
<td>Below Jets</td>
<td>2”/hr</td>
</tr>
</tbody>
</table>

When accounting for head loss due to the lower water level, it is clear that the skimmers and jets are a major source of water loss. The remaining water is likely lost through and cracks in the concrete, but mostly through the main pool drain, as it is in extremely poor condition.
2.2 POOL STRUCTURE

The pool structure is in poor condition, the following observations were made:

1. There are sections on the wall and deck where concrete has spalled off and been repaired.
2. There are several cracks in the pool floor, walls and deck
3. Rebar is exposed in areas.

Such significant deterioration will only increase the rate of degradation. Due to the condition of the pool it will need significant repairs.

2.3 MECHANICAL SYSTEMS

The pool mechanical systems were assessed by Neil Cleary from Crosbie Engineering Ltd. on September 25th, 2019. Their full assessment report is attached as Appendix A. The summary of their recommendations are as follows:

<table>
<thead>
<tr>
<th>Item.</th>
<th>Description</th>
<th>Condition</th>
<th>Recommendation</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pool Mechanical</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.1</td>
<td>Filtration and Pump Equipment</td>
<td>Very Poor, past use</td>
<td>Full Replacement</td>
<td>$25,000.00</td>
</tr>
<tr>
<td>1.2</td>
<td>Piping</td>
<td>Very Poor, past use</td>
<td>Full Replacement</td>
<td>$25,000.00</td>
</tr>
<tr>
<td>1.3</td>
<td>Furnace / Water Heater / Fuel Supply</td>
<td>Furnace in good condition. Fuel supply and breaching need replacement</td>
<td>Replace fuel supply and breaching</td>
<td>$15,000.00</td>
</tr>
<tr>
<td>2</td>
<td>Building Mechanical</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.1</td>
<td>Ventilation</td>
<td>No ventilation existing</td>
<td>Install new ventilation system</td>
<td>$15,000.00</td>
</tr>
<tr>
<td>2.2</td>
<td>Plumbing Systems</td>
<td>Very Poor, past use</td>
<td>Full Replacement</td>
<td>$20,000.00</td>
</tr>
<tr>
<td>2.3</td>
<td>Fire Protection</td>
<td>inadequate</td>
<td>Provide additional Fire extinguishers</td>
<td>$2,500.00</td>
</tr>
</tbody>
</table>

2.4 ELECTRICAL SYSTEMS

The pool mechanical systems were assessed by Dean Hopkins from Crosbie Engineering Ltd. on September 25th, 2019. Their full assessment report is attached as Appendix B. The summary of their recommendations are as follows:
<table>
<thead>
<tr>
<th>Item.</th>
<th>Description</th>
<th>Condition</th>
<th>Recommendation</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Service and Distribution</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.1</td>
<td>Main Electrical service</td>
<td>Very Poor</td>
<td>Repair and replace</td>
<td>$10,000.00</td>
</tr>
<tr>
<td>1.2</td>
<td>120/240 V distribution</td>
<td>Very Poor</td>
<td>Replace</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Grounding and Bonding system</td>
<td>Poor</td>
<td>Repair and upgrade</td>
<td>$1,500.00</td>
</tr>
<tr>
<td>3</td>
<td>Lighting</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.1</td>
<td>Interior</td>
<td>Poor</td>
<td>Replace</td>
<td>$5,000.00</td>
</tr>
<tr>
<td>3.2</td>
<td>Exterior</td>
<td>Poor</td>
<td>Replace</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Emergency and Exit Lighting</td>
<td>Inadequate</td>
<td>Install New</td>
<td>$5,000.00</td>
</tr>
<tr>
<td>5</td>
<td>Heating System</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.1</td>
<td>Main heating system</td>
<td>Non existent</td>
<td>Install new</td>
<td>$3,000.00</td>
</tr>
<tr>
<td>6</td>
<td>Wiring devices</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.1</td>
<td>Receptacles</td>
<td>Poor and inadequate</td>
<td>Install new</td>
<td>$5,000.00</td>
</tr>
<tr>
<td>6.2</td>
<td>Light switches</td>
<td>Poor and inadequate</td>
<td>Install new</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Wiring Method</td>
<td>Inadequate</td>
<td>Upgrade</td>
<td>$4,000.00</td>
</tr>
</tbody>
</table>

### 3 GROUND PENETRATING RADAR

The Ground Penetrating Radar investigation took place on November 9, 2019. Both the pool and the deck area were investigated. The full report for the Pool Area is contained in Appendix C, and the full report for the Deck Area is contained in Appendix D.

The following is a summary of the investigation for the Pool:

**SUMMARY OF EXAMINATION:**

Exam considered fair. After processing pool 2D GPR data it is the finding of this report that the majority of the pool deck is moderately underpinned/voided with localized areas of profound and severe voiding. The visual inspection revealed numerous areas of patching and repair and remediation would be difficult. Recommend reinforcement integrity exam if remediation is considered an option.
The following is a summary of the investigation for the Pool Deck:

SUMMARY OF EXAMINATION:
Exam considered fair. After processing pool deck 2D GPR data it is the finding of this report that the majority of the pool deck is either moderately or profoundly underpinned/voided. Remediation will be difficult, removal/replacement is recommended.

4 EVALUATIONS AND ESTIMATES

Based on DMG’s and Crosbie assessments of the pool in its current condition, the following sections are the cost alternatives for repairing the existing pool as well as the creation of a new pool. All estimates are class ‘D’
4.1 REPAIR EXISTING POOL

The following is the cost to repair the pool without replacing all the concrete and would extend the life of the pool 7 to 10 years.

1. New septic tank and disposal field $12,000.00
2. Remove and replace concrete wall around pool $28,000.00
3. Replace underground pipe $25,000.00
4. Repair Concrete $60,000.00
5. Epoxy paint (370 sq.m @ $50) $18,500.00
6. Building Upgrades - Architectural $30,000.00
7. Move Mechanical Equipment Room above ground $37,500.00
8. New chlorination system $40,000.00
9. Mechanical Upgrades $102,500.00
10. Electrical Upgrades $33,500.00

Subtotal $387,000.00
Contingency (10%) $38,700.00
Engineering (12%) $51,000.00
Subtotal $476,700.00
H.S.T. $71,505.00
Grand Total $548,205.00

4.2 REPAIR EXISTING POOL – FULL CONCRETE REPLACEMENT

The following is for repairs to the pool including replacement of all the pools concrete and would extend the life of the pool 25 to 30 years.

1. New septic tank and disposal field $12,000.00
2. Remove and replace concrete wall around pool $28,000.00
3. Replace underground pipe $25,000.00
4. Replace Concrete $250,000.00
5. Epoxy paint (370 sq.m @ $50) $18,500.00
6. Building Upgrades - Architectural $30,000.00
7. Move Mechanical Equipment Room above ground $37,500.00
8. New chlorination system $40,000.00
9. Mechanical Upgrades $102,500.00
10. Electrical Upgrades $33,500.00

Subtotal $577,000.00
Contingency (10%) $57,700.00
Engineering (12%) $76,200.00
Subtotal $710,900.00
H.S.T. $106,635.00
Grand Total $817,535.00
4.3 EXISTING POOL DEMOLITION

The following is the cost to demolish the pool and remove all associated parts and equipment, then reinstate the site into grassed area. This does not include the remediation of any potentially contaminated materials or soil.

