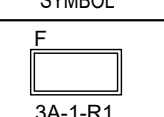
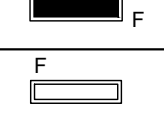
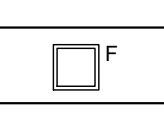
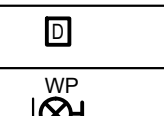
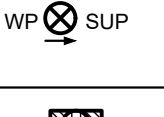

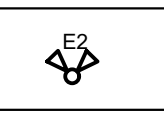
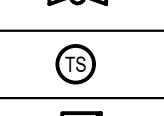
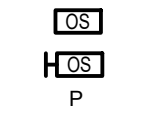
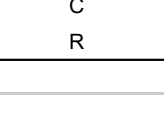
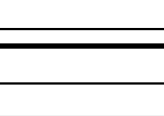
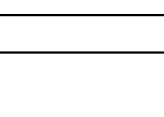


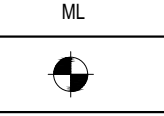
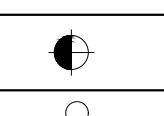
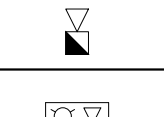
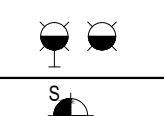
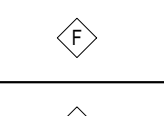
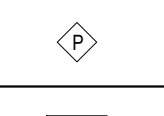
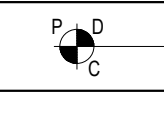
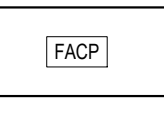
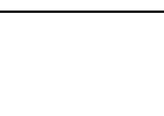

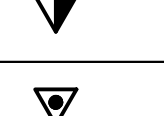
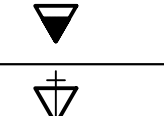
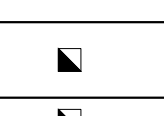
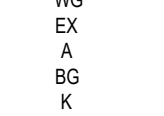
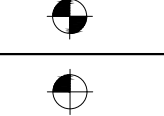
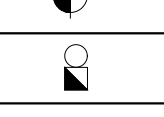
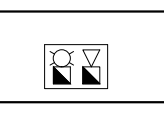
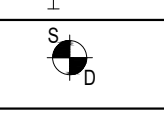
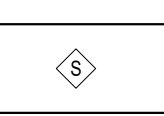

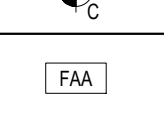
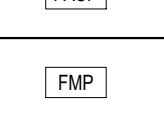
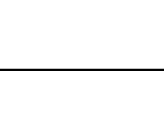

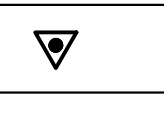

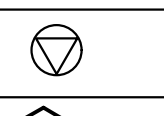
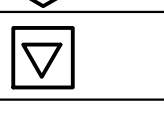



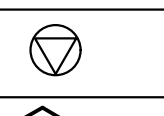
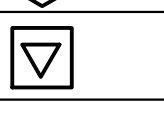
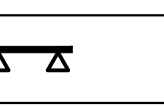



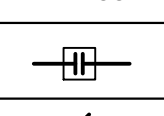

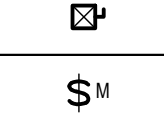
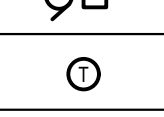
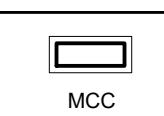
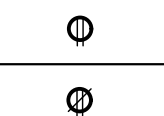

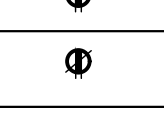

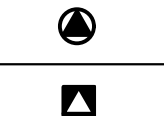
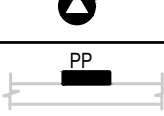

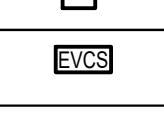
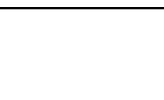
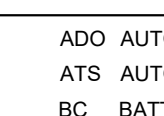
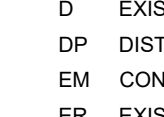
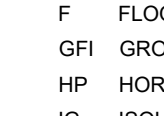
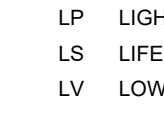

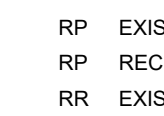
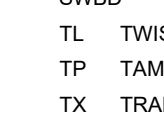
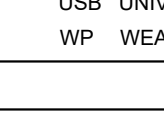
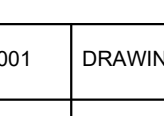

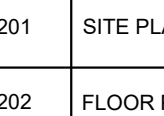

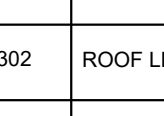
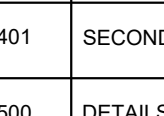


GENERAL:	RELOCATED LUMINAIRES MUST BE CHAIN HUNG DIRECTLY FROM THE CEILING CONCRETE SLAB INDEPENDENT FROM THE 1'-8" BAR CEILING SUSPENSION SYSTEM.
1. ALL DRAWINGS ARE DIAGRAMMATIC ONLY. THE ARRANGEMENTS OF EQUIPMENT SHOWN ARE APPROXIMATIONS ONLY AND MAY BE ALTERED BY THE ENGINEERS TO MEET THE REQUIREMENTS OF THE PROJECT. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECT'S, INTERIOR DESIGNER, AND MECHANICAL DRAWINGS FOR LOCATION AND LUMINAIRES, SWITCHES, DEVICES AND REFLECTORS WITHIN THE SCOPE OF WORK SO THAT ALL BASE BUILDING LUMINAIRES ARE CLEAN AND ILLUMINATED AT THE END OF CONSTRUCTION.	29. ELECTRICAL CONTRACTOR SHALL PROVIDE NEW LAMPS FOR ALL LUMINAIRES WITHIN THE SCOPE OF WORK SO THAT ALL LAMPS ARE OF SIMILAR AGE AND COLOUR. TEMPERATURE, THE ELECTRICAL CONTRACTOR SHALL ALSO REPLACE ALL FALED LUMINAIRE LENSES AND CLEAN LUMINAIRE LENSES AND REFLECTORS WITHIN THE SCOPE OF WORK SO THAT ALL BASE BUILDING LUMINAIRES ARE CLEAN AND ILLUMINATED AT THE END OF CONSTRUCTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL THE WORK WITH ALL OTHER TRADES, CONSULTANTS, AND THE OWNER. ALL WORK SHALL BE SCHEDULED AND CARRIED OUT BY THE CONTRACTOR IN A MANNER TO ENSURE CONTINUED AND NON-INTERRUPTED OPERATION OF EXISTING FACILITY. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DISRUPTION TO THE EXISTING SERVICES. THE EXISTING BUILDING MUST BE KEPT IN OPERATION AT ALL TIMES. ARRANGE WORK IN SUCH A MANNER THAT INTERRUPTIONS IN SERVICES OCCUR ONLY AT SCHEDULED TIMES. UNAVOIDABLE INTERRUPTION SHALL BE SCHEDULED WITH THE LANDLORD AT LEAST 14 DAYS IN ADVANCE. OVERTIME WORK THAT MAY BE REQUIRED TO TIE-IN SERVICES AT NIGHT OR ON WEEKENDS SHALL BE INCLUDED IN THE TENDER AMOUNT.	40. FOR ALL LUMINAIRES THAT EXCEED 150W SHOWN AS NEW AND OR RELOCATED, SUPPLY AND INSTALL NEW LUMINAIRES DISCONNECT THAT COMPLY WITH RECOMMENDATION SPECIFIED IN CANADIAN ELECTRICAL CODE, RULE 30-308(4). ALL NEW RELOCATED FIXTURES (WHAT EXCEED 150W) SHALL BE MARKED IN A CONSPICUOUS LEGIBLE AND PERMANENT MANNER ADJACENT TO THE CONNECTING MEANS, IDENTIFYING THE SPECIFIC PURPOSES.
3. THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE ALL DRAWINGS CAREFULLY TO DETERMINE THE EXTENT OF THE DEMOLITION IN THE EXISTING BUILDING. EXAMINE THE SITE AND DETERMINE AND INCLUDE IN THE TOTAL PRICE OF THE TOTAL COST OF LABOUR AND MATERIAL TO DISCONNECT, REMOVE, RELOCATE, BLANK-OFF, RELOCATE, MAKE SAFE AND INSTALLATION OF ALL NEW AND EXISTING CONDUITS AND WIRING, BOXES, LUMINAIRES AND EQUIPMENT.	41. PROVIDE NEW JUNCTION BOXES AS REQUIRED. ENSURE THAT CIRCUITS ARE NOT OVERLOADED.
4. NO ALLOWANCE WILL BE MADE FOR OBVIOUS CONSIDERATIONS WHICH MAY HAVE BEEN OVERLOOKED.	POWER:
5. THE WHOLE OF THE WORK SHALL BE CARRIED OUT AND PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE OWNER. ANY UNSATISFACTORY WORK SHALL BE REPLACED BY THIS DIVISION WITHOUT EXTRA COST TO THE OWNER.	42. UNLESS OTHERWISE NOTED, CONTRACTOR IS TO PROVIDE ALL WIRING, CONDUIT AND MOUNTING HARDWARE TO COMPLETE THE WORKS AS INDICATED.
6. IN CASE EXTRA WORK OF ANY KIND IS REQUIRED, OBTAIN WRITTEN INSTRUCTIONS FROM THE CONSULTANT BEFORE PROCEEDING. PAYMENTS WILL BE MADE AT A FIRM AND REASONABLE RATE ONLY FOR AUTHORIZED EXTRAS. IN THE CASE OF OMISSIONS, THE SAME PROCEDURE SHALL APPLY AND A DECREASE MADE.	43. ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF SENSORS FOR UNIT HEATERS, FANS, HEAT PUMPS, FORCED FLOW HEATERS, ETC WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO COMMENCE OF THE INSTALLATION. SENSORS FOR MECHANICAL EQUIPMENTS SUPPLIED, INSTALLED AND WIRED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE (EMT) CONDUIT FROM THERMOSTAT CONTROLS TO MECHANICAL EQUIPMENT AND BOX FOR SENSOR FOR CONTROL WIRING. COORDINATE WITH MECHANICAL CONTRACTOR (TYPICAL).
7. CONTRACTOR SHALL ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED. NO WORK WHICH IS CONDITIONAL ON SUCH PERMITS SHALL BE UNDERTAKEN UNTIL NECESSARY CONDITIONS ARE MET. (ENSURE ESA AND TSSA PERMITS ARE PROVISIONED FOR) PROVIDE FINAL CERTIFICATE OF ELECTRICAL INSPECTION WHEN THE WORK IS COMPLETED.	44. PROVIDE CONDUIT, POWER CONNECTION AND ROUGH-IN TO ALL MECHANICAL EQUIPMENT AND ASSOCIATED CONTROL SYSTEMS. INSTALL STARTERS, SUPPLY AND INSTALL SWITCHES, ETC AS REQUIRED AND MAKE ALL CONNECTIONS. PROVIDE RECOMMENDED FUSES/BREAKERS TO PROTECT EQUIPMENT AND WIRING TO SUIT. OBTAIN WRITTEN INSTRUCTIONS FROM THE CONSULTANT BEFORE PROCEEDING. PAYMENTS WILL BE MADE AT A FIRM AND REASONABLE RATE ONLY FOR AUTHORIZED EXTRAS. IN THE CASE OF OMISSIONS, THE SAME PROCEDURE SHALL APPLY AND A DECREASE MADE.
8. WORK PERFORMED SHALL BE IN CONFORMITY WITH ALL LAWS, BYLAWS, OR REGULATIONS OF THE MUNICIPAL, PROVINCIAL, OR OTHER AUTHORITIES HAVING JURISDICTION. NOTHING CONTAINED IN THESE DRAWINGS SHALL BE CONSTRUED AS TO BE IN CONFLICT WITH ANY SUCH LAWS.	45. FINAL CONNECTION TO ALL MECHANICAL EQUIPMENT TO BE RUN IN VAPOUR PROOF, LIQUID TIGHT FLEXIBLE METALLIC CONDUITS.
9. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND/OR EXISTING CONDITIONS ARE TO BE REFERRED TO THE CONSULTANT FOR INSTRUCTIONS BEFORE ANY WORK IS BEGUN.	46. ELECTRICAL CONTRACTOR TO PROVIDE COMPLETE INSTALLATION TO ALL EQUIPMENT.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REFINISHING OF DAMAGED BUILDING AREAS AND FINISHES AFFECTED BY THE WORK AS OUTLINED UNDER SCOPE OF WORK OF THIS PROJECT. AT NO EXTRA COST CONTRACTOR SHALL ALSO ENSURE THAT AREAS NOT INCLUDED IN THIS CONTRACT ARE ADEQUATELY PROTECTED FROM DUST, DEBRIS, OR ANY OTHER DAMAGE RESULTING FROM WORK PERFORMED, AND THAT ANY CLEANING OR REPAIR REQUIRED IS PERFORMED WITHOUT COST TO OWNER.	47. ELECTRICAL CONTRACTOR TO COORDINATE WORK WITH OTHER TRADES/UTILITIES. ALL DAMAGED TILES TO BE REPLACED TO MATCH EXISTING, AT NO EXTRA COST TO THE CLIENT.
11. CONTRACTOR SHALL ENSURE THAT ALL REFUSE IS REMOVED ON A DAILY BASIS AND THAT JOB SITE IS MAINTAINED IN AN ORDERLY AND SAFE CONDITION. ALL DEMOLISHED SUBSTANCES SHALL BE DISPOSED IN A CODE APPROPRIATE MANNER AS PER LOCAL LAWS, CITY'S BYLAWS AND ONTARIO REGULATION.	48. ALL WIRING TO BE COPPER TYPE, UNLESS SPECIFIED OTHERWISE.
12. CONTRACTOR SHALL COORDINATE ACCESS TO SITE, DELIVERY AND REMOVAL OF GOODS WITH CLIENT/LANDLORD.	49. PROVIDE WATER SEAL ON ALL PENETRATIONS AS REQUIRED. PATCH AND MAKE SURFACES GOOD AS REQUIRED.
13. MAINTAIN EXISTING LIFE SAFETY DEVICES/SYSTEMS INCLUDING FIRE ALARM, EXIT SIGNS AND EMERGENCY LIGHTS IN FULL OPERATION DURING THE ENTIRE CONSTRUCTION STAGE. IF FIRE ALARM SYSTEM CANNOT BE MAINTAINED, PROVIDE FIRE WATCH FOR AREAS NOT MONITORED BY FIRE ALARM AND INCLUDE THE COST IN BID PRICE.	50. ALL OUTDOOR WIRING THROUGH ROOF PENETRATIONS TO BE INSTALLED IN VAPOUR PROOF LIQUID TIGHT JOINTS.
14. ALL BASE BUILDING LIGHTING FIXTURES, AND CIRCUITS, EVAC SPEAKERS AND EXIT SIGNS (IF SUITABLE FOR REUSE) MADE AVAILABLE FROM EXISTING LOCATIONS ARE TO BE REUSED AND RELOCATED AS REQUIRED TO SUIT NEW LAYOUTS. CAREFULLY CLEAN AND STORE ALL DEVICES UNTIL THEY ARE REINSTALLED.	51. REMOVE AND REPLACE ALL CEILING TILES AS REQUIRED FOR CONSTRUCTION ACCESS. ALL DAMAGED TILES TO BE REPLACED TO MATCH EXISTING, AT NO EXTRA COST TO THE CLIENT.
15. IN EVERY INSTANCE WHERE IT IS REQUIRED IN THE SPECIFICATION OR ON DRAWING THAT EQUIPMENT AND MATERIALS BE REMOVED FROM EXISTING LOCATIONS AND RE-INSTALLED, EITHER IN WHOLE OR IN PART IN NEW LOCATIONS, ALL SUCH EQUIPMENT AND MATERIALS SHALL BE THOROUGHLY CLEANED AND WHERE NECESSARILY PUT INTO GOOD OPERATING CONDITION BEFORE BEING RE-INSTALLED IN THE NEW LOCATION. TEST ALL PARTS OF THE REUSED OR RELOCATED ELECTRICAL EQUIPMENT AND CORRECT ALL FAULTS AND GROUNDS.	52. CONCENT CONDUIT AND WIRING IN WALLS, SURFACE MOUNTED CONDUITS ARE NOT PERMITTED, UNLESS OTHERWISE INDICATED.
16. ELECTRICAL SERVICES INCLUDING AUXILIARY SERVICES, SECURITY, COMPUTER, F.A. SYSTEMS ETC.), IF DRAWINGS CALL FOR ANY MODIFICATIONS TO THESE SYSTEMS, SAID WORK SHALL BE DONE AFTER HOURS AND/OR DURING WEEKENDS. CONTRACTOR TO CARRY OVERTIME HOURS IN THE BID PRICE FOR COMPLETION OF WORK UNLESS NOTED OTHERWISE. TO OPERATING PARTS OF THE BUILDING SHALL NOT BE HAMPERED UNDER ANY CONDITIONS AND TO THAT EFFECT, NECESSARY WORK MAY HAVE TO BE CARRIED OUT ON OVERTIME BASIS.	53. ALL NEW DEVICES INSTALLED WHERE NEW FINISHES OCCUR SHALL BE FLUSH MOUNTED, UNLESS OTHERWISE INDICATED.
17. ALL SLAB OPENINGS WILL BE X-RAYED AND REVEIUED WITH LANDLORD AND BASE BUILDING STRUCTURAL CONSULTANT. CONTRACTOR SHALL X-RAY THE FLOOR AND SUBMIT TO BASE BUILDING STRUCTURAL ENGINEER FOR WRITTEN APPROVAL AT LEAST 72 HOURS PRIOR TO ANY CORE DRILLING ON THE BUILDING. THE CONTRACTOR SHALL INCLUDE THE COST OF STRUCTURAL ENGINEER, COORDINATE ALL CORE DRILLING WITH LANDLORD'S SITE REPRESENTATIVE AND TENANT. ALL NOISY WORK SHALL BE PERFORMED AFTER HOURS.	54. DRAWINGS DO NOT SHOW THE EXACT ROUTE FOR CONDUIT/WIRING/RACEWAY AND IS INTENDED AS A GUIDE TO THE CONTRACTOR, CONTRACTOR TO FIELD ROUTE CONDUITS/WIRING/RACEWAY TO SUIT EXISTING CONDITIONS AND OTHER SERVICES.
18. ALL OPENINGS IN BUILDING RISER, IF APPLICABLE, SHALL BE SEALED WITH APPROVED FIRE STOP MATERIAL. ANY FIREPROOFING MATERIAL REMOVED WILL BE REPLACED WITH A SUITABLE AND APPROVED FIREPROOFING MATERIAL AND SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS TO APPLICABLE BUILDING AND FIRE CODES.	55. PANEL DESIGNATION AND CIRCUITING SHOWN ON DRAWING IS DIAGRAMMATIC INTENTION TO SHOW GENERAL CIRCUIT ARRANGEMENT. VERIFY EXACT SOURCE PANEL AND CIRCUIT ACCORDINGLY. REUSE EXISTING CIRCUITS IN THE AREA BEFORE BRINGING IN NEW CIRCUITRY. CONTRACTOR TO CONFIRM THAT PANEL IS NOT OVERLOADED, RE-ARRANGE EXISTING BREAKERS IN EXISTING AND NEW PANELS AS REQUIRED. ELECTRICAL CONTRACTOR TO PROPERLY LABEL ALL BREAKER PANELS, CLEARLY INDICATING ALL INFORMATION INCLUDING CIRCUIT NUMBER CORRESPONDING TO THE DRAWINGS. PROVIDE TYPE-WRITTEN PANEL DIRECTORY FOR NEW PANELS AND PROVIDE UPDATED TYPE-WRITTEN PANEL DIRECTORY FOR EXISTING PANELS USED IN THE SCOPE OF THIS PROJECT. SHOW FINAL ARRANGEMENT ON AS-BUILT DRAWINGS.
19. COORDINATE WITH THE CLIENT TO CONFIRM EQUIPMENT OR SYSTEMS/DEVICES TO REMAIN.	56. CIRCUITING SHOWN ON DRAWING IS DIAGRAMMATIC INTENTION TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION. SUPPLY AND INSTALL SUITABLE CABLES INDICATING ALL INFORMATION INCLUDING CIRCUIT NUMBER CORRESPONDING TO THE DRAWINGS. PROVIDE TYPE-WRITTEN PANEL DIRECTORY FOR NEW PANELS AND PROVIDE UPDATED TYPE-WRITTEN PANEL DIRECTORY FOR EXISTING PANELS USED IN THE SCOPE OF THIS PROJECT.
20. PROVIDE ALL NECESSARY FITTINGS, SUPPORTS AND ANCHORS TO COMPLETE THIS WORK. INSTALL SEAL AND FIRE STOPPING ON ALL WALL/CEILING PENETRATIONS. COORDINATE THIS WORK WITH FACILITY MANAGEMENT.	57. WHERE POWER AND COMMUNICATION OUTLETS ARE SHOWN SIDE BY SIDE, GANG TOGETHER UNDER A COMMON COVERPLATE. PROVIDE BARRIER WITHIN BACK BOX TO SEPARATE POWER AND COMMUNICATIONS CABLES.
21. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND DISTRIBUTION OF TEMPORARY POWER AND LIGHTING WITHIN THE PREMISES DURING THE CONSTRUCTION PERIOD. EXPOSED ELECTRICAL CORDS OUTSIDE THE LEASED PREMISES SHALL NOT BE PERMITTED.	58. NEW AND EXISTING ELECTRICAL WIRING AND CABLES EXPOSED WITHIN THE CEILING SPACES SHALL CONFORM TO THE PLENUM REQUIREMENTS OF ONTARIO BUILDING CODE SENTENCE 3.6.4.3. (1).
22. CONTRACTOR SHALL IDENTIFY AND LABEL CLEARLY ALL CIRCUITS, WIRING, SERVICES, JUNCTION BOXES, PULLBOXES, DEVICES AND EQUIPMENT INSTALLED AND CONNECTED UNDER SCOPE OF WORK OF THIS PROJECT. IDENTIFICATION SHALL BE AS PER OWNER'S REQUIREMENTS AND ALL MARKINGS SHALL BE OF NON-ERASEABLE LAMACOD TYPE. COORDINATE ALL LABELING WITH THE OWNER AND CONSULTANT.	59. PROVIDE 2#12AWG+G IN 3/4" FOR ALL CIRCUITS (15A/20A) UNLESS OTHERWISE NOTED. CONDUCTORS 10 BE OVERSIZED TO SUIT VOLTAGE DROP AS PER SPECIFICATIONS FOR CIRCUIT LENGTHS EXCEEDING 75 FEET.
23. ENSURE TO KEEP INSULATION OFF OF LIGHTS, EVAC HORNS/STROBES AND IN AREA OF DEVICES THAT REQUIRE REGULAR MAINTENANCE/ACCESS.	60. PROVIDE A SEPARATE NEUTRAL AND GROUNDING TO ALL CIRCUITS. COORDINATE EXACT LOCATION AND HEIGHT OF DEVICES WITH THE OWNER/ARCHITECT PRIOR TO ROUGH-IN.
24. THE COMPLETE EXTENT OF DEMOLITION IS NOT SHOWN. ALLOW FOR ALL COSTS.	LIFE SAFETY:
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTING AND REMOVING ALL ELECTRICAL EQUIPMENT FROM AREAS BEING ALTERED OR DEMOLISHED. WIRING, CONDUIT AND EQUIPMENT REQUIRED TO MAINTAIN SERVICE IN OTHER PARTS OF THE BUILDING SHALL BE TEMPORARILY SUPPORTED, REDROUTED, SERVICED OR RELOCATED AS REQUIRED. OBSOLETE CONDUITS AND CABLES SHALL BE DISCONNECTED FROM THEIR SOURCE OF SUPPLY, CUT BACK AS FAR AS POSSIBLE, AND SHALL BE REMOVED. ALL EXISTING WIRING NOT REMOVED SHALL BE DISCONNECTED, BLANKED-OFF AND MADE SAFE.	61. CONNECT THE EMERGENCY REMOTE HEADS TO THE BATTERY UNIT WITH #10 AWG COPPER WIRE MINIMUM. PROVIDE LARGER WIRE SIZE AS REQUIRED OR AS RECOMMENDED BY MANUFACTURER. PROVIDE MEASUREMENT OF LIGHTED LEVELS TO OBTAIN LOCAL INSPECTION APPROVALS AND PERMITS. AN AUTHORIZED TECHNICIAN OF THE MANUFACTURER SHALL PREPARE AND PROVIDE A SIGNED TEST REPORT VERIFYING THAT THE SYSTEM IS PROPERLY WORKING AND THAT LIGHT LEVELS IN LUX, MINIMUM (OFF 15 POINTS) MEET LOCAL CODE REQUIREMENTS. INCLUDE REQUIRED TEST MEASUREMENTS IN REPORT AND SUBMIT TO CONSULTANT FOR REVIEW. ALL COST SHALL BE INCLUDED IN THIS CONTRACT.
26. REMOVE ALL REDUNDANT POWER AND DATA CABLEING IN CEILING SPACE AS PER APPLICABLE CODES (E.G. ONTARIO ELECTRICAL SAFETY CODE).	GENERATOR:
27. THE ELECTRICAL CONTRACTOR IS TO MAKE GOOD ALL CORE HOLES FROM ELECTRICAL EQUIPMENT AND DEVICES DISCONNECTED, RELOCATED AND/OR REMOVED IN THIS PROJECT.	62. GENERATOR AND LOADBANK (IF APPLICABLE) SHALL BE DELIVERED TO SITE WITH THE ASSISTANCE OF MACHINERY MOVER. COST OF THE MACHINERY MOVER, CRANE SHALL BE CARRIED BY THE ELECTRICAL CONTRACTOR. COORDINATE DELIVERY AND INSTALLATION DETAILS WITH MANUFACTURER PRIOR TO COMMENCEMENT.
28. ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT AND LIGHTING WITHIN BASE BUILDING ROOMS, STAIRWELLS AND AREAS DEMED NOT IN SCOPE SHALL REMAIN LIVE AND OPERATIONAL. ELECTRICAL CONTRACTOR TO ENSURE SERVICES TO THESE AREAS ARE ISOLATED AND PROTECTED DURING THE COURSE OF DEMOLITION AND CONSTRUCTION.	
29. ALL DEMOLISHED SUBSTANCES SHALL BE DISPOSED IN A CODE APPROPRIATE MANNER AS PER LOCAL LAWS, CITY BY-LAWS AND ONTARIO REGULATION.	
30 REMOVE ALL WIRING, CONDUITS, AND DEVICES THAT ARE NO LONGER IN USE INCLUDING, BUT NOT LIMITED TO SECURITY AND OTHER LOW VOLTAGE SYSTEMS IN CONSTRUCTION AREA BACK TO SOURCE AND MAKE SAFE.	
31. REMOVE EXISTING OBSOLETE WIRING DEVICES AND ASSOCIATED WIRING IN ITS ENTIRETY AS REQUIRED.	
32. ALL UNUSED SUPPORT FOR FIXTURES, CONDUITS, AND WIRING IN CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFF-SITE.	
33. UNLESS OTHERWISE NOTED, ALL EXISTING DISTRIBUTION AND CONTROL EQUIPMENT RELATED TO PLUMBING AND HVAC SHALL REMAIN.	
34. RE-ROUTE ANY WIRING AND CONDUITS THAT ARE ON WALLS OR BUILDING STRUCTURE BEING DEMOLISHED THROUGH THE CEILING SPACE FOR CONNECTED LOADS THAT ARE TO REMAIN.	
35. PATCH ALL EXISTING WALL/COLUMN FEEDS FOR THOSE THAT ARE NOT IN USE. REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE.	
36. PROVIDE BLANK STAINLESS STEEL COVER PLATE FOR OUTLETS BEING REMOVED FROM EXISTING WALL.	
37. SEQUENCING/PHASING OF WORK TO BE COORDINATED TO BEST MINIMIZE DISTRIBUTION TO THE BUILDING OPERATIONS TO SUIT.	
LIGHTING:	
38. PROVIDE NEW SUPPORT CHAIN FOR ALL LUMINAIRES THAT ARE IN NEW OR RELOCATED POSITION. SUPPORT ALL LUMINAIRES DIRECTLY TO CEILING SLAB STRUCTURE, NOT TO CEILING HANGERS, DUCTWORK, PIPING, CABLE TRAYS, ROOF DECK, ETC. ALL NEW AND	

LIGHTING SYMBOLS	
SYMBOL	DESCRIPTION
	2'x4' FLUORESCENT LUMINAIRE, LETTER "F" INDICATES LUMINAIRE TYPE AS PER LUMINAIRE SCHEDULE. 3A-1-R1; INDICATES ALL LUMINAIRES CONNECTED TO PANEL 3A, CIRCUIT 1, RELAY 1.
	2'x4' FLUORESCENT LUMINAIRE CONNECTED TO EMERGENCY POWER, LETTER "F" INDICATES LUMINAIRE TYPE AS PER LUMINAIRE SCHEDULE. 3A-1-R1 INDICATES ALL LUMINAIRES CONNECTED TO PANEL 3A, CIRCUIT 1, RELAY 1.
	1'x4' FLUORESCENT LUMINAIRE, LETTER "F" INDICATES LUMINAIRE TYPE AS PER LUMINAIRE SCHEDULE.
	STRIP FLUORESCENT LUMINAIRE, LETTER "F" INDICATES LUMINAIRE TYPE AS PER LUMINAIRE SCHEDULE.
	2'x2' FLUORESCENT LUMINAIRE, LETTER "F" INDICATES LUMINAIRE TYPE AS PER LUMINAIRE SCHEDULE.
	6-2 INDICATES ALL LUMINAIRES CONNECTED TO PANEL "G" CIRCUIT NO. 2.
	PER DIMMER SWITCH.
	EXIT LIGHT-WALL MOUNTED, COMPLETE WITH DIRECTIONAL ARROWS WHERE SHOWN OR REQUIRED. "WP" DENOTES WEATHERPROOF TYPE.
	EXIT LIGHT-CEILING MOUNTED, COMPLETE WITH DIRECTIONAL ARROWS WHERE SHOWN OR REQUIRED. WP DENOTES WEATHERPROOF TYPE. SUP DENOTES SUSPEND MOUNT PROVIDE SUPEND MOUNTED KIT TO SUIT EXIT SIGN AS REQUIRED.
	EMERGENCY BATTERY PACK c/w RECEPTACLE
	EMERGENCY BATTERY PACK. REFER TO SPECIFICATIONS FOR DETAILS. "E2" DENOTES BATTERY UNIT DESIGNATION.
	REMOTE SINGLE HEAD EMERGENCY LIGHTS CONNECTED TO EMERGENCY BATTERY PACK. REFER TO SPECIFICATIONS FOR DETAILS. "E2" DENOTES REMOTE BATTERY HEADS FED FROM BATTERY UNIT "E2".
	REMOTE DUAL HEAD EMERGENCY LIGHTS CONNECTED TO EMERGENCY BATTERY PACK. REFER TO SPECIFICATIONS FOR DETAILS. "E2" DENOTES REMOTE BATTERY HEADS FED FROM BATTERY UNIT "E2".
	TIME SWITCH
	PHOTOCELL
	OCCUPANCY SENSOR - CEILING MOUNTED
	OCCUPANCY SENSOR - WALL MOUNTED
	"P" DENOTES PASSIVE INFRA RED
	"U" DENOTES ULTRA SONIC
	"C" DENOTES CONTROL UNIT
	"R" DENOTES AUXILIARY RELAYS)
	LINE VOLTAGE CONTROL, CONNECTION BETWEEN SWITCH & FIXTURE. THERMOSTAT & HEATER, ETC.
	DEMOLITION
	EXISTING
	NEW WORK
	CONTROLS WIRING

