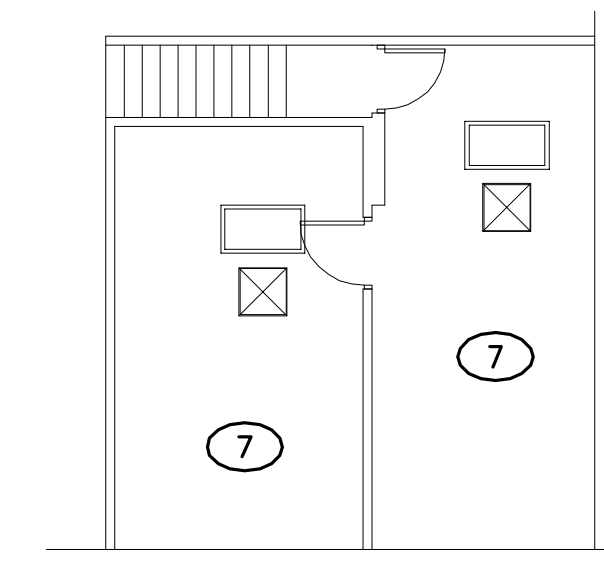
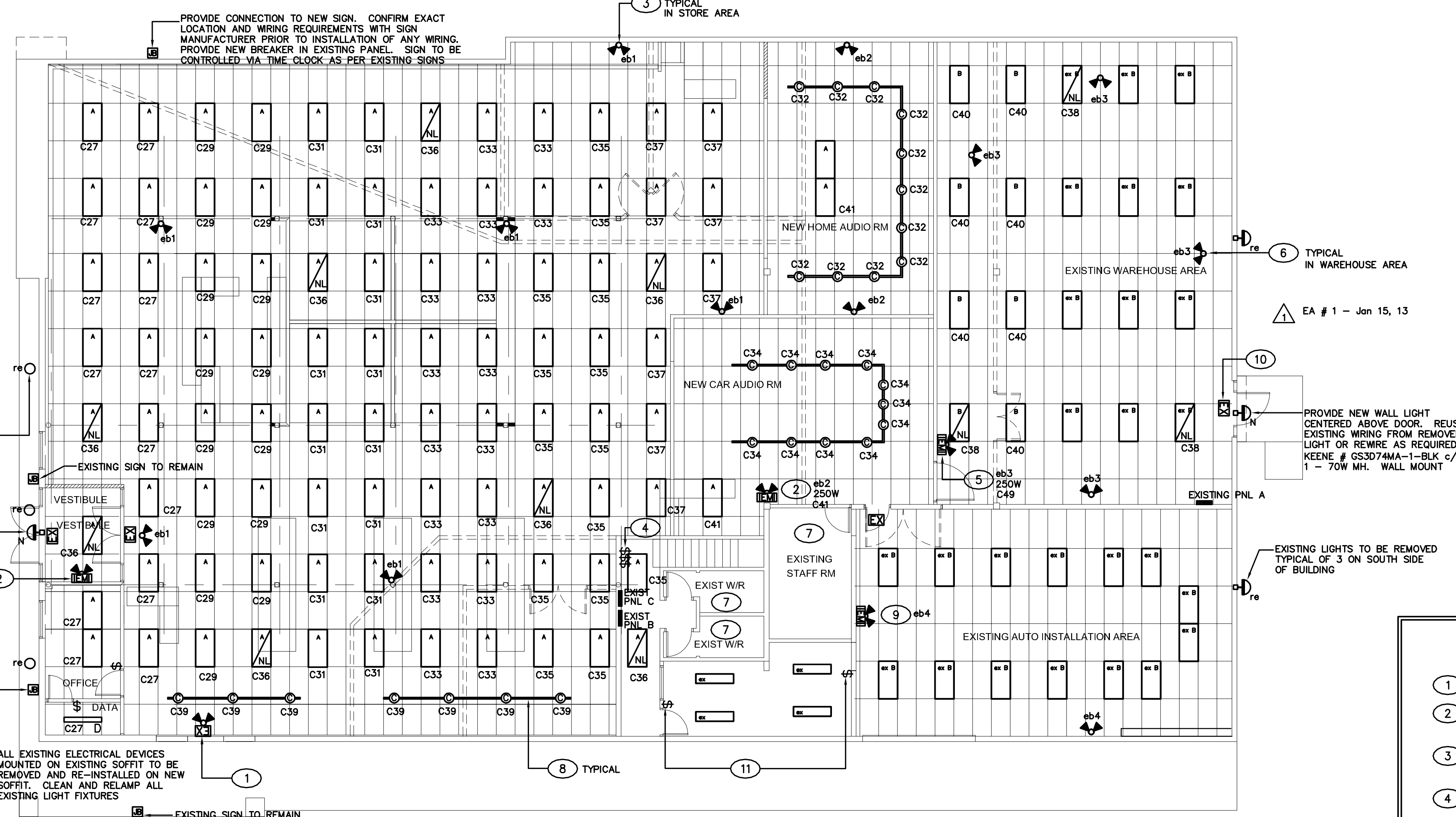


EA # 1 - Jan 15, 13



MEZZANINE PLAN
SCALE: 1/8" = 1' - 0"

