

Schedule 18

Appendix 18J – Room Data Sheets

SECTION A. DEFINITIONS

A.1 General

A.1.1 Capitalized terms used in this Appendix 18J have the meanings given in Schedule 18 – Technical Requirements or the Design Build Agreement.

SECTION B. GENERAL REQUIREMENTS

B.1 Rooms

B.1.1 Design Builder is required to provide several rooms as part of its design. This schedule provides a summary of the requirements for these rooms, including:

- (a) location;
- (b) department zone;
- (c) area;
- (d) description;
- (e) activity/function;
- (f) dimensions;
- (g) adjacencies;
- (h) acoustics;
- (i) access;
- (j) finishes/materials;
- (k) doors and windows;
- (l) mill work, furniture equipment and accessories;
- (m) plumbing;
- (n) HVAC;
- (o) electrical; and
- (p) special requirements.

B.1.2 This list of rooms is not exhaustive and Design Builder may provided additional rooms as appropriate to its design

B.2 General Room Requirements by Area

B.2.1 The Areas have been broken up in the Table shown in Attachment 1 – Description of Non-Process Areas, to show the anticipated number of people that are anticipated

to work or use each area. During design of the Facility, these anticipated staff and services will need to be adjusted to match the layout.

MEETING ROOM

| | |
|---|---|
| LOCATION: | <i>Area V</i> |
| DEPARTMENT/ ZONE: | |
| PROGRAM AREA: | <i>Minimum 28 m²</i> |
| DESCRIPTION: | <i>A meeting room for staff meetings and presentations to accommodate 8 to 10 people.</i> |
| ACTIVITIES/ FUNCTION: | <i>0. Lectures & presentations. 1. Discussions & collaborative work.</i> |
| CRITICAL DIMENSIONS: | <i>NA</i> |
| ADJACENCIES: | <i>0. Proximity to building entrance. 1. Proximity to Biosolids Control Room 2. Proximity to lavatories.</i> |
| ACOUSTIC: | <i>STC 55 NC 30-35 RT60 0.7 s</i> |
| LOCATION/ ACCESS: | <i>Administration areas and control areas.</i> |
| SPECIAL REQUIREMENTS: | <i>0. Solar shading/ glare control required. 1. AV equipment (projector facility & screen). 2. All necessary requirements for a minimum of two 65" wall-mounted monitor (minimum resolution 3840 x 2160 4K UHD).</i> |
| FINISHES AND MATERIALS | |
| Floor: | <i>0. Resilient Sheet</i> |
| Walls: | <i>0. Wood panel or paint. 1. Acoustic separation required.</i> |
| Ceiling: | <i>Acoustic ceiling tile and/or gypsum wallboard.</i> |
| Wall Protection: | <i>NA.</i> |
| Other: | <i>Acoustic absorption required.</i> |
| DOORS & WINDOWS | |
| Interior Glazing: | |
| Exterior Glazing: | <i>Access to daylight, views to exterior, and operable windows.</i> |
| Door: | <i>Interior passage wood framed with full height glazing and automatic door closer.</i> |
| MILLWORK, FURNITURE, EQUIPMENT & ACCESSORIES | |
| Millwork & Furniture: | <i>0. Storage cabinetry (minimum 2400 mm long x 2100 mm high x 450 mm deep). 1. Computer desk with network connectivity. 2. Conference table with network connectivity (minimum 3.5 m long x 2 m wide) with 10 ergonomic office chairs.</i> |
| Fixtures and Equipment: | <i>0. Whiteboard (minimum 1200 mm H x 3000 mm W). 1. 2x Tackboards (minimum 1200 mm H x 1800 mm W). 2. Window blinds or solar shading devices.</i> |
| Accessories: | <i>NA</i> |

MEETING ROOM

| | | | | | | | | | | | |
|---|--|---------|--|---|--------------|------|--|-----|--|----------|--|
| PLUMBING | | | | | | | | | | | |
| | | | | | NA | | | | | | |
| HVAC | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Heated | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Air Conditioned | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Ventilated | | | | | Positi ve | | | | | Negative | |
| Service Air: | | | | | Yes | | | | | No | |
| Water | | Potable | | Reclaim ed | | Cold | | Hot | | | |
| <input type="checkbox"/> Other | | | | | | | | | | | |
| ELECTRICAL | | | | | | | | | | | |
| Classification: | | | | | | | | | | | |
| Lighting: | | | | <i>0. Comply with WWD Electrical Design Guide.</i> | | | | | | | |
| Power: | | | | <i>0. Convenience duplex receptacles (3 per wall). 1. Housekeeping duplex receptacles to code. 2. 2x 120 Volt quad receptacles at the conference table for A/V equipment. 3. 2x floor mounted duplex receptacles for table.</i> | | | | | | | |
| Communications: | | | | <i>0. Wireless LAN system. 1. 2x Hardwired communications outlets (4 data drops per outlet) at the conference table. 2. 2x Hardwired communications outlets (2 data drops per outlet) at the computer desk. 3. 1x Hardwired communications outlet (2 data drops per outlet) at the overhead projector.</i> | | | | | | | |

KITCHENETTE

| | |
|---|--|
| LOCATION: | <i>Area V and Area T</i> |
| DEPARTMENT/ ZONE: | |
| PROGRAM AREA: | <i>Minimum 20 m²</i> |
| DESCRIPTION: | <i>A space for plant staff working in the Biosolids Control Suite to eat their lunch and take breaks (2 people). The room should have a visual connection to the exterior and be provided with an abundance of natural light and fresh air. Also provide a space for staff in the Cambi facility for 3 people.</i> |
| ACTIVITIES/ FUNCTION: | <i>0. Food storage. 1. Simple food preparation. 2. Dining. 3. Staff breaks.</i> |
| CRITICAL DIMENSIONS: | |
| ADJACENCIES: | <i>0. In proximity to Biosolids Control Room. 1. In proximity to washroom(s). 2. In proximity to the THP.</i> |
| ACOUSTIC: | <i>STC 45 NC 35-40 RT60 0.8 s</i> |
| LOCATION/ ACCESS: | <i>Located in a clean space in Area V and T.</i> |
| SPECIAL REQUIREMENTS: | <i>0. Designed for up to 2 plant staff to prepare and eat their lunch concurrently during the lunch break. 1. Durable, easily cleaned finishes. 2. Hygiene facilities. 3. All necessary requirements for one (1) 42" wall-mounted monitor.</i> |
| FINISHES AND MATERIALS | |
| Floor: | <i>Resilient sheet flooring with rubber base.</i> |
| Walls: | <i>Gypsum wallboard painted or vinyl wall covering.</i> |
| Ceiling: | <i>Acoustic ceiling tile.</i> |
| Wall Protection: | <i>NA.</i> |
| Other: | <i>Clean/ hard surface finishes.</i> |
| DOORS & WINDOWS | |
| Interior Glazing: | <i>NA.</i> |
| Exterior Glazing: | <i>Access to daylight, views to exterior, and operable windows for user control of airflow required.</i> |
| Door: | <i>Half glazed solid wood core with PS frame.</i> |
| MILLWORK, FURNITURE, EQUIPMENT & ACCESSORIES | |
| Millwork & Furniture: | <i>0. Supply and install one table to comfortable seat 4 people. 1. Supply and install 4 chairs, suitable for use in a kitchen</i> |
| Fixtures and Equipment: | <i>0. Supply and install one refrigerator compliant with ENERGY STAR ratings. Stainless Steel – Fridge/Freezer – 32" 1. Supply and install one microwave compliant with ENERGY STAR ratings.- stainless steel 2. Supply and install a water cooler.</i> |

KITCHENETTE

| | | | | |
|---|--|------------------------------------|-------------------------------------|--|
| | 3. Upper and lower kitchen cabinets (raised panel) and countertops (2.4 m). 4. Stainless Steel double bowl sink and faucet with retractable head. 5. Countertop – solid surface | | | |
| Accessories: | Brushed aluminum hardware | | | |
| PLUMBING | | | | |
| | 0. One kitchen sink with low-flow fixtures. | | | |
| HVAC | | | | |
| <input checked="" type="checkbox"/> Heated | | | | |
| <input checked="" type="checkbox"/> Air Conditioned | | | | |
| <input checked="" type="checkbox"/> Ventilated | <input type="checkbox"/> | Positive | <input type="checkbox"/> | Negative |
| Service Air: | <input type="checkbox"/> | Yes | <input checked="" type="checkbox"/> | No |
| <input checked="" type="checkbox"/> Water | <input checked="" type="checkbox"/> Potable | <input type="checkbox"/> Reclaimed | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> Cold <input checked="" type="checkbox"/> Hot |
| <input type="checkbox"/> Other | | | | |
| ELECTRICAL | | | | |
| Classification: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Lighting: | 0. Occupancy sensors. 1. Min./avg. maintained level of 350/400 LUX. | | | |
| Power: | 0. Convenience Receptacles 1. Housekeeping receptacles. 2. Dedicated 20A T-Type (5-20R) receptacles for one full size fridge, one microwave, and any other kitchen equipment to be running concurrently. | | | |
| Communications: | 0. Wireless LAN system 1. 1x data outlets (4 drops per outlet). | | | |