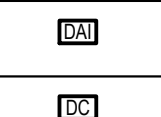
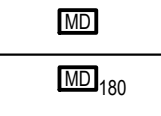
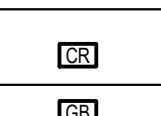
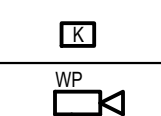
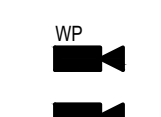
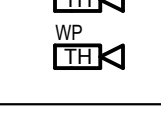
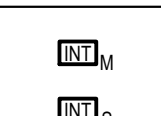

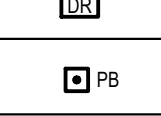
FIRE ALARM SYMBOLS	
	FIRE ALARM PULL STATION MOUNTED 4'-0" (1200) ABOVE FINISHED FLOOR LEVEL, UNLESS OTHERWISE NOTED.
	SIMILAR TO ABOVE, EXCEPT "C" WHERE SHOWN, DENOTES DEVICE c/w CLEAR GUARD. "W" WHERE SHOWN, DENOTES DEVICE c/w WIRE GUARD. "E" WHERE SHOWN, DENOTES EXPLOSION PROOF. "A" WHERE SHOWN, DENOTES DEVICE c/w AUXILIARY CONTACTS FOR CONNECTION TO MAG-LOCK ELEVATOR CONTROL. "B" WHERE SHOWN, DENOTES BREAK GLASS TYPE. "K" WHERE SHOWN, DENOTES DEVICE c/w KEY RESET "ML" WHERE SHOWN, DENOTES DEVICE c/w AUXILIARY CONTACTS FOR MAG-LOCK
	AUTOMATIC HEAT DETECTOR 15°F (8.3°C) RATE OF RISE AND FIXED TEMPERATURE TYPE 135°F (57°C) RATED AT 2300 FT. (23m) COVERAGE.
	AUTOMATIC HEAT DETECTOR, FIXED TEMPERATURE TYPE 135°F (57°C) RATED 625# (58#) COVERAGE.
	FIRE ALARM BELL, MOUNTED APPROXIMATELY 12" (300mm) BELOW FINISHED CEILING, U.N.O
	FIRE ALARM HORN, MOUNTED APPROXIMATELY 12" (300mm) BELOW FINISHED CEILING, U.N.O
	WALL AND CEILING MOUNTED FIRE ALARM SYSTEM STROBE LIGHT.
	SMOKE DETECTORS
	FLOW SWITCH
	SUPERVISORY VALVE
	PRESSURE SWITCH
	END OF LINE RESISTOR
	DUCT DETECTOR
	FIRE ALARM ANNUNCIATOR
	FIRE ALARM CONTROL PANEL
	FIRE ALARM MONITORING PANEL

COMMUNICATIONS SYMBOLS	
	SINGLE ANALOGUES VOICE OUTLET MOUNTED AT TYPICAL HEIGHT WITH SINGLE GANG BACK BOX AND 3/4" CONDUIT c/w PULL STRING TO ACCESSIBLE CEILING SPACE.
	SAME AS ABOVE BUT SUITABLE FOR TWO VOICE/DATE OUTLETS. TYPICAL FOR OVER COUNTER, CEILING AND FLOOR MOUNTED OUTLETS.
	SAME AS ABOVE BUT SUITABLE FOR THREE VOICE/DATE OUTLETS. TYPICAL FOR OVER COUNTER, CEILING AND FLOOR MOUNTED OUTLETS.
	SAME AS ABOVE BUT SUITABLE FOR FOUR VOICE/DATE OUTLETS. CONDUIT SHALL BE 1". TYPICAL FOR OVER COUNTER, CEILING AND FLOOR MOUNTED OUTLETS.
	CABLE TV OUTLET. PROVIDE BACK BOX, 3/4" CONDUIT, AND PULL STRING TO ACCESSIBLE CEILING SPACE. COORDINATE MOUNTING HEIGHT WITH INTERIOR DESIGNER/ARCHITECT.
	SINGLE VOICE/DATE OUTLET MOUNTED OVER COUNTER OR AS SPECIFIED WITH SINGLE GANG BACKBOX AND 3/4" CONDUIT c/w PULL STRING TO ACCESSIBLE CEILING SPACE.
	FURNITURE MOUNTED OUTLET. RUN THROUGH SYSTEMS FURNITURE BASE FEED.
	CEILING MOUNTED VOICE/DATE OUTLET. PROVIDE OCTAGON JUNCTION BOX MOUNTED IN FINISHED CEILING WITH CONDUIT c/w PULLSTRING TO ACCESSIBLE CEILING SPACE.
	FLOOR MOUNTED VOICE/DATE OUTLET. REFER TO DETAIL FOR ADDITIONAL REQUIREMENTS.
	FLOOR MOUNTED AV OUTLET. REFER TO DETAIL FOR ADDITIONAL REQUIREMENTS.
	TELECOM GROUNDING BUS BAR

POWER SYMBOLS	
SYMBOL	DESCRIPTION
	FLUSH OR SURFACE MOUNTED OUTLET BOX COMPLETE WITH DIRECT CONNECTION TO EQUIPMENT
	FLUSH-MOUNTED PUSHBUTTON MOUNTED 4'-0" (1.2 m) ABOVE FINISHED FLOOR LEVEL. "WP" WHERE SHOWN, DENOTES WEATHERPROOF. "EPO" WHERE SHOWN, DENOTES EMERGENCY POWER OFF. "CG" WHERE SHOWN, DENOTES PLASTIC COVER GUARD
	LINE VOLTAGE CONTACTOR
	MOTOR
	DISCONNECT SWITCH. WIRING FROM EQUIPMENT TO DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
	MOTOR STARTER - MAGNETIC
	MAGNETIC STARTER & DISCONNECT SWITCH (COMBINATION STARTER)
	MOTOR STARTER - MANUAL
	MOTOR COMPLETE WITH DISCONNECT SWITCH
	THERMOSTAT
	VARIABLE SPEED DRIVE
	MOTOR CONTROL CENTRE
	MOTOR STARTER PANEL
	DUPLEX U-GROUND 15A, 125 VOLT, 2 POLE, 3 WIRE GROUNDING RECEPTACLE MOUNTED 18" (460 mm) ABOVE FINISHED LEVEL, UNLESS OTHERWISE NOTED.
	SIMILAR TO ABOVE, BUT MOUNTED APPROXIMATELY 3'-7.5" (1100 mm) ABOVE FINISHED FLOOR LEVEL OR ABOVE COUNTER, UNLESS OTHERWISE NOTED.
	TWO DUPLEX U-GROUND 15A, 125 VOLT, 2 POLE, 3 WIRE GROUNDING RECEPTACLE MOUNTED 18" (460 mm) ABOVE FINISHED LEVEL IN COMMON FACEPLATE, UNLESS OTHERWISE NOTED.
	SIMILAR TO ABOVE, BUT MOUNTED APPROXIMATELY 3'-7.5" (1100 mm) ABOVE FINISHED FLOOR LEVEL OR ABOVE COUNTER UNLESS OTHERWISE NOTED.
	SPECIAL OUTLET AS NOTED ON DRAWING
	120V, 1PH CONNECTION TO EQUIPMENT
	208V, 1PH CONNECTION TO EQUIPMENT
	208V, 3PH CONNECTION TO EQUIPMENT
	347V, 1PH CONNECTION TO EQUIPMENT
	600V, 3PH CONNECTION TO EQUIPMENT
	SURFACE MOUNTED PANELBOARD, "PP" DENOTES POWER PANEL.
	RECESSED MOUNTED PANELBOARD.
	JUNCTION BOX
	PULL BOX
	ELECTRICAL, VEHICLE CHARGING STATION
	PULL BOX

ABBREVIATIONS	
ADD	AUTO DOOR OPENER
ATS	AUTOMATIC TRANSFER SWITCH BACK TO SOURCE. MAINTAIN CIRCUIT CONTINUITY DOWNSTREAM.
BC	BATTERY CHARGER
C	CEILING MOUNTED
D	EXISTING ITEM TO BE DEMOLISHED. REMOVE ALL EXISTING WIRING, CONDUIT, ETC.
DP	DISTRIBUTION PANEL
EM	CONNECTED TO EMERGENCY POWER
EX	EXISTING IN RELOCATED. EXTEND EXISTING WIRING IN CONDUIT TO NEW LOCATION AND CONNECT
EX	EXISTING ITEM TO REMAIN AS INSTALLED
F	FLOOR MOUNTED
GFI	GROUND FAULT INTERRUPTER
HP	HORSE POWER RATED SWITCH
IG	ISOLATED GROUND
KS	KEY SWITCH
LP	LIGHTING PANEL
LS	LIFE SAFETY
LV	LOW VOLTAGE SWITCH
MD	MOTION DETECTOR
ML	MAG-LOCK
MW	MICROWAVE
N	NIGHT LIGHT
OS	OCCUPANCY SENSOR
P	PILLOT LIGHT
RM	ROOF MOUNTED
RP	EXISTING ITEM IN RELOCATED POSITION
RP	RECEPTACLE PANEL
RR	EXISTING ITEM TO BE REMOVED AND REINSTALLED IN EXISTING LOCATION.
SUP	SUSPEND MOUNTED
SWBO	SWITCHBOARD
TL	TWISTLOCK
TP	TAMPER PROOF
TX	TRANSFORMER
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
WP	WEATHERPROOF

ELECTRICAL DRAWING LIST	
E-001	DRAWING LIST, KEY PLAN, LEGEND
E-100	SINGLE LINE DIAGRAMS, PANEL SCHEDULES
E-101	FIRE ALARM SYSTEM AND RISER
E-200	SITE PLAN - LIGHTING LEVELS
E-201	SITE PLAN
E-202	FLOOR PLANS - DEMOLITION
E-203	ROOF PLAN - DEMOLITION
E-300	GROUND LEVEL POWER - NEW WORK
E-301	SECOND LEVEL POWER - NEW WORK
E-302	ROOF LEVEL POWER - NEW WORK
E-400	GROUND LEVEL LIGHTING - NEW WORK
E-401	SECOND LEVEL LIGHTING - NEW WORK
E-500	DETAILS
E-501	DETAILS
E-502	DETAILS
E-503	DETAILS

POWER SYMBOLS	
SYMBOL	DESCRIPTION
	DURESSE ALARM INTERCOM STATION
	SECURITY SYSTEM DOOR ALARM CONTACTS, RECESSED IN DOOR AND FRAME.
	SECURITY SYSTEM MOTION DETECTOR
	SECURITY SYSTEM MOTION DETECTOR 180°
	SECURITY SYSTEM MOTION DETECTOR 360°
	SECURITY SYSTEM CARD READER OUTLET
	SECURITY SYSTEM COMBINATION GLASS BREAK/MOTION DETECTOR
	SECURITY SYSTEM DISARMING KEYPAD
	CEILING OR WALL MOUNTED CLOSED CIRCUIT TELEVISION CAMERA FOR SECURITY SYSTEM. "WP" DENOTES ENVIRONMENTAL HOUSING. SIMILAR TO ABOVE REQUIRING 120V POWER CONNECTION

NEW EXISTING											
PANEL A:											
LOAD DESCRIPTION	NOTE	LOAD	BKR	CCT No	PH	CCT No	BKR	LOAD	NOTE	LOAD DESCRIPTION	
FIRE ALARM PANEL	-	350	15A	1	A	2	40A	3150		UNIT HEATER UBL1	
FIRE ALARM MONITORING PANEL	-	200	15A	1	B	4	3P	3150			
EXIT BATTERY UNIT	-	100	15A	5	C	6		3150			
PANEL RECEPTACLE		500	20A	7	A	8	40A	3150		UNIT HEATER UBL2	
GARAGE RECEPTACLE		500	20A	9	B	10	3P	3150			
GARAGE RECEPTACLE		500	20A	11	C	12		3150		UNIT HEATER UBL3	
CHARGE RECEPTACLE		500	20A	13	A	14	40A	3150			
ELEVATOR ROOM RECEPTACLE		200	15A	15	B	16	3P	3150			
ELEVATOR PIT RECEPTACLE		200	15A	17	C	18		3150			
UNIT HEATER IN SHED		750	15A	19	A	20	40A	3150		UNIT HEATER UBL4	
BUNKER LIGHTS		170	15A	21	B	22	3P	3150			
WALL SCONCE/CANOPY LIGHTING		101	15A	23	C	24		3150		ELEVATOR CAB	
POWER TO GATE ACCESS REDESTAL		500	20A	25	A	26	20A	1250			
ELEVATOR CAB LIGHT		100	15A	27	B	28	3P	1250			
POWER TO GATE ACCESS		1000	20A	29	C	30		1250			
LAWN MOWER CHARGER		1200	20A	31	A	32	15A	800		GARAGE DOOR	
LAWN MOWER CHARGER		1200	20A	33	B	34	3P	800			
LAWN MOWER CHARGER		1200	20A	35	C	36		800			
LAWN MOWER CHARGER		1200	20A	37	A	38	15A	800		GARAGE DOOR	
TOOL WALL RECEPTACLE		800	20A	39	B	40	3P	800			
TOOL WALL RECEPTACLE		600	20A	41	C	42		800			
TOOL WALL RECEPTACLE		600	20A	43	A	44	15A	800		GARAGE DOOR	
TOOL WALL RECEPTACLE		600	20A	45	B	46	3P	800			
TOOL WALL RECEPTACLE		600	20A	47	C	48		800			
ELEVATOR PIT LIGHTING		30	15A	49	A	50	15A	570		GARAGE LIGHTING	
ELEVATOR MACHINE + MEZZ IT LTO		78	15A	51	B	52	15A	760			
VESTIBULE 102 + AISLE 103 LIGHTING		480	15A	53	C	54	15A	855		GARAGE LIGHTING	
RTU-1, CU-1, CU-2 ROOF RECEPTACLE		200	20A	55	A	56	40A	3150		UNIT HEATER UBL5 (FOR SHED)	
SPLIT SYSTEM AC-1 CU-1		915	30A	57	B	58	2P	3150			
SPLIT SYSTEM AC-2 CU-2		915	2P	59	C	60		3150			
		915	30A	61	A	62	15A	3150			
		915	2P	63	B	64	15A				
				65	C	66	15A				
				67	A	68	15A				
				69	B	70	15A				
				71	C	72	15A				
				73	A	74	15A				
				75	B	76	15A				
				77	C	78	15A				
				79	A	80	15A				
				81	B	82	15A				
				83	C	84	15A				
PHASE: 3										SURFACE: <input type="checkbox"/>	
WIRE: 4										DRIP HOOD: <input checked="" type="checkbox"/>	
MAINS: 400 A										FEED THROUGH LUGS: <input type="checkbox"/>	
KAIC RATING: 20										MAIN BREAKER: 100A <input type="checkbox"/>	
LOCATION: GARAGE										# DENOTES NEW BREAKER	
FED FROM: DISTRIBUTION PANEL 'DP'										* DENOTES LOCK TYPE BREAKER	
										** DENOTES GFI TYPE BREAKER	

NEW EXISTING											
PANEL EV:											
LOAD DESCRIPTION	NOTE	LOAD	BKR	CCT No	PH	CCT No	BKR	LOAD	NOTE	LOAD DESCRIPTION	
EV CHARGER		3800	40A	1	A	2	40A	3800		EV CHARGER	
EV CHARGER		3800	2P	3	B	4	2P	3800			
EV CHARGER		3800	40A	5	C	6	40A	3800		EV CHARGER	
EV CHARGER		3800	2P	7	A	8	2P	3800			
EV CHARGER		3800	40A	9	B	10	40A	3800		EV CHARGER	
EV CHARGER		3800	2P	11	C	12	2P	3800			
EV CHARGER		3800	40A	13	A	14	40A	3800		EV CHARGER	
EV CHARGER		3800	2P	15	B	16	2P	3800			
EV CHARGER		3800	40A	17	C	18	40A	3800		EV CHARGER	
EV CHARGER		3800	2P	19	A	20	2P	3800			
EV CHARGER		3800	40A	21	B	22	40A	3800		EV CHARGER	
EV CHARGER		3800	2P	23	C	24	2P	3800			
EV CHARGER		3800	40A	25	A	26	40A	3800		EV CHARGER	
EV CHARGER		3800	2P	27	B	28	2P	3800			
EV CHARGER		3800	40A	29	C	30	40A	3800		EV CHARGER	
EV CHARGER		3800	2P	31	A	32	2P	3800			
BLOCK HEATER		1000	15A	33	B	34	40A	3800		EV CHARGER	
BLOCK HEATER		1000	15A	35	C	36	3P	3800			
BLOCK HEATER		1000	15A	37	A	38	40A	3800		EV CHARGER	
BLOCK HEATER		1000	15A	39	B	40	2P	3800			
BLOCK HEATER		1000	15A	41	C	42	15A				
				43	A	44	15A				
				45	B	46	15A				
				47	C	48	15A				
				49	A	50	15A				
				51	B	52	15A				
				53	C	54	15A				
				55	A	56	15A				
				57	B	58	15A				
				59	C	60	15A				
				61	A	62	15A				
				63	B	64	15A				
				65	C	66	15A				
				67	A	68	15A				
				69	B	70	15A				
				71	C	72	15A				
				73	A	74	15A				
				75	B	76	15A				
				77	C	78	15A				
				79	A	80	15A				
				81	B	82	15A				
				83	C	84	15A				
PHASE: 3										SURFACE: <input type="checkbox"/>	
WIRE: 4										DRIP HOOD: <input checked="" type="checkbox"/>	
MAINS: 600 A										FEED THROUGH LUGS: <input type="checkbox"/>	
KAIC RATING: 20										MAIN BREAKER: 100A <input type="checkbox"/>	
LOCATION: GARAGE										# DENOTES NEW BREAKER	
FED FROM: DISTRIBUTION PANEL 'DP'										* DENOTES LOCK TYPE BREAKER	
										** DENOTES GFI TYPE BREAKER	

PANEL B:											<input checked="" type="checkbox"/> NEW <input type="checkbox"/> EXISTING	
LOAD DESCRIPTION	NOTE	LOAD	BKR	CCT NO	PH	CCT NO	BKR	LOAD	NOTE	LOAD DESCRIPTION		
BATTERY (WELL - 1200W + 1500W + 1500W)		450	15A	1	A	2	15A	1200		GARAGE DOOR		
BASEBOARD HEATERS BH1 + BH3		1000	15A	3	B	4	3P	1200				
BASEBOARD HEATERS BH2 + BH4		1000	15A	5	C	6		1200				
BASEBOARD HEATERS BH5 + BH6		1000	15A	7	A	8	30A	2200		HOT WATER TANK <u>DHWT</u>		
BASEBOARD HEATERS BH7 + BH8		1000	15A	9	B	10	3P	2200				
PRINTER		800	20A	11	C	12		2200				
WORKSHOP, SPRINKLER, STAIR LTO		468	15A	13	A	14	30A	2200	**	DRYER		
ELECTRICAL DISTRIBUTION RM LUG		150	15A	15	B	16	3P	2200				
ELECTRICAL + COMMS ROOM RECEPT		100	20A	17	A	18		2200				
ACCESS CONTROL UNIT		200	15A	19	A	20	20A	1500		WASHER		
SECURITY CONTROL PANEL		200	15A	21	B	22	15A	600		FRIDGE		
KEYSCAN		200	15A	23	C	24	15A	300		KITCHEN TV		
NVR RACK		200	15A	25	A	26	20A	1200		MICROWAVE		
IT CABINET		200	15A	27	B	28	20A	1200		MICROWAVE		
IT CABINET		200	15A	29	C	30	20A	800		KITCHEN COUNTER TOP		
LUPS		300	15A	31	A	32	20A	800		KITCHEN COUNTER TOP		
BAS CONTROLLER		200	15A	33	B	34	20A	600		DISHWASHER		
FORCE FLOW HEATER FEHL		1500	20A	35	C	36	20A	300		JANITORS CLOSET RECEPTACLE		
KEYBOX		100	15A	37	A	38	15A	300		KITCHEN RECEPTACLES		
DOOR OPERATOR		800	15A	39	B	40	15A	500		WATER FOUNTAIN		
DOOR OPERATOR		800	15A	41	C	42	15A	200		GENERAL RECEPTACLES		
GENERAL RECEPTACLES		300	15A	43	A	44	15A	800		WASHRM 106 CALL ASSISTANCE SYS		
EXTERIOR POLE LIGHTING		448	15A	45	B	46	15A	150		WASHROOM 106 RECEPTACLE		
NIGHT OUTDOOR LIGHTING CONTROLLER		100	15A	47	C	48	15A	800		WASHRM 107 CALL ASSISTANCE SYS		
MEETING ROOM GENERAL RECEPTACLES		300	15A	49	A	50	15A	150		WASHROOM 107 RECEPTACLE		
MEETING ROOM TELEVISION		600	15A	51	B	52	20A	1000		WASHROOM 108 HAND DRYER		
DESK RECEPTACLE		600	15A	53	C			200		WASHROOM 107 HAND DRYER		
DESK RECEPTACLE		600	15A	55	B	56	15A	800		WASHRM 205 CALL ASSISTANCE SYS		
DESK RECEPTACLE		600	15A	57	B	58	15A	150		WASHROOM 205 HAND DRYER		
MEZZANINE AISLE RECEPTACLES		100	15A	59	C	60	20A	1000		WASHROOM 205 HAND DRYER		
OFFICE GENERAL RECEPTACLES		100	15A	61	A	62	15A	200		STORAGE ROOM RECEPTACLES		
DATA CORD RECEPTACLE		100	15A	63	A			622		COMMUNICATIONS WASH DRYER AISLE LUGS		
		66	15A	65	C			100		WASHROOM MEET AISLE * OFFICE LIGHTING		
		47	68	15A	84			840		MEET STORAGE, WASH AISLE, MEETING RM LUGS		
		69	70									
		71	71									
		73	72									
		75	76									
		77	78									
		79	80									
		81	82									
		83	84									
											<input type="checkbox"/>	
PHASE: 3											<input checked="" type="checkbox"/> SURFACE	
WIRE: 4											<input type="checkbox"/> DRIP HOOD	
MAINS: 400 A											<input type="checkbox"/> FEED THROUGH LUGS	
KAIC RATING: 20											<input type="checkbox"/> MAIN BREAKER: 100A	
LOCATION: COMMUNICATIONS ROOM											# DENOTES NEW BREAKER	
DISTRIBUTION PANEL 'D'											* DENOTES LOCK TYPE BREAKER	
											* DENOTES GFI TYPE BREAKER	



GENERAL DRAWING NOTES

1. UNDERGROUND FEED FOR EXTERIOR LIGHTING. PENETRATIONS LEAVING INTERIOR OF BUILDING SHALL BE BELOW GRADE. NO SURFACE MOUNTED RACEWAY TO BE INSTALLED ON THE EXTERIOR OF BUILDING. ROUTING LOCATIONS SHOWN FOR CONCEPTUAL PURPOSES AND MAY VARY AS PER SITE CONDITIONS. DETERMINE EXACT PENETRATION POINTS AND ROUTING OF CONDUITS ON SITE.
2. PROVIDE NEW LIGHTING FIXTURES AS INDICATED ALONG WITH REQUIRED POLE, FOUNDATION, TRENCHES, URD AND FEEDERS. COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECT FOR PHASING OF THE CONSTRUCTION WORK. REFER TO PROVIDED DETAILS FOR MORE INFORMATION.



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CONSULTANT - STRUCTURAL



CONSULTANT - ELECTRICAL



CONSULTANT - MECHANICAL



CLIENT



CITY FILE No.: SP-24-0009

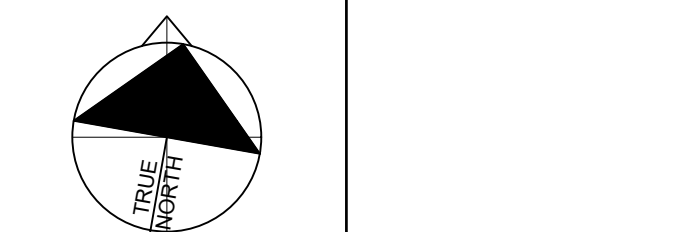
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CONSTRUCTION**

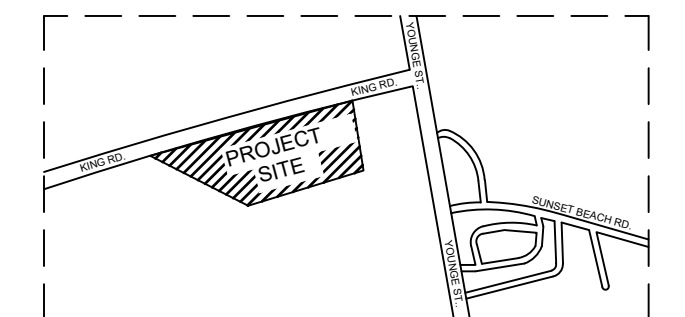
THIS BAR IS 25mm LONG WHEN PLOTTED AT








NORTH ARROW:	DIGITAL REFERENCE:
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PROJECT NO.: CA0011757.0343 CONTRACT NO.

KEYPLAN:



Statistics ****(PLEASE NOTE THIS FACILITY WILL BE A 24/7 OPERATIONAL)****						
Description	Symbol	Avg	Max	Min	Max/min	Avg/min
CANOPY BAYS		4.6%	5.6%	3.7%	1.5:1	1.2:1
PARKING & DRIVES - ACCESSIBLE PARKING		1.9%	2.0%	1.7%	1.2:1	1.1:1
PARKING & DRIVES - ALL		12.2%	3.9%	0.4%	9.8:1	3.0:1
PARKING & DRIVES - MAIN DRIVE		13.3%	3.9%	0.5%	7.8:1	2.6:1
PROPERTY - BOUNDARY		0.1%	1.2%	0.0%	N/A	N/A
PROPERTY - WITHIN		0.5%	3.9%	0.0%	N/A	N/A
SITE		0.3%	3.9%	0.0%	N/A	N/A

NOTES:

1. PROVIDE A 16in x 30in COPPER GROUND ROD ADJACENT TO EACH POLE AND CONNECT TO METAL POLE WITH 1/4in AWG COPPER CONDUCTOR. PROVIDE COPPER CONDUCTOR TO METAL BASE FOR GROUND WIRE EXTENSION TO GROUND ROD.
2. MAKE ALL PROVISIONS FOR A COMPLETE POLE INSTALLATION INCLUDING THE ANCHORS AND MOUNTING DETAILS. COORDINATE WITH POLE MANUFACTURER FOR POLE INSTALLATION DETAILS INCLUDING POLE MOUNTING DETAILS TO THE POLE CONCRETE BASE, ECT. ENSURE THAT POLE AND ENTIRE LUMINAIRE ASSEMBLY ARE PROVIDED TO MEET THE LOADS AND EXPOSURE REQUIREMENTS OF THE AREA.
3. POLE MOUNTING DETAILS TO THE POLE CONCRETE BASE SHOWN IS FOR REFERENCE PURPOSE ONLY. POLE MOUNTING DETAILS TO THE POLE CONCRETE BASE AND ASSOCIATED COMPONENTS SHALL BE PROVIDED BY THE BASE PLATE, ANCHOR BOLTS, NUTS, WASHER AND ITS COVER, ECT. OBTAINED AND SUPPLIED PRIOR TO START OF WORK. COORDINATE WITH POLE MANUFACTURER, POLE BASE CONTRACTOR, SITE ENGINEER AND ARCHITECT FOR POLE MOUNTING DETAILS AND ENSURE POLE AND ITS ENTIRE ASSEMBLY ARE PROVIDED WITH POLE BASE CONTRACTOR. PROVIDE ALL ELECTRICAL PROVISIONS SUCH AS CONDUIT, GROUNDING CONNECTION, ECT. MAKE ALL PROVISIONS FOR A COMPLETE POLE INSTALLATION AS PER THE POLE MANUFACTURER RECOMMENDATION. FILL WITH GROUT AS REQUIRED AFTER POLE IS ELEVATED.
4. MAKE ELECTRICAL PROVISIONS INCLUDING CONDUIT, CABLING/WIRING, GROUNDING SYSTEM.
5. TERMINATION CONNECTIONS, ECT. POLE BASE IS PROVIDED AS SPECIFIED BY ANCHOR BOLT AND TO ARCHITECT. PROVIDE DETAIL FOR POLE BASE DETAILS. PRIOR TO START OF WORK, COORDINATE WITH POLE MANUFACTURER FOR POLE BASE CONDITIONS AND MAKE ALL PROVISIONS FOR A COMPLETE INSTALLATION AS PER CODES AND MANUFACTURER RECOMMENDATIONS.
6. CONCRETE FOUNDATION SHALL BE PLACED AGAINST UNDISTURBED SOIL.
7. CLASS OF CONCRETE IS TO BE 25MPa.