EA # 1 - Jan 15, 13

EXISTING SOFFIT LIGHTS ON NORTH SIDE TO BE REMOVED. REUSE WIRING FOR NEW WALL LIGHTS

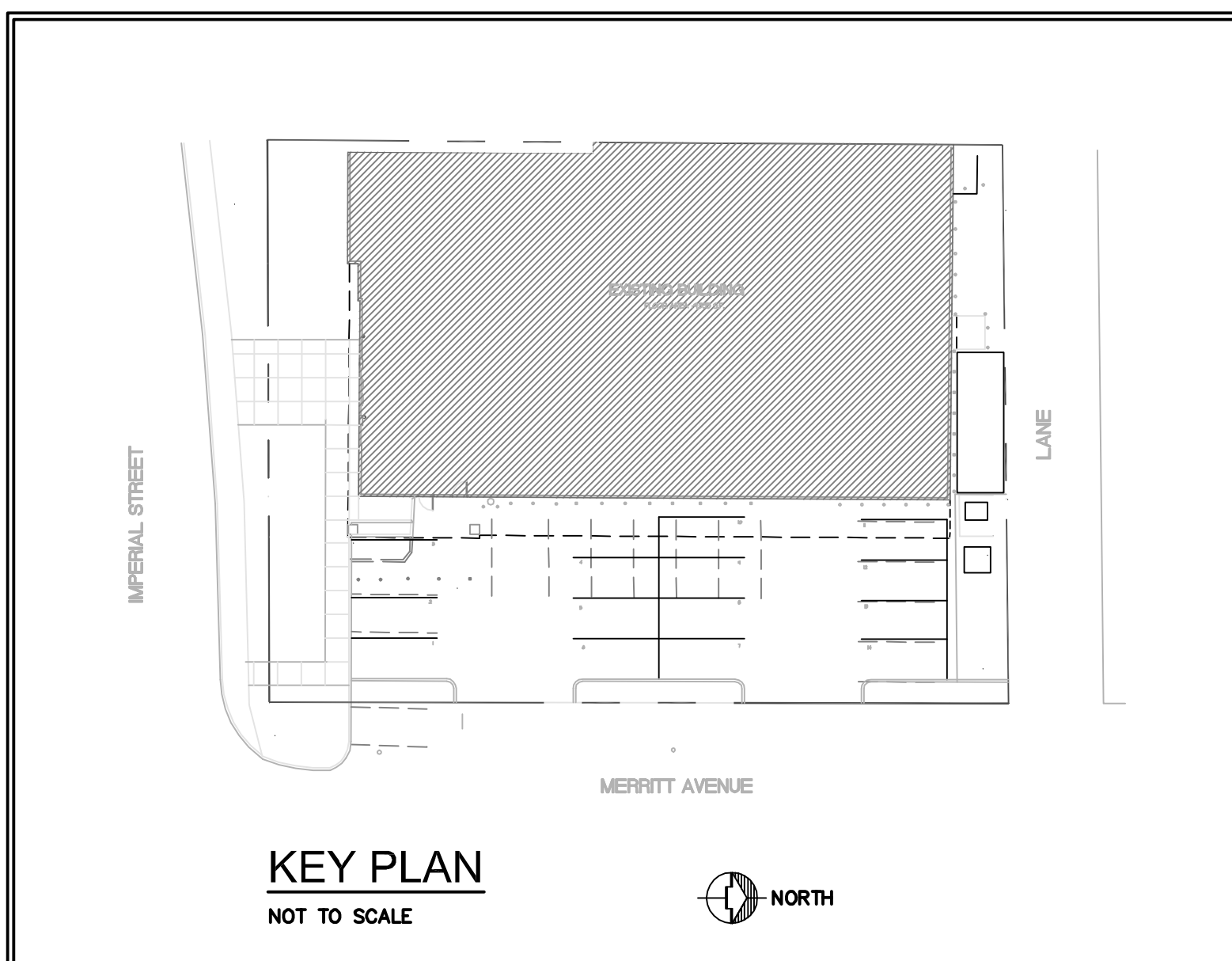
PROVIDE NEW WALL LIGHTS CENTERED IN BAND ABOVE WINDOWS AND DOORS. REUSE EXISTING WIRING FROM REMOVED SOFFIT LIGHTS OR REWIRE AS REQUIRED. KEENE # GS3D74MA-1-BLK c/w 1 - 70W MH. WALL MOUNT

PROVIDE CONNECTION TO NEW SIGN. CONFIRM EXACT LOCATION AND WIRING REQUIREMENTS WITH SIGN MANUFACTURER PRIOR TO INSTALLATION OF ANY WIRING. PROVIDE NEW BREAKER IN EXISTING PANEL. SIGN TO BE CONTROLLED VIA TIME CLOCK AS PER EXISTING SIGNS

ALL EXISTING ELECTRICAL DEVICES MOUNTED ON EXISTING SOFFIT TO BE REMOVED AND RE-INSTALLED ON NEW SOFFIT. CLEAN AND RELAMP ALL EXISTING LIGHT FIXTURES

EA # 1 - Jan 15, 13

LIGHTING PLAN
SCALE: 1/8" = 1' - 0"



KEY PLAN
NOT TO SCALE

DRAWING LIST

- E1 LIGHTING PLAN
- E2 POWER PLAN
- E3 SPECIFICATIONS & SYMBOLS

LEGAL DESCRIPTION:

PARCEL A, DISTRICT LOT 97, GROUP 1 NEW WESTMINSTER DISTRICT, PLAN BCP23739

CIVIC ADDRESS:

5756 IMPERIAL STREET
BURNABY, B.C.

SITE REVIEWS

THE GENERAL CONTRACTOR AND THE ELECTRICAL TRADES SHALL BE FULLY AWARE THAT THE ELECTRICAL CONSULTANT IS REQUIRED TO REVIEW ALL ELECTRICAL WORK BEFORE IT IS COVERED. FAILURE TO BE CALLED FOR FIELD REVIEWS MAY RESULT IN OUR INABILITY TO ISSUE LETTERS OF ASSURANCE AT PROJECT COMPLETION, WHICH MAY DELAY OCCUPANCY. IT IS IMPERATIVE THAT CONTRACTORS UNDERSTAND THAT REGARDLESS OF LOCAL INSPECTORS, IT IS THE ELECTRICAL ENGINEER OF RECORD WHO SIGNS OFF ON ALL INSTALLED ELECTRICAL WORK. THE CONTRACTOR SHALL NOT COVER ANY ELECTRICAL WORK PRIOR TO REVIEW BY THE ELECTRICAL CONSULTANT. IF WORK IS COVERED WITHOUT BEING REVIEWED THE WALLS MAY HAVE TO BE OPENED TO REVEAL COVERED ELECTRICAL WORK. THE COST TO OPEN WALLS AND RE-COVER SHALL BE BORNE BY THE CONTRACTOR.

