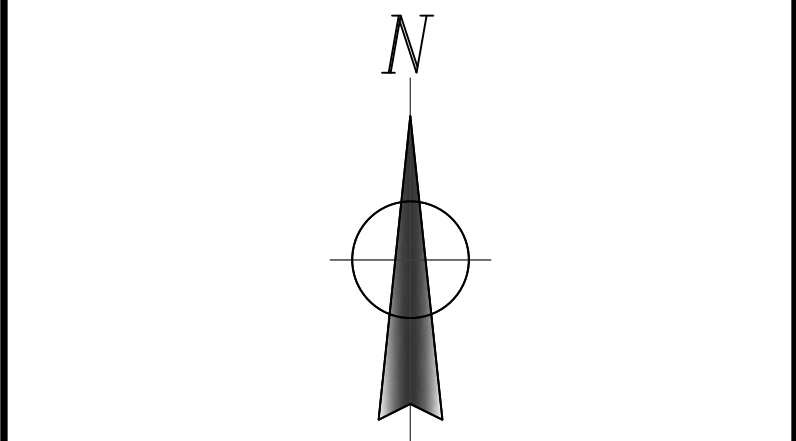
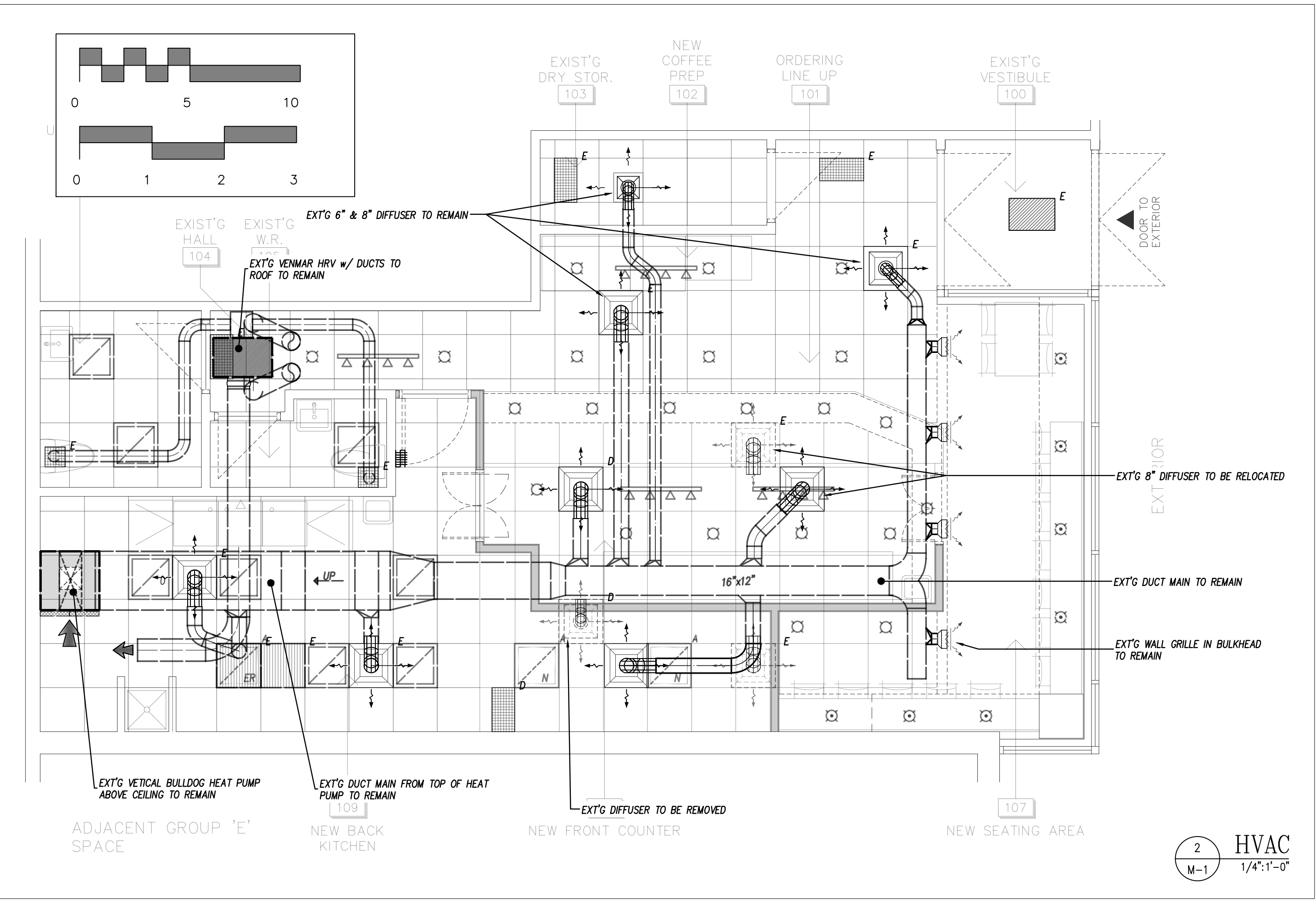


