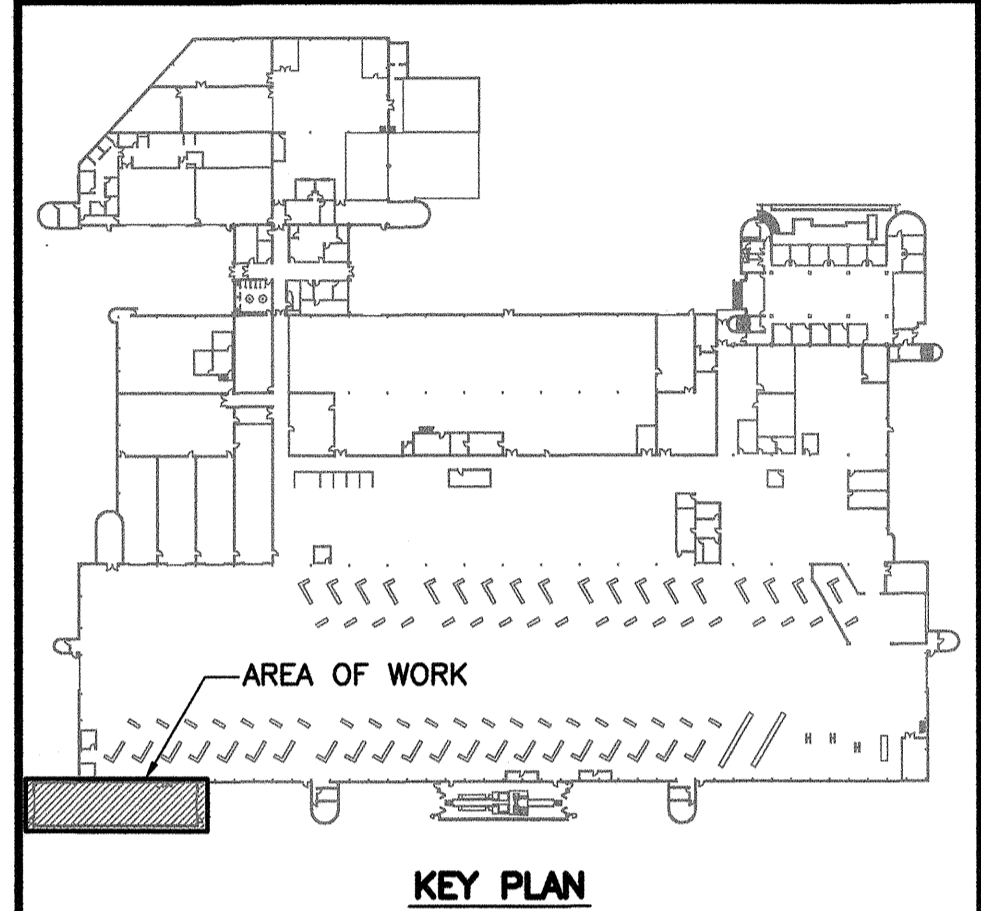
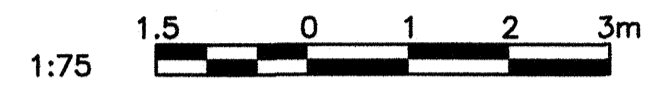


1 FLOOR PLAN
1 : 75

REFERENCE DRAWINGS	
NO.	DESCRIPTION



NO.	DATE	DESCRIPTION	PREPARED	REVIEW	DESIGN	AUTHORIZED
00	14.01.17	ISSUED FOR CONSTRUCTION	HA	HC	HC	

SEAL

PROVINCE OF MANITOBA
H.A. CEA CANAS
Member of the
ASSOCIATION OF PROFESSIONAL ENGINEERS
22882

PERMIT STAMP

APEGM
Certificate of Authorization
TETRA TECH WEI Inc.
No. 5313 Date: April 30, 2014