BIOSOLIDS CONTROL ROOM

| | |
|---|---|
| LOCATION: | <i>Area V</i> |
| DEPARTMENT/ ZONE: | <i>Operations</i> |
| PROGRAM AREA: | <i>Minimum 114 m²</i> |
| DESCRIPTION: | <i>The room is the back-up control center for all plant operations, ancillary processes, building mechanical systems, electrical systems, and security.</i> |
| ACTIVITIES/ FUNCTION: | <ul style="list-style-type: none"> <i>0. Plant operation control.</i> <i>1. Emergency response.</i> <i>2. Informal meetings, etc.</i> |
| CRITICAL DIMENSIONS: | |
| ADJACENCIES: | <ul style="list-style-type: none"> <i>0. Proximity to meeting room.</i> <i>1. Proximity to kitchenette.</i> <i>2. Proximity to washrooms.</i> <i>3. Proximity to server room.</i> <i>4. Proximity to building entrance.</i> <i>5. Universal washroom, locker and shower</i> <i>6. Proximity to Ferrier Road Entrance</i> |
| ACOUSTIC: | <ul style="list-style-type: none"> <i>STC 50Ki</i> <i>NC 30-40</i> <i>RT60 0.7 s</i> |
| LOCATION/ ACCESS: | <i>Locate on main level of building.</i> |
| SPECIAL REQUIREMENTS: | <ul style="list-style-type: none"> <i>0. Controls for plant operations in accordance with Appendix 18Q – Control Room Requirements.</i> <i>1. No raised floor or poles to accommodate electrical services allowed.</i> <i>2. In-floor raceways for power and communications.</i> <i>3. Personal mail slots.</i> |
| FINISHES AND MATERIALS | |
| Floor: | <i>Resilient anti-static sheet flooring.</i> |
| Walls: | <i>Paint.</i> |
| Ceiling: | <i>Acoustic ceiling tile.</i> |
| Wall Protection: | <i>NA.</i> |
| Other: | <i>NA.</i> |
| DOORS & WINDOWS | |
| Interior Glazing: | <i>Full height floor to ceiling glazed walls on two sides of the room</i> |
| Exterior Glazing: | <i>Glare free day-lighting and careful positioning of monitors required to prevent screen reflections. Borrowed light to avoid glare. Exterior views.</i> |
| Door: | <ul style="list-style-type: none"> <i>0. Double glazed door.</i> <i>1. Secured card reader access.</i> |
| MILLWORK, FURNITURE, EQUIPMENT & ACCESSORIES | |

BIOSOLIDS CONTROL ROOM

| | | | | | |
|---|---|------------------------------------|-------------------------------|------------------------------|--|
| Millwork & Furniture: | <i>0. In accordance with Appendix 18Q – Control Room Requirements.</i> | | | | |
| Fixtures and Equipment: | <i>0. Dedicated radio charging counter for cellphones and radios. 1. Fire alarm workstation with annunciator and control panel in a visible location of control workstations. 2. All other fixtures and equipment in accordance with Appendix 18Q – Control Room Requirements.</i> | | | | |
| Accessories: | NA. | | | | |
| PLUMBING | | | | | |
| | NA. | | | | |
| HVAC | | | | | |
| <input checked="" type="checkbox"/> Heated | | | | | |
| <input checked="" type="checkbox"/> Air Conditioned | | | | | |
| <input checked="" type="checkbox"/> Ventilated | <input type="checkbox"/> Positive | <input type="checkbox"/> Negative | | | |
| Service Air: | <input type="checkbox"/> Yes | <input type="checkbox"/> No | | | |
| <input type="checkbox"/> Water | <input type="checkbox"/> Potable | <input type="checkbox"/> Reclaimed | <input type="checkbox"/> Cold | <input type="checkbox"/> Hot | |
| <input type="checkbox"/> Other | | | | | |
| ELECTRICAL | | | | | |
| Classification: | | | | | |
| Lighting: | <i>0. Comply with WWD Electrical Design Guide.</i> | | | | |
| Power: | <i>0. Convenience receptacles (3x duplex receptacles per wall) at counters and work surfaces. 1. Housekeeping receptacles to code. 2. All workstation, security, fire alarm system, and UPS receptacles on standby power. 50% of the workstation, security and fire alarm system receptacles on UPS. 3. 2x quad receptacles per control console; 1 on standby power and 1 on UPS. 4. 2x quad receptacles at printers/copiers; 1 on standby power and 1 on UPS. 5. 2x quad receptacles at CCTV screen; 1 on standby power and 1 on UPS. 6. 6x receptacles with standby power at charging counter. 7. Receptacles for normal power, standby power and UPS power to be of different colors. 8. Power for wall mounted whiteboard.</i> | | | | |
| Communications: | <i>0. 1x Hard wired communications outlet (2 data drops per outlet) on ceiling for wireless LAN system. 1. 3x Hard wired communications outlets (4 data drops per outlet) per control console. 2. 3x Hard wired wall mounted communications outlets (4 data drops per outlet) for printers/copiers. 3. 2x Hard wired communications outlets (2 data drops per outlet) at dedicated radio charging counter. 4. 2x Hard wired communications outlets (2 data drops per outlet) at CCTV monitoring screen. 5. Different colors for data cables required for different network systems. 6. 1x Hard wired communications outlet (2 data drops per outlet) for white board.</i> | | | | |

SERVER ROOM

| | |
|---|---|
| LOCATION: | Area V |
| DEPARTMENT/ ZONE: | IT and automation group |
| PROGRAM AREA: | Minimum 25 m ² |
| DESCRIPTION: | Room for PCS, network, and IT infrastructure. |
| ACTIVITIES/ FUNCTION: | 0. Main location for PCS servers & IT infrastructure. 1. Maintenance of computer equipment. |
| CRITICAL DIMENSIONS: | NA. |
| ADJACENCIES: | 0. No plumbed areas such as washrooms, kitchens, laboratories, mechanical rooms, or liquid bearing pipes, equipment, or utilities allowed above this room. 1. Proximity to Biosolids Control Room. |
| ACOUSTIC: | STC 55 NC N/A RT60 N/A |
| LOCATION/ ACCESS: | Secured access from the control room. |
| SPECIAL REQUIREMENTS: | 0. Comply with Appendix 18Q – Control Room Requirements. 1. Server equipment, racks and cabinets. 2. Separate HVAC system required. 3. No raised floor or poles to accommodate electrical services allowed. 4. 2 hour fire rating. 5. In floor raceways for power requirements to server racks. 6. Overhead cable tray for communication cabling. 7. Air purification system. 8. Seal the room with an impermeable membrane, or equivalent means, to prevent the ingress of water through the ceilings and walls 9. Slope floors to a low point in the room and locate one moisture detector in the low point to monitor for the presence of moisture and connect the detector to the PCS. |
| FINISHES AND MATERIALS | |
| Floor: | Antistatic sheet flooring. |
| Walls: | Paint. |
| Ceiling: | Painted exposed structure. |
| Wall Protection: | NA. |
| Other: | NA. |
| DOORS & WINDOWS | |
| Interior Glazing: | NA. |
| Exterior Glazing: | NA. |
| Door: | 0. Double swing door with secure card access. |
| MILLWORK, FURNITURE, EQUIPMENT & ACCESSORIES | |

