ELECTRICAL SPECIFICATIONS (DIVISION 16)

	only after written approval has been obtained from the Engineer before closing of tenders. 8 Guarantee all work and equipment installed for twelve (12) months after completion. Replace without charge any defective items, provided that failure is not due to improper usage by others. 9 Shop Drawings: 7 copies required to show details of main equipment	.6 Unless otherwise noted, all material to be new, best quality, and bear CSA approval. .7 Substitution of materials, equivalent to those specified, may be made	.4 Examine the site and local conditions affecting trade before submitting tender5 Examine architectural drawings and those of other sections for		Electrical Code (CSA 22.1) and amendments thereto, the Alberta Building and the regulations of the Electrical Inspection Authorities. 2 Obtain necessarty permits, pay all applicable fees. On completion,	1.0 GENERAL 1.1 General Requirements
items, including distribution equipment and lighting fixtures. Maintenance Manuals: 3 required, 3 ring minimum 2" binders, indexed, include equipment brochures, shop drawings, names and addresses of suppliers. Record Drawings: during construction, on a set of white prints, mark any changes	the Engineer e (12) months after tems, provided that if main equipment	quality, and d, may be made	before ections for	for complete	of the Carladian, the Alberta Building Code, orities. On completion,	

Materials and Equipment

1.1 Raceways and Conductors

1.1 Raceways: electrical metallic tubing and/or rigid galvanized steel conduit if indicated. Use AC-90 armoured cable for end runs only. Sized: per Canadian Electrical Code. Motor connections: minimum 600 mm of PVC jacketed flexible steel conduit with liquid tight fittings. Exterior: rigid galvanized steel with threaded fittings.

1.2 Conductors: copper, minimum #12 for branch circuits, R90 X-link insulation. Control wires: minimum #14 for 120 volts. Service conductors: RW90 insulation suitable for -40 deg. C. Low voltage control wiring, up to 50 volts, by Division 15.

2. Receptacles and Switches

Parallel blade receptacles: rated 15 amps, 125 volts, specification grade. Isolated ground receptacles: Hubbell #1G-5262 or equal. SPST toggle switch: rated 15 amps, 125 volts, medium specification grade. Special receptacles and connections as indicated.

3. Outlet Boxes

For lighting fixtures: formed metal boxes 100 mm round or square. For surface mounted switches and/or receptacles: cast boxes with threaded hubs.

Outdoor outlet boxes and where indicated WP: cast metal with threaded hubs.

2.0

- hubs.

 4 Branch Circuit Panels

 1 600/347 or 208/120 volts, 3 phase, 4 wire branch panels, 42 cct. unless otherwise shown and as required complete with full size breakers as required. Typewritten directory inside door to have correct circuit information.

 2 Branch Circuit Breakers: Full size breakers to match panel manufacturer and interrupting capacity.

 3 Provide plywood backing behind panels, 1200x2400x19mm (4'x8'x3/4").

 5 Motor Starters

 1 Manual motor overload protection switches: single or double pole, complete with pilot light and suitable "heaters".

 2 Automatic Magnetic Starters: 1, 2 or 3 pole, minimum EEMAC 0, in EEMAC 1 enclosure, c/w control transformer and auxiliary contacts as required, manual reset button, overload relay, with one pole per phase wire HOA selector and red running light.

 3 Motor starters may be in separate enclosures or may be mounted in modular starter assemblies as Westinghouse 4-Plex units or similar.

 6 Main Service and Distribution to come from Mall Distribution system.
- Incoming main distribution to come from Mall Distribution system. Main Service to tenancy: 200 amps, 600/347 volts, 3 phase 4-wire. Fused main switch and splitter as shown. Provide a $1200 \times 2400 \times 19 \text{mm}$ (4' \times 8' \times 3/4") plywood backing for main distribution equipment.
- Service Ground
 Ground conductor from mall distribution.
- œ
- Telephone Distribution System
 .1 Service receway: 100mm conduit from mall telephone distribution
 to a GIS plywood backboard 1200mm x 2400mm x 19mm (4' x 8' x 3/4").
 Provide pull rope in raceway.
 .2 Supply and install the conduit system where shown.
- Lighting System

 1 Lighting fixtures: as shown on drawings complete with lamps and all necessary accessories for complete and proper installation. CSA approved, flourescent: minimum 20 gauge steel unless otherwise indicated. Flourescent ballasts to be energy saving type, and lamps to be T-5 energy saving type.

