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ADDENDUM

PROJECT: Forestside Estates
Attmar & Palleschi Drive
Brampton, Ontario

PROJECT NO.: 18-017

CONTRACT: Electrical

DATE: June 15, 2020

ADDENDUM NO. E-2

CONTRACTORS ARE TO REVIEW ALL CHANGES, DELETIONS AND ADDITIONS TO THE WORK LISTED IN THIS DOCUMENT AND THE REVISED DRAWINGS AND INCORPORATE THESE ITEMS IN THE TENDER PRICE.

PURPOSE: To suit architecture, sprinkler system changes and Mech Addendum M-4.

1.0 Reference Drawings E-1 (Site Plan - Electrical) Issued

1.1 Revise: Site lighting fixture layout as shown.

**2.0 Reference Drawings E-2A (Parking Level Part A - Electrical) Issued
E-2B (Parking Level Part B - Electrical)
E-2C (Parking Level Part C - Electrical)**

2.1 Revise: Electrical layout to suit latest arch drawings as shown.

**3.0 Reference Drawings E-3 (Ground Floor - Electrical) Issued
E-4 (2nd Floor- Electrical)
E-5 (3rd Floor- Electrical)
E-6 (4th Floor- Electrical)
E-7 (Roof Plan- Electrical)**

3.1 Revise: Electrical layout to suit latest arch drawings as shown

4.0 Reference Drawings E-8 (Typical Suite Layout - Electrical) Issued

4.1 Revise: Typical suite layout as shown.

5.0 Reference Drawings E-9A/9B (Details A & B - Electrical) Issued

5.1 Revise: Lighting fixture schedule and CO monitor system note as shown.

Project #17-009
91 Broadway Avenue

6.0 Reference Drawings E-10 (Risers - Electrical) Issued

6.1 Revise: Riser diagram as shown.

7.0 Reference Drawings E-11 (Fire Alarm System - Electrical) Issued

7.1 Revise: Fire alarm schedule as shown.

8.0 Reference Drawings E-12 (Single Line Diagram - Electrical) Issued

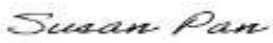
8.1 Revise: Single line diagram as shown.

9.0 Reference Drawings E-13 (Panel Schedule - Electrical) Issued

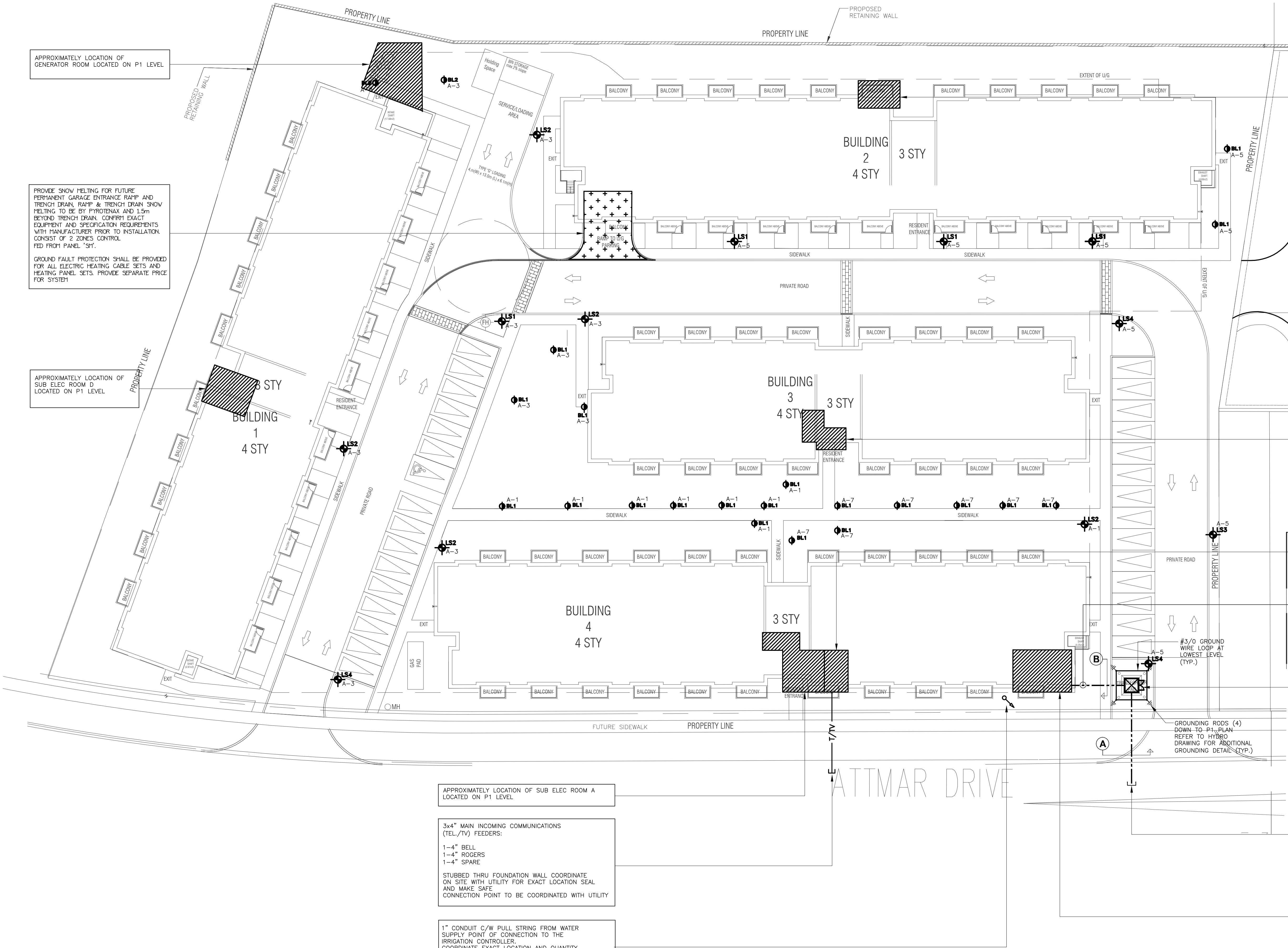
9.1 Revise: Panel schedules as shown.

Note: All drawings no bubble edition.

PREPARED BY: _____


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Electrical Department

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FOR DISTRIBUTION TO ALL AFFECTED PARTIES.



LEGEND	
○	INCANDESCENT LIGHTING FIXTURE CEILING AND WALL MOUNTED RESPECTIVELY
⊙	AS ABOVE ONLY CONNECTED TO EMERGENCY SUPPLY
□	FLUORESCENT LIGHTING FIXTURE CEILING MOUNTED
⊞	AS ABOVE ONLY CONNECTED TO EMERGENCY SUPPLY
—	EXISTING LIGHTING FIXTURE TO BE RELOCATED
—	EXISTING LIGHTING FIXTURE TO BE REMOVED
—	TRACK LIGHTING - TYPE PER SCHEDULE
—	FLUORESCENT STRIP LIGHT
⊙	CEILING OR WALL MTD ILLUMINATED EXIT SIGN, SHOULD AREA INDICATES ILLUMINATED PANEL, GREEN RUNNING MAN PICTOGRAM COMPLY WITH 2012
⊙	EXTERIOR LIGHTING STANDARD AS PER SCHEDULE
⊙	EXTERIOR LIGHTING STANDARD AS PER SCHEDULE
⊙	120V U-GROUND DUPLEX RECEPTACLE
⊙	120V U-GROUND QUAD RECEPTACLE
⊙	120V U-GROUND DUPLEX GFI RECEPTACLE
⊙	120V 20A T-SLOT RECEPTACLE
⊙	120V U-GROUND DUPLEX RECEPTACLE WITH ONE HALF SWITCH CONTROLLED
⊙	250V 18 4W 30A RECEPTACLE, CONNECT WITH 3/8" BX OR 3/8" THW-19MM CONDUIT
⊙	250V 18 4W 30A RECEPTACLE, CONNECT WITH 3/8" BX OR 3/8" THW-19MM CONDUIT
⊙	SINGLE RECEPTACLE, VOLTAGE AND RATING AS SHOWN ON DRAWING
⊙	WALL MOUNTED MOVABLE PARTITION FEED POINT
⊙	FLOOR MOUNTED MOVABLE PARTITION FEED POINT
⊙	ANY OF THE ABOVE DEVICES MOUNTED ABOVE COUNTER TOP OR AS INSTRUCTED ON SITE
⊙	DUPLEX RECEPTACLE FLOOR MOUNTED
⊙	DUPLEX RECEPTACLE CEILING MOUNTED
⊙	DUPLEX RECEPTACLE MOUNTED IN MILLWORK
⊙	DATA OUTLET FLOOR MOUNTED
⊙	VOICE/DATA OUTLETS MOUNTED IN MILLWORK
⊙	PAC-POLE
⊙	CEILING OR WALL MOUNTED JUNCTION BOX
⊙	PHOTO ELECTRIC CELL
⊙	SINGLE POLE, SINGLE THROW TOGGLE SWITCH WITH ONE, TWO AND THREE GANG COVERS/PLATES
⊙	THREE-WAY SWITCH
⊙	FOUR-WAY SWITCH
⊙	WAXING TIME SWITCH 120V/120W/2W (PARAGON FF51-0, 30 MINUTES), EXCEPT AS NOTED
⊙	SWITCH WITH PILOT LIGHT
⊙	DIMMER SWITCH, 1500W RATED, PROVIDE DIMMING BALLAST FOR FLUORESCENT
⊙	LOW VOLTAGE SWITCH
⊙	24V SWITCH
⊙	FAN SWITCH
⊙	KEY SWITCH
⊙	MASTER OPERATION SWITCH
⊙	OCCUPANCY SENSORS FOR LIGHTING CONTROL
⊙	CEILING MOUNTED OCCUPANCY SENSORS
⊙	WALL MOUNTED OCCUPANCY SENSORS
⊙	PHOTOCELL SENSOR
⊙	DIRECT CONNECTION OUTLET AS NOTED
⊙	SINGLE PHASE MOTOR, HP (KW) AS NOTED
⊙	THREE PHASE MOTOR, HP (KW) AS NOTED
⊙	MANUAL MOTOR STARTER
⊙	MAGNETIC MOTOR STARTER
⊙	CONTACTOR OR STARTER
⊙	CONTACTOR OR STARTER
⊙	DISCONNECT SWITCH, SIZE AS NOTED
⊙	THERMOSTAT SUPPLIED BY OTHERS, INSTALLED BY DIV. 16
⊙	LOW LIMIT THERMOSTAT C/W FIRE ALARM TROUBLE ZONE, PROVIDED BY DIV. 16
⊙	HUMIDISTAT SUPPLIED BY OTHERS, INSTALLED BY DIV. 16
⊙	LOW VOLTAGE VALVE AND TRANSFORMER SUPPLIED BY OTHERS INSTALLED BY DIV. 16
⊙	FAN SPEED CONTROLLER SUPPLIED BY OTHERS INSTALLED BY DIV. 16
⊙	PIPE TRACING HEATING CABLE
⊙	DRUM DRIP OR INSPECTOR TEST ELECTRICALLY TRACED
⊙	ELECTRIC HEATER PER SCHEDULE EL, HEATER IDENTIFIER (A= TYPE, 1.0-KW)
⊙	TELEPHONE ZONE CONDUIT
⊙	WALL MOUNTED TELEPHONE OUTLET
⊙	FLOOR MOUNTED TV/TELEPHONE OUTLETS
⊙	WALL MOUNTED LOW TENSION OUTLET
⊙	WALL MOUNTED MICROPHONE OUTLET
⊙	WALL MOUNTED INTERCOM OUTLET
⊙	WALL MOUNTED EMERGENCY PULL SWITCH/INTERCOM
⊙	FLOOR MOUNTED LOW TENSION OUTLET
⊙	IN SUITE TELEPHONE/TV CORD/DISTRIBUTION PANEL, 120V OUTLET INSIDE THE PANEL TO BE PER FLOOR SUITE PANEL
⊙	WALL MOUNTED TELEVISION OUTLET
⊙	TV/TELEPHONE IN SEPARATE BOXES AND FACEPLATES (MULTI PORT)
⊙	WALL MOUNTED IN SUITE SECURITY PANEL
⊙	ENTERPHONE OR SECURITY OPERATED MAGLOCK
⊙	CARD READER
⊙	SECURITY DOOR MONITOR SWITCH
⊙	SECURITY SYSTEM MOTION DETECTOR
⊙	SECURITY SYSTEM DOOR CONTACT
⊙	SECURITY INTERCOM OUTLET
⊙	PANIC ALARM RECEIVER C/W INTERCOM
⊙	CCTV CAMERA
⊙	SIGNAL BELL
⊙	SIGNAL BUZZER
⊙	SIGNAL PUSH BUTTON
⊙	POWER CONNECTION FOR AUTOMATIC DOOR OPENER
⊙	DOOR STRIKE CONTROLLED BY INTERCOM OR EXTERIOR PHONE
⊙	SIGNAL TRANSFORMER
⊙	CARBON MONOXIDE DETECTOR
⊙	CEILING OR WALL MOUNTED P.A. SPEAKER BY OTHERS, OBTAIN BACKSHEET AND INSTALL
⊙	SPEAKER VOLUME CONTROL
⊙	AUDIO VISUAL KEYPAD
⊙	WALL MOUNTED CLOCK
⊙	MASTER CLOCK
⊙	EMERGENCY LIGHTING BATTERY UNIT
⊙	1 AND/OR 2 HEADS EMERGENCY LIGHTING REMOTE UNIT
⊙	MANUALLY OPERATED FIRE ALARM STATION
⊙	FIRE ALARM BELL
⊙	SURFACE MOUNTED FIRE ALARM SPEAKER IN GARAGE
⊙	FIRE ALARM HORN WALL SURFACE MOUNTED IN GARAGE
⊙	FIRE ALARM MINI HORN FLUSH MOUNTED
⊙	FIRE ALARM STROBE LIGHT
⊙	FIRE ALARM COMBINATION HORN/STROBE LIGHT
⊙	FIRE ALARM CEILING MOUNTED SPEAKER
⊙	FIRE ALARM WALL MOUNTED SPEAKER
⊙	HEAT DETECTOR 94 DEGREE C FIXED TEMPERATURE
⊙	HEAT DETECTOR 58 DEGREE C FIXED TEMP. & RATE OF RISE
⊙	COMBINATION 120V SMOKE ALARM & HEAT DETECTOR
⊙	PHOTOCHEMICAL SMOKE DETECTOR
⊙	IONIZATION SMOKE DETECTOR
⊙	DUCT MOUNTED SMOKE DETECTOR
⊙	120V SMOKE ALARM
⊙	FIRE ALARM OPERATED DOOR HOLD OPEN DEVICE
⊙	COMBINATION 120V CO AND SMOKE DETECTOR C/W FLASHING LIGHT
⊙	FIRE ALARM ISOLATION SWITCH CEILING MOUNTED
⊙	SUPPRESSOR VALVE WIRED BY THIS DIVISION
⊙	SPRINKLER FLOW ALARM WIRED BY THIS DIVISION
⊙	SPRINKLER PRESSURE SWITCH WIRED BY THIS DIVISION
⊙	SPEAKER VOLUME CONTROL
⊙	FIRE FIGHTER TELEPHONE/HANDSET
⊙	TIME SWITCH (PARAGON 4000-S2, SKIP-A-DAY, ASTRODAL, 24 HOURS)
⊙	SURFACE MOUNTED LIGHTING OR POWER PANEL
⊙	FLUSH MOUNTED LIGHTING OR POWER PANEL
⊙	NEXT TO DEVICES INDICATES WEATHER PROOF, GROUND FAULT IDENTIFIER AND ISOLATED GROUND IDENTIFIER LIGHTING FIXTURE TYPE
⊙	RECESSED STEP LIGHT
⊙	NOTE: THIS LEGEND IS GENERIC. ALL SYMBOLS LISTED MAY NOT BE APPLICABLE FOR THIS PROJECT. REFER TO FLOOR PLANS TO DETERMINE USED DEVICES AND EQUIPMENT.