SERVER ROOM

| | | | | | | |
|---|---|------------------------------------|-------------------------------|------------------------------|--|--|
| Millwork & Furniture: | <i>Work bench (minimum 1800 mm long).</i> | | | | | |
| Fixtures and Equipment: | 0. Server racks. 1. Free standing storage cabinet (minimum 1.5 m wide x 2 m high x 400 mm deep) for computer equipment. 2. Rackmount computer(s) for terminal access to servers. | | | | | |
| Accessories: | NA. | | | | | |
| PLUMBING | | | | | | |
| | NA | | | | | |
| HVAC | | | | | | |
| <input checked="" type="checkbox"/> Heated | | | | | | |
| <input checked="" type="checkbox"/> Air Conditioned | | | | | | |
| <input checked="" type="checkbox"/> Ventilated | <input type="checkbox"/> Positive | <input type="checkbox"/> Negative | | | | |
| Service Air: | <input type="checkbox"/> Yes | <input type="checkbox"/> No | | | | |
| <input type="checkbox"/> Water | <input type="checkbox"/> Potable | <input type="checkbox"/> Reclaimed | <input type="checkbox"/> Cold | <input type="checkbox"/> Hot | | |
| Other | 0. Natural ventilation required in case of disaster, equipped with louver. 1. 18 to 22°C temperature range. | | | | | |
| ELECTRICAL | | | | | | |
| Classification: | | | | | | |
| Lighting: | 0. <i>Comply with WWD Electrical Design Guide.</i> | | | | | |
| Power: | 0. Convenience receptacles around room. 1. Double duplex receptacle (1 on UPS power and 1 on normal power) at work bench. 2. Provide sufficient power for all equipment in racks plus 50% spare with a minimum of two 20A locking receptacles per rack. Each rack to have power distribution within the rack. | | | | | |
| Communications: | 0. Wireless LAN system. 1. 2x Hardwired communications outlets (1 data drop for each of the plant networks per outlet) above work bench. | | | | | |

CORRIDORS AND STAIRS (TYP.)

| | |
|----------------------------------|---|
| LOCATION: | <i>All areas as required</i> |
| DEPARTMENT/ ZONE: | |
| PROGRAM AREA: | |
| DESCRIPTION: | |
| ACTIVITIES/ FUNCTION: | |
| CRITICAL DIMENSIONS: | <i>Corridors: minimum 2000 mm wide Equipment service stairs: minimum 900 mm wide All other stairs: minimum 1200 mm wide</i> |
| ADJACENCIES: | |
| ACOUSTIC: | <i>STC 60 NC 40-45 RT60 1.0 s</i> |
| LOCATION/ ACCESS: | <i>Vertical circulation and access points.</i> |
| SPECIAL REQUIREMENTS: | <i>1. Housekeeping Receptacles 2. CCTV Cameras 3. Convenience Receptacles</i> |
| FINISHES AND MATERIALS | |
| Floor: | <i>Slip resistant finish epoxy coating.</i> |
| Walls: | <i>Painted.</i> |
| Ceiling: | <i>Acoustic ceiling tile.</i> |
| Wall Protection: | <i>NA.</i> |
| Other: | <i>NA.</i> |
| DOORS & WINDOWS | |
| Interior Glazing: | <i>Provide glazing in door or sidelights</i> |
| Exterior Glazing: | <i>Provide if applicable</i> |
| Door: | <i>Fire rated HM w/ glazing.</i> |
| Window Coverings: | <i>NA.</i> |
| Window Remarks: | <i>NA.</i> |
| PLUMBING | |
| | <i>Floor Drains as required.</i> |
| HVAC | |
| | <i>Heated Ventilated</i> |
| ELECTRICAL | |
| | <i>Comply with WWD Electrical Design Guide.</i> |

ELECTRICAL ROOM

| | | | |
|---|---|-------------------------------------|--|
| LOCATION: | | <i>All areas as required</i> | |
| DEPARTMENT/ ZONE: | <i>Throughout</i> | | |
| PROGRAM AREA: | | | |
| DESCRIPTION: | | | |
| ACTIVITIES/ FUNCTION: | | | |
| CRITICAL DIMENSIONS: | <i>NA.</i> | | |
| ADJACENCIES: | | | |
| ACOUSTIC: | <i>STC 60 NC N/A RT60 N/A</i> | | |
| LOCATION/ ACCESS: | | | |
| SPECIAL REQUIREMENTS: | <ol style="list-style-type: none"> <i>1. No plumbing services, drains, or fluids permitted in electrical rooms</i> <i>2. Electrical shall not be located below any fluid containing structures or piping.</i> <i>3. 1hr fire rating for room.</i> <i>4. Air purification system.</i> <i>5. Cannot be a through- way to other parts of the plant.</i> | | |
| FINISHES AND MATERIALS | | | |
| Floor: | <i>Anti-static non-conductive Sealant</i> | | |
| Walls: | <i>Painted</i> | | |
| Ceiling: | <i>Painted exposed structure.</i> | | |
| Wall Protection: | | | |
| Other: | <i>Refer to HVAC for complete mechanical requirements.</i> | | |
| DOORS & WINDOWS | | | |
| Interior Glazing: | <i>NA.</i> | | |
| Exterior Glazing: | <i>NA</i> | | |
| Door: | <ol style="list-style-type: none"> <i>0. Size to suit largest size of equipment to accommodate in the room (in upright position).</i> <i>1. Typical card access supervised & secured doors (time controlled)</i> | | |
| Window Coverings: | <i>NA</i> | | |
| Window Remarks: | <i>NA</i> | | |
| HVAC | | | |
| <input checked="" type="checkbox"/> Heated | | | |
| <input checked="" type="checkbox"/> Air Conditioned | | | |
| <input checked="" type="checkbox"/> Ventilated | <input type="checkbox"/> Positive | <input type="checkbox"/> | <input type="checkbox"/> Negative |
| Service Air: | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> | <input type="checkbox"/> No |
| Water | <input type="checkbox"/> Potable | <input type="checkbox"/> Reclaimed | <input type="checkbox"/> Cold <input type="checkbox"/> Hot |
| Other | | | |
| ELECTRICAL | | | |
| Gas detection | <input type="checkbox"/> Required | <input checked="" type="checkbox"/> | <input type="checkbox"/> Not-required |
| Lighting: | <i>0. Comply with WWD Electrical Design Guide.</i> | | |
| Power: | <ol style="list-style-type: none"> <i>0. 120V convenience receptacles on normal power.</i> <i>1. Housekeeping receptacles.</i> <i>2. Provide two additional receptacles on opposite walls on UPS power.</i> | | |
| Communications: | <ol style="list-style-type: none"> <i>0. Card Access for entrances</i> <i>1. 2 x data outlets (4 data drops per outlet)</i> | | |

JANITOR ROOM

| | |
|--|---|
| LOCATION: | <i>All Areas Throughout</i> |
| DEPARTMENT/ ZONE: | <i>Process areas.</i> |
| PROGRAM AREA: | <i>Minimum 8 m²</i> |
| DESCRIPTION: | |
| ACTIVITIES/ FUNCTION: | |
| CRITICAL DIMENSIONS: | <i>NA.</i> |
| ADJACENCIES: | |
| ACOUSTIC: | <i>NA.</i> |
| LOCATION/ ACCESS: | <i>Minimum of 1 janitor room on each level of each building</i> |
| SPECIAL REQUIREMENTS: | <i>NA.</i> |
| FINISHES AND MATERIALS | |
| Floor: | <i>Sheet vinyl with base</i> |
| Walls: | <i>Concrete masonry unit of Sealed Concrete</i> |
| Ceiling: | <i>Exposed and Painted</i> |
| Wall Protection: | |
| Other: | |
| DOORS & WINDOWS | |
| Interior Glazing: | <i>NA.</i> |
| Exterior Glazing: | <i>NA.</i> |
| Door: | <i>Single door</i> |
| Window Coverings: | <i>NA.</i> |
| Window Remarks: | <i>NA.</i> |
| MILLWORK, FURNITURE, EQUIPMENT & ACCESSORIES | |
| Millwork & Furniture: | <i>0. Provide Shelving for Storage</i> |
| Fixtures and Equipment: | <i>NA.</i> |
| Accessories: | <i>NA.</i> |
| PLUMBING | |
| <i>0. Provide Mop Sink – stainless steel. 1. Floor Drain 2. Telescopic shower head</i> | |
| HVAC | |

JANITOR ROOM

| | | | | | | | | | |
|---|---|---|-----------------------------------|--|--|---|--|--|--|
| <input type="checkbox"/> Heated | | | | | | | | | |
| <input type="checkbox"/> Air Conditioned | | | | | | | | | |
| <input type="checkbox"/> Ventilated | | | <input type="checkbox"/> Positive | | | <input type="checkbox"/> Negative | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Service Air: | | <input type="checkbox"/> Yes | | | <input type="checkbox"/> No | | | | |
| <input checked="" type="checkbox"/> Water | <input checked="" type="checkbox"/> Potable | <input type="checkbox"/> Reclaimed | | | <input checked="" type="checkbox"/> Cold | <input checked="" type="checkbox"/> Hot | | | |
| <input type="checkbox"/> Other | | | | | | | | | |
| | | | | | | | | | |
| ELECTRICAL | | | | | | | | | |
| Lighting: | | 0. Comply with WWD Electrical Design Guide. | | | | | | | |
| Power: | | 0. 1 x Duplex Receptacle with ground-fault circuit interrupter and additional outlet for equipment charging | | | | | | | |
| Communications: | | NA. | | | | | | | |

