LUMINAIRE SCHEDULE (all equipment to be MB Hydro Power Smart Approved)

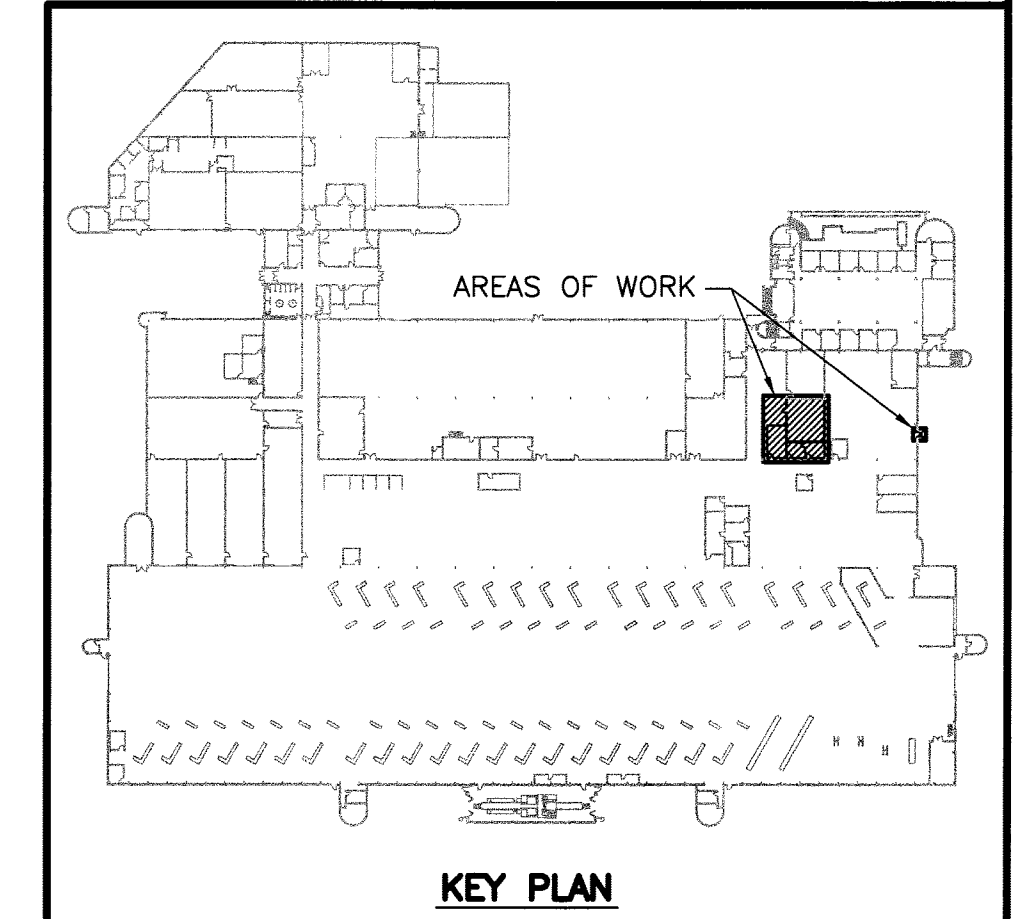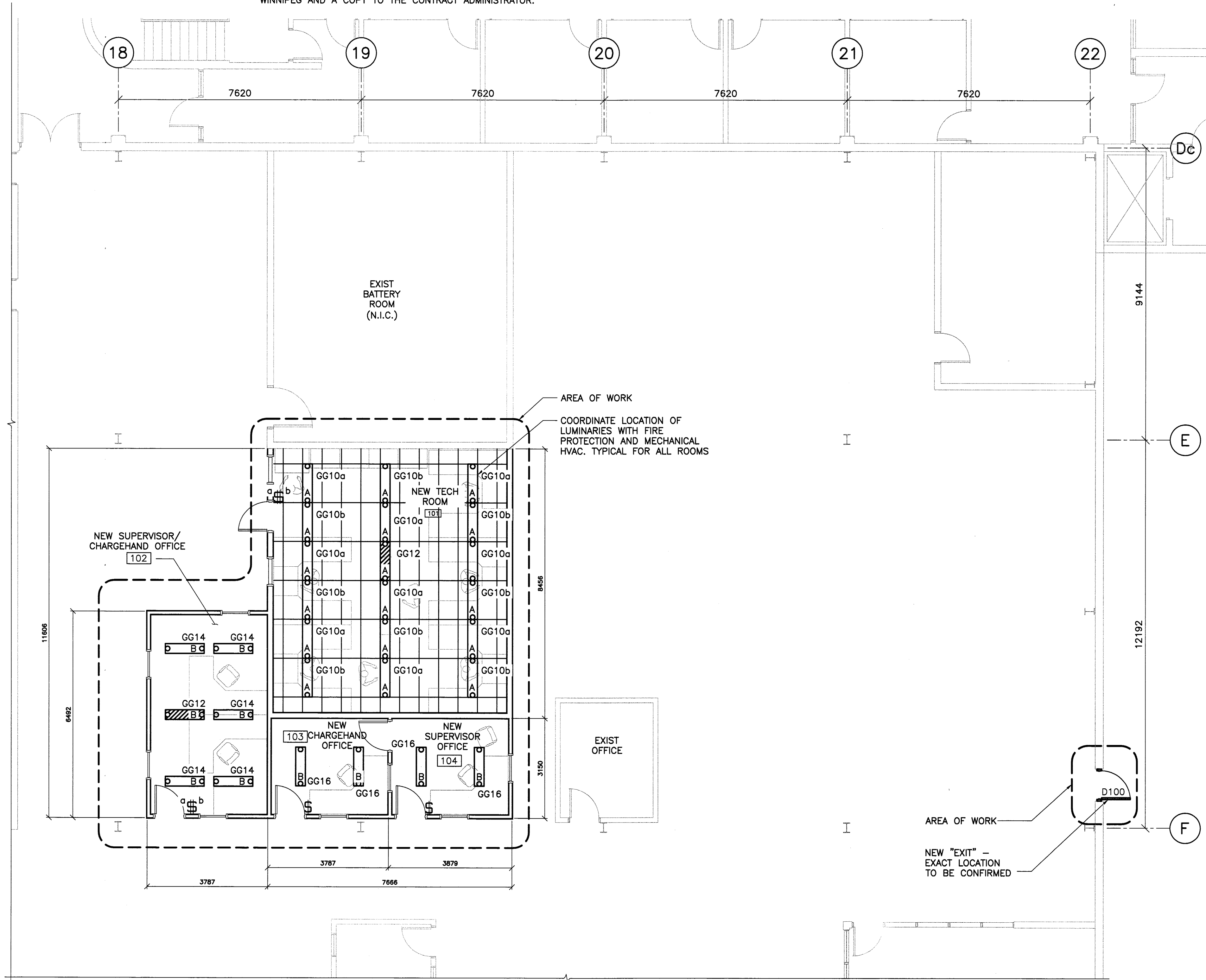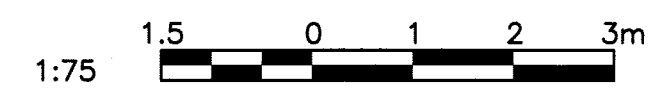| TYPE	MANUFACTURER	MODEL #	MOUNTING	LAMP	VOLTAGE	COMMENTS
A	LITHONIA	SP5–G–2–28T5–A12125–120–LP841–CSA	RECESSED IN T–BAR	2–28WT5, 4100K	120	TWO LEVELS LIGHTING – 1 BALLAST PER LUMINAIRE/PROGRAMMED START AND T–BAR SAFETY CLIPS 95% BALLAST FACTOR
B	LITHONIA	LB 2 28T5 120 GEB10PS–CSA	SURFACE DRYWALL	2–28WT5, 3500K, 84 CRI	120	TWO LEVELS LIGHTING ROOM 102– 2 BALLAST PER LUMINAIRE

