The City of Winnipeg

Water & Waste Department

Identification Standard Appendices

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Approved By:	Michelle Paetkau MP Michelle Paetkau, Wastewater Planning Branch Head	March 16, 2021 Date

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1 INTRODUCTION

This Water and Waste Department (WWD) Identification Standard Appendices (appendices) document is to be referenced for consistent and accurate identification for facilities. The appendices will be coordinated with the Identification Standard and document numbering standards as appropriate.

1.1 Document Revisions

Wastewater Planning and Project Delivery Branch (WWPPD) will issue revisions to the document on an as required basis. WWPPD will send out an email requesting review and comments by the division list below.

All proposed revisions shall be circulated to the following divisions and branches:

- Water Services Division
- Wastewater Services Division
- Solid Waste Services Division
- Engineering Division
    - Asset Management Branch
    - Design and Construction Branch
    - Drafting and Graphic Services Branch
    - Land Drainage and Flood Protection Branch
    - Wastewater Planning and Project Delivery Branch
    - Water Planning and Project Delivery Branch

Appendix A Facility Codes

Each City of Winnipeg facility is assigned a unique, four-digit facility code. The facility code is to be used on drawings and documentation as required. The facility code appears within all City drawing numbers, but need not be shown within the content of the drawing. The facility code is deemed an optional component of equipment and instrument identifiers, with the preference to omit the facility code to reduce the overall length of identifiers.

Systems such as a central Supervisory Control and Data Acquisition (SCADA) system that monitors multiple facilities are to make use of the facility code to segregate components by facility. The implementation of the facility code may be by means of a hierarchical directory system whereby individual components are stored under a folder that is named by the facility code. If the database or system where the identifier is being stored supports an additional field for the facility code, or is based upon a hierarchical system where the identifier can be placed as a component off of a root facility branch, it is deemed to be acceptable to omit the facility code in the instrument identifier. For example, the City's current Computerized Work Management System (CWMS) has an integral asset list, where a field is provided for the facility. In this case, the facility code for the equipment identifier would not be entered.

A.1 Project Facility Codes

It is the responsibility of the Project Manager to notify Drawing Control and Underground Structures (UGS) Approval Process Technologist from the Design and Graphics Branch (D&G) of any consultant or in-house projects requiring City drawings numbers during the Planning phase of a project. In the email, provide the project name, description of the project and the anticipated deliverables (drawings), facility code(s) and any applicable area codes.

A.1.1 Creating New Facility Codes

It is the responsibility of the Project Manager to notify the WWPPD when a new facility code is required for a project. Request a new facility code by emailing WWPPD (cc. Drawing Control and UGS Approval Process Technologist from D&G) the following information:

- Project name
- Description of the project
- Proposed facility code name
- Type of facility (i.e. Collection Facility)

A review of the request will be undertaken by WWPPD in consultation with D&G and appropriate business unit (if required). WWPPD will update the Facility Codes Document and send an email with the assigned facility code to D&G and the Project Manager.

A.1.2 Revising Existing Facility Codes

Only WWPPD can revise the WWD Facility Codes. If it is determined that a facility code needs to be revised, Project Managers should send an email to the WWPPD (cc. Drawing Control and UGS Approval Process Technologist from D&G) informing them of why the change is needed. Some examples that would warrant a revision include:

- Naming errors (need to align with WWD naming structure and asset categories)
- Duplication of facility codes
- Decommissioning of a facility
- Merging of two facilities

A review of the request will be undertaken by WWPPD in consultation with D&G and appropriate business unit (if required). If accepted, WWPPD will update the Facility Codes and send an email to D&G and the Project Manager.

A.2 Definitions

Future: Facility code reserved for upcoming project.

Spare: Facility code available for use within the specified facility category or sub-category (i.e. 'Sewage Treatment Facilities').

Unused: Facility codes available for a new facility category.

Discontinued: Facility code is no longer in use and is not to be reassigned.

Facility Code	Facility
0001	**General – to be used only when no other facility codes apply**
0002 - 0099	**Unused**
0100 - 0109	**Sewage Treatment Facilities**
0100	General – Sewage Treatment Facilities
0101	North End Sewage Treatment Plant (NEWPCC)
0102	South End Sewage Treatment Plant (SEWPCC)
0103	West End Sewage Treatment Plant (WEWPCC)
0104-0109	Spares
0110 - 0299	**Collections Facilities – Lift, Flood Pumping, CSO & Diversion Stations**
0110	General – Collections Facilities (Lift, Flood Pumping, CSO and Diversion Stations)
0111	DISCONTINUED (was Perimeter Road Pumping Station, now part of the WEWPCC Facility Code)
0112	Alexander Diversion Station
0113	Armstrong Diversion Station
0114	Ash Lift and Flood Pumping Stations (separate buildings on neighbouring properties)
0115	Assiniboine Flood Pumping Station
0116	Aubrey Lift and Flood Pumping Stations (separate buildings on neighbouring properties)
0117	Baltimore Lift and Flood Pumping Stations (separate buildings on neighbouring properties)
0118	Bannatyne Flood Pumping Station
0119	Barker Lift Station
0120	Bournais / Mission Gardens Lift Station
0121	Burrows Lift Station
0122	Camiel Lift Station
0123	Chataway Lift and Flood Pumping Station (combined station)
0124	Clarence Lift Station
0125	Clifton Lift and Flood Pumping Stations (separate buildings)
0126	Cloutier Lift Station
0127	Cockburn Lift and Flood Pumping Station (combined station) and Diversion Chamber
0128	Colony Flood Pumping Station (formerly included in Colony Diversion Station – see 129)
0129	Colony Diversion Station
0130	Community Row Lift Station
0131	Conway Lift Station
0132	Cornish Flood Pumping Station

Facility Code	Facility
0133	Cornish Lift Station
0134	Crane Lift Station
0135	D'Arcy Lift Station
0136	Despins Lift and Flood Pumping Stations (separate buildings)
0137	Dublin Lift Station
0138	Dugald Road Lift Station
0139	Dumoulin Lift and Flood Pumping Station (combined station) and Diversion Chamber
0140	Elmhurst Lift Station
0141	Ferry Road Lift Station
0142	Galt Flood Pumping Station
0143	Grandmont Lift Station (underground) and Generator Building
0144	Hart Lift and Flood Pumping Stations (separate buildings on neighbouring properties)
0145	Hawthorne Lift and Flood Pumping Station
0146	Heritage Lift Station
0147	Holland Lift Station
0148	Jefferson Flood Pumping Station (formerly included Diversion Chamber – see 150)
0149	Jessie Lift and Flood Pumping Stations (separate buildings)
0150	Jefferson & Main Diversion Station
0151	Kilkenny Lift Station
0152	King Edward Lift Station
0153	Larchdale Lift Station
0154	Laverendrye Flood Pumping Station
0155	Linden Lift and Flood Pumping Stations (separate buildings)
0156	Louelda Lift Station
0157	Mager Drive Lift and Flood Pumping Stations (separate buildings on neighbouring properties)
0158	Manitoba Lift Station
0159	Marion Lift and Flood Pumping Stations (separate buildings on neighbouring properties)
0160	Mayfair Lift and Flood Pumping Station (combined station)
0161	Metcalfe Flood Pumping Station
0162	Metcalfe Lift Station
0163	Mission Flood Pumping Station
0164	Montcalm Lift Station
0165	Munroe Diversion Chamber
0166	Newton Flood Pumping and Diversion Stations (separate buildings)
0167	Notre Dame Lift Station

