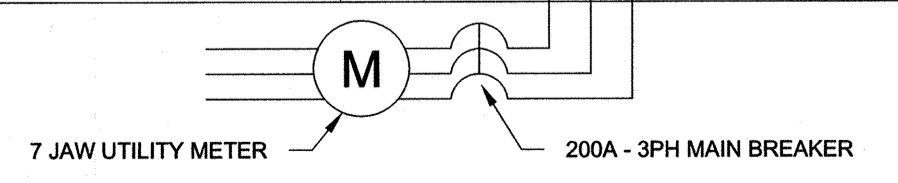


1 ELECTRICAL LAYOUT
C-E01 SCALE: NTS

POWER PEDESTAL 'A'		VOLTAGE MAIN BUS REMARKS		120 / 208V - 3PH-4W 200A C/W GROUNDING AS PER C.E.C.	
DESCRIPTION	BKR	CIRCUIT	BKR	DESCRIPTION	
SOUTH CANOPY LIGHTING	15 1	31	15	POWER DOOR ASSIST	
SOUTH CANOPY LIGHTING	15 2	32	15	POWER DOOR ASSIST	
NORTH CANOPY LIGHTING (#10 WIRE)	15 3	33	15	BUS DETECTION AND WARNING SYSTEM	
NORTH CANOPY LIGHTING (#10 WIRE)	15 4	34	15	BUS DETECTION AND WARNING SYSTEM	
HEAT PUMP AND PUMPS	20 5	35	15	POST LIGHTS	
SPACE	- 6	36	15	POST LIGHTS	
SPACE	- 7	37	15	POST LIGHTS	
SPACE	- 8	38	15	POST LIGHTS	
SPACE	- 9	39	15	POST LIGHTS	
SPACE	- 10	40	15	POST LIGHTS	
SPACE	- 11	41	15	POST LIGHTS	
SPACE	- 12	42	15	SIGN BAND	
SHELTER LIGHTING	15 13	43	15	T.V.'S	
SHELTER LIGHTING	15 14	44	15	T.V.'S	
SHELTER LIGHTING	15 15	45	-	SPACE	
SHELTER LIGHTING	15 16	46	50		
SHELTER LIGHTING	15 17	47			
SHELTER LIGHTING	15 18	48			
PILLAR SIGNAGE (FUTURE)	15 19	49	15		
PILLAR SIGNAGE	15 20	50			
STATION IDENTIFICATION SIGNAGE	15 21	51			
STATION IDENTIFICATION SIGNAGE	15 22	52	15		
STATION IDENTIFICATION SIGNAGE	15 23	53			
STATION IDENTIFICATION SIGNAGE	15 24	54			
EBDD	15 25	55	15	P3 - GLYCOL PUMP MECHANICAL RM	
EBDD	15 26	56	15	P4 - SECONDARY PUMP MECHANICAL RM	
INFO KIOSK	15 27	57	20	3KW UNIT HEATER MECHANICAL RM	
INFO KIOSK	15 28	58			
POWER DOOR ASSIST	15 29	59	15	SPARE	
POWER DOOR ASSIST	15 30	60	15	PANEL RECEPTACLE	



POWER PEDESTAL 'A'

- NOTES:
- POWER PEDESTAL TO BE W.P., LOCKABLE, CUTLER HAMMER OR APPROVED EQUAL.
 - SIGN AND SHELTER LIGHTING CIRCUITS TO BE PHOTOCELL CONTROLLED.
 - COORDINATE METERING WITH UTILITY.
 - PROVIDE HOUZATO SWITCH INSIDE CABINET. CIRCUITS INDICATED TO BE PHOTOCELL CONTROLLED (IN AUTO POSITION).

BUS DETECTION AND WARNING SYSTEM

Provide a complete and operational bus detection and warning system to the complete satisfaction of the Contract Administrator. System is to match existing Rapid Transitway system. Electrical provisions include, but are not necessarily limited to the following:

- Provision of the supply and install of a directional probe system to detect inbound vehicles only. Probes to be located in the roadbed 200m from the entrance to the station. All wiring to be in minimum 1.5" conduit. Provide 18"x24" splice pit at curb to CoW standards, for connection to probe. Wiring to be 14/4 shielded buried cable. One probe will be required west of the station (in east-bound lane) and one will be required east of the station (in west-bound lane). Coordinate conduit routing with Contract Administrator prior to road work or rough-in.
 - signal devices at west end of station are to operate upon activation of west-bound (inbound) vehicles only. Devices at east end of station to operate similarly.
 - audible sound pattern at north and south pedestrian crossings (to match existing).
 - illuminate flashing LED lights mounted on poles (both sides of pedestrian crossing). Lights are to continue flashing for a programmable duration. Initial setting to be 30 seconds from activation. LED signals to match existing, NEMA 4X rated weather-proof and vandal resistant.
 - system is to sound every time a vehicle passes the detector and lights to flash for full duration after each vehicle.
- Manufacturers: to match existing.
- Equipment is to be supplied by local manufacturer's rep, such as IPT Integrated Solutions. Final connections to be performed by manufacturer's representative.
- Provide complete commissioning and training of system to Contract Administrator's satisfaction.

GENERAL ELECTRICAL NOTES

- COORDINATE ROUTING OF ALL UNDERGROUND CONDUIT WITH LANDSCAPE ARCHITECT.
- ALL WIRE TO BE MIN. #12 COPPER RW90 OR AS LOAD REQUIRES.
- REFER TO ELECTRICAL SPECIFICATION.

