

ENCELIUM OR EQUIVALENT LIGHTING CONTROL SYSTEM		
QTY.	PART NUMBER	ITEM DESCRIPTION
3	45569	WIRELESS MANAGER - WHITE (ARCHITECT TO CONFIRM COLOR)
168	45583	WIRELESS CONTROL MODULE
1	45274	SYSTEM SUPPORTS UNIT (SSU)
1	1RV042	ROUTER - 4 PORT 10/100 VPN - DUEL WAN
2	45311	ETHERNET SWITCH, RACKMOUNT, 16 PORT
1	45347	POWER BAR, RACK MOUNT
3	45574	WIRELESS 3 SCENE CONTROL WALL STATION - WHITE (ARCHITECT TO CONFIRM COLOR)
1	45331	NETWORK CABLE (CAT. 5 - 1000 FT. BOX)
3	1TPE.113Gi	POWER INJECTOR
1	ENG-901	ENGINEERING SERVICES
1	ENG-902	SYSTEM STARTUP


LIGHTING SCHEDULE						
TAG	DESCRIPTION	MANUFACTURER AND PART NO.	LAMPS	MOUNTING	VOLTS	NOTES
A	EXISTING INDUSTRIAL SHADE T-8 FLUORESCENT	EXISTING	2 - 32 W 1220MM T-8	SURFACE	120	REMOVE AND DISPOSE OF EXISTING FIXTURE AND LAMPS
B	EXISTING SEALED RECESSED T-12 FLUORESCENT FIXTURES	EXISTING	2 - 40W 1220MM T-12	RECESSED	120	REMOVE AND DISPOSE OF EXISTING FIXTURE AND LAMPS
C	EXISTING SEALED INCANDESCENT FIXTURES	EXISTING	1 - 100W MEDIUM BASE INC	SURFACE	120	REMOVE AND DISPOSE OF EXISTING FIXTURE AND LAMPS
D	EXISTING INCANDESCENT FIXTURES	EXISTING FIXTURE RETROFITTED WITH 14.5W A19 MED.BASE LED	1-14W LED 5000K A19 MEDIUM BASE	SURFACE	120	REMOVE AND DISPOSE OF EXISTING LAMPS, CLEAN REFLECTOR AND LENS
E	EXISTING 1220MM FLUORESCENT FIXTURES	EXISTING FIXTURE RETROFITTED WITH 16.5W T-8 PHILLIPS MASTER LEOTUBE LAMP AND ELECTRONIC BALLAST OR EQUIVALENT	2 - 16.5W 1220MM T-8 LED 5000K	SURFACE	120	REMOVE AND DISPOSE OF EXISTING BALLAST AND LAMPS, CLEAN REFLECTORS AND BAFFLES. ENSURE FIXTURES ARE CERTIFIED AFTER RETROFIT.
F	EXISTING HID FIXTURE	EXISTING	1 - 150W HPS	SURFACE	120	REMOVE AND DISPOSE OF EXISTING FIXTURE, BALLAST AND LAMPS
G	EXISTING SEALED RECESSED FLUORESCENT FIXTURES RETROFITTED TO T-8	ILP MODEL NO. B0B-36WLED-4BD-UNIV-PW OR EQUIVALENT	4-9W LED STRIPS 5000K	RECESSED	120	REMOVE AND DISPOSEOF EXISTING BALLAST AND LAMPS, CLEAN REFLECTOR AND LENS. CONTRACTOR TO SUPPLY AND INSTALL ENCELUM WIRELESS CONTROL MODULE CAT. NO. 45583 OR EQUIVALENT FOR EACH FIXTURE TYPE G IN DAIRY ROOM 131.
H	HIGHBAY LED FIXTURES	VISONERING MODEL NO. LHBV48-LED850K-120LUNV OR EQUIVALENT	108W LED 5000K	SURFACE	120	REUSE EXISTING WIRING. CONFIRM FIXTURE WIRING OPTIONS ON SITE PRIOR TO ORDERING
H-1	HIGHBAY LED FIXTURES	VISONERING MODEL NO. LHBV48-LED850K-240LUNV OR EQUIVALENT	108W LED 5000K	SURFACE	120	REUSE EXISTING WIRING. CONFIRM FIXTURE WIRING OPTIONS ON SITE PRIOR TO ORDERING
I	EXISTING EXTERIOR INCANDESCENT FIXTURES	EXISTING FIXTURE RETROFITTED WITH 14.5W MED.BASE LED	1-14W LED 3000K	SURFACE	120	REMOVE AND DISPOSE OF EXISTING LAMPS, CLEAN REFLECTOR AND LENS
J	EXISTING EXTERIOR INCANDESCENT DOUBLE FLOOD LAMPS	EXISTING FIXTURE RETROFITTED WITH PHILLIPS 13W E27 MED BASE LED REPLACEMENT OR EQUIVALENT	1-13W LED 3000K MEDIUM BASE	SURFACE	120	REMOVE AND DISPOSE OF EXISTING LAMPS.
K	SEALED LED FIXTURES	VISONERING MODEL NO. LSV448-LED850K-42LUNV OR EQUIVALENT	36W LED 5000K	SURFACE	120	COORDINATE MOUNTING WITH STRUCTURE. CONFIRM MOUNTING EQUIPMENT ONSITE PRIOR TO ORDERING. CONTRACTOR TO SUPPLY AND INSTALL ENCELUM WIRELESS CONTROL MODULE CAT. NO. 45583 OR EQUIVALENT FOR EACH FIXTURE TYPE K IN METABOLISM ROOM 100 AND CALF ROOM 114
L	EXPLOSION PROOF LED FIXTURES	HUBBELL MODELING VX2/VAP-VH8LV15-VL15LG OR EQUIVALENT	18W LED 5000K	SURFACE	120	MOUNT FIXTURES ON UNDERSIDE OF ROOF DECK. COORDINATE FINAL LOCATION WITH OTHER EQUIPMENT IN SPACE.