 2 HID fixtures to be as indicated. Ballasts for exterior fixtures to be -30°C.

 Photo cell controlled exterior HID fixtures.

 3 Plastic Lenses:

 100% virgin acrylic, minimum 3/16" thick configuration as per schedule.

 4 Exit Lights:

 Complete with LED lamps, metal housing, 6" high letters, 120V and 12V operation.

- .5 Battery Operated Emergency Lighting Combination Emergency/Exit Lighting: Full automatic operation on power failure for (12) volt operation with minimum operating time of one half hour with all (9) watts sealed beams on. Units complete with battery rated at minimum 36 watts, fully automatic charger with automatic high and low rates, built—in test switch, remote and local 9w tungsten mini—lights (white) high rate charge indicator, battery state indicator, mounting bracket, automatic disconnection at low—charge condition and 5 year guarantee.
- motor driven equipment, EEMAC 3 for exterior.

. 10

.1 Panels: Identify breaker panels, as indicated on drawings and indicate main voltages.
 .2 Enclosed breakers, disconnect switches, starters, contactors: indicate equipment being controlled and voltage.
 .3 Terminal cabinets and pullboxes: indicate system and voltage.
 .4 On/Off switches: Indicate areas being served.

FIELD REVIEW:

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PLANS EXAMINATION:

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.1 Make arrangement to the telephone .2 Provide the termin from the main ovice for the

1 All work to be of high quality. Clean up all debris from electrical portion of the project. The installation to meet the latest requirements of the Canadian Electrical Code, Provincial, Municipal and Local Codes, and Local Inspection Department.

2 Provide branch circuit wiring for all lighting and power circuits.

3 Allow for a variation of 3000 mm from locations shown for outlets and equipment without extra cost. Confirm final location prior to installation.

4 Identification
Identify the following electrical equipment with 3mm thick plastic, engraved black faced lamacoid nameplates with mechanical fixings:

1.1 Panels: Identify breaker panels, as indicated on drawings and indicate main voltages to all outlets, switches, controllers, notors, F.A. devices, etc.

6 Wiring of Mechanical Equipment: supply and install necessary electrical equipment, power and control wiring for mechanical equipment. This includes breakers, disconnects, starters, conduit, wiring and complete connection. Refer to Mechanical drawings, schedules and specifications. Confirm voltage, phase, and size of mechanical equipment; size breakers and feeders per C.E.C.

7 Lighting System

1. Install all fixtures per the schedule and as indicated, conduit system, wiring, hangers, and all necessary items required for a complete system including control (switches, contractors, etc.) Run 120 volt AC and 12 volt DC power into exit lights.

2 Cooperate with personnel of other divisions to determine the proper location of lights, switches, etc., to avoid confliction between the electrical installation and the mechanical ducts, pipes, ceiling layout, etc., determine exact position of lighting outlets in the mechanical area only after all mechanical layouts in these rooms have been finalized; ensure that fixtures suit the type of ceiling in or on .1 Re-install existing fire alarm system, and reconfigure to the new floor plan
.2 Provide continuous ground to all device outlet boxes.
.3 System verification per CAN4—S537. Provide all personnel,
equipment including 2—way radios, and materials for verification after
installation is 100% complete.
.4 Turn off 120 volt power to the Fire Alarm System for 24 hours
before the verification. System to operate on standby battery supply for
24 hours before verification, during verification testing, and for
continuous operation of all alarm signal devices before restoration
of 120 volt AC power.
.5 Provide an alarm circuit to the telephone terminal board for
remote alarm monitoring.
.6 Separate trouble and supervisory trouble signal only for
tamper swithces (Supervisory requires a panel re-set). N/A Fire Alarm System shall addressable and monitored NOTE; THE BASE BUILDING FIRE ALARM COMPANY SHALL BE USED FOR SUPPLY AND INSTALLATION ON ALL COMPONENTS AND WORK UNDER THIS PHASE OF THE PROJECT. ne per sprinkler flow switches. N/A nd supervisory trouble signal only for (Supervisory requires a panel re—set). nvoice Visions Electronics Ltd. for the

NOTE: ELECTRICAL CONTRACTOR SHALL REVIEW DIVISION 15 PLANS AND TO DETERMINE THE COMPLETE SCOPE OF WORK REQUIRED TO CONMECHANICAL COMPONENTS TO THE BUILDING ELECTRICAL SYSTEM. S AND SPECIFICATIONS
TO CONNECT ALL

ALBERTA FIRE CODE — LATEST EDITION

CANADIAN ELECTRICAL CODE — LATEST EDITION

NATIONAL BUILDING CODE — LATEST EDITION

NATIONAL FIRE CODE — LATEST EDITION

NFPA—13 & ALL OTHER APPLICALBE NFPA SECTIONS

CANADIAN PLUMBING CODE — LATEST EDITION

NATURAL GAS INSTALLATION CODE CGA—B149

SMACNA

DESIGN & INSTALL ALL CODES AND STANDARDS.