GENERAL NOTES:

- ELECTRICAL DRAWINGS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, FIRE PROTECTION, INTERIOR DESIGN, LANDSCAPE AND STRUCTURAL DRAWINGS. CONTRACTOR TO ALLOW FOR ALL COORDINATION TO BE COMPLETED ON SITE.
- ALL SECURITY CONDUIT TO BE PROVIDED IN COORDINATION WITH SECURITY SUPPLIER
- ALL WORK TO BE IN ACCORDANCE WITH HYDRO/ESA STANDARDS AND AS DIRECTED BY ON SITE INSPECTORS.
- ALL PENETRATES THRU CORE SLAB TO BE SMOKE SEALED IN ACCORDANCE WITH CODE AND MANUFACTURERS RECOMMENDATIONS. ALL WIRING IN SUITES TO BE BOX WHERE POSSIBLE.
- ENSURE THAT THE INTEGRITY OF THE EXISTING FIRE SEPARATIONS IS NOT AFFECTED BY FIRE ALARM DEVICES. THE INTEGRITY OF THESE FIRE SEPARATIONS BEHIND THE PHYSICAL DEVICES IS REQUIRED TO BE REVIEWED AND COORDINATED ON SITE TO ENSURE THAT SUFFICIENT CONCRETE THICKNESS IS AVAILABLE TO MAINTAIN THE 2H FIRE SEPARATION.
- FINAL DRUM DRIPS LOCATION MUST BE CO-ORDINATED WITH THE MECHANICAL CONTRACTOR ON SITE. ALL DRUM DRIPS MUST BE ELECTRICALLY TRACED AND INSULATED, FED FROM PANEL "EF".
- FINAL EXPOSED P-TRAPS MUST BE CO-ORDINATED WITH MECHANICAL CONTRACTOR ON SITE. ALL EXPOSED P-TRAPS TO BE ELECTRICALLY TRACED AND INSULATED, FED FROM PANEL "EF".
- ALL HEAT TRACING FOR WET SPRINKLERS AND STANDPIPE IS REQUIRED TO HAVE A SUPERVISORY SIGNAL ON FIRE ALARM SYSTEM CONTROL PANEL WHEN THERE IS A LOSS OF POWER.
- COMPLETE NETWORKED GAS DETECTION AND CONTROL SYSTEM TO BE PROVIDED AND INSTALLED WHERE THE VENTILATION SYSTEM WILL BE HOOKED UP DIRECTLY TO THE GAS DETECTION SYSTEM. (REFER TO CO MONITOR SYSTEM TYPICAL INSTALLATION DETAIL FOR MORE INFORMATION)
- PROVIDE LIGHT SWITCHES WHICH IS (ARE) INTERLOCKED WITH THE OPERATION OF THE EXHAUST FAN SERVING MECHANICAL, STORAGE AND/OR LOCKER ROOMS. OTHERWISE PROVIDE 24HRS OPERATION FOR THE FANS. COORDINATE WITH DIV. 16 PRIOR TO ROUGH-IN.
- FOR SITE LIGHTING, OPERATIONAL PRACTICES TO BE MADE TO REDUCE LIGHT POLLUTION AND SPILL LIGHT (LIGHT BEYOND AREAS THAT NEED TO BE LIT FOR SAFETY AND SECURITY REASONS).
- PEDESTRIAN SCALED LIGHTING MUST BE DIRECTED DOWNWARD AND INCLUDES FIXTURES SUCH AS BOLLARDS OR LOWER SCALE POLE FIXTURES ALONG PEDESTRIAN ROUTES TO MINIMIZE LIGHT POLLUTION.
- WHERE CEILING HEIGHT EXCEEDS 15' FIXTURES ARE TO BE STEW OR DOWN HUNG TO A HEIGHT OF 12' AFF EXCLUDING GARAGE LIGHT FIXTURES. INTERIOR DESIGN FIXTURES TO BE AS PER INTERIOR DESIGN DRAWINGS.
- OCCUPANCY-BASED LIGHTING CONTROL DEVICES TURN LIGHTS OFF WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE OR A SIGNAL FROM ANOTHER CONTROL.
- ALL OCCUPANCY SENSOR INSTALLATION TO BE AS PER MANUFACTURER RECOMMENDATION. PROVIDE ON/OFF/AUTO FOR ALL SWITCHES WHERE OCCUPANCY SENSORS ARE USED.
- EXIT SIGNS TO BE 5W OR LESS PER FACE. EXIT SIGN LOCATIONS ARE SUBJECTIVE AND WILL REQUIRE ON-SITE REVIEW TO ADDRESS OBSTRUCTIONS SUCH AS COLUMN CAPITALS AND DUCTS OR PIPES. SITE REVIEW OF EXIT SIGN LOCATIONS IS REQUIRED.
- REFER TO SUITE PANEL SCHEDULE FOR IN SUITE SECURITY ARRANGEMENT.
- COORDINATE LOCATION OF SUITE ELECTRICAL, C/T AND SECURITY PANELS WITH ARCHITECTURAL DRAWINGS.
- ALL DWELLING UNIT RECEPTACLES, INCLUDING KITCHEN COUNTER RECEPTACLES, OF CSA CONFIGURATION 5-15R AND 5-20R SHALL BE TAMPER RESISTANT RECEPTACLES WITH EXCEPTION OF RECEPTACLES DEDICATED FOR STATIONARY APPLIANCES SUCH THAT THE RECEPTACLE IS RENDERED INACCESSIBLE, OR THOSE LOCATED 2m FROM THE FLOOR OR FINISHED GRADE.
- AT LEAST ONE RECEPTACLE SHALL BE INSTALLED FOR THE MAINTENANCE OF ROOFTOP HVAC EQUIPMENT AS PER RULE 26-314 AND SHALL BE LOCATED WITHIN 7.5m OF ALL SUCH EQUIPMENT AND COMPLY WITH REQUIREMENTS OF 26-704 AND BULLETIN 26-27-4.
- WHERE EXPOSED TO THE WEATHER, RECEPTACLES SHALL BE PROVIDED WITH COVER PLATES SUITABLE FOR WET LOCATIONS WHETHER OR NOT A PLUG IS INSERTED INTO THE RECEPTACLE (N-USE COVER PLATES). RULE 26-702(2)
- EACH BRANCH CIRCUIT SUPPLYING 120V RECEPTACLES, RATED 20A OR LESS, SHALL BE PROTECTED BY A COMBINATION-TYPE AFCI EXCEPT BRANCH CIRCUITS SUPPLYING RECEPTACLES ON KITCHEN COUNTER (FOR PERSON WITH DISABILITIES) BATHROOMS/BEDROOMS (PROVIDED THAT NO OTHER RECEPTACLES ARE CONNECTED TO THESE CIRCUITS), KITCHEN COUNTER, KITCHEN ISLAND AND PENINSULA.
- FLOOR OUTLET BOXES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS FOR THE TYPE OF FLOOR INTENDED. FLUSH-MOUNTED FLOOR BOX COVERS SHALL BE SPECIFICALLY APPROVED FOR THE TYPE OF FLOOR INTENDED.
- CONFIRM VOLTAGE AND SUPPLY OF THERMOSTATS QUANTITY WITH MECHANICAL DRAWINGS.
- LOW VOLTAGE DRY TYPE TRANSFORMERS (AIR COOLED <=600V) TO MEET NOMINAL EFFICIENCY REQUIRED BY ASHRAE 90.1

DRAWINGS LIST

DWG. #	TITLE	SCALE
E-1	SITE PLAN	1:250
E-2A/E-2B	PARKING LEVEL	1:100
E-2C	PARKING LEVEL ELECTRICAL ROOM LAYOUT	1:150
E-3	GROUND FLOOR PLAN	1:150
E-4	2ND FLOOR PLAN	1:150
E-5	3RD FLOOR PLAN	1:150
E-6	4TH FLOOR PLAN	1:150
E-7	ROOF PLAN	1:150
E-8	TYPICAL SUITE LAYOUT	1:75
E-8A/8B	DETAILS	N.T.S.
E-10	RESER DIAGRAMS	N.T.S.
E-11	FIRE ALARM SYSTEM	N.T.S.
E-12	SINGLE LINE DIAGRAM	N.T.S.
E-13	PANEL SCHEDULES	N.T.S.

PANEL IDENT. A		SERVICE: 208Y/120V, 3ø, 4W				NOTES:	
		MAIN CCT. BRK: -					
		WATTS: 120 AMPS					
		MOUNTING: SURFACE					
LOAD DESCRIPTION		WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION
EXTERIOR LIGHTING (1ST)		15A	1	1	2	15A	
EXTERIOR LIGHTING (1ST)		15A	3	4	4	15A	EXTERIOR LIGHTING (1ST)
EXTERIOR LIGHTING (1ST)		15A	5	6	15A		EXTERIOR LIGHTING (1ST)
EXTERIOR LIGHTING (1ST)		15A	7	8	15A		SPARE
SPARE		15A	9	10	15A		
		15A	11	12	15A		
		15A	13	14	15A		
		15A	15	16	15A		
		15A	17	18	15A		
SPACE		19	20	21	22		SPACE
		23	24	25	26		
		27	28	29	30		
		31	32	33	34		



- KEY NOTES:**
- ◇ WHEN CONNECTING GARAGE LIGHTS TO "OSS", EACH SENSOR TO BE AS A LIGHT BAY.
 - ◇ CO AUDIO/VISUAL REMOTE INDICATOR LIGHT.
 - ◇ GENERATOR BLOCK HEATER (CONFIRM LOCATION ON SITE) EBI-19/21
 - ◇ GENERATOR BATTERY CHARGER EBI-17
 - ◇ INSULATE AND ELECTRICALLY TRACE ALL SPRINKLER PIPES AND HEADS IN GENERATOR ROOM FED FROM PANEL EF
 - ◇ TOP OF LOWER STAIR SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE
 - ◇ GARBAGE COMPACTOR TRISORT, EXACT LOCATION TBC
 - ◇ 20A TRISORT CONTROL PANEL
 - ◇ ALL ELECTRICAL DEVICES LOCATED IN GARBAGE ROOM SHOULD BE WEATHER PROOF (TYPICAL)
 - ◇ 1/2" CONDUIT OUTLETS FOR:
 - TELEPHONE
 - ELEVATOR RECALL
 - SECURITY/INTERCOM
 - GEN. HOMING SIGNALCONFIRM EXACT QUANTITY AND TERMINATE ON SITE, AS PER THE LOCATION OF CONTROLLER SHOWN IN ELEVATOR SHOP DRAWINGS. COORDINATE WITH ELEVATOR INSTALLER PRIOR TO ROUGH IN.
 - ◇ DISCONNECTS FOR ELEVATOR POWER SUPPLY FED FROM ELEVATOR SPURTER (SPS) DISCONNECTS FOR GAS LIGHTS ETC. REFER TO SINGLE LINE DIAGRAM FOR DETAILS. EXACT LOCATION PER ELEVATOR SHOP DRAWINGS.
 - ◇ VANDAL PROOF ELEVATOR SUMP PIT "P-4" (DUPLEX) CONTROL PANEL C/W PADLOCKABLE WIRE CAGE. REFER TO DETAIL. EXACT CIRCUITS AS SHOWN
 - ◇ GARAGE EXHAUST FAN, FED FROM MPE1 PROVIDE VANDAL PROOF CONTROL EQUIPMENT, TO BE INTERLOCKED WITH CO SYSTEM (ONE UNIT IN TOP OF THE OTHER)
 - ◇ VANDAL PROOF SANITARY SUMP PIT C/W PUMP "P-2" (DUPLEX) CONTROL PANEL C/W PADLOCKABLE WIRE CAGE. REFER TO DETAIL.
 - ◇ NOT USED
 - ◇ PROVIDE INSULATION AND ELECTRICAL TRACING ON ALL DOMESTIC COLD WATER PIPING OUTSIDE HEATED PLENUM (TYPICAL) FED FROM PANEL EF
 - ◇ PROVIDE INSULATION AND ELECTRICAL TRACING ON ALL VERTICAL NON FREEZE HOSE BIB PIPING OUTSIDE HEATED PLENUM (TYPICAL FOR 12) FED FROM PANEL EF
 - ◇ INSULATED AND ELECTRICALLY TRACE EXPOSED PIPING FED FROM PANEL EF
 - ◇ NOT USED
 - ◇ VANDAL PROOF STORM SUMP PIT C/W PUMP "P-3" (DUPLEX) CONTROL PANEL C/W PADLOCKABLE WIRE CAGE. REFER TO DETAIL.
 - ◇ NOT USED
 - ◇ 1KW HEATER C/W BUILT IN THERMOSTAT IN HEATED PIPE SPACE. BUILDING A AND BUILDING D FED FROM PANEL H1 BUILDING B AND BUILDING C FED FROM PANEL H2 REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION, QUANTITY AND DETAILS.
 - ◇ NOT USED
 - ◇ WIRELESS SIGNAL RECEIVER TO ACTIVATE Q/H DOOR AND OR CATAWING WEATHERPROOF
 - ◇ Q/H DOOR CONTROL PANEL TO BE INTERCONNECTED TO FIRE ALARM SYSTEM TO OPEN UPON ACTIVATE OF FIRE ALARM
 - ◇ 20# NON FREEZE HOSE BIB PIPE TO ABOVE PROVIDE INSULATION AND ELECTRICAL TRACING ON ALL VERTICAL NON FREEZE HOSE BIB PIPE TO ABOVE UP TO NFHB (TYPICAL OF 16) FED FROM PANEL EF
 - ◇ SMOKE DETECTOR C/W RELAY FOR ELEVATOR RECALL
 - ◇ NET SPRINKLERED PIPING TO BE ELECTRICALLY TRACED AND INSULATED, FED FROM PANEL EF
 - ◇ AIR COMPRESSOR FED FROM PANEL DPE1 CONFIRM EXACT LOCATION ON SITE

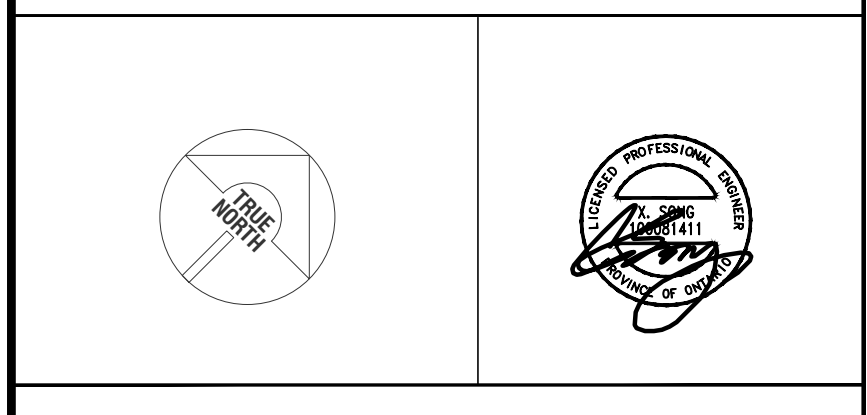
- NOTES:**
1. ALL INSULATE AND ELECTRICALLY HEAT TRACING TO BE READ IN CONJUNCTION WITH MECHANICAL AND SPRINKLER DRAWINGS.
 2. PROVIDE 120V POWER SUPPLIER FOR IRRIGATION CONTROLLER FED FROM M1-38 EXACT IRRIGATION CONTROLLER LOCATION AND POWER REQUIREMENT FOR IRRIGATION PUMP "P-X" TBC BY LANDSCAPE DESIGNER.

