

CITY OF WINNIPEG

Environment Act Proposal (EAP) Report

4R Winnipeg Depot – Pacific Avenue Resource Management Facility

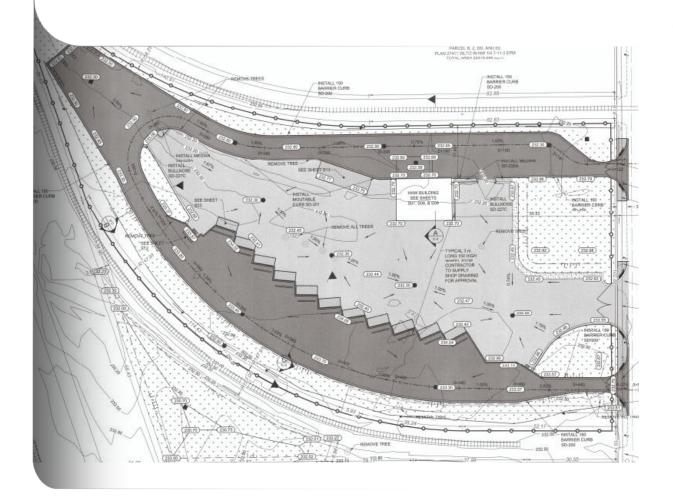


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Executive Summary

The main purpose of the 4R Winnipeg Depot (4R Depot) at the Pacific Avenue Resource Management Facility (Pacific) is to receive, collect, and temporarily store unwanted residential materials (e.g., divertible, recyclable, and HHW wastes) prior to transfer of the commodities to one of the product specific management facilities in Winnipeg. The 4R Depot will include an HHW/e-Waste building to receive and prepare residential HHW and e-Waste for transport to an authorized receiver. Materials planned for receipt at the HHW/e-Waste building include:

- Paint
- Flammable liquids
- Toxic materials
- Corrosive materials
- Light bulbs and ballasts
- Automotive and household batteries
- Propane tanks
- Used oil

All HHW and e-Waste will be collected and temporarily stored in accordance with the Product Care Association's Manitoba Collection Site Guidelines, HHW Collection Sites (October 2012). Used oil and filters will be managed in accordance with the Used Oil, Oil Filters and Containers Stewardship Regulation (MR 86/97).

Site security will include the perimeter chain link fence that surrounds the Pacific facility and a new CCTV system covering the 4R Depot. The entrance gate will be closed and locked outside operating hours. The HHW/e-Waste building will also be locked when the facility is closed.

Design features of the HHW/e-Waste building and staging/unloading area will mitigate potential impacts to the environment. The building and staging area will be located on a relatively impervious (concrete/asphalt) surface. Surface water within the staging area will flow to a dedicated catch basin, which will include a "drain guard" to filter out hydrocarbons, sediment, and other contaminants. The outlet for the catch basin will also have an isolation valve to control flows from the area when containment is required. Portable spill and containment kits will also be strategically placed at the HHW/e-Waste building, and site staff will be trained on how to use them.

It is the opinion of Dillon Consulting Limited (Dillon) that the risk of environmental impacts as a result of the HHW building at the 4R Depot is insignificant, given the mitigative design features of the site.



1.0 Introduction and Background

In 2011 the City of Winnipeg (City) received the final report for the Comprehensive Integrated Waste Management Plan (CIWMP). The CIWMP recommends the creation of up to four Community Resource Recovery Centres (herein called 4R Depots) across the City. The CIWMP report is publically available here: http://garbage.speakupwinnipeg.com/files/2011/09/CIWMP-FINAL-REPORT.pdf

The primary purpose of 4R Depots is to recover and divert unwanted residential materials from disposal at a landfill. Waste materials from commercial or industrial sources will not be accepted. Although there are some facilities within the City that collect specific recoverable resources (e.g., used batteries, the City's curb-side recycling collection program, electronic waste (e-Waste) days), the City has elected to develop 4R Depots to provide a "one-stop-shop" for residents to dispose of unwanted materials, including household hazardous waste (HHW) and e-Waste. The 4R Depots will also provide an opportunity for the City to improve its waste diversion rate.

Site Use Description

1.1

The 4R Depot will be available to residents of the City for the disposal of residential waste materials. The Pacific 4R Depot is a new depot with no existing data describing the volume of customers using the services offered. Based on load count data provided by the City, the "hourly traffic design volume" used to conduct a traffic analysis for the BRRMF 4R Winnipeg Depot is 112 residential vehicles. It is estimated that the Pacific 4R Depot will attract 40 percent of customers that are currently using the BRRMF 4R Winnipeg Depot, or 45 vehicles per hour. The site is divided into two distinct areas based on the type of material:

- Free Cycle materials with product stewardship programs, e.g., recyclables, yard waste, HHW, and e-Waste; and,
- Garbage residual materials.

Figure 1 shows the site layout and location of the HHW/e-Waste building within the 4R Depot site. This application is related solely to the acceptance of HHW and e-Waste in the Free Cycle area. A brief description of the 4R Depot site as it relates to the HHW/e-Waste building follows.

Residential traffic will enter the 4R Depot from Pacific Avenue. The single lane entrance will expand into two lanes; one by-pass lanes and one "unloading" lane for cardboard, leaf and yard waste, and recyclables. A second "unloading" lane will also be provided at the HHW/e-Waste building.

The HHW/e-Waste building will be located within the 4R Depot. The building will be the first "stop" for residents to dispose of materials within the 4R Depot. All users will exit the site onto Pacific Avenue.





Figure 1: Site Layout

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1.2 **HHW and e-Waste Quantities**

The City's Solid Waste Department provided load count data, material audit data, and other information (e.g., Speak-Up Winnipeg) to estimate the anticipated quantities of the HHW and e-Waste that will be received at the HHW/e-Waste building within the 4R Depot.

A summary of the estimated annual HHW and e-Waste quantities and collection/removal frequency is presented on Table 1below. In general, as the facility is only open to residential users, individual deliveries/drop-off of materials is anticipated to be in relatively small quantities (e.g., liquid wastes <5 litres/container). The Pacific 4R Depot is estimated to receive 25 percent of the total annual HHW and e-Waste quantities.

Table 1: Estimated Annual HHW and e-Waste Quantities

Commodity	Estimated Annual Quantity	Units	Estimated Removal Frequency
Flammables			
Paint	170,000	Litres	Weekly
Flammable liquids	15	Tub skids	Weekly
Used oil	75,000	Litres	Semimonthly
Used oil filters	2,000	Units	Semimonthly
Flammable gas			
Non-Program Cylinders (propane, Freon, medical oxygen, etc.)	1.000	Cylinders	Monthly
Toxics and non-regulated			
Toxic materials	20	Drums	Weekly
Compact fluorescent bulbs	40,000	Bulbs	Weekly
Fluorescent tubes	20,000	Tubes	Monthly
Light ballasts (PCB)	20	Drums	Weekly
Sharps (syringes, lancets)	1	kg	Bi-weekly
e-Waste	400	Tonnes	Bi-weekly
Corrosives			
Corrosive materials	14	Drums	Weekly
Household batteries	3	Drums	Weekly
Automotive batteries	25	Tonnes	Monthly
Lead Acid Batteries	20	Tonnes	Monthly

NOTES:

- 1. Tub-skid capacity is 432 liters.
- 2. Drum capacity is 200 litres.
- Cylinder capacity may range from 3 to 50 litres.

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2.0 Site Features and Operations

The HHW/e-Waste building will have at least one full-time attendant on duty whenever the facility is open. Mobile equipment within the building may include a manual pallet jack or dolly. A high standard of equipment maintenance and good housekeeping and operational practices will be implemented at all times.

In the summer months, the facility will operate seven day a week, from 8:00 am to 8:00 pm (subject to change with notice). In the winter months, the facility will operate seven days a week, from 8:00 am to 6:00 pm (subject to change with notice). No staff will be present at the depot outside of these operating hours. Site security will include the existing perimeter chain link fence that surrounds the Pacific Depot and a new closed circuit television (CCTV) system covering the 4R Depot. The entrance gate will be closed and locked outside operating hours. The HHW/e-Waste building will also be locked when the facility is closed.

2.1 Commodity Collection and Storage

HHW and e-Waste will be received at the site under a sheltered staging area. The commodities will be transferred to designated areas within an HHW/e-Waste building. **Figure 2** shows the proposed layout of the HHW/e-Waste building and staging area.

All HHW and e-Waste will be collected and temporarily stored in accordance with the Product Care Association's Manitoba Collection Site Guidelines, HHW Collection Sites (October 2012). Used oil and filters will be managed in accordance with the Used Oil, Oil Filters and Containers Stewardship Regulation (MR 86/97). Liquid PCB will not be accepted. PCB free light ballasts will be considered e-waste.

A summary of HHW and e-Waste storage and containment is presented on **Table 2** below. Within the building, space will be maintained around the storage and containment units to permit inspections for leaks, and to allow labelling to be visible. A brief description of the storage systems follows.

Commodity		Storage
Flammables		
	Paint	Tub skid
	Flammable liquids	Tub skid
	Used oil	Double-walled 2,400L tank
	Used oil filters	Lined drum
Flammable Gas		
	Propane tanks	Fenced in area on exterior HHW building

Table 2: HHW and e-Waste Storage/Containment





Commodity	Storage		
Toxics and non- regulated			
Toxic Materials	Drum		
Compacted Fluorescent bulbs	Drum		
Fluorescent tubes	Drum		
e-Waste	Pallet		
Sharps	Sharps Container*		
Corrosives			
Corrosive materials	Drum		
Household batteries	Drum		
Automotive batteries	Pallet		

^{*} The sharps container will be in accordance with industry standards, including features to prevent retrieval after disposal and locking lids to provide permanent containment for final disposal.

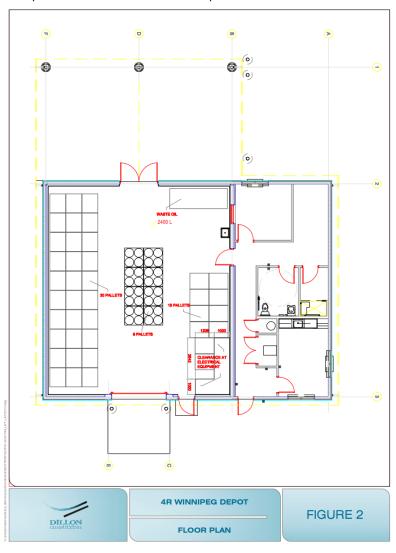


Figure 2: Floor Plan

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2.1.1 HHW/e-Waste Building

The HHW/e-Waste building will provide a safe and secure temporary storage of hazardous materials. The HHW/e-Waste Building will be a single storey building with the storage area of 160 m² for collecting, sorting, and temporary storage of the materials listed on **Table 1**. Building construction will be wood framed walls clad in pre-finished metal supporting pre-engineered wood trusses with an approximate wall height of 4.2 metres (14 feet). The building will have a drive through area with canopy above, open sides, and a double door access into the interior storage area. The interior of building will be an open space.

Of primary importance for the collection and temporary storage of these commodities is protection from the elements and adequate ventilation. The HHW/e-Waste building and staging area will be situated over a relatively impervious surface (asphalt) to mitigate infiltration of potential impacts below the surface. The interior floor will be concrete slab on grade with concrete curbs (1 metre high starter wall) to form containment areas. Surface water in the sheltered staging area of the HHW/e-Waste building will be directed to a dedicated catch basin to provide the opportunity to contain and isolate potential spills that may occur within the sheltered HHW/e-Waste staging area of the site. The catch basin will include a "sump" with a capacity of approximately 230 litres.

Spill containment requirements are achieved through site design (described above) and the strategic placement of appropriately equipped portable spill response kits (provided by Product Care Association Manitoba, PCA). The sheltered staging area outside the building will have a dedicated catch basin and drainage outlet such that spills may be contained and isolated.

The HVAC system include manual control of "occupied mode" (1.5 air changes per hour of tempered air) and "flush mode" (six air changes per hour of non-tempered air) ventilation. Building ventilation may also be achieved via passive means by opening doors (person and roll-up).

Unit heaters will be included throughout the HHW building to maintain a minimum 10°C indoor temperature for typical Winnipeg outdoor design winter temperatures dictated by the Manitoba Building Code. The unit heaters will be controlled by their individual thermostats. The ventilation system will provide "free cooling" in the summer months.

Doorways (person doors and roll-up doors) will be kept unobstructed at all times. The building will also include an ambient air monitor to alert the attendant when potentially harmful gases (e.g., carbon monoxide, solvents, hydrocarbons, lead, nitrogen oxides, ozone, particulate matter, sulfur dioxide, sulfur) have accumulated in the building and (additional) doors should be opened to ventilate the building.



To further reduce spill and ventilation concerns, operational procedures will include a strict policy stating that containers received will not be opened and (liquid) materials will not be mixed or consolidated except for used oil, which will be "bulked" in an aboveground steel horizontal double wall storage tank with a capacity of 2,400 litres.

Hazardous materials to be moved on carts and stored on racks, or deposited into tub skids or drums (supplied by others). Flammable liquids will be stored in tub skids (supplied by others), in their original containers. Open containers will not be permitted within the building.

The building will be equipped with a portable, heated eyewash station, as well as compressed eyewash bottles supplied by PCA.

2.1.2 Cages

Propane cylinders will be caged against one of the exterior building walls. This cage will be lockable beneath the building eaves/overhang and will remain locked when not in use.

2.1.3 Pallets

Automotive batteries will be placed on wooden pallets in a dedicated area within the HHW/e-Waste building. Cardboard will be placed between each level of batteries. Pallets will be loaded to a maximum of three levels high. When each pallet is full, it will be wrapped in plastic. At any given time, five to a maximum of seven pallets will be stored in the building. The batteries may alternatively be stored in tub skids. A registered/licensed hauler will pick up the pallets from the 4R Depot where required by Transportation of Dangerous Goods (TDG) Regulations. Batteries will not be transported by the City. Materials will be hauled directly to the appropriate processing facility.

e-Waste will be placed on wooden pallets in a dedicated area within the HHW/e-Waste building. Pallets will be loaded to a maximum of one metre high. When each pallet is full, it will be wrapped in plastic for transport to an authorized facility by a registered hauler.

2.1.4 Non-Regulated Items

"Non-program" or "non-regulated" materials are materials that do not fall under the categories of the Waste Reduction and Prevention Act, but are nonetheless hazardous and may be delivered to the site by residents for disposal/management.

While the City does not intend to accept "non-program" or "non-regulated" items, it is anticipated that residents will deliver some of these items to the site for disposal. To accommodate these items, a dedicated storage barrel will be utilized to temporarily store these materials, which will typically be transported to a registered receiver (e.g., Miller Environmental or Clean Harbour) for management and disposal on a weekly basis. However, the frequency may be adjusted depending on the quantity and types of materials received.



2.2 Material Loading for Transport off-Site

Materials will be stored within a sheltered area of the HHW/e-Waste building until a registered hauler picks them up. All materials will be transported by a licensed carrier who has a valid license to transport hazardous waste pursuant to Manitoba Regulation 175/87.

Loading involves moving the containers (pallets, drums, and tub skids) through one of the roll-up doors to the exterior of the building using a pallet mover or dolly. Containerized materials will be immediately placed onto the transport vehicle. The carrier is responsible for the loading of containerized materials. In case of any spillage, both the HHW/e-Waste building and the carrier will have spill kits on hand for containment and clean up. Attendants will be trained on the appropriate use of the spill kit.

2.2.1 Used Oil

Used oil will be managed at the site in accordance with the CCME's Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products, as well as the National Fire Code of Canada (NFCC).

Used oil will only be collected for disposal by a registered used oil hauler; site staff will not handle or manage the transfer of used oil from the storage tank to the oil hauling vehicle. The used oil hauler will be responsible to take all reasonable steps to prevent spills.

When the storage tank is being unloaded, the used oil hauler will be required to remain in constant view of the fill pipe, and in constant attendance at the delivery control valve. Used oil haulers will be instructed that suction hoses are not to be dropped or inserted into the used oil storage tank during the product removal process.

A spill kit designed specifically for the planned 2,400 litre above ground used oil storage tank will be located inside of the building. Frequent checks on the tank will be performed to determine if there are leaks in the tank, as described in **Section 8.0**. The location of the used oil storage tank is shown in **Figure** 2.



Description of the Proposed Development 3.0

The City has selected 1120 Pacific Avenue, the area bound by Pacific Avenue (north), and rail spurs (south, east and west), for the development of a community resource recovery centre (i.e., 4R Depot). The HHW/e-Waste building will be constructed within the 4R Depot site.

Land Uses and Designations 3.1

Adjoining land uses to the Pacific Depot include commercial and industrial in all surrounding directions.

In summary, the 4R Depot is planned for development on land currently owned by the City. Considering the purpose of this site, development of the 4R Depot should be permitted to include the receipt and temporary storage of HHW and e-Waste. Construction of the site is planned for the spring/summer of 2016, with the 4R Depot scheduled for opening late 2016 or early 2017.



4.0 Funding

No grant or loan of capital funds has been requested by the City of either the provincial or federal government for this development.

5.0 Approval Status

The City will not need an Environment Act License for the Pacific 4R Depot site.

A submission for a DGHTA License application is being filed to the Province for the receipt of lead acid batteries and this report is submitted to permit the receipt of other regulated materials (e.g., HHW).

A Development Permit and Building Permit are being applied to the City's Planning, Property and Development Department (PP&D).

As site attributes and operations do not impinge upon any known federal interest or fiduciary duty, there are no known requirements for federal permits, approvals, or authorizations.



Public Consultation 6.0

In 2011, the City hosted public consultations in respect of the developments at the BRRMF. An Open House was convened in St. Norbert on January 23, 2014, for specific consultations on community views about the proposed 4R Depots. In general, members of the public were pleased with the planned development of the 4R Depots, which provide them with improved opportunities to recycle and divert waste from the landfill.



Description of Existing Environment in the Project Area

The segment of land at Pacific Avenue that has been selected for the development of the 4R Depot is currently vacant. The site has been used as a storage site since 1948. The City took over the ownership of the property in 1991 and it has been vacant since.

An Environmental Site Assessment (ESA) was conducted for the Pacific 4R Depot (Enhanced Phase I/II Environmental Assessment, 1120 Pacific Avenue, Lot B-Winnipeg, Manitoba, Dillon Consulting Limited, dated April 2016) to determine whether the site is subjected to actual or potential contamination. It has been concluded that there are no significant adverse effects from that can be discerned from analysis of publicly available data describing community health, air quality, and groundwater quality.



7.0

Description of Environmental Effects of the Proposed Development

Although the majority of materials planned for receipt at the 4R Depot are relatively inert, some of the materials planned for receipt at the HHW/e-Waste building within the 4R Depot (i.e., dangerous goods) have the potential to impact the environment. The dangerous goods planned for receipt are:

- HHW (paint, flammable liquids, toxic materials, corrosive materials, light bulbs);
- e-Waste;

8.0

- Automotive Batteries;
- Propane Tanks; and,
- Used Oil and Filters.

Design features of the HHW/e-Waste building and staging/unloading area will mitigate potential impacts to the environment. The building and staging area will be located on a relatively impervious (concrete/asphalt) surface. A dedicated containment system, i.e., a double-walled tank, will be utilized for used oil. The grade surrounding the building will be designed such that only surface water within the building and staging areas (i.e., beneath the building canopy) will flow to a dedicated catch basin (see Figure 1). The catch basin will include a "drain guard", which filters out hydrocarbons, sediment, and other contaminants. The base of the catch basin includes a small sump in which spills may be temporarily contained. The outlet for the catch basin will also have an isolation valve to control flows from the area when containment is required.

The depot will be operated by staff trained in Transportation of Dangerous Goods Regulations, facility operating procedures and spill clean-up procedures. Effective neutralizing materials shall be conveniently located for clean-up of spills and an eyewash station shall be located in close proximity to the facility.

An emergency response contingency plan will be in effect for the site, and will be submitted to Manitoba Conservation and Water Stewardship and the City emergency response departments for review prior to opening the facility to the public.



Mitigation Measures and Residual Environmental Effects

Storage of HHW/e-Waste materials received is indoors and contained within the HHW/e-Waste building, which is fully covered by a metal roof and has a concrete floor throughout. The staging area is also sheltered and includes a dedicated surface water collection system so that spills may be contained and isolated from the rest of the site.

Upon receipt of HHW/e-Waste materials at the staging area, the site attendant will move the materials into the building and place them in their dedicated containment unit. When a containment unit is nearing maximum capacity, the associated product steward will be contacted to pick-up the materials.

Transportation of Dangerous Goods Regulations, first aid, fire, and spill containment training will be provided to all employees on-site who work at the HHW/e-Waste building. The following requirements, will apply to all employees who handle materials brought to the HHW/e-Waste building by residents:

- Personal protective equipment requirements eye protection, hand protection, metatarsal hard-toed boots, long sleeve shirts, and pants;
- No smoking in proximity to the HHW/e-Waste building;
- Sparks and open flames kept away from HHW/e-Waste building;
- Metal objects not to be placed on top of the containment units;
- Cardboard or other type of acceptable insulation placed between levels of containment units (e.g., batteries on pallet);
- Containment units to be kept right side up at all times; and,
- When full, containment units will be immediately sealed (e.g., pallets wrapped in plastic stretch wrap) and labelled according to WHIMIS symbols indicating the hazard.

Lastly, good housekeeping practices will be maintained at the HHW/e-Waste building and staging area at all times. The staging area will be left uncluttered.

The proposed development is expected to result in insignificant environmental effects to the site or its surroundings.

Fire Safety Equipment

9.1

9.0

Staff working at the HHW building will receive fire extinguisher use training.

Appropriate fire extinguishers will be mounted on the building walls, adjacent to their respective material types (e.g., Class B fire extinguisher will be located beside flammable liquids; Class C fire extinguisher will be located beside e-Waste).



Follow-up Plans, including Monitoring and Reporting 10.0

Regularly scheduled inspections of specialized collection systems and general housekeeping tasks (e.g., picking up litter, reviewing surface water management system) will be included in site operations. The regularly scheduled inspections will promptly identify potential leaks or spills, thereby mitigating off-site migration of potential environmental impacts.

Following development of a third, and fourth 4R Depot in the City a reduction in residential traffic and use is anticipated. The opening of the additional 4R Depots is expected to result in a decrease in the quantity of commodities received at each site, which could permit an expansion of the types of commodities received at the 4R Depot.

Expanding the types of commodities received at each site would be coordinated with the product stewards of the specific commodities to ensure the availability of a viable market for the new commodities. One option for the management of the additional commodities is a Re-Use Centre.



11.0 Conclusions

Potential environmental impacts as a result of the development will be mitigated by design features and site operational practices. Impacts to the soil will be mitigated by the use of relatively impervious surfaces throughout the majority of the site. Impacts to surface water from materials received will be mitigated by the HHW/e-Waste building's independent surface water management system, which will be isolated from the surface water management system for the remainder of the 4R Depot.

All materials received will be stored in approved containment units. The HHW/e-Waste building will include curbing to contain spills inside the building. Used oil will be collected in an approved double-walled tank to mitigate potential spills.

It is the opinion of Dillon that the risk of environmental impacts at the 4R Depot site as a result of HHW/e-Waste building operations is low and adequate measures are included in the site design to mitigate potential migration of environmental impacts off-site. In addition, site operational practices will mitigate potential migration of environmental impacts off-site.

Appendix A

Drawings





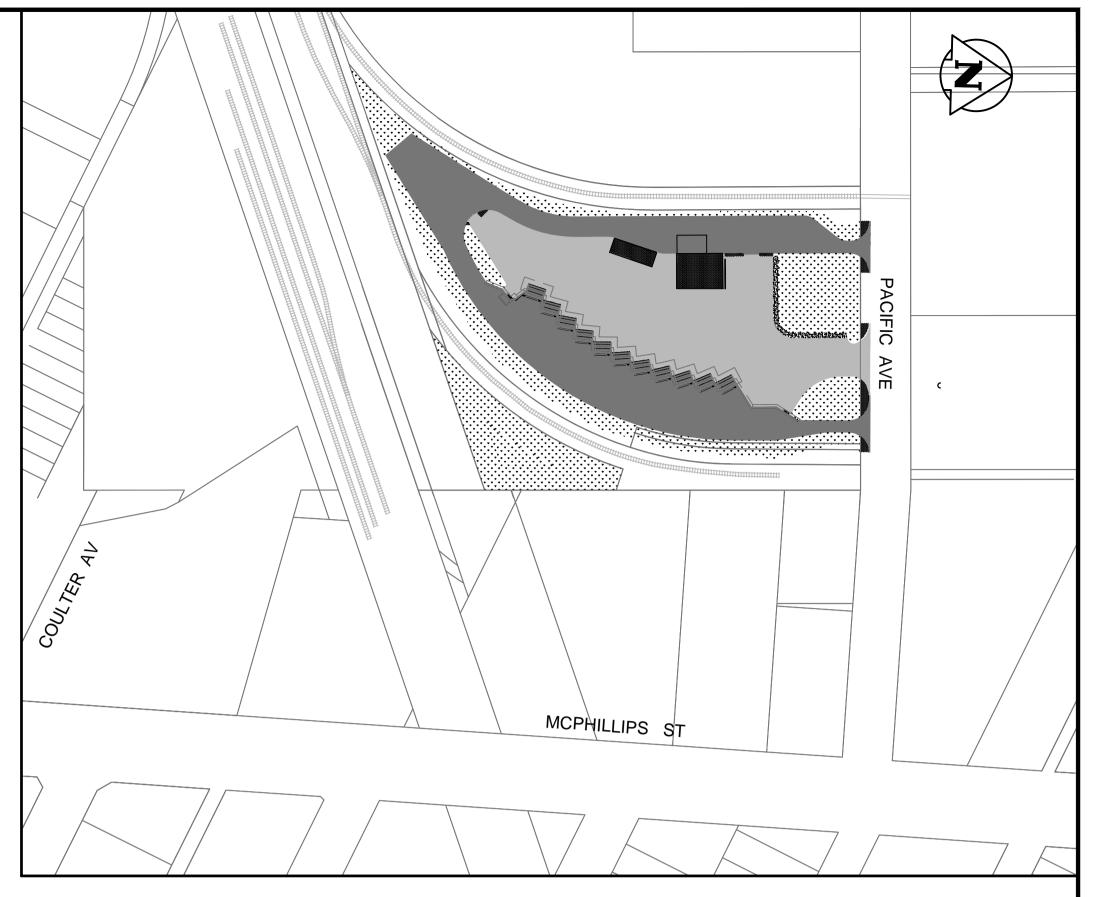
THE CITY OF WINNIPEG

WATER AND WASTE DEPARTMENT

4R WINNIPEG DEPOT PACIFIC AVENUE

BID OPPORTUNITY 1113-2015

SHT. NO.	DRAWING NO.	DRAWING TITLE	CITY DRAWING NO.
1 of 43	00	COVER	1-0851A-D0001-001
2 of 43	C-1	SITE GEOMETRY	1-0851A-C0001-001
3 of 43	C-2	GRADING PLAN	1-0851A-C0002-001
4 of 43	C-3	PROFILES	1-0851A-C0003-001
5 of 43	C-4	UNDERGROUND UTILITIES AND STORM SEWER	1-0851A-C0004-001
6 of 43	C-5	TYPICAL SECTIONS	1-0851A-C0005-001
7 of 43	C-6	STANDARD POND AND FENCING DETAIL	1-0851A-C0006-001
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11 of 43	S-3	RETAINING WALL PARTIAL PLAN AND DETAILS	1-0851A-S0003-001
12 of 43	S-4	RETAINING WALL PLAN DETAILS, RAILING ELEVATIONS AND DETAILS	1-0851A-S0004-001
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15 of 43	S-7	HHW EWASTE BUILDING PLAN @ EL. 231.90, GENERAL NOTES	1-0851A-S0007-001
16 of 43	S-8	HHW EWASTE BUILDING @ EL. 232.75, DETAILS	1-0851A-S0008-001
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39 of 43	E-7	SECURITY CAMERA SYSTEM	1-0851A-E0007-001
40 of 43	E-8	SECURITY SYSTEM CAMERA DETAILS	1-0851A-E0008-001
41 of 43	E-9	SITE PLAN LIGHTING LAYOUT	1-0851A-E0009-001
42 of 43	E-10	SITE PLAN SECURITY CAMERAS LAYOUT	1-0851A-E0010-001
43 of 43	E-11	SITE - ELECTRICAL DETAILS	1-0851A-E0011-001



