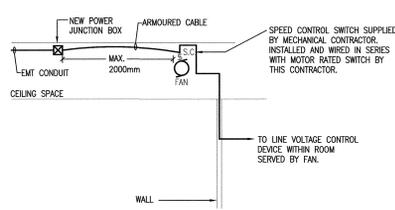


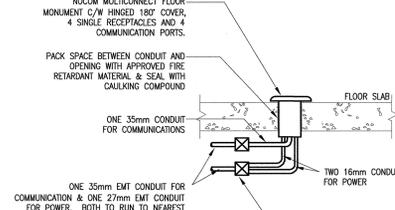
BASE BUILDING CORE DRILLING REQUIREMENTS

- CHECK WITH BUILDING MANAGEMENT PRIOR TO CORE DRILLING AND CUTTING OF FLOOR SLAB TO CONFIRM BUILDING REQUIREMENTS AND POLICIES.
- PERFORM CORE DRILLING AFTER REGULAR WORKING HOURS.
- NO REINFORCING STEEL SHALL BE CUT OR DISTURBED IN ANY WAY BY THE CORING OPERATION.
- DO NOT CORE DRILL OR CUT THROUGH COLUMN CAPTALS.
- ALL REINFORCING, CONDUITS AND OTHER EMBEDMENTS IN THE SLAB SHALL BE LOCATED BY GROUND PENETRATING RADAR AND DETECTION SCANNING PRIOR TO DRILLING OR CUTTING.
- ALL CORE DRILLS THROUGH SLABS MUST BE EFFECTIVELY SEALED TO MAINTAIN THE FIRE RATED SEPARATION.
- ALL COSTS FOR DRILLING, SCANNING AND FIRE STOPPING SHALL BE INCLUDED IN THE ELECTRICAL TENDER.
- ALL CORE DRILLING IS AT THE CONTRACTOR'S RISK WITH RESPECT TO REPAIR OF ANY IMBEDDED SERVICES THAT MAY BE CUT.



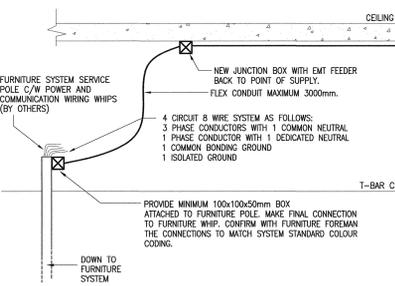
NOTE: FAN SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. ALL FINAL LINE VOLTAGE CONNECTIONS BY ELECTRICAL CONTRACTOR.

1 FAN CONNECTION DETAIL
E-1 N.T.S.

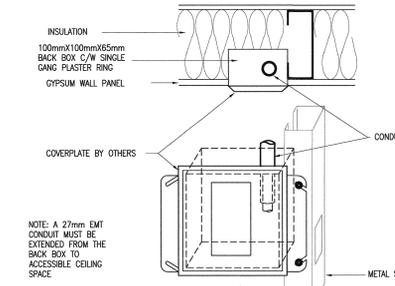


NOTE: A 27mm EMT CONDUIT MUST BE EXTENDED FROM THE BACK BOX TO ACCESSIBLE CEILING SPACE.

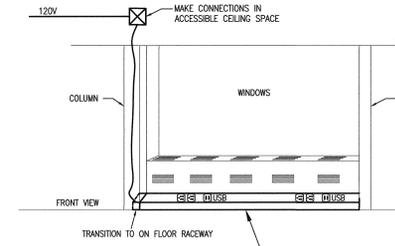
2 NOCOM MULTICONNECT INSTALLATION
E-1 N.T.S.



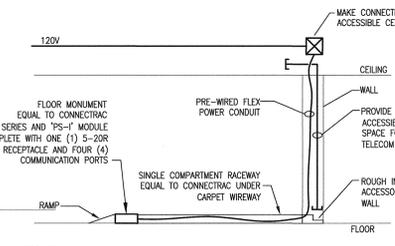
3 FURNITURE POLE CONNECTION DETAIL
E-1 N.T.S.