Facility Code	Facility
0168	Oak Grove Lift Station
0169	Olive Lift Station
0170	Pandora Lift Station
0171	Parklane Lift Station
0172	Parkwood Lift Station
0173	Polson Flood Pumping and Diversion Stations (separate buildings)
0174	Portsmouth Lift Station
0175	Pulberry Lift Station
0176	DISCONTINUED (was Ravelston Land Drainage Pumping Station, now part of 447)
0177	Ridgedale Lift Station
0178	Riverbend Lift Station
0179	Roland Flood Pumping Station
0180	Ryan Lift Station
0181	Selkirk Flood Pumping and Diversion Station (separate buildings)
0182	Somerville Lift Station
0183	Jefferson and Jones Diversion Chamber
0184	St. Charles Lift Station
0185	St. Johns Flood Pumping Station and Diversion Chamber
0186	St. Norbert / X-Kaley Flood Pumping Gate Chamber
0187	St. Norbert Lift Station
0188	Strathmillan Diversion Chamber
0189	Syndicate Lift and Flood Pumping Stations (separate buildings)
0190	Thibault Lift Station
0191	Trappiste Lift Station
0192	Tuxedo Lift Station
0193	Tylehurst Lift Station
0194	Westwood Lift Station
0195	Wexford Road Lift Station
0196	Willow Lift Station
0197	Windsor Park Lift Station
0198	Woodhaven Lift Station
0199	Assiniboine Park Lift Station
0200	Canora Flood Pumping Gate Chamber
0201	Crescent Drive Lift Station
0202	Ducharme High Level Site Manhole
0203	Enfield Crescent Lift Station
0204	Fort Rouge Park Flood Pumping Gate Chamber

Facility Code	Facility
0205	Irving Place Lift Station
0206	Kildare Flood Pumping Station
0207	Kildonan Park Lift Station
0208	Perimeter West Lift Station
0209	Kildonan Park Rainbow Stage Lift Station
0210	Saskatchewan Lift Station
0211	University of Manitoba Lift Station
0212	University of Winnipeg CSO Storage
0213	Victoria Crescent Lift Station
0214	DISCONTINUED (was Mazenod Lift Station, now part of 5-1 St Boniface Industrial Facility Code)
0215	St. Boniface Lift Station
0216	Assiniboine Park Lift Station
0217	Barker Standby Generator Building
0218	McDermot Dry Weather Overflow Manhole/CSO
0219	Windsor Park Standby Generator Building
0220	Interceptor (Mechanical, Structural, Instrumentation and Controls only)
0221	Force main (Mechanical, Structural, Instrumentation and Controls only)
0222	Trunk (Mechanical, Structural, Instrumentation and Controls only)
0223	Sewer Monitoring
0220-0299	Spares
0300 – 0399	**Land Drainage Facilities – Pumping Sites and Outfalls**
0300	Land Drainage Facilities - General
0301	Archibald Underpass Station
0302	Bishop Grandin Underpass Station
0303	Outfalls
0304	Keewatin Underpass Station
0305	Kenaston Underpass Station
0306	Kilkenny & Rice Flood Pumping Manhole
0307	Spare
0308	McPhillips Underpass Pumping Station
0309	Metro Route 20 Underpass Pumping Station
0310	Metro Route 90 Underpass Pumping Station
0311	Transit Underpass Pumping Station (Osborne)
0312-0313	Spares
0314	St. James Underpass Pumping Station
0315	Spare
0316	Turnbull Drive Flood Pumping Manhole

Facility Code	Facility
0317	Pembina Underpass Pumping Station
0318	Pembina Wye Track Pumping Station
0319	Waverley Underpass Pumping Station
0320	Plessis Road Underpass Pumping Station
0321	Chief Peguis Underpass Pumping Station (on warranty)
0322	Beaujolais Flood Pumping Gate Chamber
0323-0399	Spares
0400	**Brady Road Landfill**
0401 - 0599	**Land Drainage – Storm Retention Basins**
0401	1-1 Weston, south of Alexander Avenue
0402	Private Storm Retention Basins
0403-0411	Spares
0412	2-2 St. James, off Isbister Street, north of Hamilton Avenue
0413	2-3 St. James, south-west of Lumsden Avenue and Lake Ridge Road
0414	2-4 St. James, north of South Lake Drive
0415	2-5 Omand’s Creek Industrial, north of Whitfield Avenue in Omand's Creek Industrial Park
0416	2-6 The Oaks Along the Assiniboine, west pond
0417	2-7 The Oaks Along the Assiniboine, east pond
0418-0420	Spares
0421	3-1 Maples, south-east corner of King Edward Street and Selkirk Avenue
0422	3-2 Maples, north-east corner of King Edward Street and Burrows Avenue
0423	3-3 Maples, north of Burrows Avenue at Benbow Road
0424	3-4 Maples, north-east corner of Garton Avenue and Belton Street
0425	3-5 Riverbend, north-west of Red River Boulevard and Riverstone Road
0426	3-6 Maples, north of Templeton Avenue and west of McPhillips Street
0427	Spare
0428	3-8 Maples, east of Keewatin Street and south of Adsum Drive
0429	3-9 Maples, Foxwarren Drive, west of Ritchie Street
0430	3-10 Amber Trails, west of Amber Trail and Ambergate Drive
0431	3-11 North Inkster Industrial, east of Meridian Drive and Inksbrook Drive
0432	3-12 North Inkster Industrial, east of Meridian Drive and north of Commercial Avenue
0433	3-13 Amber Trails, east of Strasbourg Drive and south of Thorn Drive
0434	3-14 Amber Trails, west of Massalia Drive
0435	3-15 Castlebury Meadows, south-west of Jefferson Avenue and King Edward Street
0436	3-16 Waterford Green, south of Jefferson Avenue and east of Brooksmere Trail