- GENERAL NOTES:**
1. A COMPLETE NETWORKED GAS DETECTION AND CONTROL SYSTEM TO BE PROVIDED AND INSTALLED WHERE THE VENTILATION SYSTEM MAY BE HOOD UP DIRECTLY TO THE GAS DETECTION SYSTEM. (REFER TO GAS DETECTOR SYSTEM TYPICAL INSTALLATION DETAIL FOR MORE INFORMATION).
 2. FINAL DRIP DWP AND TEST POINTS LOCATIONS MUST BE CO-ORDINATED WITH THE FIRE PROTECTION CONTRACTOR ON SITE. ALL DRIP DWP AND TEST POINTS TO BE ELECTRICALLY TRACED AND INSULATED. FED FROM PANEL EF (TYPICAL). (REFER TO FIRE PROTECTION DRAWINGS FOR EXACT LOCATION FOR DRIP DWP, TEST CONNECTIONS, PNC AND OTHER PIPE TRACING REQUIREMENT IN THE PROTECTION SYSTEM, AS NOT AVAILABLE AT THE TIME OF TENDERS)
 3. FINAL EXPOSED F-TRAPS MUST BE CO-ORDINATED WITH MECHANICAL CONTRACTOR ON SITE. ALL EXPOSED F-TRAPS TO BE ELECTRICALLY TRACED AND INSULATED. FED FROM PANEL EF (TYPICAL)
 4. PROVIDE LIGHT SENSORS/OCCUPANCY SENSORS WHICH IS (ARE) INTERLOCKED WITH THE OPERATION OF THE EXHAUST FAN SERVING THE ROOM FOR MECHANICAL ROOMS AND STORAGE ROOMS. ELSE PROVIDE SENSORS OPERATION FOR THOSE FANS (TYPICAL)
 5. ALL OCCUPANCY SENSOR INSTALLATION TO BE AS PER MANUFACTURER RECOMMENDATION.
 6. EXIT SIGNS TO BE 5W OR LESS PER FACE.

03	SP	ISSUED FOR ADD E-2	JUN. 15, 2020
02	SP	ISSUED FOR ADD E-1	SEP. 16, 2019
01	SP	ISSUED FOR TENDER	AUG. 02, 2019
NO.	BY	DESCRIPTION	DATE

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.



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TITLE		PARKING LEVEL PART A ELECTRICAL	
PROJECT		BRAMPTON STACKED FORESTSIDE ESTATES	
DRAWN		CHECKED	SCALE
SP	MG		1:100
DATE		PROJECT	DRAWING
MAY, 2019		18-017	E-2A
			OF 16



- KEY NOTES:**
- ◇ WHEN CONNECTING GARAGE LIGHTS TO "OSC", EACH SENSOR TO BE AS A LIGHT BAY.
 - ◇ CO AUDIO/VISUAL REMOTE INDICATOR LIGHT.
 - ◇ NOT USED
 - ◇ NOT USED
 - ◇ NOT USED
 - ◇ TOP OF LOWER STAIR SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE.
 - ◇ GARAGE COMPACTOR TRISORT. EXACT LOCATION TBC FED FROM DP24.
 - ◇ 20A TRISORTER CONTROL PANEL.
 - ◇ ALL ELECTRICAL DEVICES LOCATED IN GARAGE ROOM SHOULD BE WEATHER PROOF (TYPICAL).
 - ◇ 1/2" CONDUIT OUTLETS FOR:
 - TELEPHONE
 - ELEVATOR RECALL
 - SECURITY/INTERCOM
 - GEN. HOMING SIGNAL
 - ◇ CONFIRM EXACT QUANTITY AND TERMINATE ON SITE, AS PER THE LOCATION OF CONTROLLER SHOWN IN ELEVATOR SHOP DRAWINGS. COORDINATE WITH ELEVATOR INSTALLER PRIOR TO ROUGH IN.
 - ◇ DISCONNECTS FOR ELEVATOR POWER SUPPLY FED FROM ELEVATOR SPLITTER SP1. DISCONNECTS FOR CAB LIGHTS ETC. REFER TO SINGLE LINE DIAGRAM FOR DETAILS. EXACT LOCATION FOR ELEVATOR SHOP DRAWINGS.
 - ◇ VANDAL PROOF ELEVATOR SUMP PIT "P-4" (SIMPLE) CONTROL PANEL C/W PADLOCKABLE WIRE CAGE. REFER TO DETAIL FED FROM DP22.
 - ◇ GARAGE EXHAUST FAN FED FROM MDP61.
 - ◇ PROVIDE VANDAL PROOF CONTROL EQUIPMENT, TO BE INTERLOCKED WITH CO SYSTEM (ONE UNIT IN TOP OF THE OTHER).
 - ◇ VANDAL PROOF SANITARY SUMP PIT C/W PUMP "P-2" (DUPLX) CONTROL PANEL C/W PADLOCKABLE WIRE CAGE. REFER TO DETAIL FED FROM DP21.
 - ◇ NOT USED
 - ◇ PROVIDE INSULATION AND ELECTRICAL TRACING ON ALL DOMESTIC COLD WATER PIPING OUTSIDE PLENUM (TYPICAL). FED FROM PANEL "EF".
 - ◇ PROVIDE INSULATION AND ELECTRICAL TRACING ON ALL VERTICAL NON FREEZE HOSE BIB PIPING OUTSIDE HEATED PLENUM (TYPICAL FOR 12"). FED FROM PANEL "EF".
 - ◇ INSULATED AND ELECTRICALLY TRACE EXPOSED PIPING FED FROM PANEL "EF".
 - ◇ NOT USED
 - ◇ VANDAL PROOF STORM SUMP PIT C/W PUMP "P-3" (DUPLX) CONTROL PANEL C/W PADLOCKABLE WIRE CAGE. REFER TO DETAIL FED FROM DP23.
 - ◇ NOT USED
 - ◇ 1KW HEATER C/W BUILT IN THERMOSTAT IN HEATED PIPE SPACE. BUILDING A AND BUILDING D FED FROM PANEL M1. BUILDING B AND BUILDING C FED FROM PANEL M2. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION, QUANTITY AND DETAILS.
 - ◇ NOT USED
 - ◇ NOT USED
 - ◇ NOT USED
 - ◇ 20K NON FREEZE HOSE BIB PIPE TO ABOVE PROVIDE INSULATION AND ELECTRICAL TRACING ON ALL VERTICAL NON FREEZE HOSE. BIB PIPE TO ABOVE UP TO NFHB (TYPICAL OF 16) FED FROM PANEL "EF".
 - ◇ SMOKE DETECTOR C/W RELAY FOR ELEVATOR RECALL.
 - ◇ WET SPRINKLERED PIPING TO BE ELECTRICALLY TRACED AND INSULATED, FED FROM PANEL "EF".
 - ◇ AIR COMPRESSOR FED FROM PANEL DP61. CONFIRM EXACT LOCATION ON SITE.

- NOTES:**
1. ALL INSULATE AND ELECTRICALLY HEAT TRACING TO BE READ IN CONJUNCTION WITH MECHANICAL AND SPRINKLER DRAWINGS.
 2. PROVIDE 120V POWER SUPPLIER FOR IRRIGATION CONTROLLER FED FROM M1-38. EXACT IRRIGATION CONTROLLER LOCATION AND POWER REQUIREMENT FOR IRRIGATION PUMP "P-X" TBC BY LANDSCAPE DESIGNER.

GENERAL NOTES:

1. A COMPLETE NETWORKED GAS DETECTION AND CONTROL SYSTEM TO BE PROVIDED AND INSTALLED WHERE THE VENTILATION SYSTEM WILL BE HOOKED UP DIRECTLY TO THE GAS DETECTION SYSTEM. (REFER TO CO PONTOR SYSTEM TYPICAL INSTALLATION DETAIL FOR MORE INFORMATION).
2. FINAL DRIFT DPM AND TEST POINTS LOCATIONS MUST BE CO-OPERATED WITH THE FIRE PROTECTION CONTRACTOR ON SITE. ALL DRIFT DPMs AND TEST POINTS TO BE ELECTRICALLY TRACED AND INSULATED. FED FROM PANEL "EF".
3. FINAL DRIFT DPM AND TEST POINTS LOCATIONS MUST BE CO-OPERATED WITH MECHANICAL CONTRACTOR ON SITE. ALL EXPOSED P-TRAPS TO BE ELECTRICALLY TRACED AND INSULATED. FED FROM PANEL "EF".
4. PROVIDE LIGHT SENSORS/OCCUPANCY SENSORS WHICH IS (ARE) INTERLOCKED WITH THE OPERATION OF THE EXHAUST FAN SERVING THE ROOM FOR MECHANICAL ROOMS AND STORAGE ROOMS. ELSE PROVIDE SENSORS OPERATION FOR THESE FANS. (TYPICAL).
5. ALL OCCUPANCY SENSOR INSTALLATION TO BE AS PER MANUFACTURER RECOMMENDATION.
6. EXT SIGNS TO BE 5W OR LESS PER FACE.

NO.	BY	DESCRIPTION	DATE
03	SP	ISSUED FOR ADD E-2	JUN. 15, 2020
02	SP	ISSUED FOR ADD E-1	SEP. 16, 2019
01	SP	ISSUED FOR TENDER	AUG. 02, 2019

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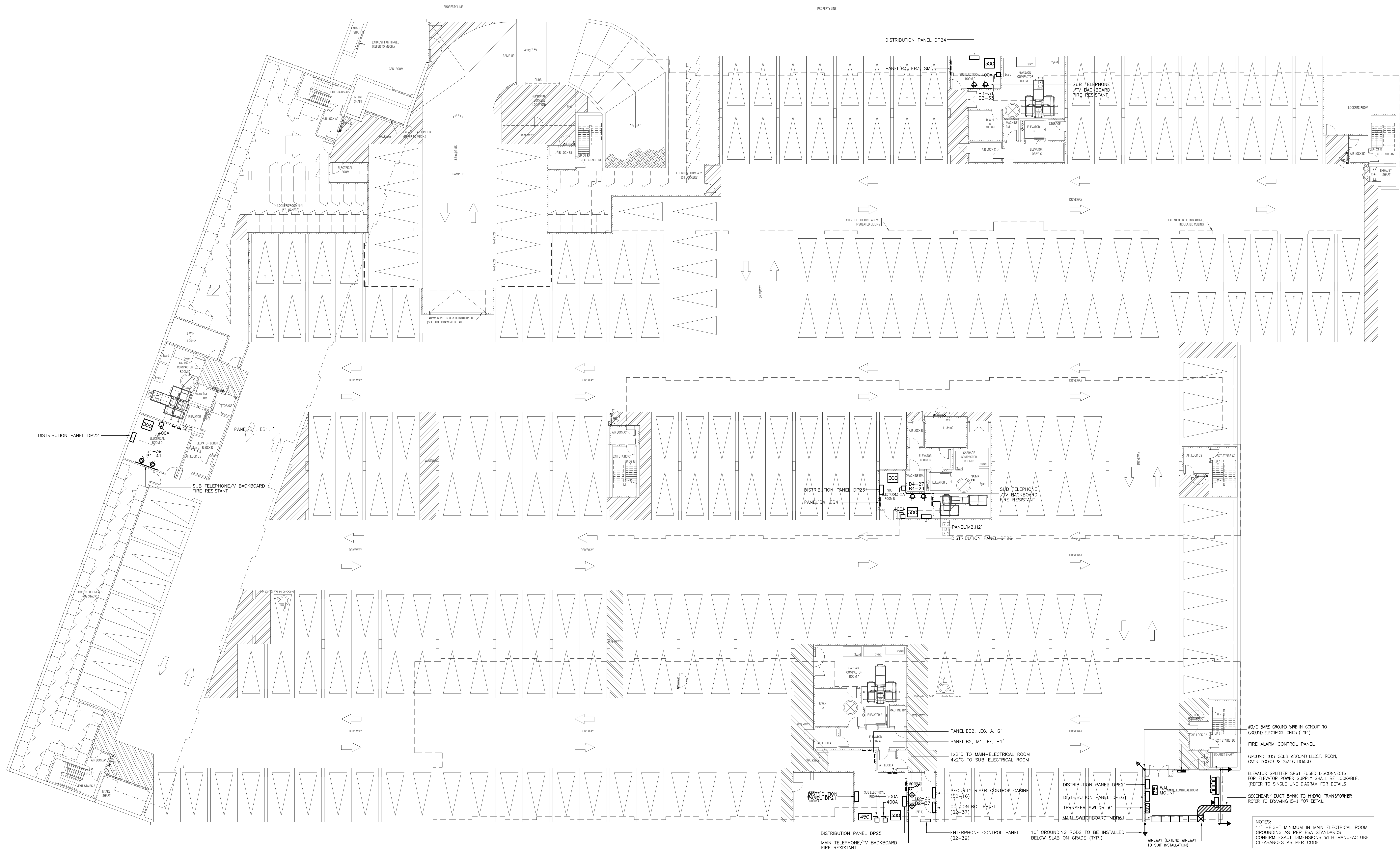
TITLE
PARKING LEVEL PART B
ELECTRICAL

PROJECT
BRAMPTON STACKED
FORESTSIDE ESTATES
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN	CHECKED	SCALE
SP	MG	1:100

DATE	PROJECT	DRAWING
MAY, 2019	18-017	E-2B

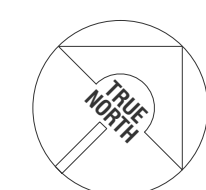
OF 16



NO.	BY	DESCRIPTION	DATE
03	SP	ISSUED FOR ADD E-2	JUN. 15, 2020
02	SP	ISSUED FOR ADD E-1	SEP. 16, 2019
01	SP	ISSUED FOR TENDER	AUG. 02, 2019

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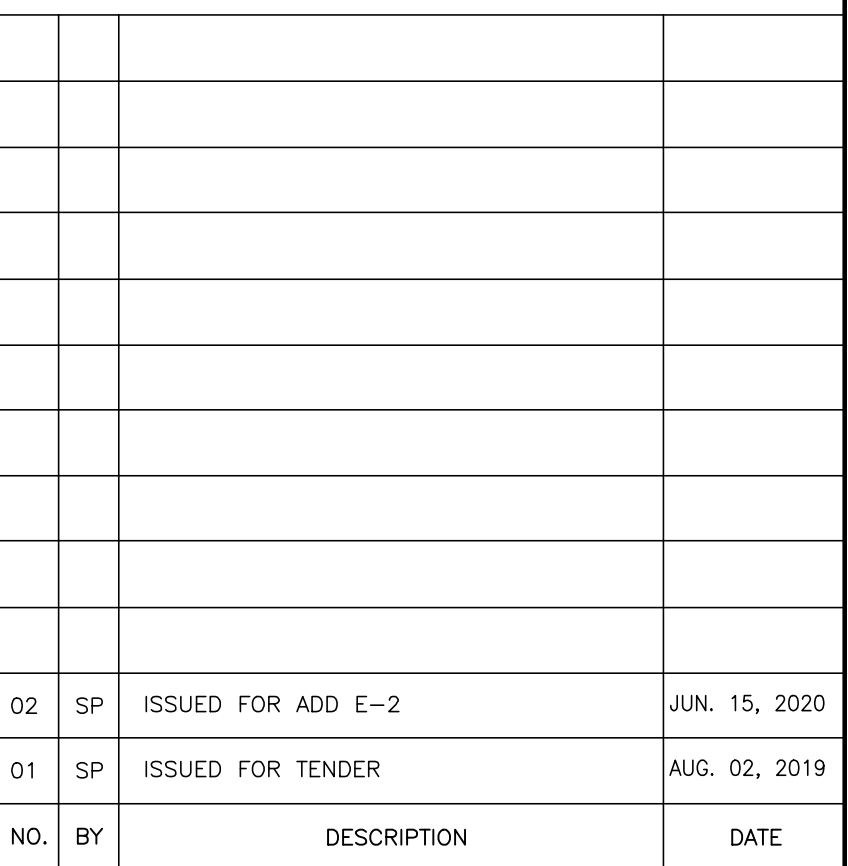
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Mechanical Electrical Consulting Engineers
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Toronto, Ontario, M3J 1M6
Tel: (416) 398 1999, Fax: (416) 398 1933