MECHANICAL SYSTEMS TO THE FOLLOWING

ALL ELECTRICAL OUTLET PLUG SHALL BE LOCATED AT 12" A.F.F. UNLESS NOTE OTHERWISE. MAXIMUM OF FOUR (4) PLUGS PER 15 AMP BREAKER UNLESS NOTED OTHERWISE.

MOTOR
DISCONNECT, NON-FUSED
DISCONNECT, FUSED
COMBINATION MOTOR STARTER
THERMOSTAT OUTLET, OUTLET, OUTLET, OUTLET, SPEAKER MISC. COMMUNICATIONS ELECTRICAL PANEL **DEVICES** TELEPHONE DATA TELEVISION MICROPHONE SATELLITE EGEND \$ \$\\S\\$\$ \$ \\S\\$\$ \S\\$\$ \\S\\$\$ \S\\$\$ \\S\\$\$ \\S\\$ FOR SINGLE
3-WAY
4-WAY
DIMMER
VARIABLE SPEED
MANUAL MOTOR
PROTECTION SWITCH SIMPLEX DUPLEX DUPLEX DUPLEX DUPLEX FOURPLEX, CEILING MOUNTED J.B. FLOOR MOUNTED J.B. DENOTE DEVICE TO BE INSTALLED ABOVE COUNTER **SWITCHES** RECEPTACLES SNOISIA GFI WEATHERPROOF DEDICATED WALL MOUNTED WORK MANUAL PULL STATION
BELL
STROBE
HORN/STROBE
SMOKE DETECTOR
SMOKE DETECTOR, DUCT
HEAT DETECTOR, FIXED
HEAT DETECTOR, RATE O EMERGENCY LIC C/W 2 LAMPS EMERG PACK CONTROL EXIT, FIRE EMERGENCY EMERGENCY LIGHTING, EXIT SIGN KE DETECTOR
KE DETECTOR, DUCT
I DETECTOR, FIXED TEMP.
I DETECTOR, RATE OF RISE
KE ALARM GENCY **EMERGENCY** ALARM PANEL LIGHTING, LIGHTING BATTERY LIGHTING, **DEVICES** 2 HEAD E E LIGHTING SIGN COMBO PACK REMOTE PACK

ı Ö. BUILDING PERMIT

ADD EMERGENCY COMBO PARKS. JULY 13, 12

TENDER

TENDER

SITE AND POWER PLAN CHANGES AUG 07, 12

SITE AND POWER PLAN CHANGES AUG 15, 12

A" U/G HI VOLT CONDUIT ADDED AUG 15, 12 DESCRIPTION

BUILDING PERMIT

ADD EMERGENCY COMP

TENDER

SITE

JUNE

2012

双 P.O. Box 2531 Didsbury, Alberta, TOM 0 Tel: (403) 703 6161 Lamontagne. . 0W0 Eng.