1. Remove septic field $ 6,000.00
2. Demolish pool $ 15,000.00
3. Remove underground piping $10,000.00
4. Remove mechanical equipment $15,000.00
5. Remove electrical equipment $ 5,000.00
6. Demolish Building $ 15,000.00
7. Reinstall site with fill, topsoil and sod $ 30,000.00

Subtotal $ 96,000.00
Contingency (10%) $ 9,600.00
Engineering (12%) $12,600.00
Subtotal $ 118,200.00
H.S.T. $ 17,730.00
Grand Total $ 135,930.00

4.4 NEW OUTDOOR POOL

The following estimate is for an entirely new outdoor pool of a similar size as the existing one

1. New 2500 sq.ft building, including mechanical and electrical $ 800,000.00
2. New pool $ 250,000.00
3. Concrete walk $ 45,000.00
4. Fence, septic tank, disposal field and site work $100,000.00

Subtotal $ 1,195,000.00
Contingency (10%) $ 119,500.00
Subtotal $ 1,314,500.00
H.S.T. $ 197,175.00
Grand Total $ 1,511,675.00
4.5 NEW INDOOR POOL

The following estimate is for an entirely new indoor pool of a similar size as the existing one.

1. New 6200 sq.ft indoor pool building, with change rooms, and all mechanical and electrical.
   $ 3,045,000.00

   Subtotal $ 3,045,000.00
   Contingency (10%) $ 304,500.00
   Subtotal $ 3,349,500.00
   H.S.T. $ 502,425.00

   Grand Total $ 3,851,925.00

4.6 ESTIMATE SUMMARY

The following table is a summary of the previous estimates.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1</td>
<td>Repair Existing Pool</td>
<td>$ 548,205.00</td>
</tr>
<tr>
<td>4.2</td>
<td>Repair Existing Pool – Full Concrete Replacement</td>
<td>$ 817,535.00</td>
</tr>
<tr>
<td>4.3</td>
<td>Existing Pool Demolition</td>
<td>$ 135,930.00</td>
</tr>
<tr>
<td>4.4</td>
<td>New Outdoor Pool</td>
<td>$ 1,511,675.00</td>
</tr>
<tr>
<td>4.5</td>
<td>New Indoor Pool</td>
<td>$ 3,851,925.00</td>
</tr>
</tbody>
</table>

5 RECOMMENDATIONS

Our recommendation is to proceed in one of two directions. If repairs are selected, we recommend repairing the existing pool with the full concrete replacement. Without the full concrete replacement, the service life does not extend enough to warrant the investment. If a new pool is selected, we recommend building a new indoor pool in an alternate location. Indoor pools are much more energy efficient, and provide year-long usability regardless of weather. With the frequent changes in weather the use of an indoor will become increasingly limited. The existing pool is too near a salmon river and creates and environmental concern, so a new pool should be built elsewhere.
APPENDIX A

MECHANICAL ASSESSMENT REPORT
Mechanical Assessment Report
Outdoor Swimming Pool
Baie Verte, NL

Prepared for:
DMG Consulting Limited
185 Roe Avenue
P.O. Box 194
Gander, NL A1V 1W6

Prepared by:
Neil Cleary, P. Eng.
21 Mews Place, 2nd Floor
P.O. Box 13295, STN “A”
St. John’s, NL A1B 4A5

Project No.: 19-2669

Date: September 27, 2019
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Appendix “A” – Field Photos
1.0 INTRODUCTION

Neil Cleary, P. Eng. of Crosbie Engineering Limited visited Baie Verte’s Outdoor Swimming Pool on Wednesday, September 25, 2019 to complete a mechanical condition assessment. Two town representatives’ Dean Giles and Owen Cake assisted in the assessment. This report describes deficiencies in the existing Mechanical systems as observed during the site visit and from discussions with maintenance personnel.

2.0 POOL MECHANICAL SYSTEMS

2.1 Filtration and Pump Equipment

Observations:
The equipment looked to be largely original to the building from 1967. The equipment in its entirety, needs to be replaced. It is well past its expected useful life.

Recommendations:
Based on the above observations, we recommend the following:

1. Full replacement of all pool mechanical equipment.

Estimated Cost:
Estimated total material and labour cost is: $25,000.00

2.2 Piping

Observations:
The piping was a mix of old and newer piping. It was partially dismantled for winter freeze protection. Much of the piping was improperly supported and suspended at varying angles and methods. There appeared to be much degradation to the structure of the mechanical room,

The piping around the outside of the pool, under the apron, could not be expected. There are reportedly various leaks from the pool, and piping could play a part in this.

The piping in its entirety, needs to be replaced. It is, for the most part, well past its useful life expectation.

Recommendations:
Based on the above observations, we recommend the following:
1. Full replacement of all pool mechanical piping.

*Estimated Cost:*
Estimated total material and labour cost is: $15,000.00

### 2.3 Furnace / Water Heater / Fuel Supply

*Observations:*
The hot water to heat the pool is provided via a pump and oil fired furnace. The furnace is approximately three years old and is in good condition, and is salvageable.

The boiler breeching appears to be poorly installed and the roof thimble was suspect and not properly installed. This breeching should all be replaced.

The fuel supply from the outside above grade fuel tanks runs underground from an adjacent building near where the tanks are located. This carries significant environmental risk. The tanks should be diked, double walled, and located adjacent to the boiler room. All piping should be visible above grade.

*Recommendations:*
Based on the above observations, we recommend the following:

1. Full replacement of all breeching and fuel supply equipment.

*Estimated Cost:*
Estimated total material and labour cost is: $15,000.00

### 3.0 BUILDING MECHANICAL SYSTEMS

The pool building has no ventilation and all mechanical systems are past their useful life.

#### 3.1 Ventilation

*Observations:*
The building has no ventilation. A minimum amount of fresh air and exhaust is needed for all spaces. Additionally, the mechanical room should have air changes to control humidity and temperature..

*Recommendations:*
Based on the above observations, we recommend the following:

1. Installation of mechanical ventilation systems.


### Estimated Cost:
Estimated total material and labour cost is: $15,000.00

#### 3.2 Plumbing Systems

**Observations:**
The building plumbing systems are beyond their useful life. The fixtures are all worn out and in need of replacement.

The piping is mostly copper with some ABS plastic at the fixtures, sinks and what not. The piping doesn’t appear to be leaking but is definitely beyond its reasonable life expectancy.

**Recommendations:**
Based on the above observations, we recommend the following:

1. Full replacement of all plumbing piping and fixtures.

**Estimated Cost:**
Estimated total material and labour cost is: $20,000.00

#### 3.3 Fire Protection

**Observations:**
The building is not sprinklered. Fire Extinguishers are required per NFPA 10.

**Recommendations:**
Based on the above observations, we recommend the following:

1. Provide additional fire extinguishers to meet code.

**Estimated Cost:**
Estimated total material and labour cost is: $2500.00
4.0 SUMMARY OF RECOMMENDATIONS AND COST

The following is a summary of recommendations and the associated costs.