- SPECIFICATIONS**
- Comply with the OBC and local Codes and Bylaws. Contractor is reminded of his obligations under the Building Code Act (BCA) and Ontario Building Code (OBC).
 - General:
 - The current Ontario Building Code is to be considered the bare minimum for construction compliance levels and where the Act or the OBC is exceeded by the requirements of this document (drawings and/or specifications), this document shall govern unless revised in writing by the Engineer. Merely "Meeting the Code" will not be accepted as an argument to avoid provision of the mechanical systems as documented and the Contractor shall bear all and any costs associated with making the necessary revisions to the satisfaction of the Engineer.
 - Bekolay & Associates retain the copyright to all drawings and specifications created for this project and said works (both hard copy and CADD files) are not to be copied or distributed without consent. Costs for assimilation and/or distribution will be established upon written application to Bekolay & Associates for further copies.
 - Obtain all permits, make arrangements for inspections and effect repairs required by inspectors at no cost to the owner. Provide the consultant a Certificate of Approval from the inspecting authorities at completion of the work.
 - Examine the site and be aware of site conditions associated with this contract since extras related to site conditions will not be accepted.
 - Co-ordinate the work of this trade with the General Contractor for timely completion of each phase of construction. Do not cut structural elements without written authorization from the consultant.
 - Repair or replace, at no cost to the owner, any defect in workmanship or materials which appear within a period of one year from the date of substantial completion of the work. Pay for all damage resulting from the deficiency which occurs within the warranty period. Contractor shall not be held liable for anything attributable to acts of the owner or his agents. Co-ordinate the work of this trade with the General Contractor for timely completion of each phase of construction.
 - Equivalents and Alternates:
 - Manufacturer's names listed in these specifications set the standard for the material and energy efficiency requirements but are not intended to exclude other manufacturers from bidding with equivalent products provided they meet the performance and physical installation limitation/requirements.
 - Shop Drawings
 - Submit shop drawings and product data for all specified equipment or trim including but not limited to plumbing fixtures & trim, pumps, sprinkler heads.
 - Record Drawings
 - Record all changes as work progresses and as changes occur on a set of clean prints. This shall include changes to existing mechanical systems, control systems and low voltage control wiring.
 - Make available for reference purposes and inspection at all times.
 - Include Seismic Restraints for all mechanical equipment including piping, ductwork and equipment as required by OBC Part B, article 4.1.8.17 "Elements of Structures, Non-Structural Components and Equipment". Provide suitable pre-engineered systems and include the services of a professional structural engineer (registered in Ontario) to design, sign and seal drawings for all seismic restraints including permit approval from the Authority having jurisdiction.
 - Pipe Insulation:
 - Insulate all, domestic hot and cold potable water piping as follows:
 - Pre-formed fiberglass in 900mm sections with all service jacket sealed with aluminum tape or
 - Closed cell elastomeric foam meeting the required 25/50 smoke and flame spread ratings (Ammacell)
 - Thickness: (to ASHRAE 90.1, Table 6.8.3A)

Pipe Size	Heating	DHW	DCW
NPS 1/2" to 1-1/4"	1-1/2"	1"	1"
 - Jacket: Provide white, preformed PVC jacket for all exposed insulated pipe.
 - Hangers: all be outside of jacket.

