



**UNITED ENGINEERING INC**  
Mechanical and Electrical Consulting Engineers

3645 Keele St. #105  
Toronto, ON, M3J 1M6  
Email: info@u-eng.ca  
T: (416) 398-1999  
F: (416) 398-1933

## SITE INSTRUCTION

PROJECT: HAMPTON MANOR  
25 BAKER HILL BLVD  
STOUFFVILLE, ONTARIO

PROJECT NO #: 14-016

CONTRACT: Electrical

DATE October 23, 2018

SITE INSTRUCTION NO.: E-31

THIS SITE INSTRUCTION IS NOT TO BE CONSTRUED AS A CHANGE IN THE CONTRACT PRICE, BUT IS ISSUED FOR CLARIFICATION ONLY. IF A CHANGE IN CONTRACT PRICE IS PERCEIVED, PROVIDE AN ITEMIZED BREAKDOWN OF ANY EXTRAS OR CREDITS WITHIN SEVEN (7) WORKING DAYS.

**PURPOSE:** Revise as per ID drawings.

**1.0 Reference Drawings E-2A (Parking P1 Level A - Electrical) Issued**

1.1 Revise: Lighting fixture layout as shown.

**2.0 Reference Drawings E-3B (Ground Floor Plan B - Electrical) Issued**

2.1 Add: Two type 'R5' lighting fixtures as shown.

PREPARED BY:

Susan Pan  
Susan Pan  
Electrical Department

ISSUED TO ROYAL PINE HOMES,  
Cinzia Caruso, Cinzia@royalpinehomes.com;  
Vince Staffieri, vince@royalpinehomes.com  
FOR DISTRIBUTION TO ALL AFFECTED PARTIES.

FOR CONTINUATION REFER TO DWG. E-2B

#### KEY NOTES:

- WHEN CONNECTING GARAGE LIGHTS TO "GEC" EACH SENSOR TO BE AS A LIGHT BAY FOR NORMAL LIGHTS. EMERGENCY LIGHTS NOT CONNECTED TO (TYPICAL)
- CO AUDIO/VISUAL INDICATOR
- SMOKE DETECTOR ELEVATOR RECALL CO-ORDINATE WITH ELEVATOR CONTRACTOR
- 20A TRISORTER CONTROL PANEL
- 20A COMPACTOR TRISORTER FED FROM DP24
- G/H DOOR OPERATOR FED FROM DPEN21
- DO NOT ENTER SIGNAGE INTERCONNECTED TO FIRE ALARM ECN-2
- G/H DOOR CONTROL PANEL TO BE INTERCONNECTED TO FIRE ALARM SYSTEM TO OPEN UPON ACTIVATION OF FIRE ALARM
- WIRELESS RECEIVER
- IRRIGATION PUMP "P-X" COORDINATE EXACT LOCATION ON SITE WITH LANDSCAPE DESIGNER (X HP X/V/60) FED FROM XXX
- 15A GFI RECEPTACLE FOR THE IRRIGATION CONTROLLER COORDINATE EXACT LOCATION ON SITE WITH LANDSCAPE DESIGNER
- 1" CONDUIT C/W BULL STRING FROM THE IRRIGATION CONTROLLER TO THE WATER SUPPLY POINT OF CONNECTION OUTSIDE THE BUILDING. COORDINATE EXACT LOCATION ON SITE WITH LANDSCAPE DESIGNER (TYPICAL)
- SPARE
- SPARE
- VANDAL PROOF SANITARY SUMP PIT C/W "P-8" (DUPLEX) CONTROL PANEL C/W PADLOCKABLE WIRE CAGE. REFER TO DETAIL FED FROM DPW2
- VANDAL PROOF STORM SUMP PUMP C/W "P-9" (DUPLEX) CONTROL PANEL C/W PADLOCKABLE WIRE CAGE. REFER TO DETAIL FED FROM DPW2
- GARAGE EXHAUST FAN "T-11" (5HP 600/3/60) PROVIDE VANDAL PROOF CONTROL EQUIPMENT TO BE INTERLOCKED WITH CO SYSTEM FED FROM DPW2 (TYPICAL FOR 3)
- LIGHTING CONTROL TO BE INTERLOCKED WITH THE OPERATION OF THE EXHAUST FAN (TYPICAL IN LOCKERS) REFER TO DETAIL FED FROM ECN-15
- LOWER STAIR PRESSURIZATION FAN C/W DUCT SMOKE DETECTOR AND FIRE ALARM ZONE EB-6 (STAIR A) EB-8 (STAIR B) EB-10 (STAIR C)
- INSULATE AND ELECTRICALLY TRACE EXPOSED PIPING FED FROM PANEL "ET" (TYPICAL)
- DRUM DRIP ELECTRICALLY TRACED & INSULATED FED FROM PANEL "ET" (TYPICAL)
- TOP OF STAIR SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE
- 20W NON FREEZE HOSE BIBB INSULATE & ELECTRICALLY TRACE EXPOSED PIPING THRU OUT TO BE FED FROM PANEL "ET" (TYPICAL)
- GFI OUTLET FOR WATER SOFTENER EXACT LOCATION TO BE CONFIRMED ON SITE
- VERTICAL STORM PIPES. INSULATE & ELECTRICALLY TRACE. FED FROM PANEL "ET".