<table>
<thead>
<tr>
<th>Description</th>
<th>COST</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>POOL MECHANICAL SYSTEMS</strong></td>
<td></td>
</tr>
<tr>
<td>Filtration and Pump Equipment</td>
<td>$25,000.00</td>
</tr>
<tr>
<td>Piping</td>
<td>$25,000.00</td>
</tr>
<tr>
<td>Furnace / Water Heater / Fuel Supply</td>
<td>$15,000.00</td>
</tr>
<tr>
<td><strong>BUILDING MECHANICAL SYSTEMS</strong></td>
<td></td>
</tr>
<tr>
<td>Ventilation</td>
<td>$15,000.00</td>
</tr>
<tr>
<td>Plumbing Systems</td>
<td>$20,000.00</td>
</tr>
<tr>
<td>Fire Protection</td>
<td>$2,500.00</td>
</tr>
<tr>
<td><strong>Subtotal Construction Cost</strong></td>
<td>$102,500.00</td>
</tr>
<tr>
<td><strong>Engineering Cost</strong></td>
<td>$15,375.00</td>
</tr>
<tr>
<td><strong>Total Cost - Mechanical Division</strong></td>
<td>$117,875.00</td>
</tr>
</tbody>
</table>

HST Extra

APPENDIX “A”
FIELD PHOTOS
APPENDIX B

ELECTRICAL ASSESSMENT REPORT
Electrical Assessment Report
Baie Verte Outdoor Swimming Pool

Prepared for:
DMG Consulting Limited
185 Roe Avenue
P.O. Box 194
Gander, NL A1V 1W6

Prepared by:
Dean Hopkins, CET, Principal
21 Mews Place, 2nd Floor
P.O. Box 13295, STN “A”
St. John’s, NL A1B 4A5

Project No.: 19-2669

Date: September 26, 2019
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Appendix “A” – Field Photos
1.0 INTRODUCTION

Dean Hopkins, CET of Crosbie Engineering Limited visited Baie Verte’s Outdoor Swimming Pool on Wednesday, September 25, 2019 to complete an electrical condition assessment. Two town representative’s Dean Giles and Owen Cake assisted in the assessment. This report describes deficiencies in the existing electrical systems as observed during the site visit and from discussions with maintenance personnel.

2.0 SERVICE AND DISTRIBUTION

2.1 Main Electrical Service

Electrical power is supplied to the building from a single phase aerial electrical service. The electrical service mast is RGS. The service is rated 100 Amp, 120/240V, single phase, 3 wire.

The electrical service entrance is comprised of a 100 Amp main disconnect switch, splitter and two panelboards.

The utility meter number is 575546.

Observations:
During the assessment, the following items were observed:
1. Is original to the building construction.
2. Electrical service does not have adequate spare capacity.
3. The service is in poor condition.
4. Panelboard directories were not available.
5. None of the distribution equipment was labeled.

2.2 120/240 V Distribution

The 120/240 V branch panelboards are approximately 45 years old and were manufactured by Bulldog Electric.

Observations:
During the assessment, the following items were observed:
1. The distribution is in poor condition. The distribution system is 45 years old.
2. The equipment is in a closet and not accessible.
3. There is not sufficient ample spare capacity.
4. There are not ample spare circuit breakers.
5. Some panels are no longer in production.
6. Some panel door hinges are damaged and panelboard cover screws are missing.
7. Panelboards do not have a ground bus installed.
8. Panelboards have no empty space for future circuits.
9. Panelboard directories are not present and not up to date.
10. The circuit breakers are approximately 45 years old and the trip accuracy is questionable.
11. Replacement circuit breakers are no longer available.
12. All power conductors should be colour coded as per CEC.
13. One of the panels had open spaces with exposed bus bars.

**Recommendations:**
Based on the above observations, we recommend the following:
1. It is recommended that all the 120/240V distribution and branch panelboards be replaced with new.
2. Relocate the wall in front of the electrical equipment to provide a minimum of 1 meter clearance.
3. Replacing existing damaged circuit breakers with breakers from obsolete panelboards is not a safe practice. If replacement breakers are not available, the panelboards should be replaced.
4. Provide blank covers as required in all panels.

**Estimated Cost:**
Estimated total material and labour cost is: $10,000.00

### 3.0 GROUNDING AND BONDING SYSTEM

The main electrical service grounding appears to be adequate. The main ground conductor is connected to ground rods. There is no external ground bus located in the Electrical Room.

**Observations**
During the assessment, the following items were observed:
1. The main service ground conductor wire size appears to meet the CEC.
2. No external ground bus in Electrical Room.
3. Exterior ground rods are installed however they are buried so an exact number is unknown.

**Recommendations:**
Based on the above observations, we recommend the following:
1. Install bonding conductors to all electrical equipment throughout the building.
2. Assess main service ground conductor. Make repairs as required.

**Estimated Cost:**
Estimated total material and labour cost is: $1,500.00
4.0 LIGHTING

4.1 Interior
Lighting fixtures are provided throughout the building as follows:

4.1.1 Change Rooms, Washrooms and Similar Areas
All areas have porcelain lampholders with compact fluorescent lamps. The fixtures are surface mounted.

Observations:
During the assessment, the following items were observed:
  1. Most fixtures are in poor condition.
  2. Most fixtures are approximately 45 years old
  3. Some fixtures are not working and may require new lamps.
  4. Lighting level in general is poor throughout.

4.2 Exterior

4.2.1 Building and Walkway Lighting
There is no exterior building lighting.

Observations:
During the assessment, the following items were observed:
  1. Exterior lighting levels is inadequate for such a facility.

Recommendations
Based on the above observations, we recommend the following:
  1. Install all new interior and exterior lighting fixtures with new energy efficient LED type fixtures.
  2. Additional fixtures to be installed as required to meet the IEEE light standards.

Estimated Cost
Estimated total material and labour cost is: $5,000.00

5.0 EMERGENCY AND EXIT LIGHTING SYSTEM

There is no Emergency lighting located throughout the building.

There are no Exit signs located throughout the building.
Electrical Assessment
Baie Verte Outdoor Swimming Pool

Observations
During the assessment, the following items were observed:

Emergency Lighting:
1. The number and location of remote heads is inadequate.
2. The emergency lighting illumination levels throughout the building do not meet applicable standards.
3. There are no emergency heads in washrooms or change rooms.
4. Lighting level does not meet 10 lux recommended by National Building Code.

Exit Signs:
1. Exit signs are not located in all areas required by National Building Code.

Recommendations:
Based on the above observations, we recommend the following:
1. Install new exit and emergency lighting throughout the building. All units to be weathertight.
2. Emergency lighting to adhere to the illumination levels outlined in the National Building Code.
3. Emergency lighting to be achieved using 4W, 12V LED lamps and battery packs. Battery packs will be sized for a minimum of 90 minute operation. Emergency lighting to illuminate the paths of egress.
4. Exit signs to be LED, Pictogram “Running Man” rated 120 Volt with 90 minute operation during power outage.
5. Single and double face exit signs to be provided to indicate access to exits. At each exit, the exit signs will be equipped with a long life light emitting diode, AC lamp and a DC lamp. The DC lamp will be powered from self-contained battery pack during power outages.

Estimated Cost:
Estimated total material and labour cost is: $5,000.00

6.0 HEATING SYSTEM

6.1 Main Heating System
There is no heating in the building.

Observations:
During the assessment, the following items were observed:
1. There is no heaters or thermostats installed.