PRIOR TO FINAL SITE REVIEW CONTRACTOR TO CONFIRM THAT THE FOLLOWING ITEMS ARE FULLY COMPLETE AND OPERATIONAL

- 1 EXIT LIGHTS AND EMERGENCY LIGHTING
- 2 FIRE ALARM SYSTEM (IF APPLICABLE) COMPLETE AND VERIFIED

CONTRACTOR TO PROVIDE 3 WORKING DAYS NOTICE IN WRITING FOR ALL SITE REVIEWS (ROUGH-IN AND FINAL)

KEY NOTES

- 1 EXISTING EXIT / EMERGENCY UNIT TO BE REMOVED. REMOVE ASSOCIATED WIRING.
- 2 NEW READY LITE EMERGENCY LIGHT BATTERY PACK - SIZE AS NOTED ON DRAWINGS c/w 12W 12V QUARTZ HEADS.
- 3 READY LIGHT QUARTZ SERIES 12W 12V REMOTE EMERGENCY LIGHT HEADS. WIRE TO BATTERY PACK INDICATED. WIRE MAX 4 HEADS PER 100'-0" RUN. HEADS TO BE MOUNTED MAX. 9'-6" AFF
- 4 EXISTING LIGHT SWITCHES TO CONTROL STORE LIGHTING. INSTALL NEW SWITCHES AS REQUIRED RELOCATING SWITCHES AS REQUIRED TO SUIT NEW LAYOUT. PROVIDE PERMANENT LABELS ON ALL SWITCHES INDICATING FUNCTION.
- 5 NEW READY LITE # LD12/250 EMERGENCY LIGHT UNIT c/w 20W 12V QUARTZ HEADS.
- 6 READY LITE 20W 12V REMOTE EMERGENCY LIGHT HEADS. WIRE TO BATTERY PACK INDICATED. WIRE MAX 4 HEADS PER 100'-0" RUN. MOUNT ON CEILING.
- 7 EXISTING LIGHTING IN THESE ROOMS TO REMAIN AS IS. CLEAN AND RELAMP OR REPLACE ANY DAMAGED FIXTURES.
- 8 EXISTING TRACK LIGHTING TO BE REUSED OR REPLACED AS REQUIRED TO SUIT NEW LAYOUT.
- 9 READY LITE # LD12/150 EMERGENCY LIGHTING BATTERY PACK c/w 12W 12V QUARTZ HEADS. WIRE TO LIGHTING CIRCUIT IN ROOM.
- 10 ALL EXIT LIGHTS TO BE NEW RUNNING MAN TYPE. REPLACE ALL EXISTING EXIT LIGHTS WITH NEW TYPE WIRE ALL EXIT LIGHTS TO NEW EXIT LIGHT CIRCUIT.
- 11 PROVIDE NEW SWITCHES FOR LIGHTS IN THESE ROOMS.

GENERAL NOTES

CIRCUIT NUMBERS SHOWN ARE DIAGRAMMATIC ONLY. WIRE TO AVAILABLE CIRCUITS IN EXISTING PANELS.

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER & CATALOGUE #	MOUNTING	LAMPS	CRF	NOTES
A	2 x 4 FLUORESCENT	REUSE EXISTING OR PROVIDE NEW	CEILING RECESSED	2 - F32 T8		
ex/B	EXISTING LIGHTS TO REMAIN - CLEAN AND RELAMP. REPAIR OR REPLACE ANY DAMAGED LIGHTS					
B	NEW 2 x 4 FLUORESCENT LIGHT TO MATCH EXISTING					
C	EXISTING TRACK LIGHTS TO BE REUSED. CLEAN AND RELAMP AND REPAIR OR REPLACE ANY DAMAGED LIGHTS.					

GENERAL LIGHTING NOTES:

- 1 E.C. IS RESPONSIBLE FOR RECEIVING, UNLOADING, STORAGE AND REPORTING OF DAMAGE OF FIXTURES, LAMPS WHETHER SUPPLIED BY OWNER OR E.C.
- 2 NOT WITHSTANDING LIGHT FIXTURE SCHEDULE, CONTRACTOR TO ENSURE THAT FIXTURES INSTALLED IN INSULATED CEILINGS SHOULD BE MARKED AND APPROVED FOR THIS USE. (E.C. RULE 30-308)
- 3 ALL LUMINAIRES TO BE ADEQUATELY ATTACHED DIRECTLY TO THE BUILDING STRUCTURE. ALL T-8 BAR FIXTURES ARE TO BE SUSPENDED INDEPENDENTLY OF THE T-BAR AND DIRECTLY TO THE STRUCTURE. MINIMUM TWO SUPPORTS PER FIXTURE. PLASTIC PLUGS OR ANCHORS ARE NOT ACCEPTABLE.
- 4 ALL RECESSED FLUORESCENT FIXTURES TO BE c/w HINGED FRAMING KIT. LAY-IN LENSES ARE NOT ACCEPTABLE.
- 5 ALL EXIT LIGHTS AND EMERGENCY LIGHTING ARE TO BE INCLUDED IN BASE TENDER QUOTE.
- 6 LIGHTING FIXTURES AND LAMPS HAVE BEEN CHOSEN TO ACHIEVE MAXIMUM ENERGY CONSERVATION WHILE MAINTAINING ADEQUATE LEVELS OF ILLUMINATION. LAMP SPECIFICATIONS MUST BE STRICTLY FOLLOWED. ANY DEVIATION FROM LAMP SPECIFICATION MUST BE APPROVED IN WRITING BY OWNER.