EXTERIOR LOADING AREA

| | | | |
|----------------------------------|--|--------------------------|--|
| LOCATION: | | <i>Areas as Required</i> | |
| DEPARTMENT/ ZONE: | | | |
| PROGRAM AREA: | | | |
| DESCRIPTION: | | | |
| ACTIVITIES/ FUNCTION: | | | |
| CRITICAL DIMENSIONS: | for loading a box truck or flat bed semi trailer | | |
| ADJACENCIES: | | | |
| ACOUSTIC: | NA. | | |
| LOCATION/ ACCESS: | <i>Catch Basin</i> | | |
| SPECIAL REQUIREMENTS: | <ol style="list-style-type: none"> 0. Floor drains and oil interceptor. 1. Localized sloped flooring at drain locations. 2. Dock leveler. 3. Bumper. 4. Bollards. 5. Catch basin 6. Need leveling bay ramp for Ostara. For chemical need tanker bay next to building 7. Exterior loading bay for supersacks at Pretreatment building with Ostara.. | | |
| FINISHES AND MATERIALS | | | |
| Floor: | <i>Exterior.</i> | | |
| Walls: | <i>Exterior.</i> | | |
| Ceiling: | <i>Exterior.</i> | | |
| Wall Protection: | <i>Exterior.</i> | | |
| Other: | NA. | | |
| DOORS & WINDOWS | | | |
| Interior Glazing: | NA. | | |
| Exterior Glazing: | NA. | | |
| Door: | NA. | | |
| Window Coverings: | NA. | | |
| Window Remarks: | NA. | | |
| PLUMBING | | | |
| | <i>Catch Basin Oil Separation</i> | | |
| ELECTRICAL | | | |
| Classification: | | | |
| Lighting: | 0. Comply with WWD Electrical Design Guide for outdoor process areas. | | |
| Power: | 0. Weatherproof 120V Convenience Receptacles. | | |
| Communications: | NA. | | |

PARTS DELIVERY AND STORAGE AREA

| | | | |
|----------------------------------|---|--|--|
| LOCATION: | <i>Dewatering Building and Pretreatment Building (Areas T and V)</i> | | |
| DEPARTMENT/ ZONE: | | | |
| PROGRAM AREA: | <i>Minimum 100 m2</i> | | |
| DESCRIPTION: | | | |
| ACTIVITIES/ FUNCTION: | <i>Include gas or electric forklift, complete with charging stations and meeting electrical classification.</i> | | |
| CRITICAL DIMENSIONS: | <i>More for parts delivery – need a delivery bay -12 ft high by 12ft wide. And man door.</i> | | |
| ADJACENCIES: | | | |
| ACOUSTIC: | <i>NA.</i> | | |
| LOCATION/ ACCESS: | <i>Catch Basin</i> | | |
| SPECIAL REQUIREMENTS: | <i>0. Floor drains and oil interceptor. 1. Localized sloped flooring at drain locations. 2. Catch basin complete with trench drain. 3. Heat trace in floor for melting snow at truck entrance, extending a minimum 1 m from door exterior. 4. 5 tonne 10 m long monorail for lifting equipment off/on delivery truck.</i> | | |
| FINISHES AND MATERIALS | | | |
| Floor: | <i>Slip resistant epoxy.</i> | | |
| Walls: | <i>Concrete masonry unit or painted concrete.</i> | | |
| Ceiling: | <i>Exposed structure painted.</i> | | |
| Wall Protection: | <i>Bollards.</i> | | |
| Other: | <i>NA.</i> | | |
| DOORS & WINDOWS | | | |
| Interior Glazing: | <i>NA.</i> | | |
| Exterior Glazing: | <i>In overhead door.</i> | | |
| Door: | <i>Exterior overhead door. Hall metal door.</i> | | |
| Window Coverings: | <i>NA.</i> | | |
| Window Remarks: | <i>NA.</i> | | |
| PLUMBING | | | |
| | <i>Catch Basin Oil Separation</i> | | |
| ELECTRICAL | | | |
| Classification: | | | |
| Lighting: | <i>0. Comply with WWD Electrical Design Guide for indoor process areas.</i> | | |
| Power: | <i>0. 120V Convenience Receptacles. 1. 240 V welding receptacles 2. Housekeeping receptacles.</i> | | |
| Communications: | <i>NA.</i> | | |

PARTS STORAGE AREA

| | | | |
|----------------------------------|---|-----------------------------|--|
| LOCATION: | | <i>Areas N, D, J, and K</i> | |
| DEPARTMENT/ ZONE: | | | |
| PROGRAM AREA: | <i>Minimum 30 m2</i> | | |
| DESCRIPTION: | | | |
| ACTIVITIES/ FUNCTION: | | | |
| CRITICAL DIMENSIONS: | | | |
| ADJACENCIES: | | | |
| ACOUSTIC: | <i>NA.</i> | | |
| LOCATION/ ACCESS: | | | |
| SPECIAL REQUIREMENTS: | <i>3. Localized sloped flooring at drain locations. 4. Include 5 m length of storage shelves with heavy duty rating.</i> | | |
| FINISHES AND MATERIALS | | | |
| Floor: | <i>Slip resistant epoxy.</i> | | |
| Walls: | <i>Concrete masonry unit or painted concrete.</i> | | |
| Ceiling: | <i>Exposed structure painted.</i> | | |
| Wall Protection: | | | |
| Other: | <i>NA.</i> | | |
| DOORS & WINDOWS | | | |
| Interior Glazing: | <i>NA.</i> | | |
| Exterior Glazing: | <i>INA</i> | | |
| Door: | <i>Hall metal door.</i> | | |
| Window Coverings: | <i>NA.</i> | | |
| Window Remarks: | <i>NA.</i> | | |
| PLUMBING | | | |
| | <i>NA</i> | | |
| ELECTRICAL | | | |
| Classification: | | | |
| Lighting: | <i>5. Comply with WWD Electrical Design Guide for indoor process areas.</i> | | |
| Power: | <i>6. 120V Convenience Receptacles.</i> | | |
| Communications: | <i>NA.</i> | | |

UNIVERSAL WASHROOM

| | |
|---|---|
| LOCATION: <i>Throughout as Required</i> | |
| DEPARTMENT/ ZONE: | |
| PROGRAM AREA: | <i>Minimum 6 m²</i> |
| DESCRIPTION: | <i>Washroom facilities</i> |
| ACTIVITIES/ FUNCTION: | <i>Washroom facilities.</i> |
| OCCUPANCY: | |
| ADJACENCIES: | <i>Staff rooms. Storage rooms or process areas.</i> |
| ACOUSTIC: | <i>STC 45 NC 40-46 RT60 N/A</i> |
| LOCATION/ ACCESS: | |
| SPECIAL REQUIREMENTS: | <i>0. Designed to Manitoba Building Code.</i> |
| | |
| FINISHES AND MATERIALS | |
| Floor: | <i>Sheet flooring with flash cove base.</i> |
| Walls: | <i>Ceramic tile behind fixtures, painted gypsum wallboard elsewhere.</i> |
| Ceiling: | <i>Painted gypsum wallboard.</i> |
| Wall Protection: | <i>NA.</i> |
| Other: | <i>Durable, hard surface materials.</i> |
| | |
| DOORS & WINDOWS | |
| Interior Glazing: | <i>NA.</i> |
| Exterior Glazing: | <i>NA.</i> |
| Door: | <i>NA.</i> |
| Window Coverings: | <i>NA.</i> |
| Window Remarks: | <i>NA.</i> |
| | |
| MILLWORK, FURNITURE, EQUIPMENT & ACCESSORIES | |
| Millwork & Furniture: | <i>NA.</i> |
| Fixtures and Equipment: | <i>0. Coat hook. 1. Mirror. 2. Paper and soap dispensers. 3. Hand dryer. 4. Lockable storage cabinet for sanitary supplies.</i> |
| Accessories: | <i>NA.</i> |
| | |
| PLUMBING | |
| | <i>0. Sink (minimum 1) 1. Trap primed floor drain. 2. Toilet (minimum 1)</i> |
| | |