Recommendations
Based on the above observations, we recommend the following:
1. Baseboard electric type heaters are recommended for areas with electrical equipment.
2. Provide programmable thermostats for all new heaters.
7.0 WIRING DEVICES

7.1 Receptacles
Receptacles are the U-ground type, rated 15 Amp, 120 Volt.

Observations:
During the assessment, the following items were observed:
1. There are an inadequate number of receptacles installed.
2. Some receptacles are old, cracked and worn.
3. Some receptacles do not have bonding conductors installed.
4. Some coverplates/screws are missing.
5. Extension cords used excessively.

7.2 Light Switches
Light switches are rated 15 Amp, 120 Volt.

Observations:
1. Some switches are old, cracked and worn.
2. Some switches do not have bonding conductor installed.
3. Some coverplates are missing.

Recommendations:
Based on the above observations, we recommend the following:
1. Replace all receptacles and toggle switches with new in all areas.
2. Provide new weathertight coverplates throughout.
3. Provide additional receptacles in areas as required.
4. Provide additional dedicated receptacles as needed.

Estimated Cost:
Estimated total material and labour cost is: $5,000.00

8.0 WIRING METHOD

Wiring method is mostly NMD 90.

Observations:
During the assessment, the following items were observed:
1. Some wiring junction boxes have covers removed.
2. Some of the wiring is run in an untidy fashion and is not adequately secured.
3. All power conductors should be colour coded as per CEC.
4. Some locations had surface mounted NMD90 wiring run and not protected.

**Recommendations:**
Based on the above observations, we recommend the following:
1. Provide additional straps for cable and conduit where needed.
2. Provide covers for all wiring junction boxes.
3. Label all junction box coverplates throughout.
4. Replace all surface mounted NMD90 wiring. All wiring to be concealed in walls and ceiling space.

**Estimated Cost:**
Estimated total material and labour cost is: $4,000.00
APPENDIX “A”
FIELD PHOTOS
Electrical Assessment
Baie Verte Outdoor Swimming Pool
APPENDIX C

ACUREN REPORT – POOL AREA
INTERIOR EXAMINATION REPORT

CLIENT: DMG
ACUREN JOB #: 135-19-10DMG001-0001
DATE: 05/12/2019

WORK LOCATION:
BAIE VERTE public swimming pool / NL POOL report

REPORT #: E-2019-DMG2-JM
WORK ORDER #: 

SIZE OF EXAMINATION AREA:
See subsequent accompanying pictures, denoting locations of 2D GPR data collection.

PRINT / DOCUMENTATION DETAILS:
no drawing included in this report

Concrete Type: Slab on grade/walls

SCOPE OF WORK
Client requesting GPR/RD examination for the purposes of:
Engineering GPR structural exam for voids.

EXAM INTERFERENCE:
5 inches off of any impassable object; no parallel data collected (corners, floors, ceiling, surface obstructions)

SUMMARY OF EXAMINATION:
Exam considered fair. After processing pool 2D GPR data it is the finding of this report that the majority of the pool deck is moderately underpinned/voided with localized areas of profound and severe voiding. The visual inspection revealed numerous areas of patching and repair and remediation would be difficult. Recommend reinforcement integrity exam if remediation is considered an option.

GROUND PENETRATING RADAR
2D Recon: Yes 3D Grid: No 3D Imaging: No

(If 'Yes' see 3D Imaging Report)

AVERAGE Z PENETRATION (DEPTH):
5"-6"
MAXIMUM Z PENETRATION (DEPTH):
10"-12"

ANTENNA: 1.6 GHz VELOCITY: 8.25 GAIN VALUE: 0-6
CONCRETE SETTINGS: Moderately dry

2D RECON NOTES:
Conducted thorough GPR data collection over entire pool deck area. In 2D GPR data slices:
Yellow box= moderate voiding  Blue box= profound voiding  Red box= severe voiding

RADIO DETECTION
Passive Exam: No Active Exam: No

(If 'No', Detail Below)

ACTIVE METHODS:
Induction Clamp: AC Adapter: Sonde: Direct Clipping: Induction Spill:

PASSIVE EXAM NOTES:
GPR structural exam only.

ACTIVE EXAM NOTES:
Structural GPR exam only.

Work Completed:

EXAMINATION SIGN-OFF
CUSTOMER REPRESENTATIVE ACUREN INSPECTOR

Eric Humphries 05/12/2019 Jason McFadden 05/12/2019

Print Name / Signature Date Print Name / Signature Date

Customer Representative signature certifies that above information is correct, including acceptance standard and materials used.

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EXAMINATION LAYOUT:

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- [ ] Rebar
- [ ] Wire Mesh
- [ ] Hydro: Red
- [ ] Other Services
- [ ] Unidentified
- [ ] Pre-Tension Wire
- [ ] Post-Tension Cable
- [ ] Structural Feature
- [ ] Other

**Legend**

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
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- PTC - Post Tension Cable

**Site Landmarks:** pool picture 1

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North ➔ Site Landmarks: pool picture 2

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Layout Notes:

- Site Landmarks: pool picture 3

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North ←
### INTERIOR EXAMINATION REPORT

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North ← Site Landmarks: slice190

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![Image of examination layout and GPR data]

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**Site Landmarks:** slice 191

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**Layout Notes:**

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**Site Landmarks:** slice192

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Site Landmarks: slice193

North ↓

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# INTERIOR EXAMINATION REPORT

**Report #: E-2019-DMG2-JM**

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**Limit of Exam:**

- North

**Site Landmarks:** slice194

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**Legend**

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Site Landmarks: slice195

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**Site Landmarks:** slice196

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**Layout Notes:**

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- PTC - Post Tension Cable

North ➔ Site Landmarks: slice197
**EXAMINATION LAYOUT:**

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North ➔ Site Landmarks: slice198

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INTERIOR EXAMINATION REPORT

Report #: E-2019-DMG2-JM

EXAMINATION LAYOUT:

GPR: X Coordinates: □ Rebar □ Wire Mesh □ Hydro: Red □ Other Services □ Unidentified □ Pre-Tension Wire □ Post-Tension Cable □ Structural Feature □ Other

GPR: Y Coordinates: □ Limit of Exam:

Unknowns: □ Layout Notes:

□ Rebar □ Wire Mesh □ Hydro: Red □ Other Services □ Unidentified □ Pre-Tension Wire □ Post-Tension Cable □ Structural Feature □ Other

LEGEND

R - Rebar H - Hydro WM - Wire Mesh OS - Other Services U - Unidentified PTW - Pre-Tension Wire PTC - Post Tension Cable

Site Landmarks: slice199

North ↓
INTERIOR EXAMINATION REPORT

Report #: E-2019-DMG2-JM

EXAMINATION LAYOUT:

GPR: X Coordinates: GPR: Y Coordinates: Left/Right
Unknowns: Limit of Exam:

[Checkboxes for Rebar, Wire Mesh, Hydro: Red, Other Services, Unidentified, Pre-Tension Wire, Post-Tension Cable, Structural Feature, Other]

Layout Notes:

LEGEND
R - Rebar          H - Hydro          WM - Wire Mesh       OS - Other Services  U - Unidentified  PTW - Pre-Tension Wire  PTC - Post Tension Cable

North    Site Landmarks: slice200
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**Site Landmarks:** slice201

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Site Landmarks: slice202

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North ➔ Site Landmarks: slice203
EXAMINATION LAYOUT:

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Unknowns:  Limit of Exam:

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Layout Notes:

LEGEND
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North ↑  Site Landmarks: slice204
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### LEGEND