- Water Piping:
 - Potable Water Piping:
 - type 'M' copper with 95-5 lead free solder joints and fittings
 - Isolation valves: ball valve type with adapters as required
 - Rigidly fasten water supplies to the internal wall structure and secure with wing back elbow or similar fastening. Limit exposed piping through wall and conceal with chrome escutcheon, terminate with chrome plated straight or angle ball valve. Extend to fixture with braided stainless steel supplies.
 - Plumbing Piping
 - Plumbing and vent piping above grade:
 - NPS 1-1/2" and smaller DWV copper with solder joints
 - NPS 2" and larger shall be cast iron with MJ neoprene couplings
 - System 15-50 PVC DWV solvent weld pipe and fittings with suitable fire stopping. Note regular PVC is not acceptable and shall not be installed.
 - Extend vent piping from all plumbing fixtures to existing services
 - Provide plumbing and vent connections to all fixtures with chrome plate traps with cleanouts. Brass or plastic not acceptable.
- Plumbing Fixtures: Install fixtures supplied with the kitchen equipment
- Duct Work:
 - Existing heat pump and HRV to remain with ductwork. Modify existing branch ducts to relocate diffusers as indicated
- Fire Protection: Sprinklers
 - Modify existing sprinkler system as indicated in compliance with NFPA 13. Provide the Owner with 24 hours notice before draining system to make modifications.
 - Sprinkler piping shall be schedule 40 black with malleable iron screwed fittings.
 - Fittings and joints to ANSI/NFPA 13 & 14, Ferrous: screwed, welded, flanged or roll grooved.
 - Pipe hangers: ULC listed for fire protection services.
 - Heads: Tiled Ceilings: Semi-recessed chrome



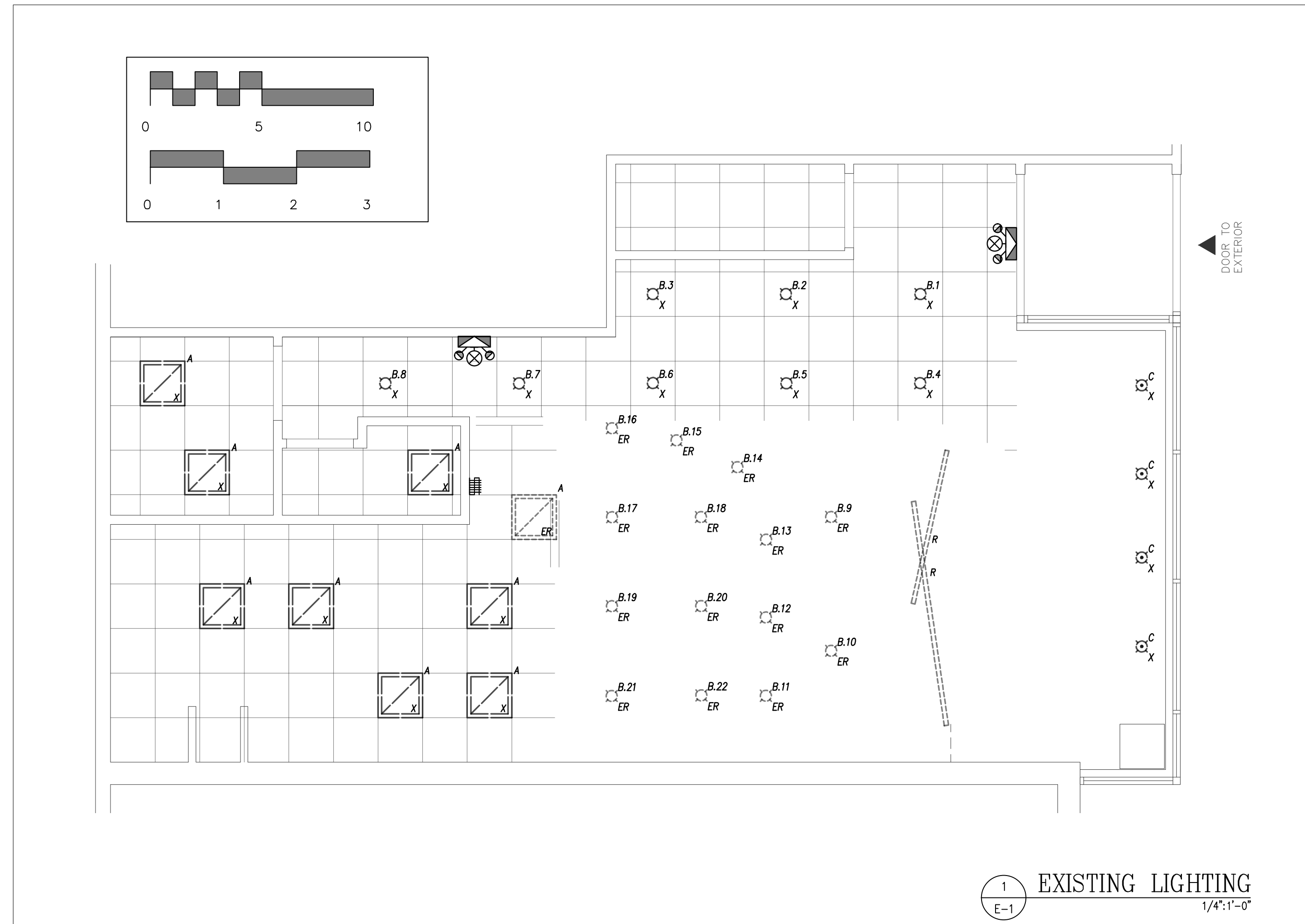
NO.	REVISIONS	DATE
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1.	ISSUED FOR PERMIT	08-MAR-2019