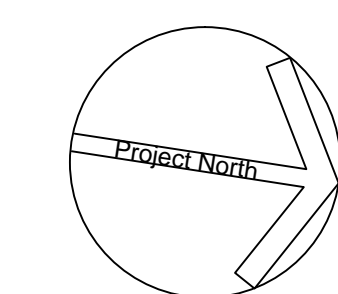
#### NOTES:

- ALL INSULATE AND ELECTRICALLY HEAT TRACING TO BE READ IN CONJUNCTION WITH MECHANICAL AND SPRINKLER DRAWINGS.
- POWER REQUIREMENT FOR IRRIGATION PUMP "P-X" TBC BY LANDSCAPE DESIGNER.

NO.	BY	DESCRIPTION	DATE
10	SP	REVISED AS PER SI E-31	2018-10-23
09	CM	REVISED AS PER SI E-16	2017-12-18
08	CM	REVISED AS PER SI E-14	2017-11-17
07	CM	REVISED AS PER SI E-10	2017-09-12
06	CM	REVISED AS PER SI E-3	2017-08-11
05	CM	ISSUED FOR CONSTRUCTION	2017-08-09
04	CM	PROGRESS FOR CONSTRUCTION	2017-07-18
03	CM	ISSUED FOR PERMIT	2016-12-28
02	CM	REVISED AS PER ISA COMMENTS AND FOR CLARIFICATION	2016-05-19
01	CM	ISSUED FOR TENDER	2016-03-15

#### REVISIONS

This drawing, is an instrument of service, is provided by and is the property of United Engineering Inc. The contractor must verify and accept responsibility for all dimensions and conditions on site and must notify United Engineering Inc. of any discrepancy before proceeding. United Engineering Inc. is not responsible for the accuracy of Architectural, structural, interior design, etc. on this drawing. Refer to the appropriate trade drawings before proceeding with any work. Installation must conform to all applicable codes and requirements of the authorities having jurisdiction. This drawing is not to be scaled, all symbols are graphic representations only.



**United Engineering Inc.**  
Mechanical Electrical Consulting Engineers  
3645 Keele Street, Suite 105,  
Toronto, Ontario, M3J 1M6  
Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE  
**PARKING P1 LEVEL - A  
ELECTRICAL**