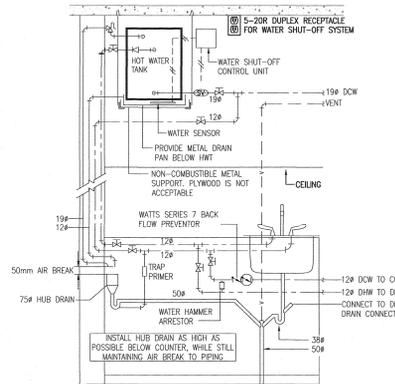
4 TELEPHONE AND DATA CONDUITS IN STUD WALL
E-1 N.T.S.



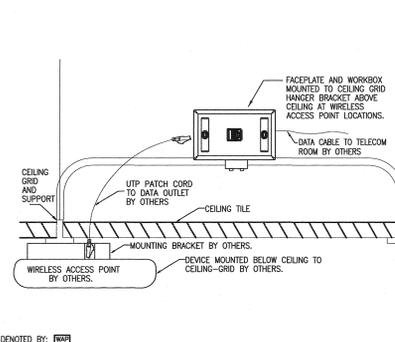
5 SINGLE CHANNEL RACEWAY ON FLOOR IN FRONT OF INDUCTION UNITS
E-1 N.T.S.



6 CONNECTRAC RACEWAY - COLLABORATION
E-1 AREA N.T.S.



7 DOMESTIC HOT WATER TANK PIPING DETAIL - CEILING MOUNTED
E-1 N.T.S.



8 WIRELESS ACCESS POINT MOUNTING
E-1 N.T.S.

LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	LAMPS	LED DIMMING DRIVER	DIMMING RANGE	VOLT	MOUNTING	REMARKS		
A	1220mm x 305mm LED FIXTURE, RIGID ONE-PIECE BODY CONSTRUCTED FROM CODE GAUGE STEEL. C/W DAM LATCH RELEASE FRAME.	32W LED	0-10V		347	RECESSED T-BAR	- 3000 LUMENS, 3500K, K12 LENS - 80 CR, WHITE FINISH - MAX FIXTURE HEIGHT OF 83mm		
B	1220mm GEOMETRIC LIGHTING DIRECT/INDIRECT LED FIXTURE, EXTRUDED ALUMINUM HOUSING, DIE CAST ALUMINUM END CAPS AND HANGERS, WHITE POWDER COATED SHEET STEEL REFLECTORS, EXTRUDED ACRYLIC LENS.	12W LED PER 305mm	0-10V	5-100%	347	SUSPENDED T-BAR	- 750 LUMENS UP PER 305mm, 300 LUMENS DOWN PER 305mm, 3500K, FLUSH LENS - 80 CR, WHITE FINISH, MAX FIXTURE HEIGHT OF 76mm		
B1	1830mm GEOMETRIC LIGHTING DIRECT/INDIRECT LED FIXTURE, EXTRUDED ALUMINUM HOUSING, DIE CAST ALUMINUM END CAPS AND HANGERS, WHITE POWDER COATED SHEET STEEL REFLECTORS, EXTRUDED ACRYLIC LENS.	12W LED PER 305mm	0-10V	5-100%	347	SUSPENDED T-BAR	- 750 LUMENS UP PER 305mm, 300 LUMENS DOWN PER 305mm, 3500K, FLUSH LENS - 80 CR, WHITE FINISH, MAX FIXTURE HEIGHT OF 76mm		
B2	3600mm GEOMETRIC LIGHTING DIRECT/INDIRECT LED FIXTURE, EXTRUDED ALUMINUM HOUSING, DIE CAST ALUMINUM END CAPS AND HANGERS, WHITE POWDER COATED SHEET STEEL REFLECTORS, EXTRUDED ACRYLIC LENS.	12W LED PER 305mm	0-10V	5-100%	347	SUSPENDED T-BAR	- 750 LUMENS UP PER 305mm, 300 LUMENS DOWN PER 305mm, 3500K, FLUSH LENS - 80 CR, WHITE FINISH, MAX FIXTURE HEIGHT OF 76mm		