LOCATION PLAN

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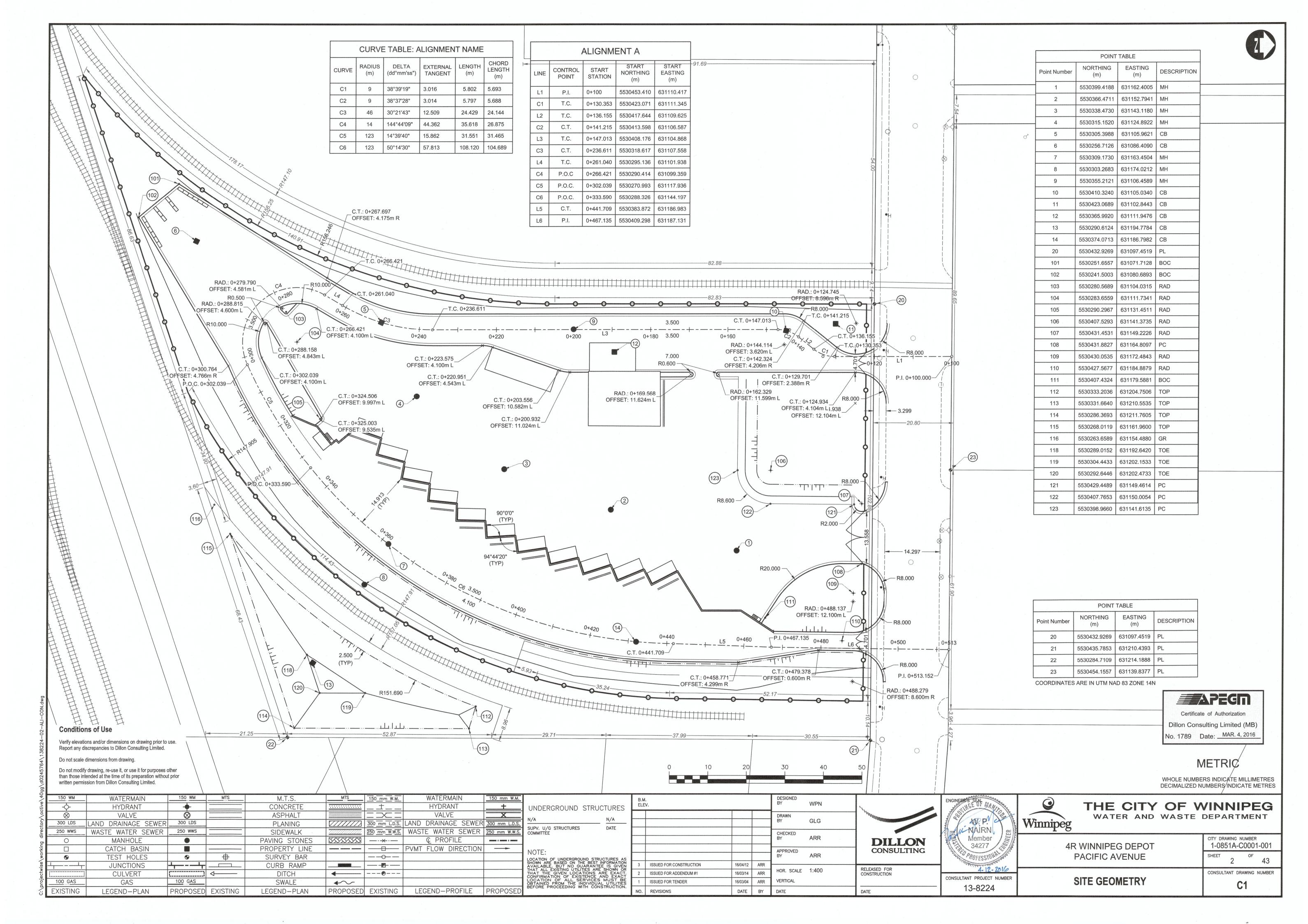
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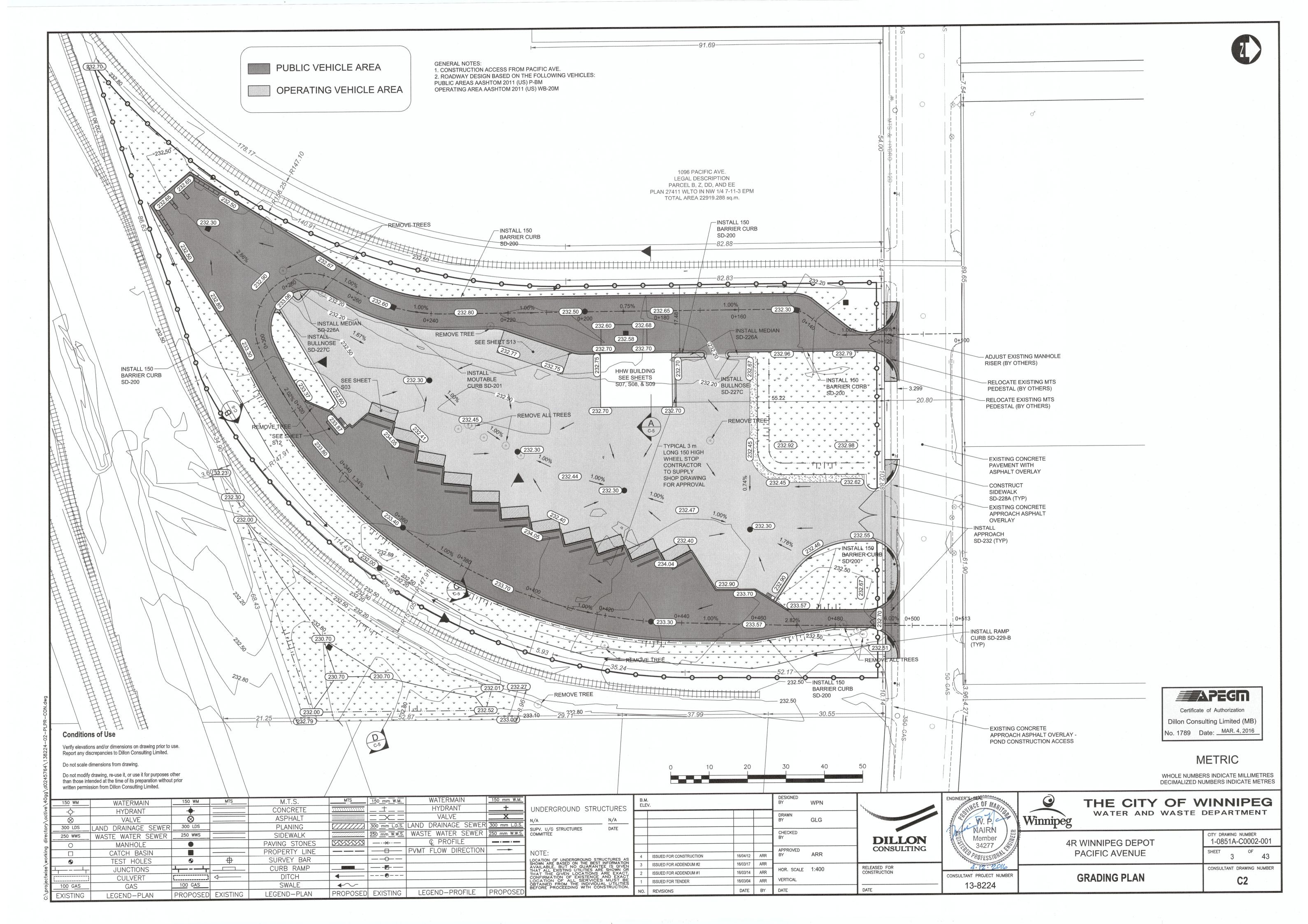
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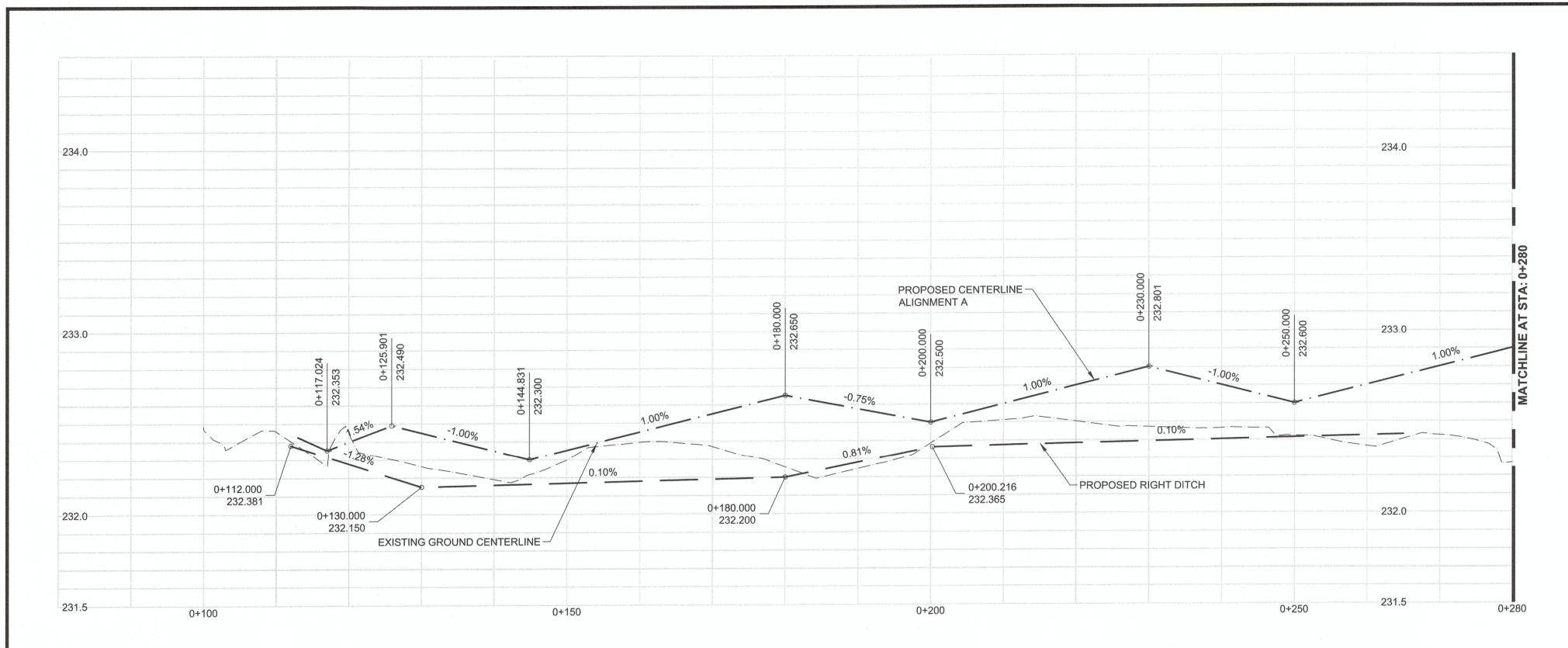
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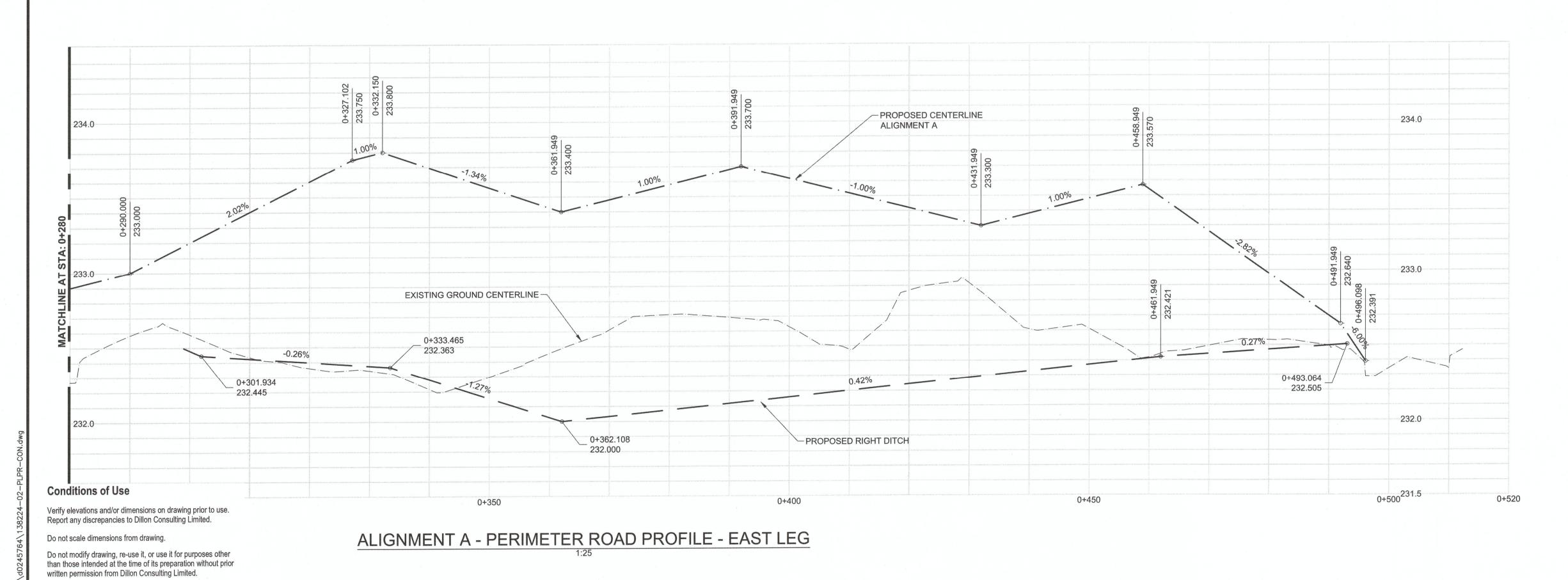
43







ALIGNMENT A - PERIMETER ROAD PROFILE - WEST LEG



Certificate of Authorization

Dillon Consulting Limited (MB)

No. 1789 Date: MAR. 4, 2016

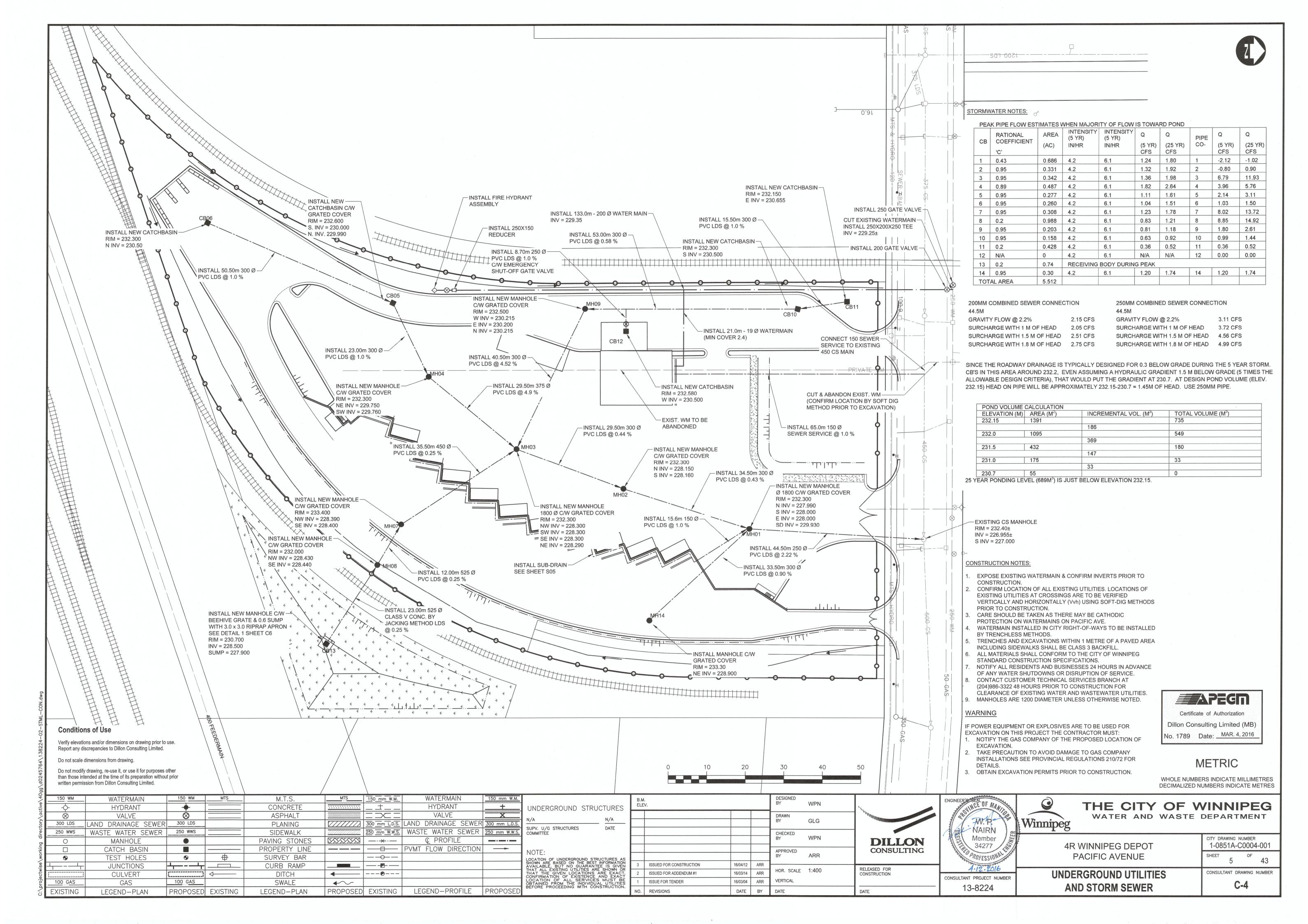
METRIC

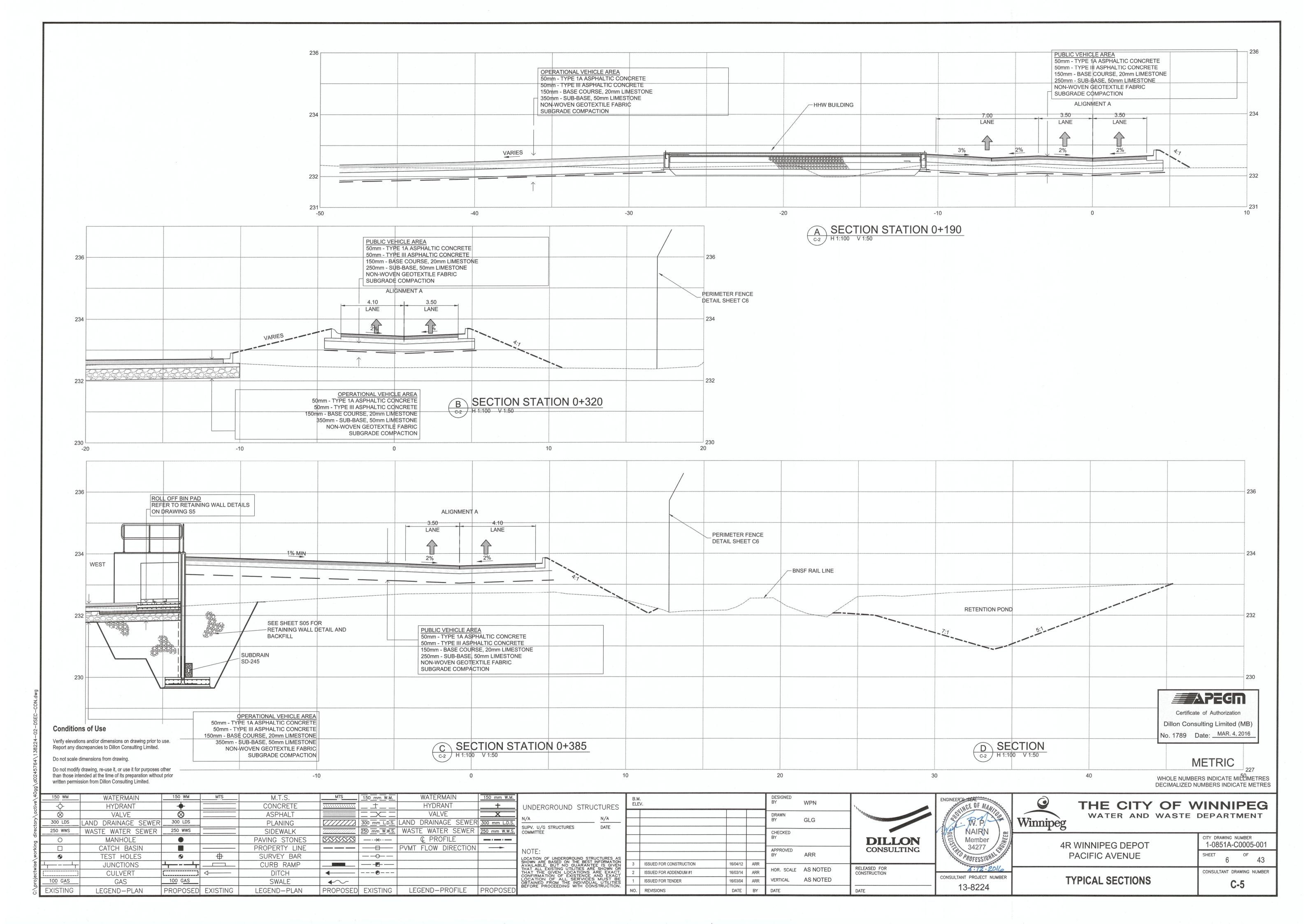
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

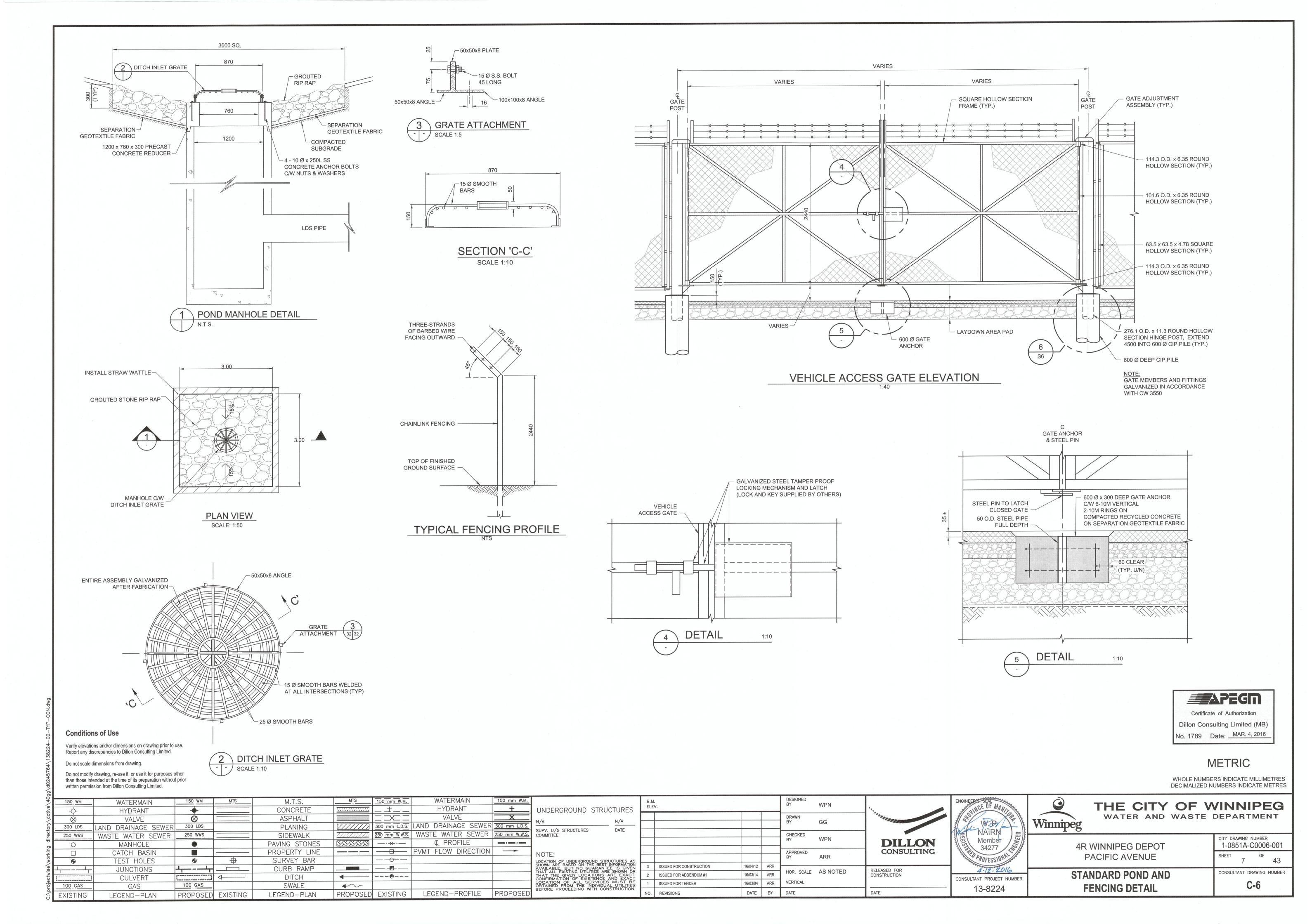
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ac	\otimes	VALVE	\otimes		ASPHALT			VALVE	X	N/A
tory	300 LDS	LAND DRAINAGE SEWER	300 LDS		PLANING		300 mm L.D.S.	LAND DRAINAGE SEWER	300 mm L.D.S.	SUPV
rec	250 WWS	WASTE WATER SEWER	250 WWS		SIDEWALK		250 mm W.W.S.	WASTE WATER SEWER	250 mm W.W.S.	COMM
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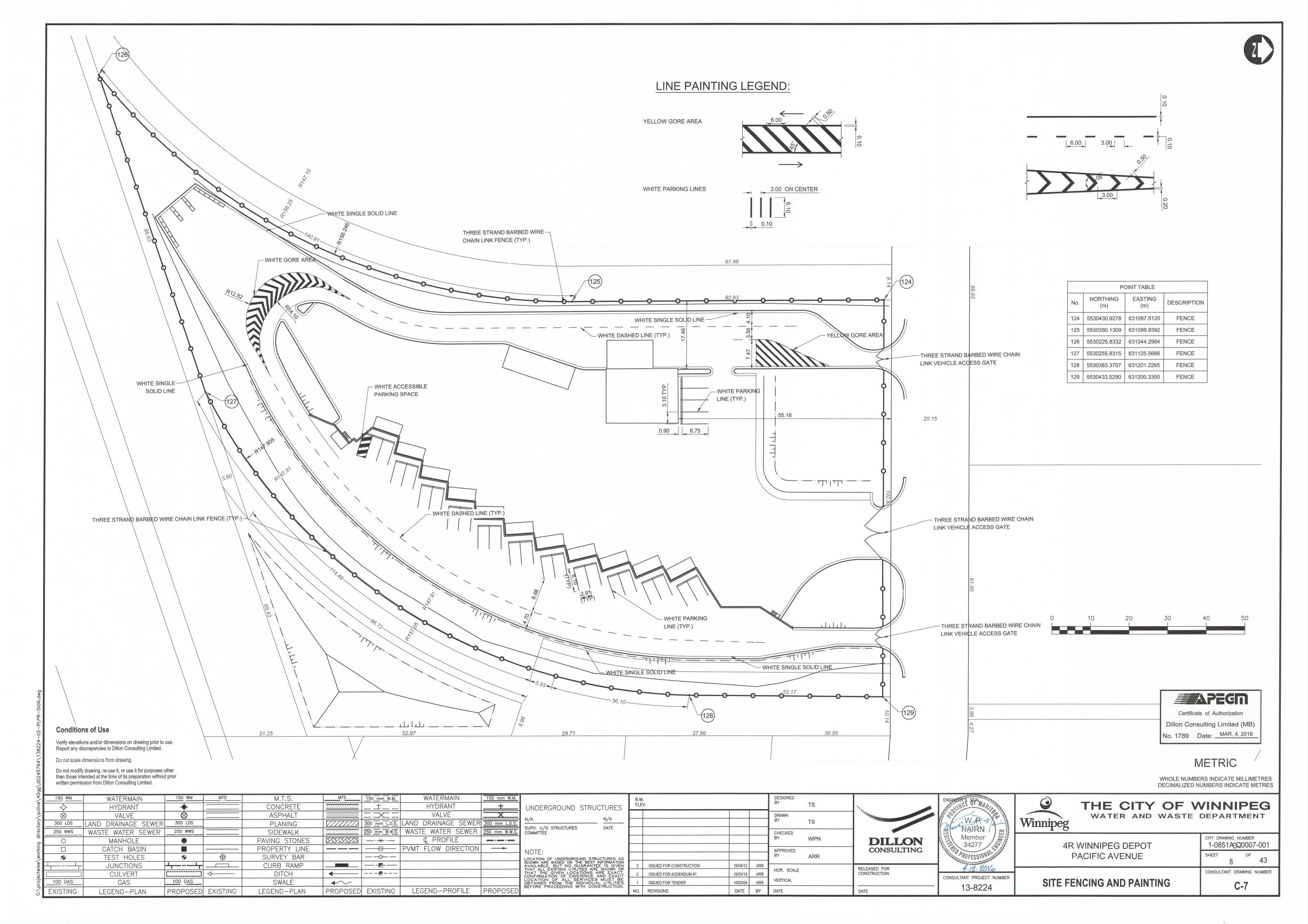
INDERGROUND STRUCTURES	B.M. ELE				DESIGNED BY	WPN	116	ENG
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CATION OF UNDERGROUND STRUCTURES AS HOWN ARE BASED ON THE BEST INFORMATION VAILABLE. BUT NO GUARANTEE IS GIVEN HAT ALL EXISTING UTILITIES ARE SHOWN OR HAT THE GIVEN LOCATIONS ARE EXACT. DORFIRMATION OF EXISTENCE AND EXACT DOCATION OF ALL SERVICES MUST BE BEADED PROMETRING WITH CONSTRUCTION OF THE INDIVIDUAL UTILITIES BEADE PROCEEDING WITH CONSTRUCTION	3	ISSUED FOR CONSTRUCTION	16/04/12	ARR			DELEACED FOR	
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OCATION OF ALL SERVICES MUST BE BTAINED FROM THE INDIVIDUAL UTILITIES	1	ISSUED FOR TENDER	16/03/04	ARR	VERTICAL			COL
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ENGINEER'S SEAL W.P. WAIRN	Winnipeg THE CITY OF WATER AND WASTE	
Member 34277	4R WINNIPEG DEPOT	city drawing number 1-0851A-C0003-001
PROFESSIONAL TOP	PACIFIC AVENUE	SHEET 4 OF 43
4.12.2016		CONSULTANT DRAWING NUMBER
consultant project number 13-8224	PROFILES	C3









- 1. THE METRIC SYSTEM OF MEASUREMENT IS USED ON ALL DRAWINGS, ELEVATIONS AND STATIONS ARE SHOWN IN METRES AND ALL OTHER DIMENSIONS ARE SHOWN IN MILLIMETRES.
- 2. CONTRACTOR MUST VERIFY ALL EXISTING AND PROPOSED GEOMETRY, DIMENSIONS, ELEVATIONS AND LAYOUT IN THE FIELD PRIOR TO FABRICATION AND CONSTRUCTION AND NOTIFY THE CONTRACT ADMINISTRATOR OF ANY CHANGES. EXISTING DIMENSIONS ARE APPROXIMATE ONLY.
- 3. CONTRACTOR MUST VERIFY, SAFEGUARD AND PROTECT ALL EXISTING UTILITIES PRIOR TO EXCAVATION OR CONSTRUCTION. ANY DAMAGE TO EXISTING STRUCTURES AND UTILITIES BY THE CONTRACTORS OPERATIONS MUST BE REPAIRED BY THE CONTRACTOR AT HIS OWN COST.
- 4. ALL REFERENCES TO CODES, STANDARDS, SPECIFICATIONS, GUIDELINES, ETC, SHALL MEAN THE LATEST EDITION.
- 5. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS.
- 6. ALL WORK SHALL CONFORM TO THE 2010 MANITOBA BUILDING CODE.
- 7. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE LEGISLATION AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS.
- 8. DO NOT SCALE FROM THE DRAWINGS.

EXCAVATION AND BACKFILI

- 1. ALL EXCAVATIONS SHALL BE COMPLETELY DEWATERED DURING CONSTRUCTION TO PREVENT UPLIFT OF THE STRUCTURE. KEEP EXCAVATION DEWATERED TO, AT LEAST, 300 mm BELOW LOWEST ELEVATION OF EXCAVATION.
- PLACE ALL CONCRETE IN THE DRY.
- 3. THE FOUNDATION SLABS SHALL BEAR ON LAYER OF WELL GRADED GRANULAR/CRUSHED ROCK COMPACTED TO 100% STANDARD PROCTOR DRY DENSITY (SPDD) UNLESS OTHERWISE INDICATED.

CAST IN PLACE CONCRETE

- 1. CONCRETE MATERIAL, QUALITY, MIXING, PLACING, FORM WORK AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA A23.1 / A23.2 - 2014
- 2. ALL EXPOSED CORNERS SHALL HAVE A 20 mm CHAMFER OR FILLET UNLESS OTHERWISE NOTED.

TYPE	SUPPLY AND PLACE STRUCTURAL CONCRETE	STRENGTH (MPa)	EXP. CLASS
1	PILES, GRADE BEAMS, SUSPENDED SLABS	35 @ 56 DAYS	S-2
2	RETAINING WALLS, STRUCTURAL SLABS	35 @ 28 DAYS	S-2

ANCHOR BOLTS FOR LIGHT STANDARDS

- 1. ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH ASTM F1554 GRADE 105, HOT DIPPED GALVANIZED.
- 2. ANCHOR BOLTS SHALL BE 25Ø x 915 LONG C/W 150 HOOK, UNLESS SHOWN
- 3. CONFIRM ANCHOR BOLT SIZE, B.C.D. AND PROJECTION WITH LIGHT STANDARD SUPPLIER PRIOR TO INSTALLATION.
- 4. PROTECT THREADS FROM FOULING DURING CONCRETE POUR.
- 5. ANCHOR BOLTS TO BE SET USING STEEL SETTING TEMPLATE (MIN. 10 THICK) TO BE REMOVED AFTER MIN. 24hr CURING PERIOD.
- 6. REFER TO SHEET S6 FOR ALIGNMENT OF ANCHOR BOLTS.
- 7. B.C.D. = BOLT CIRCLE DIAMETER.

POST-INSTALLED ANCHOR BOLTS

- 1. UNLESS OTHERWISE NOTED. POST-INSTALLED ANCHOR BOLTS SHALL BE HILTI KWIK BOLT TZ - SS TO THE DIAMETER AND LENGTH AS INDICATED ON THE DRAWINGS OR EQUAL AS APPROVED BY THE CONTRACT ADMINISTRATOR.
- 2. CONTRACTOR SHALL FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

HANDRAILS AND GUARDRAILS

- 1. STEEL PIPE SHALL BE IN ACCORDANCE WITH ASTM A53 TYPE S GRADE A OR B.
- 2. GALVANIZE IN ACCORDANCE WITH ASTM A123-09 TO A NET RETENTION OF 610 g/m2
- 3. GALVANIZING HANDRAIL AND GUARDRAILS SHALL RESULT IN A SMOOTH SURFACE FREE OF SHARP EDGES AND PROJECTIONS.
- 4. VENT HOLE SIZE AND LOCATIONS AS PER GALVANIZING PROCESS REQUIREMENTS.
- 5. EXPANSION JOINTS SHALL BE LOCATED TO ACCOMMODATE GALVANIZING PROCESS.

MISCELLANEOUS METAL FABRICATIONS

- 1. STEEL SHALL BE IN ACCORDANCE WITH CSA G40.21 GRADE 300W UNLESS OTHERWISE NOTED.
- 2. ALL FABRICATIONS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123-09 TO A NET RETENTION OF 610 g/m2
- 3. CONTRACTOR SHALL PREPARE AND SUBMIT DETAILED SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION.

REINFORCING STEEL FOR CAST-IN-PLACE CONCRETE

- 1. ALL REINFORCING SHALL BE BLACK STEEL CONFORMING TO CSA G30.18-09, GRADE 400W.
- 2. ALL REBAR SHALL BE STORED ON WOOD BLOCKING AT THE SITE.
- 3. CONCRETE CLEAR COVER TO REINFORCEMENT UNLESS NOTED OTHERWISE:

75 mm

PILES, FOUNDATIONS CAST AGAINST GRADE:

RETAINING WALLS, GRADE BEAMS

FOUNDATIONS NOT CAST AGAINST

AGAINST GROUND: 60 mm

STRUCTURAL SLABS: TOP LAYER 60 mm **BOTTOM LAYER** 50 mm

- 4. SEE TABLE BELOW FOR REINFORCING LAP SPLICES/PROJECTION LENGTH TYPICAL UNLESS NOTED OTHERWISE.
- 5. NORMAL WEIGHT CONCRETE.
- 6. CLEAR COVER GREATER THAN 1.5 x BAR DIAMETER.
- 7. CLEAR SPACING NOT LESS THAN 2 x BAR DIAMETER.
- 8. Fy=400 MPa.
- 9. MULTIPLY ABOVE BY 1.3 FOR HORIZONTAL REBAR SO PLACED THAT MORE THAN 300 mm OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT LENGTH OR SPLICE.
- 10. INCREASE ABOVE BY 1.5 FOR EPOXY COATED REBAR.
- 11. COMBINATION OF ABOVE TWO FACTORS NEED NOT EXCEED 1.7
- 12. CONTRACTOR SHALL PREPARE AND SUBMIT DETAILED REINFORCING STEEL SHOP DRAWINGS AND BAR LISTS PRIOR TO COMMENCING FABRICATION.
- 13. WELDED STEEL WIRE FABRIC SHALL CONFORM TO ASTM A1064/A1064M-13. PROVIDE IN FLAT SHEETS ONLY.

MINIMUM LAP LENGTHS								
BAR SIZE	30 MPa CONCRETE	35 MPa CONCRETE						
10M	550	500						
15M	750	700						
20M	900	850						
25M	1450	1350						
30M	1700	1550						
35M	2000	1850						
	1							

CAST-IN-PLACE PILES

1. CAST-IN-PLACE PILES ARE FRICTION PILES WITH THE FOLLOWING PROPERTIES:

2011	DEPT	H (m)	ULS RESISTANCE SL				SLS SKIN	LATERAL SUBGRADE
SOIL	FROM	то	END BEARING	SKIN FRICTION	FRICTION	REACTION MODULUS		
CLAY FILL / FROST ZONE	0.0	2.4	0	0	0	0		
SILTY CLAY	2.4	11	60 KPa	14 KPa	12 KPa	2400/d KN/m ³		

ULS RESISTANCE = A RESISTANCE FACTOR OF 0.4 IS APPLIED d = DIAMETER OF PILE.