UNIVERSAL WASHROOM

| | | | | | | | | | | |
|-------------------------------------|-----------------|--|---------|-------------------------------------|-----------|-------------------------------------|--------------------------|-------------------------------------|-----|--|
| HVAC | | | | | | | | | | |
| <input checked="" type="checkbox"/> | Heated | | | | | | | | | |
| <input type="checkbox"/> | Air Conditioned | | | | | | | | | |
| <input checked="" type="checkbox"/> | Ventilated | | | <input type="checkbox"/> | Positive | | <input type="checkbox"/> | Negative | | |
| <input type="checkbox"/> | | | | | | | | | | |
| Service Air: | | <input type="checkbox"/> | Yes | | | <input type="checkbox"/> | No | | | |
| <input checked="" type="checkbox"/> | Water | <input checked="" type="checkbox"/> | Potable | <input checked="" type="checkbox"/> | Reclaimed | <input checked="" type="checkbox"/> | Cold | <input checked="" type="checkbox"/> | Hot | |
| <input type="checkbox"/> | Other | | | | | | | | | |
| ELECTRICAL | | | | | | | | | | |
| Classification: | | <input type="checkbox"/> | | | | <input type="checkbox"/> | | | | |
| Lighting: | | <i>0. Comply with WWD Electrical Design Guide.</i> | | | | | | | | |
| Power: | | <i>0. 120 Volt GFI receptacle at sink. 1. Housekeeping receptacles. 2. 20A 120V 1ph Power for hand dryer required.</i> | | | | | | | | |
| Communications: | | NA. | | | | | | | | |

FEMALE STAFF WASHROOM

| | |
|---|---|
| LOCATION: | Area V |
| DEPARTMENT/ ZONE: | |
| PROGRAM AREA: | Minimum 100 m ² |
| DESCRIPTION: | Washroom facilities for 12 female staff. [NTD: Determine number of staff in Parcel B] |
| ACTIVITIES/ FUNCTION: | Washroom facilities. |
| CRITICAL DIMENSIONS: | NA. |
| ADJACENCIES: | Work areas. |
| ACOUSTIC: | STC 45 NC 40-45 RT60 N/A |
| LOCATION/ ACCESS: | 1. Accessed from corridor. |
| SPECIAL REQUIREMENTS: | 0. Designed to Manitoba Building Code. 1. Door-less washrooms and touch-less fixtures 2. Low flow faucets 3. Potable water for toilets |
| FINISHES AND MATERIALS | |
| Floor: | Sheet flooring with flash cove base. |
| Walls: | Ceramic tile behind fixtures, painted gypsum wallboard elsewhere. |
| Ceiling: | Painted gypsum wallboard. |
| Wall Protection: | NA. |
| Other: | Durable, hard surface materials. |
| DOORS & WINDOWS | |
| Interior Glazing: | NA. |
| Exterior Glazing: | NA. |
| Door: | NA. |
| MILLWORK, FURNITURE, EQUIPMENT & ACCESSORIES | |
| Millwork & Furniture: | NA. |
| Fixtures and Equipment: | 0. Coat hook. 1. Mirror. 2. Paper and soap dispensers. 3. Waste receptacles. 4. Hand dryer. 5. Lockable storage cabinet for sanitary supplies. |
| Accessories: | NA. |
| PLUMBING | |
| | 0. Toilet. (minimum 4) 1. Trap primed floor drain. 2. Sink (minimum 1) |

FEMALE STAFF WASHROOM

| | | | | | | | |
|--|---|---|--|---|--|--|--|
| | | | | | | | |
| HVAC | | | | | | | |
| <input checked="" type="checkbox"/> Heated | | | | | | | |
| <input type="checkbox"/> Air Conditioned | | | | | | | |
| <input checked="" type="checkbox"/> Ventilated | | <input type="checkbox"/> Positive | | <input type="checkbox"/> Negative | | | |
| Service Air: | | <input type="checkbox"/> Yes | | <input checked="" type="checkbox"/> No | | | |
| <input checked="" type="checkbox"/> Water | <input checked="" type="checkbox"/> Potable | <input checked="" type="checkbox"/> Reclaimed | <input checked="" type="checkbox"/> Cold | <input checked="" type="checkbox"/> Hot | | | |
| <input type="checkbox"/> Other | | | | | | | |
| ELECTRICAL | | | | | | | |
| Classification: | | | | | | | |
| Lighting: | | 0. Comply with WWD Electrical Design Guide. | | | | | |
| Power: | | 0. 120 Volt GFI outlet at sink. 1. Housekeeping receptacles. 2. 20A 1ph 120V Power for hand dryer required. | | | | | |
| Communications: | | NA. | | | | | |

MALE STAFF WASHROOM

| | | | | | | | |
|---|---|---|--|---|--|--|--|
| LOCATION: | | Area V | | | | | |
| DEPARTMENT/ ZONE: | | | | | | | |
| PROGRAM AREA: | | Minimum 120 m ² | | | | | |
| DESCRIPTION: | | Washroom facilities for 12 male staff. [NTD: Determine number of staff onsite] | | | | | |
| ACTIVITIES/ FUNCTION: | | Washroom facilities. | | | | | |
| CRITICAL DIMENSIONS: | | NA. | | | | | |
| ADJACENCIES: | | Work areas. | | | | | |
| ACOUSTIC: | | STC 45 NC 40-45 RT60 N/A | | | | | |
| LOCATION/ ACCESS: | | 0. Accessed from corridor. | | | | | |
| SPECIAL REQUIREMENTS: | | 0. Designed to Manitoba Building Code. 1. Door-less washrooms and touch-less fixtures for improved hygiene 2. Low flow faucets 3. Potable water for toilets/urinals. | | | | | |
| FINISHES AND MATERIALS | | | | | | | |
| Floor: | | Sheet flooring with flash cove base. | | | | | |
| Walls: | | Ceramic tile behind fixtures, painted gypsum wallboard elsewhere. | | | | | |
| Ceiling: | | Painted gypsum wallboard. | | | | | |
| Wall Protection: | | NA. | | | | | |
| Other: | | Durable, hard surface materials. | | | | | |
| DOORS & WINDOWS | | | | | | | |
| Interior Glazing: | | NA. | | | | | |
| Exterior Glazing: | | NA. | | | | | |
| Door: | | NA. | | | | | |
| MILLWORK, FURNITURE, EQUIPMENT & ACCESSORIES | | | | | | | |
| Millwork & Furniture: | | NA. | | | | | |
| Fixtures and Equipment: | | 0. Coat hook. 1. Mirror. 2. Paper and soap dispensers. 3. Waste receptacles. 4. Hand dryer. 5. Lockable storage cabinet for sanitary supplies. | | | | | |
| Accessories: | | NA. | | | | | |
| PLUMBING | | | | | | | |
| | | 0. Toilet. (minimum 3) 1. Urinal. (minimum 3) 2. Sink (minimum 4) 3. Trap primed floor drain. 4. Floor Drain | | | | | |
| HVAC | | | | | | | |
| <input checked="" type="checkbox"/> Heated | | | | | | | |
| <input type="checkbox"/> Air Conditioned | | | | | | | |
| <input checked="" type="checkbox"/> Ventilated | | <input type="checkbox"/> Positive | | <input type="checkbox"/> Negative | | | |
| Service Air: | | <input type="checkbox"/> Yes | | <input checked="" type="checkbox"/> No | | | |
| <input checked="" type="checkbox"/> Water | <input checked="" type="checkbox"/> Potable | <input checked="" type="checkbox"/> Reclaimed | <input checked="" type="checkbox"/> Cold | <input checked="" type="checkbox"/> Hot | | | |

MALE STAFF WASHROOM

| | |
|-------------------|--|
| Other | |
| ELECTRICAL | |
| Classification: | |
| Lighting: | 0. <i>Comply with WWD Electrical Design Guide.</i> |
| Power: | 0. <i>120 Volt GFI outlet at sink.</i> 1. <i>Housekeeping receptacles.</i> 2. <i>20A 1ph 120V Power for hand dryer required.</i> |
| Communications: | NA. |