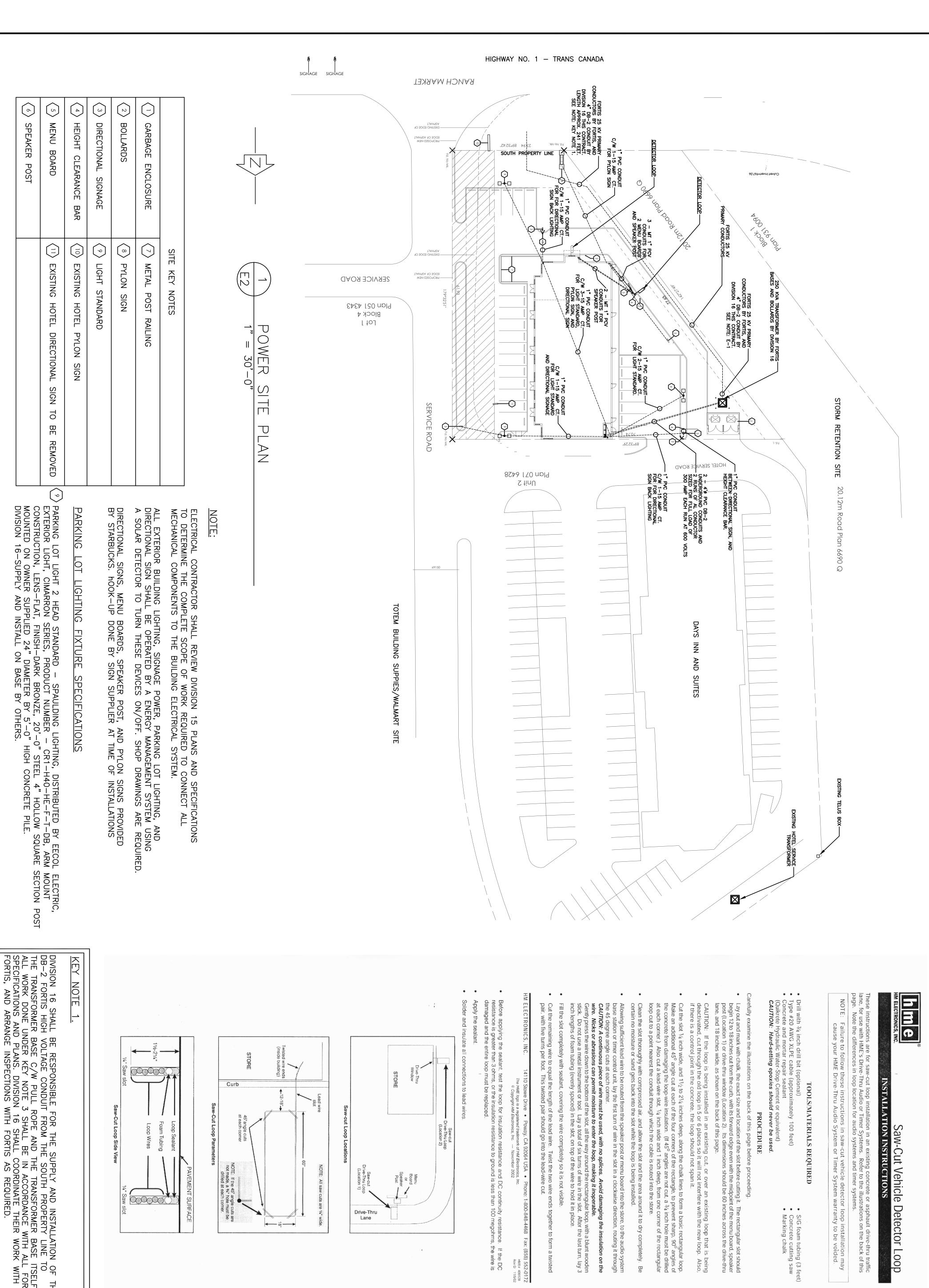
500 RANCH MARKET 500 RANCH MARKET STRATHMORE, AB PROJECT MAIL: ralamont@shaw,ca RETAIL DEVELOPMENT

SCALE AS SHOWN 10B #: 1210 DATE CHECKED DWG: 2012 REVISION: 6 DRAWING ON

SPECIFICATIONS

PLOTTED FOR REV. 6: 24,

COPIED:





Saw-Cut Vehicle Detector Loop

INSTALLATION INSTRUCTIONS

Failure to follow these instructions in saw-cut vehicle detector loop installation may cause your HME Drive-Thru Audio System or Timer System warranty to be voided. saw-cut loop installation in an existing concrete or asphault drive-thru traffic rive-Thru Audio or Timer Systems. Refer to the illustrations on the back of this in loop location for audio systems and timer systems.

ALBERTA BUILDING CODE - 2006

ALBERTA FIRE CODE - LATEST EDITION

CANADIAN ELECTRICAL CODE - LATEST EDITION

NATIONAL BUILDING CODE - LATEST EDITION

NATIONAL FIRE CODE - LATEST EDITION

NFPA-13 & ALL OTHER APPLICALBE NFPA SECTIONS

CANADIAN PLUMBING CODE - LATEST EDITION

NATURAL GAS INSTALLATION CODE CGA-B149

SMACNA

DESIGN & INSTALL ALL MECHANICAL SYSTEMS TO THE FOLLOWING CODES AND STANDARDS.

NOTE:

se instructions are for se, for use with HME's Dri e. Note the differences

TOOLS/MATERIALS REQUIRED

optional) e (approximately 100 feet) ir sealant

PROCEDURE

Drill with ¾ inch drill bit (optional)

Type #20 AWG XLPE cable (approximately 100 feet)

Concrete and mortar repair sealant
(Quikrete Hydraulic Water-Stop Cement or equivalent)

CAUTION: Hard-setting epoxies should never be used.