TITLE
**PARKING LEVEL
ELECTRICAL ROOM LAYOUT**

PROJECT
**BRAMPTON STACKED
FORESTSIDE ESTATES**
**ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO**

DRAWN SP	CHECKED MG	SCALE 1:150
DATE MAY, 2019	PROJECT 18-017	DRAWING E-2C OF 16

- ▶ INTERPHONE PANEL C/W THE INTERBUILDING CITY SYSTEM, CARD READER, SYSTEM PANEL AND CREDIT CARD, CONFIRM EXACT LOCATION ON DATE, WEATHER PROOF
- ▶ JUNCTION BOX FOR TR-SORT GARBAGE SYSTEM
- ▶ TOP OF STAR
- ▶ SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE
- ▶ FIRE ALARM ANNUNCIATOR (ALL FIRE ALARM ANNUNCIATOR TO BE STAINLESS STEEL - TYPICAL)
- ▶ O/H DOOR CONTROL PANEL, TO BE INTERCONNECTED TO FIRE ALARM SYSTEM TO OPEN UPON ACTIVATION OF FIRE ALARM
- ▶ O/H DOOR OPERATOR FED FROM DP21
- ▶ "DO NOT ENTER" SIGNAGE INTERCONNECTED TO FIRE ALARM (DO NOT EXCEED 10)
- ▶ WIRELESS SIGNAL RECEIVER TO ACTIVATE O/H DOOR AND/OR GATEWAYS, WEATHERPROOF
- ▶ FOR CEILING LIGHT/LIGHT/FIRE ALARM REFLECTOR AND 2ND FLOOR
- ▶ 20K NON FUSE HOSE END SPRING FROM BELOW COMPLETE WITH ELECTRICAL TRACING AND INSULATION
- ▶ FID FROM PANEL "12"
- ▶ 12AW ELECTRICAL 74-1
- ▶ 200V FUSE FORCE FLOW HEATER
- ▶ CIRCUIT AS SHOWN
- ▶ SPLIT SYSTEM INDIVIDUAL BLOWER & COILS
- ▶ C/W SPIN HEATER THERMOSTAT
- ▶ CIRCUIT AS SHOWN
- ▶ BUILDING SYSTEM ANNUNCIATOR
- ▶ FIRE DET APPROVED FIRE SMOKE LOGGERS TO BE INTERCONNECTED TO FIRE ALARM SYSTEM TO IDENTIFY ACTIVATED BUILDING
- ▶ START BONES FOR SPECIAL DELIVERIES
- ▶ CIRCUITS: D1-34/ D2-34/ D3-34/ D4-34
- ▶ SMOKE DETECTOR C/W RELAY FOR EXIST-RELAY



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TITLE	GROUND FLOOR PLAN ELECTRICAL
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**BRAMPTON STACKED
FORESTSIDE ESTATES**
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN SP	CHECKED MG	SCALE 1:150
DATE MAY, 2019	PROJECT 18-017	DRAWING E-3
		OF 16

KEY NOTES

- ◇ SMOKE DETECTOR C/W RELAY FOR ELEVATOR RECALL
◇ JUNCTION BOX FOR TRI-SORT GARBAGE SYSTEM



NO.	BY	DESCRIPTION	DATE
02	SP	ISSUED FOR ADD E-2	JUNE 15, 2020
01	SP	ISSUED FOR TENDER	AUG. 02, 2019

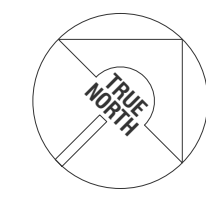
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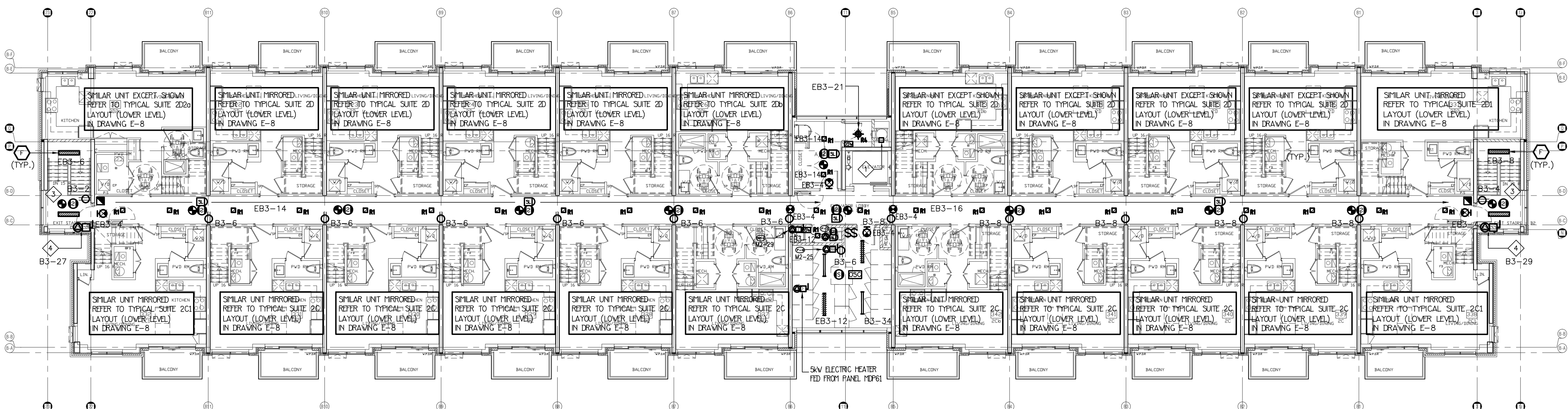
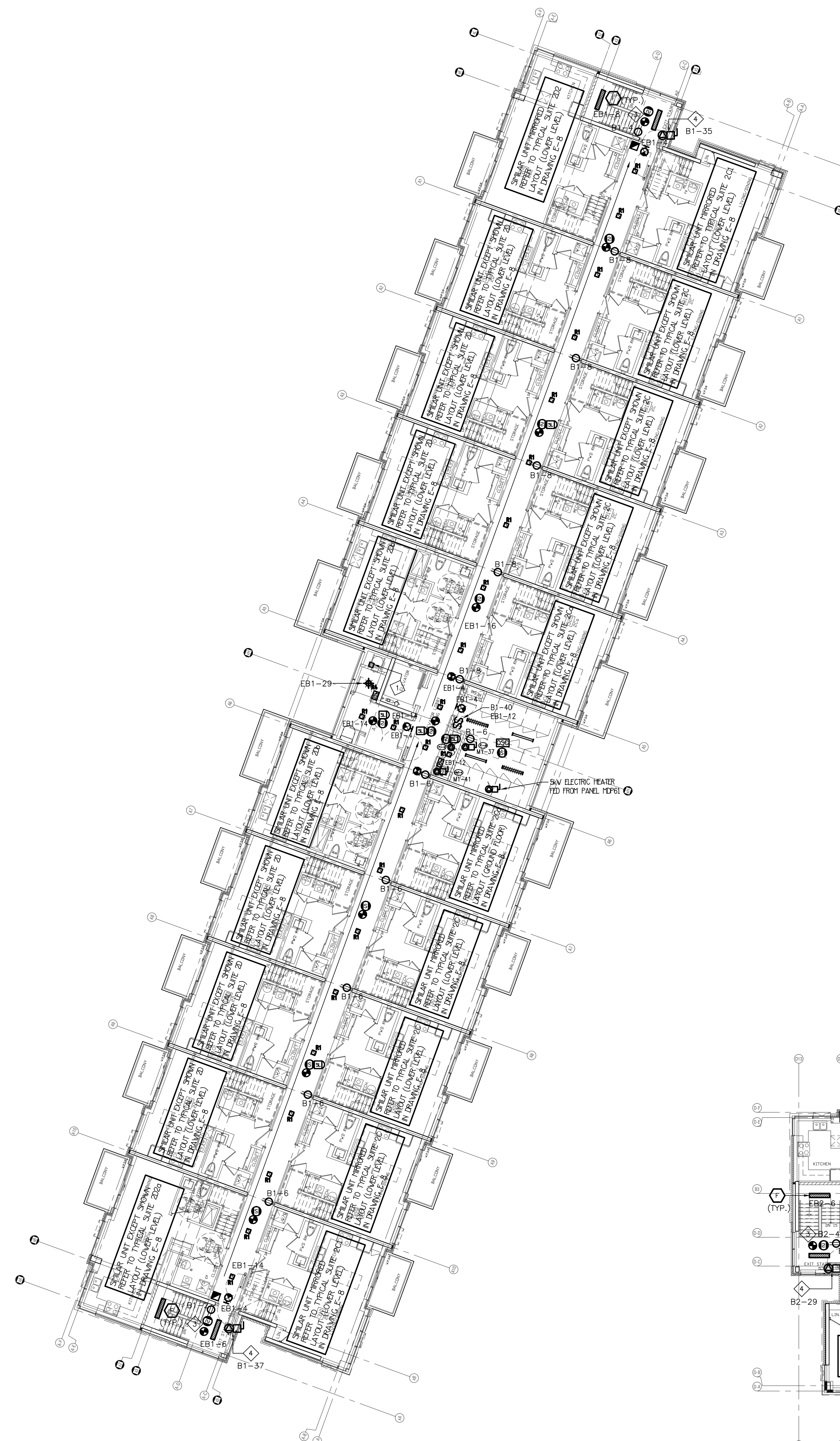
TITLE
**2ND FLOOR PLAN
ELECTRICAL**

PROJECT
**BRAMPTON STACKED
FORESTSIDE ESTATES**
**ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO**

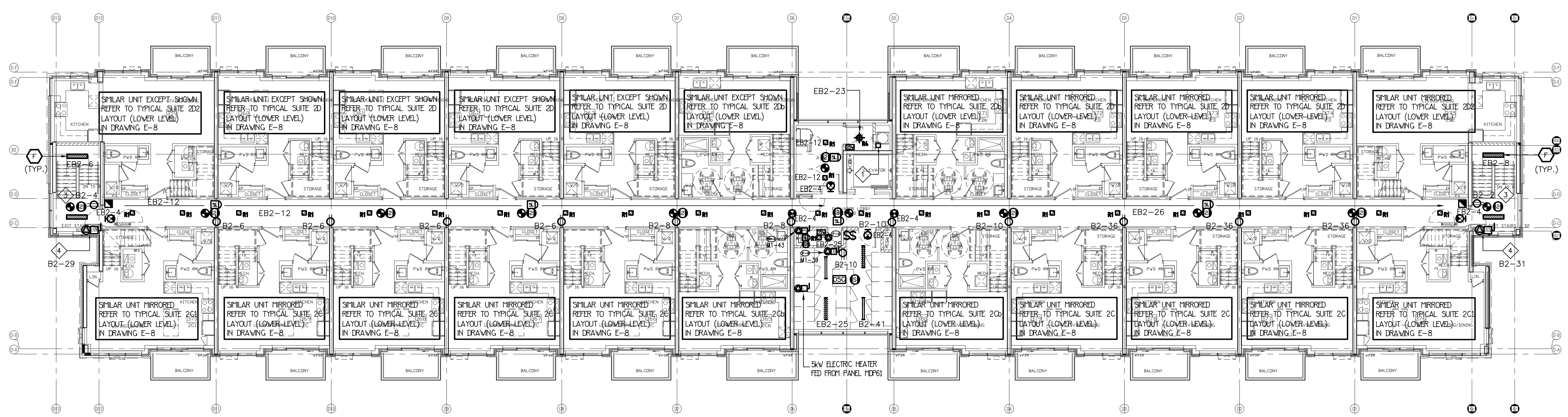
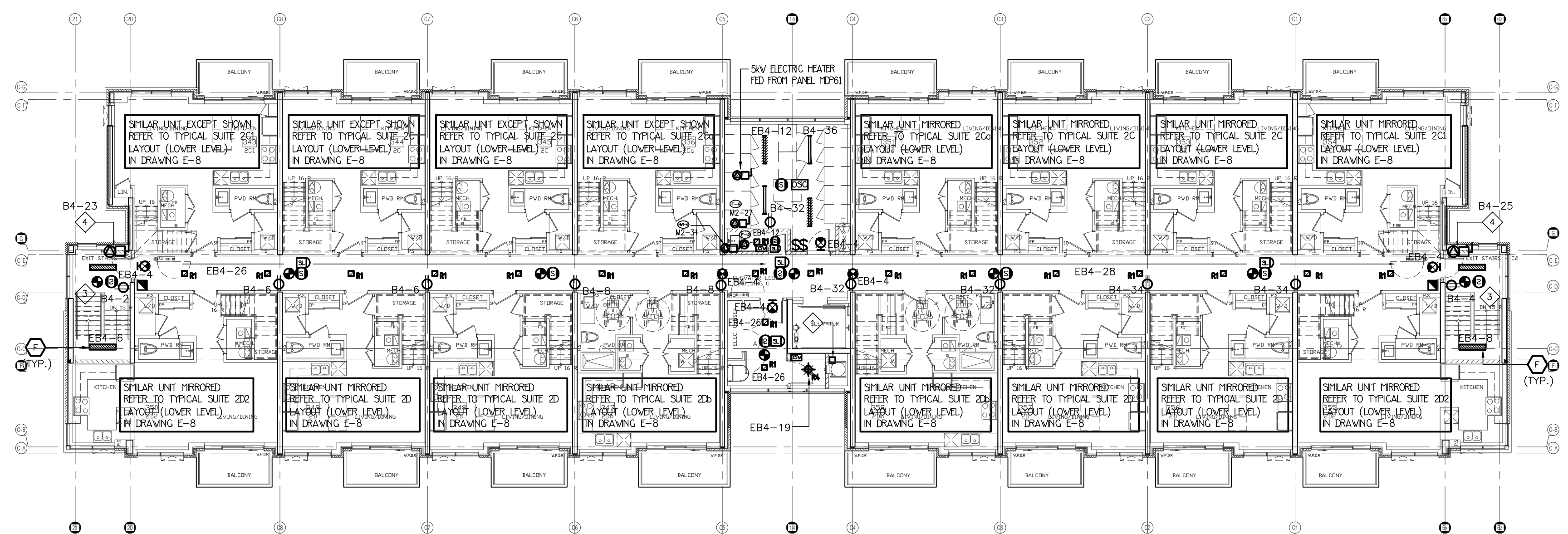
DRAWN	CHECKED	SCALE
SP	MG	1:150
DATE	PROJECT	DRAWING
MAY, 2019	18-017	E-4
		OF 16

KEY NOTES

- JUNCTION BOX FOR TR-SORT CARGAGE SYSTEM
- NOT USED
- TOP OF STAIR SMOKE DETECTOR AND SPEAKER C/W FIRE ALARM ZONE
- 1.0KW ELECTRIC BASEBOARD HEATER