Facility Code	Facility
0437	3-17 Waterford Green, north of Commonwealth Path and east of Brooksmere Trail
0438	3-18 Aurora – North Point Village, south of North Point Boulevard, between Atlas Crescent
0439	3-19 Amber Gates, north of Templeton Avenue, between Cartesian Gate and Tennant Gate
0440	3-20 North Inkster Industrial, south of Haggart Avenue and west of King Edward Street
0441	Spare
0442	4-2 East Kildonan, off Gateway Road north, of Springfield Road (Bunn's Creek)
0443	4-3 Transcona, Cordite Ditch
0444	4-4 Kilcona Park, north-east Park Recreation Area (Harbourview Complex)
0445	4-5 Transcona, north-west corner of Devonshire Drive and Clouston Drive
0446	4-6 Transcona, south-east of Devonshire Drive and Kildonan Meadow Drive
0447	4-7 Transcona, Deep Pond, south-west Ravelston Avenue
0448	4-8 Kilcona Park, north-east corner of Lagimodiere Boulevard and Springfield Road
0449	4-9 Harbourview South, south of McMahon Place off McLellan Drive
0450	4-10 East Kildonan, north of Ragsdale between East Spring and West Spring
0451	4-11 Eaglemere, south of Eaglemere Drive
0452	4-12 East Elmwood, north-west of Lagimodiere Boulevard and Callsbeck Avenue
0453	Spare
0454	4-14 Arrowwood, south of Headmaster Row and west of Mitchelson Way
0455	4-15 Harbourview South, east of Lagimodiere Boulevard and north of Concordia Avenue
0456	4-16 Devonshire Village, south of Cal Gardner Drive and east of Peguis Street
0457	Spare
0458	4-20 Crocus Meadows, north-west corner of Peguis Street and Ravelston Avenue West
0459	4-21 Starlight, north of El Tassi Drive and west of Fiorentino Street
0460	4-22 Devonshire Park, south of Devonshire Drive West, west of Sheilagh Ball Cove
0461	5-1 St Boniface Industrial, west of Beghin Avenue at Paquin Road
0462	5-2 St Boniface Industrial, east of Paquin Road
0463	5-3 St Boniface Industrial, south of Camiel Sys Street, east of Ray Marius Road
0464	5-38 Waterside Estates, west of Plessis Road south of Dugald Road
0465	5-5 Southdale, north-east corner of Lakewood Boulevard and Edgewater Drive
0466	5-6 Southdale, west of Beaverhill Boulevard and north of Edgewater Drive
0467	5-7 Southdale, north-west corner of Lakewood Boulevard and Beaverhill Boulevard

Facility Code	Facility
0468	5-8 Southdale, south of Edgewater Drive between Sweetwater Bay and Beaverhill Boulevard
0469	5-9 Southdale, east corner of Shamrock Drive and Newcroft Road
0470	5-10 Southdale, south of Willowlake Crescent at Willow Point Road
0471	5-11 North St Vital, north of Bishop Grandin Boulevard at Kearney Street
0472	5-12 North St Vital, north of Bishop Grandin Boulevard at Glen Meadow Street
0473	5-13 North St Vital, north of Bishop Grandin Boulevard at River Road
0474	5-14 St Boniface Industrial, north of Dynamic Machine (1417 Dugald Road)
0475	5-15 Island Lakes, south of Island Shore Boulevard
0476	5-16 St Vital, south-west of Burland Avenue and Healy Crescent
0477	5-17 St Vital, south-east of Burland Avenue and Westbourne Crescent
0478	5-18 St Vital, east of Dakota Street and south of John Forsythe Avenue
0479	5-19 Island Lakes, south of Island Lakes Drive
0480	5-20 Island Lakes, north-west of Island Lakes Drive and De la Seigneurie Boulevard
0481	5-21 Southland Park, north-east of Royal Mint Drive
0482	5-22 Royalwood, south-west corner of Shorehill Drive and Aubin Drive
0483	5-23 South Transcona, north-west of St. Boniface Road and Murdock Road
0484	5-24 Royalwood, along Westwater Drive
0485	5-25 Royalwood, east of Shorehill Drive and Bridgetown Drive
0486	5-26 Buhler Recreational Park, south of the Parking Lot
0487	5-27 Buhler Recreational Park, north of Lake Shirley
0488	5-28 Sage Creek, north of Warde Avenue and east of Lagimodiere Boulevard
0489	5-29 Sage Creek, west of Des Hivernants Boulevard and north of Woodsage Crescent
0490	5-30 Sage Creek, north of Tallgrass Crescent and east of Des Hivernants Boulevard
0491	5-31 Sage Creek, east of Hydro ROW, north of Red Lily Road and south of Blue Sun Drive
0492	5-32 Sage Creek, north of Warde, west of Blue Sun Drive and east of Red Lily Road
0493	5-33 Sage Creek, east of Lagimodiere Boulevard and west of Burning Glass Road
0494	5-34 Sage Creek, north of David Friesen Road between Des Hivernants Boulevard and Burning Glass Road
0495	5-35 Sage Creek, east of Des Hivernants Boulevard and west of Hydro ROW
0496	5-36 Sage Creek, west of Wild Iris Walk and North of Prairie Smoke Drive
0497	5-37 Sage Creek, east of Wild Iris Walk and South of Vireo Lane
0498	5-39 Sage Creek, south of Warde Avenue and east of Robert Bockstael Drive
0499	5-40 Sage Creek, south of Sundog Drive

Facility Code	Facility
0500	5-41 Sage Creek, east of Ed Turner Drive and south of West Plains Drive
0501	5-42 Bonavista, west of Evelyne Reese Boulevard and north of Bow Water Drive
0502	5-43 Bonavista, east of Evelyne Reese Boulevard and south of Bonaventure Drive East
0503-0510	Spares
0511	6-1 Assiniboine Forest, south of Grant Avenue and east of Chalfont Road
0512	Spare
0513	Spare
0514	6-4 West Fort Garry Business, Lot 16 Drain west of Waverley Street
0515	6-5 Fort Garry Industrial, ditch along Bishop Grandin Boulevard
0516	6-6 Waverley Heights, north of Chancellor Drive between Swan Lake Bay and Lake Grove Bay
0517	6-7 Waverley Heights, along Lake Lindero Road
0518	6-8 Waverley Heights, south of Markham Road at Forest Lake Drive
0519	6-9 Waverley Heights, north of Markham Road and west of Forest Lake Drive
0520	6-10 Fort Richmond, north of Dalhousie Drive and east of Pembina Highway
0521	6-11 Fort Richmond, south of Dalhousie Drive and east of Pembina Highway
0522	6-12 St Norbert, north of Grandmont Boulevard and west of Nolin Avenue
0523	6-13 St Norbert, south of Grandmont Boulevard and west of Delorme Bay
0524	6-14 West Fort Garry Business, east of Kenaston Boulevard and south of Scurfield Boulevard
0525	6-15 Lindenwoods, west of Shorecrest Drive
0526	6-16 Richmond West, Point West Drive
0527	6-17 Whyte Ridge, south-west of Scurfield Boulevard and Columbia Drive
0528	6-18 Lindenwoods, north of Shoreline Drive and south of Queens Park Crescent
0529	6-19 Tuxedo West, south of West Taylor Drive and west of Dumbarton Boulevard
0530	6-20 Whyte Ridge, west of Scurfield Drive and south of Vanderbilt Drive
0531	6-21 St Norbert, south of Bellemer Drive (Grandmont Park)
0532	6-22 Lindenwoods, north of Wilkes Avenue and west of Waverly Street
0533	6-23 Tuxedo Industrial, west of Kenaston Boulevard
0534	6-24 Lindenwoods, east of Lindenwoods Drive West
0535	6-25 Linden Ridge, east of Dovercourt Drive
0536-0538	Spares
0539	6-29 Fairfield Park, south of Lee Boulevard and west of Raphael Street
0540	6-30 Kenaston Common, north of Lindenwood Drive East and west of Kenaston Boulevard
0541	6-31 Marlton, east of Oakdale Drive between Roblin Boulevard and Grant Avenue