DESIGNED BY:	PREPARED BY:	REVIEWED BY:
HC	BM/HA	HC
AUTHORIZED BY:	DATE:	SCALE:
<i>[Signature]</i>	13.11.15	AS NOTED

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- NOTES:**
- REFER TO ELECTRICAL KEY PLAN AND SYMBOL LEGEND DWG E0001 FOR ELECTRICAL SYMBOL SCHEDULE AND LETTERS DESIGNATION
 - ELECTRICAL SUBCONTRACTOR TO CONFIRM EXPANDABILITY AND CAPACITY OF EXISTING FIRE ALARM SYSTEM. INCLUDE ALL COSTS FOR PROGRAMMING, EXPANSION AND MODIFICATIONS TO COMPLY WITH DESIGN AND APPLICABLE CODES TO MAKE THE SYSTEM OPERATIONAL.
 - ELECTRICAL SUBCONTRACTOR TO SUPPLY, INSTALL WIRE AND CONNECT NEW FIRE ALARM DEVICES TO EXISTING ZONES. COORDINATE LOCATIONS WITH MECHANICAL SUBCONTRACTOR AND TRADES INVOLVED. NEW FIRE ALARM DEVICES TO MATCH EXISTING IN ALL RESPECTS.
 - MOUNTING HEIGHT OF DEVICES AND SPACING BETWEEN HVAC DIFFUSERS AND FIRE ALARM DEVICES TO BE AS PER CAN/ULC-S524 LATEST EDITION.
 - ALL DEVICES TO HAVE DEDICATED GROUNDING.
 - ELECTRICAL SUBCONTRACTOR TO PROVIDE ALL WIRING AND RELAYS REQUIRED TO INTERLOCK MECHANICAL AND FIRE ALARM SYSTEMS.
 - INCLUDE ALL COSTS FOR FIRE ALARM TESTING, VERIFICATION AND REPLACEMENT OF EXISTING DEVICES NOT PERFORMING WITHIN THE AREA OF RENOVATION.
 - TESTING AND VERIFICATION TO INCLUDE MAIN NOTIFIER FIRE ALARM PANEL (LOCATED AT THE MAIN ENTRANCE), DEVICES, LOOPS AND ZONES AFFECTED BY THIS RENOVATION/ADDITION.
 - ELECTRICAL CONTRACTOR TO PROVIDE WALL AND CEILING MOUNTED FRAME STRUCTURALLY CAPABLE TO ACCOMMODATE TRANSFORMER. CONFIRM SIZE AND WEIGHT PREVIOUS TO INSTALLATION.
 - REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DETAILS.
 - ELECTRICAL CONTRACTOR TO WIRE NEW PANELS AND TELECOM SERVICES USING PORTIONS EXISTING CABLE TRAY (NEW POWER WIRING TO BE RUN IN UNDERSIDE OF CABLE TRAY) AND ADD SECTIONS AS NECESSARY. APPROXIMATE DISTANCE BETWEEN EXISTING PANEL PP-WW AND NEW PANEL PP-WW1 IS 200 FT. CONFIRM WITH PANEL MANUFACTURER HARDWARE AVAILABILITY FOR PANEL PP-WW TO ACCOMMODATE NEW 125A BREAKER FOR NEW PANEL PP-WW1.
 - ALL TELECOM CONDUITS TO BE 27mm MIN UNLESS NOTED OTHERWISE.
 - ELECTRICAL SUBCONTRACTOR SHALL CONTACT THE CONTRACT ADMINISTRATOR FOR A PHYSICAL INSPECTION OF THE CONDUIT SYSTEM PRIOR TO THE PLACEMENT OF CABLING. INSPECTION SHALL BE CONDUCTED AT THE SAME TIME AS A SITE MEETING.
 - ALL TELECOM OUTLET LOCATIONS TO BE CONFIRMED ON SITE AND APPROVED BY THE CITY OF WINNIPEG. ALL PHONE SYSTEMS TO BE DONE BY MTS. THE ELECTRICAL SUBCONTRACTOR TO HIRE MTS, COORDINATE WORK IN ADVANCE TO MEET ALL THE CITY OF WINNIPEG REQUIREMENTS AND CARRY ALL COSTS ASSOCIATED TO A COMPLETE AND OPERATIONAL SYSTEM.
 - THE CITY OF WINNIPEG SHALL SUPPLY, INSTALL AND TERMINATE ALL DATA AND NETWORKING WIRING AND SUPPLY AND INSTALL ALL ACTIVE EQUIPMENT (COMPUTERS, SWITCHES, ROUTER, TELEPHONES, ETC.)
 - ELECTRICAL SUBCONTRACTOR TO INCLUDE 3/4" EMT EMPTY CONDUIT FOR ADDITIONAL SPEAKERS FOR PUBLIC ADDRESS SYSTEM AND RELOCATE ANY EXISTING CONFLICTING SPEAKERS AS PER CITY OF WINNIPEG DESIGNATED LOCATIONS. SPEAKERS TO BE ADDED TO EXISTING 800 WATTS AMPLIFIER. SPEAKERS, WIRING AND CONNECTIONS BY THE CITY OF WINNIPEG. CONFIRM HEAD EQUIPMENT CAPACITY AND ADVISE IF UPGRADE IS REQUIRED BEFORE PRICING THE PROJECT.
 - ELECTRICAL SUBCONTRACTOR TO ADD WHISTLE HORNS FOR WORK SHIFTS AND BREAKS. ELECTRICAL SUBCONTRACTOR TO PROVIDE ADDITIONAL 3/4" EMT EMPTY CONDUIT FOR ADDITIONAL DEVICES AS INDICATED BY THE CITY OF WINNIPEG. THE CITY OF WINNIPEG TO PROVIDE ALL WIRING, TERMINATIONS AND ADDITIONAL DEVICES.
 - EQUIPMENT MAINTENANCE RECEPTACLE (FOR ROOF MOUNTED EQUIPMENT):
PROVIDE AND INSTALL WEATHERPROOF DUPLEX RECEPTACLE CSA CONFIGURATION 5-20R, PROTECTED WITH A GFCI CLASS A CIRCUIT BREAKER 15A-1P. DEDICATED CIRCUIT A9, A11 TO BE WIRED WITH 2-#12 RW90+G CONDUCTORS IN 27mm EMT CONDUIT.
 - RECEPTACLE TO BE LOCATED WITHIN 7.5m OF THE ROOF TOP ELECTRICAL EQUIPMENT AND MINIMUM OF 750mm ABOVE FINISHED ROOF.
 - RECEPTACLE TO BE PROTECTED FROM MECHANICAL DAMAGE.
 - UPDATE PANEL BOARDS DIRECTORY AND AS-BUILT DRAWINGS TO BE INCORPORATED IN O&M MANUALS.
 - DUPLEX TELECOM OUTLET. PROVIDE ALL CABLES, TERMINATIONS AND CONNECTIONS TO MAKE JACKS OPERATIONAL.
 - SUPPLY CEILING MOUNTED TELECOMMUNICATIONS OUTLET FOR OWNERS' SUPPLIED AND INSTALLED ACCESS POINT (FOR WI-FI) CONFIRM EXACT LOCATION WITH CITY OF WINNIPEG IT DEPARTMENT. ELECTRICAL CONTRACTOR TO PROVIDE ALL CONDUIT, WIRING, JACKS, COVERPLATES AND TERMINATIONS TO MAKE SYSTEM OPERATIONAL. COORDINATE ACTIVATION WITH CITY OF WINNIPEG IT DEPARTMENT.
 - INSTALL ISOLATION MODULES AS PER CAN/ULC-S524 LATEST EDITION.