PERMIT TO PRACTICE

MPE ENGINEERING LTD.

PERMIT NUMBER: P 3680

The Association of Professional Engineers and Geoscientists of Alberta



Public Works and Government Services Canada


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REAL PROPERTY SERVICES
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CKA + ID

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MPE Engineering Ltd.

NOTES:

1. CONTRACTOR TO SUPPLY AND INSTALL WALL MOUNTED DATA RACK FROM ENCELUM LIGHTING CONTROL SYSTEM IN OFFICE AREA. CONFIRM EXACT LOCATION WITH ENGINEER AND CLIENT ON SITE PRIOR TO INSTALLATION.

2. CONTRACTOR TO PROVIDE TO ABOVE LIST OF MATERIAL AND ALL OTHER NECESSARY COMPONENTS FOR A FULLY FUNCTIONING LIGHTING CONTROL SYSTEM.

3. WIRELESS 3 SCENE CONTROLLERS TO BE MOUNTED AT MAIN ENTRANCE TO EACH COW BAY. CONFIRM EXACT LOCATION WITH ENGINEER AND CLIENT ON SITE PRIOR TO INSTALLATION.

4. PROVIDE TWO(2) 120V, 20A, T-SLOT RECEPTACLES AT LIGHTING CONTROL DATA RACK FROM NEAREST PANEL. PROVIDE BREAKERS, CONDUIT, WIRE, ETC... REQUIRED FOR RECEPTACLES.

DO NOT SCALE DRAWINGS

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A	ISSUED FOR TENDER	16/02/02
Revision/Revelation	Description/Description	Date/Date
Client/client		
PWGSC AAFC		
Project title/Titre du projet		
LETHBRIDGE, ALBERTA 86 RESEARCH CENTRE ROAD B86 DAIRY & METABOLISM UNIT		
ROOF REPLACEMENT LETHBRIDGE RESEARCH CENTRE - DAIRY BARN		
Approved by/Approuve par		
Designed by/Concept par		
P.P.G.		
Drawn by/Dessine par		
N.O.W.		
PWGSC Project Manager/Administrateur de Projets TPSGC		
BB		
PWGSC, Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSGC		
Client/client		
AGRICULTURE AND AGRI-FOOD CANADA		
Drawing title/Titre du dessin		
ELECTRICAL LUMINARIE SCHEDULE		
Project No./No. du projet	Sheet/Feuille	Revision no./La Revision no.
R.071094.001	E1.3	A
MPE No. 1651-004-00		
OF -		

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