ISSUE	DATE	DESCRIPTION
	April 2, 13	ISSUED FOR CONSTRUCTION
2	Jan 15, 13	ELECTRICAL ADDENDUM # 2
1	Jan 15, 13	ELECTRICAL ADDENDUM # 1
C	Jan 11, 13	ISSUED FOR TENDER
B	Dec 14, 12	ISSUED FOR BUILDING PERMIT
A	Dec 11, 12	ISSUED FOR REVIEW

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PROJECT

EXISTING BUILDING
ALTERATION FOR VISIONS

5756 IMPERIAL STREET
BURNABY, BC

DRAWING

LIGHTING PLAN

PROJECT NUMBER DRAWING NUMBER

2012-45 E1 of 3

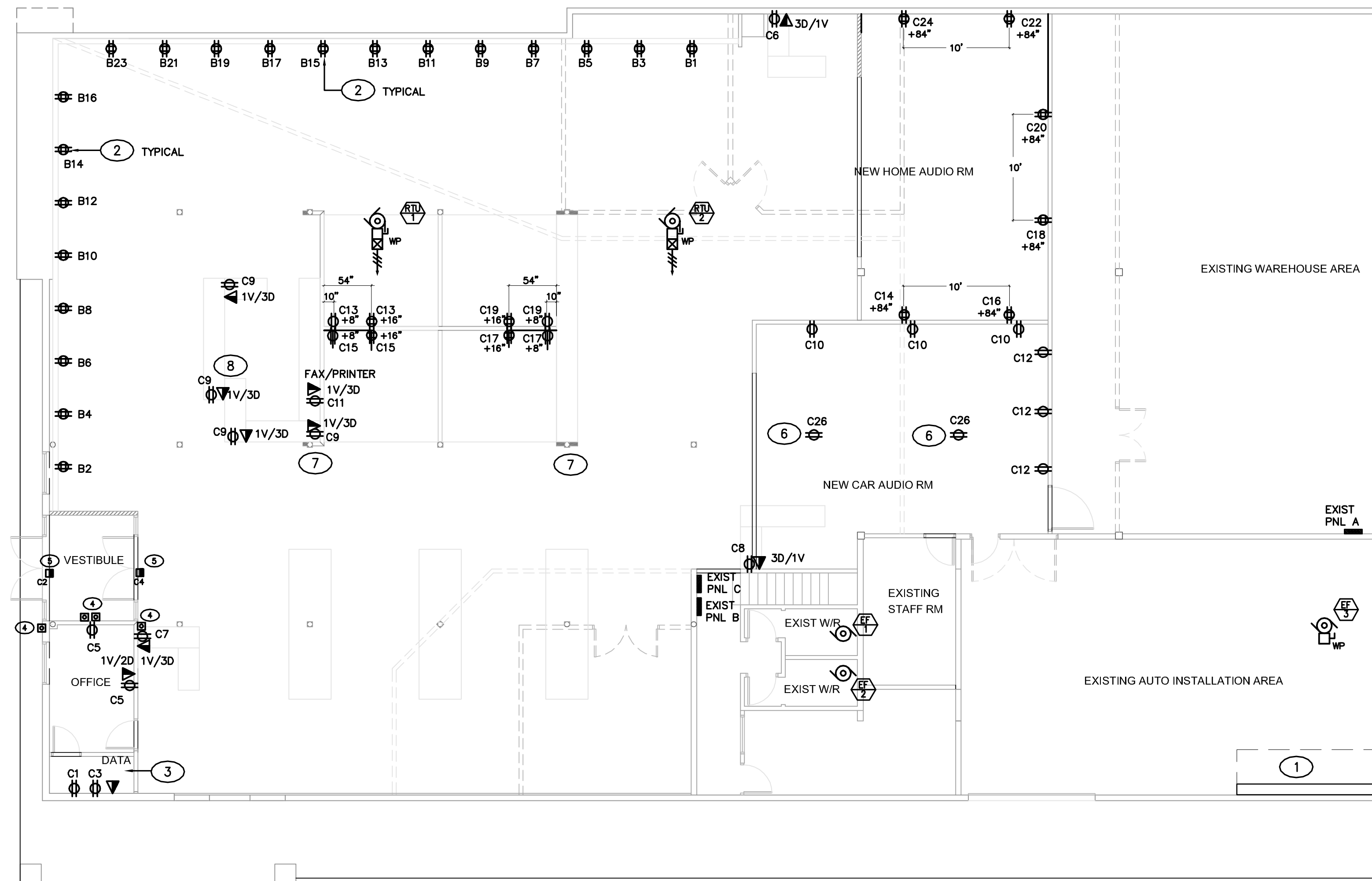
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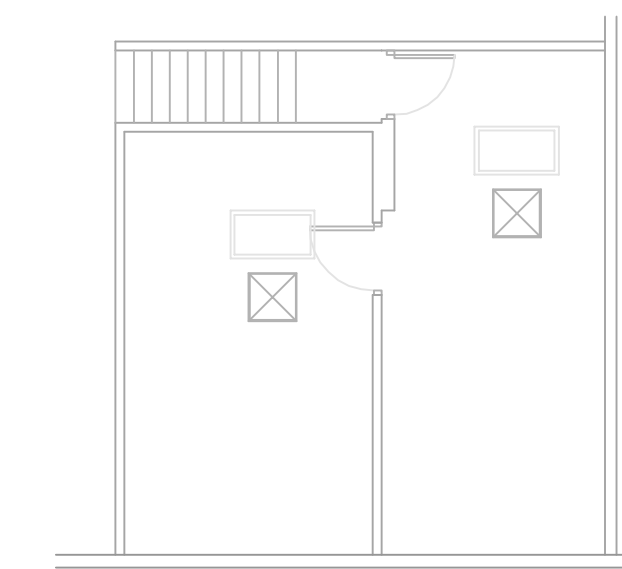
DATE

Nov 2012

REVISION



POWER PLAN
SCALE : 1/8" = 1' - 0"



POWER PLAN
SCALE : 1/8" = 1' - 0"



KEY NOTES

- 1 EXISTING MAIN DISTRIBUTION EQUIPMENT TO REMAIN. ENSURE MINIMUM 1M CLEARANCE IN FRONT OF ALL EXISTING EQUIPMENT.
- 2 20A 120V DOUBLE DUPLEX RECEPTACLES MOUNTED AT +60" AFF. FOR EVO WALL (TYPICAL OF 20 RECEPTACLES) RECEPTACLES AT 5'-0" O.C.
- 3 CONFIRM EXACT DATA ROOM REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION OF ANY WIRING. ALLOW FOR A NEW GROUND BUS TO BE PROVIDED.
- 4 PUSHBUTTON FOR HANDICAP DOOR. CONFIRM EXACT LOCATION AND WIRING REQUIREMENTS WITH DOOR SUPPLIER PRIOR TO INSTALLATION OF ANY WIRING.
- 5 PROVIDE CONNECTION TO HANDICAP DOOR OPENER. CONFIRM EXACT LOCATION AND WIRING REQUIREMENTS WITH DOOR SUPPLIER PRIOR TO INSTALLATION OF ANY WIRING.
- 6 CEILING OUTLET FOR RECEPTACLE
- 7 WIRING FOR FRONT COUNTERS AND VIGNETTE AREAS TO BE RUN OVERHEAD AND DOWN COLUMNS. TYPICAL.
- 8 CONFIRM EXACT MOUNTING OF RECEPTACLES AND DATA, VOICE OUTLETS WITH MILLWORK PRIOR TO INSTALLATION OF ANY WIRING.