USE OF THESE DRAWINGS IS RESTRICTED SOLELY TO THE CONSTRUCTION FOR WHICH THEY WERE DEVELOPED. BEKOLAY GAMBLE AND ASSOCIATES LTD. ASSUME NO RESPONSIBILITY FOR ANY SUBSEQUENT USE. DO NOT SCALE THE DRAWINGS BUT RESPECT ANY DIMENSIONS SPECIFICALLY IDENTIFIED IN NOTES OR TEXT. ALL CONTRACTORS MUST VISIT THE SITE AND ARE RESPONSIBLE FOR VERIFYING ANY AND ALL DIMENSIONS THAT RELATE TO THEIR WORK. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE CONSULTANT.

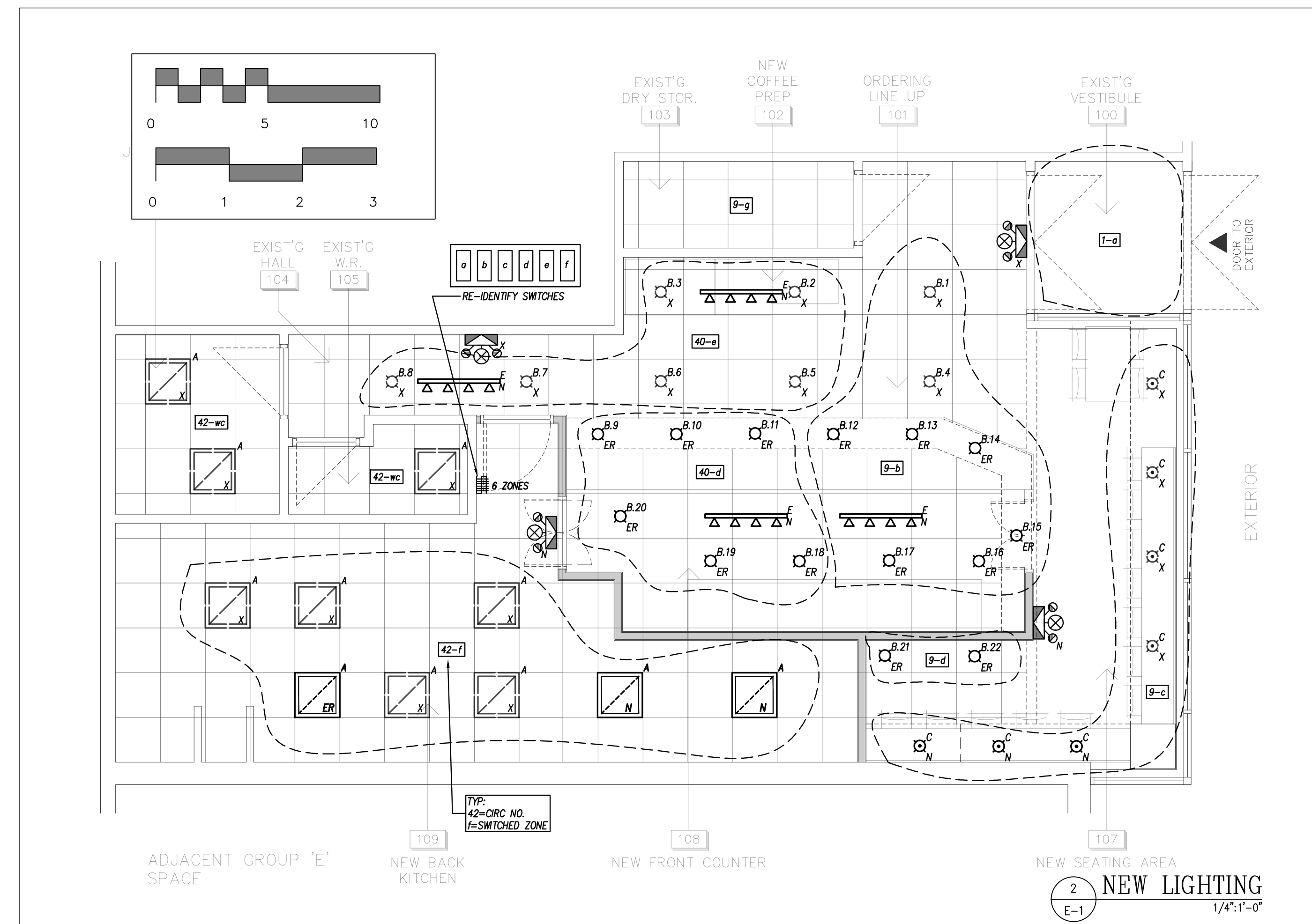
Bekolay & Associates Ltd.
Consulting Engineers
300-187 WOODWARD DR. OTTAWA
ON K1N 6K4 CANADA TEL: 613-722-0264
FAX: 613-722-0264