NOTES:

1. ALL FLUORESCENT LAMPS SHALL BE C/W FULLY ELECTRONIC BALLASTS.

2. ELECTRICAL SUBCONTRACTOR SHALL SUBMIT "POWER SMART PROGRAM" APPLICATION TO MANITOBA HYDRO ON BEHALF OF THE CITY OF WINNIPEG. ALL HYDRO REBATES SHALL BE ADDRESSED AND RETURNED TO THE CITY OF WINNIPEG AND A COPY TO THE CONTRACT ADMINISTRATOR.

NOTES:

1. REFER TO ELECTRICAL KEY PLAN AND SYMBOL LEGEND DWG E0001 FOR ELECTRICAL SYMBOL SCHEDULE AND LETTERS DESIGNATION.

2. ALL MATERIAL SHALL BE NEW AND BE CSA APPROVED OR ULC LISTED

3. ALL WIRING SHALL BE MINIMUM #12 AWG COPPER

4. ALL INTERIOR WIRING IN CEILING SPACE ABOVE T–BAR CEILING IN DRY AREAS SHALL BE AC90 (ARMOURED) CABLE OR RW90 WIRE INSTALLED IN EMT CONDUIT. ALL EMT CONDUIT SHALL INCLUDE A DEDICATED INSULATED GREEN GROUND WIRE.