GENERAL NOTES

ALL CIRCUIT NUMBERS SHOWN ARE DIAGRAMMATIC ONLY. WIRE TO AVAILABLE CIRCUITS IN EXISTING PANELS.
BALANCE OF RECEPTACLES AND DATA OUTLETS IN BUILDING TO REMAIN. REPAIR OR REPLACE ANY DAMAGED RECEPTACLES.

FIRE ALARM

EXISTING BUILDING DOES NOT HAVE A FIRE ALARM SYSTEM, IS NOT SPRINKLERED AND DOES NOT REQUIRE SPRINKLERS.
OCCUPANCY LOAD DOES NOT REQUIRE A FIRE ALARM SYSTEM.

LOAD DETAILS

EXISTING 400A 120/208V 3Ø 4W SERVICE TO REMAIN. LOADS ARE NOT SUBSTANTIALLY CHANGE SO NO CHANGES TO SERVICE ARE REQUIRED.

MECHANICAL EQUIPMENT SCHEDULE																					
ELECT #	EQUIPMENT	HP	kw	M.C.A.	VOLT	PH	CIRCUIT	BREAKER/FEEDER SIZE	EQUIPMENT			DISCONNECT			STARTER			CONTROL DEVICE			NOTES
									S	I	C	S	I	C	S	I	C	S	I	C	
RTU-1	ROOF TOP UNIT			64	208	3	PNL C	70A-3P	3C # 3 AC90	M	M	E	E	E	E	M	M	E	E	E	
RTU-2	ROOF TOP UNIT			44	208	3	PNL C	50A-3P	3C # 3 AC90	M	M	E	E	E	M	M	E	E	E		
EF-1	EXHAUST FAN	14W			120	1	EXISTING FAN TO BE REPLACED WITH NEW - REUSE EXISTING WIRING AND BREAKER WHERE POSSIBLE														
EF-2	EXHAUST FAN	14W			120	1	EXISTING FAN TO BE REPLACED WITH NEW - REUSE EXISTING WIRING AND BREAKER WHERE POSSIBLE														
EF-3	EXHAUST FAN	1/4			120	1	PNL C	15A-1P	2C # 12 AC90	M	M	E	E	E	M	M	E	E	E		2

LEGEND

E	ELECTRICAL CONTRACTOR	U	MANUAL STARTER	S	SUPPLY
M	MECHANICAL CONTRACTOR	X	MAGNETIC STARTER	I	INSTALL
T	THERMOSTAT	S	MANUAL ON/OFF SWITCH	C	CONNECT
R	REVERSE ACTING THERMOSTAT	V	VARIABLE SPEED SWITCH	T	TYPE
FR	FRACTIONAL H.P.	LS	LIGHT SWITCH		
C	TIME CLOCK	RC	RUNS CONTINUOUSLY		

NOTE:
1. CONTRACTOR TO CONFIRM EXACT SIZE AND LOCATION AND WIRING REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONSULTANT PRIOR TO INSTALLATION OF ANY WIRING. ADJUST WIRING, BREAKERS, ETC. TO SUIT. ALL COSTS TO BE INCLUDED IN BASE TENDER QUOTE.
2. INTERLOCK WITH RTU-2 - CONFIRM REQUIREMENTS WITH MECHANICAL

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PROJECT
EXISTING BUILDING ALTERATION FOR VISIONS
5756 IMPERIAL STREET
BURNABY, BC

DRAWING
POWER PLAN
PROJECT NUMBER: 2012-45 DRAWING NUMBER: E2 of 3
SCALE: AS NOTED
DATE: Nov 2012 REVISION:

GENERAL SPECIFICATIONS

SCOPE OF WORK

- 1 PROVIDE ALL NECESSARY LABOUR, MATERIAL, TOOLS, EQUIPMENT, DEVICES AS REQUIRED FOR A COMPLETE ELECTRICAL INSTALLATION AS SHOWN ON DRAWINGS AND AS SPECIFIED.

GENERAL

- 1 ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE GOVERNING BUILDING CODE AND ELECTRICAL CODE AND ALL APPLICABLE PROVINCIAL AND MUNICIPAL CODES, RULES AND REGULATIONS.
- 2 OBTAIN ALL PERMITS AND PAY FOR ALL FEES FOR THE ELECTRICAL INSTALLATION.
- 3 CO-ORDINATE WITH ALL OTHER TRADES TO AVOID CONFLICTS.
- 4 ELECTRICAL EQUIPMENT SHALL BE NEW AND OF THE TYPE SPECIFIED.
- 5 OBTAIN A CERTIFICATE OF INSPECTION AND APPROVAL FROM THE ELECTRICAL INSPECTION DEPARTMENT HAVING JURISDICTION OVER THE WORK. CERTIFICATION OF INSPECTION SHALL BE SUBMITTED TO THE ARCHITECT ON COMPLETION OF THE WORK.
- 6 REMOVE ALL DEBRIS FROM THE SITE AS IT OCCURS.
- 7 REPAIR AND TOUCH UP ANY DAMAGED AREAS THAT HAVE BEEN DAMAGED DURING CONSTRUCTION.
- 8 THE SATISFIED OPERATION OF ALL WORK AND APPARATUS INCLUDED AND INSTALLED UNDER THIS SECTION OF THE SPECIFICATION SHALL BE GUARANTEED.
- 9 REPLACE FORTHWITH AT NO ADDITIONAL COST TO THE OWNER, ANY PART WHICH MAY BE DEFECTIVE WITHIN A PERIOD OF TWELVE MONTHS AFTER THE FINAL ACCEPTANCE OF THE COMPLETE BUILDING, PROVIDED THAT SUCH FAILURE IS NOT DUE TO ANY IMPROPER USAGE OR ORDINARY WEAR AND TEAR.
- 10 NO CERTIFICATE GIVEN, PAYMENT MADE, PARTIAL OR ENTIRE USE OF THE EQUIPMENT BY THE OWNER, SHALL BE CONSTRUED AS ACCEPTANCE OF DEFECTIVE WORK.
- 11 CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING PRICE. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH SITE CONDITIONS, INCLUDING ANY EXISTING ELECTRICAL WIRING, DEVICES, OR EQUIPMENT WHICH MAY NEED TO BE RELOCATED TO ACCOMMODATE THIS PROJECT. ALL COSTS TO RELOCATE EXISTING EQUIPMENT TO BE INCLUDED IN BASE TENDER QUOTE.