Facility Code	Facility
0542	6-32 Waverley West (South Pointe), west of Autumnview Drive and east of Cypress Ridge Road
0543	6-33 Waverley West (South Pointe), west of Yorkvalley Way and north of Kirkbridge Drive
0544	6-34 Waverley West (South Pointe), south of Kirkbridge Drive and west of Waterstone Drive
0545	6-35 Waverley West (South Pointe), south of Northern Lights Drive and north of Turnstone Terrace
0546	6-36 Waverley West (Bridgwater Forest), south of Bridgeland Drive and east of Prominence Point
0547	6-37 Waverley West (Bridgwater Forest), west of Highland Creek Road and north of Hunterbrook Road
0548	6-38 Waverley West (Bridgwater Forest), west of Park Valley Road and south of North Town Road
0549	Spare
0550	6-40 Waverley West (South Pointe), west of Waverly Street and east of Stan Baile Drive (Not accepted by City, Naturalized, Started Warranty)
0551	4-18 Bridgewood Estates, east of Edward Schreyer opposite Concordia Avenue East
0552	6-41 Waverley West (Bridgwater Centre), west of Cooper's Town Road
0553	6-42 Waverley West (Bridgwater Centre), north-east corner of Park East Drive and Kenaston Boulevard
0554	6-43 Waverley West (Bridgwater Centre), west of Jacob’s Creek Road
0555	6-44 Waverley West (Bridgwater Centre), east of Jacob's Creek Road
0556	6-45 Waverley West (Bridgwater Forest), south-east corner North Town Road and Hill Grove Point
0557	6-46 Waverley West (Bridgwater Lakes), south of Montpellier Point
0558	6-47 Waverley West (Bridgwater Lakes), south of Clear Spring Road
0559	6-48 Waverley West (Bridgwater Lakes), north-west of Bluemeadow Road and Water Bend Road
0560	6-49 Waverley West (Bridgwater Lakes), north-west of Bridge Lake Drive and Lake Bend Road
0561	6-50 Waverley West (South Pointe), south of Canvasback Cove
0562	6-51 Waverley West (South Pointe), south-west of Northern Light Drive and Stan Bailie Drive
0563	Spare
0564	6-54 Waverley West (Bridgwater Trails), north-west of Rose Lake Court
0565	6-55 Waverley West (Bridgwater Trails), north-east of Rose Lake Court
0566	6-56 Waverley West (Bridgwater Trails), south-west of Rose Lake Court
0567	6-57 Waverley West (Bridgwater Trails), south-east of Rose Lake Court
0568	6-58 Waverley West (Bridgwater Trails), east of Eaglewood Drive between Valley Brook Road and Bridge Lake Drive

Facility Code	Facility
0569	6-59 Waverley West (Bridgwater Trails), east of Landover Drive between Willow Creek Road and Rowntree Avenue
0570	6-60 Waverley West (Bridgwater Trails), south of Appleford Gate and west of Landover Drive
0571	6-61 Waverley West (Bridgwater Trails), south-east of Wildflower Road and north of Silver Creek Road
0572	6-62 South Pointe Phase 2, west of Kenaston Boulevard and east of Ken Oblik Drive
0573	6-63 South Pointe Phase 2, south of Waverly Street and west of Ken Oblik Drive
0574	6-64 Scotswood Meadows, south-west of the intersection at ScotsWood Drive South and Rannock Avenue
0575	6-65 Ridgewood West, east of Peregrine Point and south of McKellar Drive
0576	6-66 Ridgewood West, north of Couture Crescent and east of Cassowary Lane
0577	6-68 Bishop Grandin Crossing, north of Ballantrae Drive and east of New Market Boulevard
0578	6-69 SouthPointe Phase 2, between Berry Hill Road and Hawkridge Road
0579	6-70 South Pointe Phase 2, south of Berry Hill Road and north of Granite Grove Road
0580-0599	Spares
0600 - 0799	**Water System Facilities**
0600	Shoal Lake Aqueduct Intake Facility (Yard and M97.51 Backbone Repeater) Falcon River Diversion
0601	Winnipeg Drinking Water Treatment Plant (Yard and M12.87 Backbone Repeater)
0602-0619	Spares
0620	DISCONTINUED (was Deacon Booster Pumping Station, now part of the Winnipeg Drinking Water Treatment Plant Facility Code)
0621-0629	Spares
0630	MacLean Regional Pumping Station, MacLean Reservoir
0631-0639	Spares
0640	McPhillips Regional Pumping Station, McPhillips Reservoir and M01.00 Backbone Repeater McPhillips Control Centre Collections Building
0641-0649	Spares
0650	Hurst Regional Water Pumping Station, Wilkes Reservoir
0651-0659	Spares
0660	Tache Booster Pumping Station, Tache Surge Tower
0661-0700	Spares

Facility Code	Facility
0701	DISCONTINUED (was General Shoal Lake Aqueduct & GWWD, now part of the Shoal Lake Aqueduct and Greater Winnipeg Water District (GWWD) Railway Facility Codes)
0702	St. Boniface Yards (552 and 598 Plinguet St)
0703-706	Spares
0707	Ross (Yard and M39.00 Backbone Repeater)
0708-0710	Spares
0711	Hadashville (Yard and Backbone Repeater)
0712-0750	Spares
0751	Shoal Lake Aqueduct (includes Branch 1 Aqueduct)
0752	Branch 2 Aqueduct
0753	Aqueduct Interconnection
0754	Greater Winnipeg Water District (GWWD) Railway
0755-0797	Spares
0798	Feeder Mains and Large Diameter Water Mains
0799	General Water Facilities
0800 - 0849	**Public Water Outlets and Remote Pressure Monitoring Locations**
0800	General Public Water Outlets and Pressure Monitoring
0801	Public Water Outlet – 1539 Waverley Street
0802	Public Water Outlet– Portage Avenue at Perimeter Highway (McCarthy St. and Oxbow Bend Road)
0803-0811	Spares
0812	Pressure Monitoring Location - Gateway - Gateway Road and Springfield Road
0813	Spare
0814	Pressure Monitoring Location - Brookside - Brookside Boulevard and Inkster Boulevard
0815	Spare
0816	Pressure Monitoring Location - John Black - John Black Avenue and Main Street
0817	Spare
0818	Pressure Monitoring Location - Smugglers Cove - Lagimodiere Boulevard and Smugglers Cove
0819	Spare
0820	Pressure Monitoring Location - Charing Cross - Paddington Road and Charing Cross Crescent
0821	Spare
0822	Pressure Monitoring Location - University - Pembina Highway and Chancellor Matheson Road
0823	Spare
0824	Pressure Monitoring Location - Devonshire - Plessis Road and Devonshire Drive