PROJECT: CINNAHOLIC
900 Exhibition Way
DRAWING: HVAC, PLUMBING & FIRE PROTECTION

DATE	SCALE
8-Mar-19	AS SHOWN
DRAWN BY: JRB	DESIGNED BY: JRB
JOB NO.: 2019-02	CHECKED BY: JRB
DATE: 08-MAR-2019	DRAWING NO.:

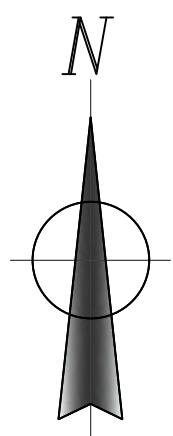


1 EXISTING LIGHTING
1/4"=1'-0"



2 NEW LIGHTING
1/4"=1'-0"

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
POWER	
	15A-120V DUPLEX RECEPTACLE #12" A.F.F. UNLESS OTHERWISE NOTED. WATERPROOF OUTLETS IN KITCHEN AT 42" A.F.F. UNLESS FOR UNDER COUNTER EQUIPMENT.
	20A-120V DUPLEX
	DIRECT CONNECTION
	MOTOR CONNECTION
	DISCONNECT SWITCH
	POWER PANEL - SURFACE
COMMUNICATIONS/DATA	
	TELEPHONE
	DATA
	COMBINATION TELEPHONE & DATA
EMERGENCY CALL	
	PUSH BUTTON/PULL CORD
	EMERGENCY SIGNAL
	EMERGENCY SIGNAL REMOTE
ACCESSIBLE DOOR CONTROL	
	DOOR ACTIVATOR/PUSH BUTTON
LIGHTING CONTROL	
	LIGHTING USER CONTROL - WALL MOUNTED
	OCCUPANCY SENSOR - WALL MOUNTED
	OCCUPANCY SENSOR - CEILING MOUNTED
	DAYLIGHT SENSOR - WALL MOUNTED
	DAYLIGHT SENSOR - CEILING MOUNTED
	ROOM LIGHTING CONTROLLER
	PHOTOCELL SENSOR
	TIME CLOCK CONTROLLER
	LIGHT SWITCH
FIRE ALARM	
	FIRE ALARM PULL STATION
EMERGENCY LIGHTING	
	COMBINATION EMERGENCY EXIT LIGHT WITH 30 MINUTE BATTERY 2x6w LED LIGHTS
ELECTRIC HEAT	
	ELECTRIC RADIANT PANEL HEATER
	LINE VOLTAGE (120V) TSTAT (WALL MTD)
NOTES	
X	DENOTES EXISTING TO REMAIN
ER	DENOTES EXISTING TO BE RELOCATED
R	DENOTES EXISTING TO BE REMOVED
N	NEW
WP	WEATHER PROOF
GF1	GROUND FAULT INTERRUPT
	REVISION NOTE 1



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1.	ISSUED FOR PERMIT	08-MAR-2019
NO.	REVISIONS	DATE

LIGHTING FIXTURE SCHEDULE								
TYPE	DESCRIPTION	BULB			FIXTURE		TOTAL WATTS	NOTES
		DESCRIPTION	QANTITY/FIXTURE	WATTS/BULB	LUMENS/BULB	WATTS/FIXTURE		
A	2'x2' RECESSED FIXTURE					11		
B	RECESSED POTLIGHT					22		
C	PENDANT					7		
D	NOT USED							
E	NEW 4' 120V TRACK					4		

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7-Mar-19

PROJECT CINNAHOLIC
900 Exhibition Way
DRAWING ELECTRICAL
LIGHTING

DATE 8-Mar-19	SCALE AS SHOWN
DRAWN BY RVH	DESIGNED BY C.L. WOOD
JOB NO. 2019-02	CHECKED BY CLW
DRAWING NO. 08-MAR-2019	