C	LED COVE FIXTURE, EXTRUDED ALUMINUM HOUSING, STEEL CONSTRUCTION MOUNTING CLIPS. PROVIDE LENGTH AS SHOWN ON DRAWINGS.	2.4W LED PER 305mm			347	SURFACE COVE	- FROSTED LENS, 844 CR, "PRO-PLUS" LED STYLE, - 3500K, 318 LUMENS PER 305mm, WHITE FINISH - MAX FIXTURE HEIGHT OF 19mm		
D	103mm SPECIFICATION GRADE LED LENSED DOWNLIGHT C/W REMOTE PHOSPHOR TECHNOLOGY, ONE-PIECE 22 GAUGE NON-CORROSIVE STEEL PLATFORM, ALUMINUM REFLECTOR.	19W LED			120	RECESSED T-BAR	- 1500 LUMENS, 3500K, OPTUSE LENS, 90 CR, WHITE FINISH - C/W 347-120 STEPDOWN TRANSFORMER AND ALL REQUIRED POWER PACKS FOR DIMMING CONTROLS SHOWN ON PLANS - MAX FIXTURE HEIGHT OF 150mm		
F	634mm LED INDIRECT PENDANT, EXTRUDED ALUMINUM HOUSING, DIE CAST ALUMINUM END CAPS AND HANGERS, EXTRUDED ACRYLIC LENSES AND REFLECTORS.	42W LED	0-10V	2-100%	120	SUSPENDED T-BAR	- 700 LUMENS PER 305mm, 3500K, MICRO LENS - 80 CR, WHITE FINISH - MAX FIXTURE HEIGHT OF 50mm		
F1	942mm LED INDIRECT PENDANT, EXTRUDED ALUMINUM HOUSING, DIE CAST ALUMINUM END CAPS AND HANGERS, EXTRUDED ACRYLIC LENSES AND REFLECTORS.	63W LED	0-10V	2-100%	120	SUSPENDED T-BAR	- 700 LUMENS PER 305mm, 3500K, MICRO LENS - 80 CR, WHITE FINISH - MAX FIXTURE HEIGHT OF 50mm		
G1	LARGE RECESSED LED TRIANGLE FIXTURE, EXTRUDED ALUMINUM HOUSING, DIE CAST ALUMINUM END CAPS AND HANGERS, EXTRUDED ACRYLIC LENSES AND REFLECTORS.	7W LED PER 305mm	0-10V	2-100%	120	RECESSED DRYWALL	- 700 LUMENS PER 305mm, 3500K, MICRO LENS - 80 CR, WHITE FINISH - MAX FIXTURE HEIGHT OF 50mm		
G2	MEDIUM RECESSED LED TRIANGLE FIXTURE, EXTRUDED ALUMINUM HOUSING, DIE CAST ALUMINUM END CAPS AND HANGERS, EXTRUDED ACRYLIC LENSES AND REFLECTORS.	7W LED PER 305mm	0-10V	2-100%	120	RECESSED DRYWALL	- 700 LUMENS PER 305mm, 3500K, MICRO LENS - 80 CR, WHITE FINISH - MAX FIXTURE HEIGHT OF 50mm		