Facility Code	Facility
0825	Spare
0826	Pressure Monitoring Location – Redonda - Redonda Street and Kildare Avenue
0827	Spare
0828	Pressure Monitoring Location - Rouge Road - Rouge Road and Assiniboine Ave
0829	Spare
0830	Pressure Monitoring Location - St. Norbert - Rue Des Trappistes and Villeneuve Boulevard
0831	Spare
0832	Pressure Monitoring Location - Sargent - Sargent Avenue and St. James Street
0833-0849	Spares
0850 - 0899	**Solid Waste Facilities, Excluding Brady Road Landfill**
0850	General Solid Waste Facilities
0851	Pacific Avenue 4R Depot
0852	Panet Road 4R Depot
0853	Closed Landfills
N/A	Brady Road Landfill (See FC 400)
0854-0899	Spares
0900 - 0999	**Unused - Spares**

Appendix B Facility Area Codes

Area Codes – Shoal Lake Aqueduct Intake Facility

Area Code	Description
A	General or area code is not applicable
C	Chlorine Area
D	Dechlorination Building
E	Engine Shed
H	Electrical Shed
G	Gatehouse
P	Pumphouse (including Electrical & Control Room)
R	Residences
S	Staff House
U	SCADA

Area Codes – Shoal Lake Aqueduct

Area Code	Description
A	General or area code is not applicable (SCADA)
B	Backbone Repeater
C	Boathouse
D	Remote Terminal Units
M	Manholes
N	Underdrains
O	Overflow
P	Shoal Lake Aqueduct (Pipe)
Q	Branch 1 Aqueduct (Pipe)
R	G.W.W.D. Railway
S	Drainage Siphon
T	Communication Tower
U	Road Crossing
V	Venturi
W	Valve Chamber

Area Codes – Winnipeg Drinking Water Treatment Plant

Area Code	Description
A	Administration
B	Main Treatment Plant Building
C	Chemical Feed Systems (Polymer, SBS, Hydrogen Peroxide)
D	Deacon Booster Pumping Station (includes Ultraviolet Light Disinfection)
E	Electrical Substation
F	Filtration
G	Standby Power Generation
H	Plant Utilities
I	Inlet Works and Raw Water Pumping
J	Hypochlorite Generation and Feed Building
K	Enclosed Bridge
L	Dewatering Cells (Freeze Thaw Pond) / Force Main
M	General Plant Services / Miscellaneous (incl. Fire Pump Room and Electrical Room)
N	Aqueduct Bridges
O	Ozone
P	Flocculation and DAF
R	Residuals Handling
S	Bulk Chemical Storage and Feed Building
T	Treated Water Storage (Clearwell)
U	Instrumentation and Control (SCADA)
V	Civil Maintenance and Aqueduct Storage Building
W	*Future*
X	Pilot Plant
Y	Yard Piping and Valve Chamber
Z	Deacon Chemical Feed Facility

Note: The current application of area codes does not meet the intent of this standard in that it is not based upon a physical location. For example, the H area code is for all plant utilities across the entire building.

Area Codes – Regional Water Pumping Stations

Area Code	Description
A	General or area code is not applicable
B	Collections Building (McPhillips only)
C	Chlorine Building / Area
M	Main Pumping Station Building
P	SCADA, PLC, RTU
R	Reservoir and Ancillary Buildings
S	Control Centre Building (McPhillips Only)
Y	Yard Piping and Valve Chambers/ Drain Building

Area Codes – Feeder Mains and Large Diameter Water Mains

Area Code	Description
A	General or area code is not applicable
B	Valve Chambers
C	Railroad Crossings
D	Road Crossings
E	River Crossings
F	Feeder Mains
W	Large Diameter Water Mains

Area Codes – St. Boniface Yards (552 and 598 Plinguet St)

Area Code	Description
A	General or area code is not applicable
C	Civil Maintenance Buildings
G	G.W.W.D. Railway Station (Building 1)
M	Meter Shop (Building 15)
N	552 Plinguet - North Building (Building 3)
O	Storage Buildings
P	598 Plinguet - Railway Shop (Building 2)
R	Rail Car Storage (Buildings 19 & 20)
S	552 Plinguet - South Building – Shop (Building 4)
T	Track #9 Depot
W	St. Boniface Water Tower (Building 14)
Y	Yard Piping and Valve Chambers

Area Codes – Land Drainage

Area Code	Description
A	General or area code is not applicable
B	Storm Retention Basin (SRB)
F	Flood Pumping Manhole
G	Gate Chambers
L	Land Drainage Pumping Station
O	Outfalls
U	Underpass Pumping Station
W	Deep Well Pump

Area Codes – NEWPCC

Area Code	Description
A	General or area code is not applicable
B	Boilers
C	Centrate Treatment
D	Digesters
E	Electrical Building and Substation
F	Phosphorous Removal Facility
G	Pre-Aeration and Grit Removal
H	*HOLD – Potentially reserve for Headworks area code. Decision to be made under the sewage treatment upgrade program.*
M	Main Building
P	Primary Clarifiers
R	Oxygen Reactors
S	Secondary Clarifiers
U	UV Disinfection Facility
W	Sludge Dewatering
X	Leachate Receiving Facility
Y	Hauled Wastewater Receiving Facility

Notes:

1. The NEWPCC area codes will be updated as part of the NEWPCC Upgrade project.

Area Codes – SEWPCC

Area Code	Description
A	General or area code is not applicable
B	Service Building (includes Boilers, Storage Building and Standby Building)
C	Chemical / Electrical Building
D	Fermenters / Sludge Thickeners
G	Headworks (Pump and Screen building, Grit Building)
H	Sludge Gas – Thermal Oxidizer
K	High-Rate Clarification Building
M	Administration Building
P	Primary Clarifiers
R	Bioreactors / Blower Building
S	Secondary Clarifiers
T	Biofilter / Odour Control
U	UV Disinfection Building, Outfall
Y	Yard / Electrical Substation

Area Codes – WEWPCC

Area Code	Description
A	General or area code is not applicable
F	Primary Sludge Fermenters
G	DISCONTINUED - Formerly Headworks
H	Headworks
L	General and Site Works
M	Perimeter Road Pumping Station
P	Primary Clarifiers
S	Secondary Clarifiers and Bioreactors
T	DAF (Dissolved Air Flotation) Thickeners
U	Utility Building HOLD – Possible re-allocation for future UV Disinfection
V	HOLD – Possible re-allocation as the Utility Building. (See Note 1)
Y	*HOLD – Possible use for Yard. Decision to be made under the sewage treatment upgrade program.*
Z	Ponds, Effluent and Outfall

Notes:

1. *Some equipment in the WEWPCC Utility Building has already been re-identified as V.*

Area Codes – Wastewater Collections

Area Code	Description
A	General or area code is not applicable
F	Flood Pumping Stations
L	Wastewater Lift Stations
S	Sewer

Area Codes – Solid Waste BRRMF

Area Code	Description
A	General or area code is not applicable
B	Biosolids and LYW Composting
C	Administration Building
R	Brady 4R Winnipeg Depot

Area Codes – Solid Waste

Area Code	Description
A	General or area code is not applicable
C	Closed Landfills
R	4R Depot