EPOXY ADHESIVE ANCHORAGE FOR REINFORCING

- 1. EPOXY ADHESIVE ANCHORAGE SYSTEM FOR POST INSTALLED REINFORCING BARS SHALL BE HILTI HIT-HY 200 OR EQUAL APPROVED BY THE CONTRACT ADMINISTRATOR.
- 2. CONTRACTOR SHALL FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

METRIC

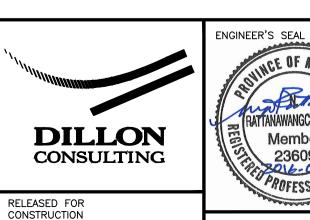
WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

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NO. REVISIONS

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CONSULTANT PROJECT NUMBER

13-8224



THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

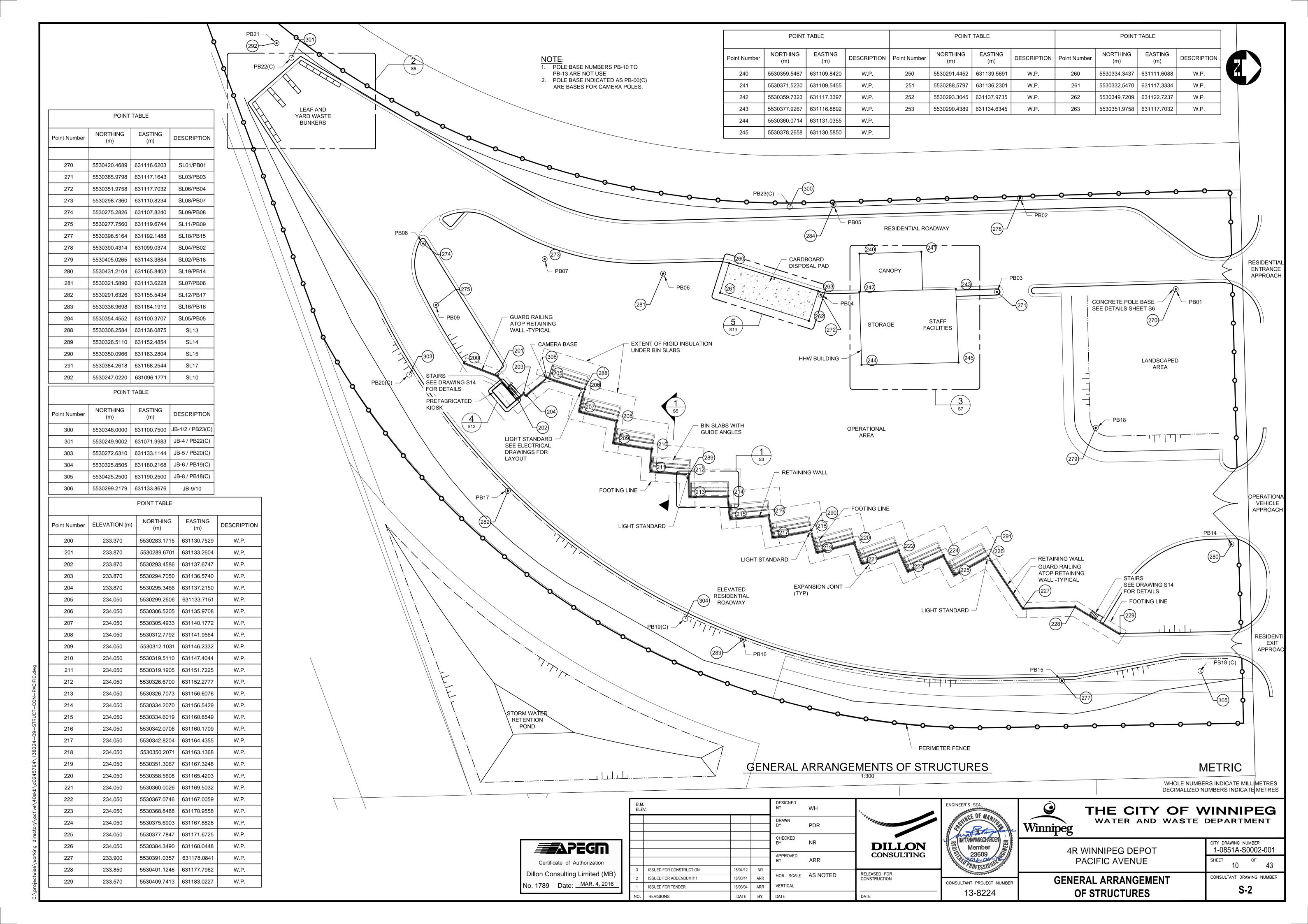
4R WINNIPEG DEPOT PACIFIC AVENUE

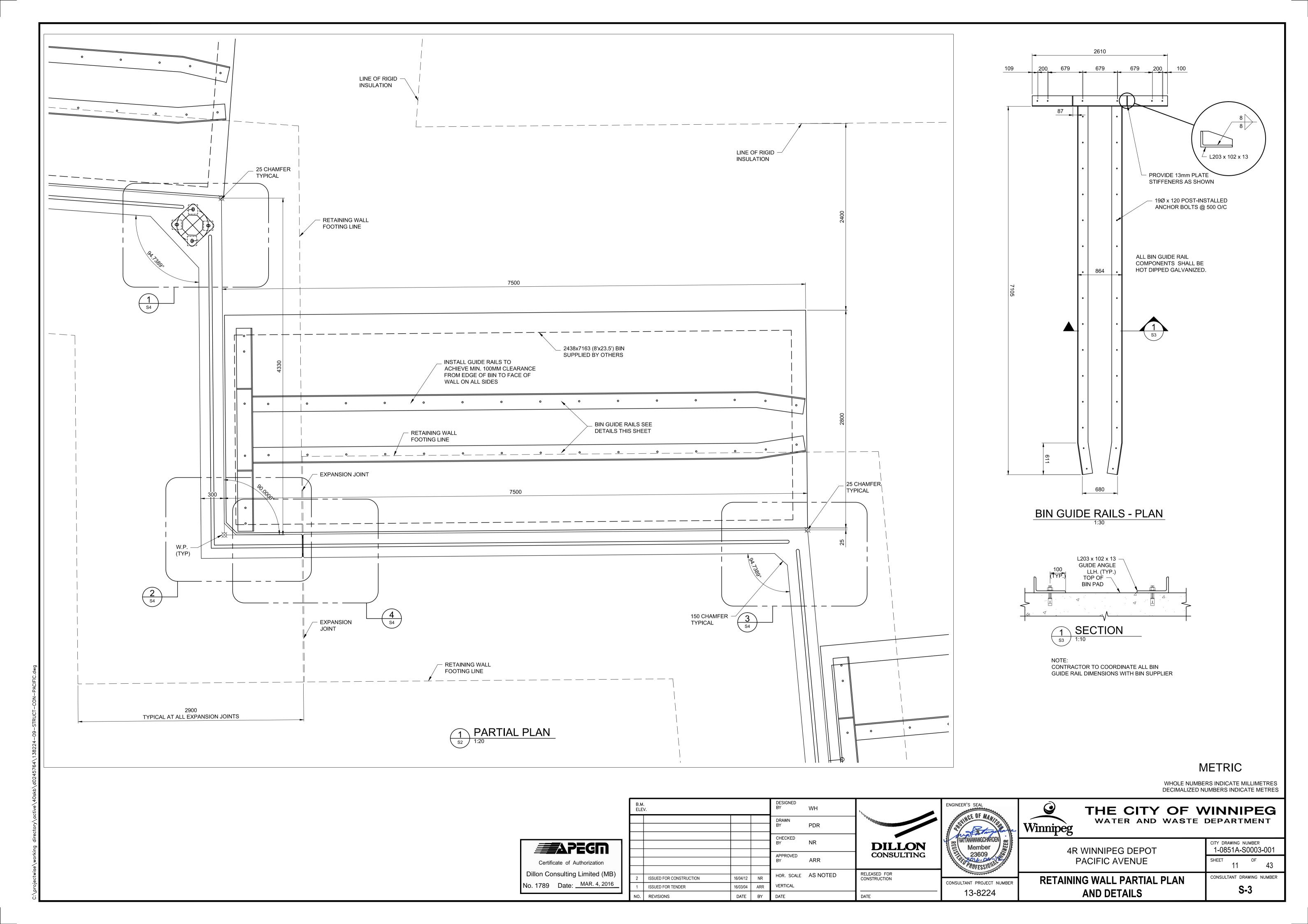
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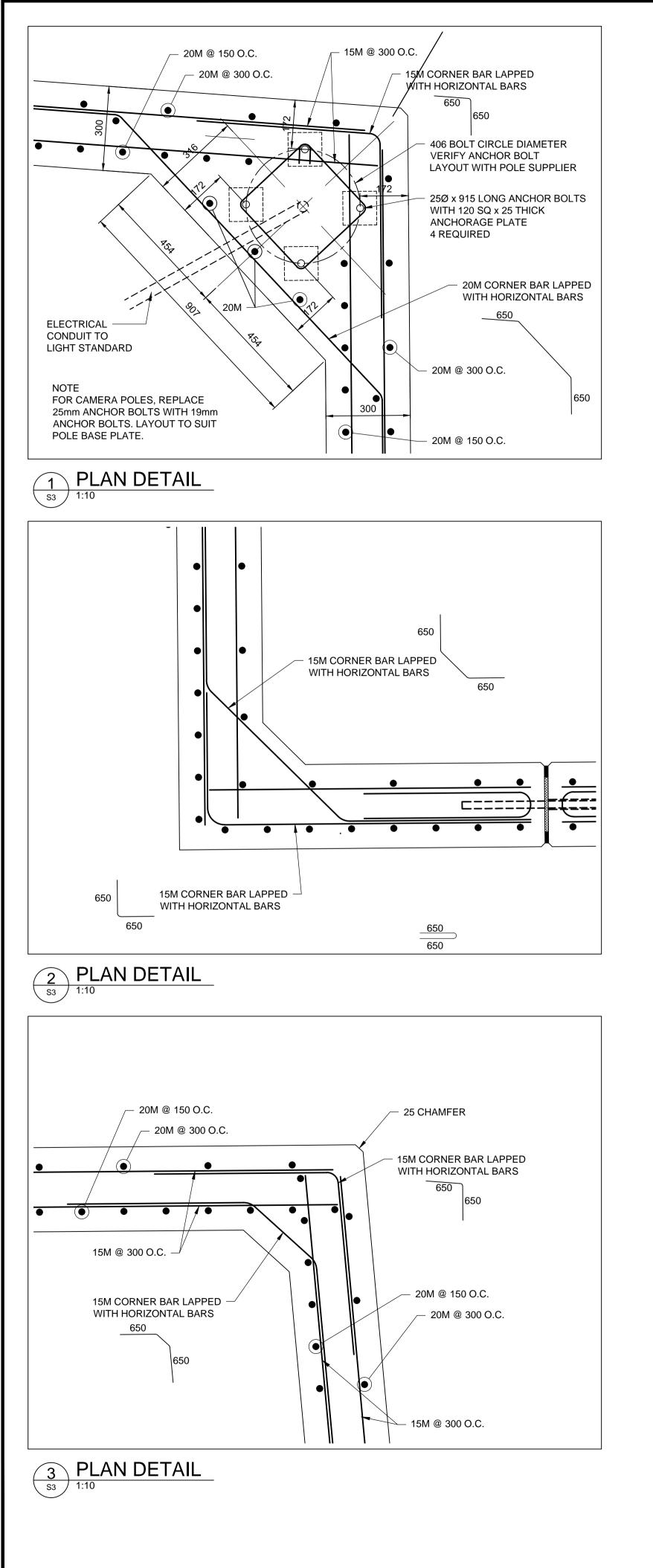
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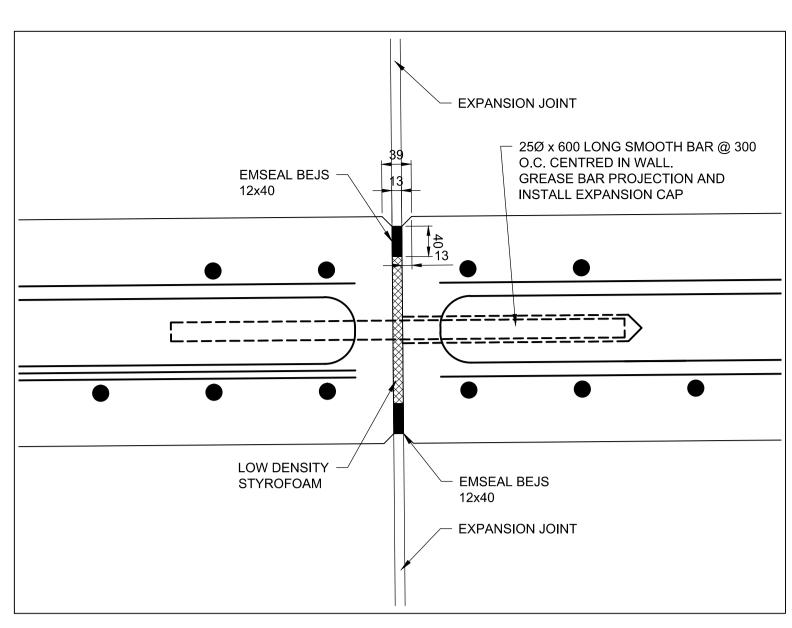
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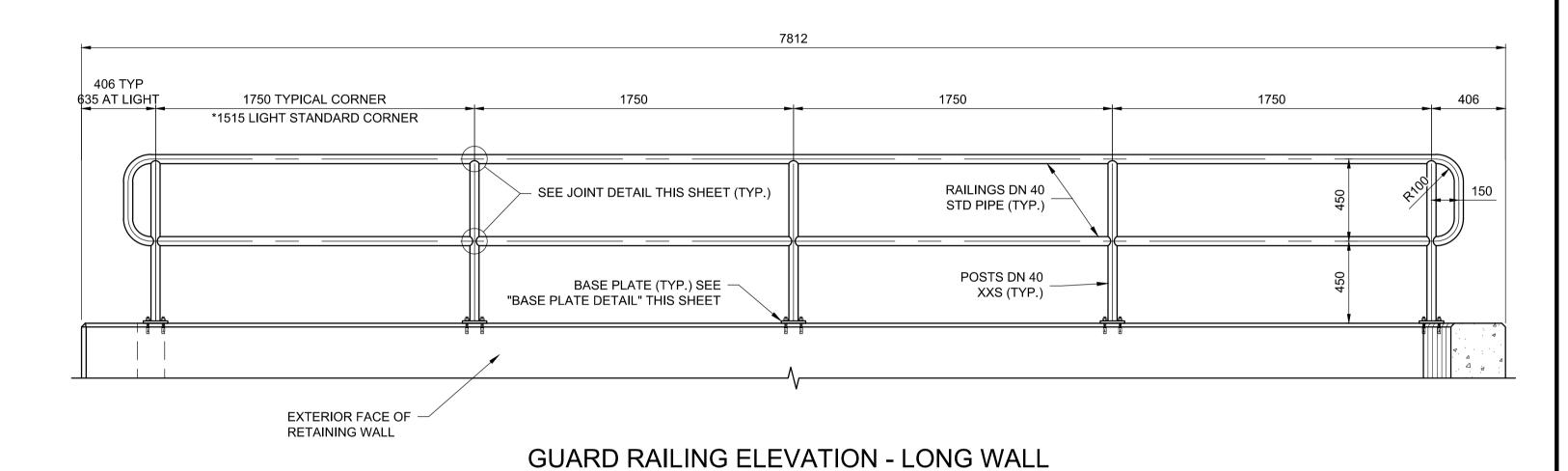


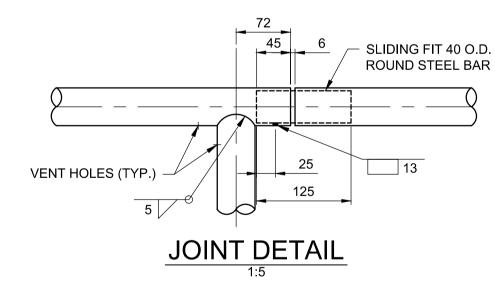


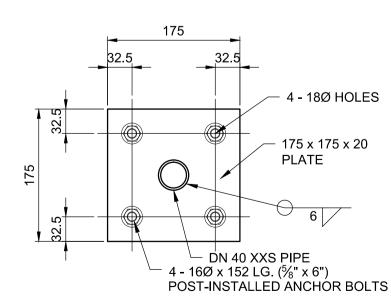


EXPANSION JOINT DETAIL

1:5







16/03/04 ARR

DATE BY

VERTICAL

ISSUED FOR ADDENDUM # 1

ISSUED FOR TENDER

NO. REVISIONS

GUARD RAILING ELEVATION - SHORT WALL POST-INSTALLED ANCHOR BOLTS BASE PLATE DETAIL

DATE

-		4630		400 TYP
400		1915	1915 TYPICAL CORNER *1680 LIGHT STANDARD CORNER	635 AT LIGH
0014				
150	450	RAILINGS DN 40 STD PIPE (TYP.)		150
	450	POSTS DN 40 XXS (TYP.)		
	,			
	EXTERIOR FA			

		DESIGNED BY	WH	',,	ENGINEER'S SEAL	
			DRAWN			WINCE OF MANIT
			BY	PDR		A BRANCH
			CHECKED			PATTANAWANGCHAROF
			BY	NR	DILLON CONSULTING	Member
			APPROVED			23609
			BY	ARR		Proposition of the second of t
ISSUED FOR CONSTRUCTION	16/04/12	NR		ACNOTED	RELEASED FOR	MOFESSION
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THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

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CITY DRAWING NUMBER

1-0851A-S0004-001

*NOTE: FOR DIMENSIONS INDICATED, VERIFY GAP BETWEEN

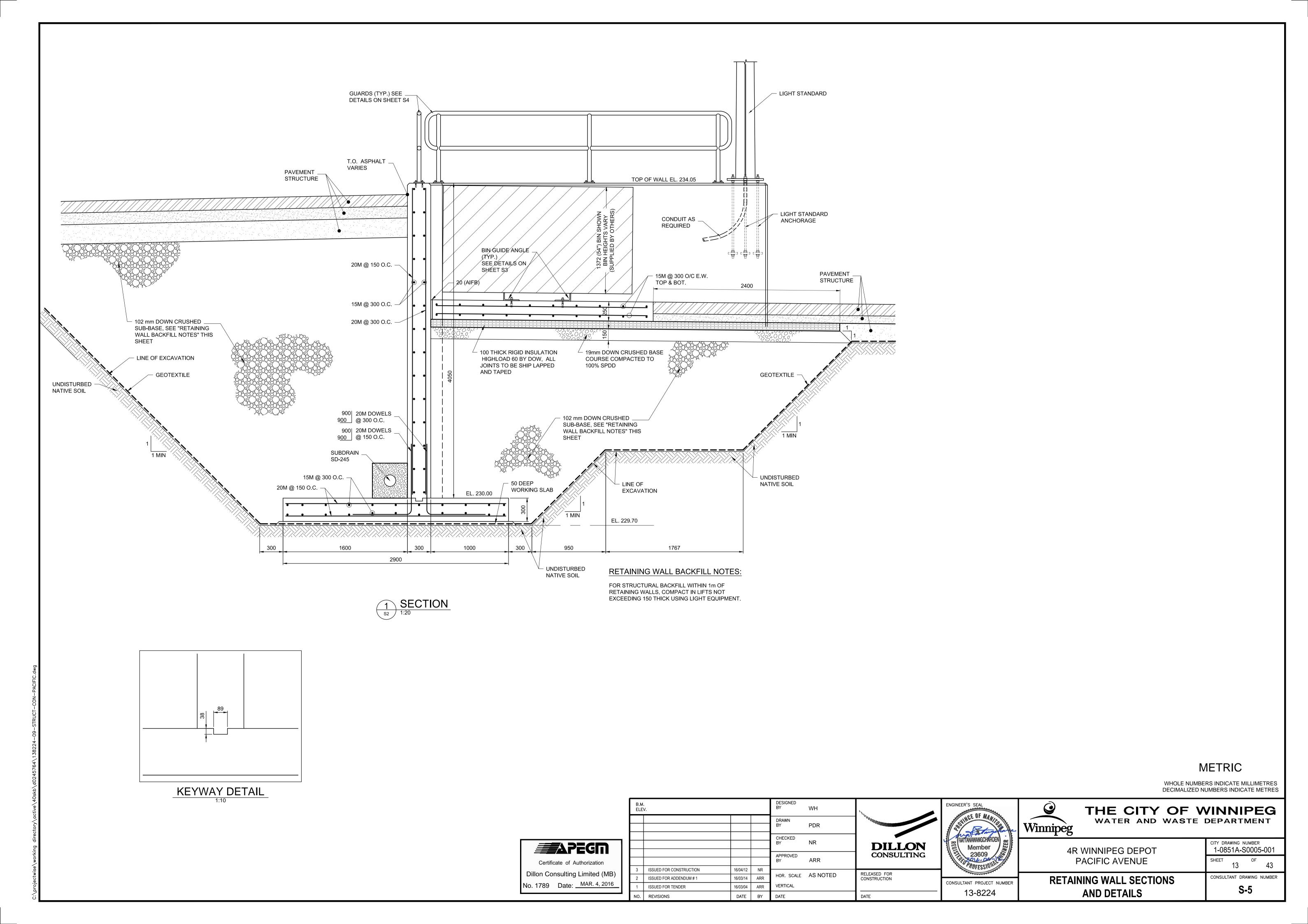
LIGHT STANDARDS AND RAILING MAX 100mm.

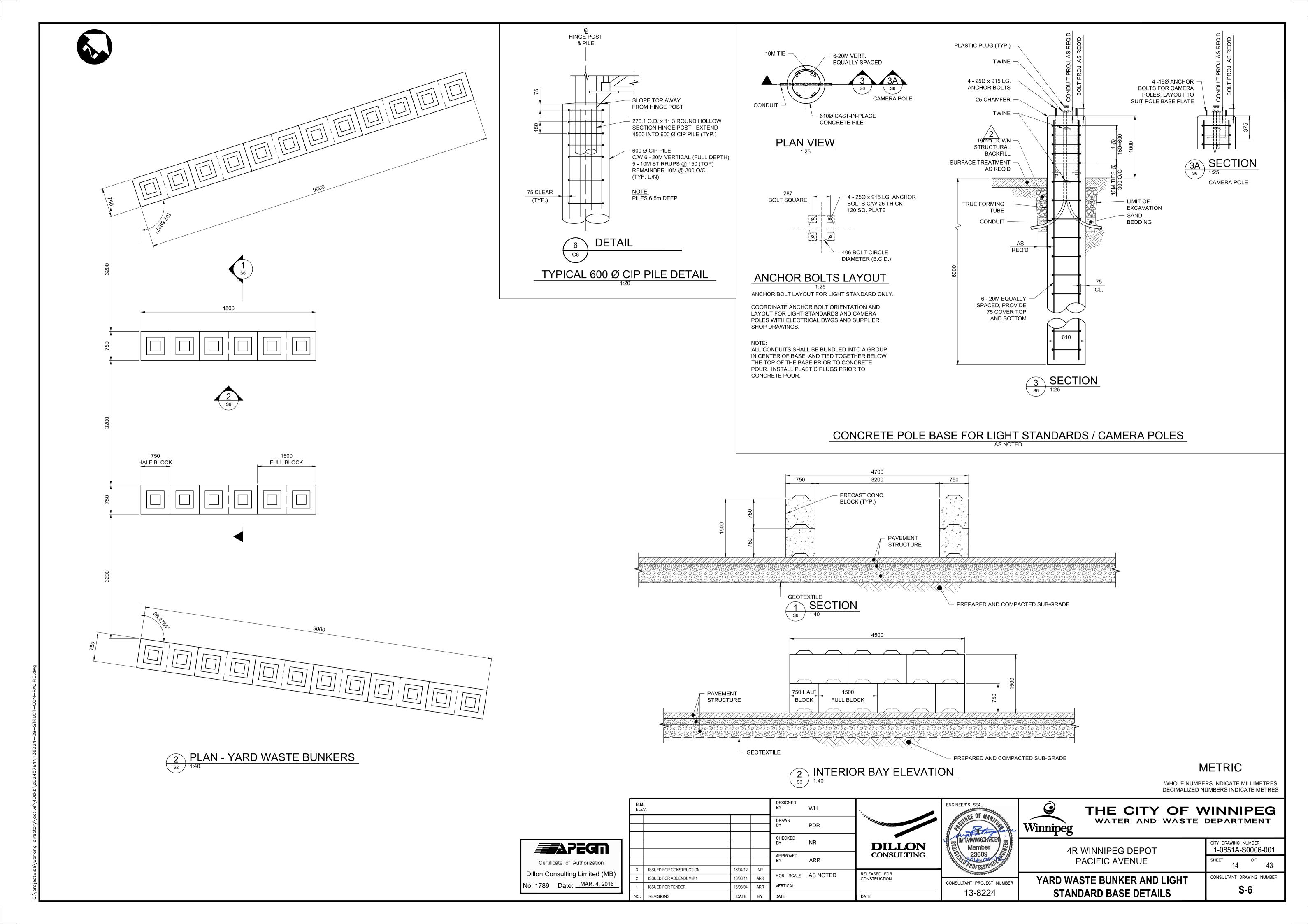
4R WINNIPEG DEPOT PACIFIC AVENUE

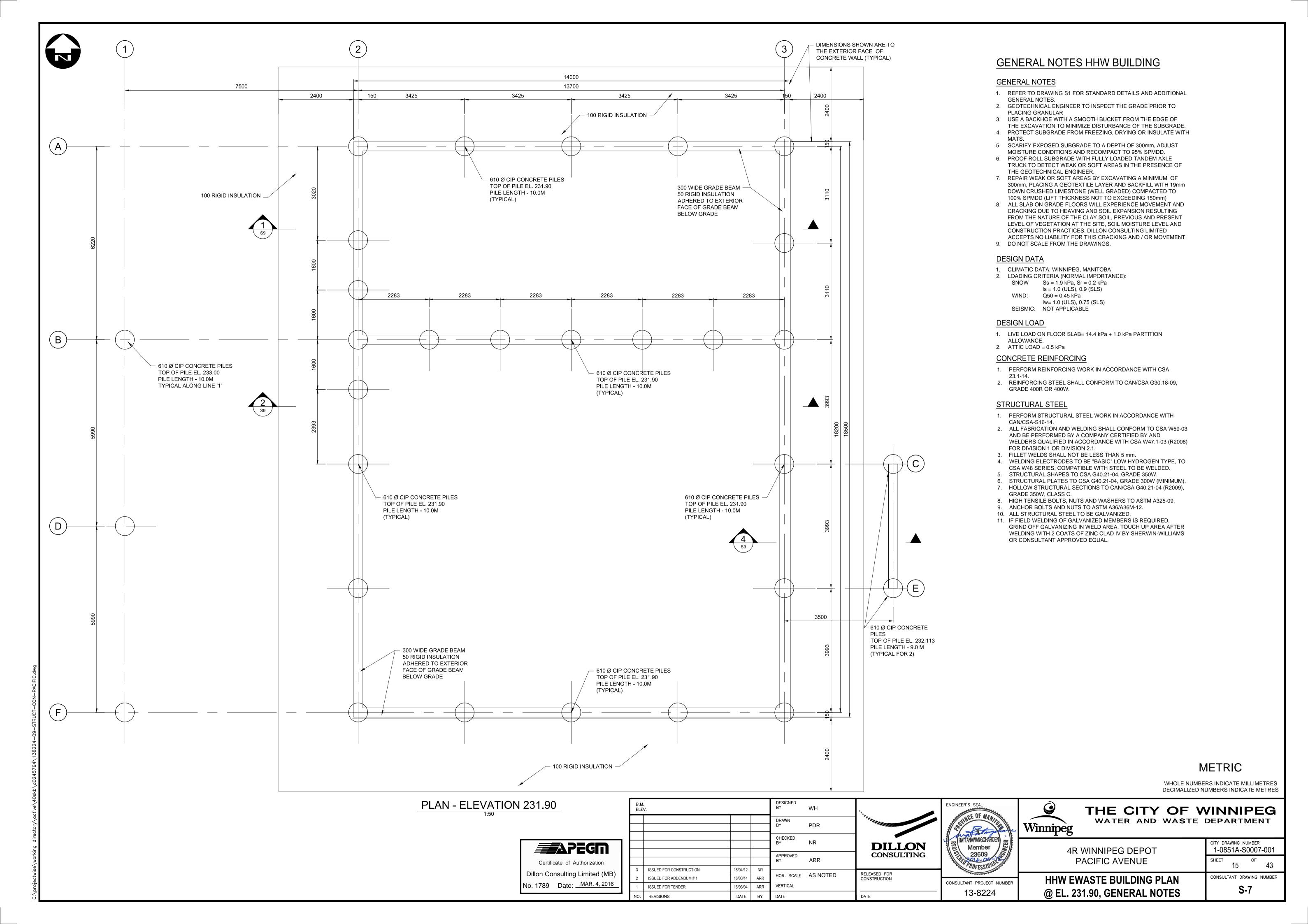
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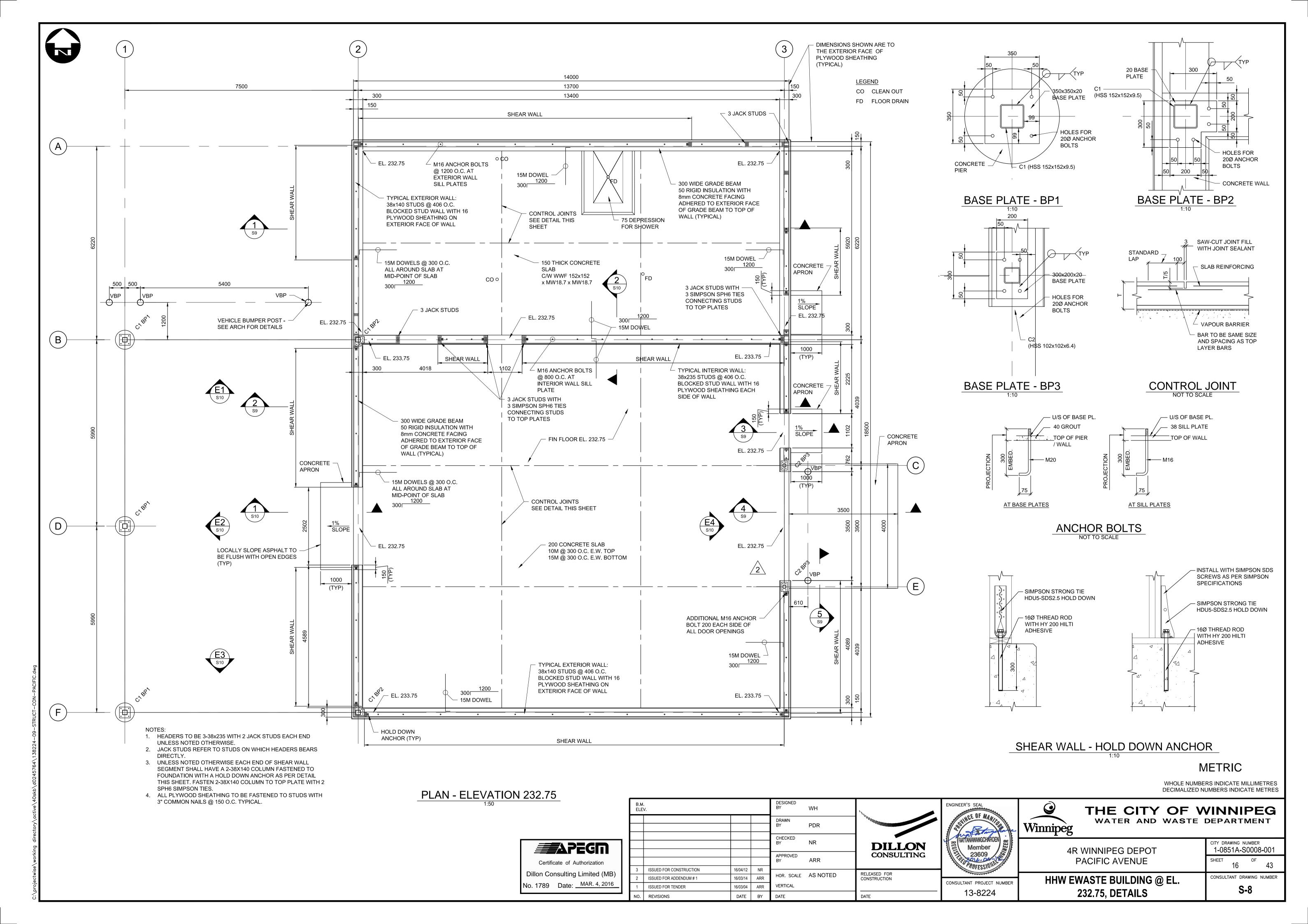
CONSULTANT DRAWING NUMBER **S-4** RAILING ELEVATIONS AND DETAILS

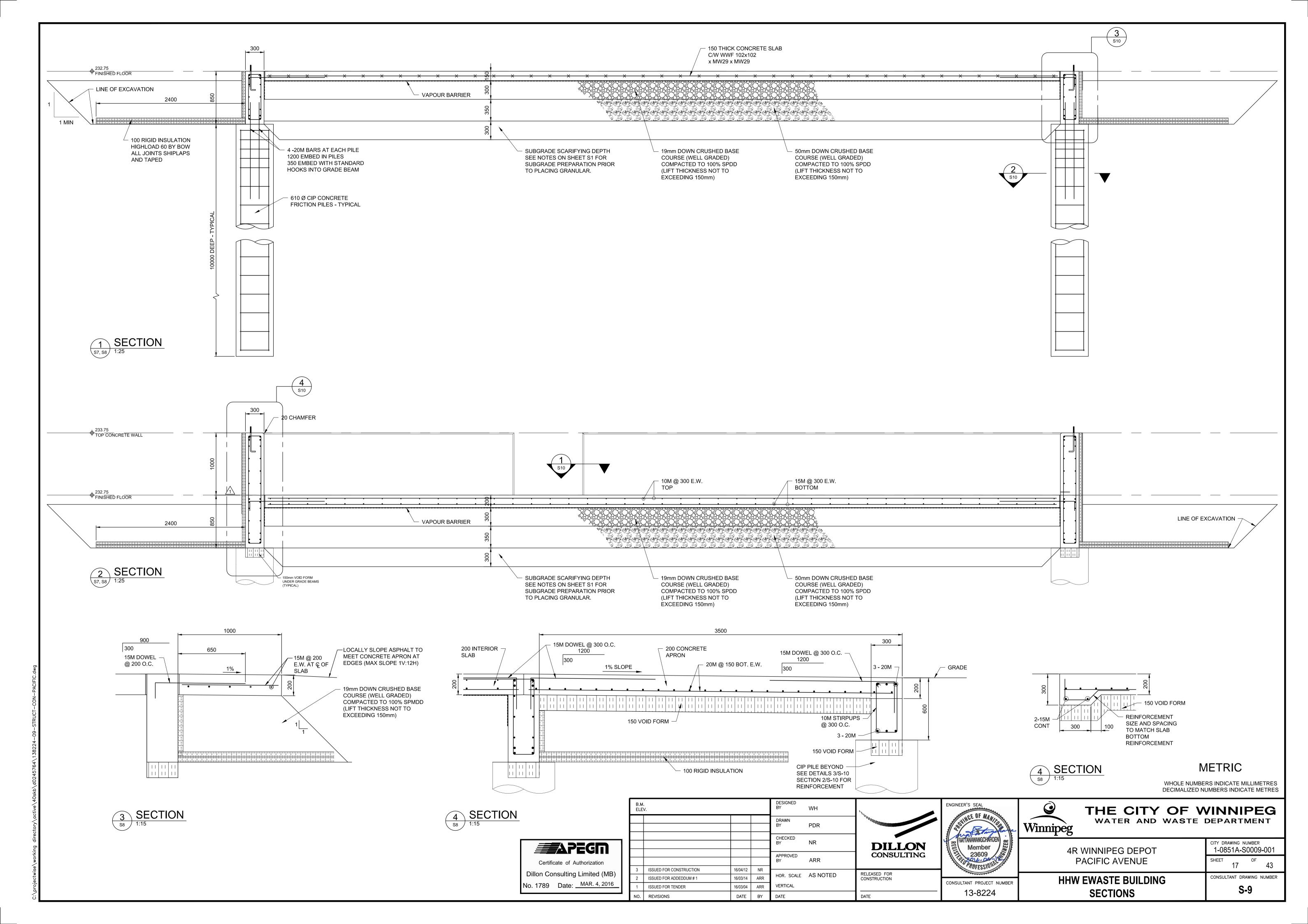
APEGIN Certificate of Authorization Dillon Consulting Limited (MB) No. 1789 Date: MAR. 4, 2016