EMERGENCY LIGHTING SCHEDULE					
TYPE	DESIGN	MANUFACTURER	CATALOGUE NO.	VOLTS	REMARKS
EXIT SIGN	E-1	LUMACELL	LER3-500-WH-120	120V	4X RATED EXIT SIGN
EMERGENCY HEADS	-	LUMACELL	MQM-2-LD13	24VDC	MICRO LIGHT SERIES, C/W 24V-4W LED LAMP. CSA CERTIFIED.
BATTERY UNITS	BB1	LUMACELL	RG24S-144-2-LD13	120V 24V	SUPPLY VOLTAGE: 120VAC OUTPUT VOLTAGE: 24VDC OPERATING TIME: 30 MINUTES BATTERY: SEALED, MAINTENANCE FREE. CHARGER: SOLID STATE, MULTI-RATE, VOLTAGE/CURRENT REGULATED, INVERSE TEMP. COMPENSATED, SHORT CIRCUIT PROTECTED, MODULAR CONSTR. SOLID STATE TRANSFER, LOW VOLTAGE DISC. SIGNAL LIGHTS "LED". HEAD: C/W TWO ADJUSTABLE EMERG. LTG. HEADS. MOUNTING: C/W T.L. RECEPTACLE, AND MOUNTING SHELF.

SUB-CONSULTANTS

CLIENT

**CITY OF WINNIPEG
TRANSIT DEPARTMENT**

TETRA TECH

PROJECT NAME

CITY OF WINNIPEG TRANSIT - FORT ROUGE GARAGE BUS MAINTENANCE ADDITION

DRAWING DESCRIPTION

ELECTRICAL
PARTIAL MAIN FLOOR PLAN

DRAWING NO. 132920500-DWG-E0002	REV. 00
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AL (841 & 594)