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post Tension Cable

North ← Site Landmarks: slice205
**EXAMINATION LAYOUT:**

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**Unknowns:**
- Rebar
- Wire Mesh
- Hydro: Red
- Other Services
- Unidentified
- Pre-Tension Wire
- Post-Tension Cable
- Structural Feature
- Other

**Limit of Exam:**

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**LEGEND**

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post Tension Cable

**Site Landmarks:** slice206

North ↑

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INTERIOR EXAMINATION REPORT

Report #: E-2019-DMG2-JM

EXAMINATION LAYOUT:

GPR: X Coordinates:   GPR: Y Coordinates:   Down/Up
Unknowns:   Limit of Exam:

☐ Rebar  ☐ Wire Mesh  ☐ Hydro: Red  ☐ Other Services  ☐ Unidentified  ☐ Pre-Tension Wire  ☐ Post-Tension Cable  ☐ Structural Feature  ☐ Other

Layout Notes:

LEGEND

R - Rebar  H - Hydro  WM - Wire Mesh  OS - Other Services  U - Unidentified  PTW - Pre-Tension Wire  PTC - Post Tension Cable

North ↑ Site Landmarks: slice207

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**INTERIOR EXAMINATION REPORT**

**Report #: E-2019-DMG2-JM**

**EXAMINATION LAYOUT:**

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**GPR: X Coordinates:**

**GPR: Y Coordinates:**

**East/West**

**Legend:**

- **R** - Rebar
- **H** - Hydro
- **WM** - Wire Mesh
- **OS** - Other Services
- **U** - Unidentified
- **PTW** - Pre-Tension Wire
- **PTC** - Post-Tension Cable

**North**

**Site Landmarks:** slice208

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EXAMINATION LAYOUT:

GPR: X Coordinates:  GPR: Y Coordinates:  East/West

Unknons:  Limit of Exam:

- Rebar
- Wire Mesh
- Hydro: Red
- Other Services
- Unidentified
- Pre-Tension Wire
- Post-Tension Cable
- Structural Feature
- Other

Layout Notes:

LEGEND

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post Tension Cable

North  Site Landmarks: slice209
## EXAMINATION LAYOUT:

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- [ ] Rebar
- [ ] Wire Mesh
- [ ] Hydro: Red
- [ ] Other Services
- [ ] Unidentified
- [ ] Pre-Tension Wire
- [ ] Post-Tension Cable
- [ ] Structural Feature
- [ ] Other

### LEGEND

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post Tension Cable

### North

Site Landmarks: slice210

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**Layout Notes:**

**LEGEND**

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post Tension Cable

Site Landmarks: slice211
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- Rebar
- Wire Mesh
- Hydro: Red
- Other Services
- Unidentified
- Pre-Tension Wire
- Post-Tension Cable
- Structural Feature
- Other

**Layout Notes:**

**LEGEND**

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post Tension Cable

North

Site Landmarks: slice212
### EXAMINATION LAYOUT:

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<td>□ Structural Feature</td>
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#### LEGEND

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post Tension Cable

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**Site Landmarks:** slice213

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![Image of GPR scan with annotations]

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INTERIOR EXAMINATION REPORT

Report #: E-2019-DMG2-JM

EXAMINATION LAYOUT:

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- [ ] Rebar
- [ ] Wire Mesh
- [ ] Hydro: Red
- [ ] Other Services
- [ ] Unidentified
- [ ] Pre-Tension Wire
- [ ] Post-Tension Cable
- [ ] Structural Feature
- [ ] Other

Layout Notes:

LEGEND

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post Tension Cable

North ← Site Landmarks: slice214

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EXAMINATION LAYOUT:

GPR: X Coordinates: North/South
GPR: Y Coordinates:
Unkn0wns:

Limit of Exam:

Layout Notes:

- Rebar
- Wire Mesh
- Hydro: Red
- Other Services
- Unidentified
- Pre-Tension Wire
- Post-Tension Cable
- Structural Feature
- Other

LEGEND

R - Rebar
H - Hydro
WM - Wire Mesh
OS - Other Services
U - Unidentified
PTW - Pre-Tension Wire
PTC - Post Tension Cable

North ← Site Landmarks: slice216
### EXAMINATION LAYOUT:

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- Rebar
- Wire Mesh
- Hydro: Red
- Other Services
- Unidentified
- Pre-Tension Wire
- Post-Tension Cable
- Structural Feature
- Other

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**LEGEND**

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post Tension Cable

- North  
- Site Landmarks: slice217

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EXAMINATION LAYOUT:

GPR: X Coordinates: North/South        GPR: Y Coordinates: 

Unknowns:                               Limit of Exam: 

☐ Rebar     ☐ Wire Mesh    ☐ Hydro: Red        ☐ Other Services    ☐ Unidentified    ☐ Pre-Tension Wire    ☐ Post-Tension Cable    ☐ Structural Feature    ☐ Other

Layout Notes:

LEGEND

R - Rebar    H - Hydro    WM - Wire Mesh    OS - Other Services    U - Unidentified    PTW - Pre-Tension Wire    PTC - Post Tension Cable

North ← Site Landmarks: slice218
EXAMINATION LAYOUT:

GPR: X Coordinates: GPR: Y Coordinates: East/West
Unknowns: Limit of Exam:

- Rebar
- Wire Mesh
- Hydro: Red
- Other Services
- Unidentified
- Pre-Tension Wire
- Post-Tension Cable
- Structural Feature
- Other

Legend:
R - Rebar
H - Hydro
WM - Wire Mesh
OS - Other Services
U - Unidentified
PTW - Pre-Tension Wire
PTC - Post Tension Cable

North → Site Landmarks: slice219
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- [ ] Other Services
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- [ ] Structural Feature
- [ ] Other

**Legend:**

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post Tension Cable

**Site Landmarks:** slice220

North ↓ Site Landmarks: slice220
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<td>PTW - Pre-Tension Wire</td>
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Site Landmarks: slice221
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INTERIOR EXAMINATION REPORT

Report #: E-2019-DMG2-JM

EXAMINATION LAYOUT:

GPR: X Coordinates:       GPR: Y Coordinates: Down/Up
Unknowns:                  

Limit of Exam:

- Rebar
- Wire Mesh
- Hydro: Red
- Other Services
- Unidentified
- Pre-Tension Wire
- Post-Tension Cable
- Structural Feature
- Other

Layout Notes:

LEGEND
R - Rebar          H - Hydro WM - Wire Mesh    OS - Other Services         U - Unidentified          PTW - Pre-Tension Wire        PTC - Post Tension Cable

Other -

Site Landmarks: slice223

North
EXAMINATION LAYOUT:

GPR: X Coordinates: GPR: Y Coordinates: Down/Up

Unknwons: Limit of Exam:

- Rebar
- Wire Mesh
- Hydro: Red
- Other Services
- Unidentified
- Pre-Tension Wire
- Post-Tension Cable
- Structural Feature
- Other

Layout Notes:

LEGEND
R - Rebar H - Hydro WM - Wire Mesh OS - Other Services U - Unidentified PTW - Pre-Tension Wire PTC - Post Tension Cable

Site Landmarks: slice224

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EXAMINATION LAYOUT:

GPR: X Coordinates: GPR: Y Coordinates: Down/Up

Unknows: Limit of Exam:

☐ Rebar
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☐ Other

Layout Notes:

LEGEND
R - Rebar          H - Hydro WM - Wire Mesh    OS - Other Services         U - Unidentified          PTW - Pre-Tension Wire        PTC - Post Tension Cable

North

Site Landmarks: slice225

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The ACUREN Group uses electromagnetic equipment for the purpose of Non Destructive Testing, Damage Prevention, Geophysical Surveying and Imaging to assist in the requests of Customer or its representative. There are significant limitations in the equipment and the associated technology which may render results as inconclusive. Scanning services are not the equivalent of radiography (x-ray) and no promise is made or implied that these services represent anything other than a guide as to the location of buried or embedded objects within or below the survey material. Customer, its representatives, the builder and/or the owner are aware that the information produced by this service is only to be used as a guide and Customer accepts these limitations.