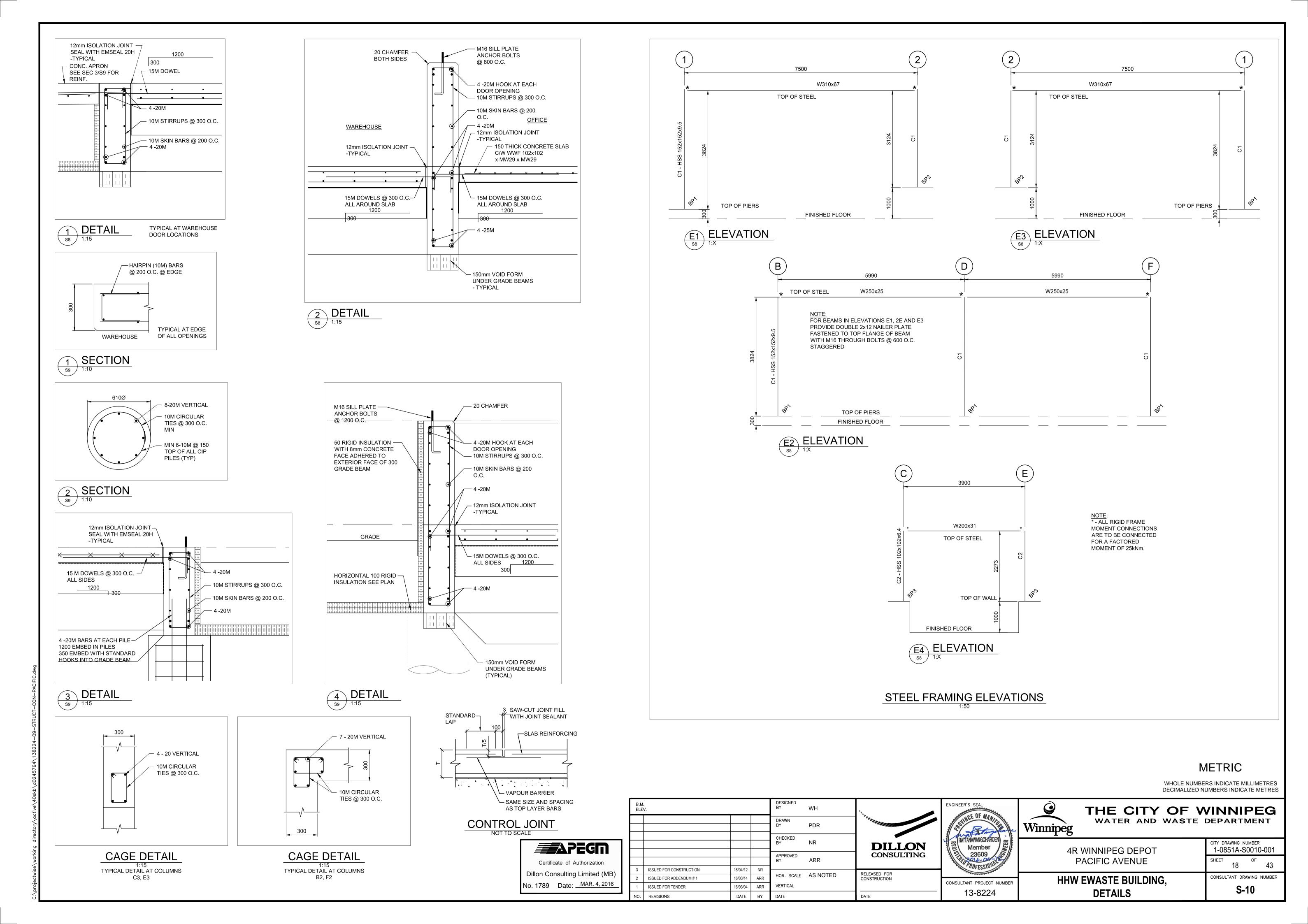




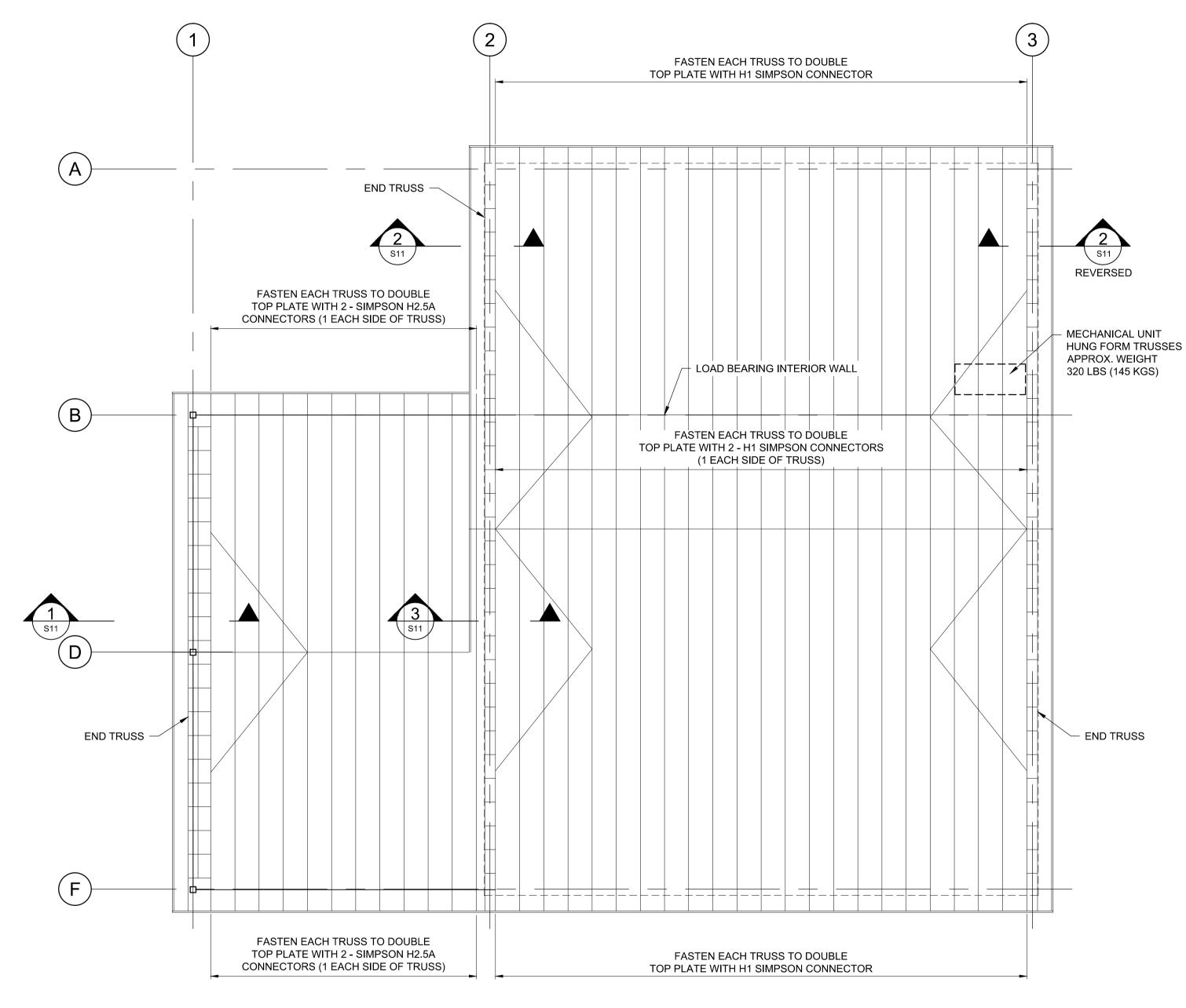












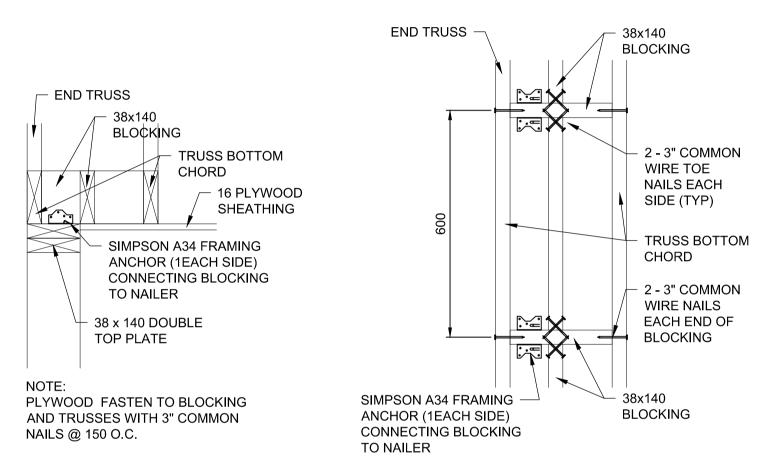
NOTE: PROVIDE 16 PLYWOOD ROOF DIAPHRAGM FASTENED TO UNDERSIDE OF TRUSSES WITH 3" COMMON NAILS @ 150 O.C. TYP.

ROOF FRAMING PLAN
1:75

NOTE:
ALL SIMPSON STRONG TIE CONNECTORS
SHALL USE SIMPSON STRONG TIE
STRONG-DRIVE SD CONNECTOR SCREWS.

- END TRUSS BLOCKING - END TRUSS TRUSS BOTTOM CHORD 38x140 — - 2 - 3" COMMON BLOCKING WIRE NAILS EACH END OF 2 - 3" COMMON 16 PLYWOOD BLOCKING WIRE TOE SHEATHING NAILS EACH SIDE (TYP) SIMPSON A34 FRAMING TRUSS BOTTOM ANCHOR (1EACH SIDE) CHORD 38x140 — CONNECTING BLOCKING BLOCKING TO NAILER — 2 - 38 x 286 CONT. WOOD PLATES C/W 16mm DIA _ THRU-BOLTS STAGGERED @ 400 O.C. (TYP) SIMPSON A34 FRAMING PLYWOOD FASTEN TO BLOCKING ANCHOR (1EACH SIDE) AND TRUSSES WITH 3" COMMON CONNECTING BLOCKING NAILS @ 150 O.C. TO NAILER SECTION **PLAN**

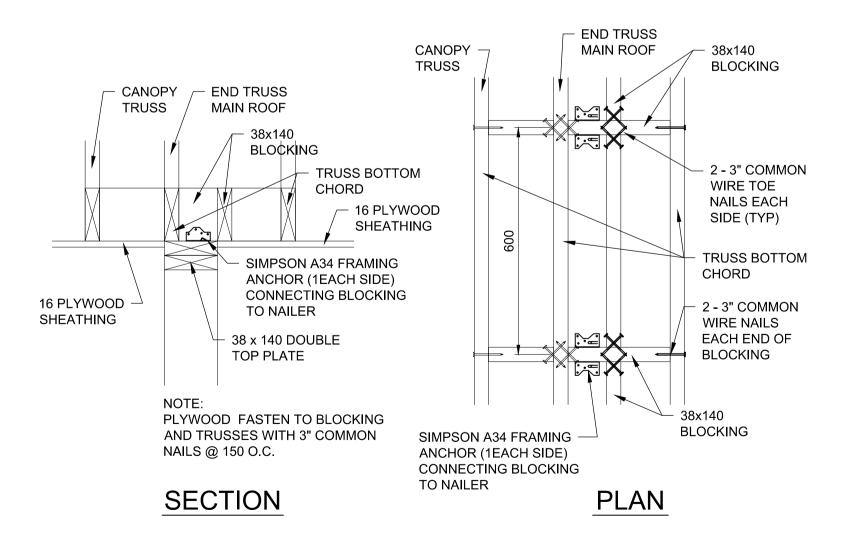
1 SECTION 1:10



SECTION

PLAN

2 SECTION 1:10



3 SECTION s11 1:10

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

Certificate of Authorization
Dillon Consulting Limited (MB)
No. 1789 Date: MAR. 4, 2016

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1	ISSUED FOR TENDER	16/03/04	ARR	VERTICAL				
NO.	REVISIONS	DATE	BY	DATE		DATE		

RATTANAWANGCHAROEN
Member
23609
CONSULTANT PROJECT NUMBER

13-8224

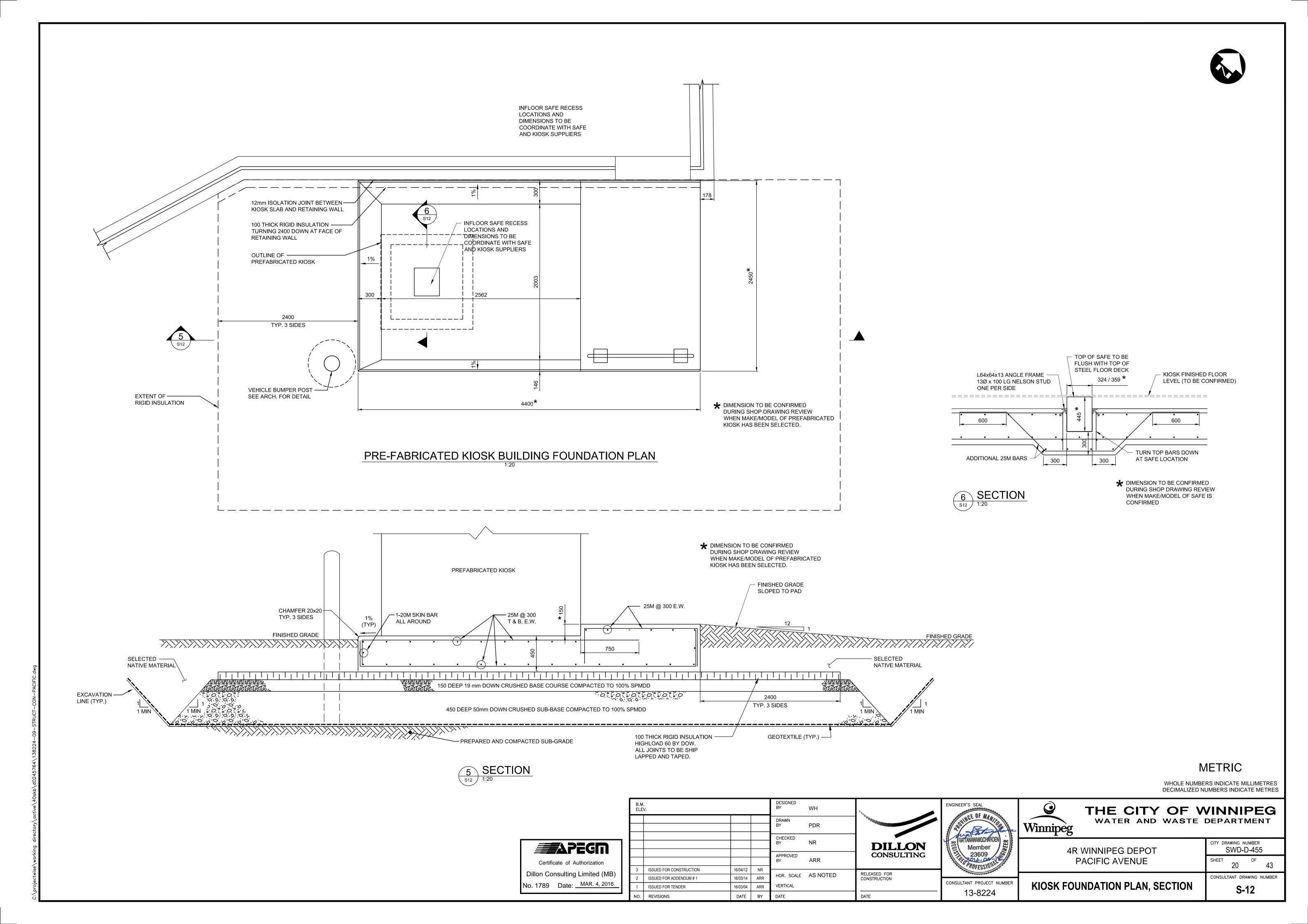
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THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

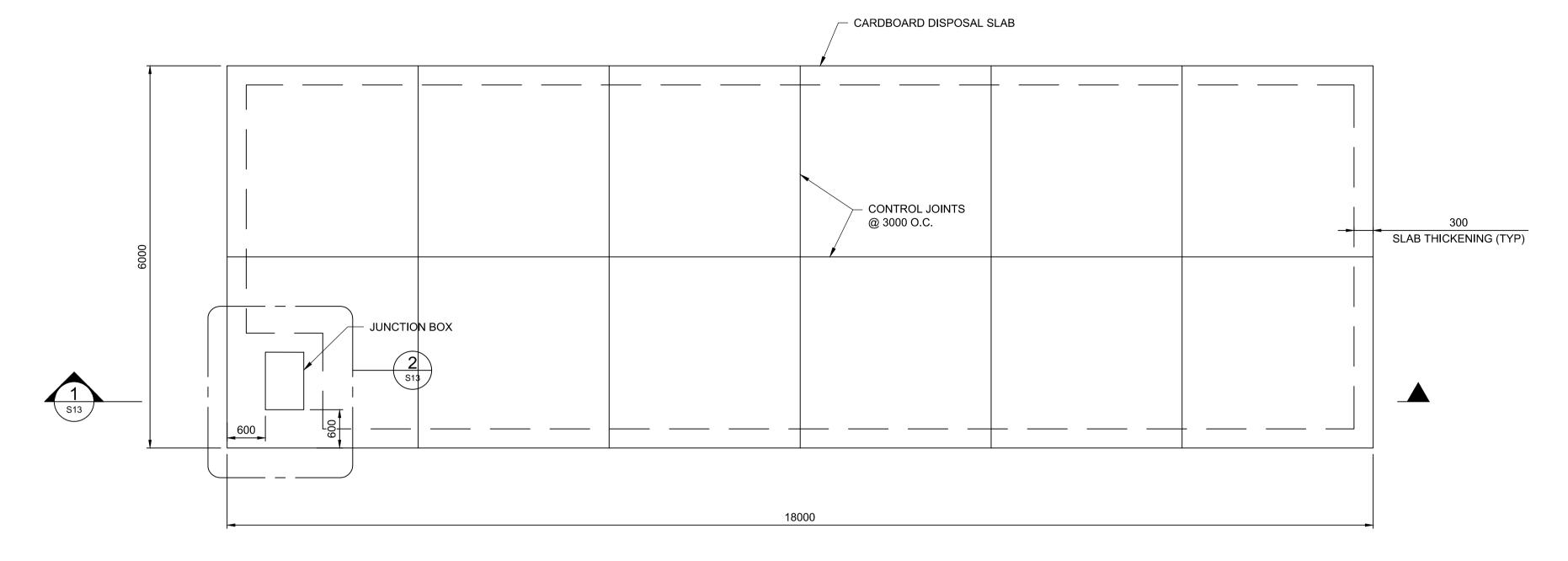
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PACIFIC AVENUE	SHEET OF 43				
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HHW EWASTE BUILDING ROOF FRAMING PLAN SECTIONS AND DETAILS

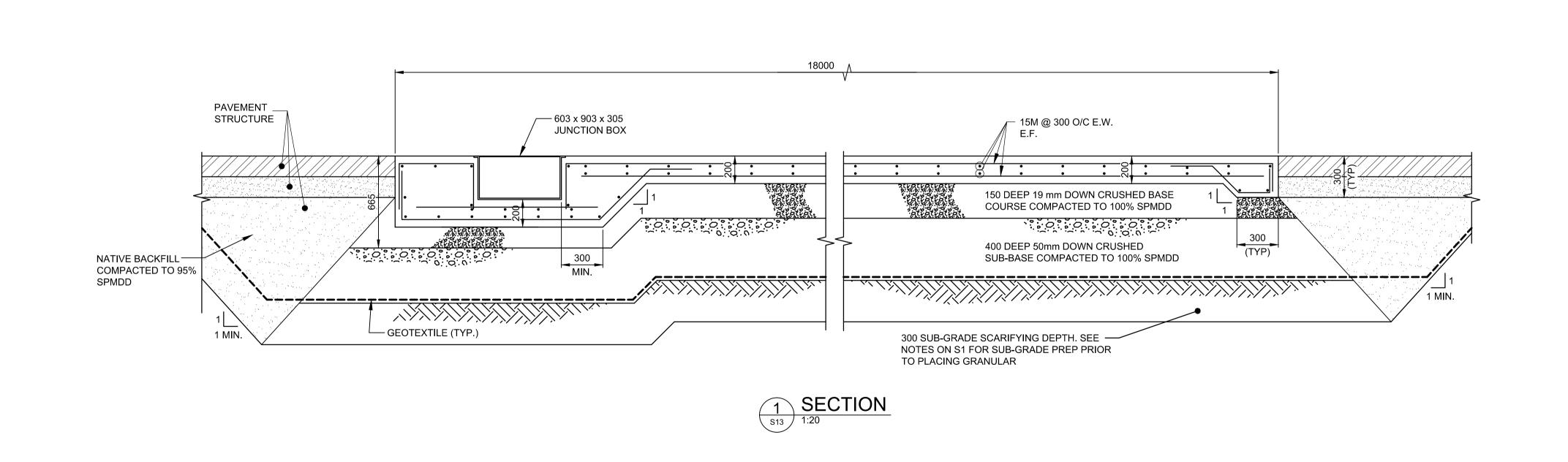
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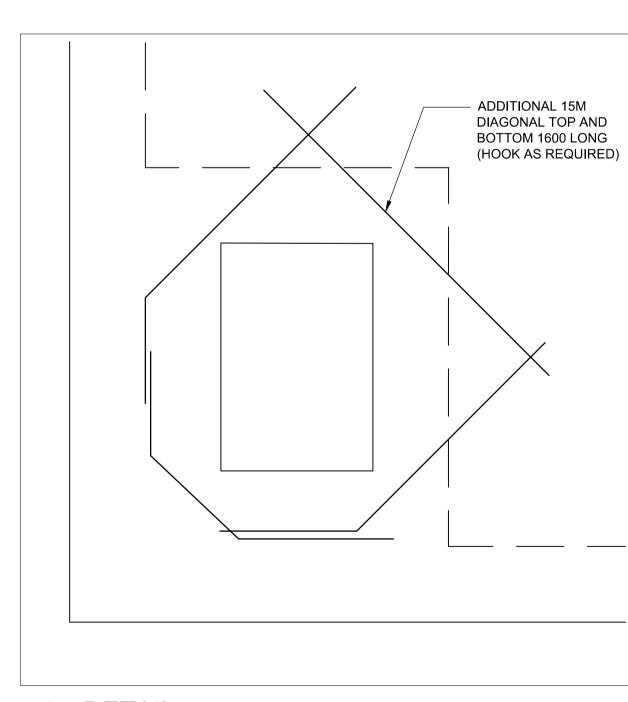






PLAN 1:50





2 DETAIL s13 1:15

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

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Certificate of Authorization							
Dillon Consulting Limited (MB)							
No. 1789 Date: MAR. 4, 2016							

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NO.	REVISIONS	DATE	BY	DATE		DATE

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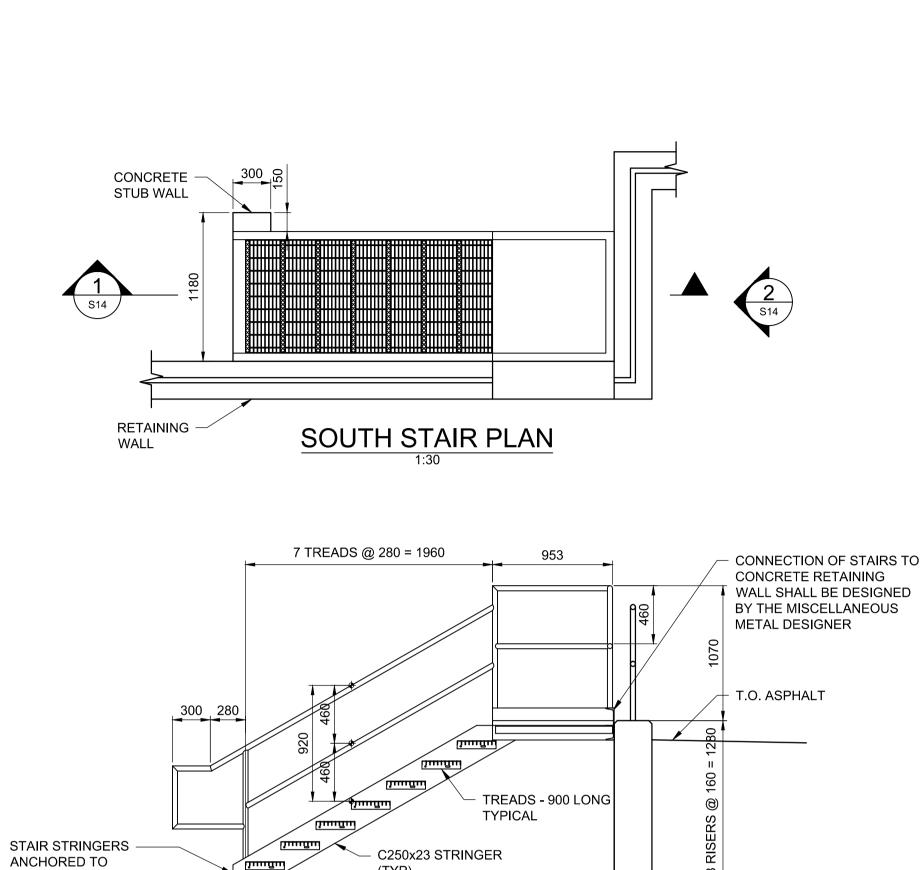
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©	THE CITY
Winnipeg	WATER AND

PLAN AND DETAILS

	THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT	
y		
	CITY DRAWING NUMBER	

4R WINNIPEG DEPOT	1-0851A-S0013-001					
PACIFIC AVENUE	SHEET OF 43					
ARDBOARD DISPOSAL SLAB	CONSULTANT DRAWING NUMBER					



(TYP)

CONCRETE STUB WALL

15M VERT @ 300 O.C.

15M HORZ. @ 300 O.C. EACH FACE

EACH FACE





15M @ 300 O.C. EACH FACE

CONCRETE

STUB WALL

15M x 1000 @ 300 O.C. EACH FACE

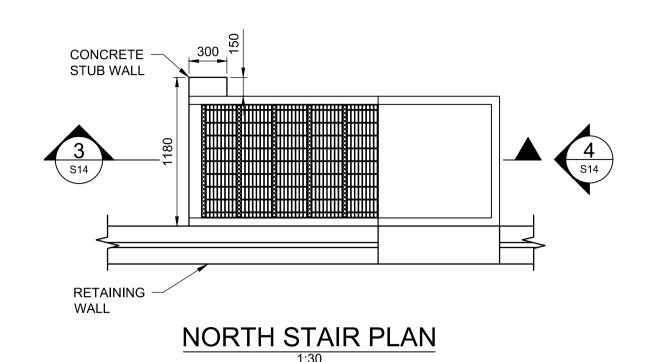
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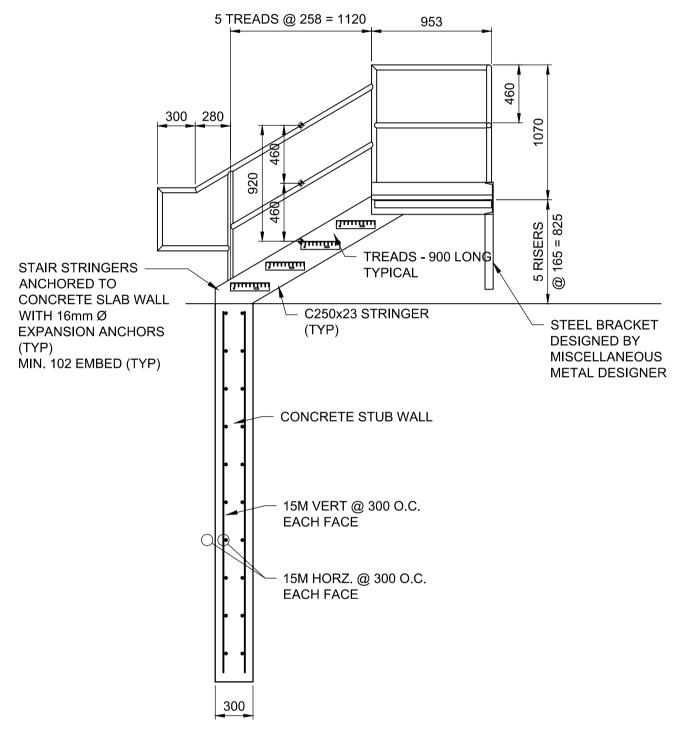
RETAINING WALL

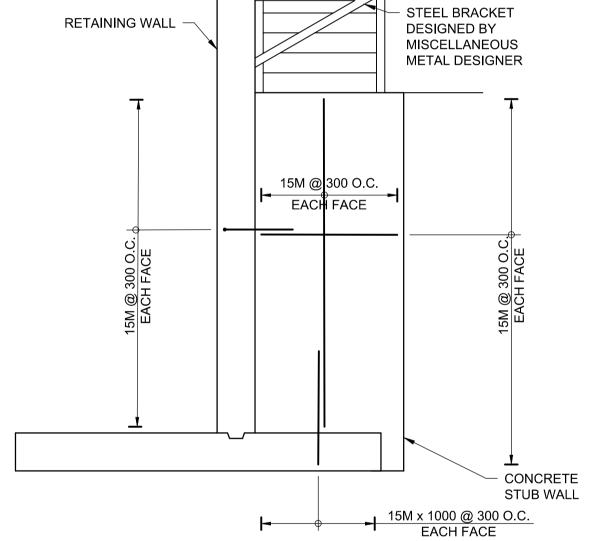
FOUNDATION SLAB

RETAINING WALL —

5M @ 300 O EACH FACE



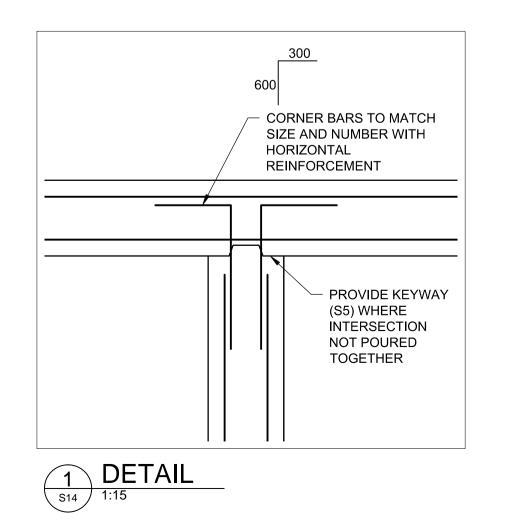




T.O. ASPHALT

NORTH STAIR SECTION
1:30

4 NORTH STAIR SECTION
1:30



CONCRETE SLAB WALL

EXPANSION ANCHORS

MIN. 102 EMBED. (TYP)

WITH 16mm Ø

APEGIN Certificate of Authorization Dillon Consulting Limited (MB) No. 1789 Date: MAR. 4, 2016

	B.M ELE				DESIGNED BY	WH	'I _I ,
					DRAWN BY	PDR	
					CHECKED BY	NR	DILLON
					APPROVED BY	ARR	CONSULTING
5)	2	ISSUED FOR CONSTRUCTION	16/04/12	NR	HOR. SCALE	AS NOTED	RELEASED FOR CONSTRUCTION
_	1	ISSUED FOR TENDER	16/03/04	ARR	VERTICAL		
	NO.	REVISIONS	DATE	BY	DATE		DATE

ENGINEER'S SEAL (RATTANAWANGCHAROEN CONSULTANT PROJECT NUMBER

13-8224

WATER AND WASTE DEPARTMENT Winnipeg

WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES THE CITY OF WINNIPEG

ANCHORAGE OF STEEL BRACKET TO CONCRETE RETAINING WALL SHALL BE

MISCELLANEOUS METAL

DESIGNED BY THE

DESIGNER

CITY DRAWING NUMBER 1-0851A-S0014-001 **4R WINNIPEG DEPOT** PACIFIC AVENUE 22 OF 43

MISCELLANEOUS METALS DETAILS

CONSULTANT DRAWING NUMBER S-14

METRIC

				DOOR						FRAME			REM	MARKS	
NO.	TYPE	THICK	WIDTH	HEIGHT	MAT	FIN	GRILLE	GLASS	DEPTH	MAT	FIN	RATING			HD\
101.1	Α	45	1000	2134	НМ	PNT	-	SU	172	НМ	PNT	-	INSULATED FRAME, INSU	JLATED DOOR	1
101.2	А	45	1000	2134	НМ	PNT	-	TEMP	172	НМ	PNT	-			2
102	Α	45	1000	2134	НМ	PNT	-	TEMP	146	НМ	PNT	-	UNDERCUT DOOR - 25mr	n	9
103	В	45	PR 914	2134	НМ	PNT	-	-	146	НМ	PNT	-			8
104	В	45	762	2134	НМ	PNT	-	-	146	НМ	PNT	-			3
105	В	45	1000	2134	НМ	PNT	-	-	146	НМ	PNT	-	UNDERCUT DOOR - 19mr	m	4
106	В	45	1000	2134	НМ	PNT	-	-	146	НМ	PNT	-	UNDERCUT DOOR - 19mr	m	5
108	В	45	1000	2134	НМ	PNT	-	-	146	НМ	PNT	-	UNDERCUT DOOR - 19mr	m	3
109.1	А	45	PR 1200	2134	НМ	PNT	-	-	172	НМ	PNT	-	INSULATED FRAME, INSU	JLATED DOORS	6
109.2	Α	45	1000	2134	НМ	PNT	-	SU	172	НМ	PNT	-	INSULATED FRAME, INSU	JLATED DOOR	7
109.3	D	45	3050	3000									INSULATED SECTIONAL OF POWER OPERATOR, WEA		
													FOWER OF ERATOR, WEA	ATTIERSTRIFFING	
HARDWARE	CLO 150 ACT EXT INTE CEN AT 2 FINII GRA ELEE STR INTE WITT PLA PAN DEV LEV	DR OPER. SER DIA PUSH IIVATORS ERIOR AI ERIOR DA ITERED A IZE ABOV SHED FL INDE CTRIC DO IKE ERCONNE H OPERA TES AND IC BAR /	H PLATE S ON ND ALLS IT 920 AN E THE OOR OR ECTED ITOR, PUS KEY PAD EXIT H EXTERIO	SH	PROLUTE OF THE PROCESS OF THE PROCES	EATHERS DOR SWE IRESHOL ISSAGE S OSER CK PLATE CKPLATE UP 4 DOR OPE OSER RIVACY SI CK PLATE	EP D SET S S RATOR /	•	ACTIVE WEATH THRESH FULL HE ASTRAC ACTIVE EXIT DE EXTERIC HANDLE LOCKSE LEAF TOP / BE	DEVICE OF LEAF ERSTRIPHOLD EIGHT GAL ON LEAF EVICE WITH TO ACCORD TO ACCORD TO ACCORD TO ACCORD E TO A	N TH R TIVE BOLTS	GF	ROUP 7 OVERHEAD CLOSER WEATHERSTRIP THRESHOLD PANIC BAR / EXIT DEVICE WITH LEVER HANDLE AND LOCKSET ROUP 8 LOCKSET ON ACTIVE LEAF ASTRAGAL ON ACTIVE LEAF AT LOCKSET / STRIKE TOP / BOTTOM BOLTS ON INACTIVE LEAF	GROUP 9 DOOR OPERATOR / CLOSER LOCK SET KICKPLATES NOTE ALL DOORS TO HAVE 3 BUTT HINGES WITH NON-REMOVABLE PINS UNLESS NOTED OTHERWISE	•

	Name of Consultants: Dillon Consulting Limited Name of Project: Household Hazardous Waste Building, at Winnipeg CCCRC													
	Location: Pacific Avenue													
ltem	Manitoba /National Building Code (2010)										ing Code Refere			
	Data Matrix Part 9									References are to Division B unless noted As [A] or [C]				
1	□ A					New	□ Part 1	1	■ F	Part 9 Div	. В			
						ddition 11.1 to 11.4			9.10	0.2.1				
				Change o		Alteration	(T. 1		0.10					
2	-	occupancy(ardous waste sto					0.2.1(1)				
3		g Area (m²)			New New					1.2. [A]				
4	Gross A				New		-			1.2. [A]				
5		of Storeys			_1					1.2. [A] 0.20.3.				
6 7					1									
8				ium naza	rd industrial F-2		entire building				9.10.2.1 9.10.8.2			
0	Sprinkie	r System P	roposed			entire buildingnot required			7.10.0.2					
9	Standpip	e required				□ Yes ■ No	-		N/A	<u> </u>				
10	Fire Ala	rm require	d			□ Yes ■ No			9.10).18				
11			ply is Adeq	uate		Yes □ No			N/A					
12	High Bu	ilding			[□ Yes ■No	Non-combustible				N/A 9.10.8.11 / 3.2.2.76.			
13		ction Restr		permit	ted 1	equired								
		Constructio				□ Non-combus	tible	□ Both	0.46					
14	Mezzanine(s) Area m ² None									9.10.4.1. 9.10.1.3				
15	Occupant load based on 1 st Floor Occupancy: F2 / D Load: 6 persons								9.10).1.3				
16	Barrier-	free Design	I	■ Yes	□ No (Explai	n)	9.							
17	Hazardo	us Substan	ces	■ Yes					9.10	0.1.3.(4)				
18	Req	uired	Hor		ssemblies	Liste	o.).8.1.					
	F	ire		FRR (H	ours)	or Des	cription (SC	G-2)						
		stance	Floors	0	Hours									
		ting	Roof	0	_ Hours									
	(F)	RR)	Mezzanin	eN/A	Hours									
			F	RR of Suj Memb			Design No ription (SG-							
	Members Floors 0 Hours					(~)								
			Roof	_ 0	Hours									
19	Spatial S	Separation	– Construct	ion of Ex	terior Walls				9.10).14.				
	Wall	Area of EBF (m ²	I	L/H or H/L	Permitted Max. % of Openings	Proposed % of Openings	FRR (Hours)	Listed Design Descript	or	Comb Const	Comb. Constr. Non comb. Cladding	Non-comb. Constr.		
	North	58.8	52.8	3.3	100%	100%	0	Descript	1011	X	Claudilig			
	South	58.8	98.7	3.3	100%	100%	0			X				
	East	77.8	65.8	4.4	100%	100%	0			X				
	Last	77.0	17.7	7.7	10070	10070				v				

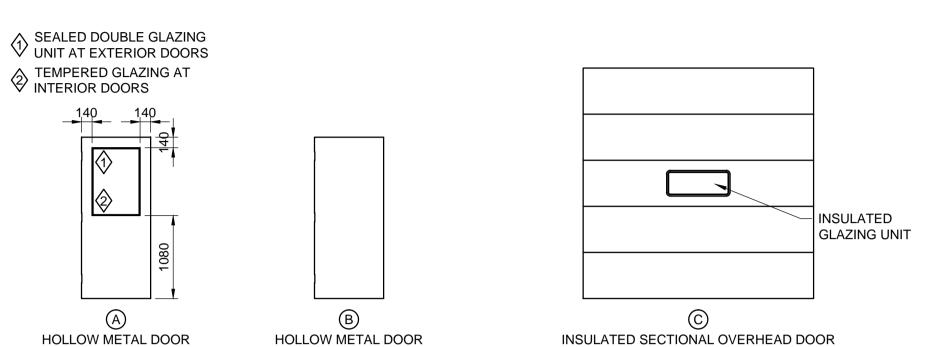
3.7.2.2 (4)

West 77.8 17.7 4.4 100%

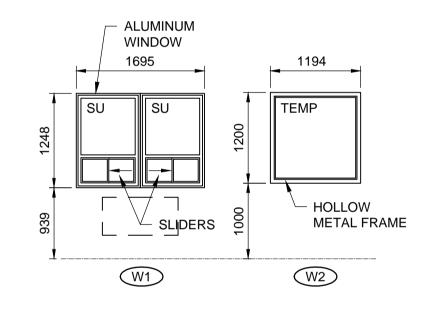
Based on Occupant Load: < 9 = 1 WC (Barrier Free Accessible)

20 Plumbing Fixture Requirements:

	ROOM FINISH SCHEDULE														
N	NAME	FLC	OR	NORTH WALL		SOUTH WALL		EAST WALL		WEST	WEST WALL		CEILING		
No.	NAME	FINISH	BASE	MAT	FINISH	MAT	FINISH	MAT	FINISH	MAT	FINISH	MAT	FINISH	HT.	REMARKS
101	CORRIDOR	SV	RB	СМИ	PNT	СМИ	PNT	СМИ	PNT	CMU	PNT	ACT	PNT	2700	
102	LUNCH ROOM	SV	RB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT	PREFIN	2700	
103	IT CLOSET	SV	RB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT	PNT	2700	
104	HWT CLOSET	SV	RB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT	PNT	2700	
105	WASHROOM	СТ	СТ	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	2400	
106	SHOWER	СТ	СТ	GWB / CT	PNT	GWB / CT	PNT	СТ	PNT	GWB	PNT	GWB	PNT	2400	CERAMIC WALL TILE IN SHOWER ONLY
107	LOCKERS	SV	RB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT	PNT	2700	
108	OFFICE	SV	RB	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT	PNT	2700	
109	HHW	HNDR	-	CONC PLYWD	PNT	CONC PLYWD	PNT	CONC PLYWD	PNT	CONC PLYWD	PNT	STEEL	PREFIN	4200	PAINT PLYWOOD SHEATHING



DOOR ELEVATIONS 1:50



WINDOW ELEVATIONS

ABBREVIATIONS

ACT	ACOUSTIC TILE
CONC	CONCRETE
CONT	CONTINUOUS
CT	CERAMIC TILE
GWB	GYPSUM WALL BOARD
HM	HOLLOW METAL
HR	HOUR
HDNR	HARDENER
NIC	NOT IN CONTRACT
PNT	PAINT
PREFIN	PREFINISHED
PLYWD	PLYWOOD
RB	RUBBER BASE
SLR	SEALER
SU	SEALED GLAZING UNIT
SV	SHEET VINYL
TEMP	TEMPERED
U/S	UNDERSIDE

CONSTRUCTION ASSEMBLIES								
(F1) FOUNDATION WALL	CONCRETE FACED INSULATED WALL PANEL (8mm CONCRETE ON 50 RIGID INSULATION MANUFACTURER; TECH-CRETE INSULATED PANEL PRODUCTS OR EQUIVALENT WITH METAL FLASHING AT CORNERS) 300 THICK CONCRETE WALL							
W1) EXTERIOR WALL	38 PRE-FINISHED METAL SIDING 38x89 HORIZONTAL STRAPPING @ 800 O.C. AIR BARRIER 16 PLYWOOD SHEATHING 140 WOOD STUDS @ 400 O.C. R20 BATT INSULATION VAPOUR BARRIER - 6 MIL POLYETHYLENE 16 PLYWOOD SHEATHING							
W2) EXTERIOR WALL	38 PRE-FINISHED METAL SIDING 38x89 HORIZONTAL STRAPPING @ 800 O.C. RIGID INSULATION (R7.5) AIR BARRIER 16 PLYWOOD SHEATHING 140 WOOD STUDS @ 400 O.C. R20 BATT INSULATION VAPOUR BARRIER - 6 MIL POLYETHYLENE 16 GYPSUM BOARD							
R1) ROOF	38 PRE-FINISHED METAL ROOFING 38 x 89 WOOD STRAPPING AT 610 O.C. ICE AND WATER SHIELD 16 PLYWOOD SHEATHING PRE-ENG WOOD TRUSSES @ 600 O.C. R40 BATT INSULATION VAPOUR BARRIER 16 PLYWOOD SHEATHING TO U/S TRUSSES PRE-FINISHED METAL LINER PANEL (LINER LOCATED IN WAREHOUSE AREA ONLY)							
P1) INTERIOR PARTITION	16 GYPSUM BOARD EACH SIDE 92 METAL STUDS @ 400 O .C. (3000 HIGH) PROVIDE 19 PLYWOOD BLOCKING TO WALL AT SURFACE MOUNTED ACCESSORIES AND EQUIPMENT							
(P2) INTERIOR PARTITION	16 GYPSUM BOARD EACH SIDE 152 METAL STUDS @ 400 O .C. (3000 HIGH) PROVIDE 19 PLYWOOD BLOCKING TO WALL AT SURFACE MOUNTED ACCESSORIES AND EQUIPMENT							
(P3) INTERIOR PARTITION	16 GYPSUM BOARD 64 METAL STUDS @ 400 O .C. (3000 HIGH) 16 PLYWOOD SHEATHING VAPOUR BARRIER 38 x 235 WOOD STUDS @ 400 O.C. R20 BATT INSULATION 16 PLYWOOD SHEATHING							

METRIC

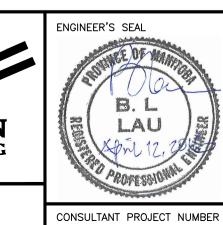
WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

Certificate of Authorization

Dillon Consulting Limited (MB)

No. 1789 Date: MAR. 4, 2016

	B.N ELE				DESIGNED BY	LDP	'1.	ENG
					DRAWN BY	PDR		Ä
					CHECKED BY	LDP	DILLON	
					APPROVED BY	ARR	CONSULTING	
.	3	ISSUED FOR CONSTRUCTION	16/04/12	NR				
)	2	ISSUED FOR ADDENDUM # 1	16/03/14	ARR	HOR. SCALE	AS NOTED	RELEASED FOR CONSTRUCTION	
<u> </u>	1	ISSUED FOR TENDER	16/03/04	ARR	VERTICAL			CON
	NO.	REVISIONS	DATE	BY	DATE		DATE	



13-8224

<u> </u>
Winnipeg

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

nipeg	
4R WINNIPEG DEPOT	CITY DRAWING NUMBER 1-0851A-A0001-001
PACIFIC AVENUE	SHEET OF 43

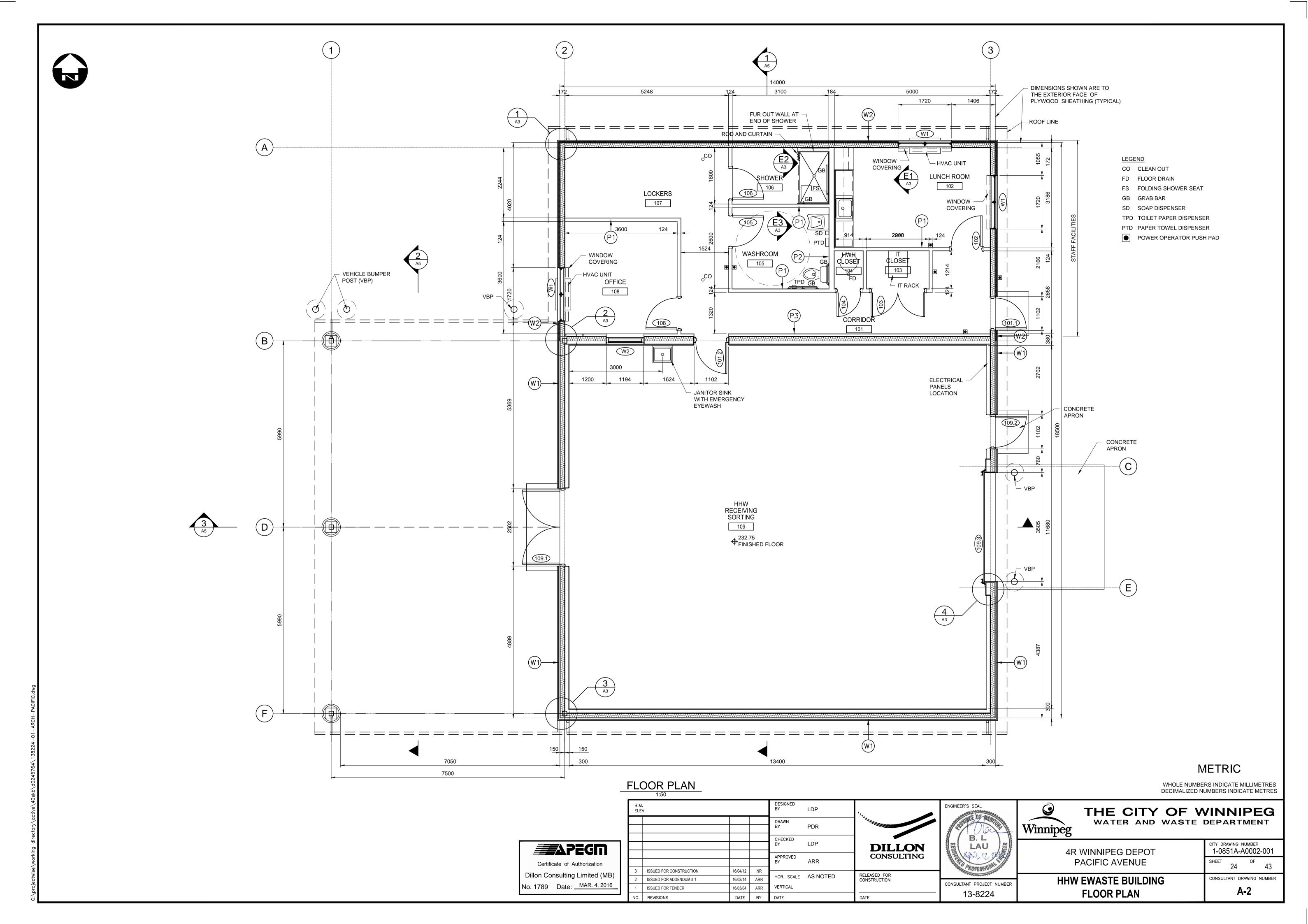
SCHEDULES AND ABBREVIATIONS

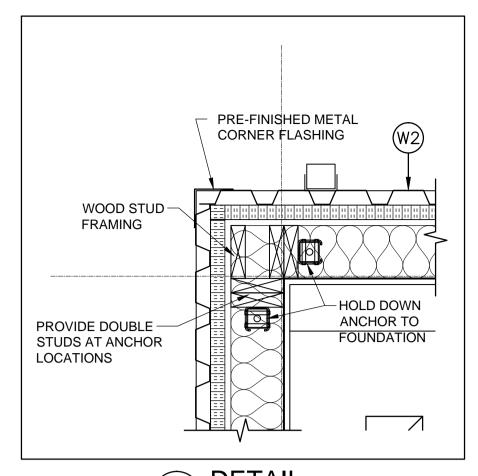
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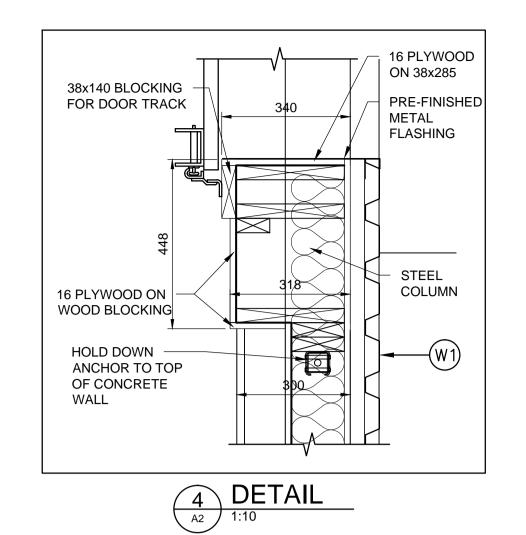
SHEET OF 23 43

CONSULTANT DRAWING NUMBER

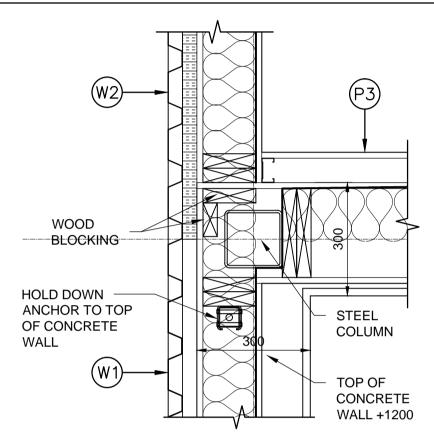
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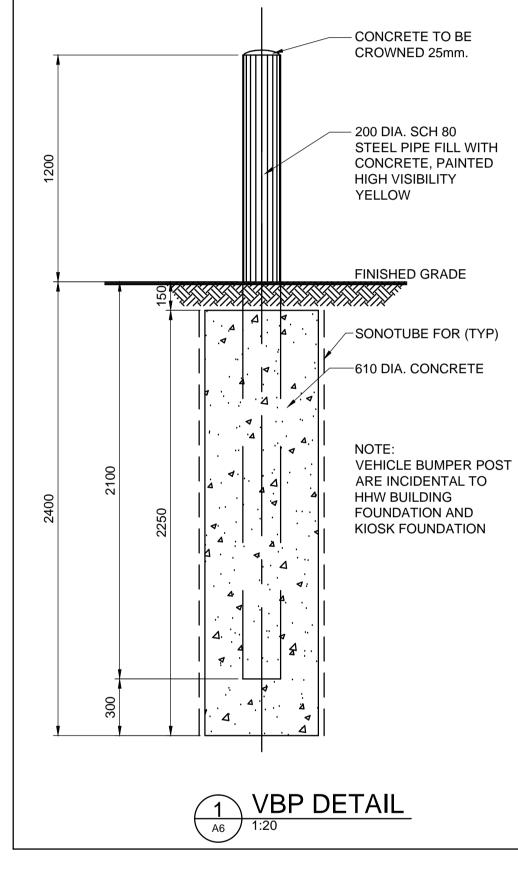


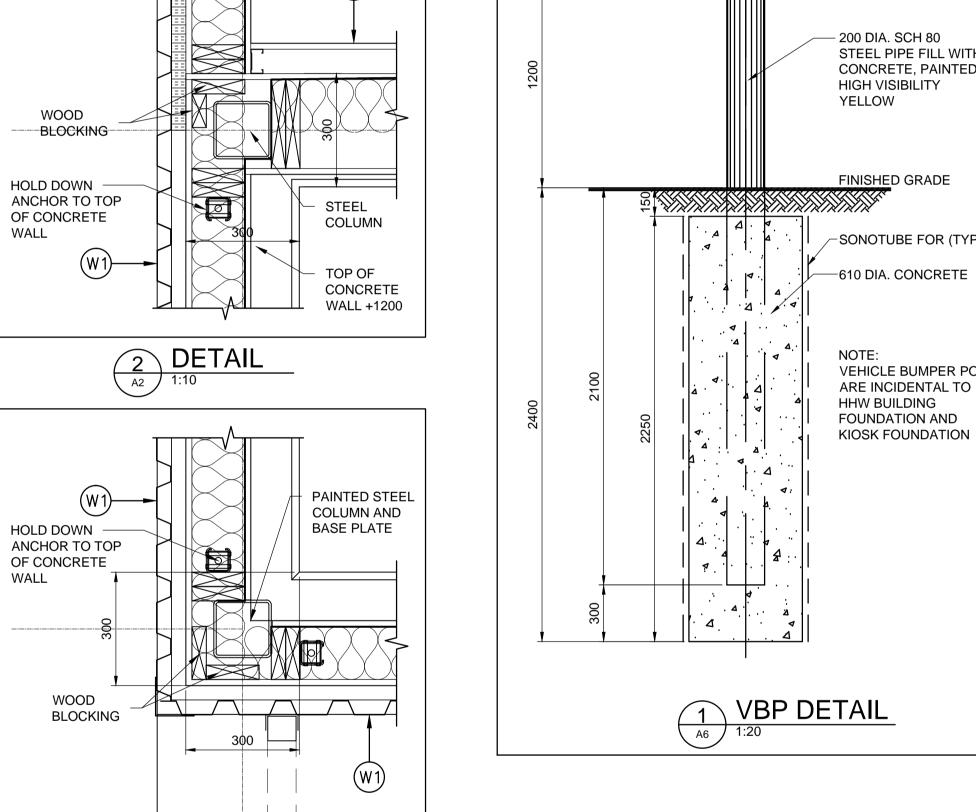


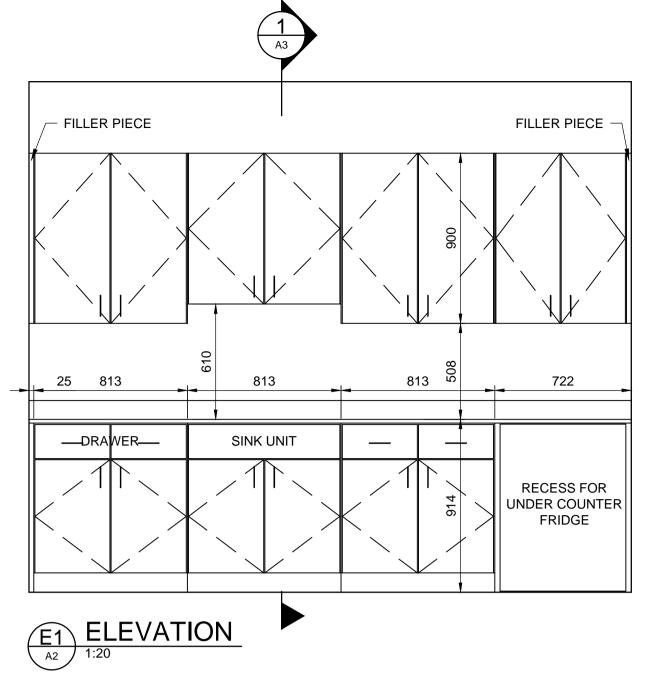


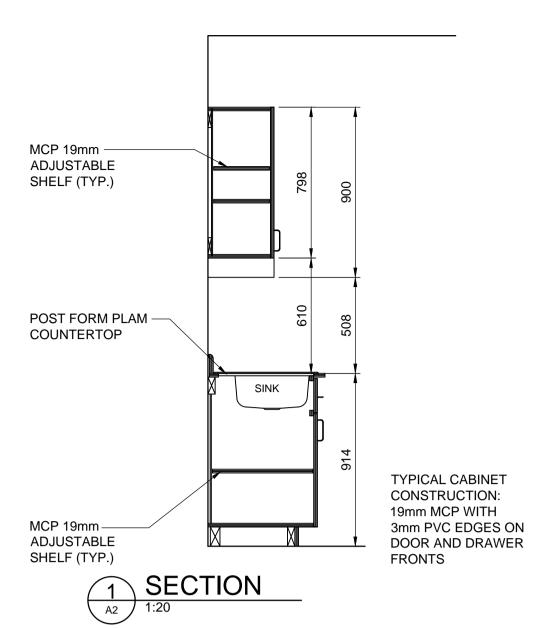


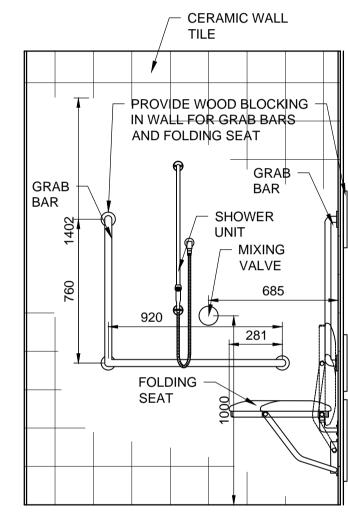
3 DETAIL
A2 1:10

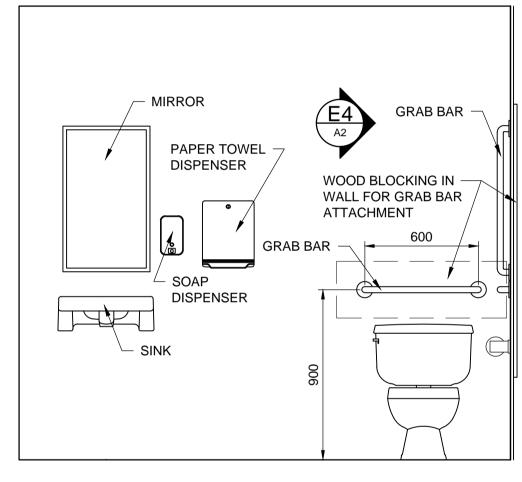


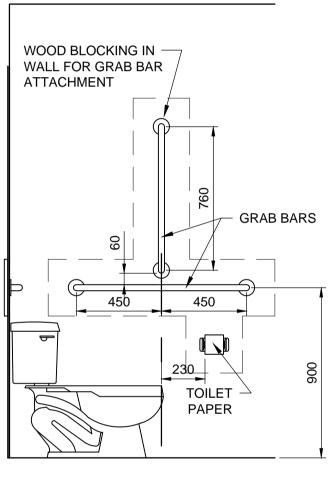












E2 ELEVATION
A2 1:20

E3 ELEVATION
1:20

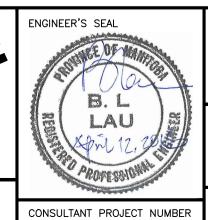
E4 ELEVATION
1:20

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

APEGM Certificate of Authorization Dillon Consulting Limited (MB) No. 1789 Date: MAR. 4, 2016

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					CHECKED BY	LDP	DILLON	
					APPROVED BY	ARR	CONSULTING	*
)	2	ISSUED FOR CONSTRUCTION	16/04/12	NR	HOR. SCALE	AS NOTED	RELEASED FOR CONSTRUCTION	
_	1	ISSUED FOR TENDER	16/03/04	ARR	VERTICAL			CO
	NO.	REVISIONS	DATE	BY	DATE		DATE	



13-8224

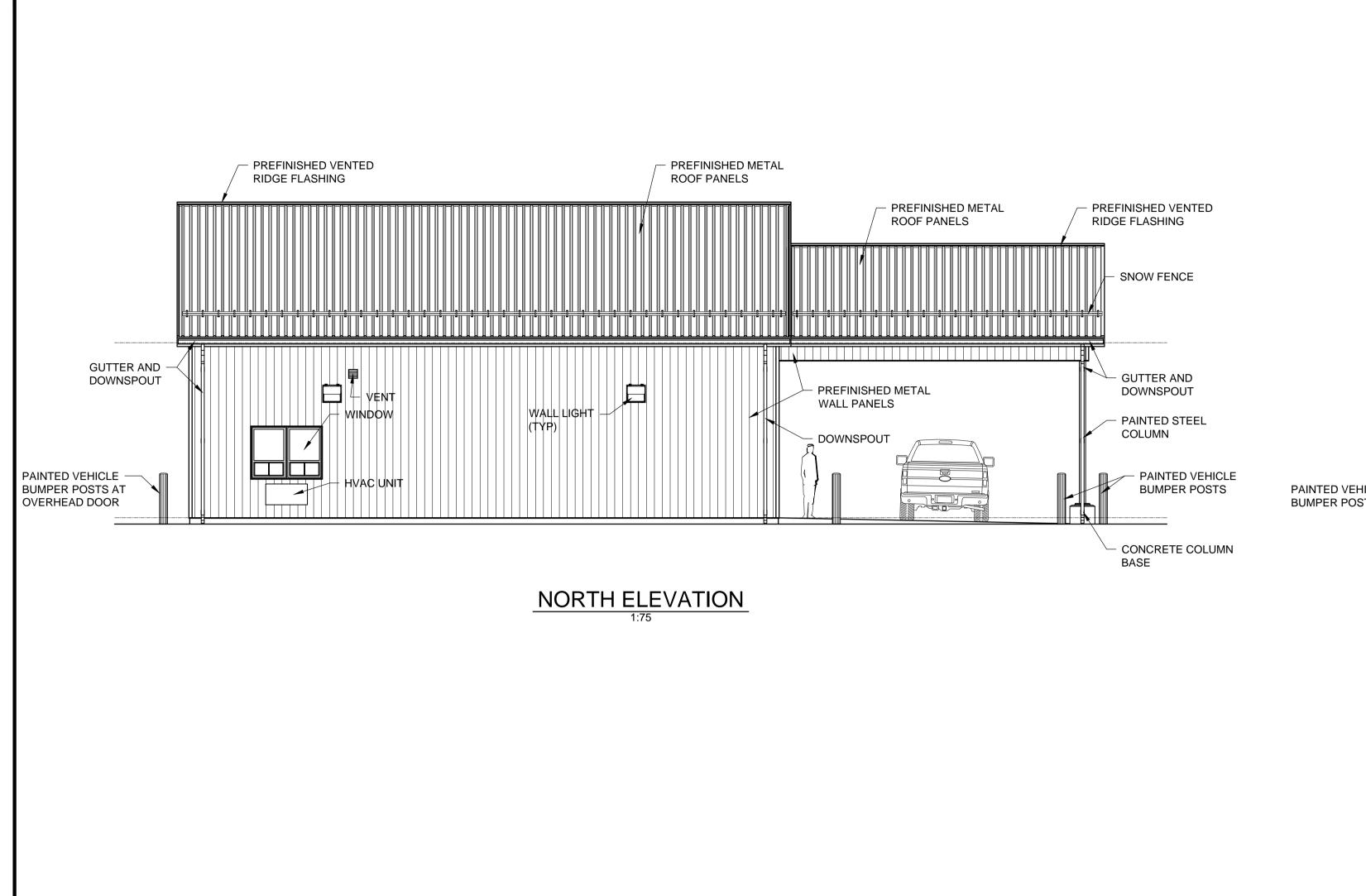
<u>©</u>
Winnipeg
1

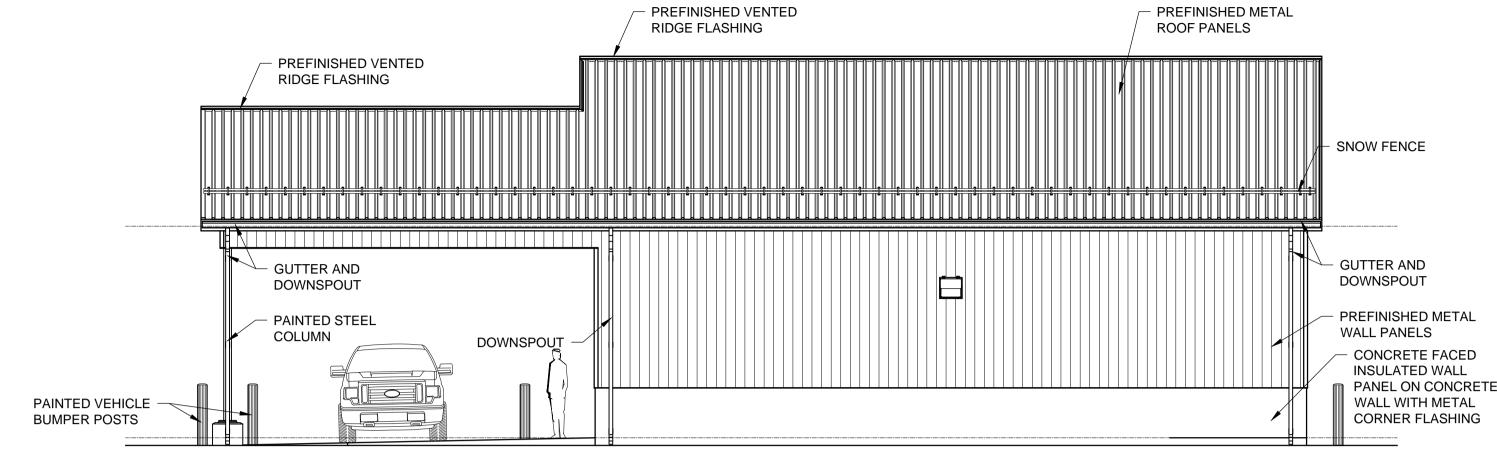
	THE CITY	OF	WINNIPEG
P 0	WATER AND	WASTE	E DEPARTMENT

CITY DRAWING NUMBER 1-0851A-A0003-001 **4R WINNIPEG DEPOT** PACIFIC AVENUE

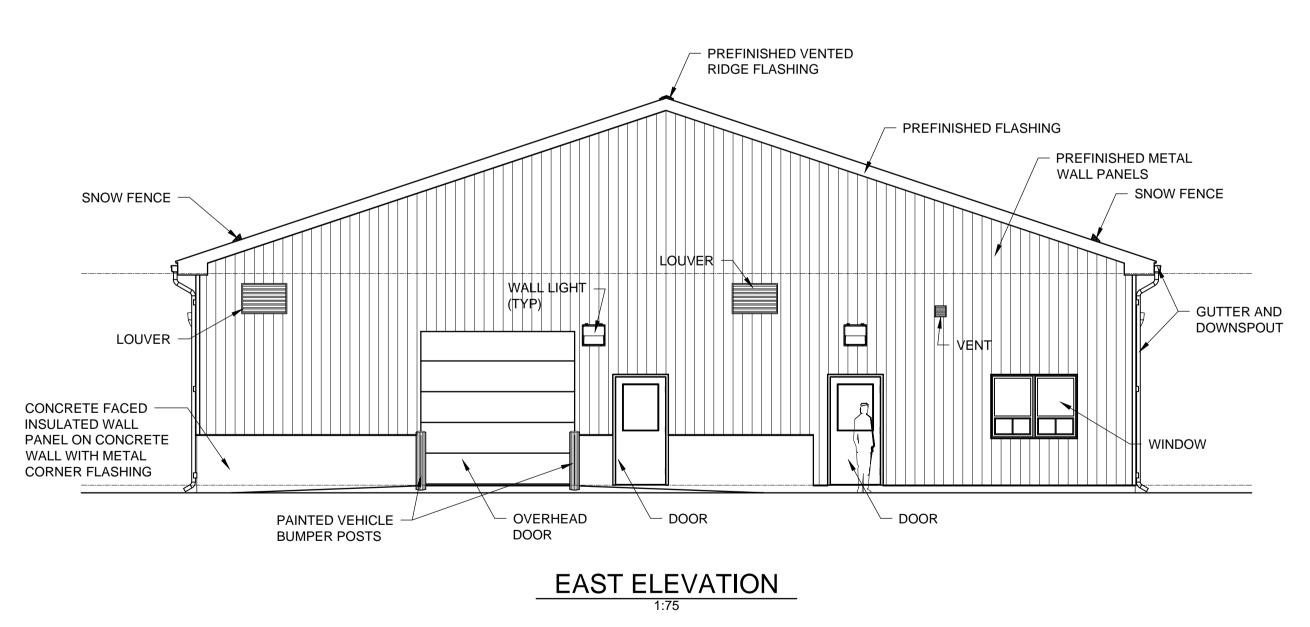
HHW EWASTE BUILDING PLAN DETAILS INTERIOR ELEVATIONS

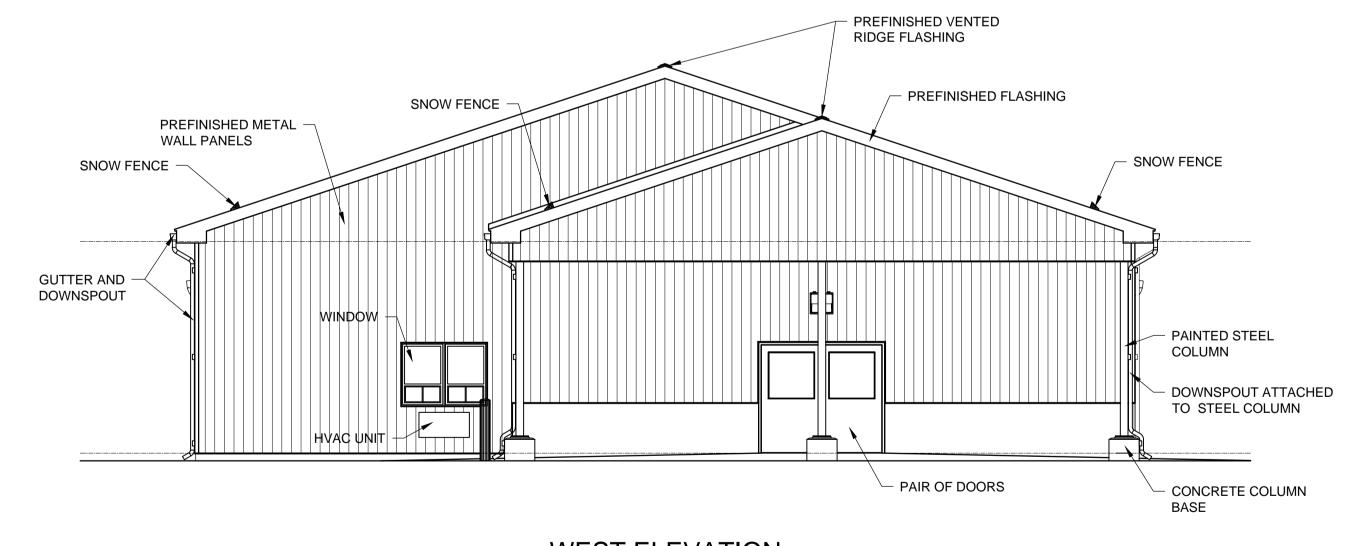
43 CONSULTANT DRAWING NUMBER **A-3**





SOUTH ELEVATION





WEST ELEVATION
1:75

METRIC

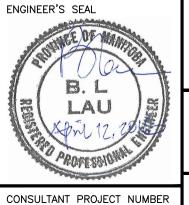
WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

Certificate of Authorization

Dillon Consulting Limited (MB)

No. 1789 Date: MAR. 4, 2016

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1					CHECKED BY	LDP	DILLON	25
					APPROVED BY	ARR	CONSULTING	
ı	2	ISSUED FOR CONSTRUCTION	16/04/12	NR	HOR. SCALE	AS NOTED	RELEASED FOR CONSTRUCTION	
	1	ISSUED FOR TENDER	16/03/04	ARR	VERTICAL		CONSTRUCTION	CONS
	NO.	REVISIONS	DATE	BY	DATE		DATE	



13-8224

	THE CITY OF WINNIPEG
Winnipeg	WATER AND WASTE DEPARTMENT

4R WINNIPEG DEPOT
PACIFIC AVENUE

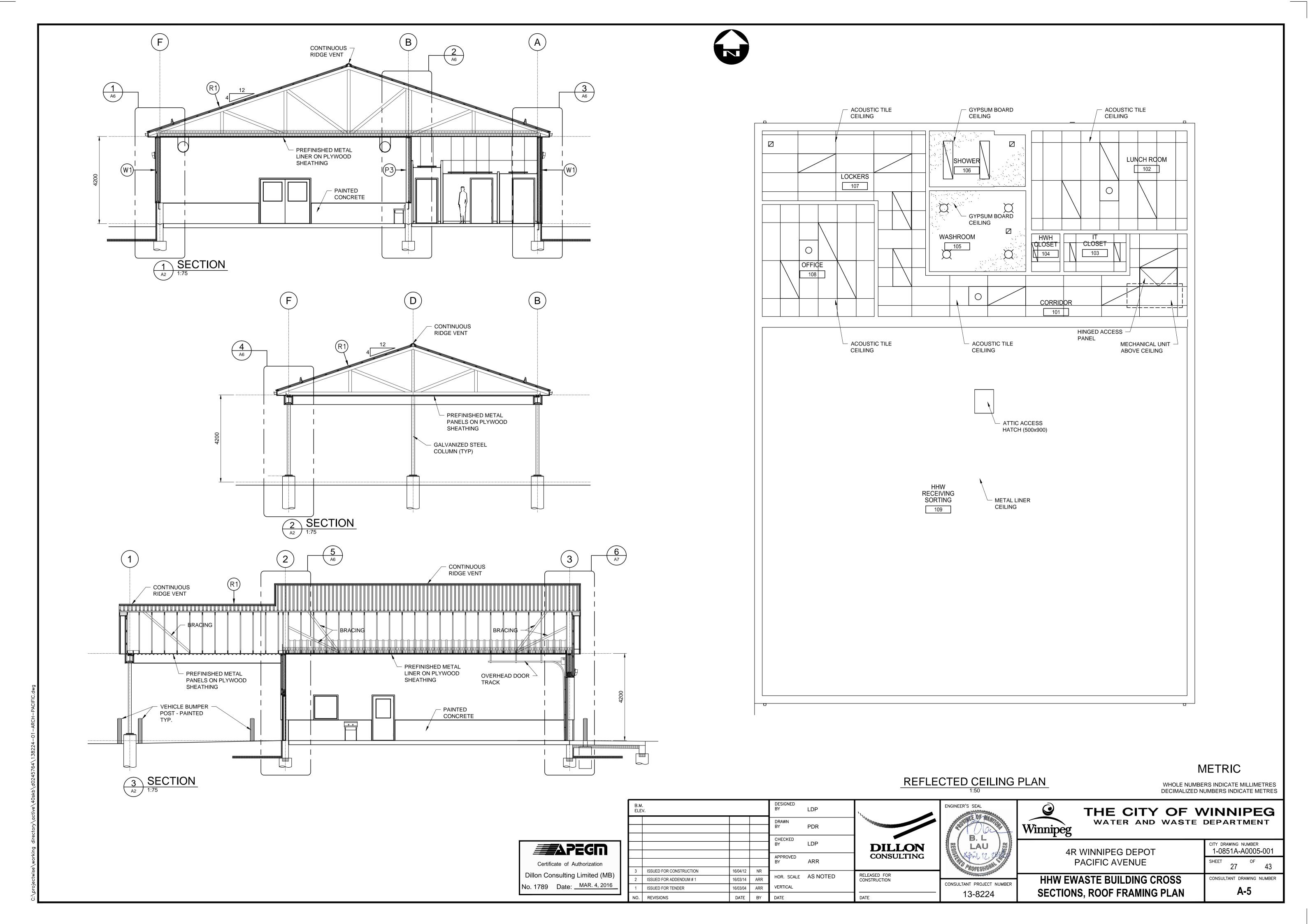
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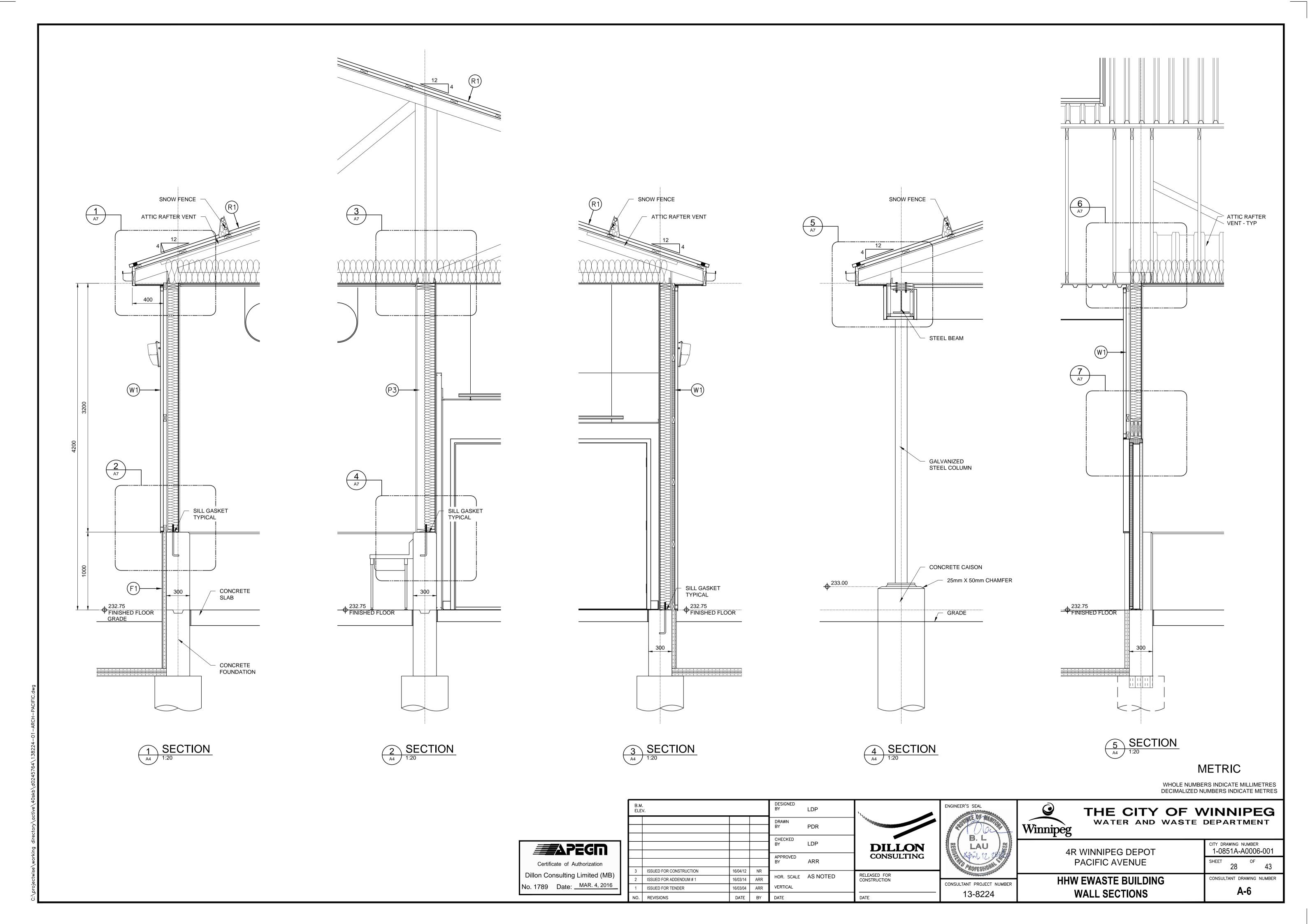
SHEET 26 OF 43

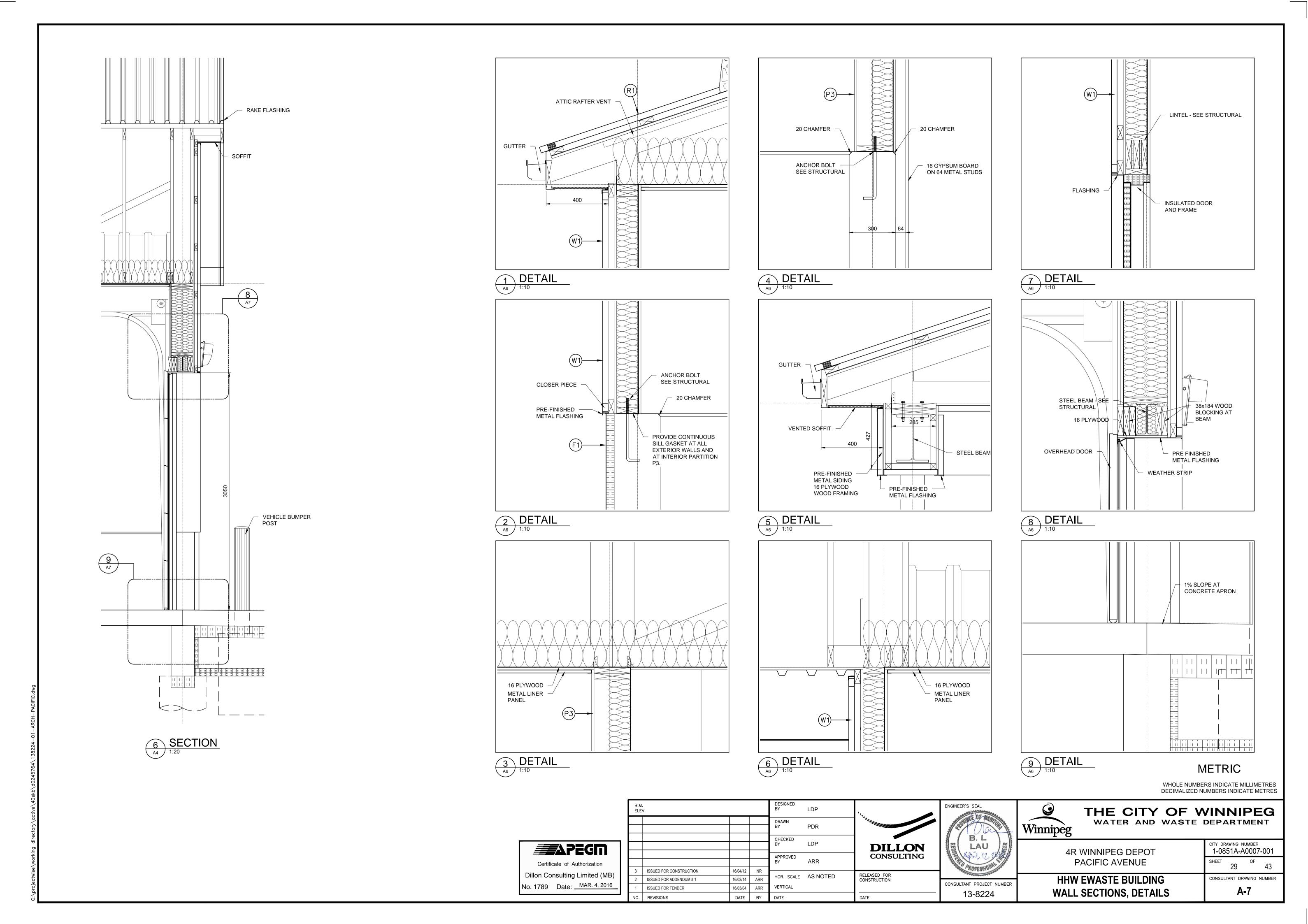
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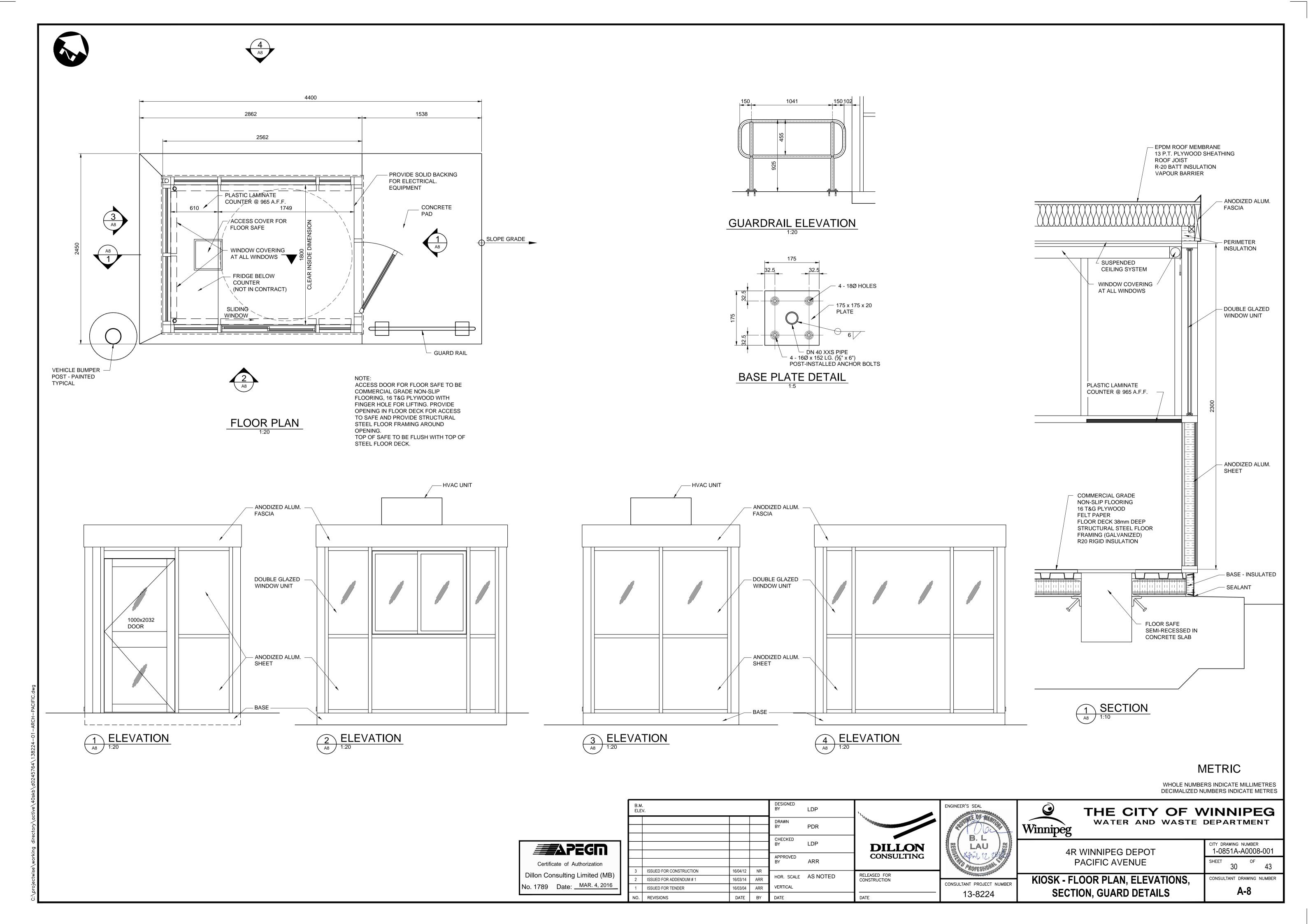
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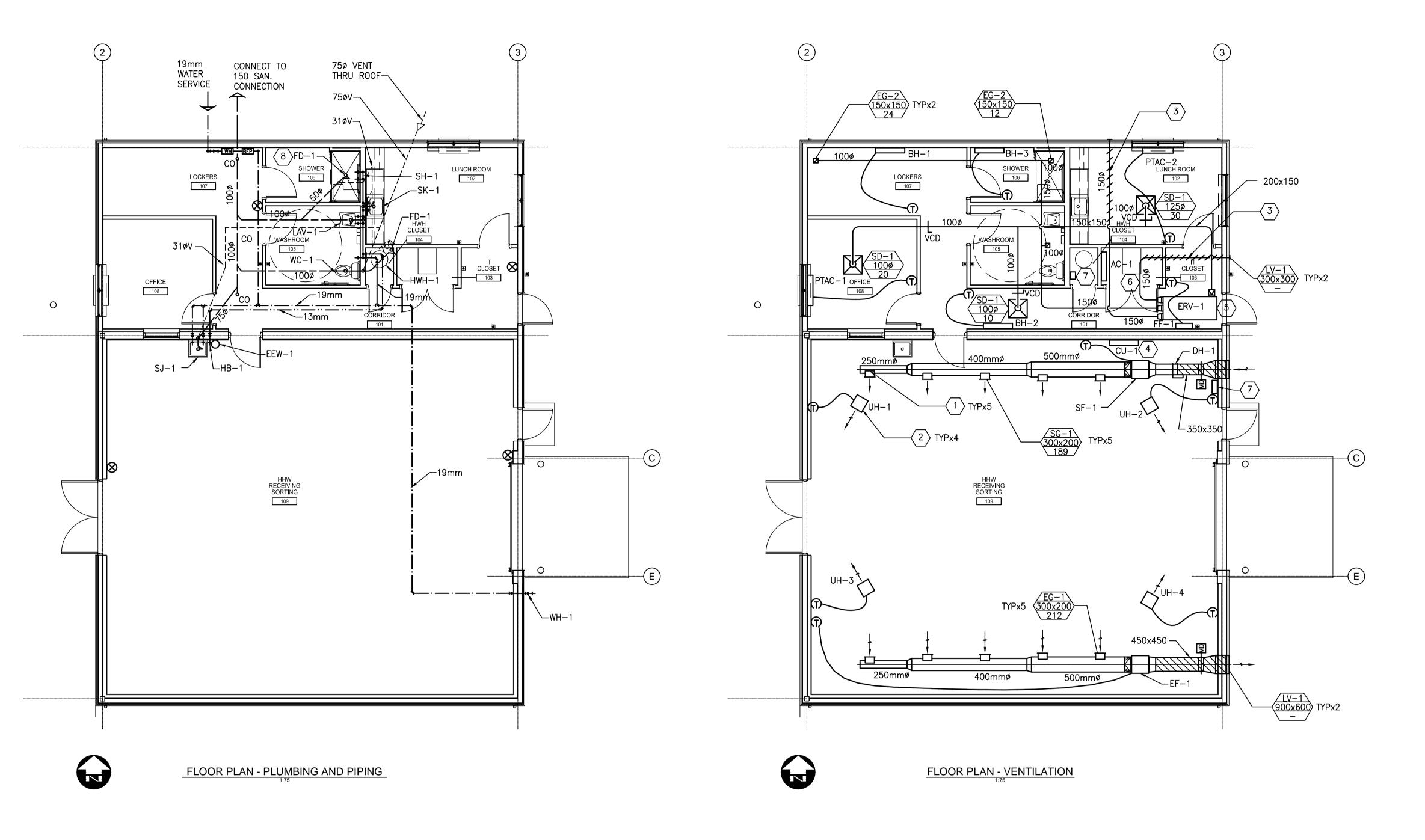
A-4











GENERAL NOTES:

1. MOUNT HHW AREA SUPPLY AND EXHAUST SYSTEM TIGHT TO UNDERSIDE OF CEILING.

GENERAL NOTES:

- 1. DIRECT SUPPLY DUCT 30° DOWN FROM HORIZONTAL.
- 2. MOUNT UNDERSIDE OF UNIT HEATERS 1000 FROM UNDERSIDE OF CEILING.
- 3. RUN TIGHT TO UNDERSIDE OF STRUCTURAL. EXTERNALLY INSULATE TO ERV-1.
- 4. MOUNT UNDERSIDE OF CU-1 1000 FROM UNDERSIDE OF CEILING.
- 5. MOUNT UNDERSIDE OF ERV-1 1400 FROM UNDERSIDE OF STRUCTURE. RUN CONDENSATE DRAIN TO FLOOR DRAIN IN HWH CLOSET.
- 6. RUN CONDENSATE DRAIN FOR AC-1 TO FLOOR DRAIN IN ADJACENT CLOSET.
- 7. VENTILATION CONTROL PANEL
- 8. SHOWER FLOOR DRAIN TO COME COMPLETE WITH MEMBRANE CLAMP

UNIT HEATER

VOLUME CONTROL DAMPER (MANUAL)

RETURN / EXHAUST GRILLE

SUPPLY DIFFUSER

FLEXIBLE DUCT

ACOUSTICALLY LINED DUCT

FIRE DAMPER

── MOTORIZED DAMPER

WALL MOUNTED THERMOSTAT

TYPE SIZE L/s GRILLE / DIFFUSER LABEL

EQ-?? EQUIPMENT LABEL

VOLUME CONTROL DAMPER

AIRFLOW DIRECTION

////. EXTERNALLY INSULATED DUCT — · — DOMESTIC COLD WATER

─ · · · ─ DOMESTIC HOT WATER

 \otimes FIRE EXTINGUISHER

WM WATER METER

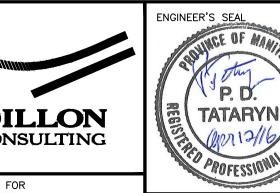
BACKFLOW PREVENTER

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

Certificate of Authorization Dillon Consulting Limited (MB) No. 1789 Date: MAR. 4, 2016

B.M.				DESIGNED BY	PT	'
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				CHECKED BY	NDC	DI I
				APPROVED BY	ARR	CON
3	ISSUED FOR CONSTRUCTION	16/04/12	NR		AO NOTED	RELEASED FO
2	ISSUED FOR ADDENDUM #1	16/03/14	ARR	HOR. SCALE	AS NOTED	CONSTRUCTION
1	ISSUED FOR TENDER	16/03/04	ARR	VERTICAL		
NO.	REVISIONS	DATE	BY	DATE		DATE



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CONSULTANT PROJECT NUMBER

13-8224

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THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT CITY DRAWING NUMBER 1-0851A-M0001-001

DEPOT PACIFIC AVENUE

CONSULTANT DRAWING NUMBER

HHWE WASTE BUILDING MECHANICAL **PLAN AND SECTIONS**

M-1

	ELECTRIC WATER HEATER SCHEDULE									
MARK	MANUFACTURER	MODEL	ELECTRICAL	INPUT (kW)	CAPACITY (L)	REMARKS				
HWH-1	A O SMITH	DRE-80	208V/3Ph	9	302					

		PACKA	GED TER	RMINALA	AIR CONDI	TIONER UI	NIT SCHE	DULE	
		MODEL	COOLING	HEATING	COIL LOAD	- kW (BTUh)	ELEC.	VOLTAGE	
MARK	MFR	NO.		L/s (CFM)	TOTAL	HEATING @	HEATING	/PH	NOTES
		NO.	L/3 (CI IVI)	L/3 (CI 1VI)	COOLING	8°C AMB.	COIL - kW	7511	
PTAC-1	ISLANDAIRE	EZ4207B	160 (340)	113 (240)	2.11 (7185)	2.05 (7000)	2.05	208V/1PH	1
PTAC-2	ISLANDAIRE	EZ4207B	160 (340)	113 (240)	2.11 (7185)	2.05 (7000)	2.95	208V/1PH	1
NOTES:									
1. UNIT C/	W WALL-MOU	JNTED PRO)GRAMMAE	3LE THERM	OSTAT WITH	TWO STAGES	S OF HEATI	NG, TWO S	TAGES OF COOLING

		DU	JCT H	EATER	SCHEDULE				
MARK	MFR	MODEL	AIRI	FLOW	ZONES	ELEC.	TRICAL RA	TINGS	NOTES
			L/s	CFM		VOLTS	PHASE	KW	
DH-1	THERMOLEC	FC	266	563	HHW BLDG	600	3	15	1
NOTES:									

	PLUMBING FIXTURES AND TRIM SCHEDULE				
		CON	INECTIO	N SIZE	
MARK	DESCRIPTION	DCW	DHW	DRAIN	REMARKS
		(mm)	(mm)	(mm)	
WC-1	WATER CLOSET: EQUAL TO AMERICAN STANDARD GLENWALL MODEL 2093.100 COMMERCIAL TOILET	13	N/A	76	
VVC-1	BOWL W/1.6 GPF MANUAL FLUSH TANK. SEAT: EQUAL TO AMERICAN STANDARD MODEL 5322.011.	13	IN/A	/0	
LAV-1	22C501 W/OFFSET OPEN GRID STRAINER.		13	32	
LAV-1			15	32	
SH-1	EQUAL TO ACORN 500ADA SERIES C/W DIVERTER VALVE, T/P BALANCING MIXING VALVE, 2.0 UPGPM		13	N/A	
311 1	HAND SHOWER	13	13	,	
SK-1	BASIN: EQUAL TO KINDRED MODEL QSL1719/8/3. FAUCET: EQUAL TO DELTA MODEL 2172LF-LHP H212.	13	13	32	
	BASIN: EQUAL TO AMERICAN STANDARD 9061.193 C/W WALL HANGER. FAUCET: EQUAL TO AMERICAN	13	13	38	
SJ-1	STANDARD MODEL 8354.112	15	13	36	
EEW-1	EMERGENCY EYE/FACE WASH: EQUAL TO HAWS MODEL 7360BT-7460BT. THERMOSTATIC MIXING	13	13	38	
CCAA-T	VALVE: HAWS MODEL TWBS.EWE.	15	13	36	
HB-1	HOSE BIBB: EQUAL TO ZURN MODEL 195-BFP-9 SERIES 13MM. FASTENERS: ZURN MODEL 300 SERIES.	19	N/A	N/A	
WH-1	WALL HYDRANT: EQUAL TO ZURN MODEL Z1320. WALL THICKNESS 270MM.	19	N/A	N/A	
ED 1	FLOOR DRAIN, FOLIAL TO ZURNI MODEL Z 221 VD FOMMA	NI /A	D1/0	AS	
FD-1	FLOOR DRAIN: EQUAL TO ZURN MODEL Z-221-VP 50MM.	N/A	N/A	INDICATED	

	GRILLE, REGISTER, DIFFUSER & LOUVRE SCHEDULE										
MARK	MFR	MODEL NO.	REMARKS								
SG-1	PRICE	520D/SDF/S/B12									
SD-1	PRICE	300x300/SCD/31/B12									
EG-1	PRICE	510ZD/SDF/S/B12									
EG-2	PRICE	80D/F/A/B12									
LV-1	PRICE	ZE439	C/W BIRD SCREEN								

	ELECTRIC UNIT HEATER SCHEDULE												
MARK	MFR	MODEL	AIR F	- LOW	HEATING	: О U ТРUТ		MP. SE		ELEC1	RICAL		NOTES
			L/s	CFM	kW	МВН	°C	°F	MOTOR kW	MOTOR HP	VOLTS	PHASE	
UH-1 TO UH-4	OUELLET	OAS05036	330	700	5	17	13	23	0.02	0.03	600	3	1
FF-1	OUELLET	OAWH01502	-	-	1.5	5	-	-	-	-	120	1	1
NOTES: 1. C/W OTL101C WA	ALL-MOUNTED THE	ERMOSTAT											

					MINI SP	LIT SYSTE	M SCHE	DULE				
MARK	LOCATIONS	SERVE	COOLING	CAPACITY	HEATING	CAPACITY	POWER			ACCEPTA	NOTES	
			kW	MBH	kW	MBH	VOLT	PHASE	MCA	MFR	MODEL	
AC-1/CU-1	AS INDICATED	IT CLOSET	2.6	9.0	N/A	N/A	208	1	10.0	TOSHIBA/CARRIER	RAS-09EACV/EKCV-UL	1, 2
NOTES:				•		•		•		•		

2. LOW-AMBIENT OPERATION

1. R-410A REFRIGERANT

	FAN SCHEDULE								
			AIR FLOW	ESP	MOTOR	MOTOR	POV	VER	
MARK	MFR	MODEL	(CFM)	(IN. WG)	(HP)	RPM	VOLT	PHASE	NOTES
SF-1	GREENHECK	SQ-140-VG	2000	0.5	3/4	1388	120	1	1
EF-1	GREENHECK	SQ-140-VG	2250	0.5	3/4	1388	120	1	1
NOTES:									
	1. C/W HANGI	NG RODS AN	D VIBRATION	ON ISOLAT	ORS.				