BOOT ROOM

| | | | |
|---|---|------------------------------------|--|
| LOCATION: | Area V | | |
| DEPARTMENT/ ZONE: | | | |
| PROGRAM AREA: | Minimum 12 m ² | | |
| DESCRIPTION: | Room for removing soiled boot and boot cleaning with attached short term storage of work clothing. | | |
| ACTIVITIES/ FUNCTION: | 0. Boot storage 1. Boot cleaning. | | |
| CRITICAL DIMENSIONS: | Min. 2.5 m wide | | |
| ADJACENCIES: | 0. Screenings storage room and grit storage room. 1. Circulation corridor | | |
| ACOUSTIC: | STC 45 NC N/A RT60 N/A | | |
| LOCATION/ ACCESS: | 0. Direct access process building entrance. | | |
| SPECIAL REQUIREMENTS: | 0. Wash-down for boots and equipment and electric boot cleaner. 1. Durable material finishes required for ease of maintenance. | | |
| FINISHES AND MATERIALS | | | |
| Floor: | Sealed hardened concrete. | | |
| Walls: | Ceramic Tile | | |
| Ceiling: | Exposed structure - Painted. | | |
| Wall Protection: | NA. | | |
| Other: | Durable, non-staining materials for ease of maintenance. | | |
| DOORS & WINDOWS | | | |
| Interior Glazing: | NA. | | |
| Exterior Glazing: | | | |
| Door: | Steel Door in Frame | | |
| MILLWORK, FURNITURE, EQUIPMENT & ACCESSORIES | | | |
| Millwork & Furniture: | 2m min bench Rod and Shelf over | | |
| Fixtures and Equipment: | NA. | | |
| Accessories: | NA. | | |
| PLUMBING | | | |
| | 0. Floor Drain. | | |
| HVAC | | | |
| <input checked="" type="checkbox"/> Heated | | | |
| <input type="checkbox"/> Air Conditioned | | | |
| <input checked="" type="checkbox"/> Ventilated | <input type="checkbox"/> Positive | <input type="checkbox"/> Negative | |
| Service Air: | <input type="checkbox"/> Yes | <input type="checkbox"/> No | |
| <input checked="" type="checkbox"/> Water | <input checked="" type="checkbox"/> Potable | <input type="checkbox"/> Reclaimed | <input checked="" type="checkbox"/> Cold <input checked="" type="checkbox"/> Hot |
| <input checked="" type="checkbox"/> Other | Separate ventilation. | | |

BOOT ROOM

| ELECTRICAL | |
|-------------------|--|
| Classification: | |
| Lighting: | <i>0. Comply with WWD Electrical Design Guide for storage rooms.</i> |
| Power: | <i>0. Housekeeping receptacles. 1. Convenience Receptacles 2. 20A 1ph 120V receptacle for boot cleaner</i> |
| Communications: | <i>NA.</i> |

SHOWER AND CHANGE ROOM

| | |
|----------------------------------|---|
| LOCATION: | <i>Area V</i> |
| DEPARTMENT/ ZONE: | |
| PROGRAM AREA: | <i>Minimum 35 m2 for female and 35 m2 for male</i> |
| DESCRIPTION: | <i>Individual shower stalls and change room, including 2 lockers per person. To accommodate 12 staff.</i> |
| ACTIVITIES/ FUNCTION: | <i>Showers and changing before and after work</i> |
| CRITICAL DIMENSIONS: | <i>NA</i> |
| ADJACENCIES: | <i>Connected to main lavatories.</i> |
| ACOUSTIC: | <i>STC 55 NC 30-35 RT60 0.7 s</i> |
| LOCATION/ ACCESS: | <i>Area V</i> |
| SPECIAL REQUIREMENTS: | |
| FINISHES AND MATERIALS | |
| Floor: | <i>3. Resilient Sheet</i> |
| Walls: | <i>4. Wood panel or paint. Acoustic separation required.</i> |
| Ceiling: | <i>Acoustic ceiling tile and/or gypsum wallboard.</i> |
| Wall Protection: | <i>NA.</i> |

SHOWER AND CHANGE ROOM

| | | | | | |
|---|---|--------------------------|-----------|--------------------------|-----------|
| Other: | <i>Acoustic absorption required.</i> | | | | |
| | | | | | |
| DOORS & WINDOWS | | | | | |
| Interior Glazing: | NA | | | | |
| Exterior Glazing: | NA | | | | |
| Door: | <i>Interior passage wood framed with full height glazing and automatic door closer.</i> | | | | |
| | | | | | |
| MILLWORK, FURNITURE, EQUIPMENT & ACCESSORIES | | | | | |
| Millwork & Furniture: | <i>Change Benches, metal lockers, rod and shelf area</i> | | | | |
| Fixtures and Equipment: | <i>Accessible washroom fixtures</i> | | | | |
| Accessories: | NA | | | | |
| | | | | | |
| PLUMBING | | | | | |
| | | <i>Floor Drain</i> | | | |
| HVAC | | | | | |
| <input checked="" type="checkbox"/> | Heated | | | | |
| <input checked="" type="checkbox"/> | Air Conditioned | | | | |
| <input checked="" type="checkbox"/> | Ventilated | <input type="checkbox"/> | Positive | <input type="checkbox"/> | Negative |
| Service Air: | | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| <input type="checkbox"/> | Water | <input type="checkbox"/> | Potable | <input type="checkbox"/> | Reclaimed |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Reclaimed | <input type="checkbox"/> | Cold |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Hot | | |
| <input type="checkbox"/> | Other | | | | |
| | | | | | |

SHOWER AND CHANGE ROOM

| ELECTRICAL | |
|-----------------|--|
| Classification: | |
| Lighting: | <i>5. Comply with WWD Electrical Design Guide.</i> |
| Power: | <i>6. GFI Outlet</i> |
| Communications: | <i>7. Wireless LAN system.</i> |

FEMALE SHOWER AND CHANGE ROOM

| | |
|----------------------------------|---|
| LOCATION: | <i>Area V</i> |
| DEPARTMENT/ ZONE: | |
| PROGRAM AREA: | <i>Minimum 35 m2 for female and 35 m2 for male</i> |
| DESCRIPTION: | <i>Individual shower stalls and change room, including 2 lockers per person. To accommodate 12 staff.</i> |
| ACTIVITIES/ FUNCTION: | <i>Showers and changing before and after work</i> |
| CRITICAL DIMENSIONS: | <i>NA</i> |
| ADJACENCIES: | <i>Connected to main lavatories.</i> |
| ACOUSTIC: | <i>STC 55 NC 30-35</i> |

FEMALE SHOWER AND CHANGE ROOM

| | |
|---|---|
| | <i>RT60 0.7 s</i> |
| LOCATION/ ACCESS: | |
| SPECIAL REQUIREMENTS: | |
| FINISHES AND MATERIALS | |
| Floor: | <i>8. Resilient Sheet</i> |
| Walls: | <i>9. Wood panel or paint. Acoustic separation required.</i> |
| Ceiling: | <i>Acoustic ceiling tile and/or gypsum wallboard.</i> |
| Wall Protection: | <i>NA.</i> |
| Other: | <i>Acoustic absorption required.</i> |
| DOORS & WINDOWS | |
| Interior Glazing: | <i>NA</i> |
| Exterior Glazing: | <i>NA</i> |
| Door: | <i>Interior passage wood framed with full height glazing and automatic door closer.</i> |
| MILLWORK, FURNITURE, EQUIPMENT & ACCESSORIES | |
| Millwork & Furniture: | <i>Change Benches, metal lockers, rod and shelf area</i> |
| Fixtures and Equipment: | <i>Accessible washroom fixtures</i> |
| Accessories: | <i>NA</i> |
| | |

FEMALE SHOWER AND CHANGE ROOM

| | | | | | | | | | |
|---|-------------|--|--|-------------------|---|----------|--|----------|-----|
| PLUMBING | | | | | | | | | |
| | | | | | <i>Floor Drain</i> | | | | |
| HVAC | | | | | | | | | |
| <input checked="" type="checkbox"/> Heated | | | | | | | | | |
| <input checked="" type="checkbox"/> Air Conditioned | | | | | | | | | |
| <input checked="" type="checkbox"/> Ventilated | | | | Posit ive | | | | Negative | |
| Service Air: | | | | Yes | | | | No | |
| Wat er | Pota ble | | | Recl aime d | | Co ld | | | Hot |
| Other | | | | | | | | | |
| ELECTRICAL | | | | | | | | | |
| Classification: | | | | | | | | | |
| Lighting: | | | | | <i>10. Comply with WWD Electrical Design Guide.</i> | | | | |
| Power: | | | | | <i>11. GFI Outlet</i> | | | | |
| Communications: | | | | | <i>12. Wireless LAN system.</i> | | | | |

FOYER

| | |
|----------------------------------|--|
| LOCATION: | <i>Area V</i> |
| DEPARTMENT/ ZONE: | |
| PROGRAM AREA: | <i>Minimum of 20 m2</i> |
| DESCRIPTION: | <i>Part of building entry. Area to serve as transition space to other areas.</i> |
| ACTIVITIES/ FUNCTION: | <i>Building entrance</i> |
| CRITICAL DIMENSIONS: | <i>TBD as part of the final design.</i> |
| ADJACENCIES: | <i>Located as part of main entrance to the building</i> |
| ACOUSTIC: | <i>STC 55 NC 30-35 RT60 0.7 s</i> |
| LOCATION/ ACCESS: | <i>Adjacent to entry vestibule.</i> |
| SPECIAL REQUIREMENTS: | <i>Solar shading/ glare control required.</i> |
| FINISHES AND MATERIALS | |
| Floor: | <i>13. Resilient Sheet</i> |
| Walls: | <i>14. Wood panel or paint.</i> |
| Ceiling: | <i>Acoustic ceiling tile and/or gypsum wallboard.</i> |
| Wall Protection: | <i>NA.</i> |
| Other: | <i>Acoustic absorption required.</i> |
| | |