MATERIAL AND INSTALLATIONS

A CONDUIT AND RACEWAY

- 1 RIGID STEEL CONDUIT: FOR ALL EXPOSED AND UNDERGROUND CONDUIT EXPOSED TO MECHANICAL DAMAGE (MIN 2")
- 2 EMT: INTERIOR POWER AND LIGHTING BRANCH CIRCUITS WHERE RUN CONCEALED ABOVE SUSPENDED CEILING, IN STUD WALLS, FURRED SPACES AND WHERE NOT EXPOSED TO MECHANICAL DAMAGE OR ABOVE 6" FROM FLOOR.
- 3 FLEXIBLE METALLIC CONDUIT: IN DRY LOCATIONS, CONNECTION TO TRANSFORMERS, (6" MAX) VIBRATING EQUIPMENT (24" MAX) AND TO RECESSED LIGHTING EQUIPMENT.
- 4 LIQUID TIGHT FLEXIBLE METALLIC CONDUIT: IN DAMP AND WET LOCATIONS FOR CONNECTION TO ALL PUMP MOTORS, SOLENOID VALVES, HVAC EQUIPMENT AND SIMILAR DEVICES SHALL BE MADE USING LIQUID TIGHT FLEXIBLE METALLIC CONDUIT. PROVIDE SEPARATE GROUND WIRE INDEPENDENT OF CONDUIT, RUN INSIDE CONDUIT AND BONDED AT BOTH ENDS TO ENCLOSURES. MAXIMUM LENGTH 24"
- 5 CONDUIT IN DIRECT CONTACT WITH EARTH TO BE RIGID PVC CONDUIT.
- 6 CONDUIT INSTALLATION
 - 1 CONDUIT SYSTEM SHALL BE INSTALLED CONCEALED UNLESS EXPOSED WORK IS INDICATED ON DRAWINGS.
 - 2 CONDUIT SYSTEMS SHALL BE ELECTRICALLY CONTINUOUS THROUGHOUT. INSTALL CODE SIZED, INSULATED, COPPER GREEN GROUNDING CONDUCTOR IN ALL CONDUIT RUNS PULLED WITH PHASE AND NEUTRAL CONDUCTORS.
 - 3 LOCATIONS OF CONDUIT RUNS SHALL BE PLANNED IN ADVANCE OF THE INSTALLATION AND CO-ORDINATED WITH THE DUCTWORK, PLUMBING, CEILING AND WALL CONSTRUCTION IN THE SAME AREAS AND SHALL NOT UNNECESSARILY CROSS OTHER CONDUITS OR PIPE, NOR PREVENT REMOVAL OF CEILING TILES OR PANELS NOR BLOCK ACCESS TO MECHANICAL OR ELECTRICAL EQUIPMENT.
 - 4 WHERE PRACTICAL, INSTALL CONDUITS IN GROUPS, IN PARALLEL FOR VERTICAL AND HORIZONTAL RUNS AND AT ELEVATIONS THAT AVOID NECESSARY OFFSETS.
 - 5 EXPOSED CONDUIT SHALL BE RUN PARALLEL OR AT RIGHT ANGLES TO THE CENTERLINES OF COLUMNS AND BEAMS.
 - 6 ALL RACEWAY SYSTEMS SHALL BE SECURED TO THE BUILDING STRUCTURES USING SPECIFIED FASTENERS, CLAMPS AND HANGARS SPACED ACCORDING TO CODE REQUIREMENTS.
 - 7 ALL FLOOR PENETRATIONS SHALL BE SEALED WATER-TIGHT, MAINTAIN FIRE RATINGS AS REQUIRED.
 - 8 FIRE SAFE ALL RATED WALL PENETRATIONS USING 3M LISTED FIRE-SAFE SEALANTS AND ASSEMBLIES.

B BOXES AND WIRING SERVICES

- 1 ALL OUTLETS SHALL FINISH FLUSH WITH BUILDING WALLS AND CEILING EXCEPT WHERE EXPOSED WORK IS CALLED FOR. THERE SHALL BE NO GAP BETWEEN BOX AND WALL OR CEILING MATERIAL. ANY OPENING BETWEEN BOX AND SURFACE SHALL BE CAULKED AIR-TIGHT.
- 2 INSTALL RAISED DEVICE COVERS ON ALL OUTLET BOXES AS REQUIRED TO FINISH FLUSH WITH SURFACE. COVERS SHALL BE OF A DEPTH TO SUIT THE WALL OR CEILING FINISH.
- 3 EXPOSED OUTLET BOXES AND BOXES IN DAMP OR WET AREAS SHALL BE CAST METAL WITH GASKETED CAST METAL COVER PLATES.
- 4 OUTLET BOXES SHALL BE INSTALLED AT THE LOCATIONS AND ELEVATIONS INDICATED ON THE DRAWINGS OR SPECIFIED HEREIN. MAKE ADJUSTMENTS TO LOCATIONS AS REQUIRED BY STRUCTURAL CONDITIONS AND TO SUIT CO-ORDINATION REQUIREMENTS.
- 5 OUTLET BOXES IN STUD WALLS AND PARTITION WALLS SHALL NOT BE MOUNTED BACK TO BACK NOR SHALL THROUGH WALL BOXES BE PERMITTED.
- 6 BOXES INSTALLED IN STUD WALLS SHALL BE EQUIPPED WITH BRACKETS DESIGNED FOR ATTACHING DIRECTLY TO THE STUDS OR SHALL BE MOUNTED ON HEAVY GAUGE GALVANIZED STEEL BOX SUPPORTS.
- 7 FIXTURE OUTLET BOXES INSTALLED IN SUSPENDED CEILINGS OF GYPSUM BOARD OR LATH AND PLASTER CONSTRUCTION SHALL BE MOUNTED TO 16 GAUGE METAL CHANNEL BARS ATTACHED TO MAIN CEILING RUNNERS.
- 8 FIXTURE OUTLET BOXES INSTALLED IN SUSPENDED CEILING SYSTEMS SUPPORTING ACOUSTICAL TILES OR PANELS SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURES ABOVE WHEREVER PENDANT MOUNTED FIXTURES ARE INSTALLED FROM THE BOX.