G3	SMALL RECESSED LED TRIANGLE FIXTURE, EXTRUDED ALUMINUM HOUSING, DIE CAST ALUMINUM END CAPS AND HANGERS, EXTRUDED ACRYLIC LENSES AND REFLECTORS.	7W LED PER 305mm	0-10V	2-100%	120	RECESSED DRYWALL	- 700 LUMENS PER 305mm, 3500K, MICRO LENS - 80 CR, WHITE FINISH - MAX FIXTURE HEIGHT OF 50mm		
H	SMALL LED 16mm DIAMETER PENDANT FIXTURE, ANODIZED ALUMINUM CONSTRUCTION C/W CORD SUSPENSION.	0.2W LED			120	SUSPENDED T-BAR	- WARM WHITE COLOUR TEMP, 80+ CR, BLACK ANODIZED FINISH - ROUND CANOPY, C/W 347-120 STEPDOWN TRANSFORMER - MAX FIXTURE HEIGHT OF 76mm		
J	86mm LED DOWNLIGHT, CAST ALUMINUM CONSTRUCTION C/W POWDER COATED FINISH AND GALVANIZED STEEL HOUSING.	7W LED	0-10V	1-100%	120	RECESSED T-BAR	- 3000 LUMENS, 3500K, 80° REFLECTOR - 84+ CR, WHITE FINISH, MAX FIXTURE HEIGHT OF 216mm		
K	154mm LED RETROFIT DOWNLIGHT, HIGH GRADE SPUN ALUMINUM REFLECTOR AND EXTRUDED ALUMINUM HEAT SINK.	23W LED			347	RECESSED DRYWALL	- 1348 LUMENS, 3500K, WIDE BEAM ANGLE, SEMI-SPECULAR REFLECTOR - 85 CR, WHITE FINISH, MAX FIXTURE HEIGHT OF 125mm		
P	384mm DIAMETER DECORATIVE PENDANT FIXTURE, STEEL ENCLOSURE C/W TRIANGULAR REFLECTIVE OPENINGS.	8.5W A19 LED RETROFIT			120	SUSPENDED DRYWALL	- E26 BASE SOCKET - SILVER FINISH, C/W 347-120 STEPDOWN TRANSFORMER - MAX FIXTURE DIAMETER OF 384mm		
Q	BASE BUILDING FLUORESCENT	1-32W T8			347	RECESSED DRYWALL	- TO BE REMOVED		
R	DOWNLIGHT FIXTURE	1-28W CFL			347	RECESSED T-BAR	- TO BE REMOVED		
S	610mm X 610mm LAY-IN FLUORESCENT FIXTURE	1-28W T8U			347	RECESSED DRYWALL	- TO BE REMOVED		
T	TRACK LIGHT FIXTURE	1-35W MR16			120	SURFACE T-BAR	- TO BE REMOVED		
U	1220mm FLUORESCENT STRIP LIGHT FIXTURE	1-32W T8			347	SURFACE	- TO BE REMOVED		
V	FLUORESCENT COVE LIGHT FIXTURE	1-32W T8			347	SURFACE COVE	- TO BE REMOVED		
W	WALL MOUNTED FIXTURE	1-35W MR16			120	SURFACE WALL	- TO BE REMOVED		