3RD FLOOR LOBBY ENTRANCE BUILDING C AND D

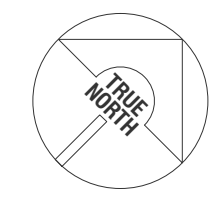


3RD FLOOR LOBBY ENTRANCE BUILDING A AND B

NO.	BY	DESCRIPTION	DATE
02	SP	ISSUED FOR ADD E-2	JUN. 15, 2020
01	SP	ISSUED FOR TENDER	AUG. 02, 2019

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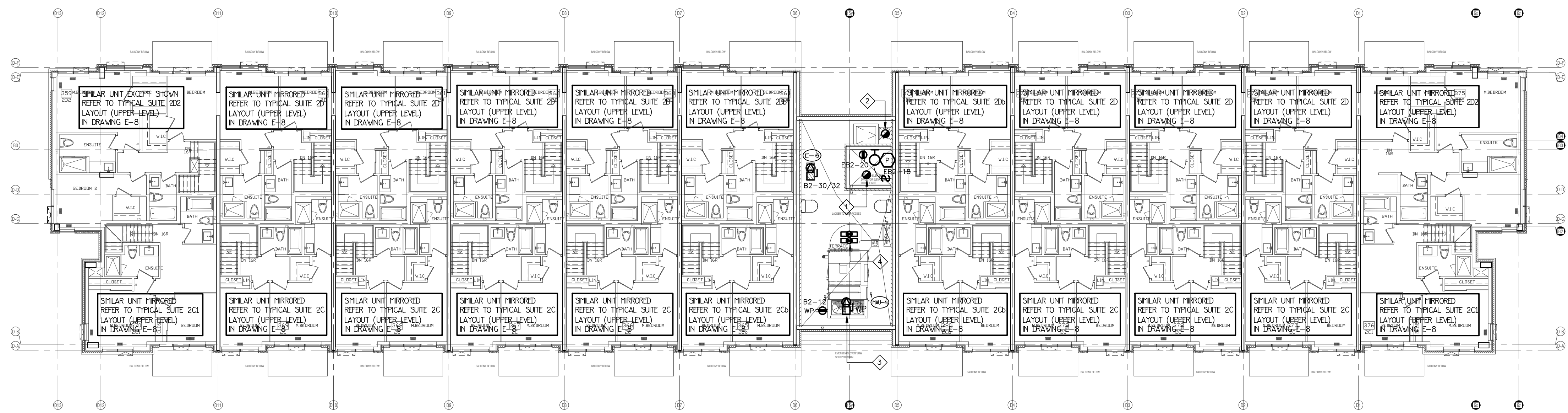
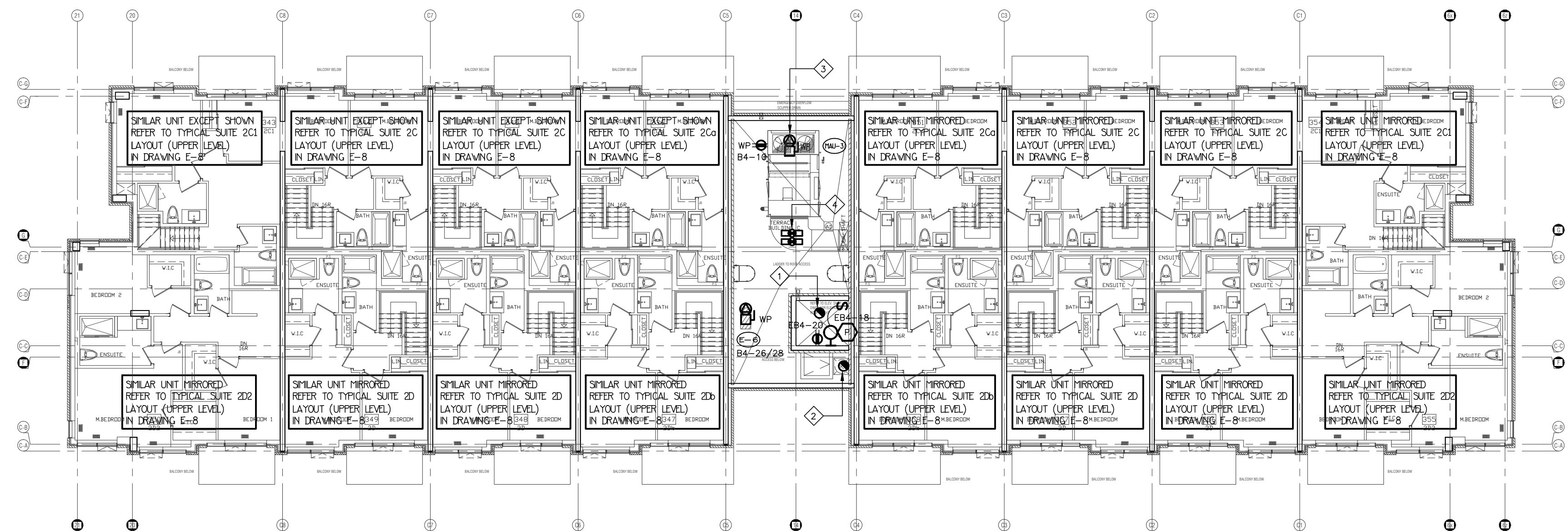
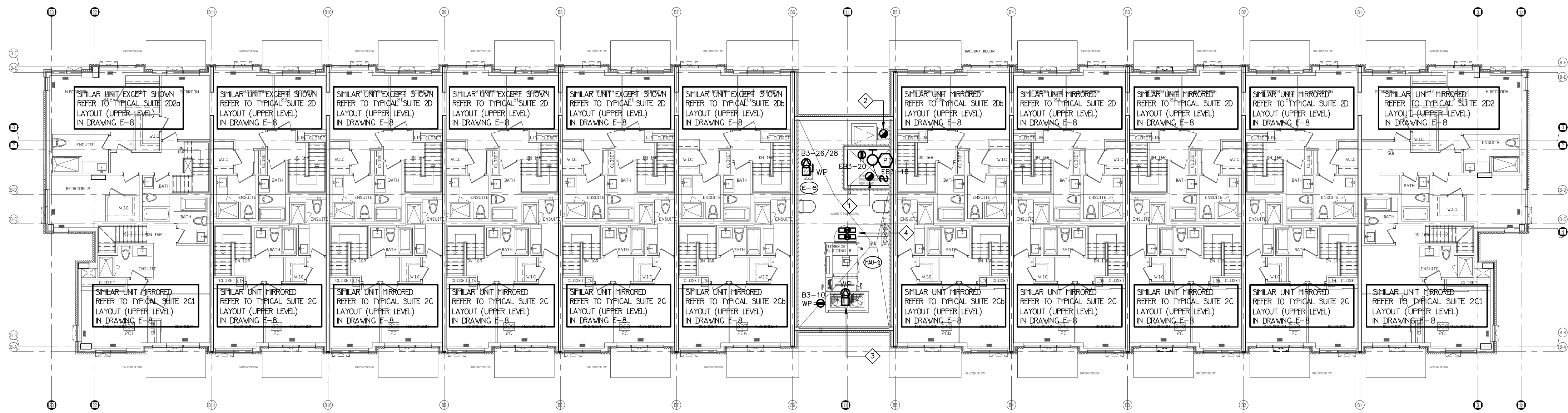
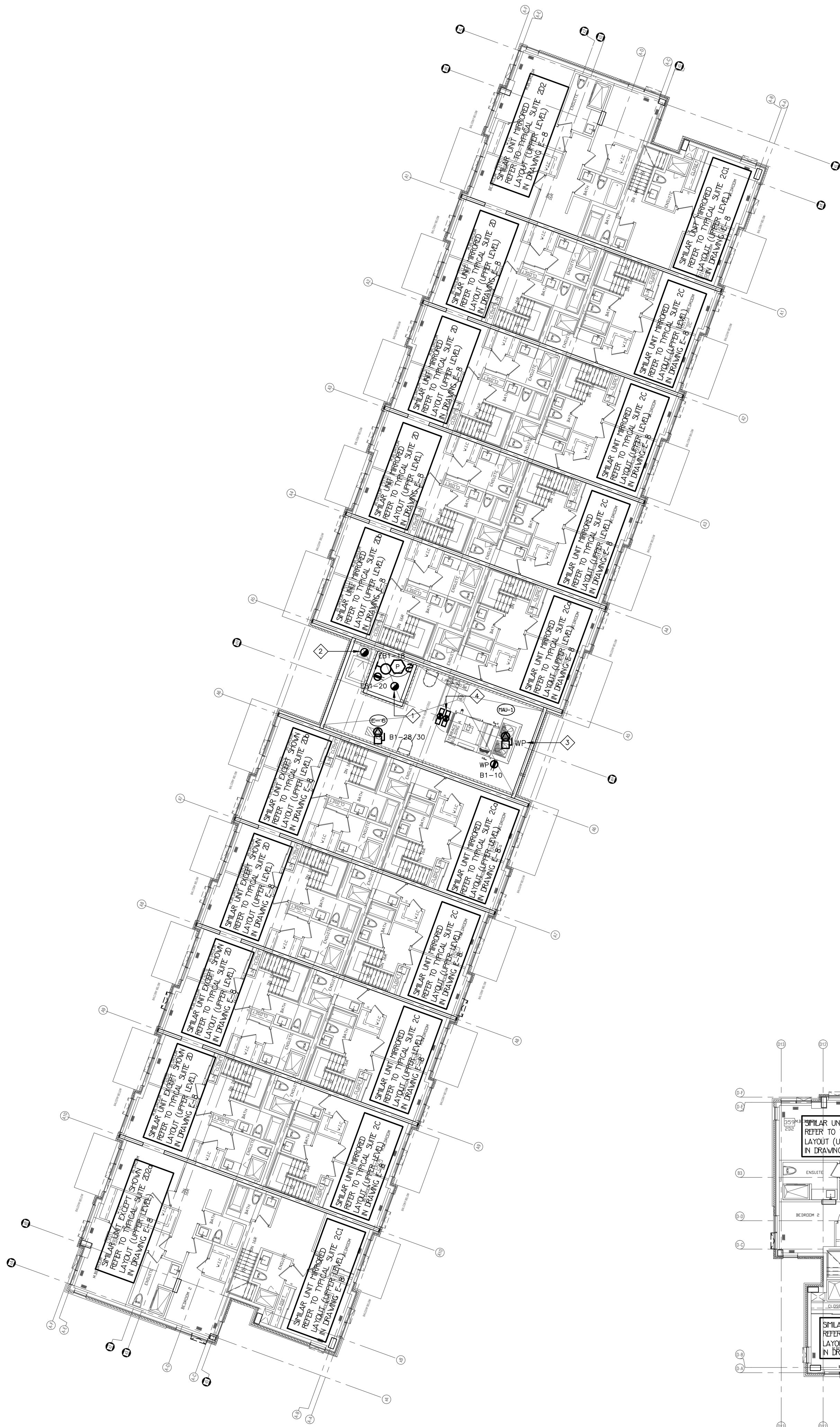
TITLE
**3RD FLOOR PLAN
ELECTRICAL**

PROJECT
**BRAMPTON STACKED
FORESTSIDE ESTATES**
**ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO**

DRAWN SP	CHECKED MG	SCALE 1:150
DATE MAY, 2019	PROJECT 18-017	DRAWING E-5 OF 16

KEY NOTES

- ELEVATOR SHAFT HEAT DETECTOR AT TOP OF SHAFT
- HEAT DETECTOR AT THE TOP OF GARBAGE CHUTE C/W FIRE ALARM ZONE
- MAKE UP AIR UNIT (MOUNTED ON ROOF) FED FROM MOIST
- DUCT MOUNTED SMOKE DETECTOR C/W FIRE ALARM ZONE



02	SP	ISSUED FOR ADD E-2	JUN. 15, 2020
01	SP	ISSUED FOR TENDER	AUG. 02, 2019
NO.	BY	DESCRIPTION	DATE

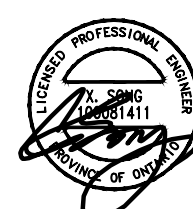
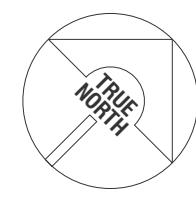
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TITLE
**4TH FLOOR PLAN
ELECTRICAL**