5. ALL WIRING AND CONDUITS SHALL BE CONCEALED UNLESS NOTED OTHERWISE.

6. ELECTRICAL SUBCONTRACTOR IS RESPONSIBLE FOR SEALING ALL PENETRATIONS THROUGH FIRE RATED WALLS AND ASSEMBLIES WITH RATED FIRE STOP RATED EQUAL TO THAT OF THE ADJACENT MATERIALS. ALL FIRE STOP MATERIALS AND INSTALLATION SHALL CONFORM TO UL 1479 AND ASTM E–814–10

7. PROVIDE SHOP DRAWINGS INCLUDING BALLAST CUT SHEETS.

8. ALL CIRCUITING IS FOR GROUPING PURPOSES ONLY. ELECTRICAL CONTRACTOR TO ENSURE PANELS ARE PROPERLY BALANCED.

9. ALL CIRCUITS SHOULD HAVE A SEPARATE GROUND.

10. ALL "NIGHT LIGHT" LUMINAIRES ARE ENERGIZED 24 HOURS WITHOUT LIGHTING CONTROL.

11. PROVIDE A MINIMUM OF 100 HOURS OF BURN–OUT TIME FOR ALL LUMINAIRES.

12. PROVIDE 1000mm EXTRA LENGTH OF COILED ELECTRICAL CONDUCTOR PER EACH LUMINAIRE IN ALL AREAS ABOVE T–BAR CEILING. ALL LUMINAIRE WIRING TO BE DONE IN CONDUIT WITH THE EXCEPTION OF DROP FLEXIBLE CONDUIT FROM JUNCTION BOX TO LUMINAIRE.

13. ALL LUMINAIRES BALLAST OR LAMPS SHALL BE APPROVED UNDER THE MANITOBA HYDRO POWER SMART PROGRAM AND APPROVED BY LUMINAIRES MANUFACTURER FOR WARRANTY PURPOSES. ELECTRICAL CONTRACTOR TO PROVIDE BALLAST AND LAMP CUT SHEETS WITH SHOP DRAWING OF EACH LUMINAIRE FOR APPROVAL.

14. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DETAILS.

EXIST BATTERY ROOM (N.I.C.)

AREA OF WORK

COORDINATE LOCATION OF LUMINARIES WITH FIRE PROTECTION AND MECHANICAL HVAC. TYPICAL FOR ALL ROOMS

NEW TECH ROOM 101

NEW SUPERVISOR/ CHARGEHAND OFFICE 102

EXIST OFFICE

NEW CHARGEHAND OFFICE 103

NEW SUPERVISOR OFFICE 104

AREA OF WORK

NEW "EXIT" – EXACT LOCATION TO BE CONFIRMED

1 PARTIAL MAIN FLOOR PLAN
1:75

KEY PLAN

AREAS OF WORK

1.5 0 1 2 3m
1:75

REFERENCE DRAWINGS

NO.	DESCRIPTION

REVISIONS/ISSUE

NO.	DATE	DESCRIPTION	PREPARED	REVIEW	DESIGN	AUTHORIZE
00	13.06.27	ISSUED FOR TENDER	KS	HC	KS	AP

DRAFTING   ENGINEERING

SEAL

PROVINCE OF MANITOBA
JUNE 27, 2013
H.A.
CBA CANAS
REGISTERED PROFESSIONAL ENGINEER
Member 22882

ORIGINAL SIGNED 13.06.27

PERMIT STAMP

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

DESIGNED BY:	PREPARED BY:	REVIEWED BY:
HC	KS	HC

AUTHORIZED BY:	DATE:	SCALE:
	2013.05.24	AS NOTED

SUB-CONSULTANT(S):

CLIENT:
CITY OF WINNIPEG TRANSIT DEPARTMENT

Tt TETRA TECH

PROJECT NAME:
ELECTRICAL SECTION RENOVATION AT THE WINNIPEG TRANSIT GARAGE, 421 OSBORNE STREET

DRAWING DESCRIPTION:
ELECTRICAL PARTIAL MAIN FLOOR PLAN LIGHTING DETAILS

DRAWING NO:	REV:
1329720200-DWG-E0004	00

3D MODEL REF No: