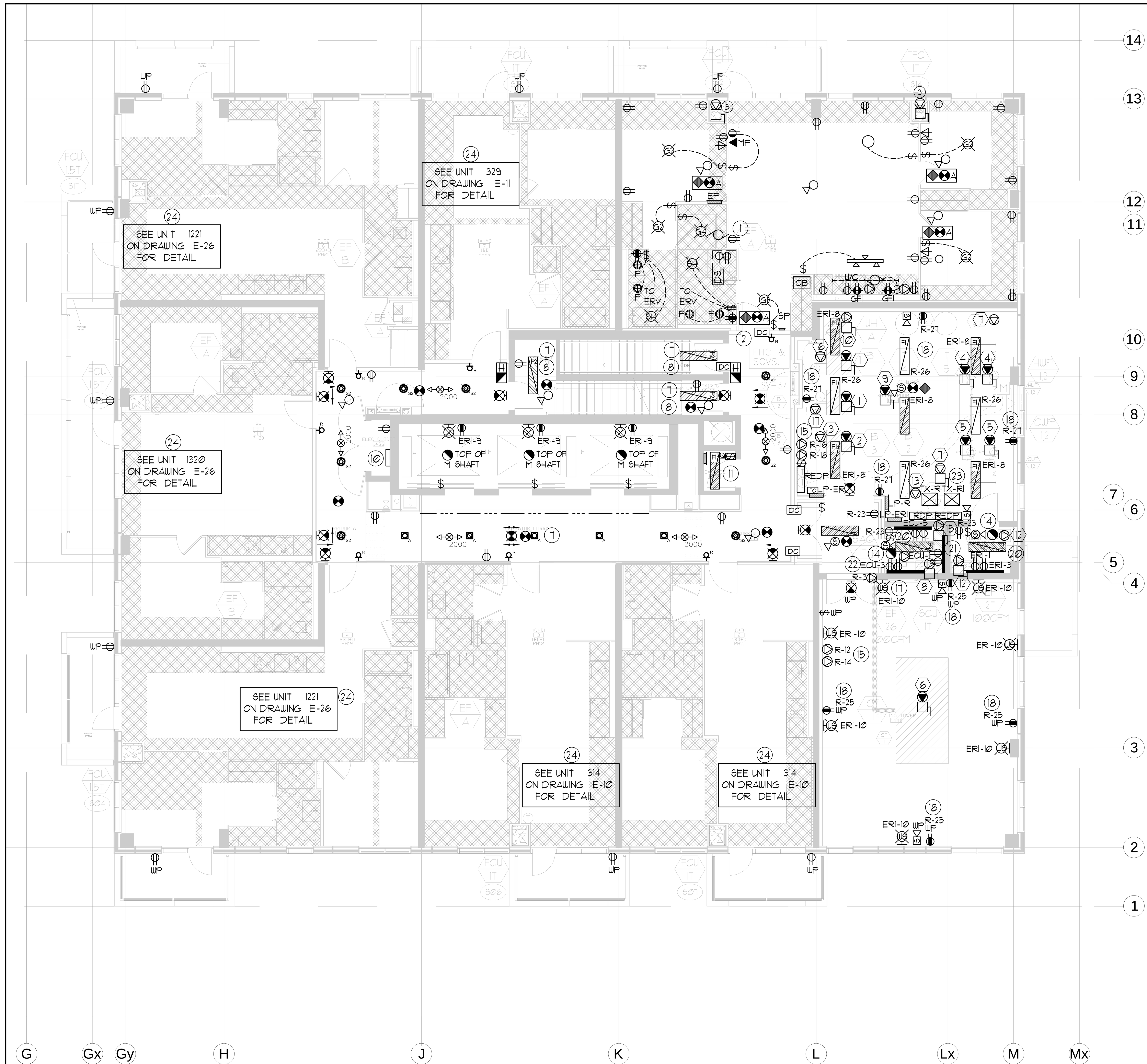


EQUIPMENT & CONNECT LIST

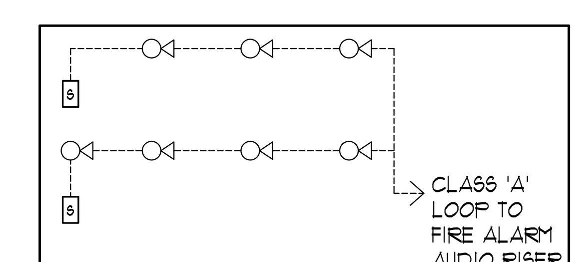
1. B-1 & 2 — 575V, 3ϕ, 3HP — CONN. TO "REDPI".
2. B-3, — 575V, 3ϕ, 1.5HP — CONN. TO "REDPI".
3. B-3 IGNITION — 120V, 1ϕ, 11A — CONN. TO "ERI-6".
4. HWP-1&2, — 575V, 3ϕ, 15HP — CONN. TO "REDPI".
5. CWP-1&2, — 575V, 3ϕ, 30HP — CONN. TO "RDP".
6. CT-1 — 575V, 3ϕ, 10HP — CONN. TO "RDP".
7. EF-22 & MD — 120V, 1ϕ, 1/3HP — CONN. TO "R-6".
8. SCU — 208V, 1ϕ, 9MCA — CONN. TO "R-40,42".
9. DHWRP-2 — 575V, 3ϕ, 1/2HP — CONN. TO "REDPI".
10. UH-A — 120V, 1ϕ, 1/12HP — CONN. TO "R-4".
11. EF-26 — 120V, 1ϕ, 1/6HP — CONN. TO "R-31".
12. EF-27 — 120V, 1ϕ, 1/12HP — CONN. TO "R-33".
13. CHEMICAL PUMP — 120V, 1ϕ, HP — CONN. TO "R-1".
14. HB-2 — 240V, 1ϕ, 3HP — CONN. TO "ERI-12,14".
15. SAC — 208V, 1ϕ, HP — CONN. TO "R-36,38"
16. B-1 IGNITION — 240V, 1ϕ, 16A — CONN. TO "ERI-11,13".
17. B-2 IGNITION — 240V, 1ϕ, 16A — CONN. TO "ERI-12,14".

GENERAL AREA CIRCUITING - TABLE #1

LIGHTING FIXTURE LOCATION	CCT. #
P2 TO P1 - EXIT SIGNS	E-1
G/F TO MPH - EXIT SINGS	E-3
MPH - EXIT SIGNS	ER-1
STAIR "A" (P2 TO G/F)	E-5
STAIR "B" (P2 TO G/F)	E-7
STAIR "J" (G/F TO 4/F)	E-9
STAIR "J" (5/F TO 9/F)	E-11
STAIR "G" (G/F TO 14/F)	E-13
STAIR "F" (G/F TO 14/F)	E-15
STAIR "K" (14F TO MPH) & MPH	ER-3,ER-5,R-17,R-19
(G/F)	E-2,E-4,E-6,E-16,E-8,E-10,E-12,E-14,E-16
(G/F)	BI-2,BI-4,BI-6,BI-8,BI-10,BI-12,BI-14,BI-16, BI-18,BI-20,BI-22,BI-24,BI-26,BI-28,BI-30,
CORRIDOR (2/F & 3/F)	E-24
CORRIDOR (4/F & 5/F)	E-26
CORRIDOR (6/F & 7/F)	E-28
CORRIDOR (8/F TO 11/F)	E-30
CORRIDOR (12/F TO 14/F)	E-32
CORRIDOR & LOCKER (2/F)	B-46
CORRIDOR (3/F)	B-48
CORRIDOR (4/F)	B-50
CORRIDOR (5/F & 6/F)	B-52
CORRIDOR (7/F & 8/F)	B-54
CORRIDOR (9/F TO 11/F)	B-56
CORRIDOR (12/F TO 14/F)	B-58
ELEVATOR CAB	ER-6, ER-8,ER-10
EXTERIOR SITE	EI-1,EI-3,EI-5,EI-2,EI-4,EI-6
RECEPTACLE LOCATION	CCT. #
ELEC. S. CLOSET (G/F TO 9/F)	B-2
ELEC. N. CLOSET (2/F TO 9/F)	B-4
ELEC. N. CLOSET (10/F TO 14/F)	B-6
ELEC. N. CLOSET (22/F TO 32/F)	B-8
ELEV. LOBBY (P2 TO 8/F)	B-10
CORRIDOR (2/F TO 8/F)	B-12,B-14,B-16,B-18,B-20,B-22,B-24
CORRIDOR (2/F TO 5/F)	B-26,B-28
ELEV. LOBBY (9 TO 14/F)	B-30
CORRIDOR (9/F TO 14/F)	B-32,B-34,B-36,B-38
STAIR A (G/F) & J(9/F,6/F,3/F)	B-40
STAIR F (14/F,11/F,8/F,5/F,/2F)	B-42
STAIR H (14/F,11/F,8/F,5/F,2/F)	B-44
STAIR "K" & MPH	R-2

KEY NOTES - INSUITE:

1. DESIGNATED "LAUNDRY RECEPTACLE" AS DEFINED BY ESA CODE 26-710(e)(ii), 26-720(b) AND ESA BULLETIN 26-26-0 (WITHIN 3m RADIUS OF LAUNDRY CLOSET). RECEPTACLE SHALL BE CONNECTED TO A DEDICATED CIRCUIT. SEE DETAIL #14 ON DWG. E-35.
2. SUITE DOOR CONTACTS AND GLASS BREAK DETECTOR WILL COMPLETE WITH INTRUSION ALARM SYSTEM THAT CONTACT TO THE CONCIERGE STATION. (TYPICAL)
3. FOR FAN COIL UNITS (FCU) ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL CONDUIT AND JUNCTION BOX FOR REMOTE THERMOSTAT. MECHANICAL CONTRACTOR SHALL SUPPLY, WIRE, TERMINATE WIRING AND MOUNT THERMOSTAT.
4. INSTALL SIDE-MOUNTED RECEPTACLE ON KITCHEN ISLAND CABINET.
5. SWITCHES, RECEPTACLES, ETC., TO BE INSTALLED AS TO NOT INTERFERE WITH THE OPENING AND OPERATION OF SLIDING DOOR.



SUITE FIRE ALARM SYSTEM CONNECTION DIAGRAM

MOUNTING HEIGHT SCHEDULE (TO TOP OF BOX)		
OUTLET	SUITES	PUBLIC AREA
RECEPTACLE	400 MM AFF.	400 MM AFF.
TV OUTLET	400 MM AFF.	400 MM AFF.
TELEPHONE OUTLET	400 MM AFF.	400 MM AFF.
MULTI-PORT OUTLET	400 MM AFF.	400 MM AFF.
SWITCH	1200 MM AFF.	1200 MM AFF.
SECURITY PANEL	1200 MM AFF.	
SILENCE SWITCHES	1200 MM AFF.	
THERMOSTAT	1200 MM AFF.	1200 MM AFF.
INTERCOM		1200 MM AFF.
V.C. HANDSET		1200 MM AFF.
PULL STATION		1200 MM AFF.

GENERAL NOTES - RESIDENTIAL:

1. ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH MECHANICAL, STRUCTURAL, ARCHITECTURAL AND LANDSCAPE DRAWINGS.
2. CONTRACTOR SHALL RUN CABLES WITHIN CEILING SLAB OR ENCLOSURES TO RETAIN 2 HOUR FIRE PROTECTION RATING FOR ALL LOADS THAT CONNECT TO EMERGENCY POWER.
3. FIRE ALARM RISERS SHALL BE RUN IN 2 HOUR FIRE RATED ELECTRICAL CLOSET. REFER TO DWG. E-32 FOR RISER DIAGRAM AND DETAILS.
4. STAIRWAY WALL MOUNTED EMERGENCY LIGHT FIXTURES SHALL BE MOUNTED @ 7' AFF. MIN.
5. FOR STORAGE ROOM VENTILATION SYSTEM, DIV. 16 TO PROVIDE CONDUIT, WIRING AND SWITCH (S) TO START/STOP FAN AND DAMPER. FAN AND 110V ACTUATOR TO BE SUPPLIED AND INSTALLED BY DIV. 15.
6. FOR UTILITY ROOM VENTILATION SYSTEM, DIV. 15 WILL PROVIDE LINE VOLTAGE THERMOSTAT (T) TO DIV. 16. DIV. 16 TO PROVIDE CONDUIT AND WIRING TO START/STOP FAN AND DAMPER VIA THERMOSTAT. FAN AND 110V ACTUATOR TO BE SUPPLIED AND INSTALLED BY DIV. 15.
7. FOR UNIT HEATER, DIV. 15 TO PROVIDE LINE VOLTAGE THERMOSTAT (T), DIV. 16. TO PROVIDE CONDUIT AND WIRING TO START/STOP UNIT HEATER.
8. REFER TO SPRINKLER DRAWINGS FOR FIRE PROTECTION DEVICE TO BE CONNECTED TO THE FIRE ALARM SYSTEM. THE DEVICE AND EQUIPMENT SHALL FORM AN INTEGRAL PART OF THE ELECTRICAL CONTRACT.
9. DIV. 16 SHALL SUPPLY AND INSTALL CONDUITS, WIRES AND INTERLOCK FANS TO MOTORIZED DAMPERS AND TO THE THERMOSTAT.
10. DIV. 16 SHALL SUPPLY AND INSTALL CONDUITS, WIRES AND INTERLOCK FANS TO MOTORIZED DAMPERS AND TO THE THERMOSTAT.
11. REFER TO SUITE PANEL SCHEDULES FOR INSUITE CIRCUIT ARRANGEMENT.
12. ALL DWELLING UNIT RECEPTACLES EXCEPT IN KITCHEN SHALL BE TAMPER PROOF.
13. PROVIDE GROUND FAULT PROTECTION FOR SUITE KITCHEN, AMENITY KITCHEN AND WASHROOM RECEPTACLES WITHIN 1500mm OF SINK.
14. [CB] PROVIDE TELECOMMUNICATION BOX C/W BUILT-IN RECEPTACLE FOR TELECOMMUNICATION. TELECOMMUNICATION BOX SHALL BE COMPLIANT WITH THE TELECOM SERVICE PROVIDER SPECIFICATION. REFER TO DETAIL #9 ON DWG. E-35 FOR TELECOM JUNCTION BOX INSTALLATION.
15. [DS] DRYER SENSOR TO START DRYER VENTILATION FAN AUTOMATICALLY WHEN DRYER IS RUNNING.
16. ALL SMOKE ALARMS WITHIN THE SUITE SHALL BE HARDWIRED TOGETHER AND TO A 15A, 1P CIRCUIT BREAKER AHEAD OF OTHER LOADS.
17. ALL OUTDOOR RECEPTACLES SHALL BE WEATHERPROOF (LEGRADE CAT# 3232TRWR-GRY FOR NON-GFCI AND CAT# 1595TRWR-GRY FOR GFCI) AND SHALL BE EQUIPPED WITH A WHILE IN USE CAST ALUMINUM COVERPLATE (LEGRANDE CAT# WIUCAST1) COVERFPLATE.
18. REFER TO SPRINKLER DRAWINGS FOR FIRE PROTECTION DEVICE TO BE CONNECTED TO THE FIRE ALARM SYSTEM. THE DEVICE AND EQUIPMENT SHALL FORM AN INTEGRAL PART OF THE ELECTRICAL CONTRACT.

KEY NOTES - RESIDENTIAL - COMMON AREA:

7. FOR CIRCUITING, REFER TO TABLE #1.
8. PROVIDE ALARM SPEAKER, SMOKE DETECTOR AND RECEPTACLE AT EVERY THIRD FLOOR STAIR WELL,STARTING FROM TOP FLOOR, AS PER TO DWG. E-32 FOR FIRE ALARM RISER DIAGRAM.
9. PROVIDE TELECOMMUNICATION BACKBOARD C/W 115V, 1ϕ, 15A RECEPTACLE AS PER COMMUNICATION RISER DIAGRAM ON DWG. E-31.
10. CONTRACTOR SHALL REFER TO ELECTRICAL SINGLE LINE DIAGRAM ON DWG. E-30 AND SDP RISER ON DWG. E-31 FOR SDP LOCATIONS AND DISTRIBUTION.
11. PROVIDE CONDUIT AS PER RISER DETAIL #19 ON DWG. E-35 FOR TRISORTER CONTROL SYSTEM.
13. REFER TO SUPERVISED VALVE AND FLOW SWITCH SCHEDULE ON DWG. E-33 FOR DETAILS ON TYPICAL FLOORS.
14. EMERGENCY LIGHT FIXTURES IN LOCKERS, STORAGE, GARBAGE, UTILITY AND SERVICE ROOMS SHALL BE CONNECTED TO BOTH NORMAL AND EMERGENCY POWER AS PER DETAIL #27 OF DWG. E-35.
15. ALLOCATE 2, 120V, 15A, CIRCUITS FROM PANEL 'LP-P' FOR MECHANICAL CONTROL, CONTRACTOR COORDINATE WITH DIV. 15 FOR EXACT LOCATION.
16. ELECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWING FOR BOILER:
    1) 575V, 3ϕ, 15A FEEDER FOR BOILER CIRCULATING PUMP.
    2) 115V, 1ϕ, 15A DEDICATED CIRCUIT FOR BOILER IGNITER.
    3) BOILER SHUTDOWN PUSHBUTTON AT EXIT OF MECHANICAL ROOM.
17. PROVIDE CONDUIT AS PER COMM./SECURITY CONDUIT CONNECTION DIAGRAM ON DWG. E-31.
18. ALL EXTERIOR LIGHTS SHALL BE CONTROLLED BY A TIMER/CONTACTOR LOCATED NEAR 'LP-R', CONNECT LIGHTS TO CIRCUIT AS SHOWN.
19. PROVIDE RECEPTACLES FOR MAINTENANCE OF MECHANICAL EQUIPMENT. MOUNTING HEIGHT IS 750MM AFF. AS PER ESA CODE.
20. 3/4"x 48"x 96" PLYWOOD BACKBOARD FOR SECURITY SYSTEM
21. 3/4"x 48"x 96" PLYWOOD BACKBOARD FOR T.V. SYSTEM
22. 3/4"x 48"x 96" PLYWOOD BACKBOARD FOR TEL. SYSTEM
23. TRANSFORMERS TX-R & TX-RI SHALL BE CEILING MOUNTED.
24. PROVIDE [combination smoke & CO alarm symbol] A FOR ALL SUITES ON THIS FLOOR.

ELECTRICAL LEGEND

LIGHTING

- FLUORESCENT LIGHT FIXTURE, TYPE AS INDICATED
- NIGHT LIGHT OR LIGHT CONNECTED TO EMERGENCY POWER
- CEILING MOUNTED/WALL MOUNTED LIGHT FIXTURE, INSCRIBED LETTER DENOTES TYPE
- POLE MOUNTED LIGHT FIXTURE, INSCRIBED LETTER DENOTES TYPE
- CAPPED CEILING LIGHT OUTLET
- TRACK LIGHT
- STRIP LIGHT
- UNDER CABINET FLUORESCENT LIGHT FIXTURE
- CEILING MOUNTED/WALL MOUNTED EXIT SIGN
- SINGLE/DUAL EMERGENCY LAMP REMOTE HEAD
- EMERGENCY BATTERY PACK
- PP — OCCUPANCY SENSOR POWER PACKS
- \$/\$/\$, \$3, \$4, \$P, \$D — SINGLE/TWO/THREE POLE, SINGLE/TWO/THREE THROW TOGGLE SWITCH RESPECTIVELY, ('3','4','P','D' DENOTES 3-WAY,4-WAY,PILOT LIGHT, DIMMER SWITCHED LIGHT RESPECTIVELY)
- MASTER LIGHTING SHUT-OFF SWITCH
- SENSOR WALL SWITCH PIR, SELF POWERED
- OCCUPANCY SENSOR, CEILING MOUNTED