FOYER

| DOORS & WINDOWS | | | | | | | | | |
|---|-------|---|---------|----------|-----------|----------|------|--|-----|
| Interior Glazing: | | TBD on final design | | | | | | | |
| Exterior Glazing: | | <i>Access to daylight, views to exterior.</i> | | | | | | | |
| Door: | | <i>To be part of the entry storefront glazing/system.</i> | | | | | | | |
| | | | | | | | | | |
| MILLWORK, FURNITURE, EQUIPMENT & ACCESSORIES | | | | | | | | | |
| Millwork & Furniture: | | NA | | | | | | | |
| Fixtures and Equipment: | | NA | | | | | | | |
| Accessories: | | NA | | | | | | | |
| | | | | | | | | | |
| PLUMBING | | | | | | | | | |
| | | NA | | | | | | | |
| HVAC | | | | | | | | | |
| <input checked="" type="checkbox"/> Heated | | | | | | | | | |
| <input checked="" type="checkbox"/> Air Conditioned | | | | | | | | | |
| <input checked="" type="checkbox"/> Ventilated | | | | Positive | | Negative | | | |
| Service Air: | | | | Yes | | No | | | |
| | Water | | Potable | | Reclaimed | | Cold | | Hot |
| Other | | | | | | | | | |
| | | | | | | | | | |
| ELECTRICAL | | | | | | | | | |
| Classification: | | | | | | | | | |
| Lighting: | | <i>15. Comply with WWD Electrical Design Guide.</i> | | | | | | | |

FOYER

| | |
|-----------------|---|
| Power: | <i>16. Convenience duplex receptacles (1 per wall)</i> <i>Housekeeping duplex receptacles to code.</i> |
| Communications: | <i>17. Wireless LAN system.</i> |

Laboratory Room

| | |
|---------------------------------------|---|
| LOCATION: | <i>Area V and Area T</i> |
| DEPARTMENT/ ZONE: | |
| PROGRAM AREA: | <i>Minimum of 15 m2</i> |
| DESCRIPTION: | <i>Laboratory room adjacent to predewatering and final dewatering centrifuges. Area to serve as solids testing location, complete with fridge, sink and percent solids testing equipment.</i> |
| ACTIVITIES/ FUNCTION: | <i>Solids testing to support centrifuge adjustment.</i> |
| CRITICAL DIMENSIONS: | <i>TBD as part of the final design.</i> |
| ADJACENCIES: | <i>Adjacent to the centrifuges</i> |
| ACOUSTIC: | <i>STC 55 NC 30-35 RT60 0.7 s</i> |
| LOCATION/ ACCESS: | <i>Adjacent to centrifuges.</i> |
| SPECIAL REQUIREMENTS: | <i>Solar shading/ glare control required.</i> |
| FINISHES AND MATERIALS | |
| Floor: | <i>18. Resilient Sheet</i> |
| Walls: | <i>Painted masonry</i> |
| Ceiling: | <i>Acoustic ceiling tile and/or gypsum wallboard.</i> |
| Wall Protection: | <i>NA.</i> |
| Other: | |
| DOORS & WINDOWS - Optional | |

| | | | |
|---|--|--------------------------|--------------------------|
| Interior Glazing: | TBD on final design | | |
| Exterior Glazing: | <i>TBD on final design.</i> | | |
| Door: | <i>To be part of the entry storefront glazing/system.</i> | | |
| MILLWORK, FURNITURE, EQUIPMENT & ACCESSORIES | | | |
| Millwork & Furniture: | <i>Laboratory grade counter and bottom storage for 2 m</i> | | |
| Fixtures and Equipment: | <i>Fume hood with exterior venting.</i> | | |
| Accessories: | <i>Sample fridge</i> | | |
| PLUMBING | | | |
| | NA | | |
| HVAC | | | |
| X | Heated | | |
| X | Air Conditioned | | |
| X | Ventilated | <input type="checkbox"/> | Positive |
| | | <input type="checkbox"/> | Negative |
| Service Air: | <input type="checkbox"/> | Yes | No |
| <input type="checkbox"/> | Water | <input type="checkbox"/> | Potable |
| <input type="checkbox"/> | | <input type="checkbox"/> | Reclaimed |
| <input type="checkbox"/> | | <input type="checkbox"/> | Col d |
| <input type="checkbox"/> | | <input type="checkbox"/> | Hot |
| <input type="checkbox"/> | Other | | |
| ELECTRICAL | | | |
| Classification: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Lighting: | <i>19. Comply with WWD Electrical Design Guide.</i> | | |
| Power: | <i>20. Convenience duplex receptacles (1 per wall) and two dedicated circuits on the laboratory bench. Housekeeping duplex receptacles to code.</i> | | |

| | |
|-----------------|---------------------------------|
| Communications: | <i>21. Wireless LAN system.</i> |
|-----------------|---------------------------------|

OFFICE ROOM

| | |
|----------------------------------|--|
| LOCATION: | <i>Area V and Area T</i> |
| DEPARTMENT/ ZONE: | |
| PROGRAM AREA: | <i>4 offices in Area V and 2 offices in Areat T of 10 m2</i> |
| DESCRIPTION: | <i>Office Function.</i> |
| ACTIVITIES/ FUNCTION: | <i>Office work</i> |

OFFICE ROOM

| | | | | |
|---|--|--------------------------|-----------|--------------------------|
| CRITICAL DIMENSIONS: | <i>Need to accommodate workstation and other required furniture.</i> | | | |
| ADJACENCIES: | 22. <i>Proximity to building entrance.</i> 23. <i>Proximity to Biosolids Control Room</i> 24. <i>Proximity to lavatories.</i> | | | |
| ACOUSTIC: | STC 55 NC 30-35 RT60 0.7 s | | | |
| LOCATION/ ACCESS: | <i>Administration areas and control areas.</i> | | | |
| SPECIAL REQUIREMENTS: | <i>TBD</i> | | | |
| FINISHES AND MATERIALS | | | | |
| Floor: | <i>Resilient Sheet</i> | | | |
| Walls: | <i>Painted masonry</i> | | | |
| Ceiling: | <i>Acoustic ceiling tile and/or gypsum wallboard.</i> | | | |
| Wall Protection: | <i>NA.</i> | | | |
| Other: | <i>Acoustic absorption required.</i> | | | |
| DOORS & WINDOWS | | | | |
| Interior Glazing: | | | | |
| Exterior Glazing: | <i>Access to daylight, views to exterior, and operable windows.</i> | | | |
| Door: | <i>Interior passage wood framed with full height glazing.</i> | | | |
| MILLWORK, FURNITURE, EQUIPMENT & ACCESSORIES | | | | |
| Millwork & Furniture: | <i>Workstation with network connectivity.</i> <i>Office Chair and 2 guest chairs</i> | | | |
| Fixtures and Equipment: | 25. <i>Whiteboard (minimum 1200 mm H x 3000 mm W).</i> 26. <i>1 Tackboards (minimum 1200 mm H x 1800 mm W).</i> 27. <i>Window blinds or solar shading devices.</i> | | | |
| Accessories: | <i>NA</i> | | | |
| PLUMBING | | | | |
| | <i>NA</i> | | | |
| HVAC | | | | |
| <input checked="" type="checkbox"/> | Heated | | | |
| <input checked="" type="checkbox"/> | Air Conditioned | | | |
| <input checked="" type="checkbox"/> | | | Positive | Negative |
| Service Air: | | | Yes | No |
| <input type="checkbox"/> | Water | <input type="checkbox"/> | Potable | <input type="checkbox"/> |
| | | | Reclaimed | <input type="checkbox"/> |
| | | | Cold | <input type="checkbox"/> |
| | | | Hot | <input type="checkbox"/> |
| | Other | | | |
| ELECTRICAL | | | | |
| Classification: | | | | |

OFFICE ROOM

| | |
|-----------------|---|
| Lighting: | <i>28. Comply with WWD Electrical Design Guide.</i> |
| Power: | <i>29. Convenience duplex receptacles (3 per wall).</i> |
| Communications: | <i>30. Wireless LAN system.</i> |

UNIVERSAL WASHROOM , LOCKER AND SHOWERROOM

| | |
|------------------------------|--------------------------|
| LOCATION: | <i>Area V and Area T</i> |
| DEPARTMENT/ ZONE: | |