2025-04-15	ISSUED FOR TENDER
2025-03-27	ISSUED FOR ESA REVIEW
2025-04-17	RE-ISSUED FOR SITE PLAN APPROVAL III
2024-12-20	RE-ISSUED FOR SITE PLAN APPROVAL
2024-05-08	ISSUED FOR SITE PLAN APPROVAL
NO. DATE	ISSUED

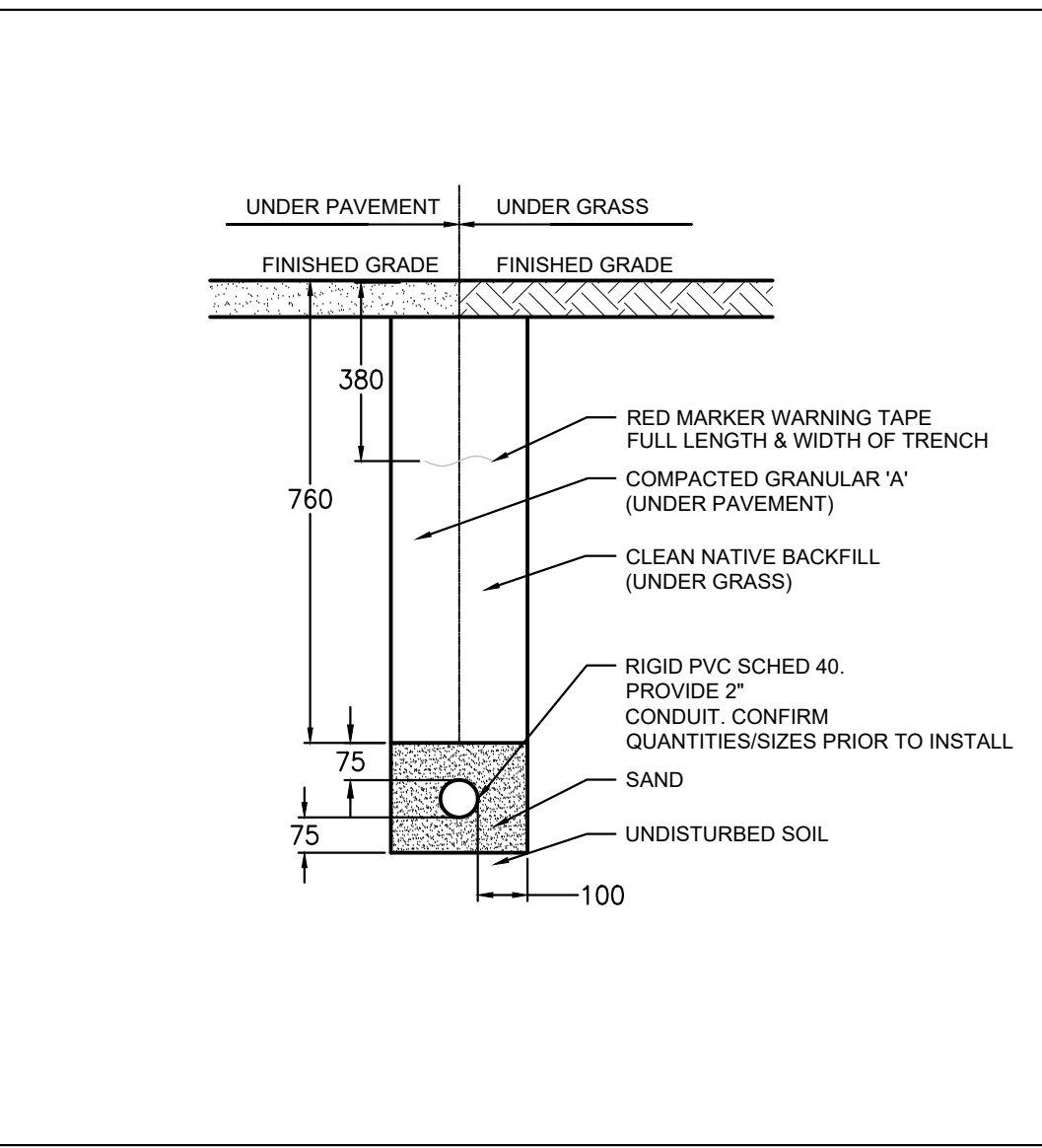
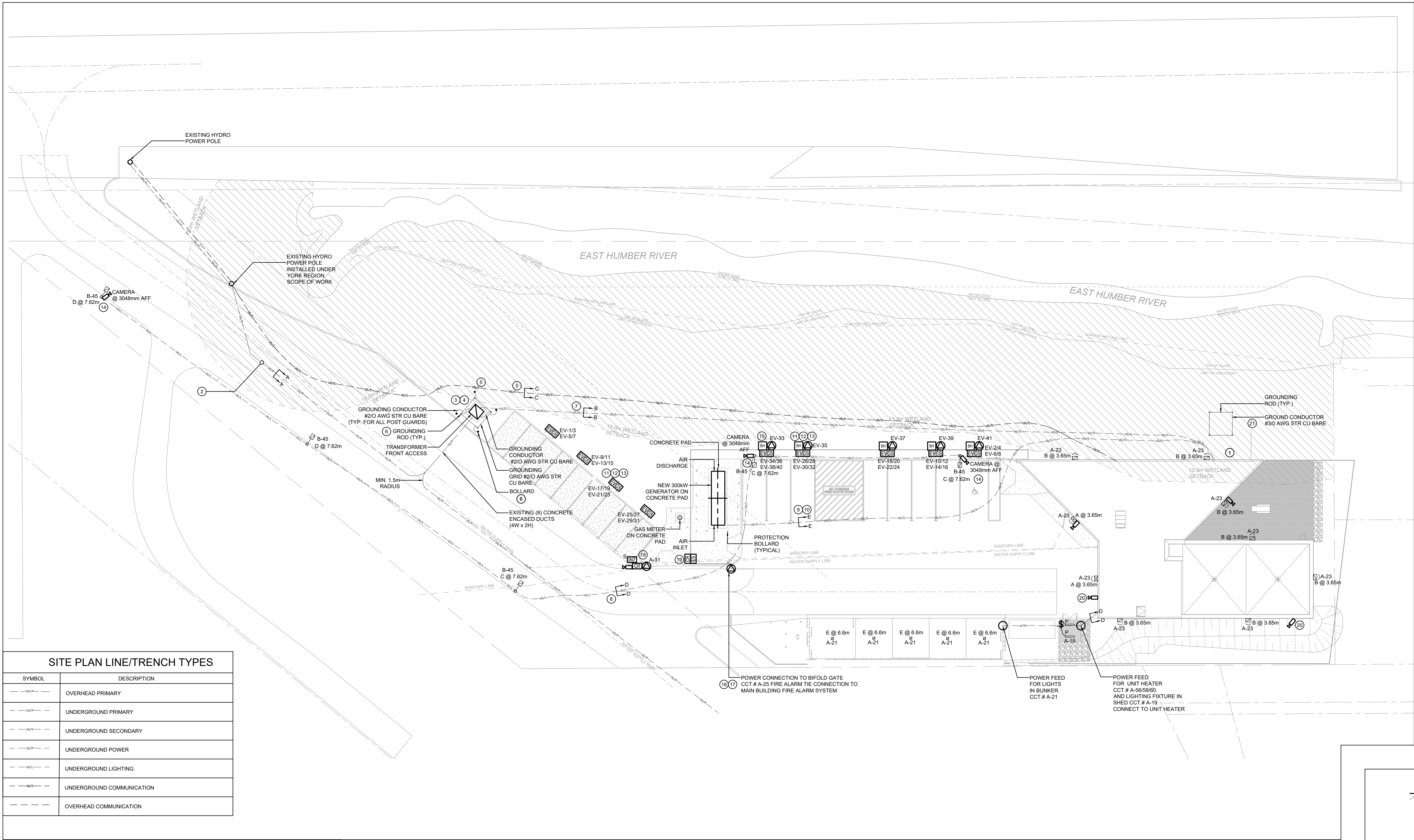
CONNOR BUILDING RENOVATIONS

DRAWING TITLE

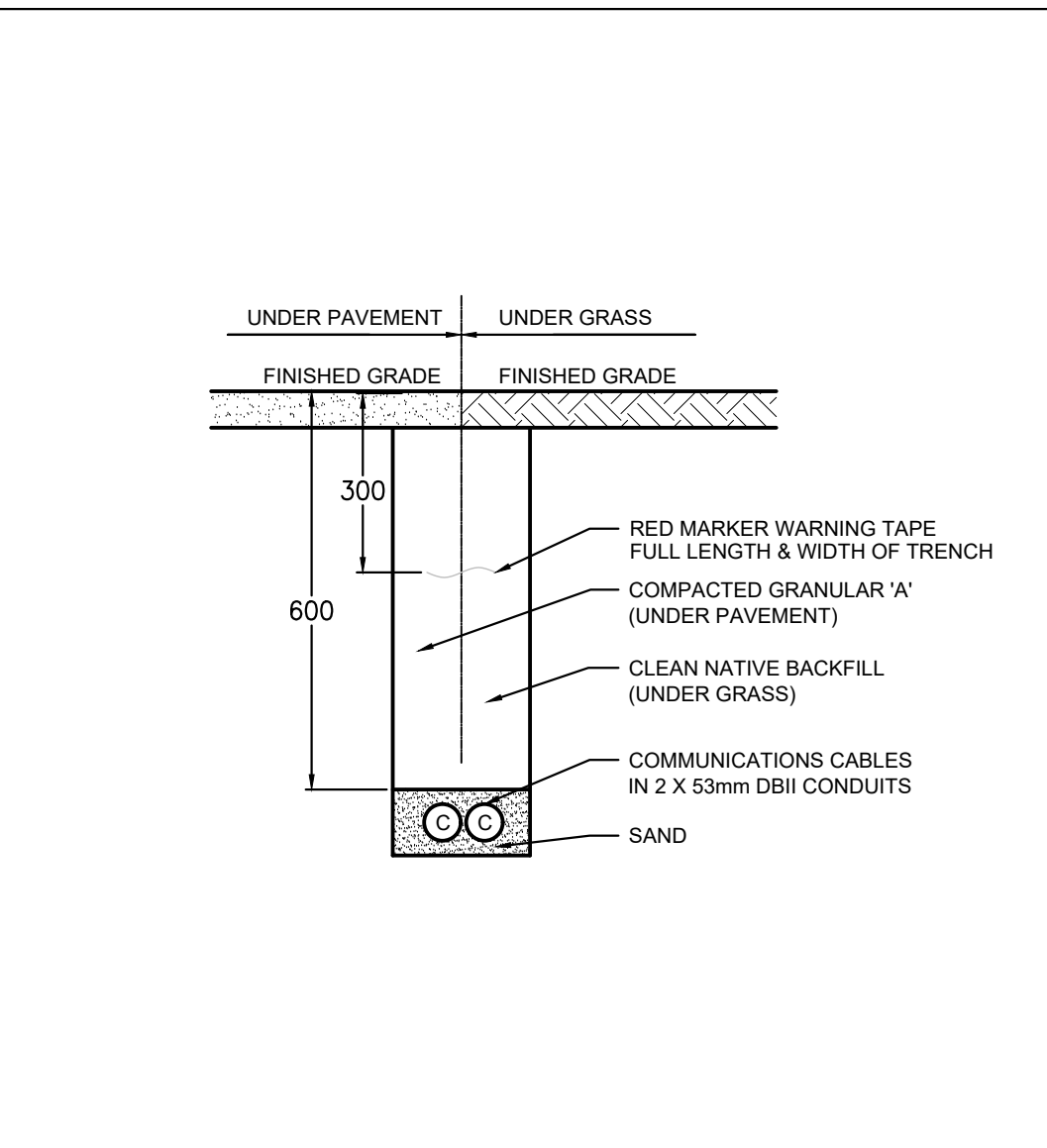
SITE PLAN - LIGHTING LEVELS

DRAWING NO. **E 200**

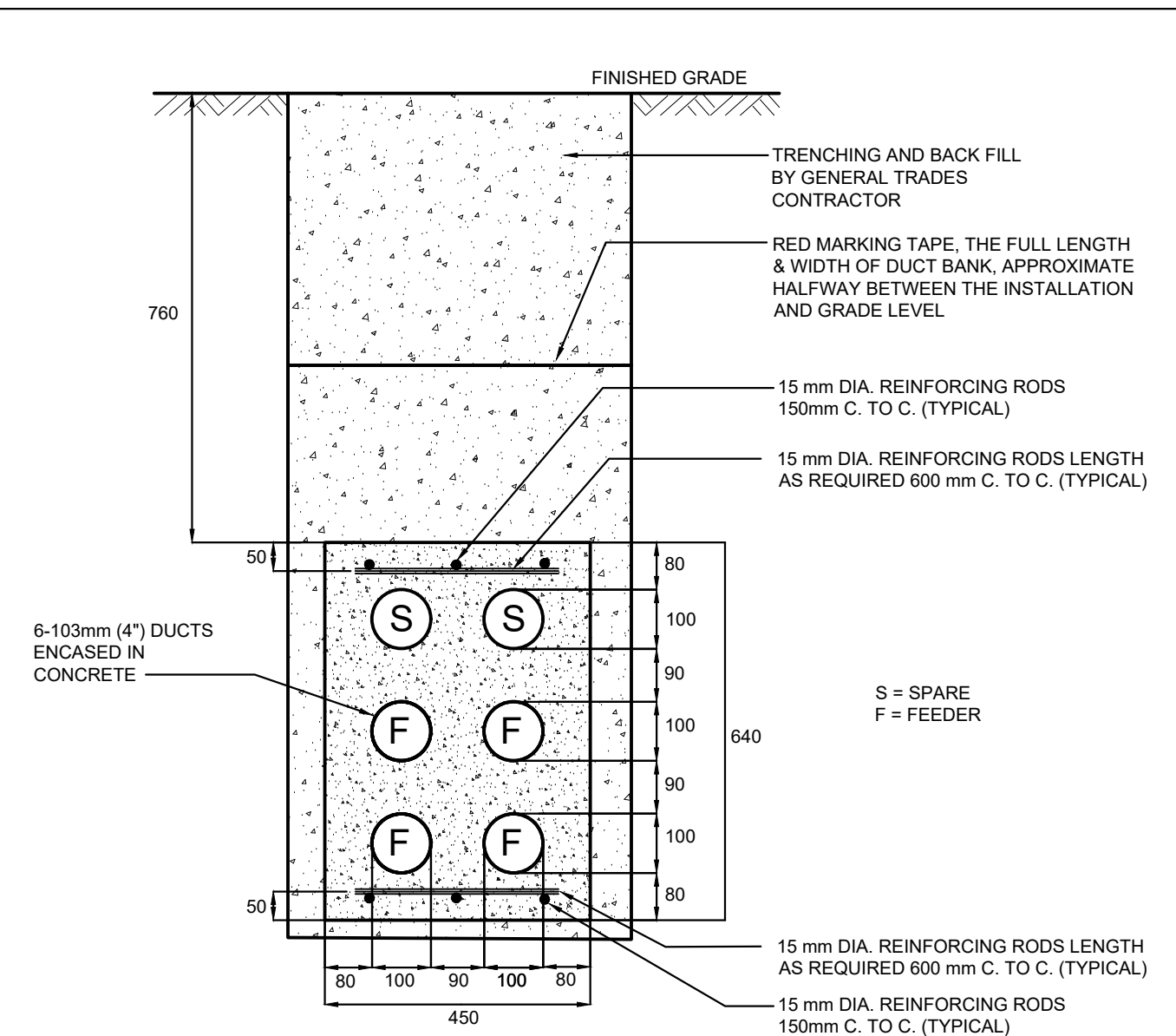
E-200



1
E-201
DETAIL OF UNDERGROUND POWER FEED (TRENCH D'-D')
SCALE: NTS



2
E-201
DETAIL OF UNDERGROUND COMMS FEED (TRENCH C'-C')
SCALE: NTS



3
E-201
DETAIL OF CONCRETE ENCASED DUCT BANK - (CROSS SECTION E'-E')
SCALE: NTS

GENERAL ELECTRICAL SITE PLAN DRAWING NOTES

- ELECTRICAL CONTRACTOR TO COORDINATE WITH LOCAL UTILITY COMPANY (ALECTRA), SITE VERIFY AND CONFIRM CABLE ROUTING AS PER SITE GEOGRAPHICAL CONDITION.
- COORDINATE WITH UTILITY FOR METERING REQUIREMENTS.
- INSTALL UNDERGROUND ELECTRICAL SERVICES IN A MANNER THAT AVOIDS CONFLICT TO MEET CODE AND LOCAL REQUIREMENTS.
- VISIT AND EXAMINE THE SITE AND BECOME FAMILIAR WITH ALL CONDITIONS AFFECTING THE WORK, PRIOR TO SUBMITTING TENDER. LOCATION FOR ALL EQUIPMENT TO BE RECONFORMED BY CONTRACTOR BASED ON EXISTING SITE CONDITION. NO ALLOWANCES IN COST WILL BE MADE BY THE OWNER FOR ANY DIFFICULTIES ENCOUNTERED IN THE WORK ARISING OUT OF CONDITIONS EXISTING AT THE TIME OF TENDERING. SITE VERIFY ALL DIMENSIONS PRIOR TO ORDERING WIRING OR EQUIPMENT FOR INSTALLATION.
- ALL NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT AND METAL SYSTEMS INCLUDING FENCE TO BE BONDED, METAL AND FENCE WITHIN 2.4M OF TRANSFORMER TO BE PROVIDED WITH ADDITIONAL BONDING AND GROUNDING. REFER TO OESC SECTION 36-312.
- ALL ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH CIVIL/ARCHITECTURAL DRAWINGS.
- THESE DRAWINGS ARE DIAGRAMMATIC ONLY. BEFORE ANY ELECTRICAL EQUIPMENT IS ROUGHED IN, ITS EXACT LOCATION SHALL BE DETERMINED FROM THE ARCHITECT'S PLANS AND INTERIOR DRAWINGS. DETAILS AND ELEVATION OR DETAILS ON THE ELECTRICAL DRAWINGS, WHERE THIS DETAILED INFORMATION IS NOT SHOWN ON THE DRAWINGS, VERIFY THE EXACT LOCATION ON SITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN ISOLATION AT THE TIME OF ANY OUTAGE. THE OWNER WILL PROVIDE OVERSIGHT AND PERMISSIONS TO OPERATE BREAKERS AFFECTING LOAD HOWEVER, OWNER WILL NOT BE PHYSICALLY EXERCISING THOSE BREAKERS, PROVIDING ELECTRICAL ISOLATION, AND MEANS TO LOCK OUT ELECTRICAL EQUIPMENT. THOSE INDIVIDUALS OPERATING THESE BREAKERS SHALL CONSIDER THEIR OWN LEVEL OF PPE AS DICTATED BY THEIR CORPORATE SAFETY PLAN IN CONJUNCTION WITH OSHA REGULATIONS UNDER THE ASSUMPTION THAT A FACILITY ARC FLASH HAZARD ASSESSMENT STUDY HAS NOT BEEN CONDUCTED.
- THE DRAWINGS ARE NOT TO BE SCALED FOR INSTALLATION PURPOSES. ALL MEASUREMENTS ARE TO BE OBTAINED FROM ARCHITECTURAL PLANS, ELEVATIONS, SHOP DRAWINGS OR BE OBTAINED FROM FIELD MEASUREMENTS.
- DETAILS ARE INTENDED TO BE FOR GENERAL ARRANGEMENT ONLY. THEY DO NOT SHOW ALL NECESSARY COMPONENTS, BUT ARE MERELY A GUIDE AS TO THE ORIENTATION OF THE EQUIPMENT.
- INTERRUPTION OF ELECTRICAL SERVICE FOR ANY PART OF THE BUILDING SHALL OCCUR ONLY BY PER-ARRANGEMENT WITH AND AT TIMES SUITABLE TO THE OWNER.
- LUMINAIRE MOUNTING HEIGHTS, WHERE SPECIFIED, ARE GIVEN FROM FINISHED FLOOR TO THE UNDERSIDE OF LUMINAIRE UNLESS OTHERWISE INDICATED.
- EXACT LOCATIONS OF LUMINAIRES/FIXTURES ETC ARE SUBJECT TO ARCHITECT'S APPROVAL PRIOR TO INSTALLATION.
- ALL DIMENSIONS ARE IN METRIC UNLESS OTHERWISE NOTED.

CODED DRAWINGS NOTES

- EXISTING OVERHEAD MAIN INCOMING SERVICE TO BE DECOMMISSIONED TO BE PULLED BACK TO SOURCE, CONTACT ALECTRA UTILITIES FOR DISCONNECT. REFER TO DWG. 1E-300 FOR FURTHER DETAILS.
- EXISTING PRIMARY DUCTBANK FOR NEW 500kVA/27 (8V-120-208V/30) IN EASEMENT. TO BE PRE-INSTALLED COMPLETE WITH WIRING FROM EXISTING HYDRO POLE TO PRE-INSTALLED PRECAST TRANSFORMER BASE TO ALLOW FOR ALECTRA POWER FEEDS TO THIS TENANCY (UNDER THE CITY OF RICHMOND HILL) AND NEIGHBORING TENANCY (UNDER YORK REGION). EXISTING WIRING TO BE COILED IN PRECAST TRANSFORMER BASE WITH ADEQUATE SLACK. PRE-INSTALL OF PRIMARY DUCT TO BE BY YORK REGION IN AGREEMENT WITH THE CITY OF RICHMOND HILL. DUCTBANK TO HAVE BEEN INSTALLED AS PER ALECTRA STANDARDS. REFER TO DETAIL 2E-500.
- PRECAST CONCRETE TRANSFORMER BASE TO BE PROVIDED AND INSTALLED BY YORK REGION IN AGREEMENT WITH THE CITY OF RICHMOND HILL. PRECAST BASE INSTALL TO FACILITATE INCOMING ALECTRA UTILITIES MAIN INCOMING SERVICE FEEDER COILED WITH ADEQUATE SLACK. GROUNDING AND BOLLARDS TO BE INSTALLED UNDER THIS SCOPE OF WORK. PRECAST BASE TO BE INSTALLED AS PER DETAIL 5E-500.
- NEW 500kVA/27 (8V-120-208V/30/4W) OUTDOOR PADMOUNTED STEP-DOWN TRANSFORMER TO BE SUPPLIED AND INSTALLED BY ALECTRA UTILITIES. ALECTRA CONTRACTOR TO SPLICE INTO COILED PRIMARY SERVICE FEEDER CABLE THAT WAS PREVIOUSLY INSTALLED. THIS CONTRACTOR SHALL ARRANGE WITH NEIGHBOURING YORK REGION TENANT FOR SCHEDULED SHUT OF ELECTRICAL SERVICE TO FACILITATE THE INSTALL OF THIS 500kVA TRANSFORMER. FOR INSTALLATION OF TRANSFORMER CONTACT PAUL YUEN OF 'ALECTRA UTILITIES' <TEL: 416-386-5625, EMAIL: paul.yuen@alctratilities.com>. FOR SCHEDULED SHUT-DOWN OF POWER CONTACT YORK REGION REPRESENTATIVE (AFSHIN NASERI) <TEL: 905-953-6592, EMAIL: afshin.nasari@york.ca>. REFER TO DWG. E-100 FOR FURTHER DETAILS.
- (2) x 50mm EMPTY EXISTING COMMUNICATION PVC CONDUIT C/W PULLSTRIP RAN FROM EXISTING HYDRO POLE BURIED AND TRENCHED TO STAKEOUT LOCATION TO BE EXTENDED FROM DEMARCATION POINT TO THE NEW MAIN ELECTRICAL ROOM INSIDE OF THE BUILDING. EXISTING PVC INSTALL FROM POLE TO DEMARCATION POINT TO BE INSTALLED. TRENCHED THROUGH EASEMENT AND BURIED BY YORK REGION CONTRACTOR. YORK REGION CONTRACTOR TO STAKEOUT END OF PVC CONDUIT RUNS FOR FURTHER EXTENSION BY THIS ELECTRICAL CONTRACTOR. DETERMINE EXACT ROUTING LOCATIONS AND CONNECTION REQUIREMENTS ON SITE PRIOR TO EXTENSION AND TERMINATION OF COMMUNICATIONS CONDUITS FOR NEW COMMUNICATIONS SERVICES. REFER TO DWG. 2E-201 FOR FURTHER DETAILS.
- PROVIDE GROUNDING AND BOLLARDS TO ALECTRA UTILITY STANDARDS. COORDINATE EXACT QUANTITY OF BOLLARDS WITH UTILITY. ALLOW FOR FOUR (4) BOLLARDS. REFER TO DWG. 4E-500 FOR FURTHER DETAILS.
- NEW SECONDARY FEEDER USING SIX (6) PARALLEL RUNS OF 4C-600MCM CABLE IN 103mm DUCTS INSTALLED UNDERGROUND WITHIN PROPERTY LINE AND AS PER ALECTRA AND OESC STANDARDS. APPROXIMATE ROUTING SHOWN FOR PRICING PURPOSES ONLY. EXACT FINAL ROUTING SHALL BE COORDINATED ON-SITE PRIOR TO COMMENCEMENT OF WORK. SECONDARY FEEDER TO BE TERMINATED TO NEW MAIN SWITCHBOARD DISCONNECT IN NEW MAIN ELECTRICAL ROOM. REFER TO DWGS. 1E-500 AND 3E-500 FOR FURTHER DETAILS.
- UNDERGROUND FEEDER FOR LIGHTING POLES APPROXIMATE ROUTING SHOWN FOR PRICING PURPOSES ONLY. COORDINATE EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS ON SITE PRIOR TO COMMENCEMENT OF WORK. REFER TO DWG. 1E-201 FOR FURTHER DETAILS.

- NEW UNDERGROUND CONCRETE ENCASED DUCT BANK. ALL TRENCHING AND BACKFILLING BY GENERAL CONTRACTOR. CONCRETE ENCASED DUCT BANK AND ASSOCIATED CONDUIT WORK BY ELECTRICAL CONTRACTOR. SEE CROSS SECTION DETAILS ON DRAWING. 3E-201 FOR REQUIREMENTS. PRIOR TO START OF WORK, BE RESPONSIBLE TO COORDINATE WITH OTHER UNDERGROUND SERVICES INFRASTRUCTURE. UNDERGROUND SERVICE CONTRACTOR BUILDING FOUNDATION, GENERAL CONTRACTOR, SITE CONDITIONS, AND ETC. FOR EXACT INSTALLATION DETAILS SUCH AS LOCATION, MOUNTING DETAILS, CONDUIT STUB UP LOCATION, ETC. AND INCLUDE ALL ASSOCIATED SYSTEM COMPONENTS SUCH AS OFFSETS, TRANSITIONS, ETC. FOR A COMPLETE INSTALLATION AS PER CODES.
- NEW GENERATOR FEEDER USING FOUR (4) PARALLEL RUNS OF 4C-600MCM CABLE IN 103mm DUCTS INSTALLED UNDERGROUND WITHIN PROPERTY LINE AND AS PER OESC STANDARDS. APPROXIMATE ROUTING SHOWN FOR PRICING PURPOSES ONLY. EXACT FINAL ROUTING SHALL BE COORDINATED ON-SITE PRIOR TO COMMENCEMENT OF WORK. FEEDER TO BE TERMINATED TO NEW AUTOMATIC TRANSFER SWITCH IN NEW MAIN ELECTRICAL ROOM. REFER TO DETAILS 3E-201. SPARE DUCTS TO BE USED FOR GENERATOR SHORE PANEL, GENERATOR CONTROLS WIRING AND FIRE ALARM SYSTEM MONITORING CONNECTIONS.
- PROVIDE TWO (2) 'LEVITON' 'EV320' LEVEL 2 ELECTRICAL VEHICLE CHARGING STATION WITH IT A DEDICATED PEDESTAL 'LEVITON' 'EPCMA-6' (PEDESTAL MOUNTED) AND RETRACTABLE CORD MANAGEMENT SYSTEM 'EPCMA-6'. PEDESTAL TO BE PROVIDED BY ELECTRICAL ON CONCRETE PAD (CONCRETE PAD BY OTHERS). PRIOR TO START OF WORK, COORDINATE WITH GENERAL CONTRACTOR/ARCHITECT AND MANUFACTURER FOR INSTALLATION DETAILS SUCH AS EXACT LOCATION, MOUNTING DETAILS, CONDUIT STUB UP LOCATION, ETC. AND INCLUDE ALL ASSOCIATED SYSTEM COMPONENTS FOR A COMPLETE INSTALLATION AS PER CODE AND MANUFACTURER'S RECOMMENDATION. SELECTION OF CHARGER EQUIPMENT TO BE COORDINATE WITH MANUFACTURER REPRESENTATIVE (CONTACT CRAIG FIELD OF 'LEVITON' <TEL: 647-202-7307, EMAIL: cfield@leviton.com>). OWNER AND CONSULTANT, SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO ORDERING AND FINALIZING SELECTION OF EV CHARGER EQUIPMENT TO BE INSTALLED. (TYPICAL).
- PROVIDE 4mmC EMPTY DIRECT BURIED UNDERGROUND RIGID PVC CONDUIT WITH FULL STRING FROM EACH EV CHARGING STATION HOME RUN BACK TO MAIN ELECTRICAL ROOM PANEL 'A' INSIDE MAIN ELECTRICAL ROOM AND CONNECT AND SEAL PROPERLY AND COMPLETELY 'AS PER CODE. (TYPICAL).
- BOLLARDS TO BE INSTALLED TO PROTECT EV CHARGERS FROM DAMAGE AS PER OESC SECTION 2-200. (TYPICAL).
- LIGHT POLE FIXTURE TO BE EQUIPPED TO ALLOW FOR CAMERA MOUNTING ON LIGHT POLE. REFER TO DWG. 3E-504 FOR FURTHER DETAILS.
- BLOCK HEATER RECEPTACLE TO BE MOUNTED ON EV CHARGER PEDESTAL. PROVIDE UNDERGROUND FEEDER FOR POWER. CIRCUIT EACH BLOCK HEATER RECEPTACLE AS SHOWN. PROVIDE PROTECTIVE BOLLARDS AS REQUIRED. COORDINATE EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS ON SITE PRIOR TO COMMENCEMENT OF WORK. (TYPICAL).
- BIFOLD GATE. PROVIDE FIRE ALARM TIE CONNECTION (WIRING WITHIN CONDUIT) FROM GATE TO FIRE ALARM CONTROL PANEL. SEE FIRE ALARM DRAWING E-101 FOR FURTHER DETAILS. PRIOR TO START OF WORK, COORDINATE WITH MANUFACTURER, SITE CONDITIONS, ETC. FOR INSTALLATION DETAILS SUCH AS CONNECTION REQUIREMENT, CONTACT RATING COMPATIBILITY WITH GATE OPERATION, TERMINATION LOCATION, ETC. AND INCLUDE ALL ASSOCIATED SYSTEM COMPONENTS FOR A COMPLETE INSTALLATION AS PER CODE AND MANUFACTURER'S RECOMMENDATION.