Appendix C Master Equipment Functional Designations

Functional Designation	Description	Type	Notes
ACP	Access Control Panel	Security	
ACU	Air Conditioning Unit	Mechanical	
AD	Air Dryer	Mechanical	
ADP	Automation Device Panel	Automation	
AF	Aeration Fan	Mechanical	
AG	Agitator	Mechanical	
AHU	Air Handling Unit	Mechanical	Includes Make-Up Air Units
ANT	Antenna	Communication	
ATS	Automatic Transfer Switch	Electrical	
B	Blower	Mechanical	
BAT	Battery	Electrical	
BC	Battery Charger	Electrical	
BD	Balance Damper	Mechanical	.
BDD	Backdraft Damper	Mechanical	
BFP	Back Flow Preventer	Mechanical	
BLR	Boiler	Mechanical	
~~BS~~	~~Bar Screen~~	~~Mechanical~~	Use SCR
BV	Balancing Valve	Mechanical	Manual mechanical balancing valve (not typically adjusted by operations).
BVA	Balancing Valve Automatic	Mechanical	Automatic mechanical balancing valve.
BUS	Busway	Electrical	
C	Cable (Power)	Electrical	
CA	Cable (Automation)	Automation	
CAL	Calibration Column	Mechanical	
CAP	Capacitor	Electrical	Typically individual unit. See PFC.
CB	Circuit Breaker	Electrical	Includes air, vacuum, SF6, and moulded case circuit breakers
CBUS	Cable Bus	Electrical	
CC	Cooling Coil	Mechanical	
CDR	Condenser	Mechanical	
CE	Centrifuge	Mechanical	
CHLR	Chiller	Mechanical	

Functional Designation	Description	Type	Notes
CM	Clarifier Mechanism	Mechanical	
CMP	Compressor	Mechanical	
CN	Network Cable	Communication	
CNP	Network Cable - Patch	Communication	
CNV	Conveyor	Mechanical	Includes skimmers
CON	Contactor	Electrical	
CP	Control Panel	Electrical	
CP	Control Panel	Automation	
CPR	Cathodic Protection Rectifier	Electrical	
CRN	Crane	Mechanical	
CS	Computer Server	Automation	
CSTE	Customer Service Termination Equipment	Electrical	
CT	Cooling Tower	Mechanical	
CU	Condensing Unit	Mechanical	
CV	Check Valve	Mechanical	
CW	Computer Workstation - General	Automation	
CWD	Computer Workstation - Development	Automation	
CWO	Computer Workstation - Operator	Automation	
CYC	Cyclone	Mechanical	
DCS	Distributed Control System	Automation	
DP	Distribution Panel	Electrical	
DS	Disconnect Switch (non-fusible)	Electrical	
EDP	Electrical Device Panel	Electrical	Use for metering panels, protection panels and other Miscellaneous electrical panels.
EDU	Eductor	Mechanical	
EF	Exhaust Fan	Mechanical	
ELB	Emergency Lighting Battery Pack	Electrical	May have integrated lights.
F	Fan - General	Mechanical	
FA	Flame Arrestor	Mechanical	
FAAP	Fire Alarm Annunciator Panel	Electrical	
FACP	Fire Alarm Control Panel	Electrical	
FAS	Fire Alarm System	Electrical	
FC	Fan Coil	Mechanical	

Functional Designation	Description	Type	Notes
FD	Fire Damper	Mechanical	Utilize same equipment number as air handler.
FDP	Field Device Panel	Automation	
FDR	Feeder	Mechanical	Examples: screw feeder, chlorinator, glycol make-up unit
FDS	Fusible Disconnect Switch	Electrical	
FEX	Fire Extinguisher	Mechanical	
FG	Flap Gate	Mechanical	
FIL	Filter	Mechanical	
FU	Fuse	Electrical	
GDC	Gas Detection Controller	Automation	
GEN	Generator	Electrical	
GR	Grille / Louvre – General	Mechanical	.
GRD	Grille – Diffuser	Mechanical	.
HC	Heating Coil	Mechanical	
HCC	Heater Coil Controller	Electrical	Includes SCR and contactor based controllers.
HCE	Heating Coil, Electric	Mechanical	Duct based
HE	Heat Exchanger	Mechanical	
HF	Harmonic Filter	Electrical	
HMI	Standalone Human Machine Interface (HMI) Terminal	Automation	
HO	Hoist	Mechanical	
HOP	Hopper	Mechanical	
HP	Heat Pump	Mechanical	
HRC	Heat Recovery Coil	Mechanical	
HTR	Heater	Mechanical	General heaters, radiant, convectors, etc.
HUM	Humidifier	Mechanical	
HV	Hand/Manual Valve	Mechanical	See Section 5.2
INJ	Injector	Mechanical	
INV	Inverter	Electrical	
ISB	Intrinsic Safety Barrier	Automation	Typically only a subcomponent.
JB	Junction Box	Electrical	
JBA	Junction Box (Automation)	Automation	
JBN	Junction Box - Network	Communication	
K	Interlocking Key (Kirk Key)	Electrical	
LC	Lighting Contactor	Electrical	A lighting control panelboard would be identified as a PNL.

Functional Designation	Description	Type	Notes
LCP	Local Control Panel	Automation	
LDB	Load Bank	Electrical	
MCC	Motor Control Centre	Electrical	
MCP	Motor Circuit Protector	Electrical	
MCS	Moulded Case Switch	Electrical	
MDM	Modem	Communication	
MMS	Manual Motor Starter	Electrical	
MS	Motor Starter	Electrical	
MSP	Motor Starter Panel	Electrical	
MTR	Motor	Electrical	
MTS	Manual Transfer Switch	Electrical	
MXR	Mixer	Mechanical	
NAP	Network Access Point (Wireless)	Communication	
ND	Network Device	Communication	Utilize for general devices not otherwise in list. Example: network terminators
NFW	Network Firewall	Communication	
NGR	Neutral Grounding Resistor	Electrical	
NGW	Network Gateway	Communication	
NJ	Network Jack	Communication	
NJT	Network Jack - Telephone	Communication	
NMC	Network Media Converter	Communication	
NP	Networking Panel	Communication	
NRA	Network Radio	Communication	
NRP	Network Repeater	Communication	
NRT	Network Router	Communication	
NSP	Network Segment Protector	Communication	Typically used for PROFIBUS PA
NSW	Network Switch, Ethernet	Communication	
NT	Network Terminator	Communication	
OD	Overhead Door	Mechanical	
P	Pump	Mechanical	
PB	Pull Box	Electrical	
PCV	Pressure Control Valve (Pressure Regulator)	Mechanical	
PFC	Power Factor Correction Unit	Electrical	Bank of capacitors. May contain reactors.