UNIVERSAL WASHROOM , LOCKER AND SHOWERROOM

| | |
|----------------------------------|--|
| PROGRAM AREA: | <i>10m2 minimum – to meet Manitoba Code requirements.</i> |
| DESCRIPTION: | <i>Washroom and shower room for staff.</i> |
| ACTIVITIES/ FUNCTION: | <i>Washroom and shower function</i> |
| CRITICAL DIMENSIONS: | <i>Meet applicable code dimensions.</i> |
| ADJACENCIES: | <i>In convenient location in close proximity to the required functions it serves</i> |
| ACOUSTIC: | <i>STC 55 NC 30-35 RT60 0.7 s</i> |
| LOCATION/ ACCESS: | <i>Administration areas and control areas.</i> |
| SPECIAL REQUIREMENTS: | <i>Accessible shower stall required.</i> |
| FINISHES AND MATERIALS | |
| Floor: | <i>Resilient Sheet – coved</i> |
| Walls: | <i>Water resistant pain on concrete block</i> |
| Ceiling: | <i>Acoustic ceiling tile and/or gypsum wallboard.</i> |
| Wall Protection: | <i>NA.</i> |
| Other: | <i>Acoustic absorption required.</i> |
| DOORS & WINDOWS | |
| Interior Glazing: | |
| Exterior Glazing: | <i>N/A</i> |
| Door: | <i>Solid Door with privacy lock</i> |
| | |

UNIVERSAL WASHROOM , LOCKER AND SHOWERROOM

| MILLWORK, FURNITURE, EQUIPMENT & ACCESSORIES | | | | | | | | | |
|---|-----------------|---|-------------|--------------|-------------------|----------|----------|--|-----|
| Millwork & Furniture: | | | | | | | | | |
| Fixtures and Equipment: | | <i>Accessible washroom fixtures</i> | | | | | | | |
| Accessories: | | <i>Accessible washroom fixtures</i> <i>4 lockers</i> | | | | | | | |
| PLUMBING | | | | | | | | | |
| | | NA | | | | | | | |
| HVAC | | | | | | | | | |
| <input checked="" type="checkbox"/> | Heated | | | | | | | | |
| <input checked="" type="checkbox"/> | Air Conditioned | | | | | | | | |
| <input checked="" type="checkbox"/> | Ventilated | | | Posit ive | | Negative | | | |
| Service Air: | | | Yes | | No | | | | |
| | Wat er | | Pota ble | | Recl aime d | | Co ld | | Hot |
| | Other | | | | | | | | |
| ELECTRICAL | | | | | | | | | |
| Classification: | | | | | | | | | |
| Lighting: | | <i>31. Comply with WWD Electrical Design Guide.</i> | | | | | | | |
| Power: | | <i>32. 120 Volt GFI receptacle at sink.</i> <i>33. Housekeeping receptacles.</i> <i>34. 20A 120V 1ph Power for hand dryer required.</i> | | | | | | | |
| Communications: | | <i>.Wireless Lan</i> | | | | | | | |

LUNCHROOM

| | |
|----------------------------------|---|
| LOCATION: | <i>Area V</i> |
| DEPARTMENT/ ZONE: | |
| PROGRAM AREA: | <i>Minimum 35 m²</i> |
| DESCRIPTION: | <i>A lunchroom to accommodate 20 people</i> |
| ACTIVITIES/ FUNCTION: | <i>Lunch and Lounge Area for staff</i> |
| CRITICAL DIMENSIONS: | <i>NA</i> |
| ADJACENCIES: | <i>35. Proximity to building entrance. Proximity to Biosolids Control Room Proximity to lavatories.</i> |
| ACOUSTIC: | <i>STC 55 NC 30-35 RT60 0.7 s</i> |
| LOCATION/ ACCESS: | <i>Administration areas and control areas.</i> |
| SPECIAL REQUIREMENTS: | <i>36. Solar shading/ glare control required. All necessary requirements for a TV to be wall mounted</i> |
| | |
| FINISHES AND MATERIALS | |
| Floor: | <i>37. Resilient Sheet</i> |
| Walls: | <i>38. Wood panel or paint. Acoustic separation required.</i> |
| Ceiling: | <i>Acoustic ceiling tile and/or gypsum wallboard.</i> |
| Wall Protection: | <i>NA.</i> |
| Other: | <i>Acoustic absorption required.</i> |

LUNCHROOM

| | |
|---|---|
| | |
| DOORS & WINDOWS | |
| Interior Glazing: | |
| Exterior Glazing: | <i>Access to daylight, views to exterior, and operable windows. (If possible)</i> |
| Door: | <i>Interior passage wood framed with full height glazing and automatic door closer.</i> |
| | |
| MILLWORK, FURNITURE, EQUIPMENT & ACCESSORIES | |
| Millwork & Furniture: | 39. <i>Supply and install tables to seat 20 people. Supply and install 20 chairs, suitable for use in a kitchen</i> |
| Fixtures and Equipment: | 40. <i>Supply and install one refrigerator compliant with ENERGY STAR ratings. Stainless Steel – Fridge/Freezer – 32”</i> 41. <i>Supply and install one microwave compliant with ENERGY STAR ratings.- stainless steel</i> 42. <i>Supply and install a water cooler.</i> 43. <i>Upper and lower kitchen cabinets (raised panel) and countertops (2.4 m).</i> 44. <i>Stainless Steel double bowl sink and faucet with retractable head.</i> 45. <i>Full size stove and ventilation fan</i> <i>Countertop – solid surface</i> |
| Accessories: | |
| | |
| PLUMBING | |
| | NA |
| HVAC | |
| <input checked="" type="checkbox"/> Heated | |
| <input checked="" type="checkbox"/> Air Conditioned | |
| <input checked="" type="checkbox"/> Ventilated | <input type="checkbox"/> Positive <input type="checkbox"/> Negative |
| Service Air: | <input type="checkbox"/> Yes <input type="checkbox"/> No |

LUNCHROOM

| | | | | | | | | | |
|-------------------|-------|---|---------|--|-----------|--|------|--|-----|
| | Water | | Potable | | Reclaimed | | Cold | | Hot |
| | Other | | | | | | | | |
| ELECTRICAL | | | | | | | | | |
| Classification: | | | | | | | | | |
| Lighting: | | 46. <i>Occupancy sensors. Min./avg.-maintained level of 350/400 LUX.</i> | | | | | | | |
| Power: | | 47. <i>Convenience Receptacles</i> 48. <i>Housekeeping receptacles.</i> Dedicated 20A T-Type (5-20R) receptacles for one full size fridge, one microwave, one stove and any other kitchen equipment to be running concurrently. | | | | | | | |
| Communications: | | 49. <i>Wireless LAN system</i> 1x data outlets (4 drops per outlet). | | | | | | | |

Attachment 1 – Description of Non-Process Areas

Table 1 - Description of Non-Process Areas

| Area | Person Occup. | Biosolids Control Room | Room Description and People Served | | | | | | | | | | | | | | | | | |
|-------|---------------|------------------------|------------------------------------|-----------------|-------------|------------------|---------------------------------|---------------|-------------|--------|------------------------|------------------------|--------------------------|-------|-----------|------------------|-----------------|---------------------|----------|------------|
| | | | Server Room | Electrical Room | Kitchenette | Universal Washrm | Universal Washrm/Locker/ Shower | Female Washrm | Male Washrm | Office | Lunch Room | Shower and Locker-Male | Shower and locker-Female | Foyer | Boot Room | Parking-Employee | Parking Visitor | Parts/Delivery Room | Lab Room | Parts room |
| V | 2 | 2 | Yes | Yes | NA | 1 | 2 | | | | | | | | | 12 | 6 | | | |
| V | 16 (at times) | | | | | | 2 | 5 stalls | 5 stalls | 4 | 16 with stove/ divider | 5 showers 20 people | 5 showers 20 people | | | | | | | |
| V | | | | | | | | | | | | | | Yes | | | | | | |
| V | | | | | | | | | | | | | | | Yes | | | | | |
| V | | | | | | | | | | | | | | | | | | Yes | Yes | |
| V | | | | | 2 | 1 | | | | | | | | | | 2 | | | | |
| D | 2 | | | Yes | | 1 | | | | | | | | | | 0 | | | | Yes |
| T-THP | 3 (max) | 2 | | Yes | 3 | | 3 | | | 2 | | | | | | 4 | | | | |
| T | 2 | | | Yes | | 2 | | | | | | | | | | | | | | |
| T | | | | | | | | | | | | | | | | | | Yes | Yes | |
| N | 1 | | | Yes | | 1 | | | | | | | | | | 2 | | | | |
| N | | | | | 2 | 1 | | | | | | | | | | | | | | Yes |
| K | 1 | | | Yes | | 1 | | | | | | | | | | 2 | | | | Yes |
| J | 1 | | | Yes | | 1 | | | | | | | | | | 2 | | | | Yes |