- PRIOR TO START OF WORK, COORDINATE WITH GATE MANUFACTURER/VENDOR/CONTRACTOR FOR THE INSTALLATION DETAILS AND MAKE ALL PROVISIONS INCLUDING GROUNDING SYSTEM, GROUNDING CONNECTION, ETC. FOR A COMPLETE INSTALLATION AS PER CODES AND MANUFACTURER'S RECOMMENDATION. REFER TO DWG. 1E-503 FOR FURTHER DETAILS.
- SECURITY PEDESTAL FOR BIFOLD GATE DRIVE-IN ACCESS. COORDINATE WITH GENERAL CONTRACTOR/ARCHITECT, SECURITY VENDOR AND GATE MANUFACTURER FOR INSTALLATION DETAILS SUCH AS EXACT LOCATION, MOUNTING DETAILS, CONDUIT STUB UP LOCATION, ETC. AND INCLUDE ALL ASSOCIATED SYSTEM COMPONENTS FOR A COMPLETE INSTALLATION AS PER CODE AND MANUFACTURER'S RECOMMENDATION. REFER TO DWGS. 1E-502 AND 5E-502 FOR FURTHER DETAILS.
- CARD READER FOR WALK-IN SECURITY GATE ACCESS. COORDINATE WITH GENERAL CONTRACTOR/ARCHITECT, SECURITY VENDOR AND GATE MANUFACTURER FOR INSTALLATION DETAILS SUCH AS EXACT LOCATION, MOUNTING DETAILS, CONDUIT STUB UP LOCATION, ETC. AND INCLUDE ALL ASSOCIATED SYSTEM COMPONENTS FOR A COMPLETE INSTALLATION AS PER CODE AND MANUFACTURER'S RECOMMENDATION. REFER TO DWGS. 2E-503 FOR FURTHER DETAILS.
- ELECTRICAL CONTRACTOR TO PROVIDE ROUGH-INS, JUNCTION-BOX AND CONDUIT C/W PULL STRING FOR ALL SECURITY DEVICES (CAMERAS, DOOR CONTACTS, CARD READERS, ELECTRIC STRIKES, ETC.). COORDINATE EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS ON SITE WITH SECURITY TRADES/VENDOR PRIOR TO INSTALL. (TYPICAL).
- NEW REMOTE ELECTRICAL GROUND GRID FOR NEW MAIN ELECTRICAL ROOM. CONTRACTOR TO INSTALL NEW GRID AS PER OESC. COORDINATE EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS ON SITE PRIOR TO INSTALL. REFER TO DWGS. E-100 FOR FURTHER DETAILS.

NOTES:

- EXACT CONSTRUCTION DETAILS SHALL CONFORM TO OESC REQUIREMENTS AND DETAILS.

CONSULTANT - STRUCTURAL



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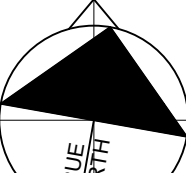
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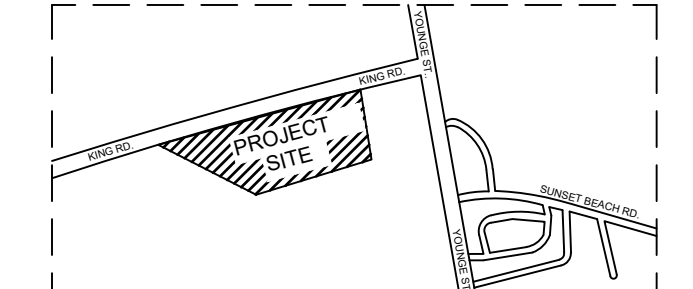


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PROJECT NO.: CAD011757-0043 CONTRACT NO.

DRAWN BY: Author CHECKED BY: Checker APPROVED BY: Approve

KEYPLAN:



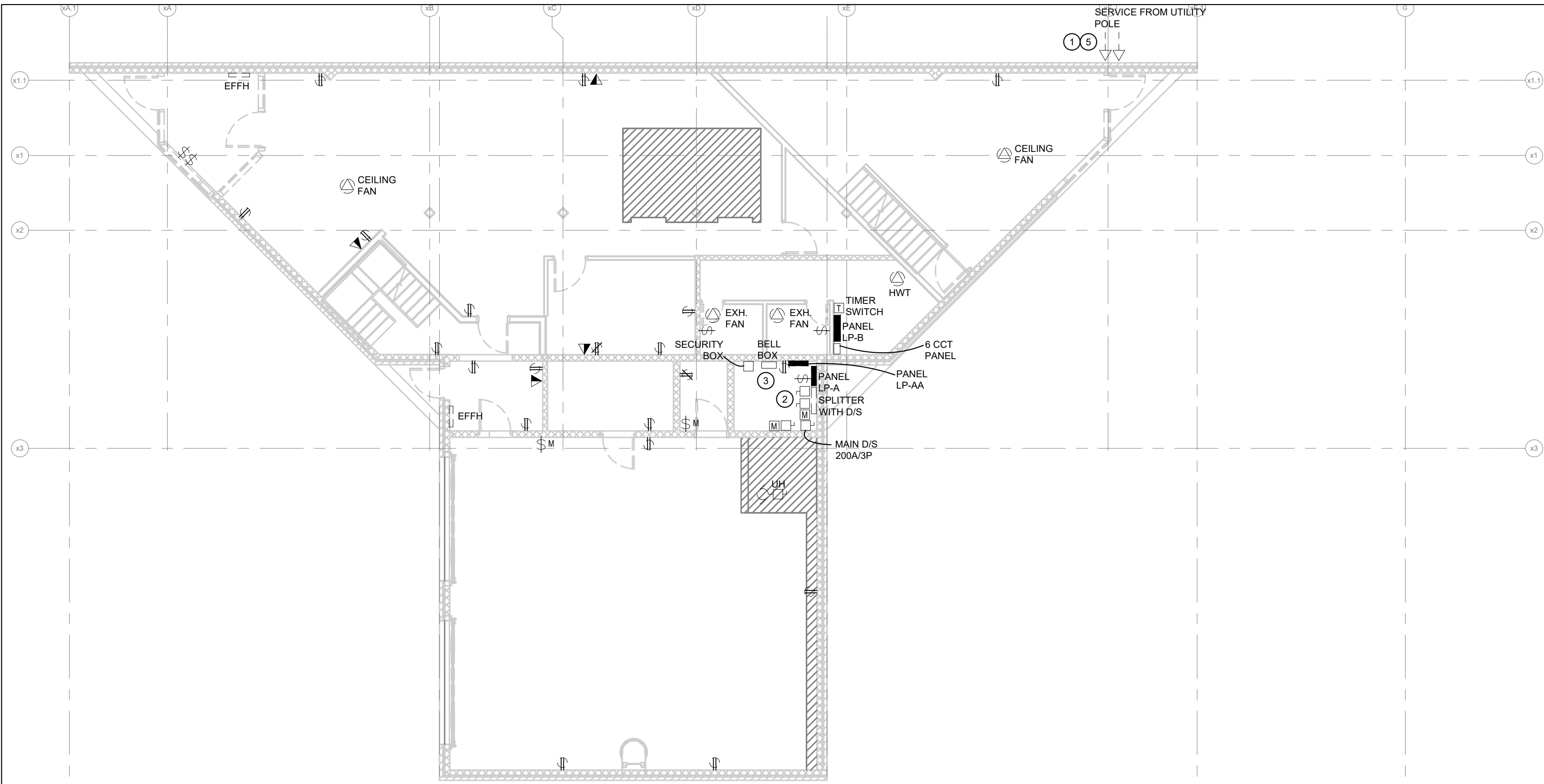
CONNOR BUILDING
RENOVATIONS

DRAWING TITLE

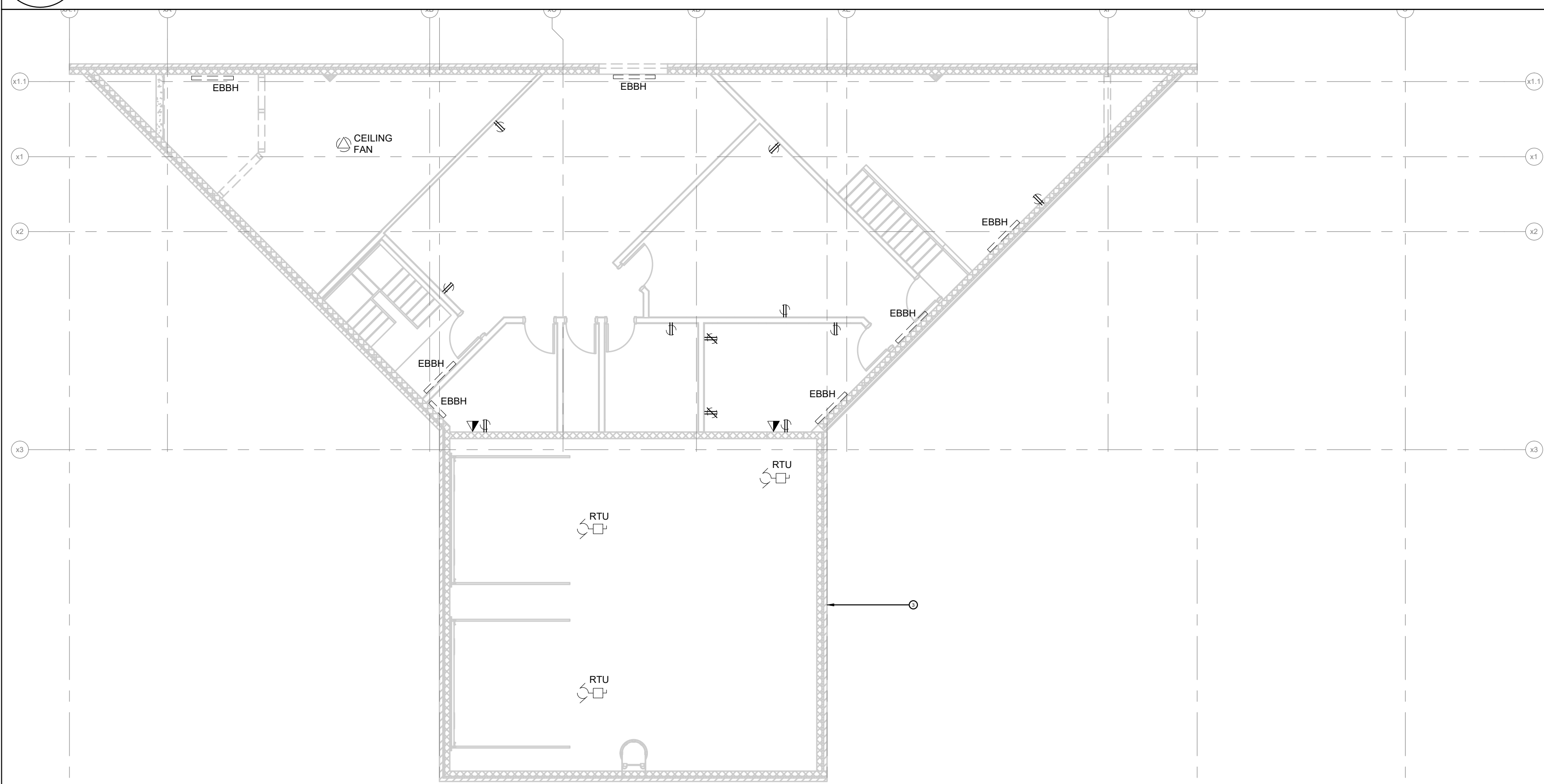
SITE PLAN

DRAWING NO.

E-201



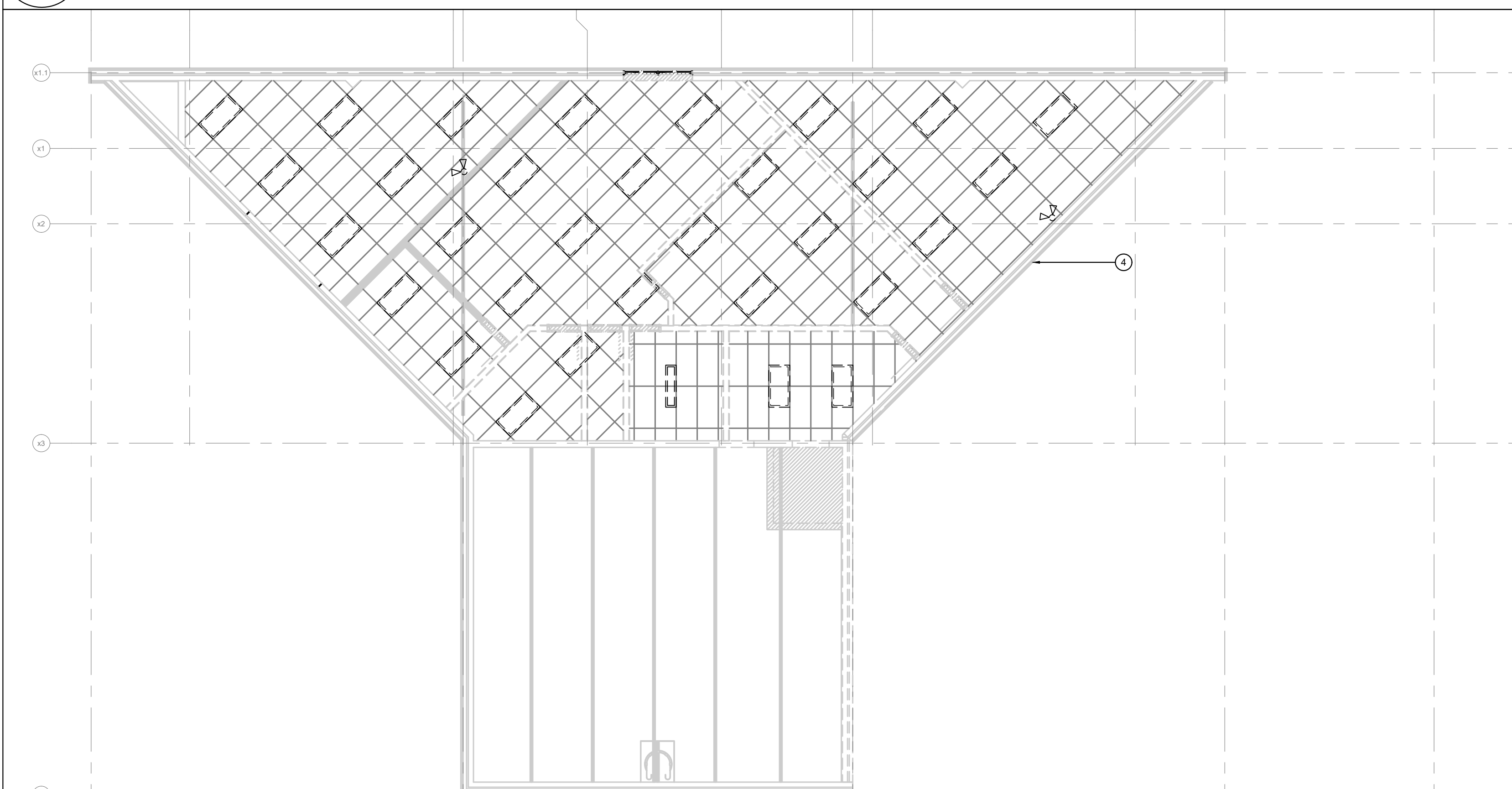
1 GROUND LEVEL POWER - DEMOLITION
E-202 SCALE: 1:100



2 MEZZANINE LEVEL - DEMOLITION
E-202 SCALE: 1:100



3 GROUND LEVEL LIGHTING - DEMOLITION
E-202 SCALE: 1:100



4 MEZZANINE LEVEL LIGHTING - DEMOLITION
E-202 SCALE: 1:100

GENERAL ELECTRICAL DEMOLITION DRAWING NOTES	CODED DEMOLITION DRAWINGS NOTES
<div>1. ALL GENERAL NOTES INDICATED IN DRAWING E-001 ARE APPLICABLE TO THIS DRAWING. CONTRACTOR IS RESPONSIBLE TO REVIEW THE INDICATED GENERAL NOTES AND ENSURE THAT ALL NOTES ARE FOLLOWED PROPERLY.</div>	<div>1. DISCONNECT AND REMOVE POWER CONNECTION FROM EXISTING ROOF TOP UNIT C/W ALL ASSOCIATED SUPPORTS, WIRING AND CONDUIT BACK TO SOURCE. DEMOLISH ALL ASSOCIATED STARTERS. REMOVE ALL CONTROL WIRING BACK TO SOURCE. MAKE ELECTRICALLY SAFE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO START OF WORK.</div> <div>2. EXISTING CITY OF RICHMOND HILL TRAFFIC SYSTEM CONTROLLER ANTENNA TO REMAIN INTACT, POWERED AND FULLY FUNCTIONAL THROUGH THE WHOLE OF CONSTRUCTION. DETERMINE EXACT LOCATIONS AND CONNECTIONS REQUIREMENTS ON SITE. CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN ANTENNA CONNECTION AND WORKING FUNCTIONALITY AT ALL TIMES. REFER TO DWG 1/E-302 FOR FURTHER DETAILS.</div>

ARCHITECTURE 49

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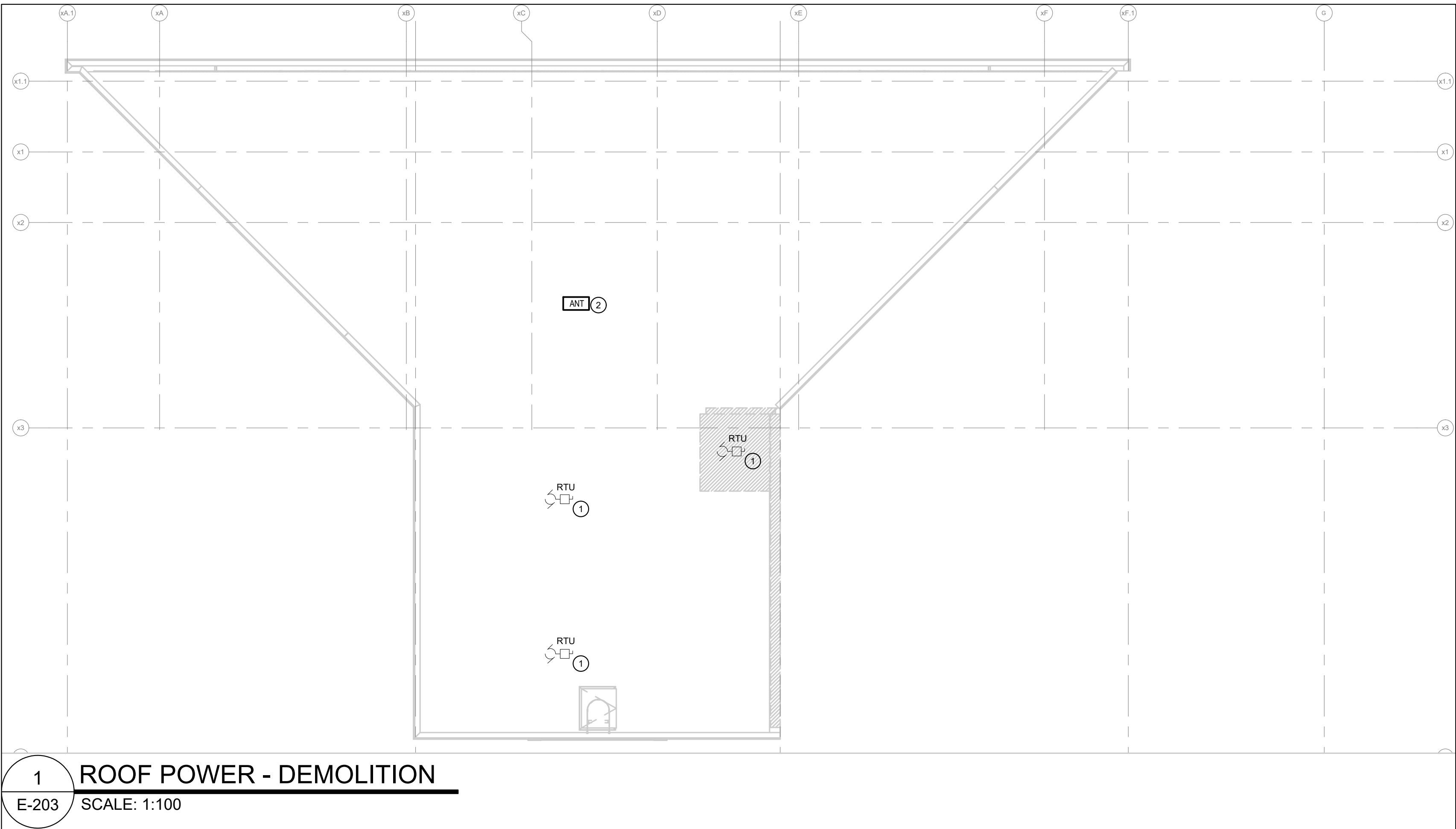
PROJECT NO.: CAD011757-0343 CONTRACT NO:
DRAWN BY: Author CHECKED BY: Checker APPROVED BY: Approve
KEYPLAN:

6.	2025-04-15	ISSUED FOR TENDER
4.	2025-03-27	ISSUED FOR ESA REVIEW
3.	2025-04-17	RE-ISSUED FOR SITE PLAN APPROVAL III
2.	2024-12-20	RE-ISSUED FOR SITE PLAN APPROVAL
1.	2024-05-08	ISSUED FOR SITE PLAN APPROVAL
NO.	DATE	ISSUED

CONNOR BUILDING
RENOVATIONS

DRAWING TITLE

FLOOR PLANS -
DEMOLITION



GENERAL ELECTRICAL DEMOLITION DRAWING NOTES

1. ALL GENERAL NOTES INDICATED IN DRAWING E-001 ARE APPLICABLE TO THIS DRAWING. CONTRACTOR IS RESPONSIBLE TO REVIEW THE INDICATED GENERAL NOTES AND ENSURE THAT ALL NOTES ARE FOLLOWED PROPERLY.

2 CODED DEMOLITION DRAWINGS NOTES

1. DISCONNECT AND REMOVE POWER CONNECTION FROM EXISTING ROOF TOP UNIT C/W ALL ASSOCIATED SUPPORTS, WIRING AND CONDUIT BACK TO SOURCE. DEMOLISH ALL ASSOCIATED STARTERS. REMOVE ALL CONTROL WIRING BACK TO SOURCE. MAKE ELECTRICALLY SAFE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO START OF WORK.
2. EXISTING CITY OF RICHMOND HILL TRAFFIC SYSTEM CONTROLLER ANTENNA TO REMAIN INTACT, POWERED AND FULLY FUNCTIONAL THROUGH THE WHOLE OF CONSTRUCTION. DETERMINE EXACT LOCATIONS AND CONNECTIONS REQUIREMENTS ON SITE. CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN ANTENNA CONNECTION AND WORKING FUNCTIONALITY AT ALL TIMES. REFER TO DWG 1/E-302 FOR FURTHER DETAILS.

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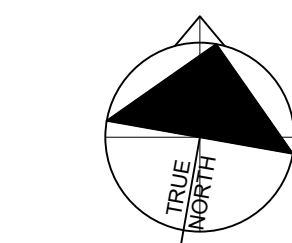
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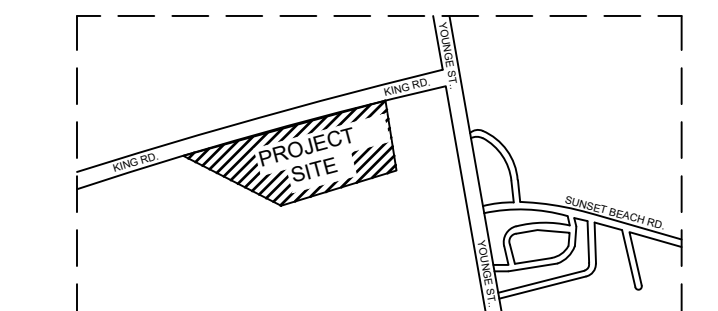
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PROJECT NO.: CAD011757-0343 CONTRACT NO.
DRAWN BY: Author CHECKED BY: Checker APPROVED BY: Approve

KEYPLAN:



6.	2020-04-15	ISSUED FOR TENDER
4.	2020-03-27	ISSUED FOR ESA REVIEW
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1.	2024-05-08	ISSUED FOR SITE PLAN APPROVAL
NO.	DATE	ISSUED

PROJECT

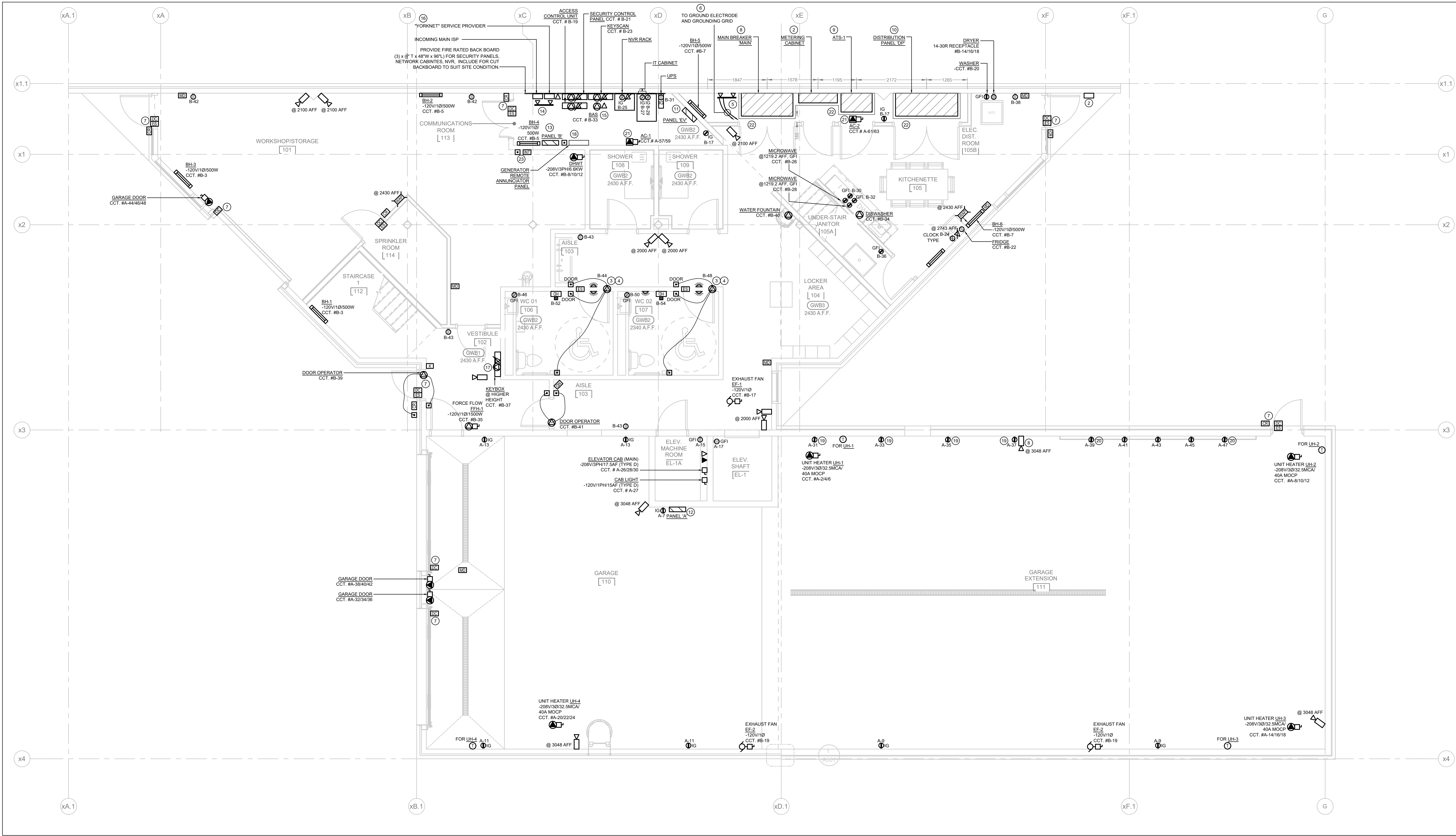
CONNOR BUILDING
RENOVATIONS

DRAWING TITLE

ROOF PLAN -
DEMOLITION

DRAWING NO.

E-203



1 GROUND LEVEL POWER - NEW
E-300 SCALE: 1:50

GENERAL ELECTRICAL DRAWING NOTES

1. ALL GENERAL NOTES INDICATED IN DRAWING E-001 ARE APPLICABLE TO THIS DRAWING. CONTRACTOR IS RESPONSIBLE TO REVIEW THE INDICATED GENERAL NOTES AND ENSURE THAT ALL NOTES ARE FOLLOWED PROPERLY.

CODED POWER DRAWINGS NOTES

1. ELEVATOR MAIN DISCONNECT. DISCONNECT TO BE EQUIPPED WITH AN AUXILIARY CONTACT THAT IS POSITIVELY OPENED MECHANICALLY. THE OPENING NOT BEING SOLELY DEPENDENT ON SPRINGS. PROVIDE A BUILDING GROUND WITH DEDICATED CONDUCTOR WIRED TO THE ELEVATOR CONTROLLER AND SIZED TO APPLICABLE ELECTRICAL CODE. COORDINATE WITH GENERAL CONTRACTOR/ARCHITECT AND MANUFACTURER FOR INSTALLATION DETAILS SUCH AS EXACT LOCATION, MOUNTING DETAILS, CONDUIT STUB UP LOCATION, ETC. AND INCLUDE ALL ASSOCIATED SYSTEM COMPONENTS FOR A COMPLETE INSTALLATION AS PER CODE AND MANUFACTURER'S RECOMMENDATION.
2. ALECTRA UTILITIES METERING. PROVIDE AND INSTALL 1200mm x 1200mm x 300mm (48" x 48" x 12") METERING CABINET. CUSTOMER TO SHALL INSTALL A 32mm (1 1/4") COMMUNICATION CONDUIT AND 300mm x 300mm x 150mm (12" x 12" x 6") NEMA 3R PVC WEATHER PROOF BOX ON OUTSIDE WALL. COMMUNICATION CONDUIT TO TERMINATE IN BACK OF WP BOX. IF CONDUIT WILL BE 30m OR MORE CONTACT ALECTRA FOR FURTHER REQUIREMENTS. INSTALL 10mm (3/8") NYLON PULLING ROPE FROM METER BOX TO BOX ON OUTSIDE WALL. REFER TO ALECTRA UTILITIES STANDARD DETAIL 20-0310. COORDINATE WITH ALECTRA UTILITIES AND CONFIRM EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS ON SITE PRIOR TO INSTALL. (CONTACT BILL LAMPSONA OF "ALECTRA UTILITIES" [EMAIL: bill.lampsona@electrautilities.com](mailto:bill.lampsona@electrautilities.com))
3. PROVIDE EMERGENCY SECURITY CALL SYSTEM FOR ASSISTANCE EQUIPMENT COW DOOR CONTROL, DOOR PUSH BUTTONS, FLASHING STROBE LIGHT, TRANSFORMER AND A CALL BUTTON TO COMPLY THE NEW AODA CODE FOR BARRIER FREE UNIVERSAL WASHROOM. PROVIDE REQUIRED SIGNAGE FOR THE EMERGENCY CALL SYSTEM TO COMPLY THE CODE. SECURITY CALL SYSTEM SHALL BE CALDEN CAT.# CX-WC16FMS AND CX-WEC10 COMPLETE WITH MULTI FUNCTION RELAY, DOOR PUSH BUTTONS, MAGNETIC DOOR CONTACTS, STROBES AND SIGNAGE. REFER TO DWG SE-501 FOR FURTHER DETAILS.
4. COORDINATE WITH THE ARCHITECTURAL DRAWING FOR ALL DIMENSION AND MOUNTING HEIGHTS FOR BARRIER FREE PUSH BUTTONS & LOCK BUTTONS AND SECURITY CALL ASSISTANCE SYSTEM DEVICES.
5. PROVIDE COPPER GROUNDING BUSBAR. BUSBAR SHALL BE INTERCONNECTED AND ALL EQUIPMENT WITH #10 BARE STRANDED COPPER BONDING CABLE. REFER TO DWG. 3E-503 FOR FURTHER DETAILS.

6. PROVIDE GROUNDING CONNECTION TO GROUND ELECTRODE AND REMOTE GROUND. GROUNDING GRID AS REQUIRED BY USING #10 BARE STRANDED COPPER CONDUCTOR. CONFIRM EXACT LOCATIONS, CONNECTIONS AND ROUTING REQUIREMENTS ON SITE PRIOR TO INSTALL.
7. SECURITY COMPONENTS FOR GARAGE DOOR (REFER TO DWG. 9E-502 FOR FURTHER DETAILS). CARD READER DOOR ACCESS (REFER TO DWG. 2E-502 FOR FURTHER DETAILS) AND CARD READER DOOR ACCESS WITH DOOR OPERATOR (REFER TO DWG. 3E-502 FOR FURTHER DETAILS). COORDINATE EXACT LOCATIONS, ROUTING AND CONNECTIONS REQUIREMENTS WITH SECURITY CONTRACTOR PRIOR TO INSTALL.
8. NEW MAIN BREAKER SWITCHBOARD MANY (2000A/120-208V/304W/100KAIC) CONSISTING OF INCOMING WIREWAY SECTION AND MAIN BREAKER SECTION. 1800mm (67") W x 711mm (28") T x 234mm (9 1/2") H (DIMENSIONS BASED ON SIEMENS PRODUCT). BIDDING CONTRACTOR TO ENSURE SELECTED PRODUCT FITS IN ALLOCATED AREA AND MEETS MANUFACTURER'S REQUIRED CLEARANCE. LUGS CONNECTION FOR ATS TO BE FRONT ACCESS ONLY. REFER TO DWG E-100 FOR CONNECTION DETAILS. THIS ATS SHALL BE MOUNTED ON WALL TO SUIT. CONFIRM EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS ON SITE PRIOR TO INSTALL.
9. NEW AUTOMATIC TRANSFER SWITCH (ATS-1) (2000A/120-208V/304W/50KAIC/NEMA 1) 985mm (38") W x 584mm (23") T x 221mm (8 7/8") H (DIMENSIONS BASED ON ASCO PRODUCT). BIDDING CONTRACTOR TO ENSURE SELECTED PRODUCT FITS IN ALLOCATED AREA AND MEETS MANUFACTURER'S REQUIRED CLEARANCE. LUGS CONNECTION FOR ATS TO BE FRONT ACCESS ONLY. REFER TO DWG E-100 FOR CONNECTION DETAILS. THIS ATS SHALL BE MOUNTED ON WALL TO SUIT. CONFIRM EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS ON SITE PRIOR TO INSTALL.
10. NEW MAIN ELECTRICAL DISTRIBUTION PANEL "DP" (2000A/1750A/1120-208V/304W/100KAIC). 1930mm (76") W x 711mm (28") T x 234mm (9 1/2") H (DIMENSIONS BASED ON SIEMENS PRODUCT). BIDDING CONTRACTOR TO ENSURE SELECTED PRODUCT FITS IN ALLOCATED AREA AND MEETS MANUFACTURER'S REQUIRED CLEARANCE. DISTRIBUTION PANEL "DP" TO CONSIST OF INCOMING WIREWAY SECTION AND BREAKER SECTION. REFER TO DWG E-100 FOR CONNECTION DETAILS. CONFIRM EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS ON SITE PRIOR TO INSTALL.
11. NEW PANEL "EV" (600A/208V/304W/20KAIC/72 CTT). 508mm (20") W x 146mm (6") T x 172mm (6 7/8") H (DIMENSIONS BASED ON SIEMENS PRODUCT). REFER TO DWG E-100 FOR CONNECTION DETAILS. CONFIRM EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS ON SITE PRIOR TO INSTALL.
12. NEW PANEL "A" (400A/208V/304W/20KAIC/84 CTT). 508mm (20") W x 146mm (6") T x 2032mm (80") H (DIMENSIONS BASED ON SIEMENS PRODUCT). REFER TO DWG E-100 FOR CONNECTION DETAILS. CONFIRM EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS ON SITE PRIOR TO INSTALL.
13. NEW PANEL "B" (400A/208V/304W/20KAIC/84 CTT). 508mm (20") W x 146mm (6") T x 2032mm (80") H (DIMENSIONS BASED ON SIEMENS PRODUCT). REFER TO DWG E-100 FOR CONNECTION DETAILS. CONFIRM EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS ON SITE PRIOR TO INSTALL.
14. PROVIDE NEW COMMUNICATIONS GROUND BAR. REFER TO DWGS. 1E-502 AND 4E-502 FOR FURTHER DETAILS. CONFIRM EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS WITH GENERATOR MANUFACTURER ON SITE PRIOR TO INSTALL.
15. BAS CONTROLS. PROVIDE POWER FOR CONTROLLER. ELECTRICAL CONTRACTOR TO ENSURE COORDINATION WITH MECHANICAL TRADES AND BAS CONTRACTOR TO CAPTURE REQUIREMENT FOR FUNCTIONALITY OF SHUNT TRIP BREAKER FOR PANEL EV. THIS BREAKER SHALL BE CONNECTED/CONTROLLED BY THE BAS SYSTEM SO THAT IN THE EVENT OF MAIN POWER LOSS AND TRANSFER OVER TO GENERATOR POWER THIS BREAKER SHALL TRIP OPEN (ESSENTIALLY SHED THIS PANEL LOAD WHEN THE ATS IS SWITCHED TO GENERATOR POWER). ELECTRICAL CONTRACTOR TO PROVIDE ALL ASSOCIATED WIRING AND REQUIRED RELAYS TO CONNECT TO BAS. COORDINATE EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS WITH BAS CONTRACTOR PRIOR TO INSTALL. "CONTRACTOR TO PROVIDE SPECIAL SITE PROCEDURE INSTRUCTION TO RE-ENGAGE BREAKER UPON RETURN TO NORMAL POWER. PROVIDE DIRECTION ON PERMANENT LAMACOD LABEL FOR THIS BREAKER COMPARTMENT AND INFORM/TRAIN STAFF TO BE MADE AWARE OF OPERATION AND PROCEDURE PRIOR TO COMPLETION OF JOB."
16. CONTRACTOR TO ARRANGE WITH OWNER/CITY OF RICHMOND HILL REPRESENTATIVE FOR CITY FOR "YORKNET" COMMUNICATIONS NETWORK AND SERVICE. COORDINATE EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS ON SITE PRIOR TO INSTALL.
17. KEYBOX. PROVIDE POWER AND DATA CONNECTION AS SHOWN. CONTRACTOR TO ARRANGE WITH OWNER/CITY OF RICHMOND HILL REPRESENTATIVE FOR KEY BOX EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS ON SITE PRIOR TO INSTALL.
18. GENERATOR ANNUNCIATOR PANEL AND EMERGENCY POWER OFF PUSH BUTTON. CONFIRM EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS ON SITE PRIOR TO INSTALL. REFER TO DWG. E-100 FOR CONNECTION DETAILS. CONFIRM EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS WITH GENERATOR MANUFACTURER ON SITE PRIOR TO INSTALL.

19. CHARGING RECEPTACLES FOR ELECTRICAL LAWN MOWER EQUIPMENT. RECEPTACLES AND BREAKERS SIZING SHOWN FOR CONCEPTUAL AND PRICING PURPOSES. CONTRACTOR TO CONFIRM WITH OWNER/CITY REPRESENTATIVE ON FINAL ELECTRICAL REQUIREMENTS BASED ON MAKE OF MOWER AND MANUFACTURER'S DATA SHEETS. CONFIRM EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS WITH GENERATOR MANUFACTURER ON SITE PRIOR TO INSTALL.
20. RECEPTACLES ON PLYWOOD BACKBOARD FOR HAND TOOLS. COORDINATE EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS ON SITE PRIOR TO INSTALL. (TYPICAL)
21. INDOOR UNIT SPLIT SYSTEM AC UNIT. INDOOR UNIT SHALL BE POWERED FROM OUTDOOR CONDENSING UNIT ON ROOF. PROVIDE POWER WIRING AND CONDUIT FROM INDOOR UNIT "AC" TO NEW SPLIT SYSTEM OUTDOOR UNIT "CUA". CIRCUIT AS SHOWN. PROVIDE CONTROLS WIRING BETWEEN INDOOR UNIT "AC" AND OUTDOOR UNIT "CUA" AS REQUIRED. PROVIDE REQUIRED WIRING, CONDUITS (LIQUID TIGHT, VAPOR PROOF FOR EXTERIOR), AND SUPPORTS. PROVIDE REQUIRED FIRE STOPPING ON ALL PENETRATIONS. COORDINATE EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS ON SITE WITH MECHANICAL TRADES PRIOR TO INSTALL. REFER TO DWG 1E-302 FOR FURTHER DETAILS.
22. PROVIDE CONCRETE PAD FOR ELECTRICAL DISTRIBUTION EQUIPMENT. PAD SIZING AND REQUIREMENTS TO BE COORDINATED WITH GENERAL CONTRACTOR AND ARCHITECTURAL DRAWINGS.
23. INTERCOM AND GATE RELEASE FOR BI-FOLD GATE DRIVE-WAY ACCESS. COORDINATE EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS ON SITE WITH GATE VENDOR/CONTRACTOR PRIOR TO INSTALL.

CONSULTANT - STRUCTURAL



CONSULTANT - ELECTRICAL



CONSULTANT - MECHANICAL



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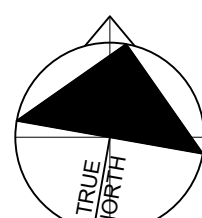
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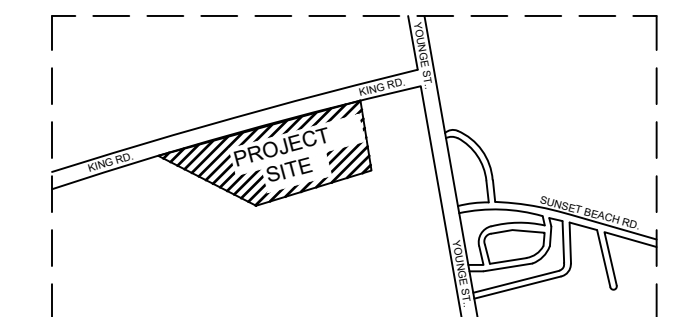
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PROJECT NO.: CAD011757 0343 CONTRACT NO.

DRAWN BY: Author CHECKED BY: Checker APPROVED BY: Approve

KEYPLAN:



6.	2020-04-15	ISSUED FOR TENDER
4.	2020-03-27	ISSUED FOR ESA REVIEW
3.	2020-04-17	RE-ISSUED FOR SITE PLAN APPROVAL III
2.	2024-12-20	RE-ISSUED FOR SITE PLAN APPROVAL
1.	2024-05-08	ISSUED FOR SITE PLAN APPROVAL
NO.	DATE	ISSUED

PROJECT

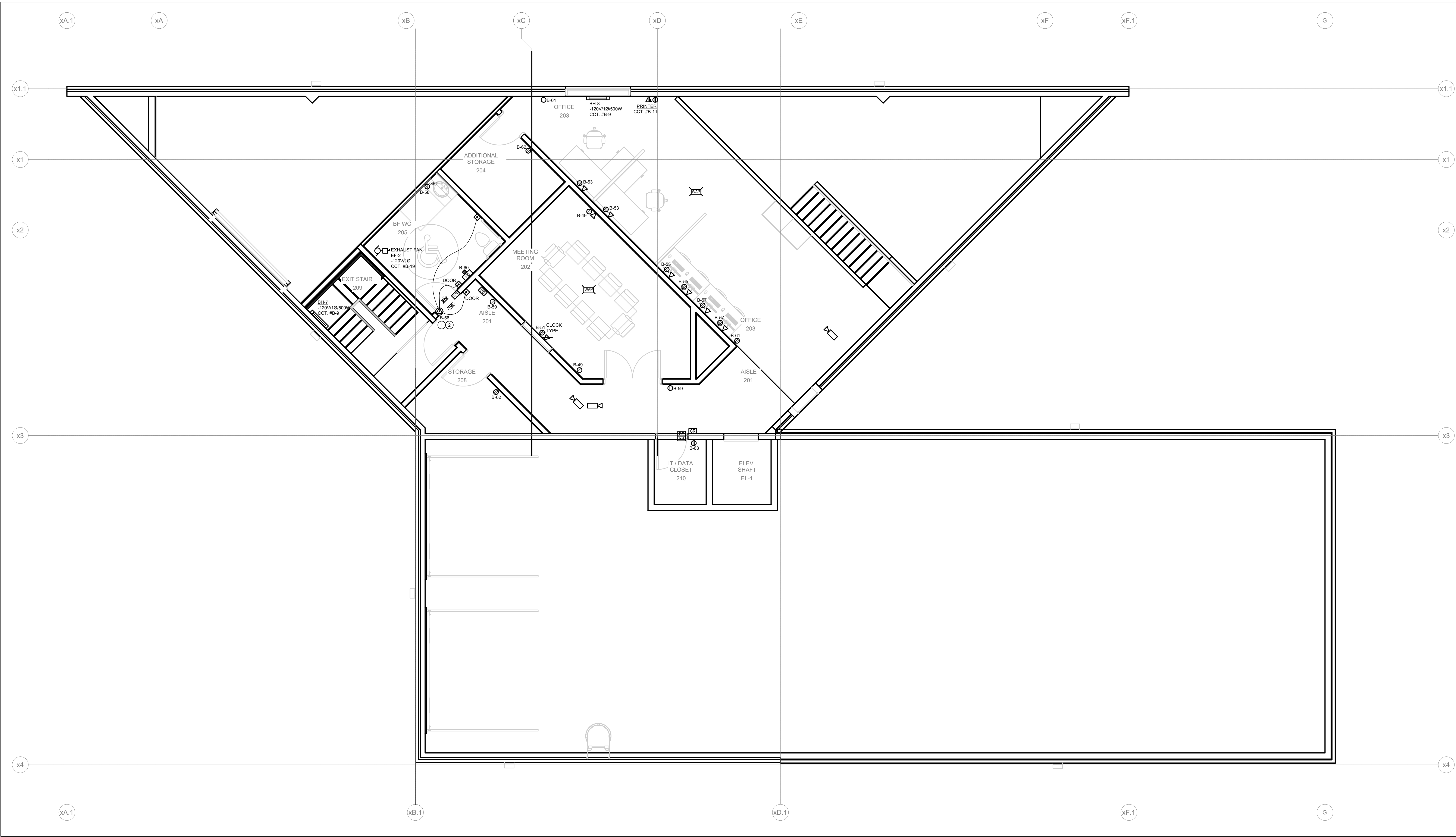
CONNOR BUILDING RENOVATIONS

DRAWING TITLE

GROUND LEVEL POWER - NEW WORK

DRAWING NO.

E-300



1 SECOND LEVEL POWER - NEW
E-301 SCALE: 1:50

GENERAL ELECTRICAL POWER DRAWING NOTES

1. ALL GENERAL NOTES INDICATED IN DRAWING E-001 ARE APPLICABLE TO THIS DRAWING. CONTRACTOR IS RESPONSIBLE TO REVIEW THE INDICATED GENERAL NOTES AND ENSURE THAT ALL NOTES ARE FOLLOWED PROPERLY.

① CODED POWER DRAWINGS NOTES

1. PROVIDE EMERGENCY SECURITY CALL SYSTEM FOR ASSISTANCE EQUIPMENT C/W DOOR CONTROL, DOOR PUSH BUTTONS, LOCK BUTTONS, FLASHING STROBE LIGHT, TRANSFORMER AND A CALL BUTTON TO COMPLY THE NEW AODA CODE FOR BARRIER FREE UNIVERSAL WASHROOM. PROVIDE REQUIRED SIGNAGE FOR THE EMERGENCY CALL SYSTEM TO COMPLY THE CODE. SECURITY CALL SYSTEM SHALL BE CAMDEN CAT # CX-WC16FMPMS AND CX-WEC10 COMPLETE WITH MULTI FUNCTION RELAY, DOOR PUSH BUTTONS, MAGNETIC DOOR CONTACTS, STROBES AND SIGNAGE. REFER TO DWG 5/E-501 FOR FURTHER DETAILS.
2. COORDINATE WITH THE ARCHITECTURAL DRAWING FOR ALL DIMENSION AND MOUNTING HEIGHTS FOR BARRIER FREE PUSH BUTTONS & LOCK BUTTONS AND SECURITY CALL ASSISTANCE SYSTEM DEVICES.

CONSULTANT - STRUCTURAL



CONSULTANT - ELECTRICAL



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CITY FILE No.: SP-24-0009

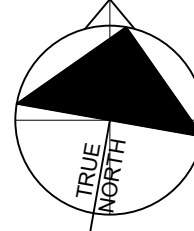
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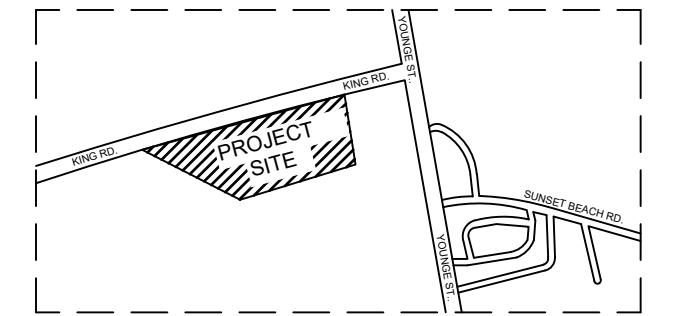
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PROJECT NO.: CAD011757-0343 CONTRACT NO.
DRAWN BY: Author CHECKED BY: Checker APPROVED BY: Approve

KEYPLAN:



6.	2025-04-15	ISSUED FOR TENDER
4.	2025-03-27	ISSUED FOR ESA REVIEW
3.	2025-04-17	RE-ISSUED FOR SITE PLAN APPROVAL III
2.	2024-12-20	RE-ISSUED FOR SITE PLAN APPROVAL
1.	2024-05-08	ISSUED FOR SITE PLAN APPROVAL
NO.	DATE	ISSUED

PROJECT

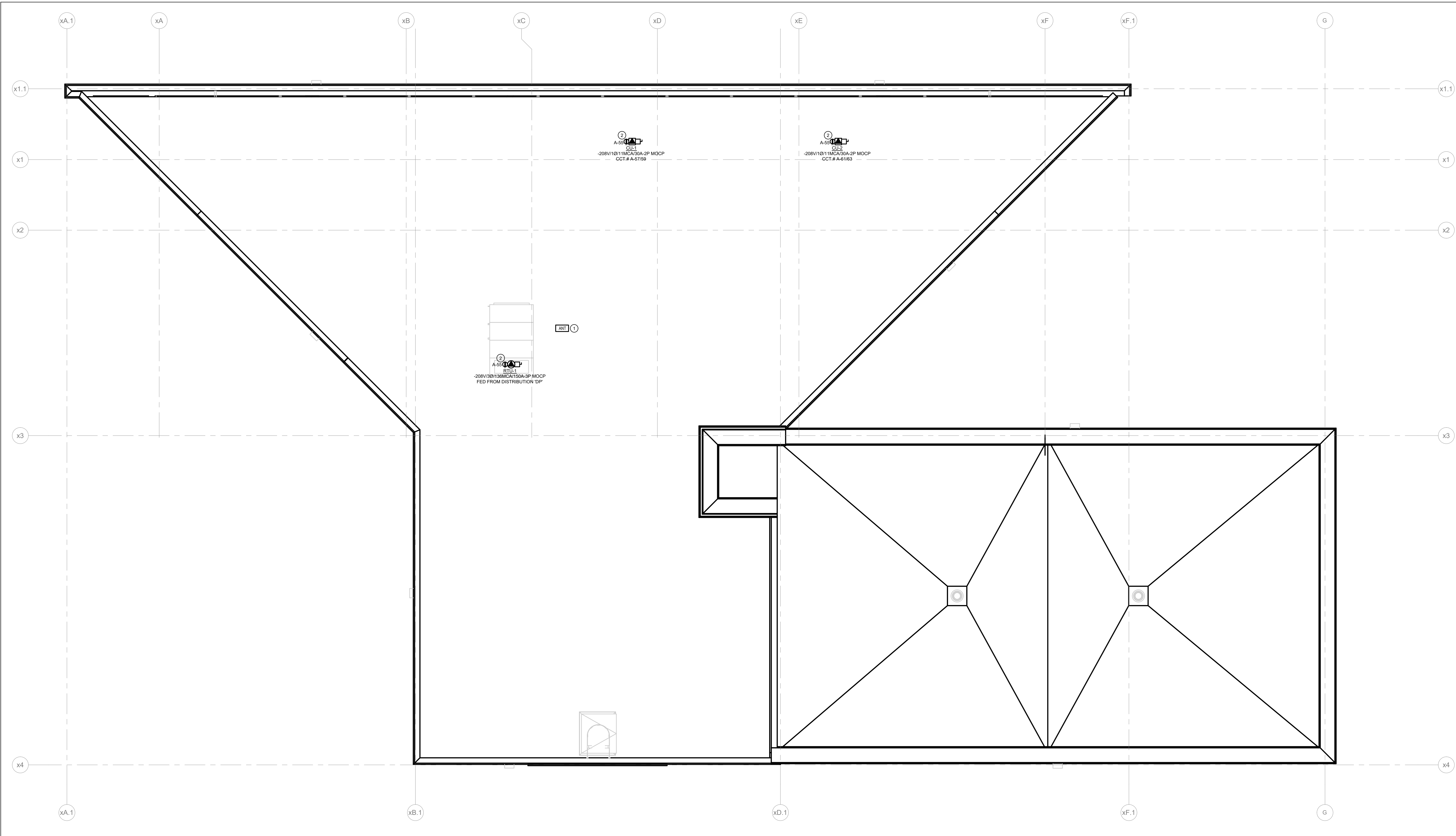
CONNOR BUILDING
RENOVATIONS

DRAWING TITLE

SECOND LEVEL POWER -
NEW WORK

DRAWING NO.

E-301



1 ROOF LEVEL POWER - NEW
E-302 SCALE: 1:50

GENERAL ELECTRICAL POWER DRAWING NOTES

1. ALL GENERAL NOTES INDICATED IN DRAWING E-001 ARE APPLICABLE TO THIS DRAWING. CONTRACTOR IS RESPONSIBLE TO REVIEW THE INDICATED GENERAL NOTES AND ENSURE THAT ALL NOTES ARE FOLLOWED PROPERLY.

CODED POWER DRAWINGS NOTES

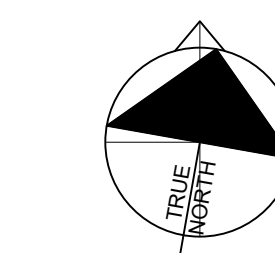
1. EXISTING CITY OF RICHMOND HILL TRAFFIC SYSTEM CONTROLLER ANTENNA TO REMAIN INTACT, POWERED AND FULLY FUNCTIONAL THROUGH THE WHOLE OF CONSTRUCTION. DETERMINE EXACT LOCATIONS AND CONNECTIONS REQUIREMENTS ON SITE. CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN ANTENNA CONNECTION AND WORKING FUNCTIONALITY AT ALL TIMES AND IS TO ENSURE THAT ONCE CONSTRUCTION IS COMPLETE, THIS ANTENNA IS POWERED FROM THE BUILDING'S NEW POWER AND COMMUNICATIONS DISTRIBUTION SYSTEMS.
2. PROVIDE AND INSTALL UNIT MOUNTED GFI MAINTENANCE RECEPTACLE WITH EQUIPMENT. PROVIDE WIRING AND CONDUIT AS REQUIRED. COORDINATE WITH MANUFACTURER AND DETERMINE EXACT LOCATIONS AND ROUTING ON SITE.
 - CLASS A TYPE - 5-20R W/P GFI
 - MIN. 750mm ABOVE FINISHED ROOF
 - PROTECTED FROM MECHANICAL DAMAGE
 - COVER PLATES SUITABLE FOR WET LOCATIONS
 - MARKED "EXTRA DUTY"
3. OUTDOOR CONDENSING UNIT "CU-1" FOR SPLIT AC SYSTEM. INDOOR UNIT SHALL BE POWERED FROM THIS OUTDOOR CONDENSING. PROVIDE POWER WIRING AND CONDUIT. CIRCUIT AS SHOWN. PROVIDE CONTROL'S WIRING BETWEEN INDOOR UNIT "AC-1" AND OUTDOOR UNIT "CU-1" AS REQUIRED. PROVIDE REQUIRED WIRING, CONDUITS (LIQUID TIGHT, VAPOR PROOF FOR EXTERIOR), AND SUPPORTS. PROVIDE REQUIRED FIRE STOPPING ON ALL PENETRATIONS. COORDINATE EXACT LOCATIONS, ROUTING AND CONNECTION REQUIREMENTS ON SITE WITH MECHANICAL TRADES PRIOR TO INSTALL.



**NOT FOR
CONSTRUCTION**

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CORRECT SCALE. DO NOT SCALE DRAWINGS.

NORTH ARROW:

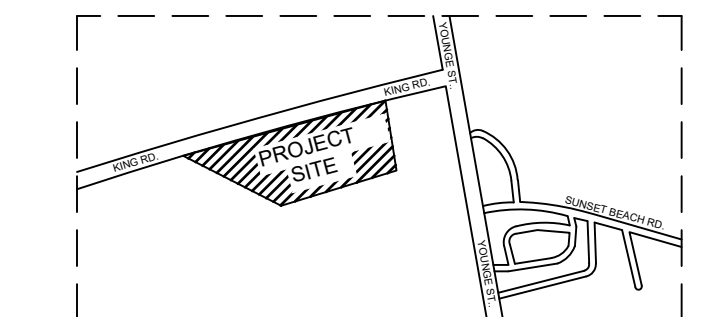


DIGITAL REFERENCE:

PROJECT NO.: CAD011757-0343 CONTRACT NO.

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NO.	DATE	ISSUED

PROJECT

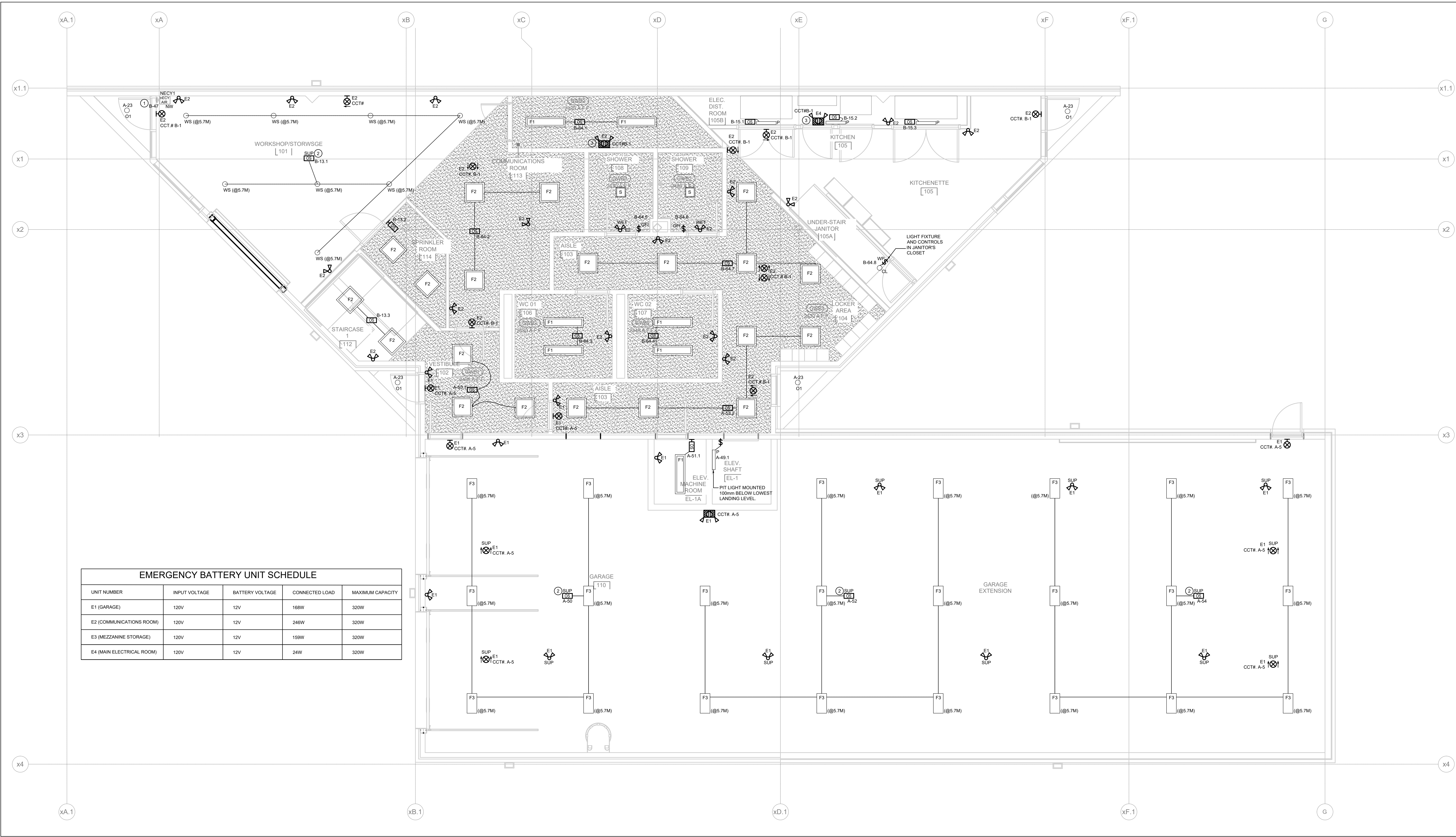
**CONNOR BUILDING
RENOVATIONS**

DRAWING TITLE

**ROOF LEVEL POWER -
NEW WORK**

DRAWING NO.