POWER

- REGULAR DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE, GROUND FAULT INTERRUPT
- 5-20R T-SLOT DUPLEX RECEPTACLE
- SINGLE RECEPTACLE, TYPE AND CONFIGURATION AS SPECIFIED FOR DRYER
- CONNECTION FOR OVEN/COOKTOP
- ABOVE COUNTER DEVICE
- CEILING MOUNTED DEVICES
- FLOOR MOUNTED DEVICES
- DISCONNECT SWITCH, NON-FUSED
- DISCONNECT SWITCH, FUSED
- COMBINATION STARTER
- FRACTIONAL MOTOR/FAN DIRECT CONNECTION
- DIRECT CONNECTION, SINGLE PHASE
- DIRECT CONNECTION, THREE PHASE
- THERMOSTAT
- DS — DRYER SENSOR
- HEAT TRACE
- ELECTRICAL HEATER
- EP / SP — ELECTRICAL PANEL / SECURITY PANEL

TELECOMMUNICATION

- TV/CABLE OUTLET
- TELEPHONE OUTLET
- MP — TELEPHONE/TV CABLE (MULTI-PORT OUTLET)
- DATA OUTLET
- DATA/TELEPHONE OUTLET
- CB — IN SUITE TELECOMM. BOX C/W RECEPTACLE
- WIFI — WIFI LOCATION
- VIC — VIDEO INTERCOM
- RR — RADIO RECEIVER

SECURITY

- IC / ENT — INTERCOM / ENTERPHONE
- ICV — INTERCOM WITH CAMERA
- PB / PAR — PANIC BUTTON / PANIC INTERCOM STATION
- CR — CARD READER
- ARCA / RR — AUTOMATIC RELEASE CARD ACCESS/RADIO RECEIVER
- ES — ELECTRIC STRIKE
- ML — MAGLOCK
- DC / WC — DOOR CONTACT / WINDOW CONTACT
- GB — GLASS BREAK DETECTOR
- DO — AUTOMATIC DOOR OPERATOR
- MD — MOTION DETECTOR
- PUSH BUTTON
- SECURITY CAMERA

LIFE SAFETY

- FIRE ALARM SMOKE DETECTOR
- A — SMOKE ALARM
- D — FIRE ALARM DUCT TYPE SMOKE DETECTOR
- FIRE ALARM HEAT DETECTOR
- H — FIXED TEMP. 88 °C DEGREE HEAT DETECTOR
- M — MOISTURE PROOF HEAT DETECTOR
- CO ALARM
- COMBINATION SMOKE & CO ALARM
- CO / NO — CO SENSOR / NO SENSOR
- FIRE ALARM MANUAL PULL STATION
- H — FIREFIGHTER'S HANDSET
- FIRE ALARM SPEAKER/STROBE, WALL MTD.
- FIRE ALARM SPEAKER, WALL MTD.
- FIRE ALARM SPEAKER/STROBE CEILING MTD.
- FIRE ALARM SPEAKER, CEILING MTD.
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- FACP — FIRE ALARM CONTROL PANEL

DATE	NO.	DESCRIPTION	BY
10/31/14	4	RE-ISSUED FOR TENDER	S.T.
09/23/14	3	ISSUED FOR TENDER	S.T.
01/10/14	2	RE-ISSUED FOR PERMIT	S.T.
05/30/14	1	ISSUED FOR PERMIT	S.T.

MARK VOID ALL PRINTS DATED PREVIOUS TO FINAL DATE ABOVE

REVISIONS

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT DISCREPANCIES TO THE ENGINEERS BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS THE PROPERTY OF THE ENGINEERS AND MUST BE RETURNED UPON COMPLETION OF THE WORK.

DRAWINGS ARE NOT TO BE SCALED

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Richmond Hill, Ontario L4B 3M1
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Email: cad@novatrendeng.com

DRAWING TITLE: 14/F FLOOR PLAN ELECTRICAL LAYOUT

PROJECT TITLE: ALEXANDRA PARK

38 CAMERON STREET, BLOCK 11
TORONTO ONTARIO

DRAWN BY:	CHECKED BY:	SCALE:
S.O.	S.T.	1:50
DATE: FEB, 13	PROJECT NUMBER: 1313	DRAWING NUMBER: E-28 OF

Drawing name: \\CADSERVER\Current Dwg\13\1313 - Alexandra Park\DIV16\1313E- 28 (14F ELEC).dwg Plotted: Oct 31, 2014 - 3:37pm