TAG:	ER	₹V-1
MODEL:	RGS	P 300
SUPPLY F	AN	
AIR FLOW RATE (L/s / CFM):	60	127
E.S.P. (Pa / in.WC):	125	0.50
MOTOR SIZE (hp):	0.	25
EXHAUST	FAN	
AIR FLOW RATE (L/s / CFM):	60	127
E.S.P. (Pa / in.WC):	125	0.50
MOTOR SIZE (hp):	0.	25
HEAT EXCHANGE	R (WINTER)	
TEMPERATURE EFFICIENCY (ACROSS UNIT) (%):	90	0.0
O/A TEMP (°C / °F):	-35.0	-31
E/A TEMP (°C / °F):	21.1	70
S/A TEMP (°C / °F):	15.5	59.9
HEAT EXCHANGER	R (SUMMER)	
TEMPERATURE EFFICIENCY (%):	73	3.3
O/A TEMP DB (°C / °F):	30.0	86
O/A TEMP WB (°C / °F):	22.8	73
E/A TEMP DB (°C / °F):	23.9	75
E/A TEMP WB (°C / °F):	16.9	62.5
S/A TEMP DB (°C / °F):	25.5	77.9
S/A TEMP WB (°C / °F):	21.5	70.7
SUPPLY FILTER:	ME	RV 8
PHYSICAL [DATA	
LENGTH (mm / in.):	1,781	70.13
VIDTH (mm / in.):	758.8	29.88
HEIGHT (mm / in.):	257.2	10.13
EST. OPERATING WT. (kg / lbs)	180	400
ELECTRICAL	DATA	
/OLTAGE/PHASE:	120	0 / 1

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

ZPEGM Certificate of Authorization Dillon Consulting Limited (MB) No. 1789 Date: MAR. 4, 2016

B.M. ELEV. ISSUED FOR ADDENDUM #1 ISSUED FOR TENDER

NO. REVISIONS

DRAWN BY JVH CHECKED BY NDC **DILLON**CONSULTING APPROVED BY ISSUED FOR CONSTRUCTION 16/04/12 NR 16/03/14 ARR RELEASED FOR CONSTRUCTION HOR. SCALE AS NOTED 16/03/04 ARR VERTICAL

DATE BY

CONSULTANT PROJECT NUMBER

13-8224

Winnipeg

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

CITY DRAWING NUMBER 1-0851A-M0002-001 **4R WINNIPEG DEPOT** PACIFIC AVENUE

HHWE WASTE BUILDING CONSULTANT DRAWING NUMBER MECHANICAL SCHEDULES

M-2

SINGLE LINE DIAGRAM

LOAD	DESCRIPTION					DESCRIPTION	LOA
5.0KW	UNIT HEATER UH-1	1 3 15A 5	+	30A	2 4 6	TVSS	
5.0KW	UNIT HEATER UH-2	7 9 15A		20A	8 10 12	DUCT HEATER DH-1	
5.0KW	UNIT HEATER UH-3	13 15 17		90A	14 16 18	TRANSFORMER TR-1	
		19	T	20A /	20	OUTDOOR AREA LIGHTING	
5.0KW	UNIT HEATER UH-4	21 15A		20A 🦯	22	OUTDOOR AREA LIGHTING	
		23		15A 🦯	24	OUTDOOR AREA LTG. CONTACTOR, PHOTOCELL, TIMER	
	SPACE	25		20A /	26	OUTDOOR AREA LIGHTING	
	SPACE	27	L	15A 🔨	28	KIOSK	
	SPACE	29		لر	30	RIOGR	
	SPACE	31			32	SPACE	
	SPACE	33	L		34	SPACE	
	SPACE	35			36	SPACE	
	SPACE	37			38	SPACE	
	SPACE	39	L		40	SPACE	
	SPACE	41	· ·		42	SPACE	

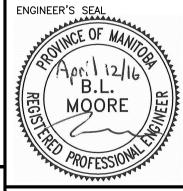
LOAD	DESCRIPTION			DESCRIPTION	LC
		1 🗖	15A ^ 2	HHW RECEIVING SORTING RM. NORTH RECEPTACLES	
	TVSS	3 30A	15A 4	HHW RECEIVING SORTING RM. SOUTH RECEPTACLES	+
		5	15A 6	SOUTH WALL EXTERIOR RECEPTACLE	+
	HAZARDOUS HOUSEHOLD WASTE RM. LIGHTING	7 1 5A	15A 8		\dagger
	HAZARDOUS HOUSEHOLD WASTE RM. LIGHTING	9 1 5A	15A 10	WEST WALL EXTERIOR PARKING RECEPTACLE	
	EXIT LIGHTS	11 1 5A	15A 12	WEST WALL EXTERIOR PARKING RECEPTACLE	\top
	CORRIDOR LIGHTING	13 1 5A	15A 14	WEST WALL EXTERIOR PARKING RECEPTAGE	
	LUNCH ROOM LIGHTING	15 1 5A	20A 16	LUNCHROOM COUNTER RECEPTACLE	
	WASHROOM AND SHOWER ROOM LIGHTING	17 1 5A	20A 18	LUNCHROOM COUNTER RECEPTACLE	
	OFFICE AND LOCKER ROOM LIGHTING	19 1 5A	15A 20	AUTOMATIC DOOR OPENERS	1
	HOT WATER TANK CLOSET & IT CLOSET LIGHTING	21 2 0A	15A 22	RECEIVING AREA RECEPTACLES	1
	CANOPY OUTDOOR LIGHTING	23 1 5A	15A 24	OUTDOOR RECEPTACLES	\top
	BUILDING OUTDOOR WALL PACK LIGHTING	25 1 5A	15A 26		
	LUNCHROOM RECEPTACLES	27 1 5A	15A 28		\top
	LUNCHROOM RECEPTACLE	29 1 5A	15A 30	OLIOWED BOOM WASHINGON DECERTAGES	\top
		31	15A 32		\top
	IT CLOSET 120/208V 3PH 20AMP RATED UPS RECEPTACLE	33 20A	20A 34		\top
	OF S REGEF FACE	35	15A 36		\top
	IT CLOSET RECEPTACLE	37 1 5A	38		\top
	IT CLOSET RECEPTACLE	39 1 5A	35A 40	THOT WATER TANK	
		41 2 0A	42		
	IT CLOSET 208V 20AMP RATED RECEPTACLE	43	20A 44		\top
	LOCKER ROOM BASEBOARD HEATER BH-1	45 2 0A	46	OFFICE PTAC-1	
	SHOWER ROOM BASEBOARD HEATER BH-3	47 1 5A	20A 48	LUNCHROOM PTAC-2	
	CORRIDOR BASEBOARD HEATER BH-2	49 2 0A	50	7	
	FORCE FLOW FF-1	51 2 0A	15A 52		
	LOCKER ROOM RECEPTACLES	53 1 5A	54	SPLIT SYSTEM AC1/CU1	
	OFFICE RECEPTACLES	55 1 5A	56	SPACE	
	OFFICE RECEPTACLES	57 1 5A	58	SPACE	
	SUPPLY FAN	59 1 5A	60	SPACE	
	EXHAUST FAN	61	62	SPACE	
	ERV CONTROL PANEL	63 1 5A	64	SPACE	
	SPARE	65	66	SPACE	
	SPARE	67	68	SPACE	
	SPARE	69	70	SPACE	
	SPACE	71	72	SPACE	
	SPACE	73	74	SPACE	
	SPACE	75	76	SPACE	
	SPACE	77	78	SPACE	
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METRIC

WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

APEGIN Certificate of Authorization Dillon Consulting Limited (MB) No. 1789 Date: MAR. 4, 2016

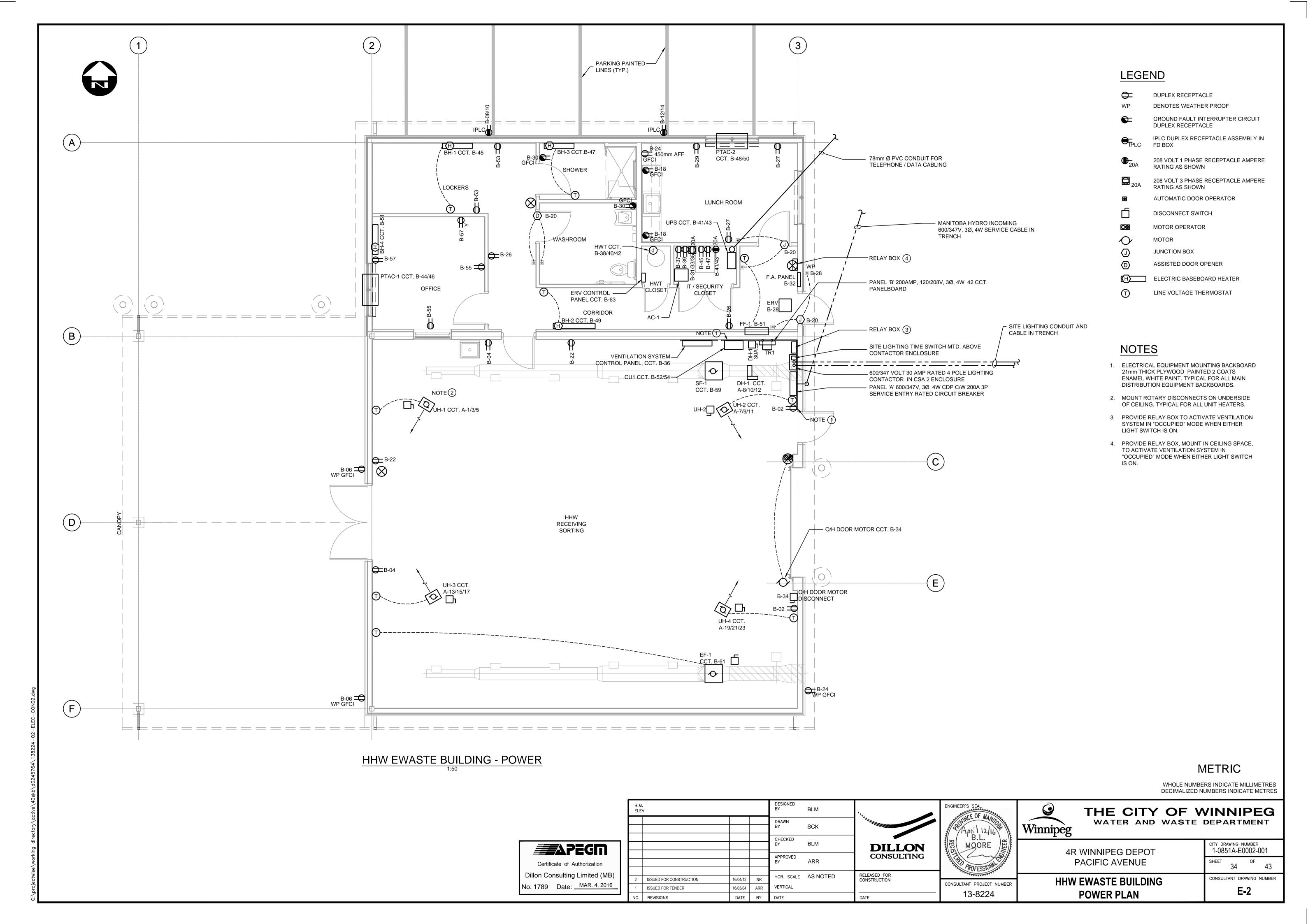
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1					CHECKED BY	BLM	DILLON	B.L. MOORE
					APPROVED BY	ARR	CONSULTING	A POLICE ON LEGAL
					LIOD SCALE	AS NOTED	RELEASED FOR	101 F2210
	2	ISSUED FOR CONSTRUCTION	16/04/12	NR	HOR. SCALE	ASNUTED	CONSTRUCTION	CONCLUTANT DROJECT NUMBER
	1	ISSUED FOR TENDER	16/03/04	ARR	VERTICAL			CONSULTANT PROJECT NUMBER
_	NO.	REVISIONS	DATE	BY	DATE		DATE	13-8224

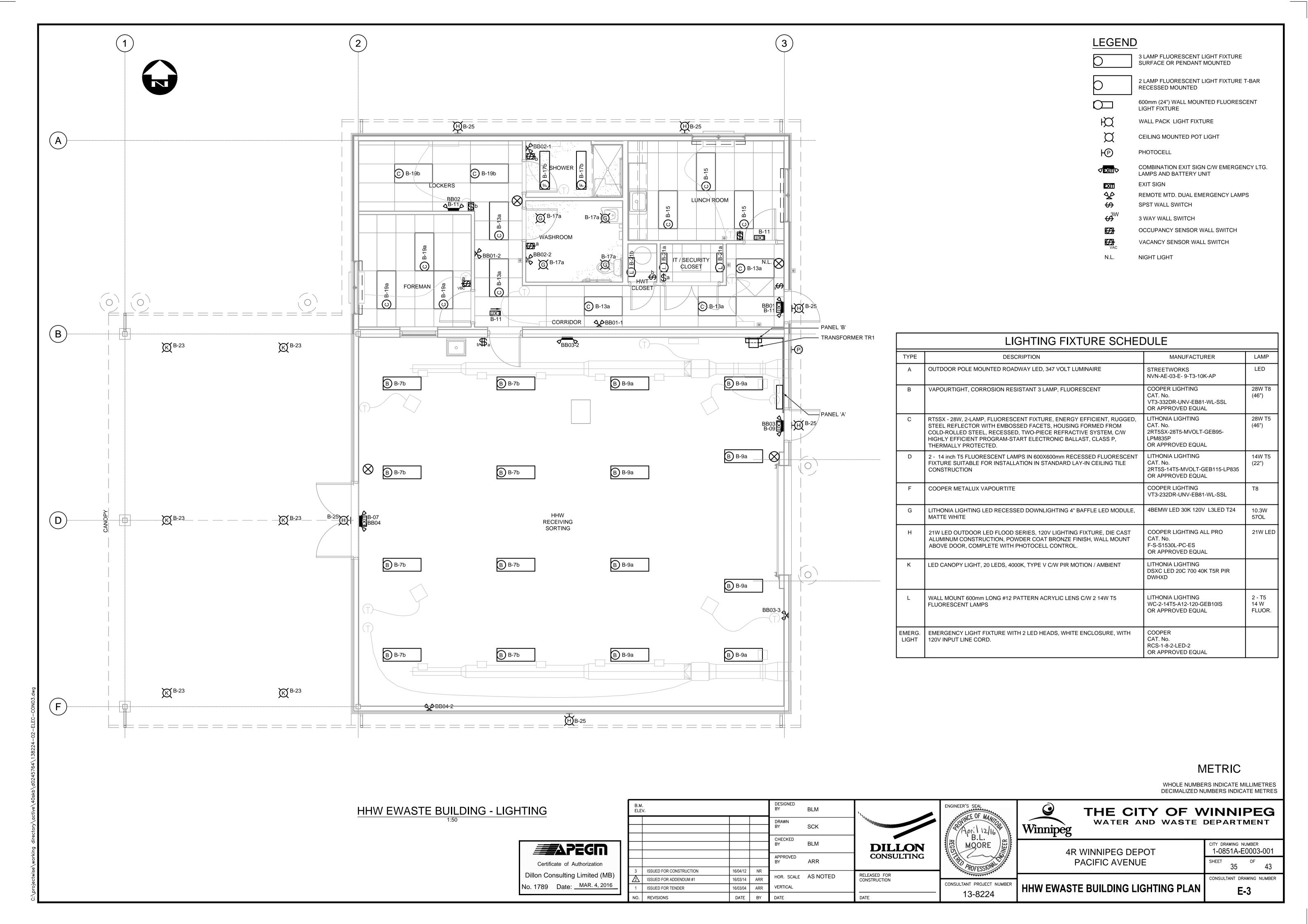


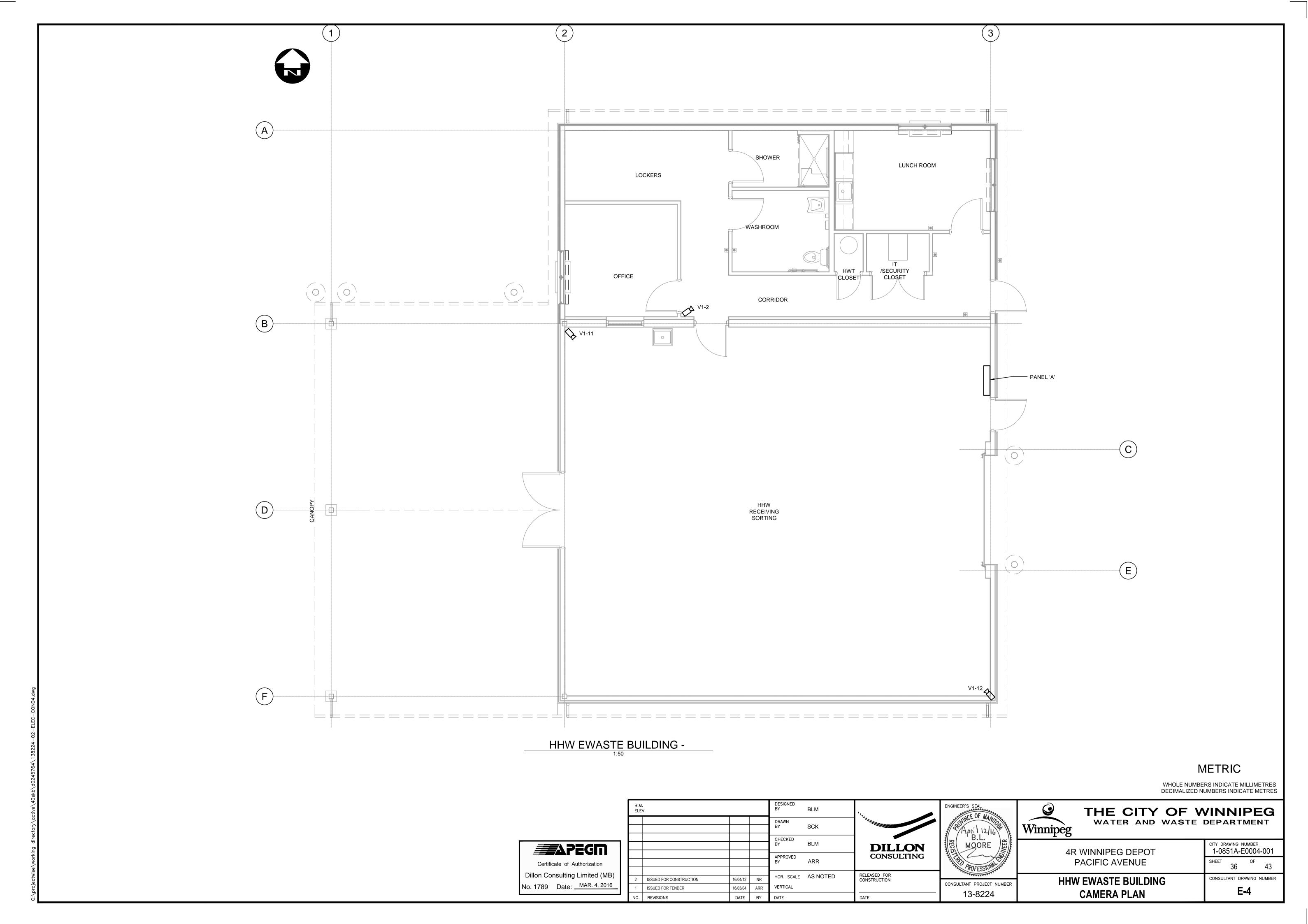


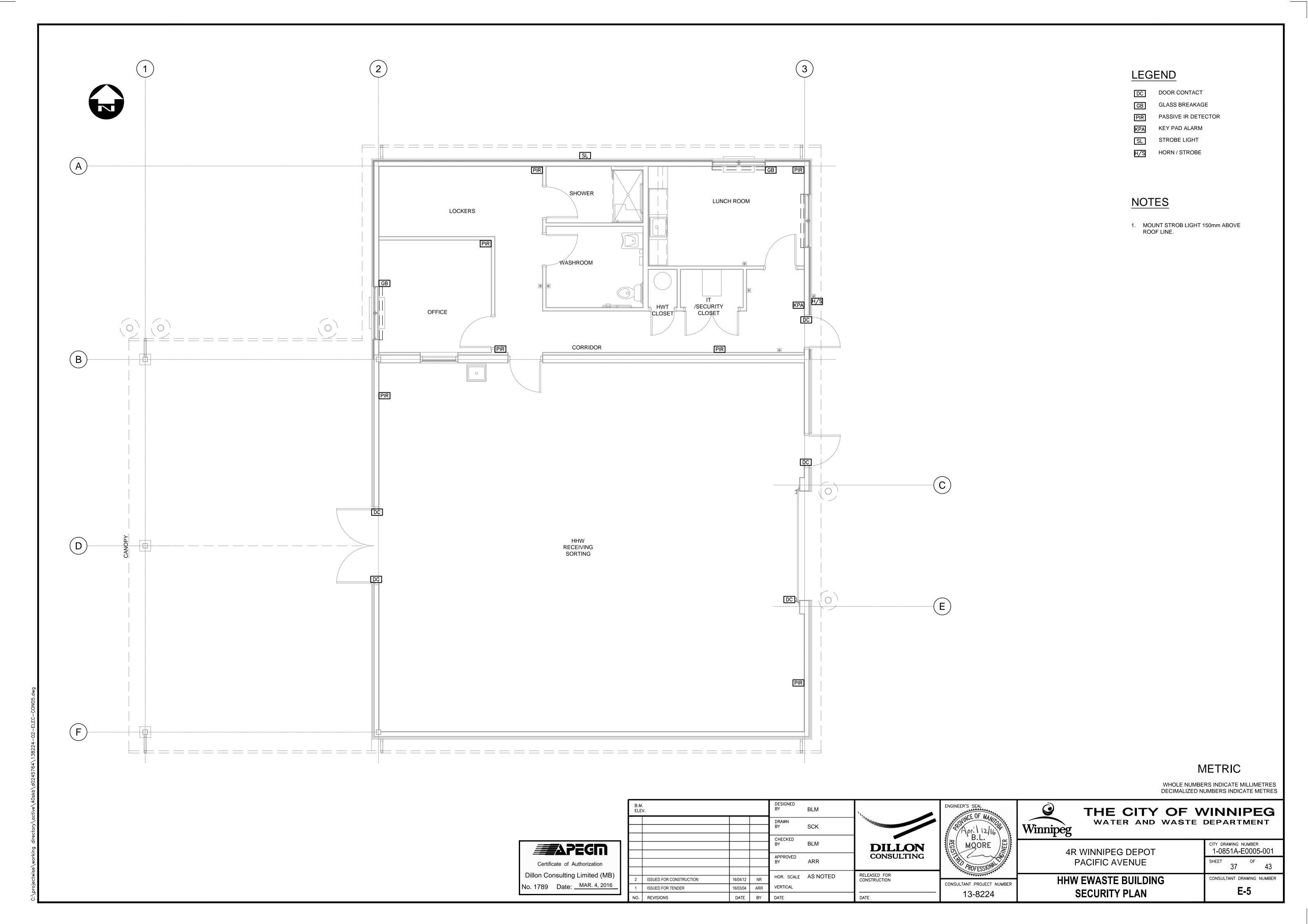
THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

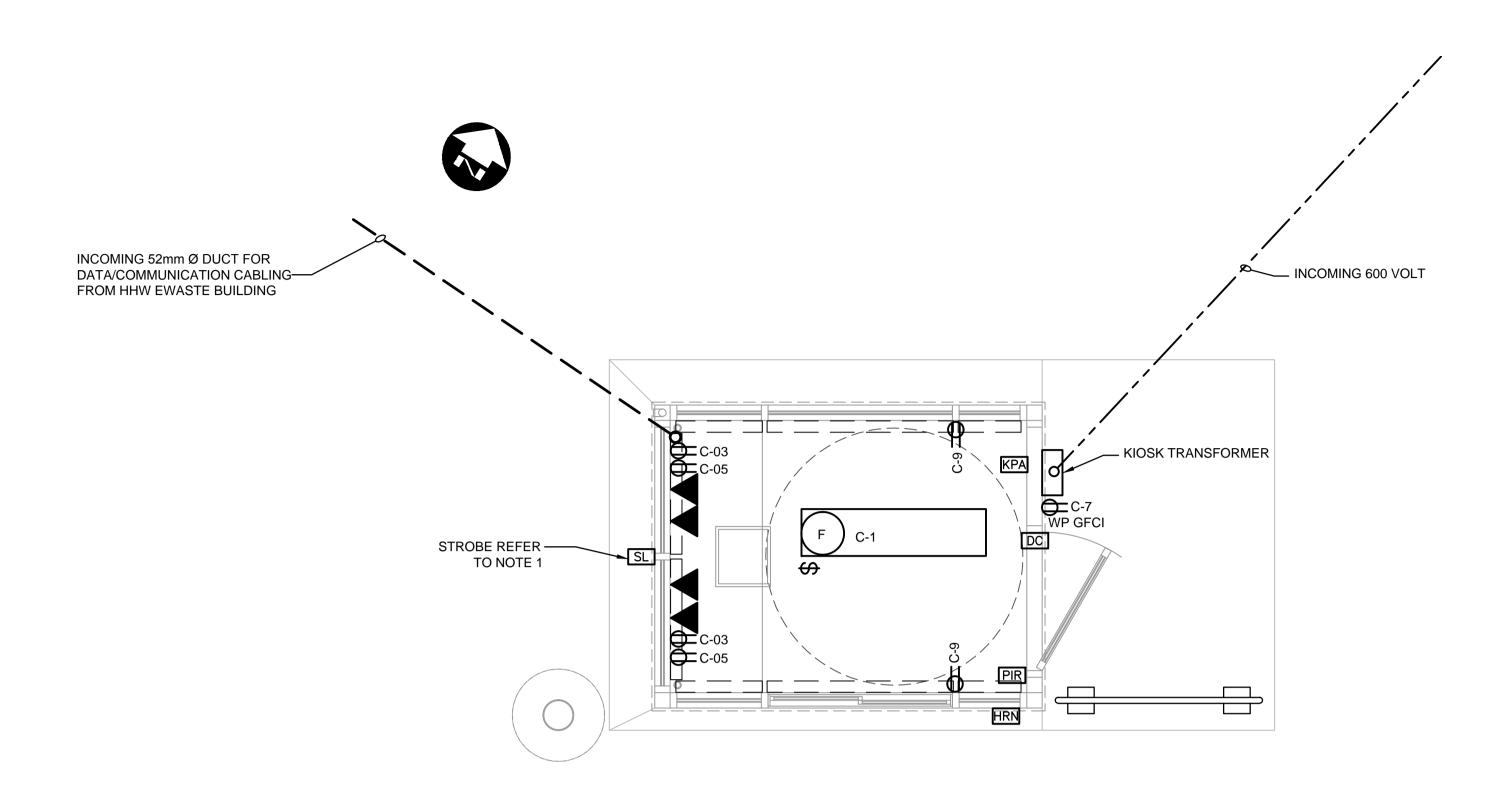
CITY DRAWING NUMBER 1-0851A-E0001-001 **4R WINNIPEG DEPOT** PACIFIC AVENUE CONSULTANT DRAWING NUMBER ONE LINE DIAGRAM E-1











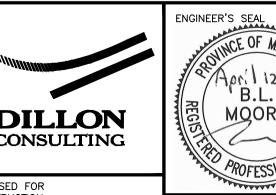
KIOSK FLOOR PLAN

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

APEGIN Certificate of Authorization Dillon Consulting Limited (MB) No. 1789 Date: MAR. 4, 2016

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	1	ISSUED FOR TENDER	16/03/04	ARR	VERTICAL		
	NO.	REVISIONS	DATE	BY	DATE		DATE



	April 12/16 B.L. REG MOORE	
	PROFESSIONAL PROFE	
ı	CONCLUTANT DECLECT NUMBER	

13-8224

ı	
ı	TTT
ı	Winnipeg
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THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

4R WINNIPEG DEPOT	city drawing number 1-0851A-E0006-001
PACIFIC AVENUE	SHEET OF 43

KIOSK BUILDING ELECTRICAL

LEGEND

NOTES

2 LAMP SURFACE MOUNTED GASKETTED FLUORESCENT LIGHT FIXTURE

SPST WALL SWITCH

DUPLEX RECEPTACLE

DATA SIGNAL OUTLET

PASSIVE IR DETECTOR

DOOR CONTACT

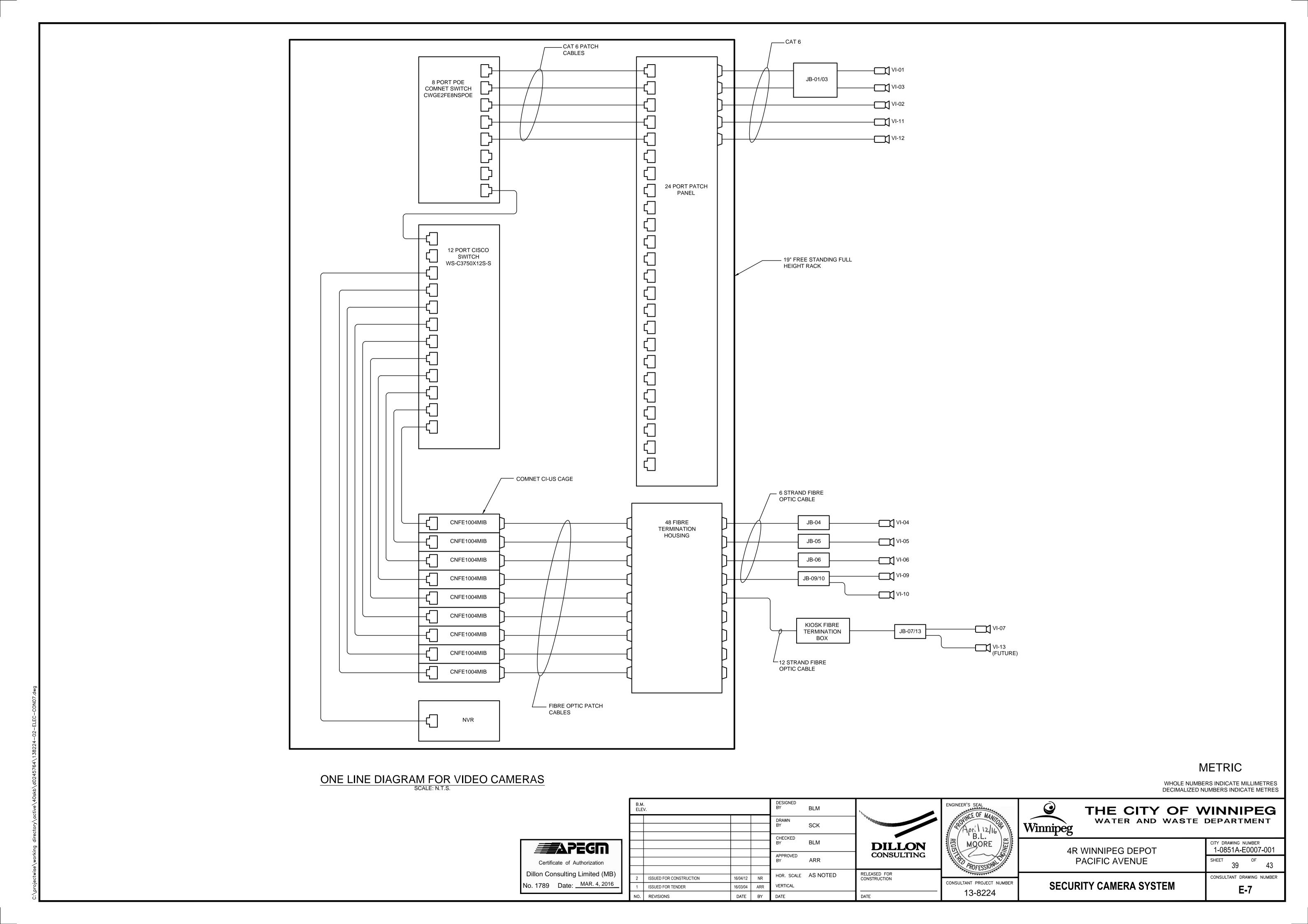
KEY PAD ALARM

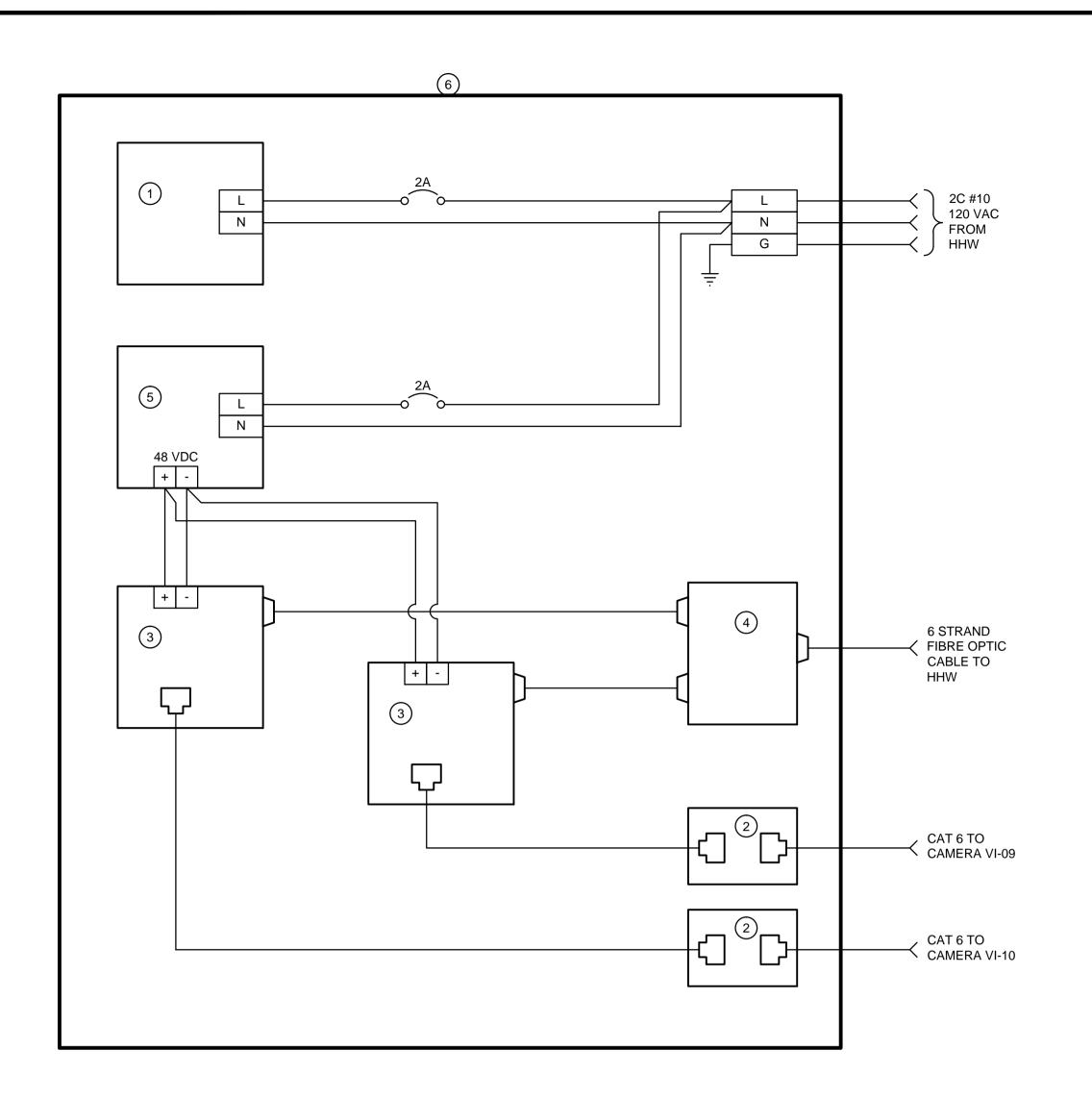
STROBE

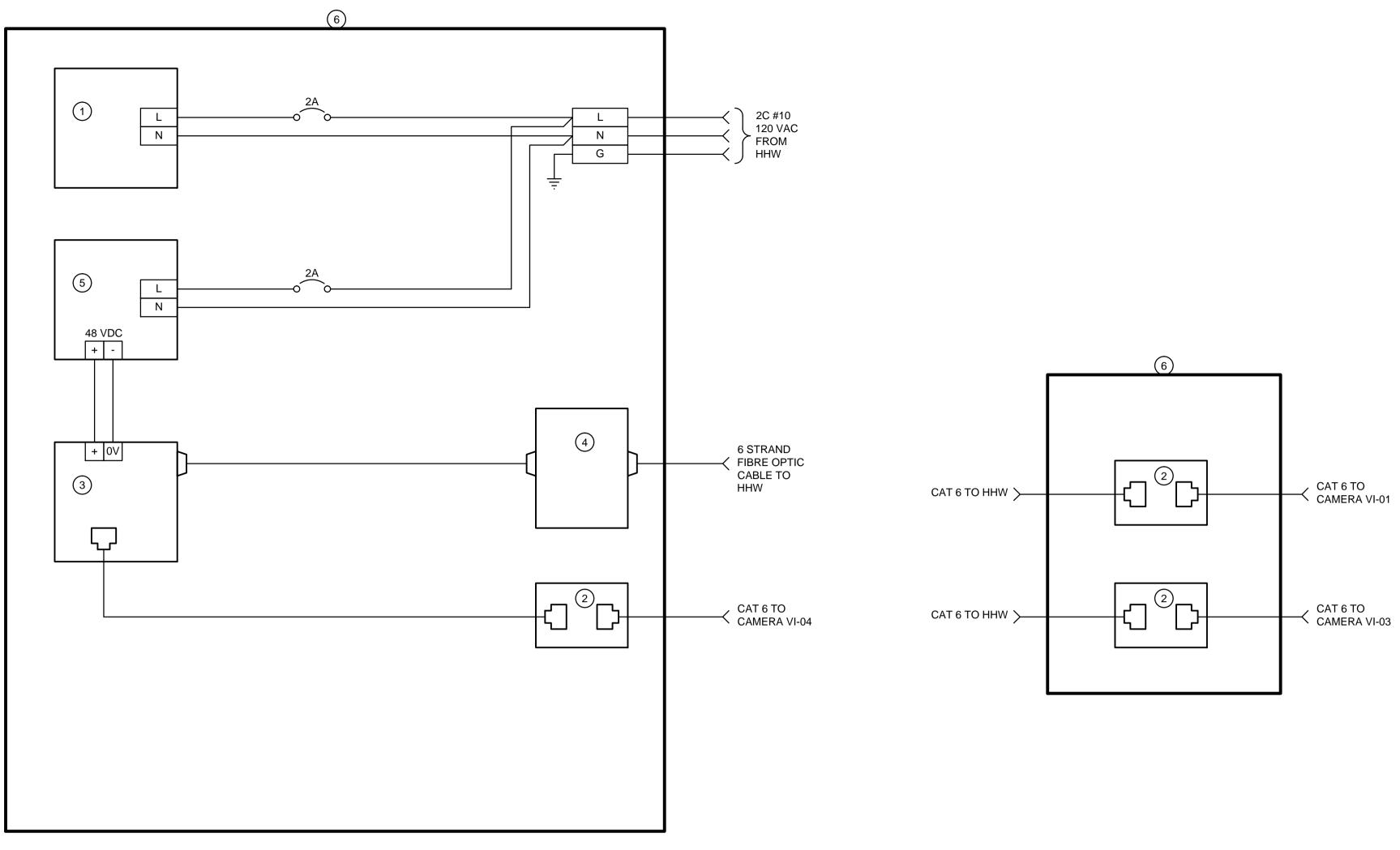
HORN

MOUNT STROBE LIGHT 150mm ABOVE ROOF LINE.