PROJECT
**BRAMPTON STACKED
FORESTSIDE ESTATES**

ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

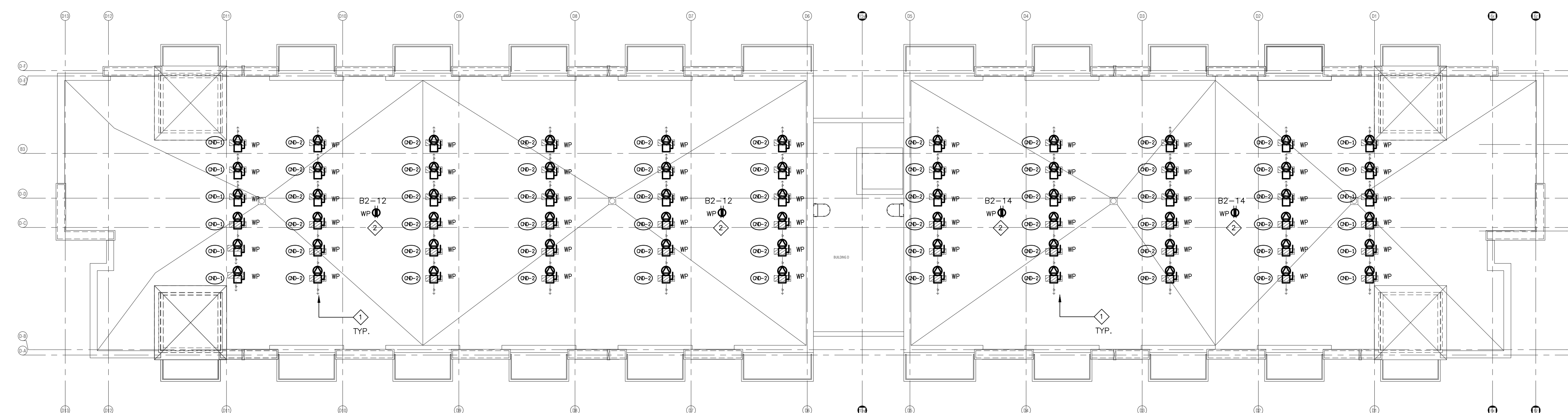
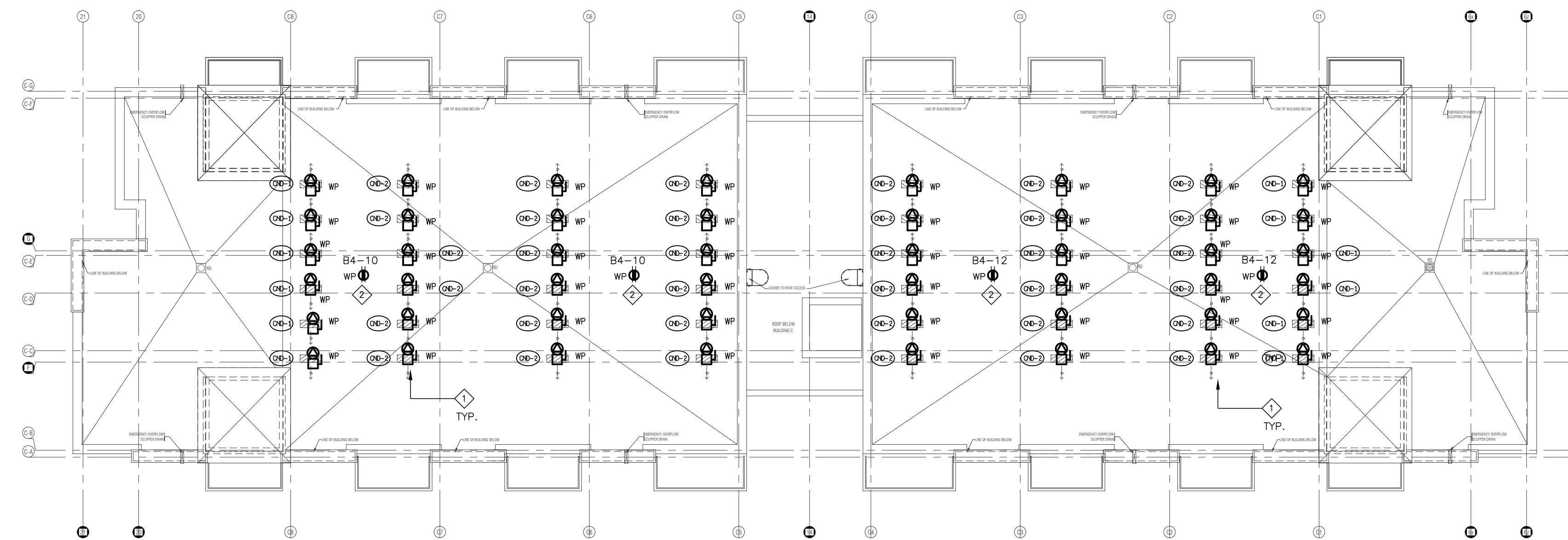
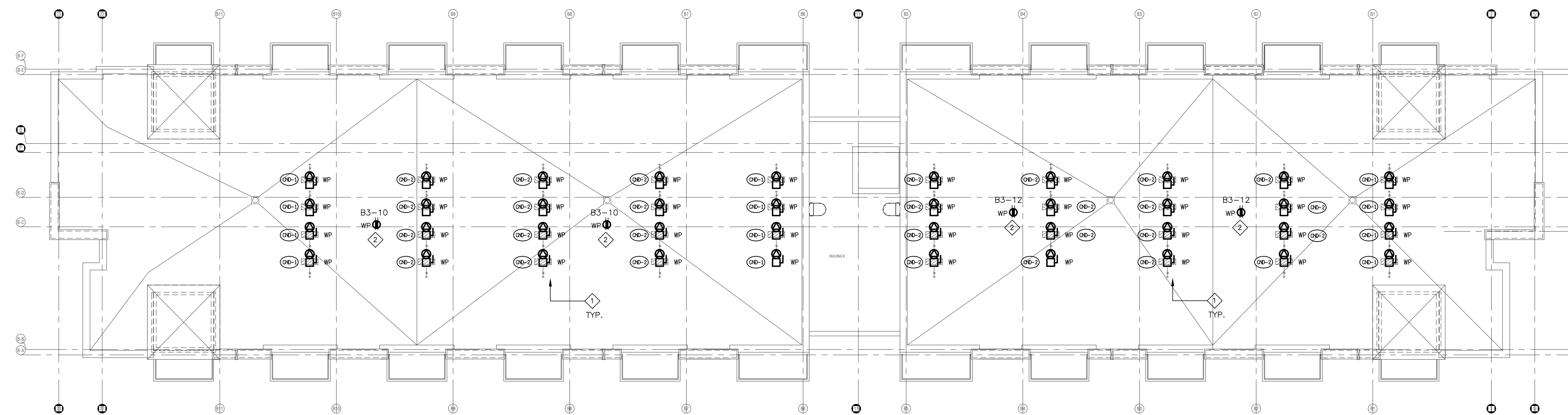
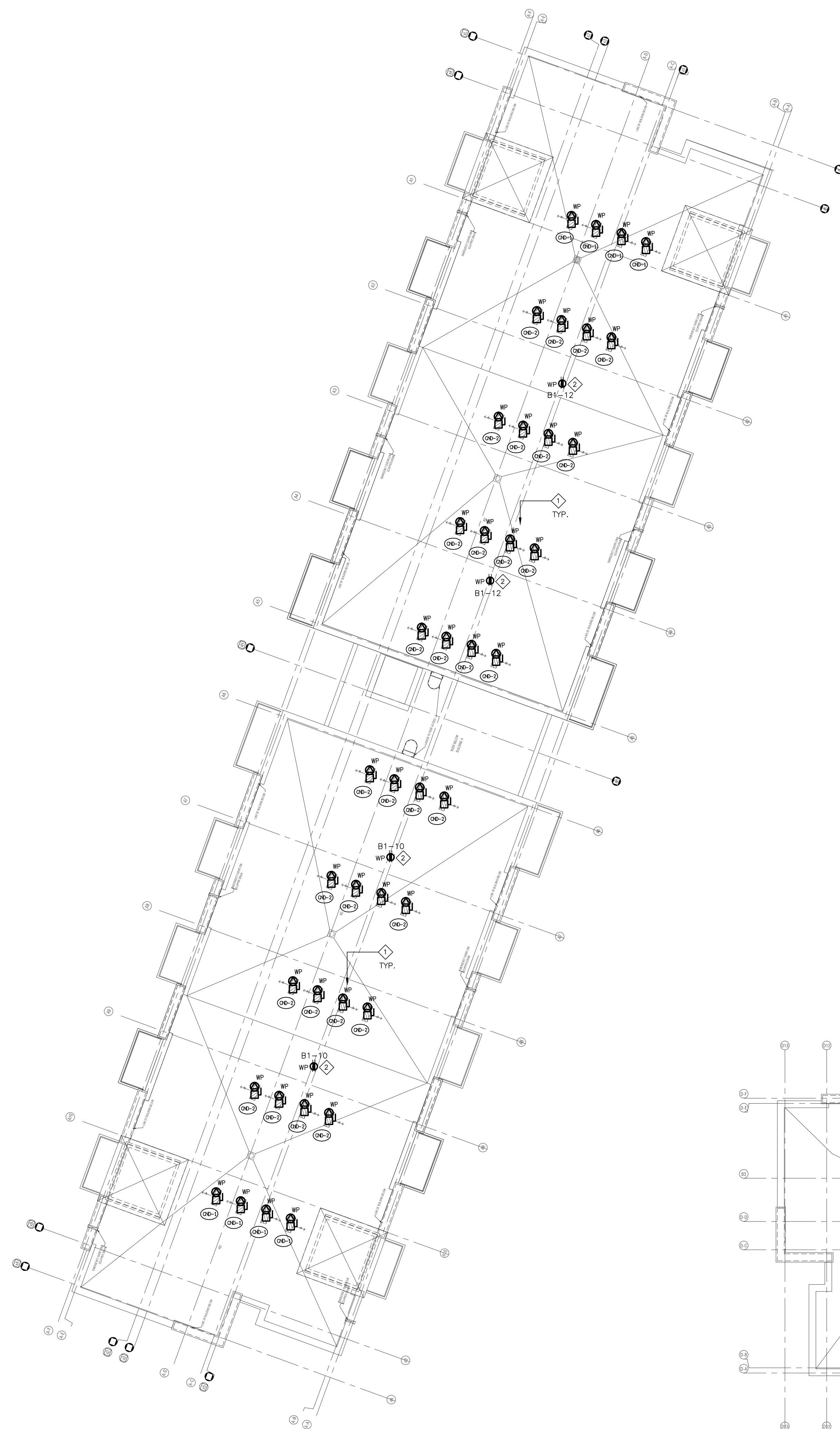
DRAWN	CHECKED	SCALE
SP	MG	1:50
DATE	PROJECT	DRAWING
MAY, 2019	18-017	E-6
		OF 16

1 CONDENSING UNIT FED FROM STACKED HOUSE SUITE PANEL.
REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND QUANTITY

2 WEATHER PROOF PEDESTAL MOUNTED RECEPTACLES

1 CONDENSING UNIT FED FROM STACKED HOUSE SUITE PANEL.
REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND QUANTITY

2 WEATHER PROOF PEDESTAL MOUNTED RECEPTACLES



02	SP	ISSUED FOR ADD E-2		JUN. 15, 2020
01	SP	ISSUED FOR TENDER		AUG. 02, 2019
NO.	BY	DESCRIPTION		DATE

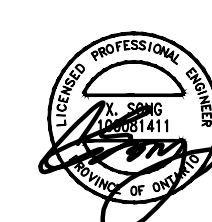
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TITLE	ROOF PLAN ELECTRICAL
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PROJECT

BRAMPTON STACKED
FORESTSIDE ESTATES

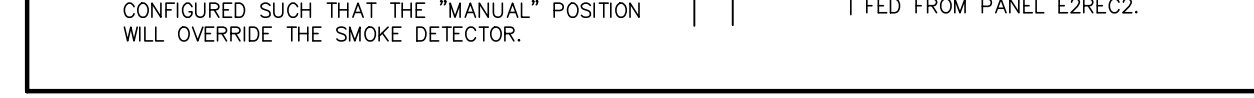
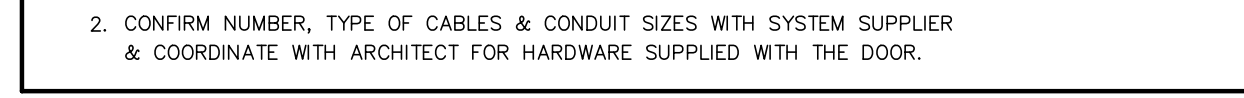
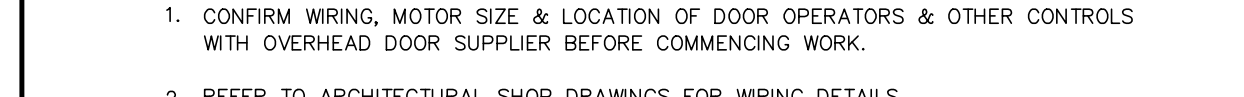
ATTMAR + PALLESCHI DRIVE
BRAMPTON, ONTARIO

DRAWN SP	CHECKED MG	SCALE 1:150
DATE MAY, 2019	PROJECT 18-017	DRAWING E-7
		OF 16

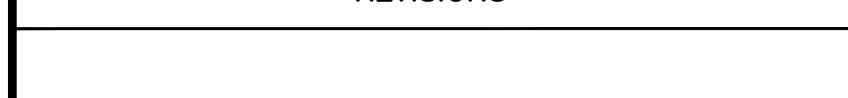
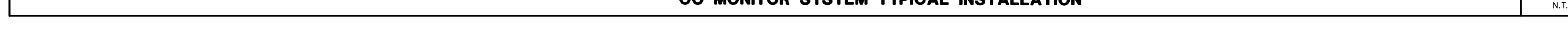
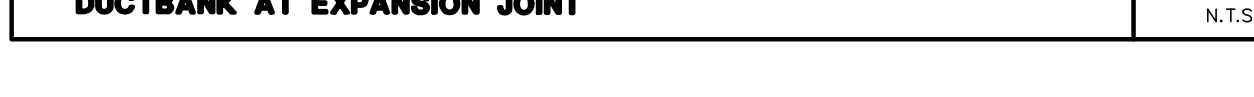


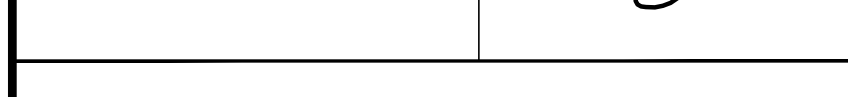
- 1 PATIO EXTERIOR LIGHTING ONLY ON GROUND FLOOR

DRAWN SP	CHECKED MG	SCALE 175
DATE MAY, 2019	PROJECT 18-017	DRAWING E-8 OF 16



ELECTRIC HEATER SCHEDULE	SCALE: N.T.S.
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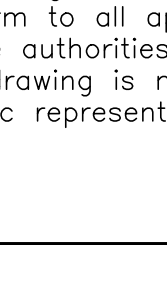
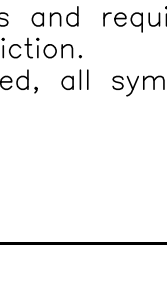
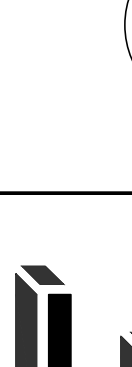
TITLE	DETAILS A
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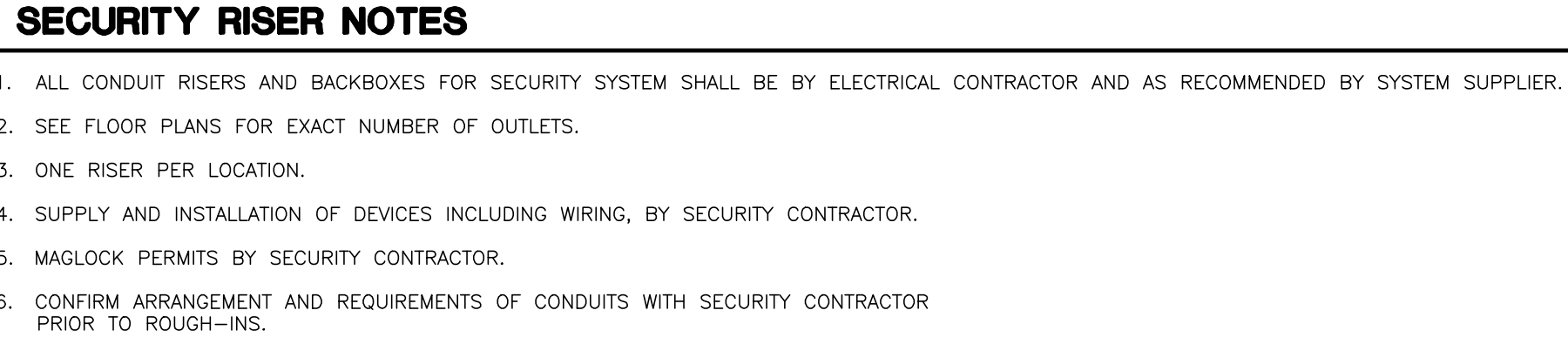
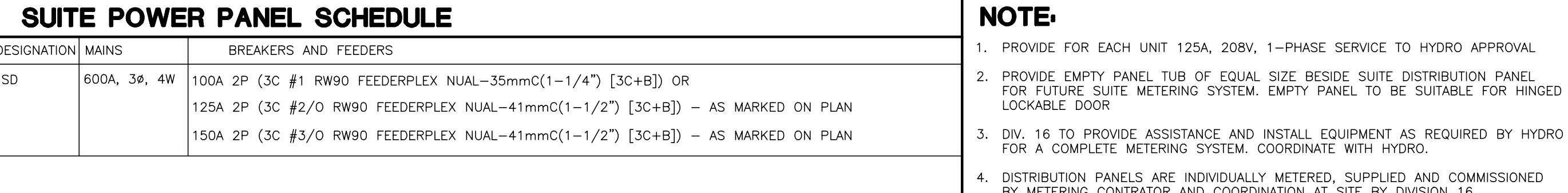
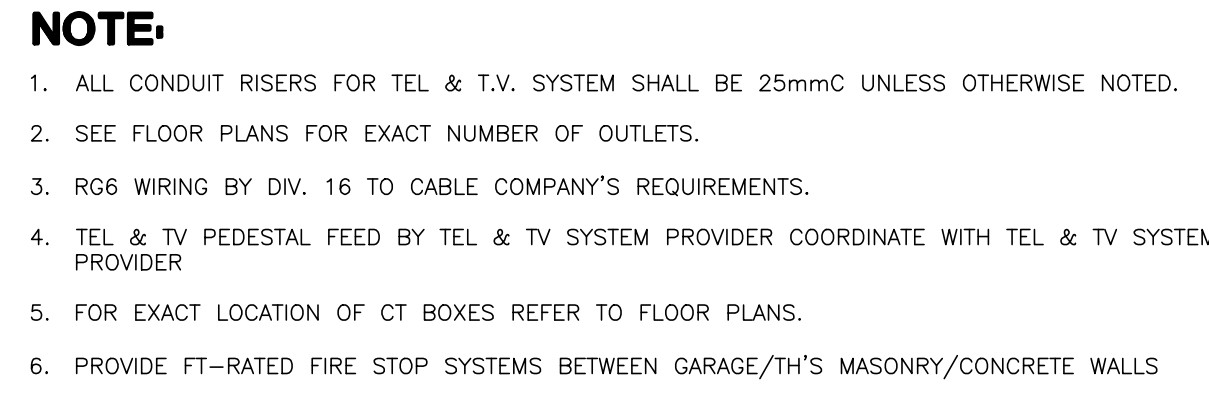
PROJECT	
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ATTMAR + PALLESCHI DRIVE

SP	MG	N.T.S.
DATE	PROJECT	DRAWING

		10
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02	SP	ISSUED FOR ADD E-2	JUN. 15, 20
01	SP	ISSUED FOR TENDER	AUG. 02, 20
NO.	BY	DESCRIPTION	DATE
REVISIONS			
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TITLE DETAILS B ELECTRICAL			
PROJECT BRAMPTON STACKED			



- WATER SUBMETERING NOTES**
(FOR INFORMATION ONLY, CONFIRM WITH MEETING SERVICE PROVIDER)