Functional Designation	Description	Type	Notes
PLC	Programmable Logic Controller	Automation	
PM	Power Meter	Electrical	
PNL	Panelboard	Electrical	
PRN	Printer	Automation	
PS	Power Supply	Electrical	24VDC power supply
PSP	Power Supply Panel	Electrical	Panel containing 24VDC power supplies, fire alarm booster power supply
PSV	Pressure Safety/Relief Valve	Mechanical	
R	Reactor (various processes)	Mechanical	
RCFR	Rectifier	Electrical	
RCPT	Receptacle	Electrical	
RCTR	Reactor	Electrical	
RDT	Rotary Drum Thickener	Mechanical	
RES	Reservoir	Mechanical	Large water containment structure.
RIO	Remote I/O	Automation	
RLY	Protection Relay	Electrical	
RTU	Remote Terminal Unit	Automation	
S	Skid Package	Mechanical	
SA	Sampler	Mechanical	
SCBR	Scrubber	Mechanical	
SCP	Security Control Panel	Security	
SCR	Screen	Mechanical	Utilized for screening systems such as bar screens and perforated plate screens.
SD	Smoke Damper	Mechanical	Utilize same equipment number as air handler.
SF	Supply Fan	Mechanical	
SGR	Switchgear	Electrical	
SL	Stop Logs	Mechanical	
SLG	Sluice Gate	Mechanical	May only be utilized within existing facilities where the use of the SLG identifier is well established. The designation may not to be utilized for new or upgraded WSTP facilities. Identify as a valve (HV, XV, FV, etc.).
SPL	Splitter	Electrical	
SS	Soft Starter	Electrical	

Functional Designation	Description	Type	Notes
STR	Strainer	Mechanical	See Section 5.2
SVM	Security Video Monitor	Security	
SVR	Security Video Recorder	Security	
SW	Switch	Electrical	
TB	Terminal Block	Automation	Subcomponent Only
TBC	Travelling Bridge Collector	Mechanical	
TK	Tank	Mechanical	
TU	Terminal Unit	Mechanical	Includes CAV/VAV/Dual Duct boxes. Dampers to be identified as per Section 7.1 – Instrumentation.
TVSS	Transient Voltage Surge Suppressor	Electrical	
U	Miscellaneous Equipment Not in List	Mechanical / Electrical / Automation	Example: Water Softener
UH	Unit Heater	Mechanical	
UPS	Uninterruptible Power Supply	Electrical	
UVR	Ultra-Violet (UV) Reactor	Mechanical	
V	Vessel, Pressure Vessel	Mechanical	e.g. air receiver, glycol expansion tank
VFD	Variable Frequency Drive	Electrical	
W	Weir	Mechanical	
WCP	Washer / Compactor	Mechanical	
WGB	Waste Gas Burner	Mechanical	
XFMR	Transformer	Electrical	

Appendix D Equipment Number Ranges

Equipment Number Ranges – Shoal Lake Intake Facility

Area Code	Range	Description
All Areas	001 - 049	Major Pumping
	050 - 099	Future
	100 – 499	Process Equipment
	500 – 599	Misc. Building Equipment – Air Compressors, Sump Pumps, Fuel Systems, etc.
	600 - 699	HVAC Equipment
	700 - 799	Electrical Equipment
	800 – 899	Automation Equipment
	900 – 999	Misc., including communication and security

Equipment Number Ranges – Shoal Lake Aqueduct

Area Code	Range	Description
All Areas	TBD	Needs to be developed.

Equipment Number Ranges – Winnipeg Drinking Water Treatment Plant

Area Code	Range	Description
C – Chemical Feed	001 - 099	Process – Polymer
	100 – 899	Process – Future
	700-799	Electrical Equipment
	800 – 999	Chemical Systems
	900 – 949	Chemical Systems – Hydrogen Peroxide
	950 – 979	Chemical Systems – Sodium Bisulphite
D - Deacon Booster Pumping Station	001 - 049	Major Pumping
	050 - 099	Future
	100 - 499	Process Equipment
	500 – 599	Misc. Building Equipment – Air Compressors, Sump Pumps, etc.
	600 – 699	HVAC
	700-799	Electrical Equipment
	800-899	Automation Equipment
	900 – 999	Misc., including communication and security
F - Filtration	001 – 999	Process
H – Plant Utilities	001 - 099	HVAC
	100 - 199	Fire Pumps
	200 - 299	Auxiliary Building HVAC
	300 - 399	Building Safety and Security
	400 - 499	Process Pumps
	500 - 599	Sanitary Sumps
	600 - 699	Electrical Distribution
	700 - 799	Potable Water
	800 - 899	Unallocated
	900 - 950	Emergency Generator
	951 - 999	Electrical Substation
I – Inlet and Raw Water	001 - 999	Process
J – On-Site Hypochlorite Generation	001 - 999	Process
L – Freeze Thaw Pond	001 - 999	Process
O - Ozone	001 - 999	Process
P – Flocculation and DAF	001 - 999	Process
R – Residuals Handling	001 - 999	Process
S – Bulk Chemical Storage	001 - 999	Process
T – Treated Water Storage and Handling (Clearwell)	001 - 999	Process
U – Ultraviolet Light Disinfection	001 - 999	Process

Area Code	Range	Description
X – Pilot Plant	001 - 999	Process
Y – Yard Piping and Valve Chambers	001 - 099	Surge Towers
	100 - 199	Yard Piping
	200 - 299	Yard Lighting
Z – Deacon Chemical Feed Facility	001 – 099	Process Equipment
	100 - 199	Chemical Systems – Hydrofluosilicic Acid
	200 - 299	Chemical Systems – Phosphoric Acid
	300 - 499	Process Equipment
	500 - 599	Misc. Building Equipment – Air Compressors, Sump Pumps, etc.
	600 - 699	HVAC
	700 - 799	Electrical Equipment
	800 - 899	Automation Equipment
	900 - 999	Misc., including communication and security

Note: The above WTP process ranges are largely based upon existing designations. In the event of future significant upgrades, some realignment may be required to fully align with this standard.

Equipment Number Ranges – Regional Water Pumping Stations

Area Code	Range	Description
All Area Codes	001 - 049	Major Pumping
	050 - 099	Future
	100 – 499	Process Equipment
	500 – 599	Misc. Building Equipment – Air Compressors, Sump Pumps, etc.
	600 - 699	HVAC Equipment
	700 - 799	Electrical Equipment
	800 – 899	Automation Equipment
	900 – 999	Misc., including communication and security

Equipment Number Ranges – Collections Facilities

Area Code	Range	Description
L – Wastewater Lift Stations or F – Flood Pumping Station or U – Underpass Pumping Station	01 – 49	Reserved for Process Equipment
	01 - 09	Pumps
	10 – 19	Wet Well / Intake Equipment
	20 - 39	Misc. Process
	40 - 49	Discharge / Forcemain
	50 - 59	Misc. Building Equipment – Air Compressors, Backflow Preventer, etc.
	60 - 69	HVAC Equipment
	70 - 79	Electrical Equipment
	80 – 89	Automation Equipment
	90 - 99	Misc., including communication and security
S – Sewer	01 – 79	Sewer – Misc..
	80 - 89	Sewer – Before Outfall
	90 - 99	Sewer - Outfall

Note: The Collections facilities utilize two digit equipment numbers due to the limited amount of equipment located within each facility. Instrumentation loop numbers within Collections facilities have three digits.