Due to the physical aspects of the Ground Penetrating Radar (GPR) equipment and the various limitations attributed with the technology used, the results can vary depending on several factors, including, but not limited to: inadequate working space (i.e. no GPR data can be collected within 4" of any vertical obstruction for concrete inspection and 14" for grade inspection), depth of signal penetration, extreme temperatures, subsurface distribution/geometry, classification, conductivity and moisture content of subsurface material, spatial placement of objects within, or obstructions within the survey area, such as reinforcing steel, steel mesh, metallic filings, conduits, metal fencing, catch basins, and railway lines etc.

All markings represent the inferred center point of the object and do not in any way designate the size of the object.

The ACUREN Group also employs a fixed frequency Utility Locating device which can be severely affected by competing magnetic fields from sources including, but not limited to: nearby-metal objects, utility or service congestion and electronic equipment. Results from this equipment may be distorted or unattainable. Magnetic or Electromagnetic fields which propagate from linear conductors from either passive or active induction, including, but not limited to reinforcing steel bars and nearby services or railway lines, can lead to false markings and inconclusive results. Direct access to ‘detectable’ services is required, for optimum results, with this equipment to generate (or induce) current to flow on specific services.

Unless the ACUREN Group has been contracted to do so, all services and utilities which are publicly owned, and located within the work area, must be marked by Customer, owner or another approved contractor.

It is understood and agreed by Customer that the implied positions of all marked objects are for the convenience of Customer only and does not relieve Customer or any other person or entity from liability for property damage or personal injury, including death, to any person as a result of the information provided by this survey.

Any ACUREN Group service call initiated by Customer shall expire and terminate upon the first occurrence of any of the following events: (a) 30 days from the date of service initiation; (b) the removal, disappearance or fading of field markings, or the discovery that field markings do not coincide with the Customer supplied report;

(c) site conditions, scope of work or limits of work have changed from the date of the ACUREN Group’s initial service was provided. In the case of any such termination, a new and independent agreement will be required prior to the ACUREN Group performing any further services.

The ACUREN Group expressly disclaims any and all warranties, express or implied, including without limitation any warranty of merchantability and/or fitness for a particular purpose.

Notice of any damage claims must be delivered in writing to the ACUREN Group within 48 hours of receipt of the services by the Customer. The ACUREN Group’s liability resulting from the provision of any services to Customer is limited to the amount charged for the specific service to which the liability relates. Under no circumstances will the ACUREN Group be liable for lost profits or special, indirect, incidental, punitive or consequential damages.

The invalidity of any provision or provisions herein contained shall not affect the other provisions, and these other provisions shall be construed in all respects as if the invalid provision or provisions were omitted.

Any agreement to provide services, which shall at all times include these terms and conditions, shall be governed by the laws of the jurisdiction where the services are provided to Customer.

These terms and conditions govern the relationship between the ACUREN Group and Customer concerning the provision of services and may not be amended or replaced by any terms or conditions of any purchase orders or other correspondence from the ACUREN Group to Company containing provisions which are different from those stated above.
APPENDIX D

ACUREN REPORT – DECK AREA
CLIENT: DMG

ACUREN JOB #: 135-19-10DMG001-0001

DATE: 05/12/2019

WORK LOCATION: BAIE VERTE public swimming pool / NL Deck report

REPORT #: E-2019-DMG1-JM

WORK ORDER #:

SIZE OF EXAMINATION AREA:
See subsequent accompanying pictures, denoting locations of 2D GPR data collection.

PRINT / DOCUMENTATION DETAILS:
no drawing included in this report

Concrete Type: Slab on grade

SCOPE OF WORK
Client requesting GPR/RD examination for the purposes of:
Engineering
GPR structural exam for voids.

EXAM INTERFERENCE:
5 inches off of any impassable object; no parallel data collected (corners, floors, ceiling, surface obstructions)

SUMMARY OF EXAMINATION:
Exam considered fair. After processing pool deck 2D GPR data it is the finding of this report that the majority of the pool deck is either moderately or profoundly underpinned/voided. Remediation will be difficult, removal/replacement is recommended.

GROUND PENETRATING RADAR

2D Recon: Yes  3D Grid: No  3D Imaging: No  
(If 'Yes' see 3D Imaging Report)

AVERAGE Z PENETRATION (DEPTH): 5"-6"
MAXIMUM Z PENETRATION (DEPTH): 10"-12"
ANTENNA: 1.6 GHz  VELOCITY: 8.25  GAIN VALUE: 0-6

CONCRETE SETTINGS: Moderately dry

2D RECON NOTES:
Conducted thorough GPR data collection over entire pool deck area. In 2D GPR data slices:
Yellow box=moderate voiding  Blue box= profound voiding  Red box= severe voiding

RADIO DETECTION
Passive Exam: No  Active Exam: No  
(If 'No', Detail Below)

ACTIVE METHODS:
Induction Clamp: AC Adapter: Sonde: Direct Clipping: Induction Spill:

PASSIVE EXAM NOTES:
GPR structural exam only.

ACTIVE EXAM NOTES:
Structural GPR exam only.

Work Completed: Yes

EXAMINATION SIGN-OFF
CUSTOMER REPRESENTATIVE: ACUREN INSPECTOR

Eric Humphries  05/12/2019  Jason McFadden  05/12/2019

Customer Representative signature certifies that above information is correct, including acceptance standard and materials used.

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EXAMINATION LAYOUT:

GPR: X Coordinates: North/South
GPR: Y Coordinates: East/West
Unknowns: Limit of Exam:

☐ Rebar
☐ Wire Mesh
☐ Hydro: Red
☐ Other Services
☐ Unidentified
☐ Pre-Tension Wire
☐ Post-Tension Cable
☐ Structural Feature
☐ Other

Layout Notes:

LEGEND
R - Rebar          H - Hydro          WM - Wire Mesh      OS - Other Services      U - Unidentified   PTW - Pre-Tension Wire   PTC - Post Tension Cable

North ➔ Site Landmarks: pool deck picture 1

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| Layout Notes:                  |

### LEGEND

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post Tension Cable

### Site Landmarks: pool deck picture 1
EXAMINATION LAYOUT:

GPR: X Coordinates: North/South  GPR: Y Coordinates: East/West
Unknowns:  Limit of Exam:

☐ Rebar  ☐ Wire Mesh  ☐ Hydro: Red  ☐ Other Services
☐ Unidentified  ☐ Pre-Tension Wire  ☐ Post-Tension Cable
☐ Structural Feature  ☐ Other

Layout Notes:

LEGEND
R - Rebar  H - Hydro  WM - Wire Mesh  OS - Other Services  U - Unidentified  PTW - Pre-Tension Wire  PTC - Post Tension Cable