C CABLE AND WIRE

- 1 CONDUCTORS SHALL NOT BE INSTALLED IN CONDUIT UNTIL ALL WORK OF ANY NATURE THAT MAY CAUSE DAMAGE IS COMPLETED. CARE SHALL BE TAKEN IN PULLING CONDUCTORS THAT INSULATION IS NOT DAMAGED. U.L. AND C.S.A. APPROVED NON-PETROLEUM BAE AN INSULATING TYPE PULLING COMPOUND SHALL BE USED AS NEEDED.
- 2 ALL CABLES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND WARRANTY.

C CABLE AND WIRE - CONT

- 3 ALL ASPECTS OF SPLICING AND TERMINATING SHALL BE IN ACCORDANCE WITH CABLE MANUFACTURER'S PUBLISHED PROCEDURES.
 - 4 MAKE UP ALL SPLICES IN OUTLET BOXES WITH CONNECTORS AS SPECIFIED HEREIN WITH SEPARATE TAILS OF CORRECT COLOUR TO BE MADE UP TO SPLICE PROVIDED AT LEAST 6 INCHES OF TAILS PACKED IN BOX AFTER SPLICE IS MADE UP.
 - 5 ALL WIRE AND CABLE IN PANELS, TERMINAL CABINETS AND EQUIPMENT ENCLOSURES SHALL BE BUNDLED AND CLAMPED.
 - 6 MINIMUM WIRE SIZE SHALL BE # 12 AEG R90 COPPER.
 - 7 BX CABLE IS ACCEPTABLE IN INTERIOR WALLS AND FOR LIGHTING DROPS.
- D WIRING DEVICES**
- 1 SWITCHES
 - 1 SPECIFICATION GRADE, WHITE IN BACK OF HOUSE, BLACK IN FRONT OF HOUSE, TOGGLE FOR BACK OR SIDE WIRING, 20A 120V
 - 2 RECEPTACLES
 - 1 SPECIFICATION GRADE, CSA TYPE 5-15R 125V U GROUNDED WHITE IN BACK OF HOUSE, BLACK IN FRONT OF HOUSE.
 - 2 INSTALL VERTICALLY UNLESS OTHERWISE NOTED
 - 3 HUBBELL # 5262-1 OR EQUAL
 - 3 DIMMERS
 - 1 FLUSH MOUNTED TYPE, WHITE (1000 WATTS) IN BACK OF HOUSE, BLACK FOR FRONT OF HOUSE
 - 2 LUTRON 'NOVA' OR EQUAL
 - 4 COVERPLATES
 - 1 PLASTIC WHITE COVER PLATES IN BACK OF HOUSE, BLACK IN FRONT OF HOUSE
 - 2 W.P. DURABLE LEFT SPRING LOADED CAST ALUMINIUM COVER PLATE c/w GASKETS FOR W.P. DUPLEX RECEPTACLES AS NOTED.
 - 3 INSTALL SINGLE THROW SWITCHES WITH HANDLE IN 'UP' POSITION WHEN SWITCH CLOSED.
 - 4 INSTALL RECEPTACLES / SWITCHES VERTICALLY IN GANG TYPE OUTLET BOX WHEN MORE THAN ONE RECEPTACLE IS REQUIRED IN ONE LOCATION.

E PANELBOARDS

- 1 RATINGS: REFER TO PANEL SCHEDULES INDICATED ON DRAWINGS.
- 2 FINISH: ALL PAINTED STEEL WORK SHALL BE TREATED WITH A PRIMER COAT AND FINISH COAT OF STANDARD GREY OR TO MATCH WALL COLOUR.
- 3 PANELBOARDS TO HAVE FLUSH DOORS WITH TWO KEYS FOR EACH PANELBOARD (ALL KEYS TO BE ALIKE)
- 4 BUSSING: BUSSING SHALL BE RECTANGULAR CROSS SECTION FULL LENGTH IN PLATED ALUMINIUM. EACH PANELBOARD SHALL BE EQUIPPED WITH A GROUND BUS SECURED TO THE INTERIOR OF THE ENCLOSURE. THE BUS SHALL BE EQUAL TO THE PANELBOARD NEUTRAL BUS AND SHALL HAVE A SEPARATE LUG FOR EACH GROUND CONDUCTOR. NOT MORE THAN ONE CONDUCTOR SHALL BE INSTALLED PER LUG.
- 5 PANELBOARD DIRECTIONS SHALL BE TYPEWRITTEN, ARRANGED IN NUMERICAL ORDER AND INSTALLED INSIDE EACH PANEL DIRECTORY.
- 6 ACCEPTABLE MANUFACTURERS : SIEMENS, CUTLER HAMMER, SCHNEIDER.

F PROTECTIVE DEVICES

- 1 CIRCUIT BREAKERS: MOLDED CASE, BOLT-ON, THERMAL-MAGNETIC TYPE, 40 DEGREES C AMBIENT TEMPERATURE, COMPENSATED, FIXED MOUNTING WITH QUICK-MAKE AND QUICK BREAK SWITCHING MECHANISM MECHANICAL TRIP FREE FROM THE OPERATING HANDLE.
- 2 RATINGS: REFER TO DRAWINGS AND PANEL SCHEDULES FOR TRIP FRAME AND POLES REQUIRED.
- 3 MANUAL MOTOR STARTERS: FRACTIONAL H.P. 1 PHASE MOTORS SHALL BE THERMAL O.L. RELAY INTEGRAL WITH THE DISCONNECT.