Lay out and mark begin 12 to 18 inchepost (Location 1) ane, and 18 inche

S/G foam tubing (3 feet) Concrete cutting saw Marking chalk

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Cut the slot 1/4 inch wide. Make an additional 45° a

ean the slot thoroughly rtain no moisture or sa

with compressed air, and allow the slot and the area around it to dry completely. Bend gets back into the slot while the loop is being installed.

o be routed from the speaker post or menu board into the store, to the audio system unit, lay the first turn of wire in the slot in a clockwise direction, routing it through

at the slot 1/4 inch wide, and 11/2 to 21/4 inches deep, along the chalk lines to form a basic rectangular ake an additional 45° angle cut at each of the four corners of the rectangle, to prevent sharp, 90° angle concrete from damaging the loop-wire insulation. (If 45° angles are not cut, a 3/4 inch hole must be deach corner.) Also cut a lead-wire slot, 1/4 inch wide and 1 inch deep, from one corner of the rectan up p cut to a point nearest the conduit through which the cable is routed into the store.

f the loop is being installed in an existing cut, or over an existing loop that is being cut through the old loop in 5 or 6 places so it will not interfere with the new loop. Also, control joint in the concrete, the loop should not span it.

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Before applying the sealant, test the loop for insulation resistance and DC continuity resistance. If the DC resistance is greater than 3 ohms, or the insulation resistance to ground is less than 100 megohms, the wire is damaged and the entire loop must be replaced.

Cut the remaining wire to equal the length of the lead wire. Twist the two wire ends togo pair, with five turns per foot. This twisted pair should go into the lead-wire cut.

is at each corner.

s piece of wire must be used, with no splices. Avoid damaging the insulation on the spiece of wire must be used, with no splices. Avoid damaging the insulation on the scan permit moisture to enter the loop, making it inoperable.

who to the bottom of the slot, all the way around the rectangular loop, with a blunt wooden all instrument or tool. Lay a total of six turns of wire in the slot. After the last turn, lay 3 all instrument or tool. Lay a total of six turns of wire to hold it in place.

DATE Y 10, Y 13, Y 13, Y 19, S 15,	DESCRIPTION DATE JULY 10, 12 DD EMERGENCY COMBO PARKS. JULY 13, 12 ENDER JULY 19, 12 CONDUIT CHANGES AUG 07, 12 THE AND POWER PLAN CHANGES AUG 15, 12 THE AND POWER PLAN CHANGES AUG 15, 12
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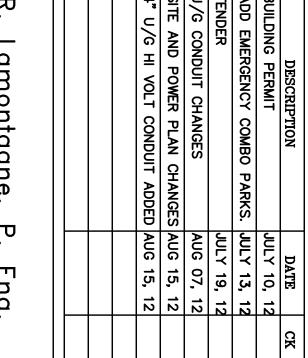
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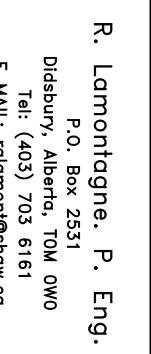
Drive-Thru

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STORE

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	JULY 13, 12	DD EMERGENCY COMBO PARKS. JULY 13, 12
	JULY 10, 12	UILDING PERMIT
CK	DATE	DESCRIPTION
		REVISIONS





STORE

Curb

NOTE: If the 45° angle cuts are not made, a %" hole must be drilled at each corner.