PROJECT  
**PROPOSED RESIDENTIAL DEVELOPMENT  
25 BAKER HILL BLVD.**

**ROYAL PINE HOMES  
STOUFFVILLE, ONTARIO**

DRAWN	CM	CHECKED	MG	SCALE	1:100
DATE	SEPT. 2015	PROJECT	14-016	DRAWING	E-2A
				OF	12

FOR CONTINUATION REFER TO DWG. E-3A



### SUITES' KEY NOTES (TYPICAL)

- DOOR CONTACT
- SUITE INTRUSION ALARM AND KEYPAD WITH DIGITAL DISPLAY
- IN SUITE TELEPHONE/TV COMBO DISTRIBUTION PANEL
- CEILING MOUNTED FIRE ALARM COMBINATION SPEAKER/STROBE LIGHT
- 120V U-GROUND DUPLEX RECEPTACLE FOR GENERAL PURPOSES
- 120V U-GROUND DUPLEX RECEPTACLE WITH ONE HALF SWITCH CONTROLLED
- WALL MOUNTED TELEPHONE OUTLET
- 120V, 15A, RECEPTACLE FOR FRIDGE
- 120V, 20A, 1-SLOT RECEPTACLE MOUNTED ABOVE COUNTER TOP (ALL RECEPTACLES LOCATED WITHIN 1.5M OF KITCHEN SINKS ALONG THE WALL BEHIND THE COUNTERS SHALL BE PROTECTED BY GFI BREAKERS OF THE CLASS A TYPE)
- UNDER COUNTER LIGHTING TYPE TO BE CONFIRMED BY CLIENT
- 250V, 18, 4W, 50A, RECEPTACLE FOR RANGE, CONNECT WITH 3/8" BX OR 3/8" THW-19MM CONDUIT
- RECEPTACLE FOR KITCHEN MICROWAVE AND EXHAUST FAN
- 120V U-GROUND DUPLEX RECEPTACLE FOR DISHWASHER
- WALL MOUNTED COMBINATION TV/TELEPHONE OUTLET
- CEILING MOUNTED FIRE ALARM SPEAKER
- CEILING MOUNTED 120V SMOKE ALARM/DETECTOR (FOR 1ST, 2ND, 3RD, 4TH AND 7TH FLOORS)
- ALL DETECTORS WITHIN SAME SUITE TO BE INTERCONNECTED AND HAVE A VISUAL SIGNALING COMPONENT IN ACCORDANCE WITH CBC
- DIRECT CONNECTION FOR VERTICAL FAN COIL UNIT REFER TO MECHANICAL DRAWING FOR MORE DETAILS
- 120V U-GROUND DUPLEX GFI RECEPTACLE FOR WASHROOM
- 120V, 15A, RECEPTACLE FOR WASHER
- 250V, 10, 4W, 30A, RECEPTACLE FOR DRYER, CONNECT TO 3/8" BX OR 3/8" THW-19MM CONDUIT
- WALL MOUNTED TV OUTLET
- DIRECT CONNECTION FOR DRYER EXHAUST FAN
- DIRECT CONNECTION FOR WASHROOM EXHAUST FAN
- FLUSH MOUNTED SUITE SERVICE PANEL, SEE DRAWING E-16 FOR SUITE PANEL SCHEDULE
- 120V U-GROUND DUPLEX GFI WEATHER PROOF RECEPTACLE IN BALCONY (TYPICAL FOR 1ST FLOOR AND EXTERIOR BALCONY ONLY)
- 120V U-GROUND DUPLEX WEATHER PROOF RECEPTACLE IN BALCONY (TYPICAL FOR 2ND TO 7TH FLOORS)

### NOTES:

ALSO REFER TO TYPICAL SUITES NOTES ON DRAWING E-9B. (ALL RECEPTACLES SHALL BE PROTECTED BY ARC-FAULT INTERRUPTERS)

### GENERAL KEY NOTES

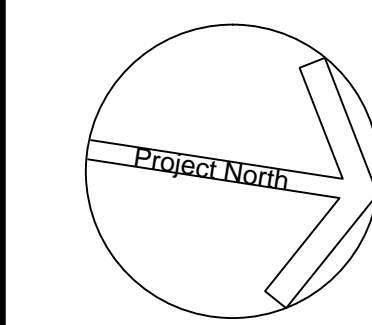
- JUNCTION BOX FOR TRI-SORT GARBAGE SYSTEM
- ENTERPHONE PANEL C/W TIE INTO BUILDING CCTV SYSTEM, CARD READER, INTERCOM, AND SYSTEM DIALER
- CACF FIRE ALARM CONTROL PANEL, FED FROM DPE2
- KEY SWITCH ELEVATOR RECALL CO-ORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR
- FIRE ALARM MASTER OPERATION SWITCH FOR FIRE DEPARTMENT MASTER CONTROL, FED FROM ECN-1.3
- CONFIRM POWER AND COMMUNICATION REQUIREMENTS AT CONCIERGE DESK WITH CLIENT, PROVIDE 4x2" CONDUIT TO COMMUNICATION ROOM
- BUILDING STATUS ANNUNCIATOR PANEL
- EMERGENCY BUTTON C/W INTERCONNECTED TO CONCIERGE
- DOOR HOLD OPEN DEVICE INTERCONNECTED TO FIRE ALARM SYSTEM TO RELEASE UPON ACTIVATION OF FIRE ALARM SYSTEM INTERCONNECTED TO LOCALIZED SMOKE DETECTORS
- TOP OF STAIR SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE
- GFI WATERPROOF BRD RECEPTACLE TO BE INSTALLED AT LEAST 1M AWAY FROM GAS CONNECTION, COORDINATE EXACT LOCATION ON SITE (TYPICAL FOR 2)
- FIREPLACE 'S' CONTROL REQUIREMENT AND LOCATION TBC
- FRIDGE C-32
- DISHWASHER C-42
- SPLIT COUNTER RECEPTACLES C-34/36
- SPLIT COUNTER RECEPTACLES C-38/40
- NO USE
- MICRO/FAN C-46
- STOVE C-48/50
- SPLIT SYSTEM E-8 (STORAGE) M-42/44
- SPLIT SYSTEM E-8 (WC) M-46/48
- SPLIT SYSTEM E-8 (AMENITY) M-50/52
- SPLIT SYSTEM E-8 (AMENITY) M-54/56
- BASEBOARD HEATER M-23
- BASEBOARD HEATER M-25
- COVE LIGHTING 'LD-01' C-4
- CACF ROOM IS REQUIRED TO CONTAIN THE FOLLOWING CONTROLS:
  - A MEANS TO CONTROL THE VOICE COMMUNICATION SYSTEM
  - MEANS TO INDICATE AUDIBLE AND VISUAL ALARM SIGNALS
  - MEANS TO INDICATE VISUALLY THAT ELEVATORS ARE ON EMERGENCY RECALL
  - MEANS TO TRANSMIT ALARM SIGNALS TO THE FIRE DEPARTMENT
  - MEANS TO RELEASE HOLD-OPEN DEVICES
  - MEANS TO MANUALLY ACTIVATE ALARM SIGNALS
  - MEANS TO SILENCE ALARM SIGNALS
  - MEANS TO COMMUNICATE WITH EVERY ELEVATOR CAR
  - MEANS TO INDICATE VISUALLY INDIVIDUAL SPRINKLER SYSTEM WATER FLOW SIGNALS
  - A SWITCH TO SILENCE THE AUDIBLE PORTION OF A SUPERVISORY SIGNAL OR A TROUBLE SIGNAL
  - CONTROLS TO STOP AIR HANDLING SYSTEMS
  - CONTROLS TO INITIATE EMERGENCY PRESSURIZATION AIR SUPPLIES
  - CONTROLS TO OPERATE POWERED DOOR OPERATORS AND/OR MOTORIZED FIRE DAMPERS FORMING PART OF A PRESSURIZATION/RELIEF SYSTEM
- CONFIRM ALL DIMENSIONS OF LIGHTING FIXTURES ON SITE WITH CLIENT PRIOR TO ROUGH-IN
- MOTORIZED DAMPER TO BE INTERCONNECTED WITH LOWER PRESS FAN AND RELEASED UPON THE ACTIVATION OF FIRE ALARM (TYPICAL FOR 6)