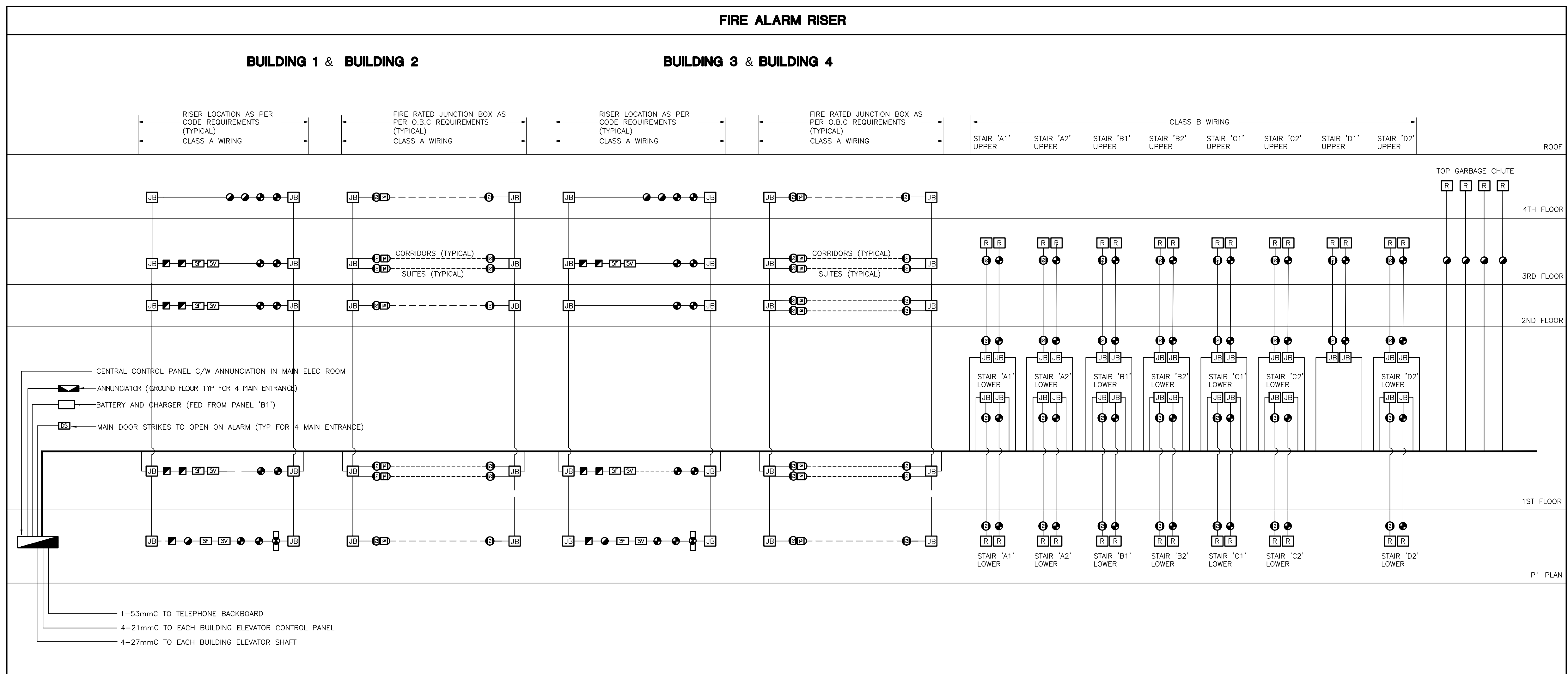
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01	SP	ISSUED FOR TENDER	AUG 02, 2019
NO.	BY	DESCRIPTION	DATE

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TITLE RISERS ELECTICAL			
PROJECT BRAMPTON STACKED FORESTSIDE ESTATES ATTMAR & PALLESCI DRIVE BRAMPTON, ONTARIO			
DRAWN SP	CHECKED MG	SCALE NTS	
DATE MAY, 2019	PROJECT 18-017	DRAWING E-10	OF 16

FIRE ALARM SCHEDULE	
ALARM ZONES	
CCT #	DESCRIPTION
1	PARKING GARAGE - P1
2	PARKING GARAGE - P1 LEVEL
3	ELEVATOR LOBBY BUILDING 1 - P1
4	ELEVATOR LOBBY BUILDING 2 - P1
5	ELEVATOR LOBBY BUILDING 3 - P1
6	ELEVATOR LOBBY BUILDING 4 - P1
7	MAIN ELECTRICAL ROOM - P1 LEVEL
8	SUB-ELECTRICAL ROOM A - P1 LEVEL
9	SUB-ELECTRICAL ROOM B - P1 LEVEL
10	SUB-ELECTRICAL ROOM C - P1 LEVEL
11	SUB-ELECTRICAL ROOM D - P1 LEVEL
12	COMMUNICATION ROOM - P1 LEVEL
13	MECHANICAL ROOM - P1 LEVEL
14	SPARE
15	GENERATOR ROOM - P1 LEVEL
16	GARAGE ROOM - P1 LEVEL
17	GARAGE ROOM - P1 LEVEL
18	GARAGE ROOM - P1 LEVEL
19	GARAGE ROOM - P1 LEVEL
20	GARAGE ROOM - P1 LEVEL
21-23	1ST FLOOR TO 4TH FLOOR (BUILDING 1)
24	ELEVATOR SHAFT (BUILDING 1)
25-26	1ST FLOOR (TWO ZONE PER FLOOR) (BUILDING 2)
27-29	2ND FLOOR TO 4TH FLOOR (BUILDING 2)
30-32	ELEVATOR SHAFT (BUILDING 2)
31-34	1ST FLOOR TO 4TH FLOOR (BUILDING 3)
35	ELEVATOR SHAFT (BUILDING 3)
36-39	1ST FLOOR TO 4TH FLOOR (BUILDING 4)
40	ELEVATOR SHAFT (BUILDING 4)
41	STAIR A1' UPPER STAIR
42	STAIR A1' TOP OF UPPER STAIR
43	STAIR A1' LOWER STAIR
44	STAIR A1' TOP OF LOWER STAIR
45	STAIR A2' UPPER STAIR
46	STAIR A2' TOP OF UPPER STAIR
47	STAIR A2' LOWER STAIR
48	STAIR A2' TOP OF LOWER STAIR
49	STAIR B1' UPPER STAIR
50	STAIR B1' TOP OF UPPER STAIR
51	STAIR B1' LOWER STAIR
52	STAIR B1' TOP OF LOWER STAIR
53	STAIR B2' UPPER STAIR
54	STAIR B2' TOP OF UPPER STAIR
55	STAIR B2' LOWER STAIR
56	STAIR B2' TOP OF LOWER STAIR
57	STAIR C1' UPPER STAIR
58	STAIR C1' TOP OF UPPER STAIR
59	STAIR C1' LOWER STAIR
60	STAIR C1' TOP OF LOWER STAIR
61	STAIR C2' UPPER STAIR
62	STAIR C2' TOP OF UPPER STAIR
63	STAIR C2' LOWER STAIR
64	STAIR C2' TOP OF LOWER STAIR
65	STAIR D1' UPPER STAIR
66	STAIR D1' TOP OF UPPER STAIR
67	STAIR D2' UPPER STAIR
68	STAIR D2' TOP OF UPPER STAIR
69	STAIR D2' LOWER STAIR
70	STAIR D2' TOP OF LOWER STAIR
71	FRESH AIR UNIT DUCT DETECTOR (BUILDING 1)
72	FRESH AIR UNIT DUCT DETECTOR (BUILDING 2)
73	FRESH AIR UNIT DUCT DETECTOR (BUILDING 3)
74	FRESH AIR UNIT DUCT DETECTOR (BUILDING 4)
75	SPARE
76	MAIN SPRINKLER FLOW ALARM
77	PARKING GARAGE LEVEL -1 SPRINKLER FLOW ALARM
78	WET SPRINKLER LINE TO GARAGE ROOM FLOW ALARM
79	WET SPRINKLER LINE TO GARAGE ROOM FLOW ALARM
80	WET SPRINKLER LINE TO GARAGE ROOM FLOW ALARM
81	WET SPRINKLER LINE TO GARAGE ROOM FLOW ALARM
82	WET SPRINKLER LINE TO GARAGE ROOM FLOW ALARM
83	SPARE
84	BUILDING 1 SPRINKLER SYSTEM FLOW ALARM
85	BUILDING 2 SPRINKLER SYSTEM FLOW ALARM
86	BUILDING 3 SPRINKLER SYSTEM FLOW ALARM
87	BUILDING 4 SPRINKLER SYSTEM FLOW ALARM
88	SPRINKLER RISER IN GARAGE CHUTE FLOW ALARM (BUILDING 1)
89	SPRINKLER RISER IN GARAGE CHUTE FLOW ALARM (BUILDING 2)
90	SPRINKLER RISER IN GARAGE CHUTE FLOW ALARM (BUILDING 3)
91	SPRINKLER RISER IN GARAGE CHUTE FLOW ALARM (BUILDING 4)
92	SPARE
93	SPARE
94	SPARE 255



TROUBLE ZONES

COT #	DESCRIPTION
1	MAIN INCOMING SPRINKLER LINE LOSS OF PRESSURE - 1
2	MAIN INCOMING SPRINKLER LINE LOSS OF PRESSURE - 2
3	GEN-SET-COMMON TROUBLE
4	GENERATOR BREAKER "OFF"
5	GENERATOR RUNNING
6	LOSS OF PRESSURE OF INCOMING GAS LINE FOR GENSET
7	LOSS OF PRESSURE OF GAS LINE TO GENSET
8	FIRE LINES TRACING POWER LOSS
9	COMPRESSOR LOSS OF POWER
10	COMPRESSOR LOSS OF AIR
11-12	DRY SPRINKLER LOSS OF AIR PRESSURE IN P1 PARKING LEVEL
13	TRANSFER SWITCH #1 NOT IN 'AUTO'
14	LOW TEMP. T-SSTAT IN MECHANICAL ROOM - P1 LEVEL
15	HIGH CO LEVEL DETECTION IN PARKING GARAGE
16	PIPE TRACING LOSS OF POWER **
17	SNOW MELTING LOSS OF POWER **
18	SPARE 25%
	** NUMBER OF ZONES TO SUIT CODE REQUIREMENT

FIRE ALARM RISER NOTES

1. PROVIDE WIRING FOR SPRINKLER FLOW SWITCHES, PRESSURE SWITCHES AND SUSTAINED VOLUMES (NOT SHOWN ON ELECTRICAL DRAWINGS; EXACT LOCATION SHALL BE VERIFIED ON SITE) AND CONNECT TO CORRESPONDING ZONE OF FIRE ALARM SYSTEM.
2. PROVIDE END OF LINE RESISTOR FOR EACH ZONE.
3. SEE FLOOR PLANS FOR EXACT NUMBER AND LOCATION OF FIRE ALARM DEVICES.
4. FIRE ALARM PULL STATIONS SHALL BE RED IN COLOR, MOUNTING HEIGHT: 1200MM AFT.
5. SEE ALSO APPLICABLE NOTES DETAILS AND SEQUENCE OF OPERATION ON 'DETAILS' DRAWINGS.
6. ALL F/A SIGNAL WIRING SHALL BE WIRED TO CONFORM TO CLASS 'A' STANDARDS.
7. FIRE ALARM SPEAKER CIRCUITS TO BE CLASS A.
8. PROVIDE SEPARATE SECOND CLASS A SIGNAL CIRCUIT FOR FLOOR SO THAT ONE CIRCUIT IS FOR THE CORRIDORS AND ONE CIRCUIT IS FOR THE SUITES.
9. FIRE ALARM CALL CALL FROM MANUAL DEVICES AND AUTOMATICALLY INITIATED DEVICES TO BE AS PER CODE AND TISA REQUIREMENTS.
10. ADD CONTROL PANEL EXPANSION BOX AS PER MANUFACTURERS RECOMMENDATIONS AND SYSTEM REQUIREMENTS WITHIN BUILDING CLOSET TO HAVE A COMPLETE AND FULLY FUNCTIONAL INTEGRATED FIRE ALARM SYSTEM.
11. ALLOW FOR ALL COSTS ASSOCIATED WITH VERIFICATION AS REQUIRED.
12. ELECTRICAL SUPERVISION

ELECTRICAL SUPERVISION OF THE AUTOMATIC SPRINKLER/CONTROL PANEL FOR THE FOLLOWING:

- MOVEMENT OF A VALVE MANIFOLD THAT CONTROLS THE SUPPLY OF WATER TO SPRINKLERS, AND
- LOSS OF EXCESS WATER PRESSURE REQUIRED TO PREVENT FALSE ALARMS IN A WET SYSTEM,
- LOSS OF AIR PRESSURE IN A DRY PIPE,
- LOSS OF POWER TO AN AUTOMATICALLY STARTING FIRE PUMP,
- A TEMPERATURE APPROACHING THE FREEZING POINT IN A DRY PIPE WATER ENCLOSURE,
- LOSS OF POWER TO A HEAT TRACING CABLE SERVICING:
 - A STANDPIPE RISER
 - A SPRINKLER LINE,
 - AN EXT OR MEANS OF EGRESS TO KEEP IT FREE FROM ICE AND SNOW

FIRE ALARM SCHEDULE NOTES

1. PROVIDE OFF-AUTO SELECTOR SWITCHES IN ANNUNCIATOR PANEL FOR REMOTE CONTROL OF MUA'S, GARAGE EXHAUST FANS, PRESSURIZATION FANS, AND CONTROL FOR ALL ELEVATOR AND STAIR PRESSURIZATION AS WELL AS THE FAN/STAIR PRESSURIZATION EXHAUST SYSTEM.
2. PROVIDE FAN/STAIR CORRIDOR RELAYS TO DE-ENERGIZE ALL SUPPLY FANS (EXCEPT MUA'S TO PUBLIC CORRIDORS) ON FIRE ALARM. MUA'S TO PROVIDE MAKE UP AIR TO PUBLIC CORRIDORS TO REMAIN OPERATIONAL AFTER THE ACTIVATION OF THE FIRE ALARM.
3. ELEVATOR RECALL ADJACENT CENTRAL FACILITY.
4. ELEVATOR INTERCOM ADJACENT CENTRAL FACILITY.
5. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF SUPERVISED VALVES.
6. SYSTEM TO CONFORM WITH O.B.C. SECTION 3.2.4.16 AND TO LOCAL AUTHORITY HAVING JURISDICTION.
7. ALL AUDIOIBLE SIGNAL WIRING TO CONFORM TO CLASS 'A' SPECIFICATIONS.
8. IN SUITE WHERE APPLICABLE THE SPEAKERS SHALL BE CAPABLE TO BE SILENCED AS REQUIRED BY CODES OR THE EQUIPMENT SHALL BE IN ACCORDANCE WITH OBC 3.2.4.18(15).

ELECTRICALLY SUPERVISED VALVE SCHEDULE					
SUPERVISED VALVE NO.	SYSTEM	LOCATION	SUPERVISED VALVE NO.	SYSTEM	LOCATION
(S.V.#1)	INLET DOUBLE CHECK VALVE ASSEMBLY ISOLATION	METER ROOM	(S.V.#6)	BUILDING '3' GARAGE CHUTE SYSTEM ISOLATION	PARKING GARAGE
(S.V.#2)	OUTLET DOUBLE CHECK VALVE ASSEMBLY ISOLATION	METER ROOM	(S.V.#17)	BUILDING '3' SPRINKLER SYSTEM ISOLATION	BUILDING '3' 1ST FLOOR
(S.V.#3)	WET SYSTEM ISOLATION	METER ROOM	(S.V.#18)	ISOLATION FSP BUILDING 2	PARKING GARAGE
(S.V.#4)	P-1 LEVEL WEST U/G GARAGE DRY SPRINKLERS	METER ROOM	(S.V.#19)	ISOLATION FSP BUILDING 2	PARKING GARAGE
(S.V.#5)	P-1 LEVEL WEST U/G GARAGE DRY SPRINKLERS	METER ROOM	(S.V.#20)	ISOLATION FSP BUILDING 2	PARKING GARAGE
(S.V.#6)	ISOLATION FSP BUILDING 4	PARKING GARAGE	(S.V.#21)	ISOLATION FSP PARKING GARAGE	PARKING GARAGE
(S.V.#7)	ISOLATION FSP BUILDING 4	PARKING GARAGE	(S.V.#22)	BUILDING '2' GARAGE CHUTE SYSTEM ISOLATION	PARKING GARAGE
(S.V.#8)	ISOLATION FSP BUILDING 4	PARKING GARAGE	(S.V.#23)	BUILDING '2' SPRINKLER SYSTEM ISOLATION	BUILDING '2' 1ST FLOOR
(S.V.#9)	ISOLATION FSP PARKING GARAGE	PARKING GARAGE	(S.V.#24)	ISOLATION FSP BUILDING 1	PARKING GARAGE
(S.V.#10)	BUILDING '4' GARAGE CHUTE SYSTEM ISOLATION	PARKING GARAGE	(S.V.#25)	ISOLATION FSP BUILDING 1	PARKING GARAGE
(S.V.#11)	BUILDING '4' SPRINKLER SYSTEM ISOLATION	BUILDING '4' 1ST FLOOR	(S.V.#26)	ISOLATION FSP BUILDING 1	PARKING GARAGE
(S.V.#12)	ISOLATION FSP BUILDING 3	PARKING GARAGE	(S.V.#27)	ISOLATION FSP PARKING GARAGE	PARKING GARAGE
(S.V.#13)	ISOLATION FSP BUILDING 3	PARKING GARAGE	(S.V.#28)	BUILDING '1' GARAGE CHUTE SYSTEM ISOLATION	PARKING GARAGE
(S.V.#14)	ISOLATION FSP BUILDING 3	PARKING GARAGE	(S.V.#29)	BUILDING '1' SPRINKLER SYSTEM ISOLATION	BUILDING '1' 1ST FLOOR
(S.V.#15)	ISOLATION FSP PARKING GARAGE	PARKING GARAGE		SPARE	
	SPARE			SPARE	
				SPARE 25%	
NOTE:					
1. PROVIDE ALLOWANCE FOR ADDITIONAL SUPERVISED VALVES UPON SUBMISSION OF SPRINKLER SHOP DRAWINGS					

02	SP	ISSUED FOR ADD E-2			JUN. 15, 2020
01	SP	ISSUED FOR TENDER			AUG. 02, 2019
NO.	BY	DESCRIPTION			DATE

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.