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Loop Wires

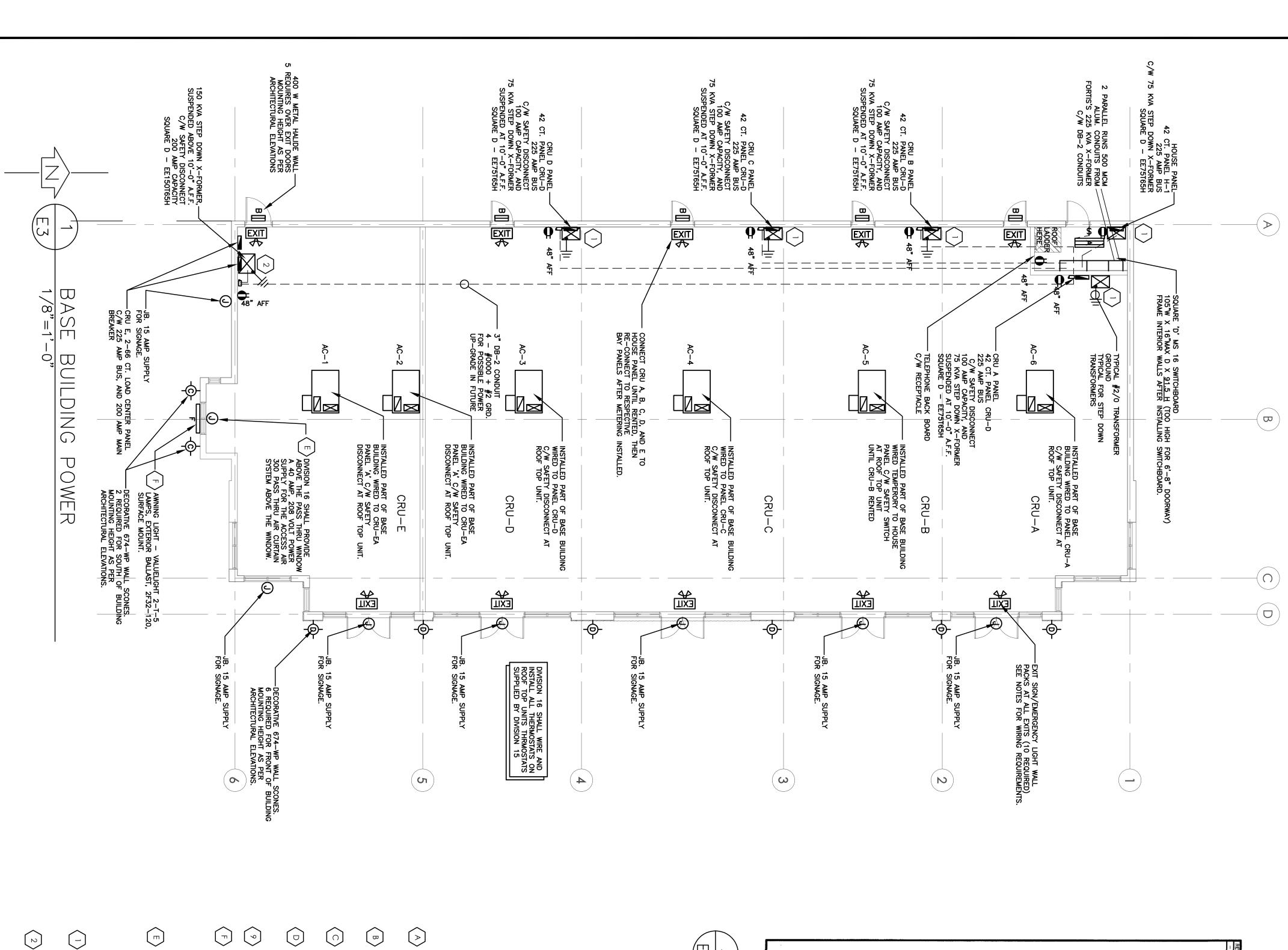
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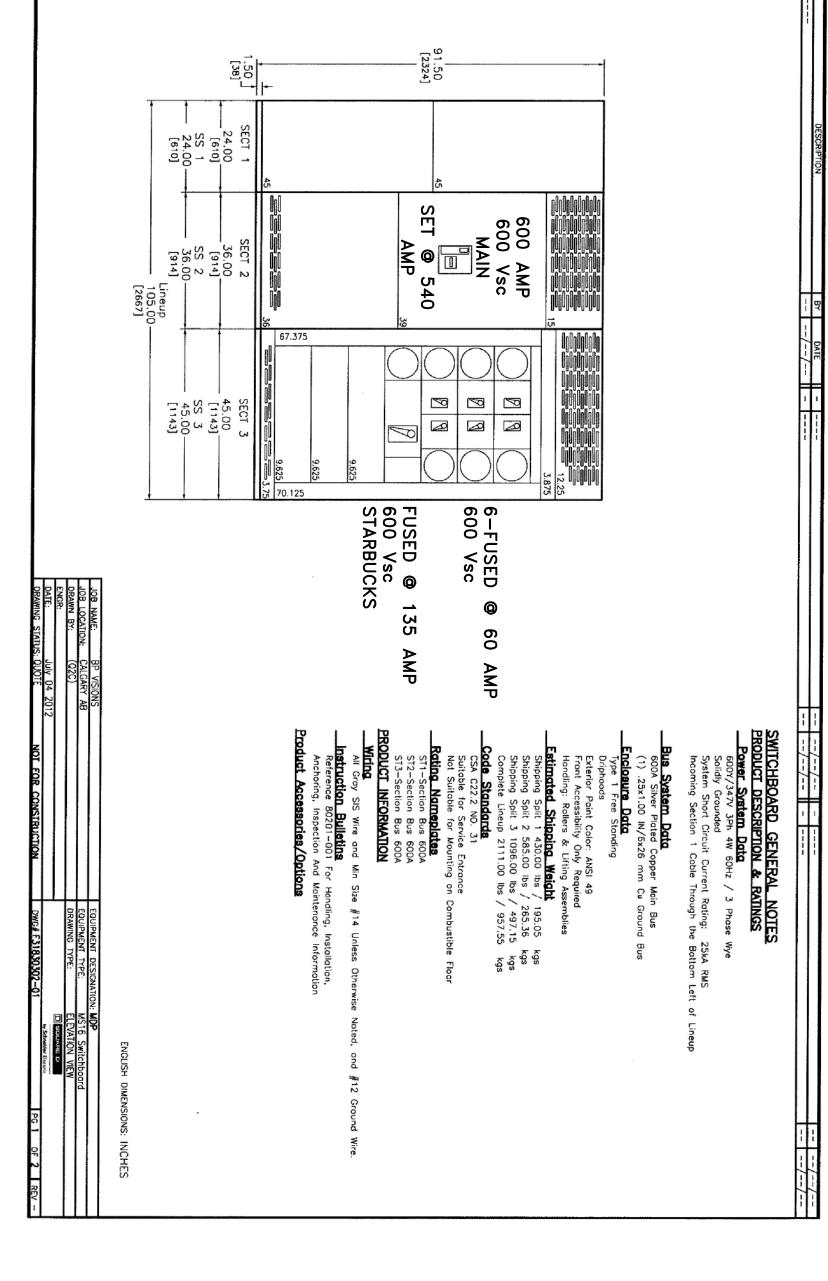
m Tubing