G GROUNDING

- 1 ENCLOSURES OF EQUIPMENT, RACEWAYS AND FIXTURES SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDED. PROVIDED CODE-SIZED (UNLESS OTHERWISE INDICATED) COPPER, INSULATED GREEN EQUIPMENT GROUND WITH ALL BRANCH AND FEEDER CIRCUIT RUNS. EQUIPMENT GROUND SHALL ORIGINATE AT PANELBOARD GROUND BUS AND SHALL BE BONDED TO ALL SWITCH AND RECEPTACLE BOXES AND ELECTRICAL EQUIPMENT ENCLOSURES.

H LIGHTING FIXTURES

- 1 INSTALL FIXTURES AS INDICATED ON DRAWING WITH REQUIRED SEISMIC RESTRAINT TO COMPLY WITH GOVERNING CODES.
- 2 ALL FIXTURES PROVIDED BY THE OWNER AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

J TELEPHONE / DATA SYSTEMS

- 1 INCLUDE IN YOUR PRICE FOR A COMPLETE CONDUIT INSTALLATION SYSTEM FROM THE MAIN TELEPHONE BACKBOARD TO TEL / DATA OUTLETS. ALL CONDUITS TO BE c/w PULL STRING. ALL CABLES TO BE PULLED AS PER NEPTUNE SPECIFICATIONS AND CUT SHEETS PROVIDED. ALL CABLES TO BE RUN FROM G.C. SUPPLIED PATCH PANEL AND BIX BLOCKS AND TERMINATED IN RSA5 TYPE FACEPLATES.

K TESTING

- 1 UPON COMPLETION OF WORK, TURN ON ALL LOADS AND CHECK LOAD BALANCE OF FEEDER. IF REQUIRED, RECONNECT CIRCUITS TO BRING IMBALANCE TO WITHIN 10%.
- 2 SUBMIT LETTERS FROM MANUFACTURERS OF ALL SYSTEMS INDICATING THAT THEY HAVE BEEN CHECKED, TESTED AND VERIFIED THE RESPECTIVE SYSTEM AND ARE SATISFIED WITH THE METHODS OF INSTALLATION, CONNECTION AND OPERATION.
- 3 INFORM THE CONSULTANT WELL IN ADVANCE OF THE DATNESS TESTS ARE TO BE CARRIED OUT.
- 4 SUBMIT ALL TEST RESULTS IN DUPLICATE TO THE CONSULTANT FOR APPROVAL.

L MECHANICAL EQUIPMENT WIRING AND CONTROLS

- 1 ALL CONTROLS AND CONTROL WIRING IS TO BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE INDICATED. CONFIRM ALL INTERLOCKS BASED ON MECHANICAL DRAWINGS. REFER TO MECHANICAL DRAWINGS FOR ALL APPLICABLE SCHEMATIC DRAWINGS.

SYMBOL SCHEDULE

○	LUMINAIRE (SURFACE MOUNT)	--	□	OUTLET BOX	--
◻	LUMINAIRE (RECESS MOUNT)	--	—	HOME RUN	--
◐	LUMINAIRE (WALL MOUNT)	--	◻	JUNCTION BOX	--
—	STRIP FIXTURE (2', 3' OR 4')	--	◻	SUITE PANEL	+64" A.F.F.
◻	WRAP FIXTURE (1'x4' OR 2'x4')	--	▽	TELEPHONE OUTLET	+18" A.F.F.
—	TRACK LIGHT FIXTURE	--	▽	CATV OUTLET	+18" A.F.F.
\$	SINGLE POLE SWITCH (DECORA)	+46" A.F.F.	▽	COMBINATION OUTLET	2V INDICATES # OF VOICE OUTLETS 2D INDICATES # OF DATA OUTLETS +18" A.F.F.
\$	SENSOR SWITCH - SEE DRWG E1	+46" A.F.F.	▽	DATA OUTLET	+18" A.F.F.
\$	DIMMER SWITCH (DECORA)	+46" A.F.F.	⊗	SMOKE DETECTOR	--
⊗	DUPLEX RECEPTACLE	+18" A.F.F.	⊗	HEAT DETECTOR - RATE OF RISE	--
⊗	DUPLEX IG RECEPTACLE	+18" A.F.F.	⊗	BREAK GLASS STATION	--
⊗	DUPLEX GFCI RECEPTACLE	+18" A.F.F.	⊗	EMERGENCY LIGHT FIXTURE - BLACK	SEE DWG
⊗	DOUBLE DUPLEX RECEPTACLE	+18" A.F.F.	⊗	EMERGENCY LIGHT c/w BATTERY - BLACK	--
⊗	SPECIAL RECEPTACLE	+18" A.F.F.	⊗	F.A. GONG/ BELL - 10"	--
⊗	SINGLE PHASE MOTOR	--	⊗	EXIT SIGN (DIRECTION AND SIDES AS SHOWN)	--
⊗	THREE PHASE MOTOR	--	⊗	F/A STROBE/BELL COMBINATION	--
⊗	DISCONNECT SWITCH	--	⊗	F/A SPEAKER	--
⊗	MAGNETIC STARTER	--			

ISSUE	DATE	DESCRIPTION
	April 2, 13	ISSUED FOR CONSTRUCTION
2	Jan 15, 13	ELECTRICAL ADDENDUM # 2
1	Jan 15, 13	ELECTRICAL ADDENDUM # 1
C	Jan 11, 13	ISSUED FOR TENDER
B	Dec 14,12	ISSUED FOR BUILDING PERMIT
A	Dec 11,12	ISSUED FOR REVIEW

CONSULTANT

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AIG CONTROLS

CONSULTANT SEAL

CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE. DRAWINGS SHALL NOT BE SCALED.

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DRAWN BY APPROVED

PROJECT

EXISTING BUILDING ALTERATION FOR VISIONS

5756 IMPERIAL STREET
BURNABY, BC

DRAWING

SPECIFICATIONS & SYMBOLS

PROJECT NUMBER	DRAWING NUMBER
2012-45	E3 of 3
SCALE AS NOTED	
DATE Nov 2012	REVISION