E-302



1
E-400
GROUND LEVEL LIGHTING - NEW
SCALE: 1:50

GENERAL ELECTRICAL LIGHTING DRAWING NOTES	CODED LIGHTING DRAWINGS NOTES
<p>1. ALL GENERAL NOTES INDICATED IN DRAWING E-001 ARE APPLICABLE TO THIS DRAWING. CONTRACTOR IS RESPONSIBLE TO REVIEW THE INDICATED GENERAL NOTES AND ENSURE THAT ALL NOTES ARE FOLLOWED PROPERLY.</p>	<p>1. "NIGHT ECLYPSE" EXTERIOR LIGHTING CONTROLLER, FOR DEMONSTRATION, PROGRAMMING AND TRAINING OF SYSTEM, CONTACT "EDWIN MOK OF "ACUTY BRANDS" <EDWIN.MOK@ACUTYBRANDS.COM, CELL #416-460-7517></p> <p>2. OCCUPANCY SENSOR TO BE SUSPENDED AT THE SAME HEIGHT AS THE LIGHT FIXTURES IN THE CORRESPONDING AREA. SUSPENDED FROM JUNCTION BOX CONNECTED TO THREADED CONDUIT. ENSURE DROP IS ADEQUATELY FASTENED AND SECURED.</p> <p>3. CONNECT EMERGENCY LIGHTING FIXTURES AND NEW BATTERY UNIT TO 120V AND 240C CIRCUITS AS SHOWN. CONNECT THE REMOTE EMERGENCY FIXTURES TO BATTERY UNIT WITH #10 AWG COPPER WIRE MINIMUM. PROVIDE LARGER GAUGE TO MAINTAIN THE 5% MAXIMUM VOLTAGE DROP AS PER ELECTRICAL SAFETY CODE AND AS RECOMMENDED BY THE MANUFACTURER. EACH BATTERY UNIT TO BE COMPLETE WITH A MINIMUM OF 4 CIRCUITS OR TERMINAL BLOCKS WITH SEPARATE FUSES. CONNECT REMOTE FIXTURES TO TERMINAL BLOCKS AS INDICATED BY THE CIRCUIT NUMBER PROVIDE A COMPLETE TESTING OF SYSTEM AND MEASUREMENT OF LIGHT LEVELS TO OBTAIN LOCAL INSPECTION APPROVALS AND PERMITS. A MANUFACTURER'S AUTHORIZED TECHNICIAN SHALL PREPARE AND PROVIDE A SIGNED TEST REPORT VERIFYING THAT THE SYSTEM IS PROPERLY WORKING AND THAT LIGHT LEVELS MEET LOCAL CODE REQUIREMENTS. INCLUDE REQUIRED TEST MEASUREMENTS IN REPORT, AND SUBMIT TO CONSULTANT. ALL COST SHALL BE INCLUDED IN THIS CONTRACT. ALL BATTERY UNIT AND SURFACE MOUNTED EMERGENCY REMOTE HEAD SHALL BE INSTALLED AT 2743.2M (9'-0") AFF UNLESS OTHERWISE NOTED.</p>

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25mm

NORTH ARROW:

DIGITAL REFERENCE:

PROJECT NO.: CAD011757-0343 CONTRACT NO.

DRAWN BY: Author CHECKED BY: Checker APPROVED BY: Approve

KEYPLAN:



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1.	2024-05-08	ISSUED FOR SITE PLAN APPROVAL
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PROJECT

CONNOR BUILDING RENOVATIONS

DRAWING TITLE

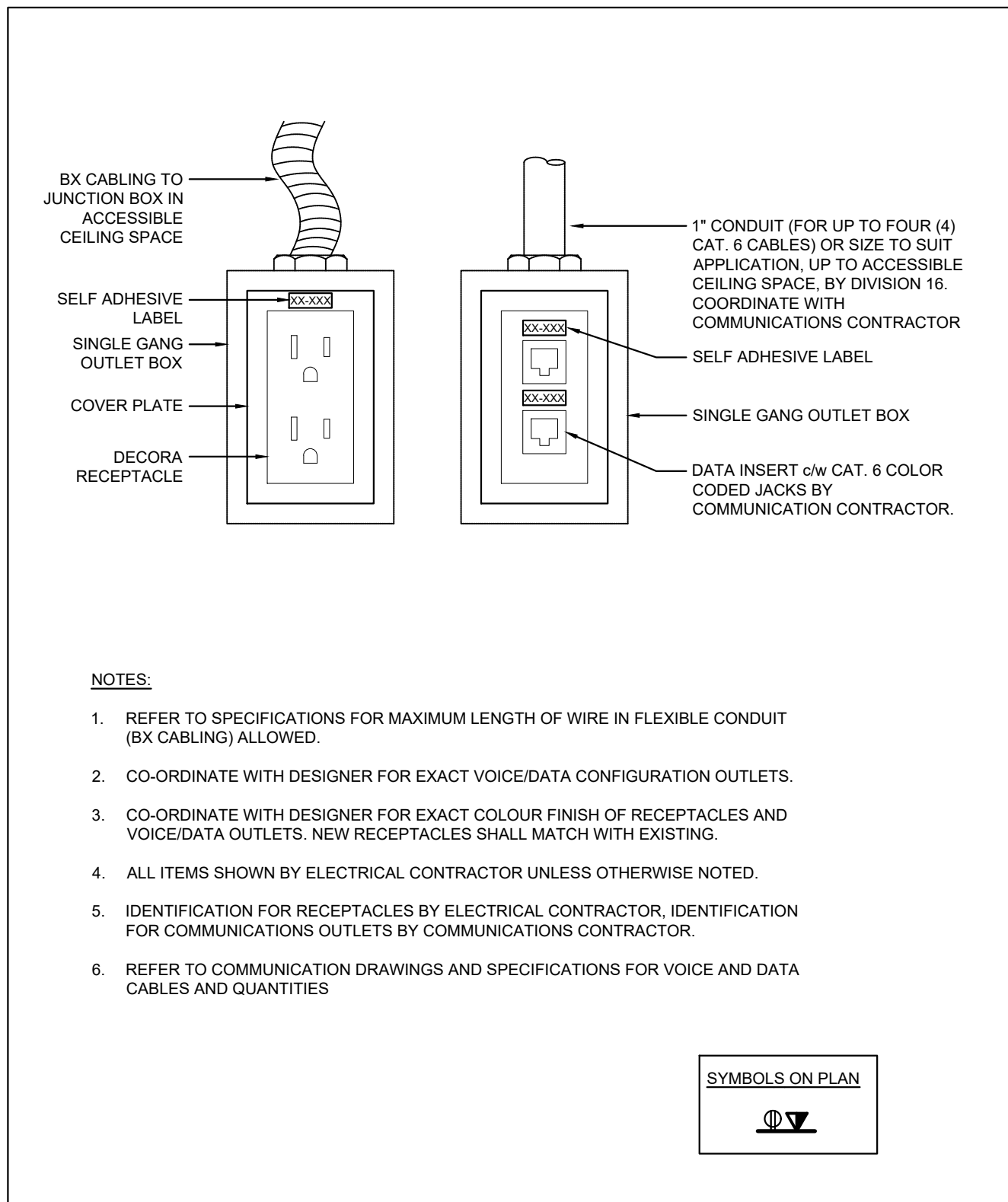
GROUND LEVEL LIGHTING - NEW WORK

DRAWING NO. E-400

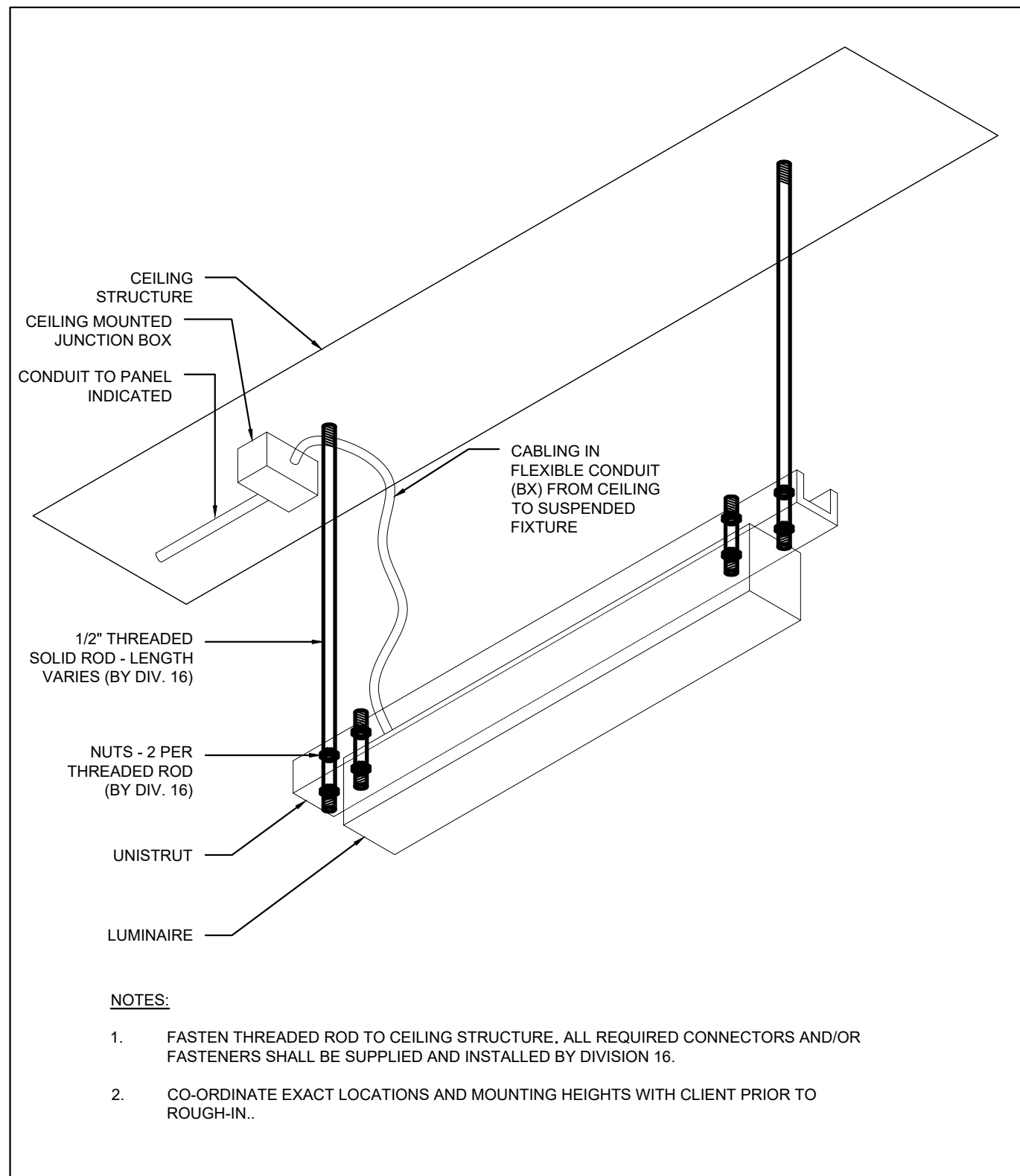


1. CONNECT EMERGENCY LIGHTING FIXTURES AND NEW BATTERY UNIT TO 120V AND 240C CIRCUITS AS SHOWN. CONNECT THE REMOTE EMERGENCY FIXTURES TO BATTERY WITH #10 AWG COPPER WIRE MINIMUM. PROVIDE LARGER GAUGE TO MAINTAIN THE 9% MAXIMUM VOLTAGE DROP AS PER NEC REQUIREMENTS. ALL ELECTRICAL CONNECTIONS SHALL BE MADE IN MANUFACTURER. EACH BATTERY UNIT TO BE COMPLETE WITH A MINIMUM OF CIRCUITS OR TERMINAL BLOCKS WITH SEPARATE FUSES. CONNECT REMOTE FIXTURES TO TERMINAL BLOCKS INDICATED BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. VERIFY VOLTAGE AND MEASUREMENT OF LIGHT LEVELS TO OBTAIN LOCAL INSPECTION APPROVALS AND PERMITS. MAKE MANUFACTURERS AUTHORIZED TECHNICIAN SHALL PREPARE AND PROVIDE A REPORT OF REMOTE EMERGENCY LIGHTING SYSTEM PERFORMANCE. REMOTE EMERGENCY LIGHT LEVELS MEET LOCAL CODE REQUIREMENTS. INCLUDE REQUIRED TEST MEASUREMENTS IN REPORT, AND SUBMIT TO CONSULTANT. ALL COST SHALL BE INCLUDED IN THIS CONTRACT. ALL REMOTE EMERGENCY LIGHTING AND REMOTE EMERGENCY REMOTE HEAD SHALL BE INSTALLED 2743.2M (9'0") AFF UNLESS OTHERWISE NOTED.

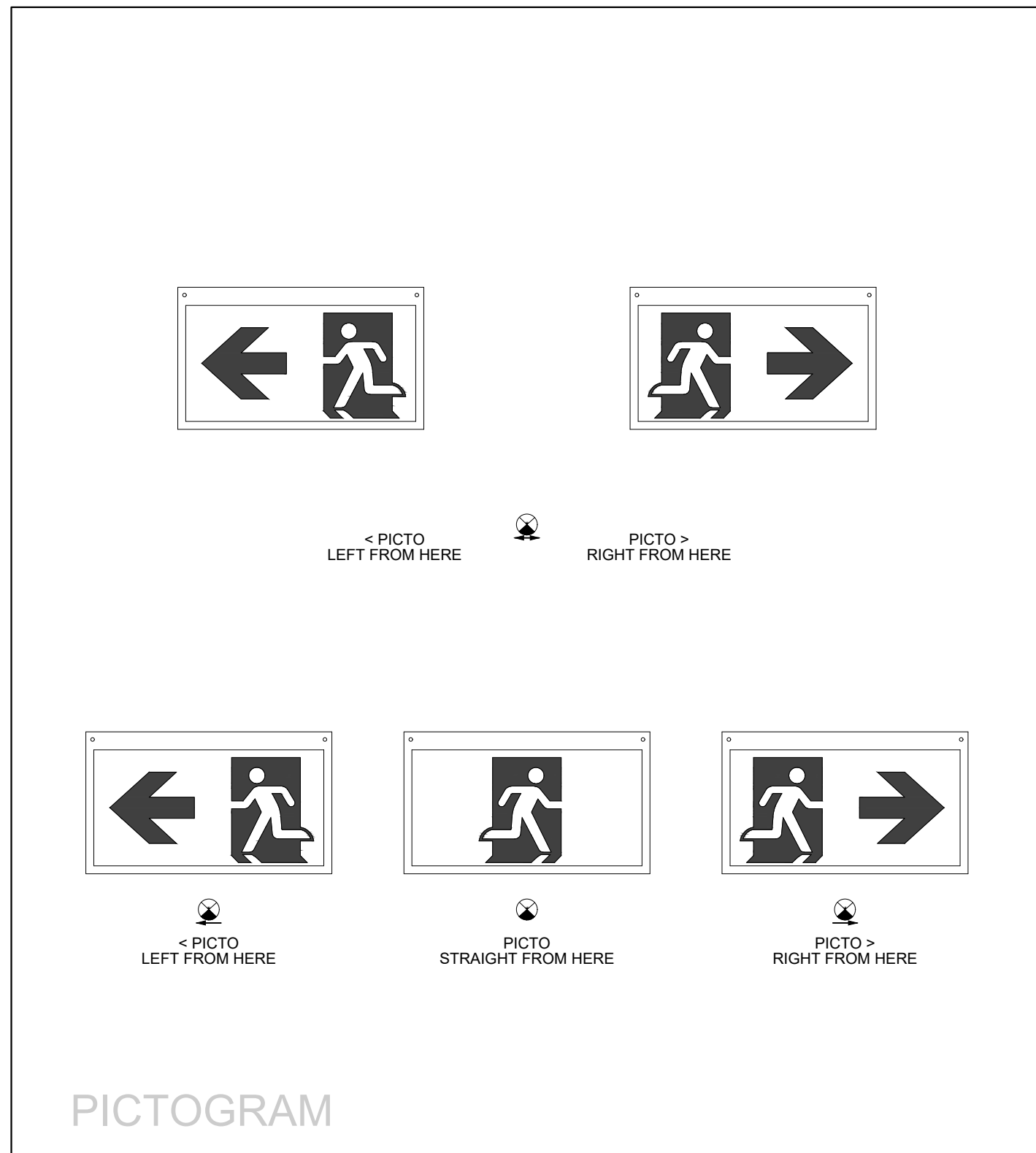
E-401



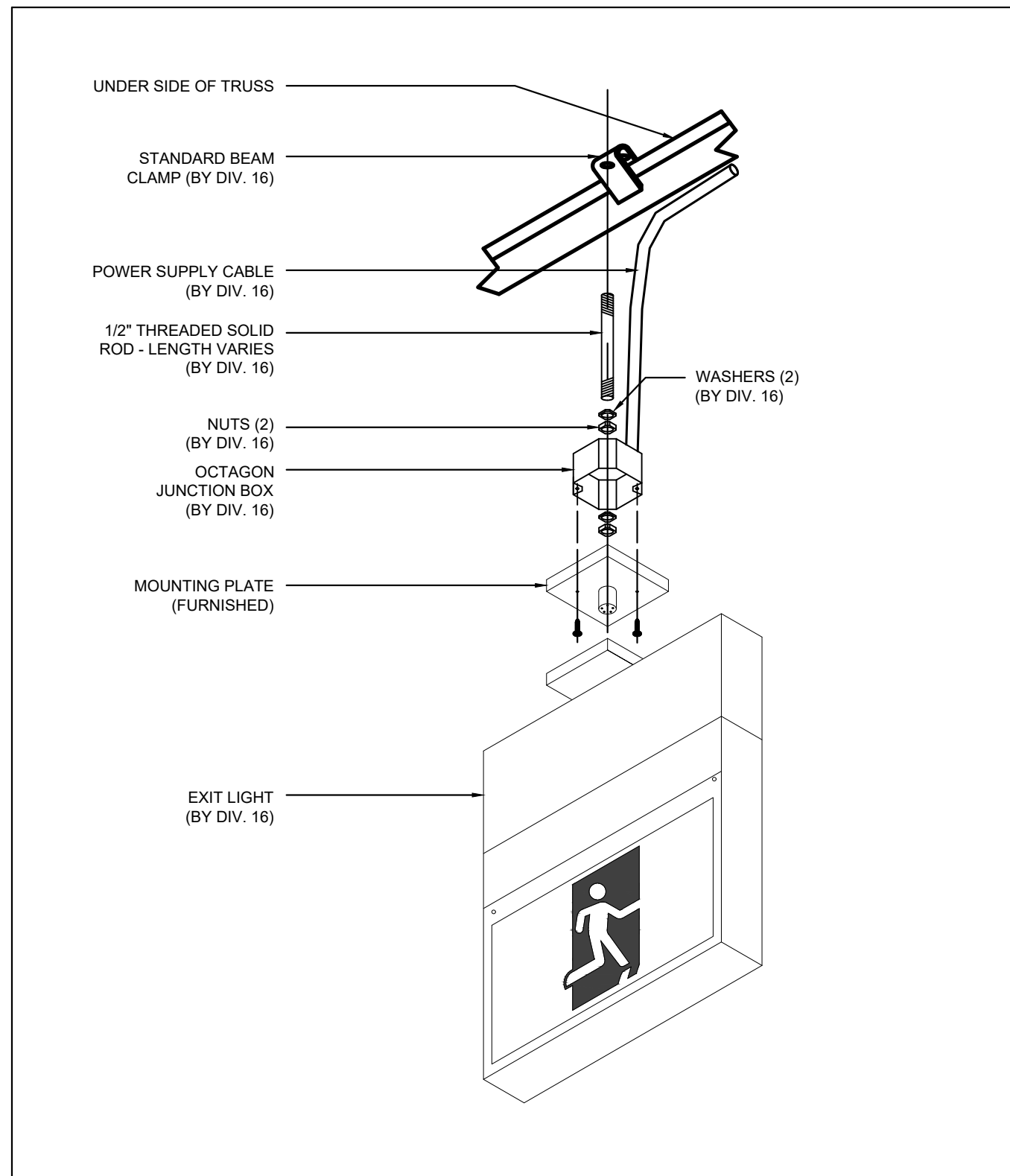
4
E-501
TYPICAL WALL MOUNTED POWER/DATA OUTLETS
SCALE: NTS



3
E-501
SUSPENDED LUMINAIRE DETAIL
SCALE: NTS



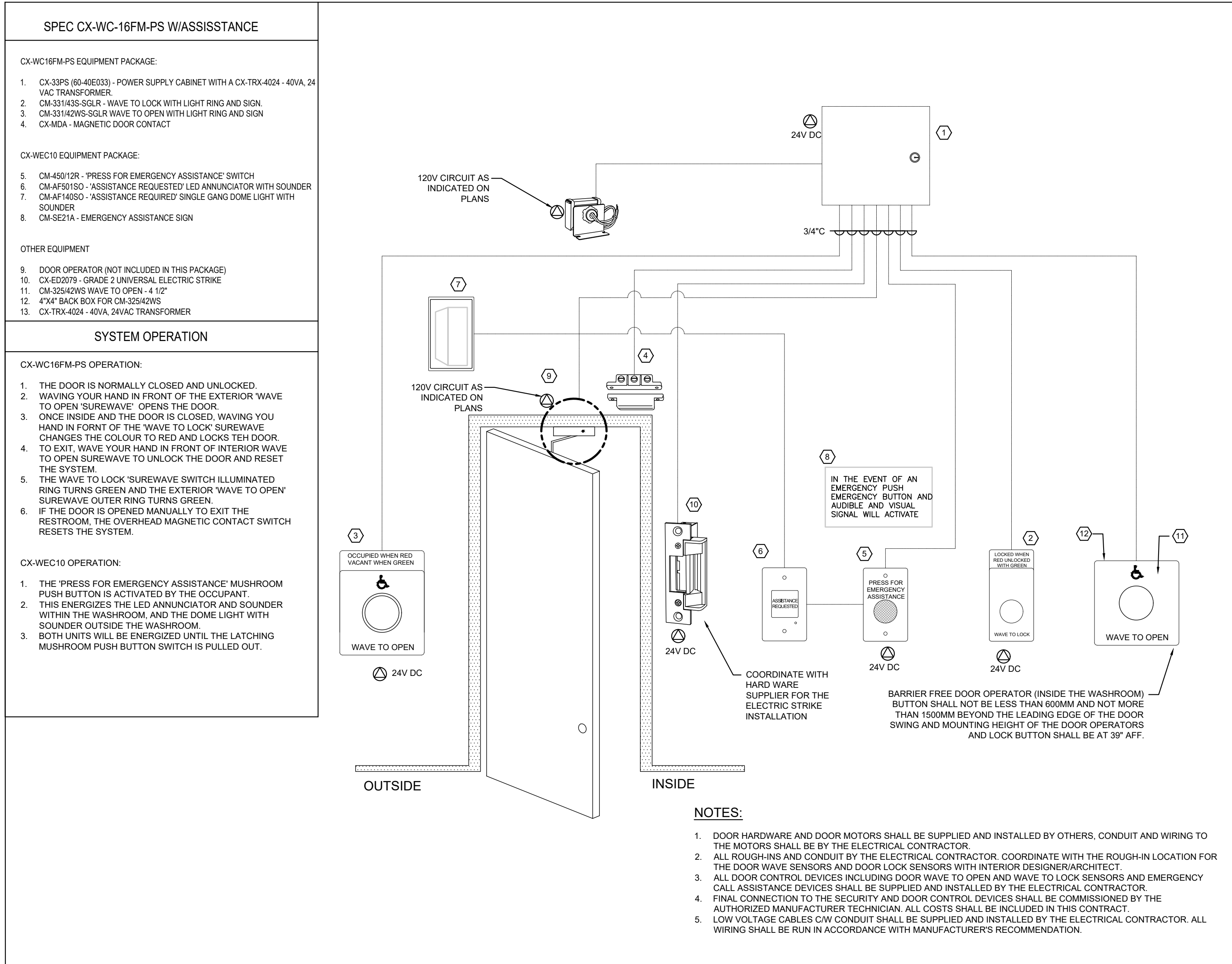
2
E-501
PICTOGRAM EXIT SIGN DETAIL
SCALE: NTS



1
E-501
PENDANT MOUNT EXIT SIGN FOR HIGH/OPEN CEILING (WITH OWSJ)
SCALE: NTS

SCHEDULE OF LUMINAIRES AND CONTROLS					
SYMBOL AND LABEL	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	WATTAGE	DISTRIBUTION ("IES DISTRIBUTION")
	LITHONIA LIGHTING	WJGE2 LED-P0-30K-80CRI-TFTM-MVOLT-PBBW-NLTAR2 PIRH-DOBXD	ARCHITECTURAL WALL SCONCE W/ PRECISION REFRACTIVE OPTIC, WJGE2 LED WITH P0 - PERFORMANCE PACKAGE, 120V, 3000K, 80CRI, TYPE FORWARD THROW MEDIUM OPTIC.	7W	TYPE IV, SHORT, BUG RATING: B0 - U0 - G0
	LITHONIA LIGHTING	WJGE2 LED-P0-30K-80CRI-T1S-MVOLT-PBBW-NLTAR2 PIRH-DOBXD	ARCHITECTURAL WALL SCONCE W/ PRECISION REFRACTIVE OPTIC, WJGE2 LED WITH P0 - PERFORMANCE PACKAGE, 120V 3000K, 80CRI, TYPE 1 SHORT OPTIC	7W	TYPE I, SHORT, BUG RATING: B0 - U0 - G0
	LITHONIA LIGHTING	DSX1 LED-P3-30K-80CRI-TFTM-MVOLT-SPA-NLTAR2 PIRH-NHS-DOBXD	LED AREA POLE LIGHT, D-SERIES SIZE 1 AREA LUMINAIRE P3 PERFORMANCE PACKAGE 3000K CCT, 80CRI, FORWARD THROW HOUSESIDE SHIELD	104W	TYPE IV, SHORT, BUG RATING: B2 - U0 - G4
	LITHONIA LIGHTING	DSX1 LED-P2-30K-80CRI-T2M-MVOLT-SPA-NLTAR2 PIRH-NHS-DOBXD	LED AREA POLE LIGHT, D-SERIES SIZE 1 AREA LUMINAIRE P2 PERFORMANCE PACKAGE 3000K CCT, 80 CRI, TYPE 2 MEDIUM HOUSESIDE SHIELD	68W	TYPE III, MEDIUM, BUG RATING: B2 - U2 - G3
	LITHONIA LIGHTING	ONY LED ALD A0 SWW2 1 VOLT PIR DOB 30K 5000L	CANOPY LUMINAIRE ADJUSTABLE SWITCHABLE PHOTOCELL OCCUPANCY SENSOR, ONY LED, 120V, 3000K, 5000L	34W	TYPE VS, CUTOFF, BUG RATING: B2 - U2 - G1
	JUNO LIGHTING	WFS-SWW5-90CRI-MB-19W-3000K-120V	8"Ø RECESSED MOUNTED, WAFER-THIN, LED DOWN LIGHT 19W, 120V, 3000K, 90 CRI, MATTE BLACK,	19W	
	GOTHAM EVO	EV05SC-401-40-AR-LSS-WD-MVOLT GZ10-JBX-IP66-DOB	6"Ø SURFACED CEILING CYLINDER LED DOWN LIGHT 4000 LUMENS, 120V, 4000K, WIDE SPREAD, CLEAR TRIM, SEMI-SPECULAR, 0-10V INTEGRAL DRIVER, GLOSS DARK BRONZE	39W	
	JUNO LIGHTING	WFS A020 SWW5 90CRI M6-M6-P0-1300LUMENS-19W-4000K-120V-4W	6"Ø WAFER-THIN, LED DOWN LIGHT 19W, 1300 LUMENS, 120V, 4000K, 90 CRI, MATTE WHITE,	16W	UNDER STAIR
	LITHONIA LIGHTING	CPANL 1X4 AL01 SSW17 M4-4400-40-MVOLT-DCMK14	12"X48" SURFACE MOUNTED LED FLAT PANEL LOW PROFILE, LOW GLARE UNIFORM, 4400 LUMENS, 120V, 4000K, 80 CRI	38.7W	
	LITHONIA LIGHTING	CPANL 2X3 AL01 SSW17 M4-4400-40-MVOLT-DCMK224	24"X24" SURFACE MOUNTED LED FLAT PANEL LOW PROFILE, LOW GLARE UNIFORM, 4400 LUMENS, 120V, 4000K, 80 CRI	38.8W	
	LITHONIA LIGHTING	RG-15000LM-SEF-PTL-WD-MVOLT-GZ10-40K-80CRI-DWH-NLTAR2 RMS0045-BAC120 M100	GARAGE EXTENSION: 12"X24" SUSPEND MOUNTED POLYCARBONATE LENS, LED 15,000 LUMENS, 120V, 4000K, 80 CRI, 0-10V DIMMING, GLOSS WHITE FINISH	95W	
	LITHONIA LIGHTING BLT SERIES LED	2BLT4-72L-ADP-GZ10-LP84-WH-IP5X	24"X48" RECESSED MOUNTED, LOW PROFILE LED LUMINAIRE, WITH CENTER BASKET, 1200 LUMENS, 120V, 4000K, 82 CRI, 0-10V DIMMING	60W	
	HOLOPHANE	EMS-L24-2000LM-LPPFL-MD-MVOLT-GZ10-40K-80CRI	24" LONG LOW PROFILE ENCLOSED GASKETED INDUSTRIAL STRIP, 2000 LUMENS, POLYCARBONATE, LOW PROFILE, FROSTED LENS, MEDIUM, 120V, 4000K, 80 CRI	13.8W	ELEVATOR PIT
	INTEGER LIGHTS PRIME	RPA-3-18L-40-UNV-ID45-S-NC-SFD 3SFD-CL-W-W-4W	3" APERTURE LED DOWNLIGHT, 1800 LUMENS, 120V, SQUARE FLANGED DOWNLIGHT, WHITE FINISHED, SUITABLE FOR WET LOCATION	30W	
	LUMACELL	RG12S-360-2-LD15-TMBD-LTS	12 VOLT, 30 MINUTE OPERATION, OPERATION ON 120V SINGLE PHASE, PLUG-IN TYPE, LIGHT ACTIVATED TEST SWITCH, FULLY ADJUSTABLE LIGHTING HEADS COW 6 WATT LED, 591 LUMENS, MR16 LED, SEALED LEAD BATTERY (10 YEARS), SOLID STATE CHARGER, TEMPERATURE COMPENSATION, SEALED TRANSFER SWITCH, LOW VOLTAGE DISCONNECT, BROWN OUT PROTECTION, BATTERY LOCKOUT CIRCUIT, DC TERMINAL BLOCK, DUAL DIAGNOSTIC INDICATOR LIGHT, WHITE POLYESTER PAINT.		
	LUMACELL	MQM-2-LD10	SURFACE ADJUSTABLE REMOTE DOUBLE HEADS, BATTERY OPERATED EMERGENCY LIGHT FIXTURE, 12 VOLT, 0 WATT LED, 591 LUMENS MR16 LAMP PER HEAD, CONNECT TO NEW BATTERY UNIT AS SHOWN		
	LUMACELL	MQM2PNV-LD10-SM	POLYCARBONATE WET RATED REMOTE DOUBLE HEADS, BATTERY OPERATED EMERGENCY LIGHT FIXTURE, 12 VOLT, 6 WATT LED, 591 LUMENS MR16 LAMP PER HEAD, CONNECT TO NEW BATTERY UNIT AS SHOWN		
	LUMACELL	LA SERIES LA-12-W-U	120 VOLT AT AND 12 VOLT DC SURFACE MOUNTED LED, DIE-CAST ALUMINUM PICTOGRAM EXIT SIGN (RUNNING MAN), SINGLE AND DOUBLE AS NOTED ON DRAWING, UNIVERSAL POWER INPUT, CONNECT TO BATTERY UNIT AND 120V CIRCUIT AS SHOWN.		
	LUMACELL		SAME AS ABOVE BUT "SUP" DENOTES SUSPEND MOUNTED PROVIDE MOUNTING KIT AS REQUIRED.		
	LUMACELL	LA SERIES WALL MOUNTED LA-1-W-U	120 VOLT AT AND 12 VOLT DC WALL MOUNTED LED, DIE-CAST ALUMINUM PICTOGRAM EXIT SIGN (RUNNING MAN), SINGLE AND DOUBLE AS NOTED ON DRAWING, UNIVERSAL POWER INPUT, CONNECT TO BATTERY UNIT AND 120V CIRCUIT AS SHOWN.		
	SENSORSWITCH	WSX-PDT-D-WH	WALL MOUNTED LINE VOLTAGE OCCUPANCY SENSOR LIGHT SWITCH ON/OFF AND 0-10V VDC DIMMING SET TIME AFTER 15 MIN, WHITE FINISHED		
	SENSORSWITCH	CMR-6	CEILING MOUNTED LINE VOLTAGE OCCUPANCY SENSOR LIGHT SWITCH SET TIME, AFTER 15 MIN, IVORY FINISHED OCCUPANCY SENSOR.		
	ILIGHT ECLYPSE	NECY MVOLT ENC NW AIR	ILIGHT ECLYPSE, 120-277V, NO WFI, AIR ENCLOSURE FOR OUTDOOR LIGHTING CONTROLS.		
CONTACT 'EDWIN MOK' OF 'ACUITY BRANDS' <EDWIN.MOK@ACUITYBRANDS.COM, CELL #416-460-7517> FOR SELECTION OF LIGHTING FIXTURES (NON-EMERGENCY) AND LIGHTING CONTROLS (DEMONSTRATION AND TRAINING OF LIGHTING CONTROLS FOR CONTRACTOR AND STAFF)					
THIS COLOUR SELECTABLE FIXTURE MUST REMAIN SET AT 3000K TO COMPLY WITH THE LIGHT POLLUTION BY-LAW AND TO CONFORM TO APPROVED DRAWINGS AS PER SITE PLAN AGREEMENT					