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TITLE FIRE ALARM SYSTEM ELECTRICAL			
PROJECT BRAMPTON STACKED FORESTSIDE ESTATES			
ATTMAR + PALLESCHI DRIVE BRAMPTON, ONTARIO			
DRAWN BY DATE MAY, 2019	CHECKED MG PROJECT 18-017	SCALE NTS	DRAWING E-11
	OF		16

PANEL IDENTIF:	G				SERVICE: MAIN CTT, BRK: 600V/347V, 3ø, 4W MANS: 225 AMPS SURFACE MOUNTING:	NOTES:			
LOAD DESCRIPTION	WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION	WATTS	BRK	WATTS
LIGHTING – GARAGE (P1)	15A	1	2	15A		LIGHTING – GARAGE (P1)	15A	1	2
LIGHTING – GARAGE (P1)	15A	3	4	15A		LIGHTING – GARAGE (P1)	15A	3	4
LIGHTING – GARAGE (P1)	15A	5	6	15A		LIGHTING – GARAGE (P1)	15A	5	6
LIGHTING – GARAGE (P1)	15A	7	8	15A		LIGHTING – GARAGE (P1)	15A	7	8
SPARE	15A	9	10	15A		SPARE	15A	9	10
	15A	11	12	15A			15A	11	12
	15A	13	14	15A			15A	13	14
	15A	15	16	15A			15A	15	16
	15A	17	18	15A			15A	17	18
	15A	19	20	15A			15A	19	20
	15A	21	22	15A			15A	21	22
	15A	23	24	15A			15A	23	24
	15A	25	26	15A			15A	25	26
SPACE	15A	27	28			SPACE	15A	27	28
	15A	29	30				15A	29	30
	15A	31	32				15A	31	32
	15A	33	34				15A	33	34
	15A	35	36				15A	35	36
	15A	37	38				15A	37	38
	15A	39	40				15A	39	40
	15A	41	42				15A	41	42

PANEL IDENTIF:	B1				SERVICE: MAIN CTT, BRK: 208V/120V, 3ø, 4W MANS: 400 AMPS SURFACE MOUNTING:	NOTES: 60 CIRCUITS			
LOAD DESCRIPTION	WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION	WATTS	BRK	WATTS
LIGHTING – LOCKERS (P1)	15A	1	2	15A		RECEPTACLES – STAR A (2RD-3RD)	15A	1	2
LIGHTING – LOCKERS (P1)	15A	3	4	15A		RECEPTACLES – STAR B (2RD-3RD)	15A	3	4
REC – STORAGE (P1)	15A	5	6	15A		RECEPTACLES – CORRIDOR (2RD-3RD)	15A	5	6
REC – SUB ELEC RM D (P1)	15A	7	8	15A		RECEPTACLES – CORRIDOR (3RD)	15A	7	8
LIGHTING – GARAGE, RM (P1)	15A	9	10	15A		RECEPTACLES – ROOF LEVEL	15A	9	10
REC – LOCKER (P1)	20A	11	12	15A		RECEPTACLES – ROOF LEVEL	20A	11	12
REC – STAR A & B (P1)	15A	13	14	15A		LIGHTING – JANITOR ROOM	15A	13	14
REC – GARAGE, RM (P1)	15A	15	16	100A		SPLIT SYSTEM BLOWER & COIL	15A	15	16
REC – LOCKER (P1)	15A	17	18	2P		1-5 C/W 15W HEATER	15A	17	18
REC – LOCKER & LOBBY (P1)	15A	19	20	30A		4.8 KW ELECTRIC FORCE HEATER	15A	19	20
REC – SERVICE ROOM (P1)	15A	21	22	2P		H-3	15A	21	22
TRISORTOR CONTROL PANEL	20A	23	24	30A		4.8 KW ELECTRIC FORCE HEATER	20A	23	24
BATTERY UNIT	15A	25	26	2P		H-3	15A	25	26
H-1 12KW ELECTRIC HEATER	80A	27	28	30A		SPLIT SYSTEM CONDENSER UNIT	80A	27	28
	2P	29	30			E-6	2P	29	30
H-1 12KW ELECTRIC HEATER	80A	31	32	15A		GENERATOR RM MOTORIZED DAMPER	80A	31	32
	15A	33	34	15A		SMART BOX FOR DELIVERIES	15A	33	34
1.0KW BASEBOARD HEATER	15A	35	36	15A		RECEPTACLES – CORRIDOR (2RD)	15A	35	36
1.0KW BASEBOARD HEATER	15A	37	38	15A		RECEPTACLES – CORRIDOR (2RD)	15A	37	38
REC – TELECOM	15A	39	40	15A		LIGHTING – LOCKERS (3RD)	15A	39	40
REC – TELECOM	15A	41	42	15A		SPARE	15A	41	42

PANEL IDENTIF:	B4				SERVICE: MAIN CTT, BRK: 208V/120V, 3ø, 4W MANS: 400 AMPS SURFACE MOUNTING:	NOTES: 60 CIRCUITS			
LOAD DESCRIPTION	WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION	WATTS	BRK	WATTS
LIGHTING – GARAGE, RM (P1)	15A	1	2	15A		RECEPTACLES – STAR E (P1-3RD)	15A	1	2
REC – SUB ELEC RM (P1)	15A	3	4	15A		RECEPTACLES – STAR F (P1-3RD)	15A	3	4
REC – GARAGE, RM (P1)	15A	5	6	15A		RECEPTACLES – CORRIDOR (2RD-3RD)	15A	5	6
REC – LOBBY (P1)	15A	7	8	15A		RECEPTACLES – CORRIDOR (2RD-3RD)	15A	7	8
LIGHTING – PUBLIC RM. (2ND)	15A	9	10	15A		RECEPTACLES – ROOF LEVEL	15A	9	10
REC – ELEVATOR CONTROL RM (P1)	15A	11	12	15A		RECEPTACLES – ROOF LEVEL	15A	11	12
TRISORTOR CONTROL PANEL	20A	13	14	100A		SPLIT SYSTEM BLOWER & COIL	20A	13	14
H-1 12KW ELECTRIC HEATER	80A	15	16	2P		1-5 C/W 15W HEATER	80A	15	16
	2P	17	18	30A		4.8 KW ELECTRIC FORCE HEATER	2P	17	18
H-1 12KW ELECTRIC HEATER	80A	19	20	2P		H-3	80A	19	20
	2P	21	22	30A		4.8 KW ELECTRIC FORCE HEATER	2P	21	22
1.0KW BASEBOARD HEATER	15A	23	24	2P		H-3	15A	23	24
1.0KW BASEBOARD HEATER	15A	25	26	30A		SPLIT SYSTEM CONDENSER UNIT	15A	25	26
REC – TELECOM	15A	27	28	2P		E-6	15A	27	28
REC – TELECOM	15A	29	30	15A		SMART BOX FOR DELIVERIES	15A	29	30
SPARE	15A	31	32	15A		RECEPTACLES – CORRIDOR (2RD-3RD)	15A	31	32
	15A	33	34	15A		RECEPTACLES – CORRIDOR (2RD-3RD)	15A	33	34
	15A	35	36	15A		LIGHTING – LOCKER (3RD)	15A	35	36
	15A	37	38	15A		SPARE	15A	37	38
	15A	39	40	15A			15A	39	40
	15A	41	42	15A			15A	41	42

PANEL IDENTIF:	EB3				SERVICE: MAIN CTT, BRK: 208V/120V, 3ø, 4W MANS: 225 AMPS SURFACE MOUNTING:	NOTES: LOCK ON BREAKER			
LOAD DESCRIPTION	WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION	WATTS	BRK	WATTS
LIGHTING – LOBBY ELEVATORS	15A	1	2	15A		EXIT SIGNS – (P1) ***	15A	1	2
LIGHTING – ELEC RM (P1)	15A	3	4	15A		EXIT SIGNS – (GRD-3RD) ***	15A	3	4
LIGHTING – LOCKER RM	15A	5	6	15A		LIGHTING – STAR C (P1-3RD)	15A	5	6
LGT. – GARAGE, RM (P1)	15A	7	8	15A		LIGHTING – STAR D (P1-3RD)	15A	7	8
LGT. – SERVICE ROOM (P1)	15A	9	10	15A		LIGHTING – GRD FLOOR LOBBY	15A	9	10
RECEPTACLES – ELEVATOR PIT	15A	11	12	15A		LIGHTING – 3RD FLOOR LOCKER	15A	11	12
RECEPTACLES – ELEVATOR PIT	15A	13	14	15A		LIGHTING – CORRIDOR (3RD)	15A	13	14
AUTO DOOR OPENERS	15A	15	16	15A		LIGHTING – CORRIDOR (3RD)	15A	15	16
AUTO DOOR OPENERS	15A	17	18	15A		LIGHTING – TOP OF ELEVATOR SHAFT	15A	17	18
ENTERPHONE	15A	19	20	15A		REC – TOP OF ELEVATOR SHAFT	15A	19	20
LIGHTING – GARAGE CHUTE	15A	21	22	15A		LIGHTING – CORRIDOR (GRD)	15A	21	22
AUTO DOOR OPENERS	15A	23	24	15A		SPARE	15A	23	24
SPARE	15A	25	26	15A			15A	25	26
	15A	27	28	15A			15A	27	28
	15A	29	30	15A			15A	29	30
	15A	31	32	15A			15A	31	32
	15A	33	34	15A		SPACE	15A	33	34
	15A	35	36				15A	35	36
	15A	37	38				15A	37	38
	15A	39	40				15A	39	40
	15A	41	42				15A	41	42

PANEL IDENTIF:	M2				SERVICE: MAIN CTT, BRK: 208V/120V, 3ø, 4W MANS: 400 AMPS SURFACE MOUNTING:	NOTES:			
LOAD DESCRIPTION	WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION	WATTS	BRK	WATTS
EX. FAN F-20 (LOCKER RM-P1)	15A	1	2	20A		SPLITTER SYSTEM CONDENSING UNIT (P1)	15A	1	2
EX. FAN F-24 (SUB ELEC RM-B-P1)	20A	3	4	2P			20A	3	4
EX. FAN F-XX (SUB ELEC RM-C-P1)	20A	5	6	25A		SPLITTER SYSTEM CONDENSING UNIT (P1)	20A	5	6
EX. FAN F-22 (B.W.H. RM-P1)	15A	7	8	2P			15A	7	8
EX. FAN F-23 (GARAGE RM-P1)	15A	9	10	20A		SPLITTER SYSTEM BLOWER & COIL (P1)	15A	9	10
EX. FAN F-24 (STORAGE RM-P1)	15A	11	12	2P			15A	11	12
EX. FAN F-25 (B.W.H. RM-P1)	15A	13	14	15A		SPLITTER SYSTEM BLOWER & COIL (P1)	15A	13	14
EX. FAN F-26 (GARAGE RM-P1)	15A	15	16	2P			15A	15	16
H-2 BRK ELECTRIC HEATER	50A	17	18	20A		SPLITTER SYSTEM CONDENSING UNIT (P1)	50A	17	18
	2P	19	20	2P			2P	19	20
H-2 BRK ELECTRIC HEATER	50A	21	22	25A		SPLITTER SYSTEM CONDENSING UNIT (P1)	50A	21	22
	2P	23	24	2P			2P	23	24
EX. FAN F-9 (STORAGE RM-3RD FL)	15A	25	26	20A		SPLITTER SYSTEM CONDENSING UNIT (P1)	15A	25	26
EX. FAN F-9 (STORAGE RM-3RD FL)	15A	27	28	2P			15A	27	28
HWT-4 (WASH RM-3RD FL)	15A	29	30	15A		SPLITTER SYSTEM BLOWER & COIL (P1)	15A	29	30
HWT-4 (WASH RM-3RD FL)	15A	31	32	2P			15A	31	32
HWT-4 (WASH RM-2N FL)	15A	33	34	25A		ELEVATOR SLUMP PUMP	15A	33	34
SPARE	15A	35	36	25A		ELEVATOR SLUMP PUMP	15A	35	36
	15A	37	38	15A		SPARE	15A	37	38
	15A	39	40	15A			15A	39	40
	15A	41	42	15A			15A	41	42
	15A	43	44	15A			15A	43	44
	15A	45	46	15A			15A	45	46
	15A	47	48	15A			15A	47	48
	15A	49	50	15A			15A	49	50
	15A	51	52	15A			15A	51	52
	15A	53	54	15A			15A	53	54
	15A	55	56	15A			15A	55	56
	15A	57	58	15A			15A	57	58
	15A	59	60	15A			15A	59	60

PANEL IDENTIF:	EG				SERVICE: MAIN CTT, BRK: 600V/347V, 3ø, 4W MANS: 225 AMPS SURFACE MOUNTING:	NOTES: *** LOCK ON BREAKER			
LOAD DESCRIPTION	WATTS	BRK	CIRCUITS	BRK	WATTS	LOAD DESCRIPTION	WATTS	BRK	WATTS
LIGHTING – GARAGE (P1)	15A	1	2	15A		EXIT SIGNS *** – GARAGE (P1)	15A	1	2
LIGHTING – GARAGE (P1)	15A	3	4	15A		EXIT SIGNS *** – GARAGE (P1)	15A	3	4
LIGHTING – GARAGE (P1)	15A	5	6	15A		LIGHTING – GARAGE (P1)	15A	5	6
SPARE	15A	7	8	15A		LIGHTING – GARAGE (P1)	15A	7	8
	15A	9	10	15A		LIGHTING – GARAGE (P1)	15A	9	10
	15A	11	12	15A		SPARE	15A	11	12
	15A	13	14	15A			15A	13	14
	15A	15	16	15A			15A	15	16
	15A	17	18	15A			15A	17	18
	15A	19	20	15A			15A	19	20
	15A	21	22	15A			15A	21	22
	15A	23	24	15A			15A	23	24
SPACE	15A	25	26			SPACE	15A	25	26
	15A	27	28				15A	27	28
	15A	29	30				15A	29	30
	15A	31	32				15A	31	32
	15A	33	34				15A	33	34
	15A	35	36				15A	35	36
	15A	37	38				15A	37	38
	15A	39	40				15A	39	40
	15A	41	42				15A	41	42

PANEL IDENTIF:	B2				SERVICE: MAIN CTT, BRK: 208V/120V, 3ø, 4W MANS: 400 AMPS SURFACE MOUNTING:	NOTES: 60 CIRCUITS			
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