1. ELECTRICAL DRAWINGS TO BE READ IN CONJUNCTION WITH THE INTERIOR DESIGNER'S DRAWINGS IN AREAS SUCH AS LOBBY, AMENITY, MANAGEMENT OFFICE, MAIL, CONCIERGE AND CORRIDORS. REFER TO THE INTERIOR DESIGNER'S DRAWINGS FOR EXACT LOCATION, REQUIREMENTS, MOUNTING HEIGHT AND LIGHTING SPECIFICATION.

NO.	BY	DESCRIPTION	DATE
16	SP	REVISED AS PER SI E-31	2018-10-23
15	SP	REVISED AS PER SI E-28	2018-08-10
14	SP	REVISED AS PER SI E-26	2018-07-10
13	SP	REVISED AS PER SI E-21	2018-03-22
12	SP	REVISED AS PER SI E-18	2018-03-08
11	CM	REVISED AS PER SI E-17	2017-12-19
10	CM	REVISED AS PER SI E-15	2017-11-23
09	CM	REVISED AS PER SI E-10	2017-09-12
08	CM	REVISED AS PER SI E-4	2017-08-17
07	CM	REVISED AS PER SI E-3	2017-08-11
06	CM	ISSUED FOR CONSTRUCTION	2017-08-09
05	CM	PROGRESS FOR CONSTRUCTION	2017-07-18
04	CM	ISSUED FOR PERMIT	2016-12-28
03	CM	REVISED AS PER ADD E-1	2016-12-12
02	CM	REVISED AS PER ESA COMMENTS AND FOR CLARIFICATION	2016-05-19
01	CM	ISSUED FOR TENDER	2016-03-15

### REVISIONS

This drawing is an instrument of service, is provided by and is the property of United Engineering Inc. The contractor must verify and accept responsibility for all dimensions and conditions on site and must notify United Engineering Inc. of any discrepancy before proceeding. United Engineering Inc. is not responsible for the accuracy of Architectural, structural, interior design, etc. on this drawing. Refer to the appropriate trade drawings before proceeding with any work. Installation must conform to all applicable codes and requirements of the authorities having jurisdiction. This drawing is not to be scaled, all symbols are graphic representations only.



**United Engineering Inc.**  
Mechanical/Electrical Consulting Engineers  
3345 Reels Street, Suite 105,  
Toronto, Ontario, M3J 1W6  
Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE  
**GROUND FLOOR PLAN - B  
ELECTRICAL**

PROJECT  
**PROPOSED RESIDENTIAL DEVELOPMENT  
25 BAKER HILL BLVD.**

**ROYAL PINE HOMES  
STOUFFVILLE, ONTARIO**

DRAWN	CM	CHECKED	MG	SCALE	1:75
DATE	SEPT. 2015	PROJECT	14-016	DRAWING	E-3B
				OF	12