5
E-501
UNIVERSAL WASHROOM EMERGENCY CALL ASSISTANCE AND DOOR CONTROL DETAIL
SCALE: NTS



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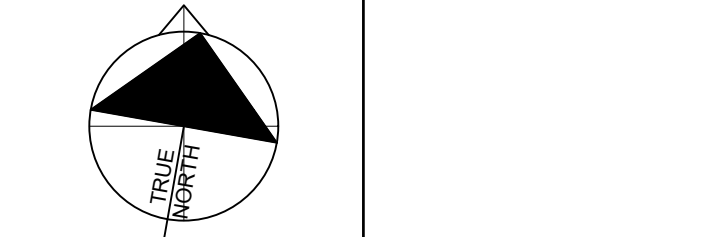
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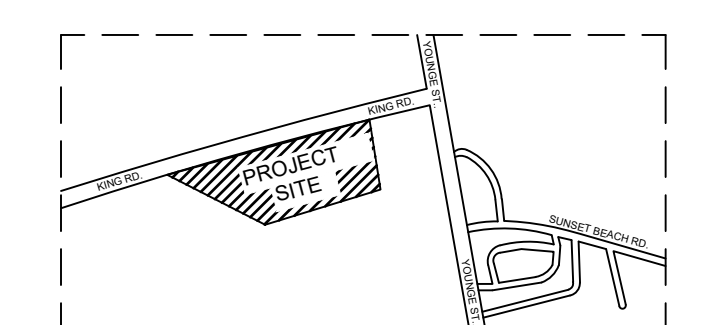
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PROJECT NO.: CAD011757-0343 CONTRACT NO:
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KEYPLAN:

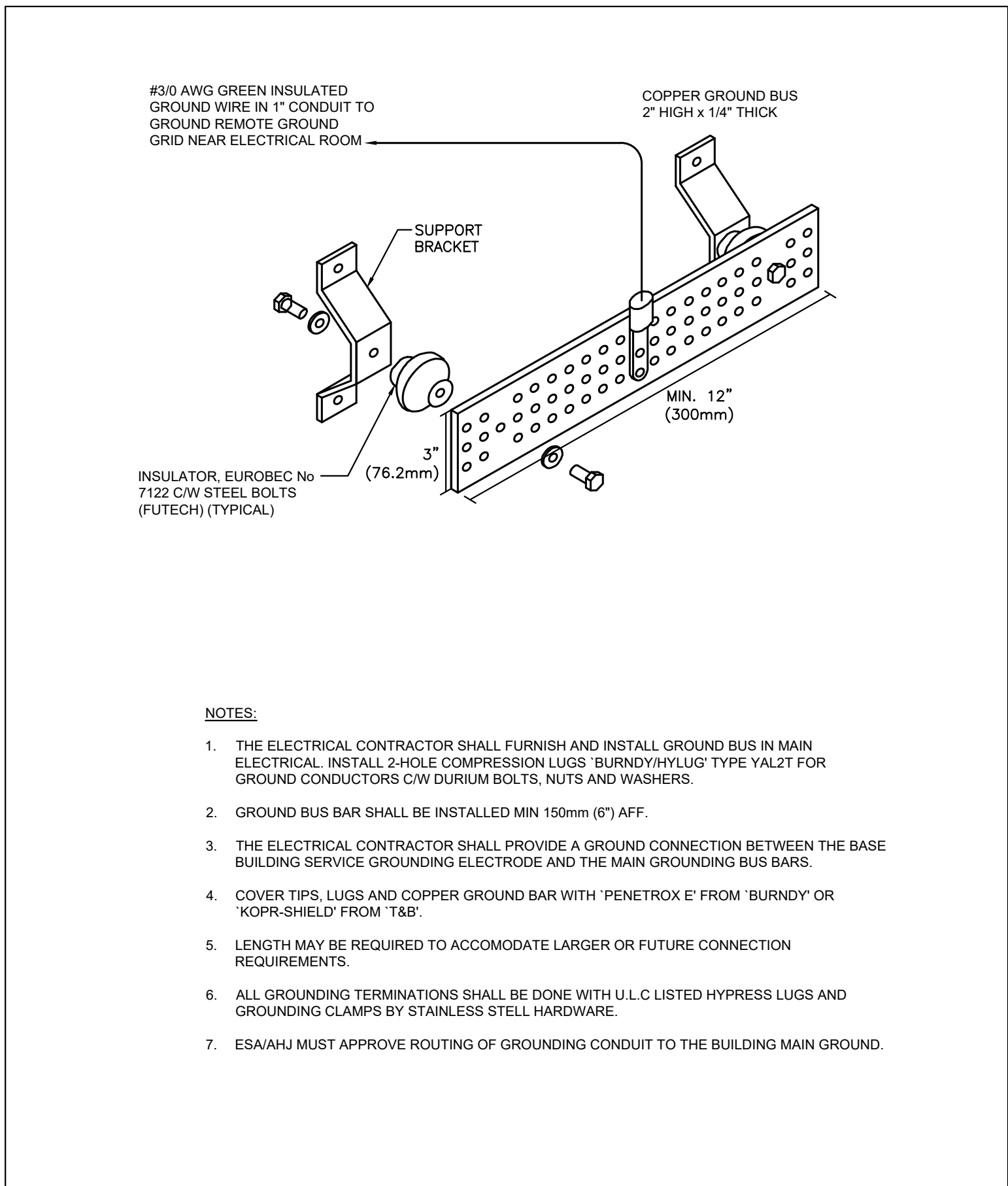


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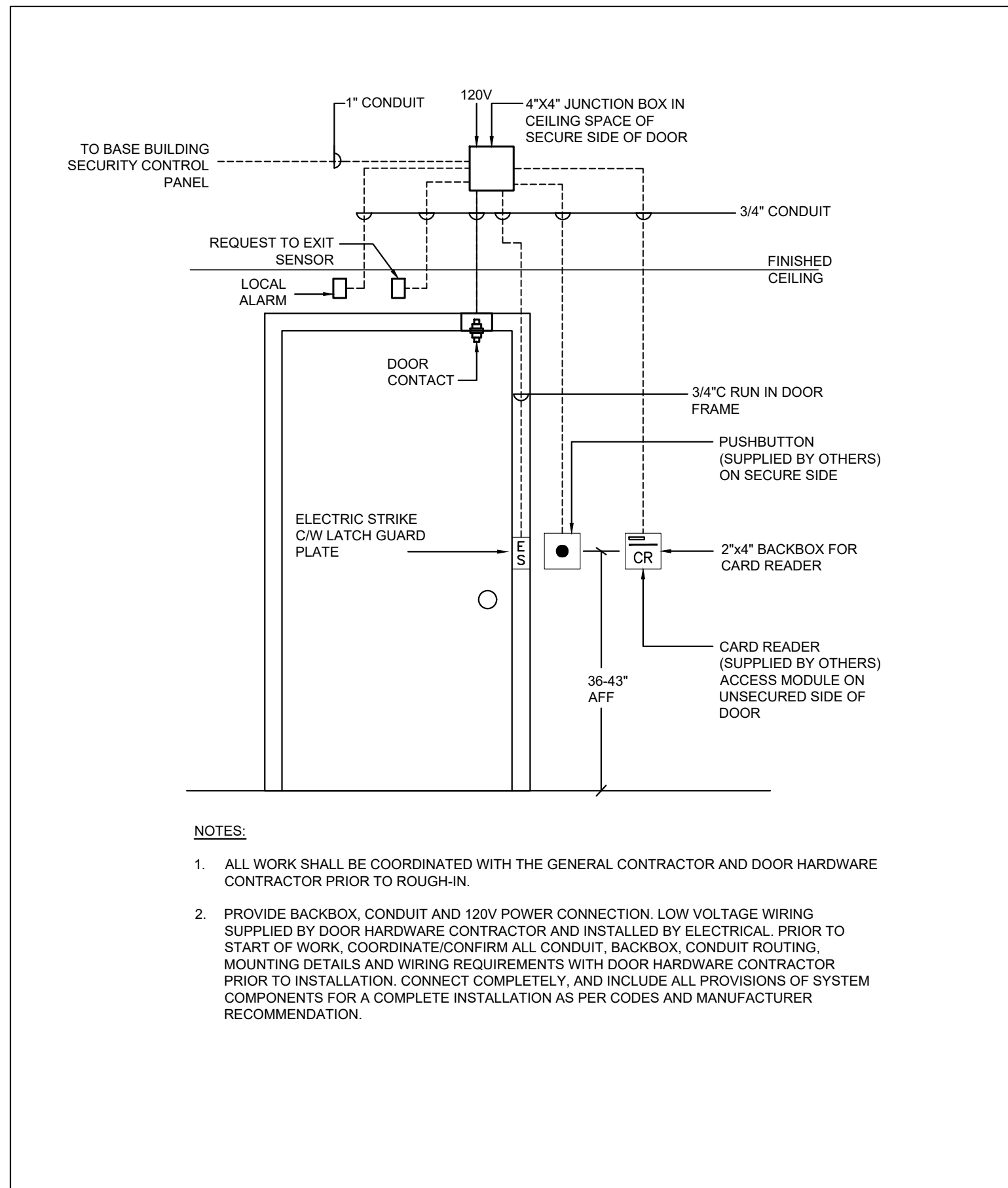
CONNOR BUILDING RENOVATIONS

DRAWING TITLE

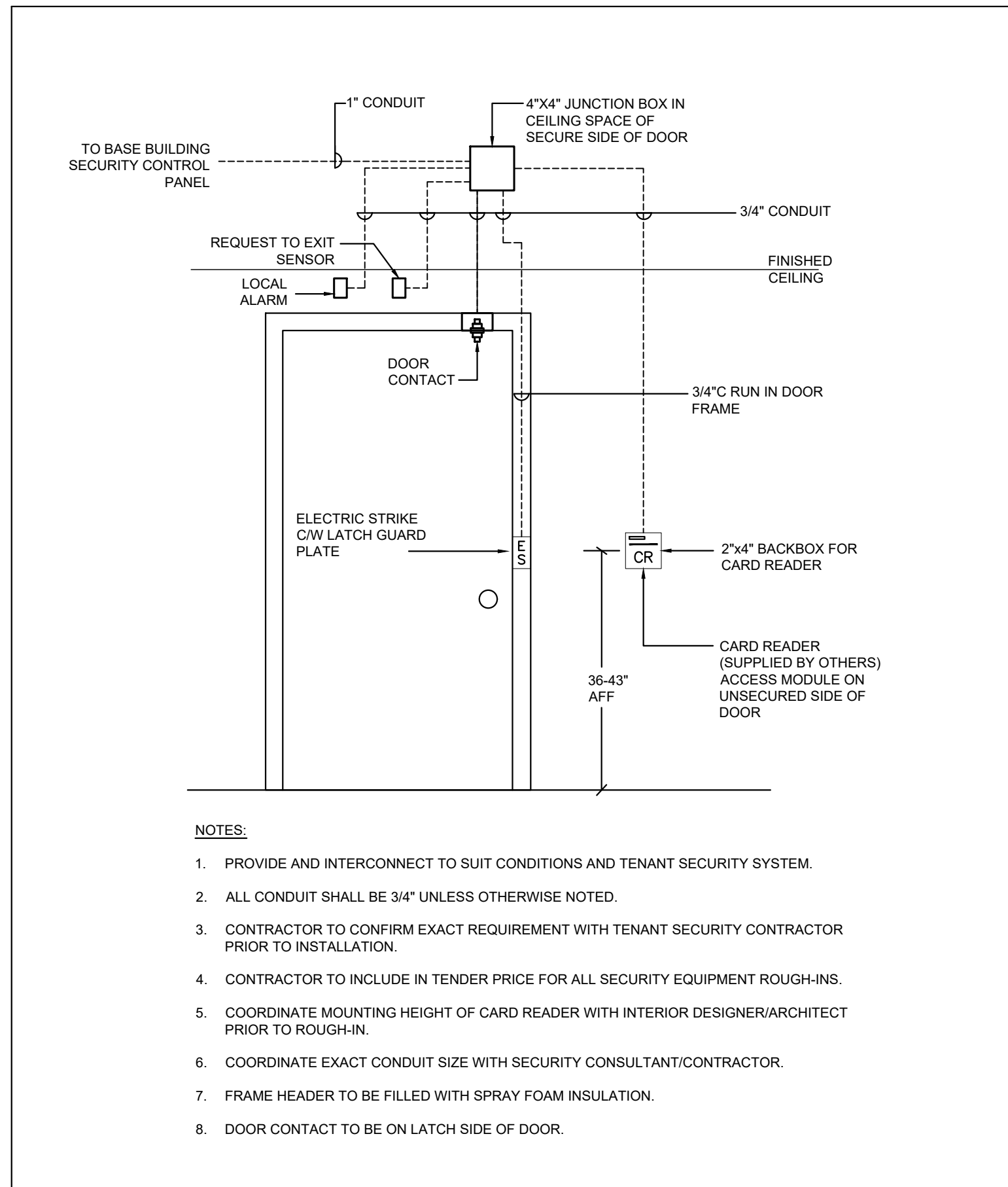
DETAILS



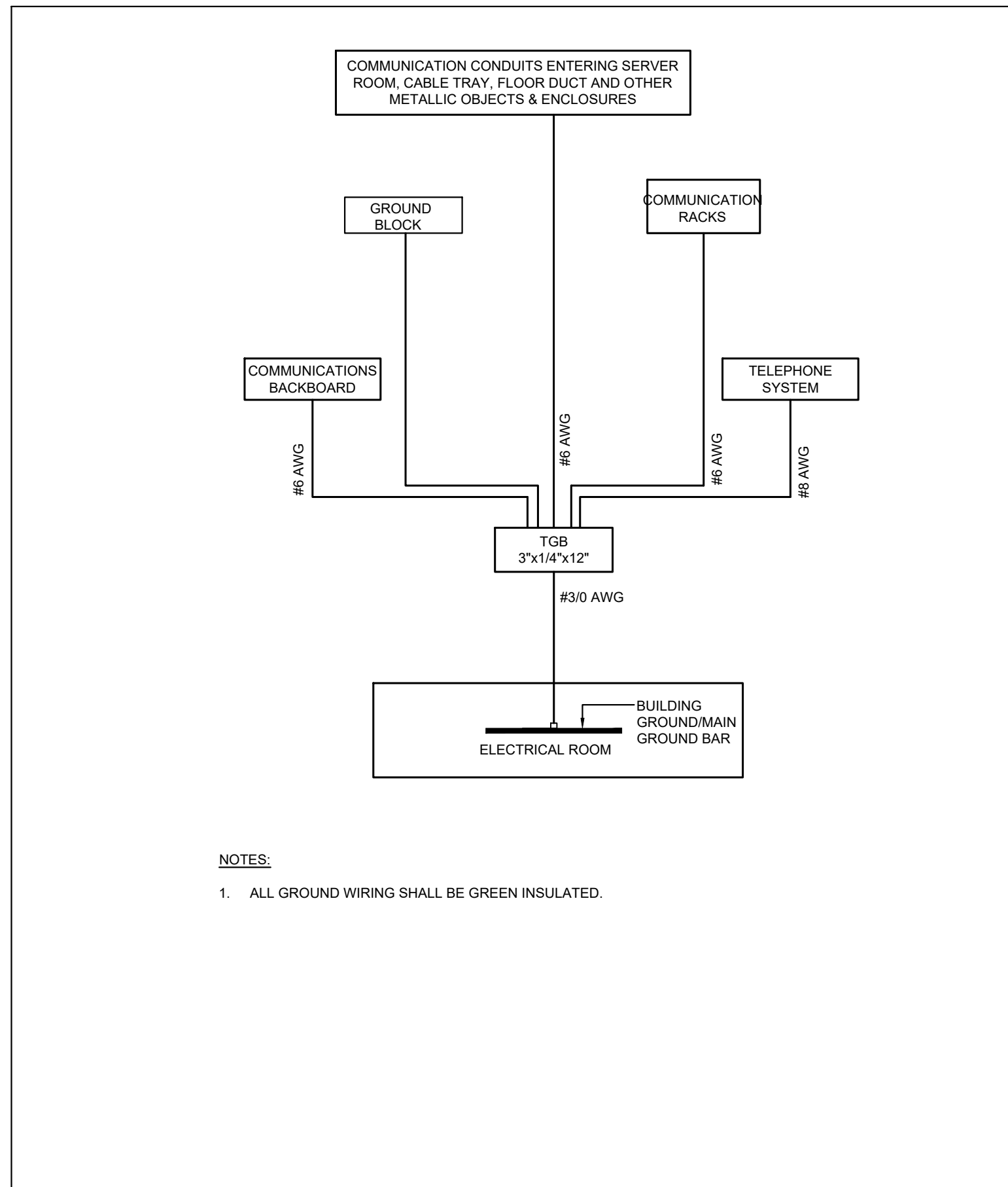
4 COMMS ROOM GROUND BUS BAR DETAIL
SCALE: NTS



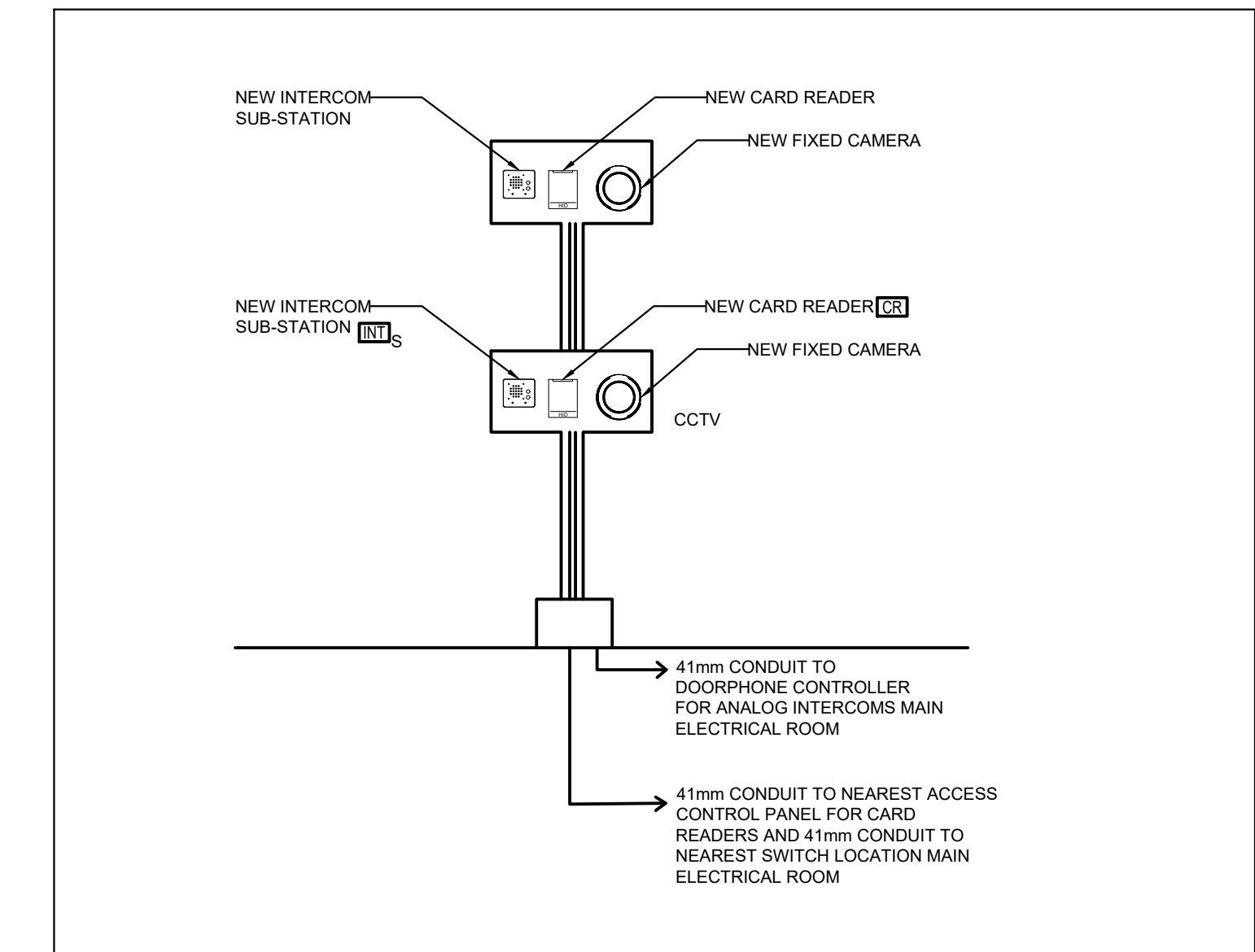
3 TYPICAL ELECTRIC STRIKE SINGLE DOOR SECURITY DETAIL WITH DOOR OPERATOR
SCALE: NTS



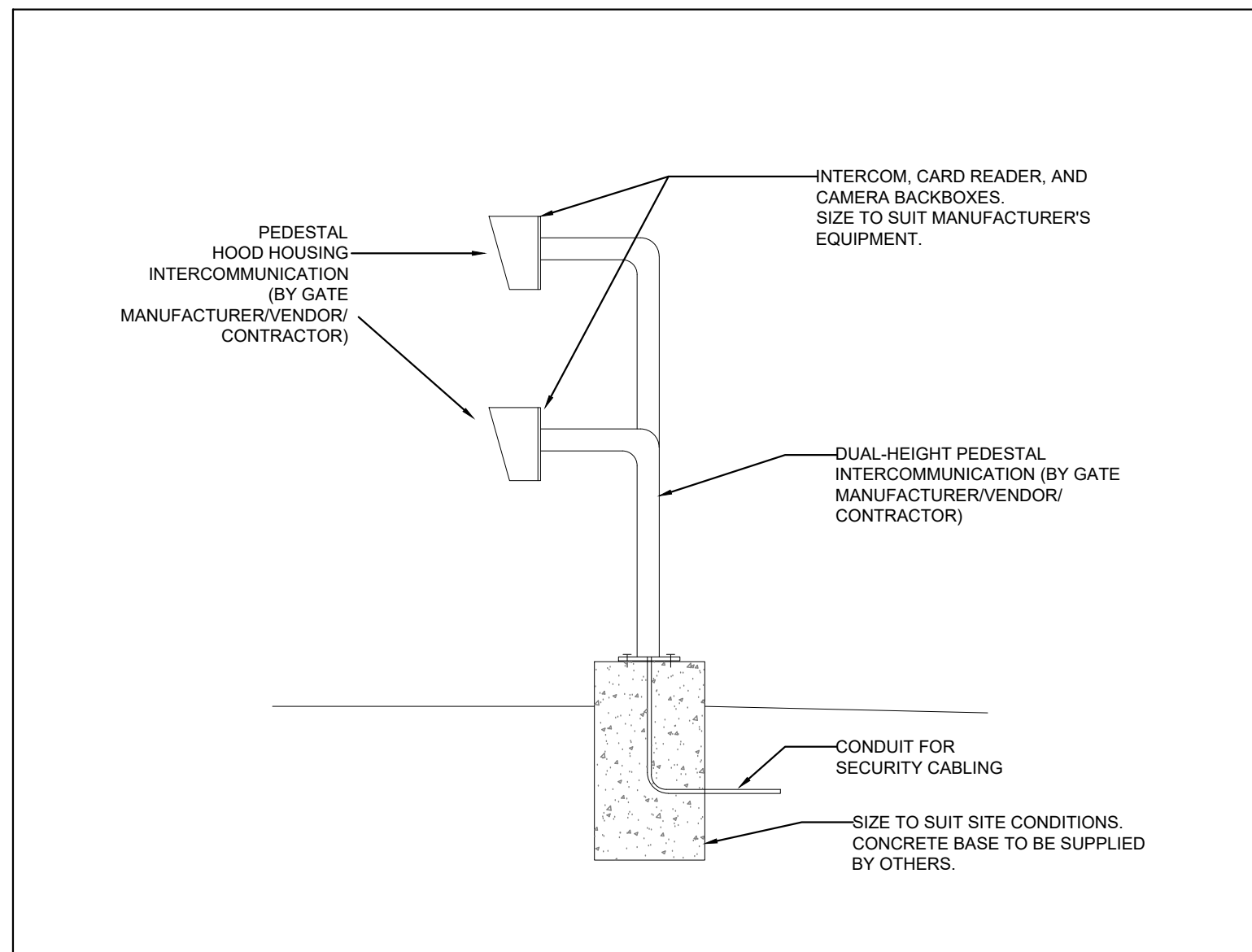
2 TYPICAL ELECTRIC STRIKE SINGLE DOOR SECURITY DETAIL
SCALE: NTS



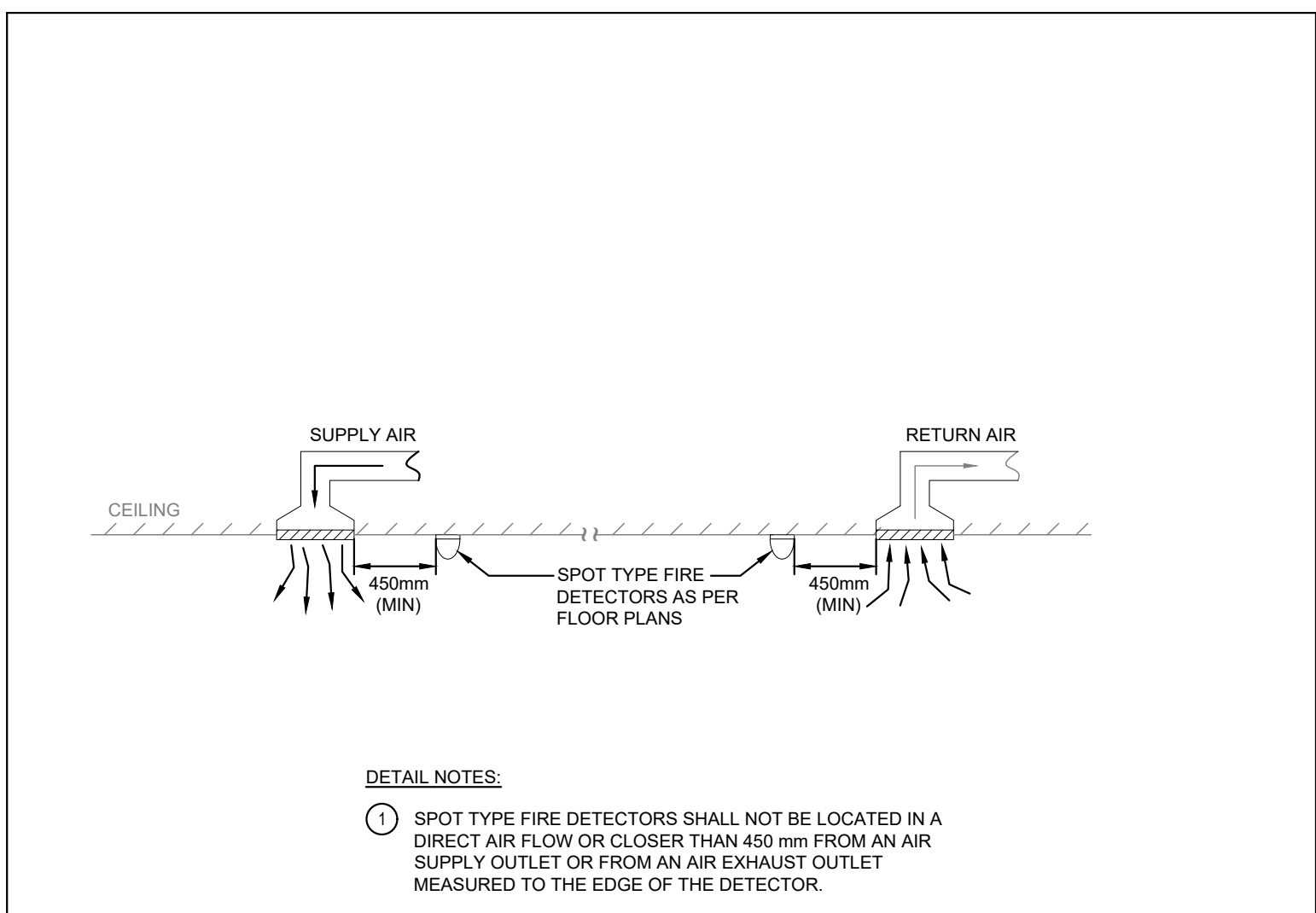
1 COMMS ROOM TYPICAL GROUNDING SCHEME
SCALE: NTS