E MAIL: raidinoni@snaw,ca
Tel: (403) 703 6161
Didsbury, Alberta, TOM OWO
P.O. Box 2531
R. Lamontagne. P. Eng.

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PI OTMED.	JOB #: 1210	DRAWN BY	SCALE AS SHOWN	
COPTED	DWG:	CHECKED BY	DATE MAY 28, 2012	
	REVISION: 6	EZ	DRAWING NO.	

PLOTTED FOR REV. 6: AUGUST 24, 2012 @ 07:00





PLANS EXAMINATION:

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DESIGN & INSTALL ALL MECHANICAL SYSTEMS CODES AND STANDARDS.

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FOLLOWING

ALBERTA BUILDING CODE ALBERTA FIRE CODE — L

ALBERTA BUILDING CODE — 2006

ALBERTA FIRE CODE — LATEST EDITION

CANADIAN ELECTRICAL CODE — LATEST EDITION

VATIONAL BUILDING CODE — LATEST EDITION

VATIONAL FIRE CODE — LATEST EDITION

VATIONAL FIRE CODE — LATEST EDITION

VFPA—13 & ALL OTHER APPLICALBE NFPA SECTIONS

CANADIAN PLUMBING CODE — LATEST EDITION

VATURAL GAS INSTALLATION CODE CGA—B149

N.T.S. SERVICE

ENTRY

SWITCHBOARD

AND

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ERING

ELECTRICAL CONTRACTOR SHALL REVIEW DIVISION 15 PLANS AND SPECIFICATIONS TO DETERMINE THE COMPLETE SCOPE OF WORK REQUIRED TO CONNECT ALL MECHANICAL COMPONENTS TO THE BUILDING ELECTRICAL SYSTEM.

ALL ELECTRICAL OUTLET PLUG SHALL BE LOCATED AT 12" A.F.F. UNLESS NOTE OTHERWISE. MAXIMUM OF FOUR (4) PLUGS PER 15 AMP BREAKER UNLESS NOTED OTHERWISE.