Equipment Number Ranges – SEWPCC and WEWPCC Wastewater Treatment Facilities

Area Code	Range	Process Code	Description
All Area Codes	001 - 099	0	Area Specific Processes
	100 – 199	1	Area Specific Processes
	200 – 299	2	Area Specific Processes
	300 – 399	3	Area Specific Processes
	400 – 499	4	Area Specific Processes
	500 – 599	5	Misc. Building Equipment – Air Compressors, Backflow Preventer, etc. (May be allocated for process as required)
	600 - 699	6	HVAC Equipment
	700 - 799	7	Electrical Equipment
	800 – 899	8	Automation Equipment
	900 – 999	9	Misc., including communication and security

Note: Refer to the IMS for further definition of Equipment Number ranges and Process Codes within the Wastewater Treatment Facilities.

Equipment Number Ranges – NEWPCC Wastewater Treatment Facility

Area Code	Range	Process Code	Description
All Area Codes	0001 - 0999	0	Area Specific Processes
	1000 – 1999	1	Area Specific Processes
	2000 – 2999	2	Area Specific Processes
	3000 – 3999	3	Area Specific Processes
	4000 – 4999	4	Area Specific Processes
	5000 – 5999	5	Misc. Building Equipment – Air Compressors, Backflow Preventer, etc. (May be allocated for process as required)
	6000 – 6999	6	HVAC Equipment
	7000 – 7999	7	Electrical Equipment
	8000 – 8999	8	Automation Equipment
	9000 – 9999	9	Misc.., including communication and security

Note: Refer to the IMS for further definition of Equipment Number ranges and Process Codes within the Wastewater Treatment Facilities.

Appendix E Sample Drawings

The following process and instrumentation diagram drawings were created as sample drawings.

South End Water Pollution Control Centre

City Drawing Number	Sheet	Rev	Project / Area	TITLE
1-0102A-SK01	001	00		PROCESS & INSTRUMENTATION DIAGRAM, LEGEND AND DETAILS
1-0102A-SK01	002	00		PROCESS & INSTRUMENTATION DIAGRAM, LEGEND AND DETAILS
1-0102A-SK01	003	00		PROCESS & INSTRUMENTATION DIAGRAM, LEGEND AND DETAILS
1-0102S-SK02	001	00	SECONDARY CLARIFIERS	PROCESS & INSTRUMENTATION DIAGRAM, CLARIFIER 1, PROPOSED IDENTIFICATION
1-0102S-SK03	001	00	SECONDARY CLARIFIERS	PROCESS & INSTRUMENTATION DIAGRAM, CLARIFIER 2, PROPOSED IDENTIFICATION
1-0102S-SK04	001	00	SECONDARY CLARIFIERS	PROCESS & INSTRUMENTATION DIAGRAM, CLARIFIER 3, PROPOSED IDENTIFICATION
1-0102S-SK05	001	00	SECONDARY CLARIFIERS	PROCESS & INSTRUMENTATION DIAGRAM, SECONDARY CLARIFIER EFFLUENT & SAMPLE SYSTEM, PROPOSED IDENTIFICATION
1-0102S-SK06	001	00	SECONDARY CLARIFIERS	PROCESS & INSTRUMENTATION DIAGRAM, RETRUN ACTIVATED SLUDGE PUMP P-S101, PROPOSED IDENTIFICATION
1-0102S-SK07	001	00	SECONDARY CLARIFIERS	PROCESS & INSTRUMENTATION DIAGRAM, REPURN ACTIVATED SLUDGE PUMPS P-S102 & P-S103, PROPOSED IDENTIFICATION
1-0102S-SK08	001	00	SECONDARY CLARIFIERS	PROCESS & INSTRUMENTATION DIAGRAM, REPURN ACTIVATED SLUDGE PUMPS P-S108 & P-S109, PROPOSED IDENTIFICATION
1-0102S-SK09	001	00	SECONDARY CLARIFIERS	PROCESS & INSTRUMENTATION DIAGRAM, RAS HEADER, PROPOSED IDENTIFICATION
1-0102S-SK10	001	00	SECONDARY CLARIFIERS	PROCESS & INSTRUMENTATION DIAGRAM, WASTE ACTIVATED SLUDGE PUMPS P-S202 & P-S203, PROPOSED IDENTIFICATION

Marion Wastewater Pumping Station

City Drawing Number	Sheet	Rev	Project / Area	TITLE
1-0159L-SK01	001	00		PROCESS & INSTRUMENTATION DIAGRAM, WASTEWATER PUMPING
1-0159L-SK02	001	00		PROCESS & INSTRUMENTATION DIAGRAM, VENTILATION

MacLean Water Pumping Station

City Drawing Number	Sheet	Rev	Project / Area	TITLE
1-0630A-SK01	001	00		PROCESS & INSTRUMENTATION DIAGRAM, LEGEND & DETAILS
1-0630A-SK01	002	00		PROCESS & INSTRUMENTATION DIAGRAM, LEGEND & DETAILS
1-0630A-SK01	003	00		PROCESS & INSTRUMENTATION DIAGRAM, LEGEND & DETAILS

City Drawing Number	Sheet	Rev	Project / Area	TITLE
1-0630C-SK01	001	00		PROCESS & INSTRUMENTATION DIAGRAM, CHLORINE CYLINDER SHUTOFF VALVES
1-0630C-SK02	001	00		PROCESS & INSTRUMENTATION DIAGRAM, CHLORINATION SYSTEM
1-0630M-SK02	001	00		PROCESS & INSTRUMENTATION DIAGRAM, SUCTION HEADER
1-0630M-SK03	001	00		PROCESS & INSTRUMENTATION DIAGRAM, PUMP P-M021
1-0630M-SK04	001	00		PROCESS & INSTRUMENTATION DIAGRAM, PUMP P-M022
1-0630M-SK05	001	00		PROCESS & INSTRUMENTATION DIAGRAM, PUMP P-M023
1-0630M-SK07	001	00		PROCESS & INSTRUMENTATION DIAGRAM, PUMP P-M025
1-0630M-SK08	001	00		PROCESS & INSTRUMENTATION DIAGRAM, PUMP P-M026
1-0630M-SK09	001	00		PROCESS & INSTRUMENTATION DIAGRAM, DISCHARGE HEADER
1-0630M-SK10	001	00		PROCESS & INSTRUMENTATION DIAGRAM, COMPRESSED AIR SYSTEM
1-0630M-SK11	001	00		PROCESS & INSTRUMENTATION DIAGRAM, GEN-M751 & GEN-M752
1-0630M-SK12	001	00		PROCESS & INSTRUMENTATION DIAGRAM, MISC.ELLANEOUS
1-0630R-SK01	001	00		PROCESS & INSTRUMENTATION DIAGRAM, RESERVOIR FILL VALVES
1-0630R-SK02	001	00		PROCESS & INSTRUMENTATION DIAGRAM, RESERVOIR CELLS
1-0630Y-SK01	001	00		PROCESS & INSTRUMENTATION DIAGRAM, DISCHARGE TO FEEDERMAINS