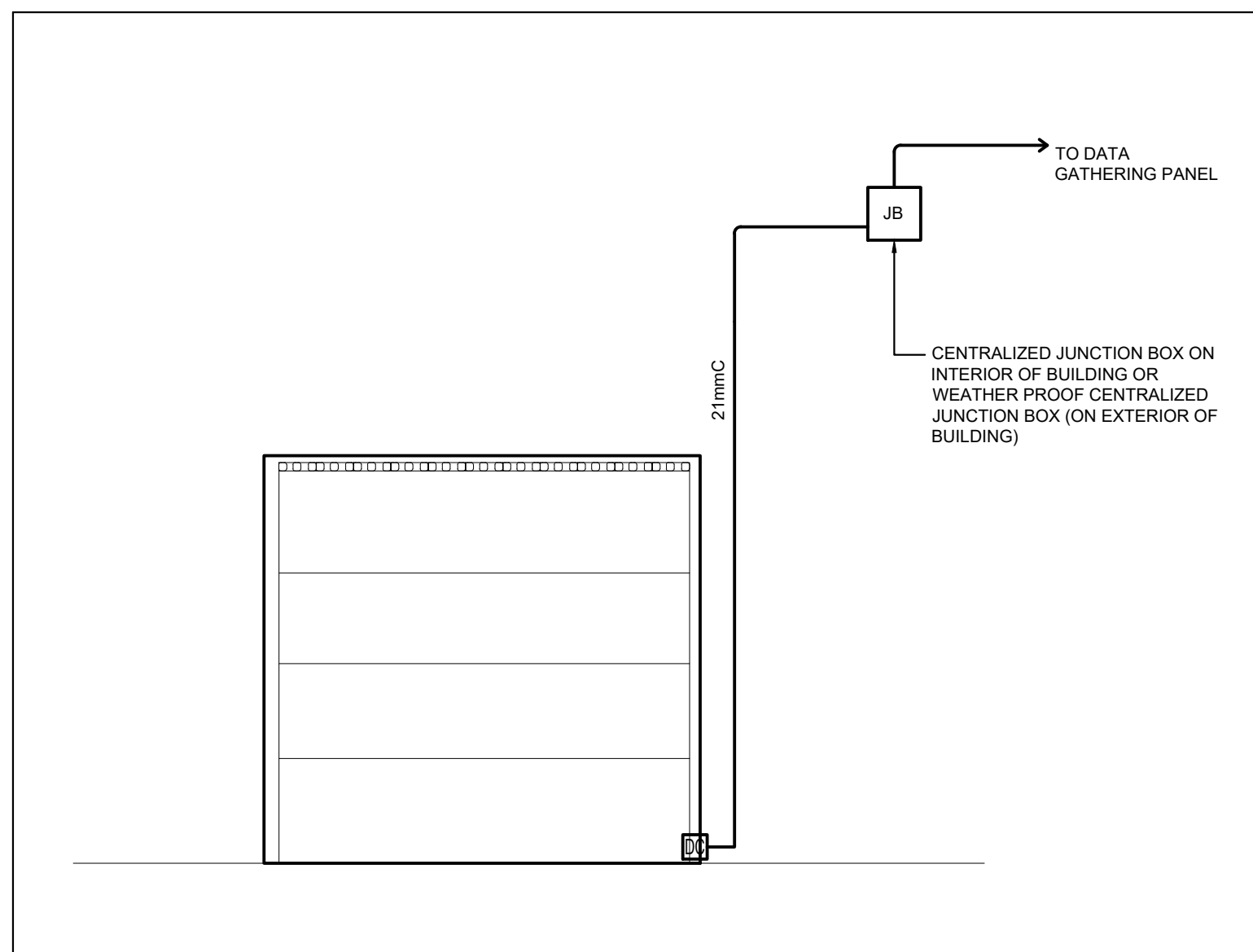
8 DUAL HEIGHT PEDESTAL DETAIL - FRONT SIDE VIEW
SCALE: NOT TO SCALE



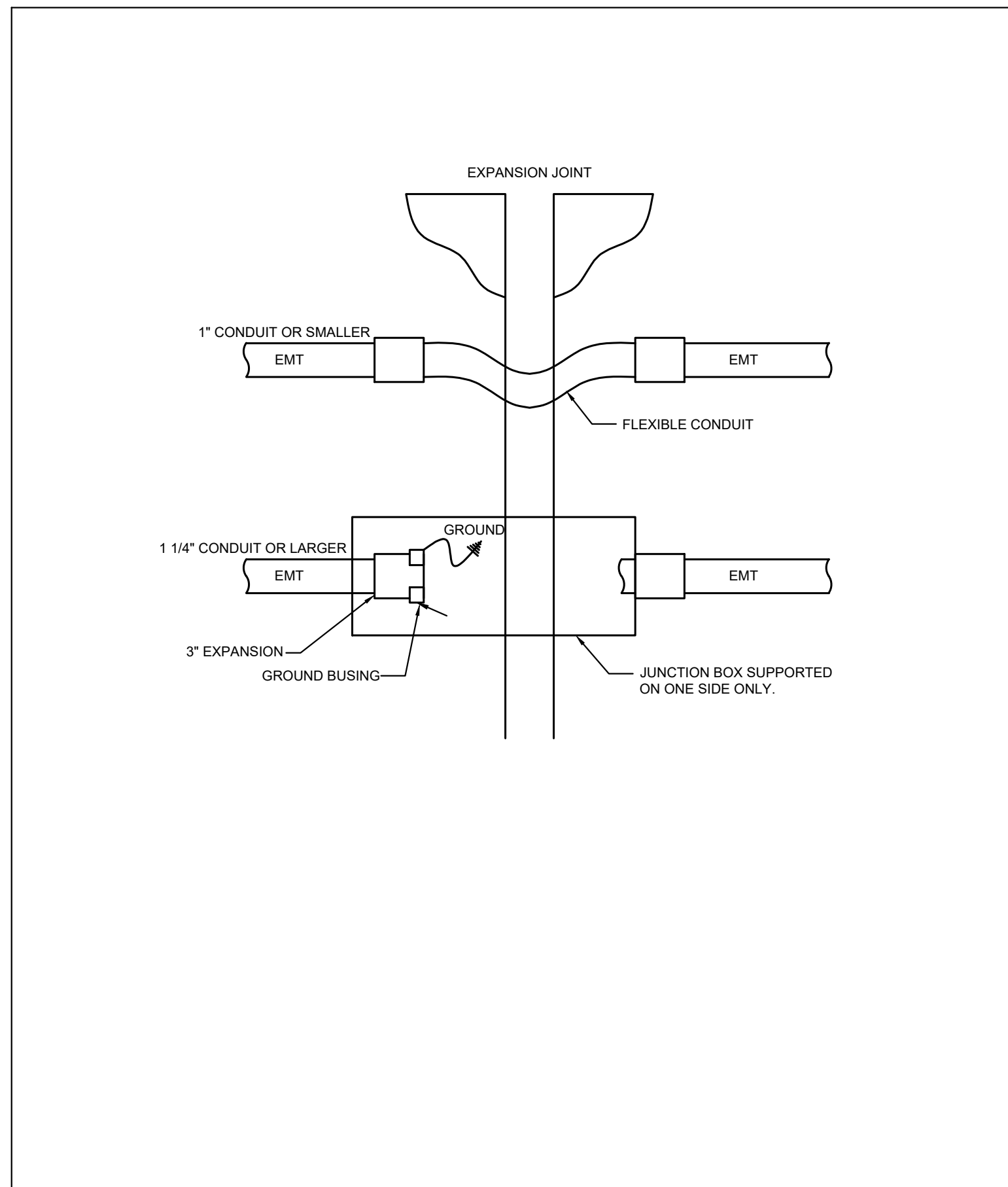
7 DUAL HEIGHT PEDESTAL DETAIL - SIDE VIEW
SCALE: NOT TO SCALE



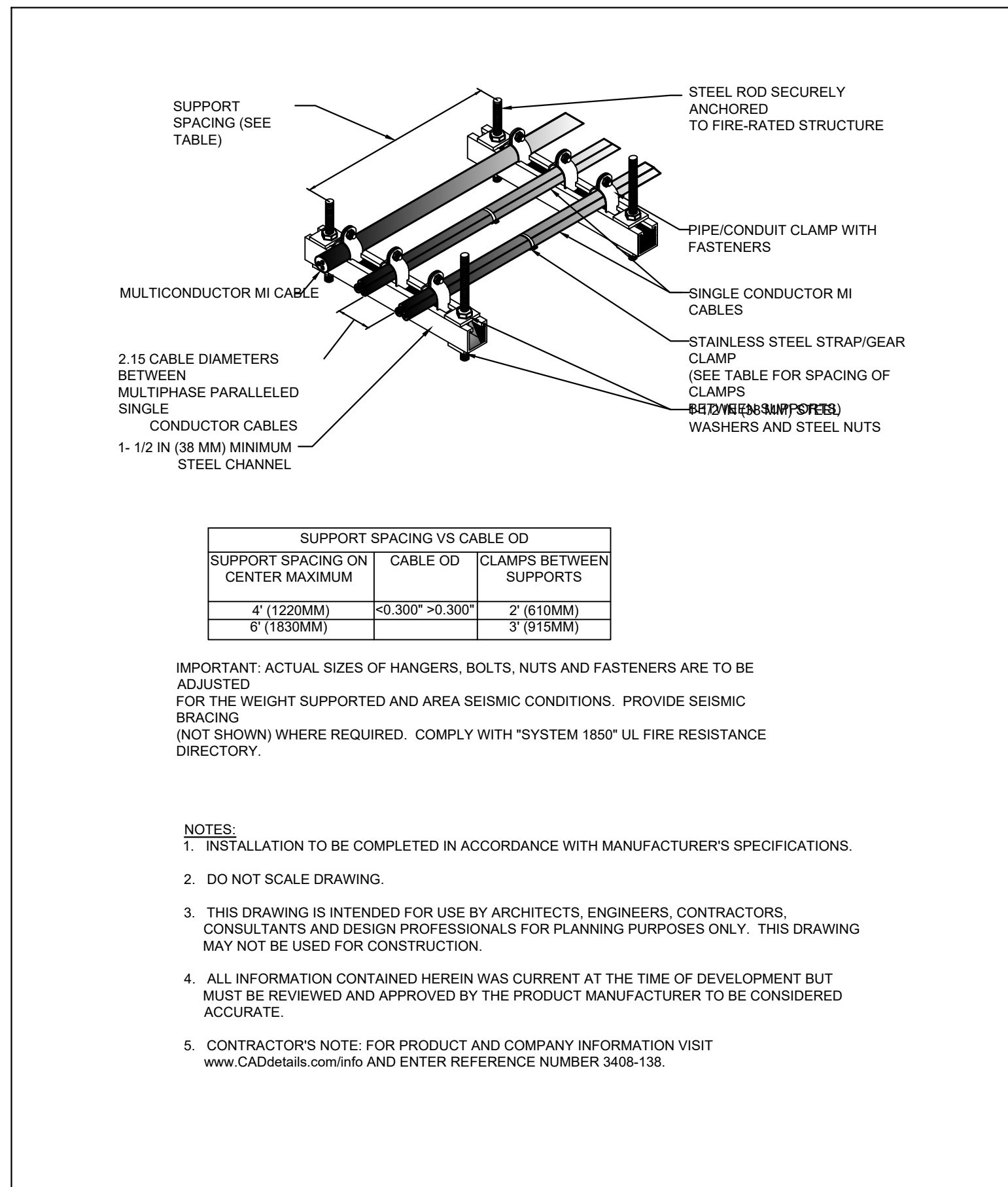
10 TYPICAL MOUNTING REQUIREMENTS FOR PHOTO ELECTRIC DETECTORS
SCALE: NTS



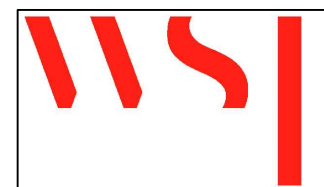
9 GARAGE DOOR SECURITY DETAIL
SCALE: NOT TO SCALE



6 EXPANSION JOINT CROSSING DETAIL
SCALE: N.T.S.



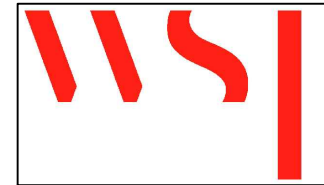
5 PYROTEX SYSTEM 1850 2-HOUR FIRE-RATED CABLE
SCALE: N.T.S.



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55 KING STREET, 7TH FLOOR, SUITE 700
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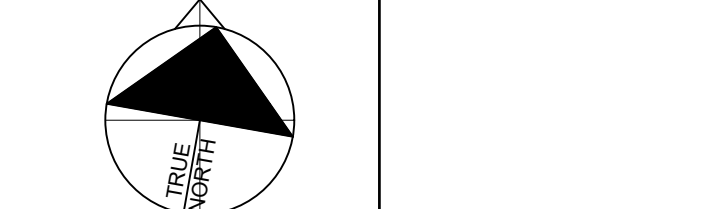


NOT FOR
CONSTRUCTION

THIS BAR IS 25mm LONG WHEN PLOTTED AT
CORRECT SCALE. DO NOT SCALE DRAWINGS.

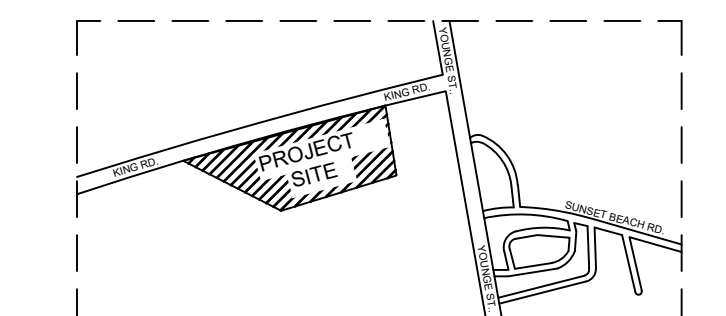
25mm

NORTH ARROW: DIGITAL REFERENCE:



PROJECT NO.: CAD011757-0343 CONTRACT NO.
DRAWN BY: Author CHECKED BY: Checker APPROVED BY: Approve

KEYPLAN:



6. 2020-04-15 ISSUED FOR TENDER
4. 2020-03-27 ISSUED FOR ESA REVIEW
3. 2020-04-17 RE-ISSUED FOR SITE PLAN APPROVAL III
2. 2024-12-20 RE-ISSUED FOR SITE PLAN APPROVAL
1. 2024-05-08 ISSUED FOR SITE PLAN APPROVAL
NO. DATE ISSUED

PROJECT

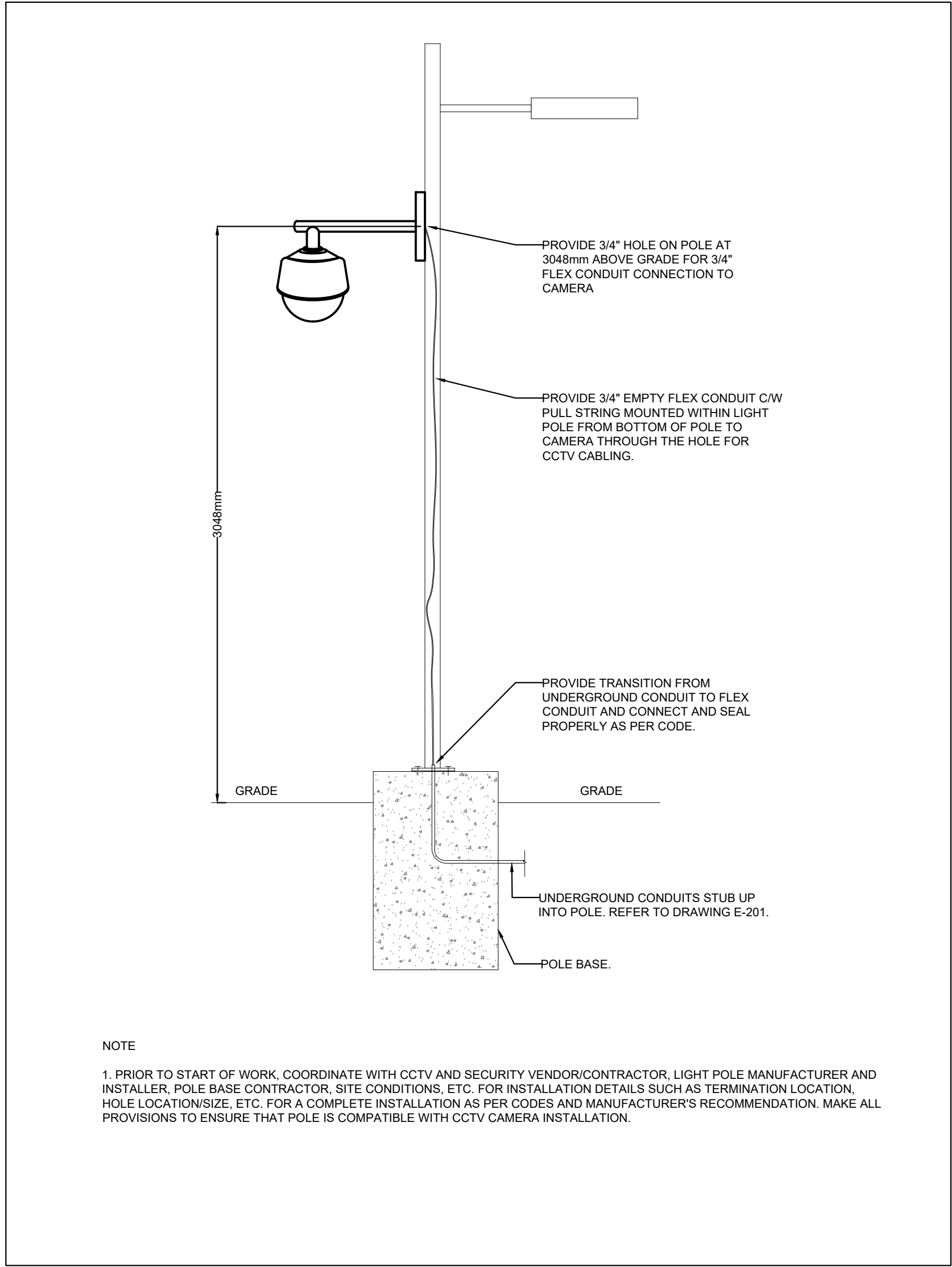
CONNOR BUILDING
RENOVATIONS

DRAWING TITLE

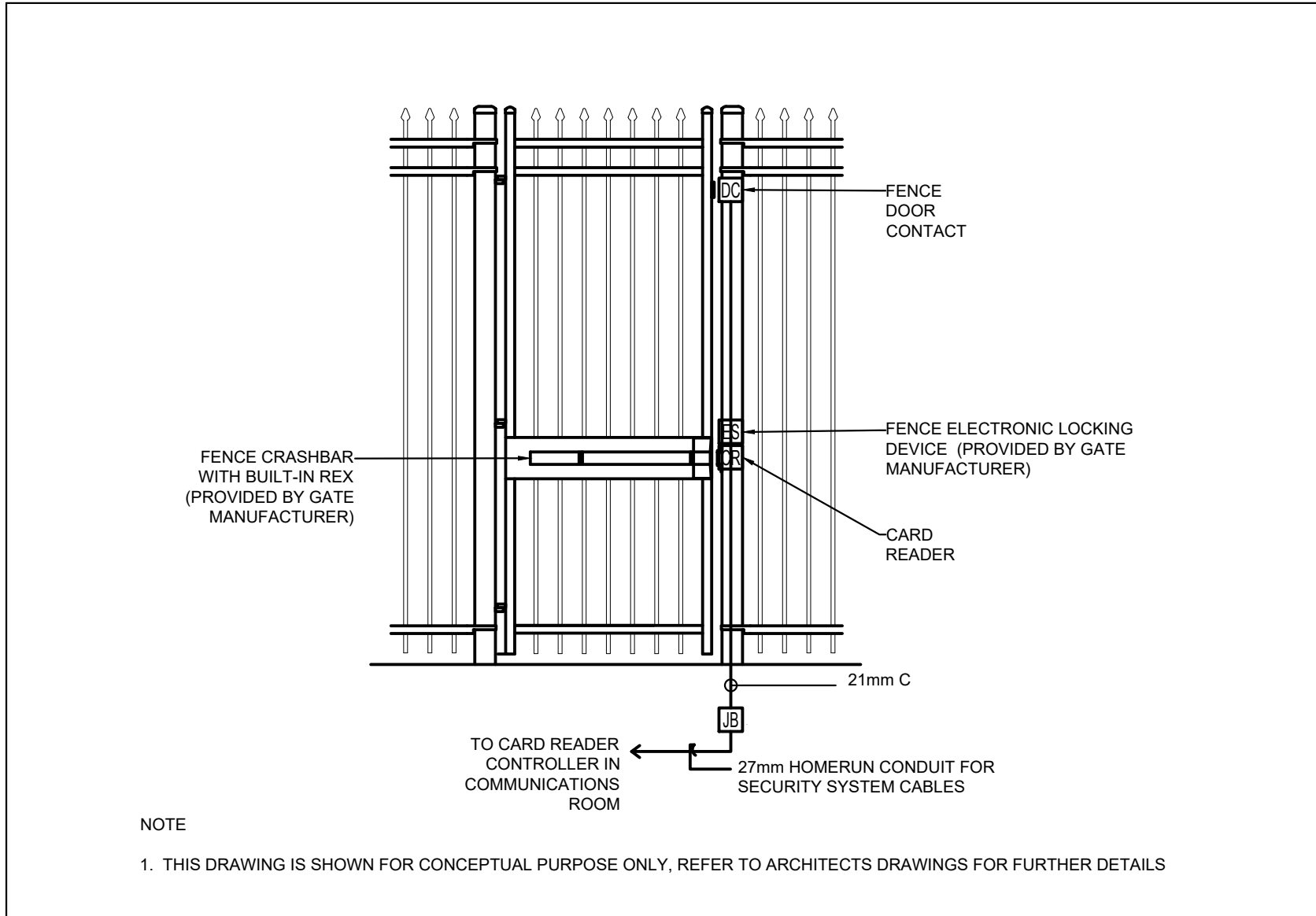
DETAILS

DRAWING NO.

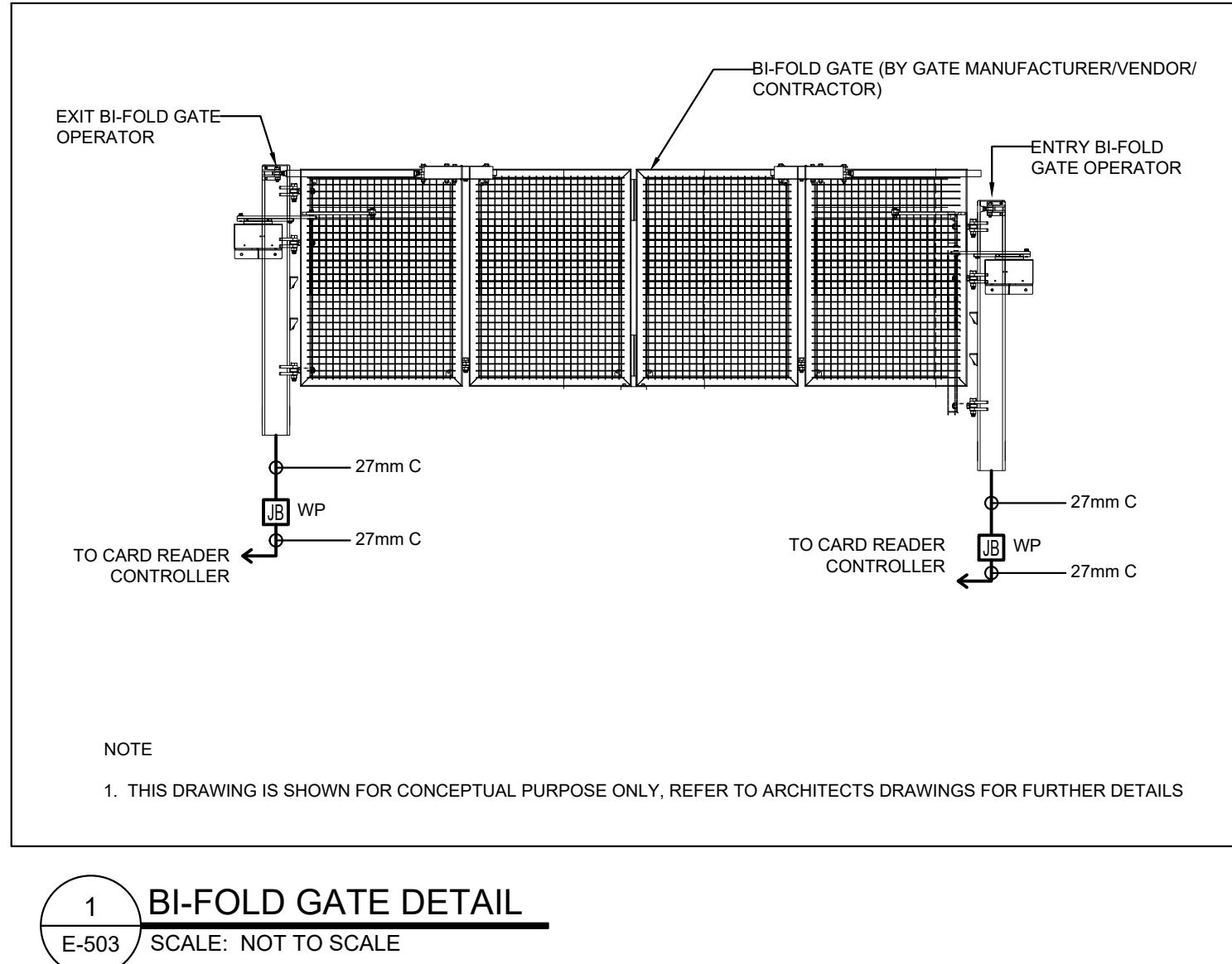
E-502



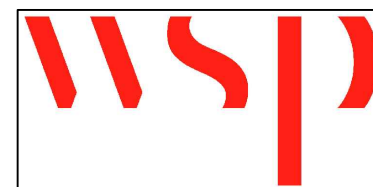
3 TYPICAL DETAIL OF POLE WITH CCTV
E-503 SCALE: NOT TO SCALE



2 VEHICULAR GATE (WALK-IN ENTRANCE)
E-503 SCALE: NOT TO SCALE



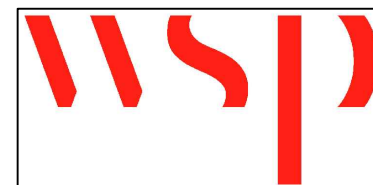
1 BI-FOLD GATE DETAIL
E-503 SCALE: NOT TO SCALE



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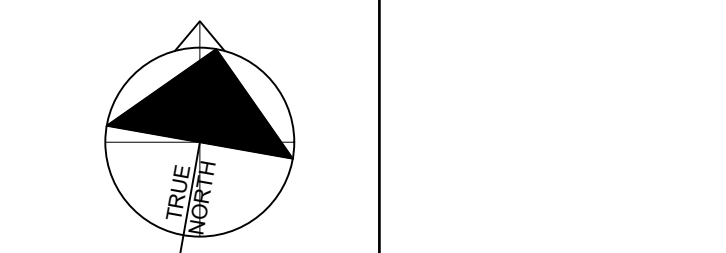
55 KING STREET, 7TH FLOOR, SUITE 700
ST. CATHARINES, ONTARIO
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CONSTRUCTION

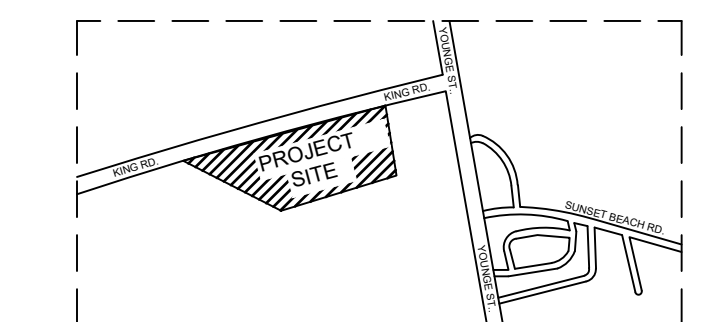
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CORRECT SCALE. DO NOT SCALE DRAWINGS.

NORTH ARROW: DIGITAL REFERENCE:



PROJECT NO.: CAD011757.0343 CONTRACT NO:
DRAWN BY: Author CHECKED BY: Checker APPROVED BY: Approve

KEYPLAN:



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NO.	DATE	ISSUED

PROJECT

CONNOR BUILDING
RENOVATIONS

DRAWING TITLE

DETAILS

DRAWING NO.

E-503