North  Site Landmarks: pool deck picture 3

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INTERIOR EXAMINATION REPORT

Report #: E-2019-DMG1-JM

EXAMINATION LAYOUT:

GPR: X Coordinates: ____________________________ GPR: Y Coordinates: ____________________________ East/West

Unknovns: ____________________________ Limit of Exam: ____________________________

☐ Rebar
☐ Wire Mesh
☐ Hydro: Red
☐ Other Services
☐ Unidentified
☐ Pre-Tension Wire
☐ Post-Tension Cable
☐ Structural Feature
☐ Other

Layout Notes:

□ [ ]
□ [ ]
□ [ ]
□ [ ]
□ [ ]
□ [ ]
□ [ ]
□ [ ]
□ [ ]
□ [ ]

LEGEND
R - Rebar  H - Hydro  WM - Wire Mesh  OS - Other Services  U - Unidentified  PTW - Pre-Tension Wire  PTC - Post Tension Cable

North ← Site Landmarks: pool deck picture 5

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- [ ] Rebar
- [ ] Wire Mesh
- [ ] Hydro: Red
- [ ] Other Services
- [ ] Unidentified
- [ ] Pre-Tension Wire
- [ ] Post-Tension Cable
- [ ] Structural Feature
- [ ] Other

### LEGEND

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post Tension Cable
- Other -

**Site Landmarks:** slice168

---

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- Rebar
- Wire Mesh
- Hydro: Red
- Other Services
- Unidentified
- Pre-Tension Wire
- Post-Tension Cable
- Structural Feature
- Other

**Legend:**
- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post-Tension Cable

- Site Landmarks: slice169

---

**Layout Notes:**

---

*This document and all services and/or products provided in connection with this document and all future sales are subject to and shall be governed by the "Acuren Standard Service Terms" in effect when the services and/or products are ordered. Those terms are available at www.acuren.com/serviceterms, are expressly incorporated by reference into this document and shall supersede any conflicting terms in any other document (except where expressly agreed otherwise in that other document).*
INTERIOR EXAMINATION REPORT

Report #: E-2019-DMG1-JM

EXAMINATION LAYOUT:

GPR: X Coordinates: ________________
GPR: Y Coordinates: ________________
East/West

Unkowns: ________________

Limit of Exam: ________________

☐ Rebar
☐ Wire Mesh
☐ Hydro: Red
☐ Other Services
☐ Unidentified
☐ Pre-Tension Wire
☐ Post-Tension Cable
☐ Structural Feature
☐ Other

Layout Notes:

LEGEND

R - Rebar
H - Hydro
WM - Wire Mesh
OS - Other Services
U - Unidentified
PTW - Pre-Tension Wire
PTC - Post Tension Cable

Site Landmarks: slice170

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Interior Rev. 03-15
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#### Layout Notes:

- Rebar
- Wire Mesh
- Hydro: Red
- Other Services
- Unidentified
- Pre-Tension Wire
- Post-Tension Cable
- Structural Feature
- Other

### LEGEND

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post Tension Cable

- North
- Site Landmarks: slice172
INTERIOR EXAMINATION REPORT

Report #: E-2019-DMG1-JM

EXAMINATION LAYOUT:

GPR: X Coordinates: North/South  GPR: Y Coordinates: Limit of Exam:

Unkowns: Layout Notes:

☐ Rebar
☐ Wire Mesh
☐ Hydro: Red
☐ Other Services
☐ Unknown
☐ Pre-Tension Wire
☐ Post-Tension Cable
☐ Structural Feature
☐ Other

LEGEND

R - Rebar
H - Hydro
WM - Wire Mesh
OS - Other Services
U - Unidentified
PTW - Pre-Tension Wire
PTC - Post Tension Cable

North ➔ Site Landmarks: slice173
INTERIOR EXAMINATION REPORT

Report #: E-2019-DMG1-JM

EXAMINATION LAYOUT:

GPR: X Coordinates: North/South
GPR: Y Coordinates: Unknowns

Limit of Exam:

Layout Notes:

- Rebar
- Wire Mesh
- Hydro: Red
- Other Services
- Unidentified
- Pre-Tension Wire
- Post-Tension Cable
- Structural Feature
- Other

LEGEND

R - Rebar
H - Hydro
WM - Wire Mesh
OS - Other Services
U - Unidentified
PTW - Pre-Tension Wire
PTC - Post Tension Cable

Site Landmarks: slice174

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INTERIOR EXAMINATION REPORT

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- [ ] Rebar
- [ ] Wire Mesh
- [ ] Hydro: Red
- [ ] Other Services
- [ ] Unidentified
- [ ] Pre-Tension Wire
- [ ] Post-Tension Cable
- [ ] Structural Feature
- [ ] Other

Layout Notes:

LEGEND

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post Tension Cable

North  Site Landmarks: slice175

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**INTERIOR EXAMINATION REPORT**

**EXAMINATION LAYOUT:**

| GPR: X Coordinates: North/South | GPR: Y Coordinates: Unknowns: Limit of Exam: |
|--------------------------------|---------------------------------|-----------------|
|                                 |                                 |                 |

- Rebar
- Wire Mesh
- Hydro: Red
- Other Services
- Unidentified
- Pre-Tension Wire
- Post-Tension Cable
- Structural Feature
- Other

**Layout Notes:**

- Site Landmarks: slice 176

**LEGEND**

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**Layout Notes:**

Site Landmarks: slice 176

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<td>- Post-Tension Cable</td>
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<tr>
<td>- Structural Feature</td>
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<td>- Other</td>
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### LEGEND

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post Tension Cable

### Layout Notes:
- North ➔ Site Landmarks: slice177

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[Image of the examination layout and data]

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- Rebar
- Wire Mesh
- Hydro: Red
- Other Services
- Unidentified
- Pre-Tension Wire
- Post-Tension Cable
- Structural Feature
- Other

**Layout Notes:**

**LEGEND**

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post Tension Cable

<table>
<thead>
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<th>North</th>
<th>Site Landmarks: slice178</th>
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- Rebar
- Wire Mesh
- Hydro: Red
- Other Services
- Unidentified
- Pre-Tension Wire
- Post-Tension Cable
- Structural Feature
- Other

**LEGEND**

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post Tension Cable
- Other -

**Site Landmarks:** slice179

---

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**INTERIOR EXAMINATION REPORT**

**Report #: E-2019-DMG1-JM**

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**EXAMINATION LAYOUT:**

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<td>Limit of Exam:</td>
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- [ ] Rebar
- [ ] Wire Mesh
- [ ] Hydro: Red
- [ ] Other Services
- [ ] Unidentified
- [ ] Pre-Tension Wire
- [ ] Post-Tension Cable
- [ ] Structural Feature
- [ ] Other

---

**LEGEND**

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post Tension Cable
- Other -

Site Landmarks: slice180

---

**Layout Notes:**

---

**Diagram:**

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- Rebar
- Wire Mesh
- Hydro: Red
- Other Services
- Unidentified
- Pre-Tension Wire
- Post-Tension Cable
- Structural Feature
- Other

### LEGEND

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post Tension Cable
- Other

North  ➔  Site Landmarks: slice181
**EXAMINATION LAYOUT:**

GPR: X Coordinates:  |  GPR: Y Coordinates:  |  East/West
Unknowns:  |  Limit of Exam:

- Rebar
- Wire Mesh
- Hydro: Red
- Other Services
- Unidentified
- Pre-Tension Wire
- Post-Tension Cable
- Structural Feature
- Other

**Layout Notes:**

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<th>H - Hydro</th>
<th>WM - Wire Mesh</th>
<th>OS - Other Services</th>
<th>U - Unidentified</th>
<th>PTW - Pre-Tension Wire</th>
<th>PTC - Post Tension Cable</th>
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North  

Site Landmarks: slice183
EXAMINATION LAYOUT:

GPR: X Coordinates:  
GPR: Y Coordinates: East/West

Unkowns:  
Limit of Exam:

☐ Rebar  
☐ Wire Mesh  
☐ Hydro: Red  
☐ Other Services  
☐ Unidentified  
☐ Pre-Tension Wire  
☐ Post-Tension Cable  
☐ Structural Feature  
☐ Other

Layout Notes:

LEGEND

R - Rebar  
H - Hydro  
WM - Wire Mesh  
OS - Other Services  
U - Unidentified  
PTW - Pre-Tension Wire  
PTC - Post Tension Cable

North  
Site Landmarks: slice184
EXAMINATION LAYOUT:
GPR: X Coordinates: North/South  GPR: Y Coordinates:
Unknovns:
□ Rebar  □ Wire Mesh  □ Hydro: Red  □ Other Services  □ unidentified
□ Pre-Tension Wire  □ Post-Tension Cable  □ Structural Feature  □ Other

Layout Notes:

LEGEND
R - Rebar  H - Hydro  WM - Wire Mesh  OS - Other Services  U - unidentified  PTW - Pre-Tension Wire  PTC - Post Tension Cable

Site Landmarks: slice185
INTERIOR EXAMINATION REPORT

Report #: E-2019-DMG1-JM

EXAMINATION LAYOUT:

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- [ ] Rebar
- [ ] Wire Mesh
- [ ] Hydro: Red
- [ ] Other Services
- [ ] Unidentified
- [ ] Pre-Tension Wire
- [ ] Post-Tension Cable
- [ ] Structural Feature
- [ ] Other

<table>
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<th>Layout Notes:</th>
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</thead>
</table>

LEGEND

- [ ] R - Rebar
- [ ] H - Hydro
- [ ] WM - Wire Mesh
- [ ] OS - Other Services
- [ ] U - Unidentified
- [ ] PTW - Pre-Tension Wire
- [ ] PTC - Post Tension Cable

Site Landmarks: slice186

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- Rebar
- Wire Mesh
- Hydro: Red
- Other Services
- Unidentified
- Pre-Tension Wire
- Post-Tension Cable
- Structural Feature
- Other

**Legend**

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post Tension Cable

**Site Landmarks:** slice187
EXAMINATION LAYOUT:

GPR: X Coordinates: North/South  GPR: Y Coordinates:

Unkowns:  Limit of Exam:

- Rebar
- Wire Mesh
- Hydro: Red
- Other Services
- Unidentified
- Pre-Tension Wire
- Post-Tension Cable
- Structural Feature
- Other

Legend:

- R - Rebar
- H - Hydro
- WM - Wire Mesh
- OS - Other Services
- U - Unidentified
- PTW - Pre-Tension Wire
- PTC - Post Tension Cable
- Other

Site Landmarks: slice 188

Layout Notes:

This document and all services and/or products provided in connection with this document and all future sales are subject to and shall be governed by the "Acuren Standard Service Terms" in effect when the services and/or products are ordered. THOSE TERMS ARE AVAILABLE AT WWW.ACUREN.COM/SERVICETERMS, ARE EXPRESSLY INCORPORATED BY REFERENCE INTO THIS DOCUMENT AND SHALL SUPERSEDE ANY CONFLICTING TERMS IN ANY OTHER DOCUMENT (EXCEPT WHERE EXPRESSLY AGREED OTHERWISE IN THAT OTHER DOCUMENT).
The ACUREN Group uses electromagnetic equipment for the purpose of Non Destructive Testing, Damage Prevention, Geophysical Surveying and Imaging to assist in the requests of Customer or its representative. There are significant limitations in the equipment and the associated technology which may render results as inconclusive. Scanning services are not the equivalent of radiography (x-ray) and no promise is made or implied that these services represent anything other than a guide as to the location of buried or embedded objects within or below the survey material. Customer, its representatives, the builder and/or the owner are aware that the information produced by this service is only to be used as a guide and Customer accepts these limitations.

Due to the physical aspects of the Ground Penetrating Radar (GPR) equipment and the various limitations attributed with the technology used, the results can vary depending on several factors, including, but not limited to: inadequate working space (i.e. no GPR data can be collected within 4" of any vertical obstruction for concrete inspection and 14" for grade inspection), depth of signal penetration, extreme temperatures, subsurface distribution/geometry, classification, conductivity and moisture content of subsurface material, spatial placement of objects within, or obstructions within the survey area, such as reinforcing steel, steel mesh, metallic filings, conduits, metal fencing, catch basins, and railway lines etc.

All markings represent the inferred center point of the object and do not in any way designate the size of the object.

The ACUREN Group also employs a fixed frequency Utility Locating device which can be severely affected by competing magnetic fields from sources including, but not limited to: nearby-metal objects, utility or service congestion and electronic equipment. Results from this equipment may be distorted or unattainable. Magnetic or Electromagnetic fields which propagate from linear conductors from either passive or active induction, including, but not limited to reinforcing steel bars and nearby services or railway lines, can lead to false markings and inconclusive results. Direct access to ‘detectable’ services is required, for optimum results, with this equipment to generate (or induce) current to flow on specific services.

Unless the ACUREN Group has been contracted to do so, all services and utilities which are publicly owned, and located within the work area, must be marked by Customer, owner or another approved contractor.

It is understood and agreed by Customer that the implied positions of all marked objects are for the convenience of Customer only and does not relieve Customer or any other person or entity from liability for property damage or personal injury, including death, to any person as a result of the information provided by this survey.

Any ACUREN Group service call initiated by Customer shall expire and terminate upon the first occurrence of any of the following events: (a) 30 days from the date of service initiation; (b) the removal, disappearance or fading of field markings, or the discovery that field markings do not coincide with the Customer supplied report;

(c) site conditions, scope of work or limits of work have changed from the date of the ACUREN Group's initial service was provided. In the case of any such termination, a new and independent agreement will be required prior to the ACUREN Group performing any further services.

The ACUREN Group expressly disclaims any and all warranties, express or implied, including without limitation any warranty of merchantability and/or fitness for a particular purpose.

Notice of any damage claims must be delivered in writing to the ACUREN Group within 48 hours of receipt of the services by the Customer. The ACUREN Group's liability resulting from the provision of any services to Customer is limited to the amount charged for the specific service to which the liability relates. Under no circumstances will the ACUREN Group be liable for lost profits or special, indirect, incidental, punitive or consequential damages.

The invalidity of any provision or provisions herein contained shall not affect the other provisions, and these other provisions shall be construed in all respects as if the invalid provision or provisions were omitted.

Any agreement to provide services, which shall at all times include these terms and conditions, shall be governed by the laws of the jurisdiction where the services are provided to Customer.

These terms and conditions govern the relationship between the ACUREN Group and Customer concerning the provision of services and may not be amended or replaced by any terms or conditions of any purchase orders or other correspondence from the ACUREN Group to Company containing provisions which are different from those stated above.