SPECIFIC ELECTRICAL NOTES

- WIRE AND CONNECT 2 CIRCUITS OF 120V CANOPY LED LIGHTING AS REQUIRED. COORDINATE WITH CANOPY SUPPLIER. LIGHTING IS SUPPLIED AND INSTALLED BY OTHERS
- WIRE AND CONNECT NEW HEATED SHELTER AS REQ'D. COORDINATE POWER ACCESS WITH SUPPLIER. ELECTRICAL INCLUDES GEOTHERMAL HEAT PUMPS, CONTROLS & SHELTER LIGHTING. PROVIDE CONDUIT IN CONCRETE CURB FOR POTENTIAL FUTURE BASEBOARDS
- APPROXIMATE LOCATION OF POWER PEDESTAL 'A' C/W RECEPTACLE. COORDINATE LOCATION WITH UTILITY AND LANDSCAPE ARCHITECT
- EXISTING ORNAMENTAL STREET LIGHT TO BE RELOCATED - REMOVE TOP OF EXIST. PILE AS NECESSARY AND PROVIDE NEW PILE. MAKE GOOD EXISTING WIRE CONNECTION.
- WIRE AND CONNECT NEW UNHEATED SHELTER AS REQUIRED. COORDINATE POWER ACCESS WITH SUPPLIER. ELECTRICAL INCLUDES SHELTER LIGHTING
- LOCATION OF UTILITY TRANSFORMER AND TEMPORARY SERVICE TO THE NORTH (WESTERN EDGE OF GEM PROPERTY, LOT 4)
- WIRE AND CONNECT 2 CIRCUITS OF 120V CANOPY LED LIGHTING AS REQUIRED. COORDINATE WITH CANOPY SUPPLIER. LIGHTING IS SUPPLIED AND INSTALLED BY OTHERS

LUMINAIRE SCHEDULE

TYPE	QTY	DESCRIPTION	MANUFACTURER	LAMPS
1	10	ASYMMETRIC INDIRECT LUMINAIRE MOUNTED ON 15' POLE	REBELLE	1-150W MH
2	8	SYMMETRIC INDIRECT LUMINAIRE MOUNTED ON 15' POLE	REBELLE	1-150W MH

NOTE: REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION.

SYMBOL SCHEDULE

- EXISTING CITY COBRA LIGHT
- EXISTING CITY ORNAMENTAL LIGHT
- NEW POST LIGHT (SEE LUMINAIRE SCHEDULE)
- GROUND FAULT DUPLEX RECEPTACLE. *WP INDICATES WEATHERPROOF
- JUNCTION BOX
- BURIED ELECTRICAL CABLE RUN BETWEEN C/S TE AT WESTERN EDGE OF GEM EQUITIES LOT 4 (CLOSE TO PROPERTY LINE) AND POWER PEDESTAL 'A' - CONNECT TO TEMP POLE SINGLE PHASE SERVICE @ YARDS SITE UNTIL FINAL HYDRO TRANSFORMER IS INSTALLED ON LOT 4.
- TERMINATE CONDUIT FOR PEDESTAL 'A' IN WEST MECHANICAL ROOM FOR LIGHTING AND CIRCUITS FOR SOUTHBOUND STATION. PROVIDE FLUSH MOUNT PULL BOX ACCESS ON NORTH AND SOUTH PLATFORMS

APEGM
Certificate of Authorization
Nova 3 Engineering Ltd.
No. 962 Date: 2014-09-29

NOVA 3 ENGINEERING LTD.
CONSULTING ENGINEERS
201-120 FORT STREET
WINNIPEG, MANITOBA R3C 1C7 FAX: (204) 942-1276
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TEL: (204) 943-6142
JN: 34-129

LOCATION UNDERGROUND STRUCTURES
ORIGINAL SIGNED BY
APPROVED STRUCTURES
MM/DD/YYYY
NOV 11 2014
NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE RELEVANT UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.
DISCLAIMER: THIS DRAWING MUST NOT BE SCALED. VARIATIONS AND MODIFICATIONS TO WORK SHOWN ON THESE DRAWINGS SHALL NOT BE CARRIED OUT WITHOUT WRITTEN PERMISSION OF GEM EQUITIES INC.

NO.	REVISIONS	DATE	BY
5	ISSUED FOR CONSTRUCTION	09/17/14	GZ
4	ISSUED FOR 95% REVIEW	09/10/14	GZ
3	ISSUED FOR 95% REVIEW	07/10/14	GZ
2	ISSUED FOR 90% REVIEW	04/15/14	CJH
1	ISSUED FOR REVIEW	01/03/14	CJH

DESIGNED JT, VT
BY
DRAWN CH
BY
CHECKED JT, VT
BY
APPROVED BY
SCALE NTS
DATE 01/20/2014

CONSULTANT
NOVA 3 ENGINEERING LTD.
CONSULTING ENGINEERS
201-120 FORT STREET TEL: (204) 943-6142
WINNIPEG, MANITOBA FAX: (204) 942-1276
R3C1C7
ARCHITECT
ALLAN COPPINGER, ARCHITECT
218 South Fork Street, Winnipeg MB R2W 2T1, P.O. Box 818 4823
RELEASED FOR CONSTRUCTION
DATE 01/28/2014

OWNERS
THE CITY OF WINNIPEG
TRANSIT DEPARTMENT
Winnipeg
CONSULTANT PROJECT NO.
009 02 2014
CONSULTANT SHEET TITLE
SOUTHWEST RAPID TRANSIT CORRIDOR
JUBILEE STATION
STATION CONSTRUCTION, LANDSCAPING & ASSOCIATED WORKS
CONSULTANT DRAWING NUMBER
C-E01