38	j	43
CONSULTANT	DRAWING	NUMBI
	E-6	







JB-09/10 LAYOUT (TYPICAL FOR JB-07/13)

JB-04 LAYOUT (TYPICAL FOR JB-05, JB-06, JB-08)

JB-01 / 03 LAYOUT

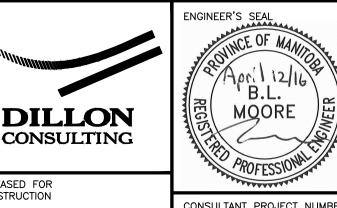
1	TUBULAR ENCLOSURE HEATER 120V, 100W	TEMPCO EHT00030
2	CAT 6 DATA LINE SURGE PROTECTOR	DITEK POE DTK-MRJOP
3	POE MEDIA CONVERTER CAT 6 / 1 FIBRE SC, MULTIMODE	COMNET CNFE1004APOEM
4	FIBRE OPTIL TERMINATION BOX WALL MOUNT	FIBERTRONICS INC FOTB-6-12
5	UPS POWER SUPPLY, 48 VDC	FLEXNET MPS 48-7
6	NEMA 4 ENCLOSURE	HAMMOND MANUFACTURING EJ12126

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

APEGM Certificate of Authorization Dillon Consulting Limited (MB)

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				CHECKED BY	BLM	
				APPROVED BY	ARR	C
2	ISSUED FOR CONSTRUCTION	16/04/12	NR	HOR. SCALE	AS NOTED	RELEASEI CONSTRU
1	ISSUED FOR TENDER	16/03/04	ARR	VERTICAL		
NO.	REVISIONS	DATE	BY	DATE		DATE



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, or	WATER	AND	WASTE	DEPARTMEN
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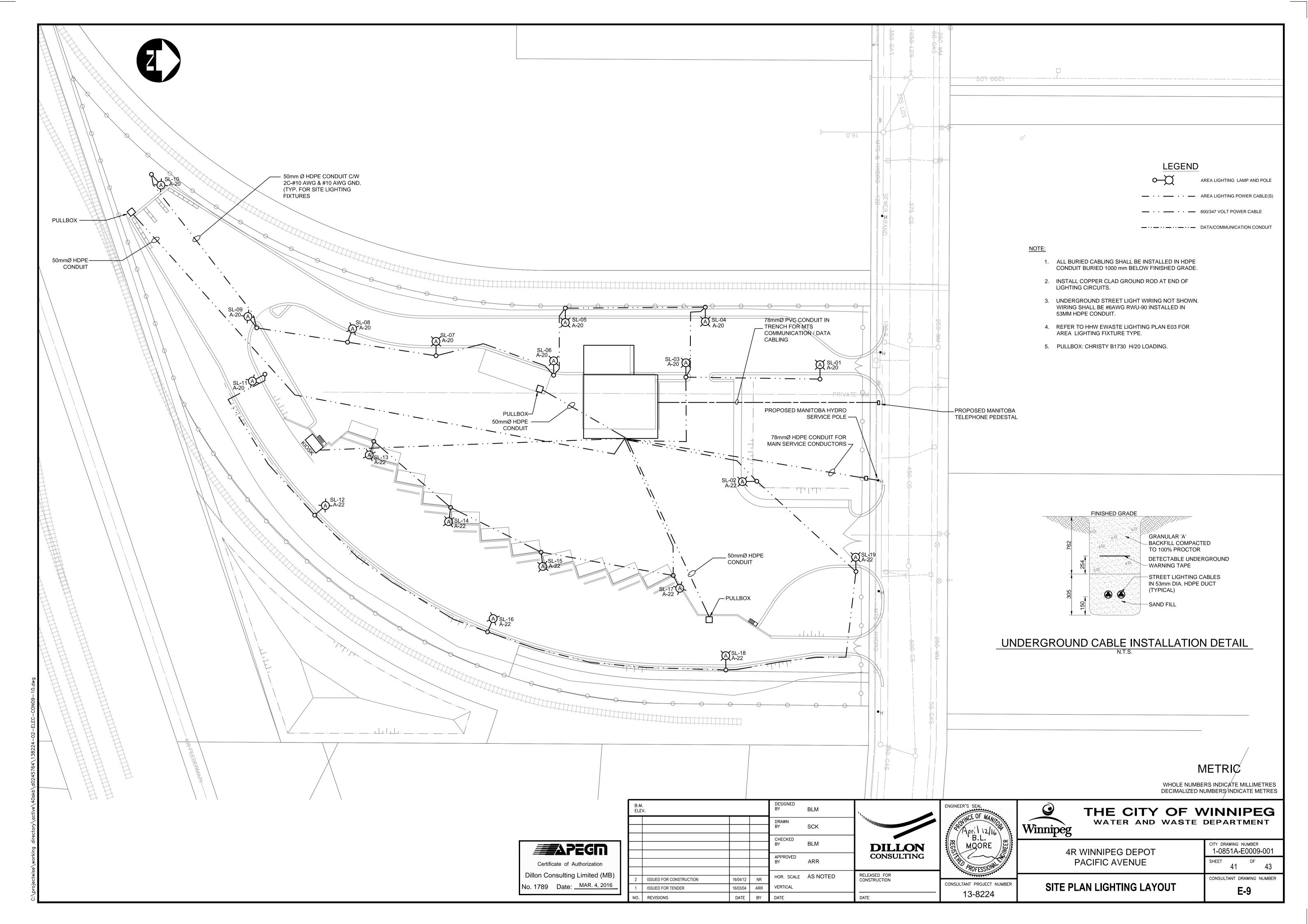
city drawing number 1-0851A-E0008-001 WINNIPEG DEPOT ACIFIC AVENUE SECURITY SYSTEM CONSULTANT DRAWING NUMBER

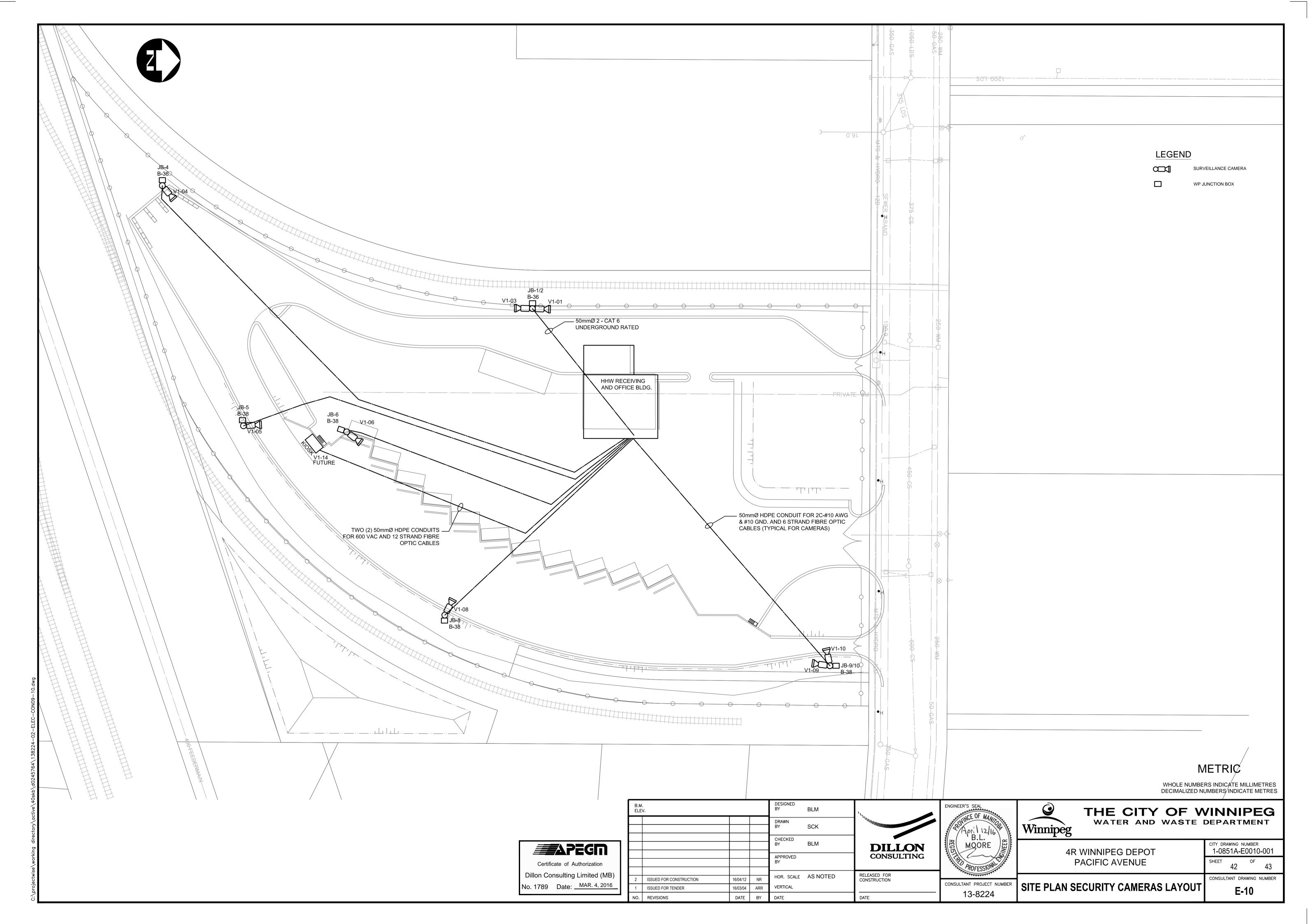
No. 1789 Date: MAR. 4, 2016

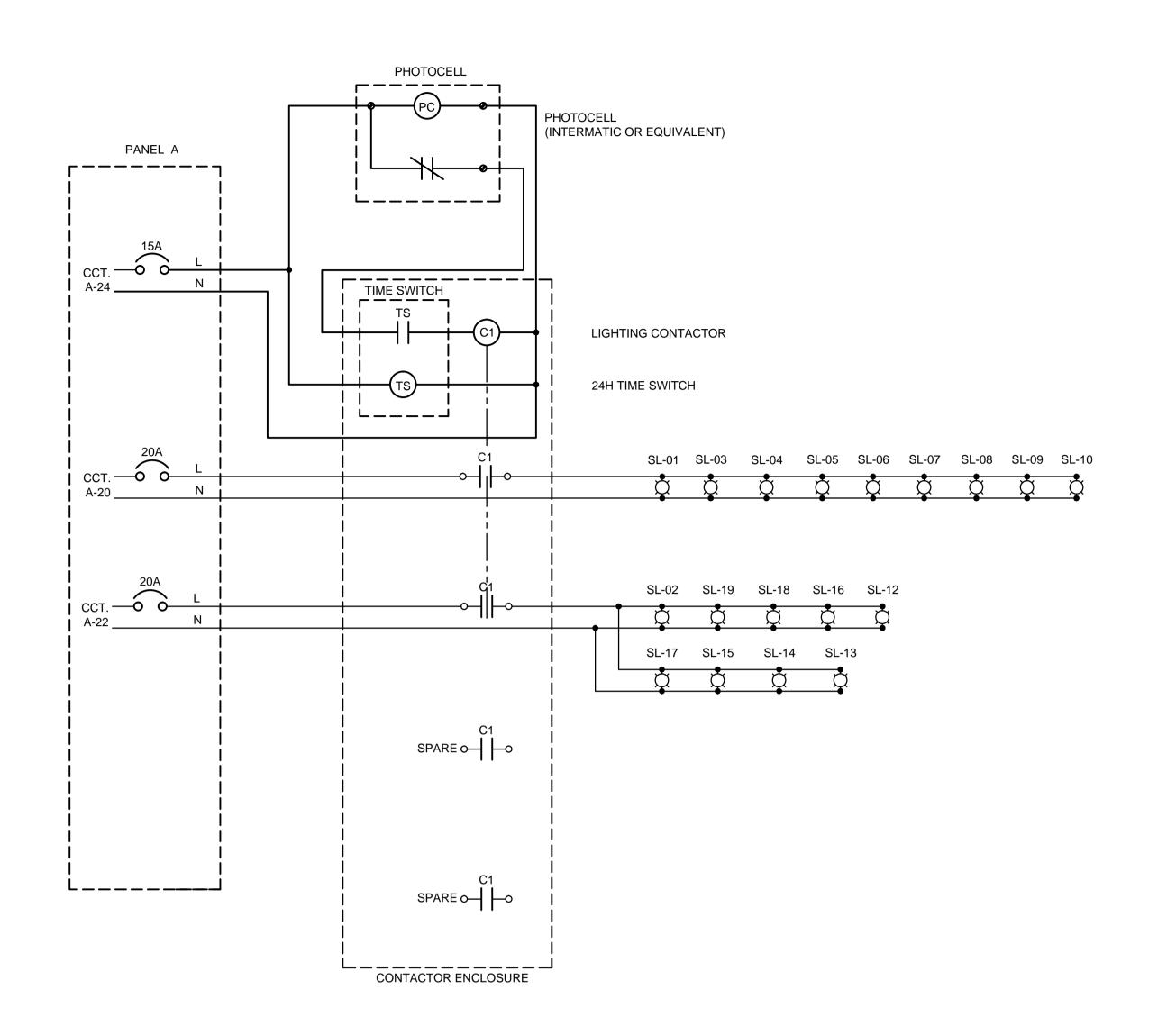
CONSULTANT PROJECT NUMBER 13-8224

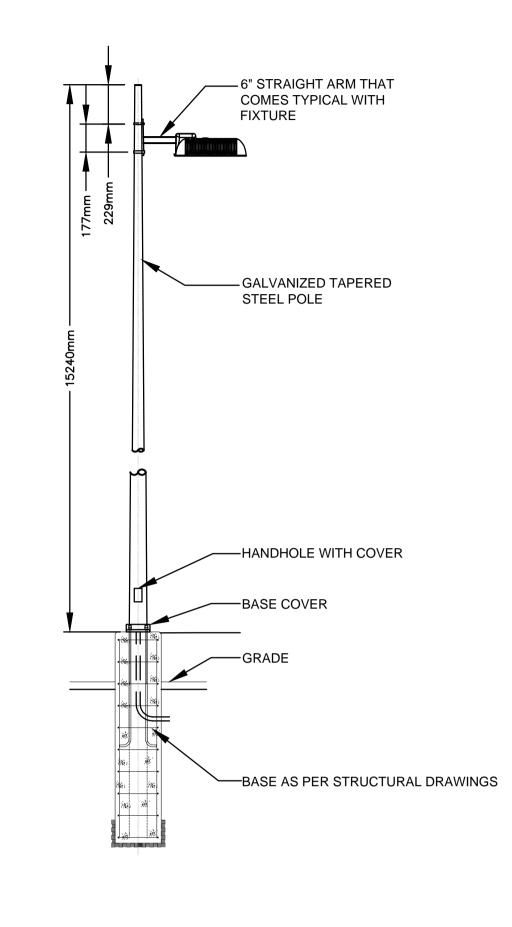
CAMERA DETAILS

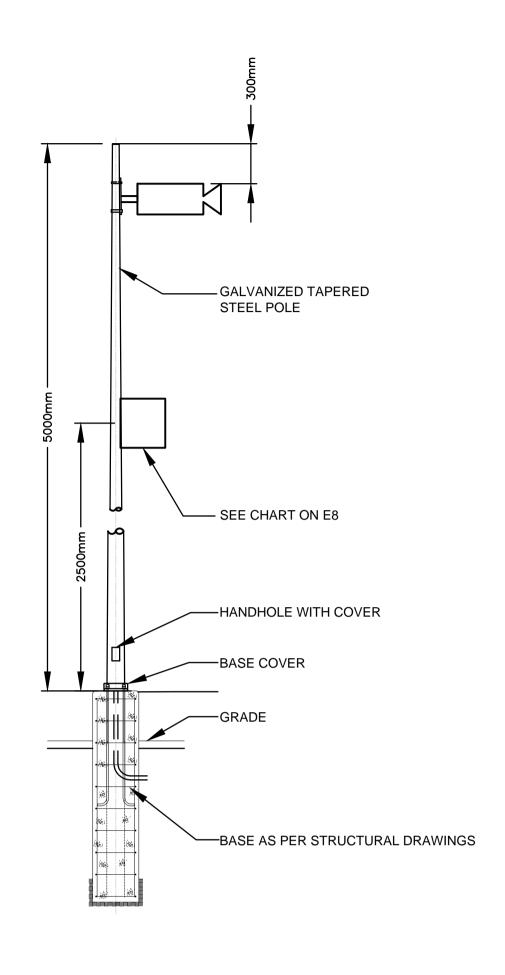
E-8











LIGHTING DISTRIBUTION SCHEMATIC
SCALE: N.T.S.

TYPICAL SITE LIGHTING POLE MOUNTING DETAIL
SCALE: N.T.S.

TYPICAL SECURITY CAMERA POLE MOUNTING DETAIL
SCALE: N.T.S.

METRIC

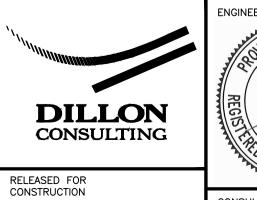
WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

Certificate of Authorization

Dillon Consulting Limited (MB)

No. 1789 Date: MAR. 4, 2016

B.M. ELE	DESIGNED BY			
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2	ISSUED FOR CONSTRUCTION	16/04/12	NR	HOR. SCALE
1	ISSUED FOR TENDER	16/03/04	ARR	VERTICAL
NO.	REVISIONS	DATE	BY	DATE



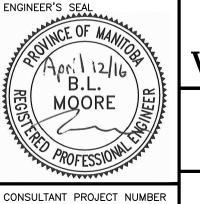
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AS NOTED

DATE



13-8224

Winnipeg

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

4R WINNIPEG DEPOT
PACIFIC AVENUE

1-0851A-E0011-001

SHEET 43 0F 43

CONSULTANT DRAWING NUMBER
1-0851A-E0011-001

SITE - ELECTRICAL DETAILS

E-11

Appendix B

Record of Title



MANITOBA

TITLE NO: 1420176/1

PAGE:

STATUS OF TITLE

STATUS OF TITLE.....

ACCEPTED WINNIPEG

PRODUCED FOR.. ADDRESS..... CITY OF WINNIPEG (LAND & DEV.)

ORIGINATING OFFICE... REGISTERING OFFICE...

WINNIPEG

2ND FLOOR 65 GARRY ST.

REGISTRATION DATE.... COMPLETION DATE.....

1996/01/29 1996/02/09

WINNIPEG MB R3C 4K4 97

LTO BOX NO.... CLIENT FILE...

WW:STACY COUITIOYER

PRODUCED BY...

M.DERKSEN

LEGAL DESCRIPTION:

THE CITY OF WINNIPEG

IS REGISTERED OWNER SUBJECT TO SUCH ENTRIES RECORDED HEREON, IN THE FOLLOWING DESCRIBED LAND:

PARCELS A, B, C, D, E, L, M, N, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD AND EE PLAN 27411 WLTO IN NW 1/4 7-11-3 EPM AND OTM LOTS 5 AND 6 PARISH OF ST JOHN

ACTIVE TITLE CHARGE(S):

1471686/1 **ACCEPTED** CAVEAT

REG'D: 1991/10/11

DESCRIPTION:

EASEMENT

BURLINGTON NORTHERN (MANITOBA) LIMITED

FROM/BY: T0:

AGENT: BARRE HALL

AFF: PCLS C & X SERVIENT

1471687/1 ACCEPTED CAVEAT

REG'D: 1991/10/11

DESCRIPTION:

CONSIDERATION:

CONSIDERATION:

EASEMENT

FROM/BY: T0:

BURLINGTON NORTHERN (MANITOBA) LIMITED AGENT: BARRE W. HALL

NOTES:

NOTES:

AFF: PCLS N & L SERVIENT

1471688/1

ACCEPTED

CAVEAT

REG'D: 1991/10/11

DESCRIPTION: FROM/BY:

EASEMENT

BURLINGTON NORTHERN (MANITOBA) LIMITED

T0:

AGENT; BARRE W. HALL

NOTES: AFF: PCLS Q & U SERVIENT

1471689/1

ACCEPTED

CONSIDERATION:

CAVEAT

REG'D: 1991/10/11

DESCRIPTION: FROM/BY:

EASEMENT

BURLINGTON NORTHERN (MANITOBA) LIMITED

T0:

AGENT; BARRE W. HALL

NOTES: AFF: PCL S SERVIENT

1471690/1

ACCEPTED

CONSIDERATION:

CAVEAT

REG'D: 1991/10/11

DESCRIPTION:

EASEMENT

BURLINGTON NORTHERN (MANITOBA) LIMITED FROM/BY:

T0: CONSIDERATION: AGENT; BARRE W. HALL

NOTES:

AFF: PCL V SERVIENT

CERTIFIED TRUE EXTRACT PRODUCED FROM THE LAND TITLES DATA STORAGE SYSTEM ON 2013/12/16 OF TITLE NUMBER 1420176/1

***** STATUS OF TITLE 1420176/1 CONTINUED ON NEXT PAGE *********

MANITOBA

TITLE NO:

1420176/1

STATUS OF TITLE

PAGE:

2

STATUS OF TITLE..... **ACCEPTED**

ORIGINATING OFFICE...
REGISTERING OFFICE... WINNIPEG WINNIPEG

REGISTRATION DATE.... 1996/01/29 COMPLETION DATE..... 1996/02/09

PRODUCED FOR.. ADDRESS..... CITY OF WINNIPEG (LAND & DEV.)

2ND FLOOR

65 GARRY ST. WINNIPEG MB R3C 4K4

LTO BOX NO.... 97

CLIENT FILE... WW:STACY COUITIOYER

PRODUCED BY... M.DERKSEN

ACTIVE TITLE CHARGE(S):

1471691/1 ACCEPTED

DESCRIPTION: FROM/BY:

T0: **CONSIDERATION:** **CAVEAT**

EASEMENT

BURLINGTON NORTHERN (MANITOBA) LIMITED

AGENT; BARRE W. HALL

NOTES:

AFF: PCLS DD &EE SERVIENT

REG'D: 1991/10/11

REG'D: 1991/10/11

REG'D: 1991/12/05

REG'D: 1992/05/25

1471693/1 ACCEPTED

DESCRIPTION: FROM/BY:

TO: **CONSIDERATION:** CAVEAT

EASEMENT

BURLINGTON NORTHERN (MANITOBA) LIMITED

AGENT; BARRE W. HALL

NOTES: AFF: PCL W WTHN LMTS 27412

1491391/1 **ACCEPTED**

DESCRIPTION:

FROM/BY:

TO:

EASEMENT AGREEMENT

BURLINGTON NORTHERN (MANITOBA) LIMITED

BARRE W. HALL AS AGENT

CONSIDERATION:

CAVEAT

NOTES: SER-PCLS E,M,T,W,Z,AA

1544696/1 **ACCEPTED**

DESCRIPTION: FROM/BY:

T0:

CONSIDERATION:

MISCELLANEOUS

EASEMENT DECLARATION THE CITY OF WINNIPEG

NOTES:

AFF: PCL A&B WTN LTS 23164

ADDRESS(ES) FOR SERVICE: **EFFECT** NAME AND ADDRESS

WINNIPEG MB

POSTAL CODE

ACTIVE

CITY OF WPG. (LAW 510 MAIN ST.

510 MAIN STREET

R3B 1B9

ORIGINATING INSTRUMENT(S):

REGISTRATION NUMBER TYPE

REG. DATE

CONSIDERATION

1420176/1

SWORN VALUE

1988793/1

1996/01/29

\$0.00

\$0.00

PRESENTED BY:

TREQ

STORAGE SYSTEM ON 2013/12/16 OF TITLE NUMBER

CITY OF WINNIPEG (LAW) THE CITY OF WINNIPEG

FROM: TO:

CERTIFIED TRUE EXTRACT PRODUCED FROM THE LAND TITLES DATA

***** STATUS OF TITLE

1420176/1

CONTINUED ON NEXT PAGE *********

MANITOBA

STATUS OF TITLE

TITLE NO:

1420176/1

PAGE: 3

STATUS OF TITLE.....
ORIGINATING OFFICE...
REGISTERING OFFICE...

REGISTRATION DATE....

COMPLETION DATE.....

ACCEPTED WINNIPEG WINNIPEG 1996/01/29

1996/02/09

PRODUCED FOR.. ADDRESS.....

LTO BOX NO....

PRODUCED BY...

CITY OF WINNIPEG (LAND & DEV.)

2ND FLOOR

65 GARRY ST. WINNIPEG MB R3C 4K4

97

WW STACY COUITIOYER

M.DERKSEN

FROM TITLE NUMBER(S):

1222977/1 BAL

LAND INDEX:

BLOCK LOT

SURVEY PLAN

A NOTE:	27411
B NOTE:	27411
С	2/411
NOTE:	27411
NOTE: E	27411
NOTE:	27411
NOTE:	27411
NOTE:	
N Note:	27411
Q NOTE:	27411
R NOTE:	27411
S	27411
NOTE: T	27411
NOTE: U	27411
NOTE:	27411
NOTE:	
W Note:	27411
X NOTE:	27411
NOTE:	27411
Z	27411
NOTE: AA	27411
NOTE: BB	27411
NOTE: CC	27411
NOTE:	_, , , , ,

CERTIFIED TRUE EXTRACT PRODUCED FROM THE LAND TITLES DATA STORAGE SYSTEM ON 2013/12/16 OF TITLE NUMBER 1420176/1

MANITOBA

TITLE NO:

1420176/1

STATUS OF TITLE

STATUS OF TITLE.....
ORIGINATING OFFICE... **ACCEPTED**

1996/01/29

1996/02/09

WINNIPEG

WINNIPEG

CITY OF WINNIPEG (LAND & DEV.)

PAGE:

PRODUCED FOR.. ADDRESS..... 2ND FLOOR

65 GARRY ST.

WINNIPEG MB R3C 4K4

LTO BOX NO.... 97 WW:STACY COUITIOYER

CLIENT FILE...
PRODUCED BY... M.DERKSEN

LAND INDEX:

BLOCK LOT

REGISTERING OFFICE...

REGISTRATION DATE....

COMPLETION DATE.....

SURVEY PLAN

DD

27411

NOTE:

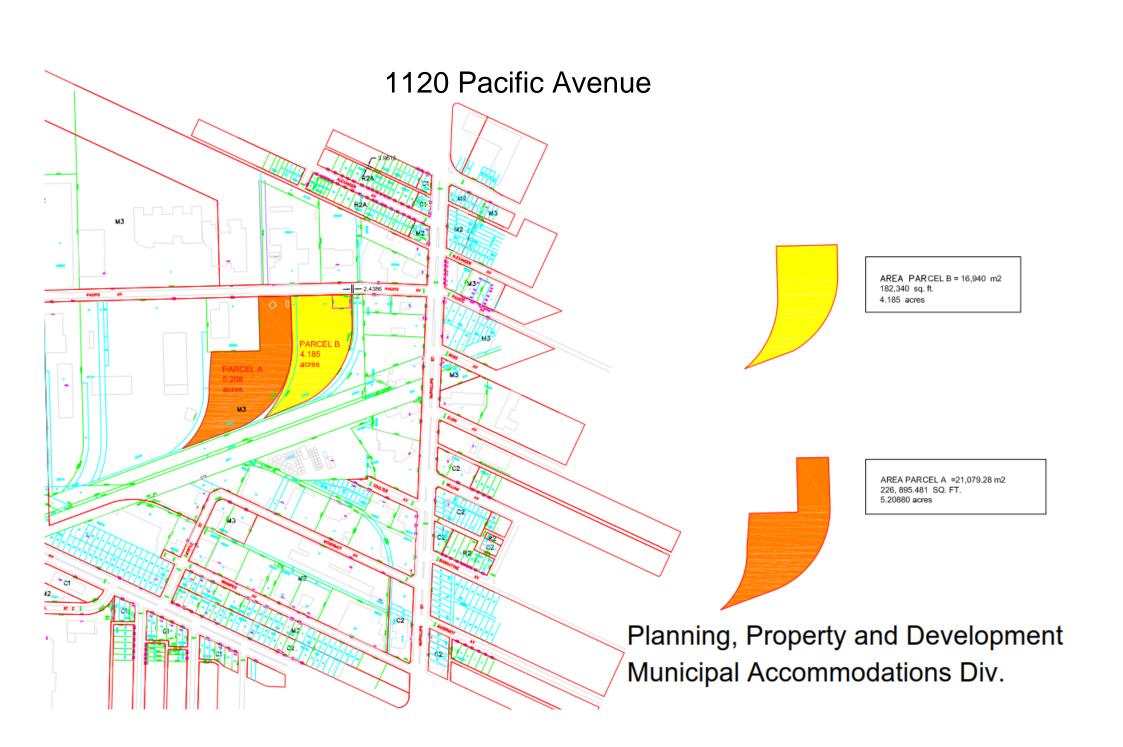
EE NOTE:

27411

ACCEPTED THIS 29TH DAY OF JANUARY, 1996 BY J.SCOTT FOR THE DISTRICT REGISTRAR OF THE LAND TITLES DISTRICT OF WINNIPEG.

CERTIFIED TRUE EXTRACT PRODUCED FROM THE LAND TITLES DATA STORAGE SYSTEM ON 2013/12/16 OF TITLE NUMBER 1420176/1.

****** END OF STATUS OF TITLE ****** 1420176/1



STATUS OF TITLE

The Property Registry

Title Number

1420176/1

Title Status

Accepted

Client File

LDIAZ



REGISTERED OWNERS, TENANCY AND LAND DESCRIPTION

THE CITY OF WINNIPEG

IS REGISTERED OWNER SUBJECT TO SUCH ENTRIES RECORDED HEREON, IN THE FOLLOWING DESCRIBED LAND:

PARCELS A, B, C, D, E, L, M, N, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD AND EE PLAN 27411 WLTO IN NW 1/4 7-11-3 EPM AND OTM LOTS 5 AND 6 PARISH OF ST JOHN

The land in this title is, unless the contrary is expressly declared, deemed to be subject to the reservations and restrictions set out in section 58 of The Real Property Act.

2. **ACTIVE INSTRUMENTS**

Instrument Type:

Caveat

Registration Number:

1471686/1

Instrument Status:

Accepted

Registration Date:

1991-10-11

From/By:

BURLINGTON NORTHERN (MANITOBA) LIMITED

To:

AGENT; BARRE HALL

Amount:

Notes:

AFF: PCLS C & X SERVIENT

Description:

EASEMENT

Instrument Type:

Caveat

Registration Number:

1471687/1

Instrument Status:

Accepted

Registration Date:

1991-10-11

From/By:

BURLINGTON NORTHERN (MANITOBA) LIMITED

To:

AGENT; BARRE W. HALL

Amount:

Notes:

AFF: PCLS N & L SERVIENT

Description:

EASEMENT

Instrument Type:

Caveat

Registration Number:

1471688/1

Instrument Status:

Accepted

Registration Date:

1991-10-11

From/By:

BURLINGTON NORTHERN (MANITOBA) LIMITED

To:

AGENT; BARRE W. HALL

Amount:

Notes:

AFF: PCLS Q & U SERVIENT

Description:

EASEMENT

Instrument Type:

Caveat

Registration Number:

1471689/1

Instrument Status:

Accepted

Registration Date:

1991-10-11

From/By:

BURLINGTON NORTHERN (MANITOBA) LIMITED

To:

AGENT; BARRE W. HALL

Amount:

Notes:

AFF: PCL S SERVIENT

Description:

EASEMENT

Instrument Type:

Caveat

Registration Number: Instrument Status:

1471690/1

Accepted

Registration Date:

1991-10-11

From/By:

BURLINGTON NORTHERN (MANITOBA) LIMITED

To:

AGENT; BARRE W. HALL

Amount:

Notes:

AFF: PCL V SERVIENT

Description:

EASEMENT

Instrument Type:

Caveat

Registration Number:

1471691/1

Instrument Status:

Accepted

Registration Date:

1991-10-11

From/By:

BURLINGTON NORTHERN (MANITOBA) LIMITED

To:

AGENT; BARRE W. HALL

Amount:

Notes:

AFF: PCLS DD &EE SERVIENT

Description:

EASEMENT

Instrument Type:

Caveat

Registration Number:

1471693/1

Instrument Status:

Accepted

Registration Date:

1991-10-11

From/By:

BURLINGTON NORTHERN (MANITOBA) LIMITED

AGENT;BARRE W. HALL

Amount:

To:

Notes:

AFF:PCL W WTHN LMTS 27412

Description:

EASEMENT

Instrument Type:

Caveat

Registration Number: Instrument Status:

1491391/1 Accepted

Registration Date:

1991-12-05

From/By:

BURLINGTON NORTHERN (MANITOBA) LIMITED

To:

BARRE W. HALL AS AGENT

Amount:

Notes:

SER-PCLS E,M,T,W,Z,AA

Description:

EASEMENT AGREEMENT

Instrument Type:

Miscellaneous

Registration Number:

1544696/1

Instrument Status:

Accepted

Registration Date:

1992-05-25

From/By:

THE CITY OF WINNIPEG

To:

Amount:

Notes:

AFF:PCL A&B WTN LTS 23164

Description:

EASEMENT DECLARATION

3. ADDRESSES FOR SERVICE

CITY OF WPG. (LAW 510 MAIN ST, 510 MAIN STREET WINNIPEG MB

R3B 1B9

4. TITLE NOTES

No title notes

5. LAND TITLES DISTRICT

Winnipeg

6. DUPLICATE TITLE INFORMATION

Duplicate not produced

7. FROM TITLE NUMBERS

1222977/1

Balance

8. REAL PROPERTY APPLICATION / CROWN GRANT NUMBERS

No real property application or grant information

9. ORIGINATING INSTRUMENTS

Instrument Type:

Request To Issue Title

Registration Number:

1988793/1

Registration Date:

1996-01-29

From/By:

THE CITY OF WINNIPEG

To:

Amount:

10.	LAND INDEX
	Lot A Plan 27411
	Lot B Plan 27411
	Lot C Plan 27411
	Lot D Plan 27411
	Lot E Plan 27411
	Lot L Plan 27411
	Lot M Plan 27411
	Lot N Plan 27411
	Lot Q Plan 27411
	Lot R Plan 27411
	Lot S Plan 27411
	Lot T Plan 27411
	Lot U Plan 27411
	Lot V Plan 27411
	Lot W Plan 27411
	Lot X Plan 27411
	Lot Y Plan 27411
	Lot Z Plan 27411
	Lot AA Plan 27411
	Lot BB Plan 27411
	Lot CC Plan 27411
	Lot DD Plan 27411
	Lot EE Plan 27411

CERTIFIED TRUE EXTRACT PRODUCED FROM THE LAND TITLES DATA STORAGE SYSTEM OF TITLE NUMBER 1420176/1