LOCATION OF SIGNAGE JUNCTION BOXES AND EXTERIOR BUILDING LIGHTING SHALL B DETERMINED FROM THE ARCHITECTURAL PLANS, AND NOT FROM THE ELECTRICAL PLATHIS SHALL INCLUDED LOCATIONS ON EXTERIOR WALLS AND HEIGHT ABOVE GRADE, A SHALL BE SUBJECT TO FINAL APPROVAL OF LOCATIONS BY STARBUCKS. 盟 AND ,SN4 DETERMINED

THE EXIT/EMERGENCY WALL PACK COMBOS SHALL BE WIRED TO THE HOUSE PANEL

LIGHTING FIXTURE **SPECIFICATIONS**

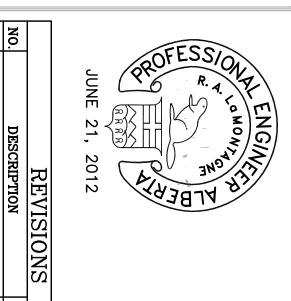
- \bigcirc ELECTRICAL ROOM LIGHT - VALUELIGHT 3-T-5 LAMPS, MODEL 1144A-3F32-SURFACE MOUNT C/W SUSPENSION KIT AND SUSPEND AT $12^{\circ}-0^{\circ}$ AFF. 120,
- (B) EXTERIOR SECURITY LIGHTING, DISTRIBUTOR: EECOL ELECTRIC, VALUELIGHT: COMOS SM-727-H40-120, 400 WATT METAL HALIDE LAMP. COLOUR-DARK BRONZE.
- COOPER LIGHTING, SERIES 674-WP WALL SCONCE, SIZE: 31", LAMPS: T5/2/14, FINISH: CLEAR ANODIZED ALUMINUM, OPTIONS: NONE, 2 REQUIRED. VOLTAGE: 120
- COOPER LIGHTING, SERIES 674-WP WALL SCONCE, SIZE: 43", LAMPS: T5/2/21, FINISH: CLEAR ANODIZED ALUMINUM, OPTIONS: NONE, 6 REQUIRED. LTAGE: 120
- SEE PLAN E-2-PARKING LOT LIGHTING FIXTURE, 3 FIXTURES REQUIRED.
- AWNING LIGHT VALUELIGHT 2-T-5 LAMPS, EXTERIOR BALLAST, 2F32-120, SURFACE MOUNT.

ACCESS AIR 300 PASS-THRU AIR CURTAIN SYSTEM

AA300 - 275 PASS-THRU AIR CURTAIN SYSTEM, 208 VOLTS, 7100 HEATER WATTS, 10, 600 FPM AIR VELOCITY, 1 HEATER SUPPLIED AND INSTALLED BY DIVISION 16. 32 AMP,

TRANSFORMER **SPECIFICATIONS**

- \bigcirc 5 - TRANSFORMER DRY TYPE 75 KVA 600D208/120 WT.=576 LBS. SQUARE D MODEL EE75T65H, D = 20", HT=37", AND W=30"
- 1 TRANSFORMER DRY TYPE WT.=908 LBS. 150 KVA 600D208/120 SQUARE D MODEL EE150T65H, \Box 27", **H**= AND W=32"



	6	5	4	3	2	_	NO.		
	4" U/G HI VOLT CONDUIT ADDED AUG 15, 12	SITE AND POWER PLAN CHANGES AUG 15, 12	EXTERIOR LIGHTING CHANGES	TENDER	ADD EMERGENCY COMBO PARKS. JULY 13, 12	BUILDING PERMIT	DESCRIPTION	REVISIONS	
	AUG 15, 12	AUG 15, 12	AUG 07, 12	JULY 19, 12	JULY 13, 12	JULY 10, 12	DATE		
							CK		

Tel: (403) 703 6161 E MAIL: ralamont@shaw.ca	P.O. Box 2531 Didsbury, Alberta, TOM OWO	R. Lamontagne. P. Eng.
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Didsbury, Alberta, TOM OWO Tel: (403) 703 6161 E MAIL: ralamont@shaw,ca E MAIL: RETAIL DEVELOPMENT SOO RANCH MARKET RETAIL DEVELOPMENT	PROJECT 500 RANC	
	PROJECT 500 RANCH MARKET 500 RANCH MARKET STRATHMORE, AB	P.O. E Didsbury, Alk Tel: (403 E MAIL: rala
haw,ca	RETAIL	P.O. Box 2531 ry, Alberta, TON (403) 703 61 : ralamont@sh
<u> </u>	DEVELOPMEN1	1 0M 0W0 \$161 haw,ca

BASE BUILDING	NG ELECTRICAL	·
SCALE AS SHOWN	DATE MAY 28, 2012	DRAWING NO.
DRAWN BY	CHECKED BY	
JOB #: 1210	DWG:	REVISION: 6

PLOTTED:

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