NOTES:
1. 0-10V DENOTES 0-10V DIMMING CONTROL

REMOVE	EXISTING TO REMAIN	NEW AND/OR RELOCATED	ELECTRICAL LEGEND
			610mm x 610mm FLUORESCENT FIXTURE, LETTER DENOTES TYPE.
			305mm x 1220mm LIGHT FIXTURE, LETTER DENOTES TYPE.
			305mm x 1220mm LIGHT FIXTURE ON UNSWITCHED EMERGENCY LIGHTING CIRCUIT, LETTER DENOTES TYPE.
			STRIP FIXTURE, LENGTH AS SHOWN, LETTER DENOTES TYPE.
			COVE FIXTURE, LENGTH AS SHOWN, LETTER DENOTES TYPE.
			SUSPENDED LED FIXTURE, LETTER DENOTES TYPE.
			LED FIXTURE, SIZE AS SHOWN, LETTER DENOTES TYPE.
			TRACK LIGHT FIXTURE, LETTER DENOTES TYPE.
			DOWNLIGHT FIXTURE, LETTER DENOTES TYPE.
			DOWNLIGHT FIXTURE ON UNSWITCHED EMERGENCY LIGHTING CIRCUIT, LETTER DENOTES TYPE.
			WALL MOUNTED FIXTURE, LETTER DENOTES TYPE.
			EXIT LIGHT, CEILING MOUNTED, C/W DIRECTIONAL ARROWS AS NOTED.
			DIMMER SWITCH (OS = OCCUPANCY SENSOR).
			20A, 1P, 347V LIGHT SWITCH.
			20A, 1P, 120V LIGHT SWITCH.
			LOW VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR, CEILING MOUNTED.
			LIGHTING RELAY PANEL.
			FIRE ALARM PULL STATION.
			FIRE ALARM SPEAKER, CEILING MOUNTED TYPE.
			COMBINATION FIRE ALARM SPEAKER/STROBE, CEILING MOUNTED TYPE.
			15A, 120V, DUPLEX RECEPTACLE, LINE ACROSS INDICATES ELEVATED HEIGHT.
			15A, 120V, DUPLEX RECEPTACLE ON DEDICATED CIRCUIT, LINE ACROSS INDICATES ELEVATED HEIGHT.
			SPECIAL RECEPTACLE AS NOTED, LINE ACROSS INDICATES ELEVATED HEIGHT.
			QUADPLEX, 15A, 120V, TWO (2) DUPLEX RECEPTABLES UNDER COMMON COVER PLATE.
			15A, 120V, CEILING MOUNTED DUPLEX RECEPTACLE.
			FURNITURE POLE FEED CONNECTION.
			ALUMINUM TWO (2) COMPARTMENT POWER AND COMMUNICATION SERVICE POLE C/W TWO (2) DUPLEX RECEPTABLES.
			HARD WIRED CONNECTION TO EQUIPMENT.
			15A, 120V, FLOOR MOUNTED DUPLEX RECEPTACLE.
			COMBINATION FLOOR BOX.
			SURFACE MOUNTED ELECTRICAL PANEL.
			TRANSFORMER (RATED AS SHOWN).
			JUNCTION BOX.
			MOTOR CONNECTION.
			UP/DOWN 'ROCKER' STYLE SWITCH.
			SPEED CONTROL.
			MOTOR RATED SWITCH.
			COMBINATION TELEPHONE/DATA OUTLET.
			TV OUTLET.
			CARD ACCESS (CONDUIT/BACK BOX ONLY, DEVICES AND WIRING BY OTHERS).
			DOOR CONTACT (CONDUIT/BACK BOX ONLY, DEVICES AND WIRING BY OTHERS).
			ELECTRIC STRIKE (CONDUIT/BACK BOX ONLY, DEVICES AND WIRING BY OTHERS).
			REQUEST TO EXIT (CONDUIT/BACK BOX ONLY, DEVICES AND WIRING BY OTHERS).
			WIRELESS ACCESS POINT (BACK BOX ONLY, DEVICES AND WIRING BY COMMUNICATION CONTRACTOR).
			PUSH BUTTON (CONDUIT/BACK BOX ONLY, DEVICES AND WIRING BY OTHERS).

DWG. #	DESCRIPTION
ED-1	ELECTRICAL: 17TH FLOOR - DEMOLITION
ED-2	ELECTRICAL: 19TH FLOOR - DEMOLITION
ED-3	ELECTRICAL: 20TH FLOOR - DEMOLITION
ED-4	ELECTRICAL: 21ST FLOOR - DEMOLITION
E-1	ELECTRICAL: LEGEND, DRAWING LIST AND DETAILS
E-2	ELECTRICAL: 17TH FLOOR - LIGHTING AND FIRE ALARM
E-3	ELECTRICAL: 17TH FLOOR - POWER AND SYSTEMS
E-4	ELECTRICAL: 19TH FLOOR - LIGHTING AND FIRE ALARM
E-5	ELECTRICAL: 19TH FLOOR - POWER AND SYSTEMS
E-6	ELECTRICAL: 20TH FLOOR - LIGHTING AND FIRE ALARM
E-7	ELECTRICAL: 20TH FLOOR - POWER AND SYSTEMS
E-8	ELECTRICAL: 21ST FLOOR - LIGHTING AND FIRE ALARM
E-9	ELECTRICAL: 21ST FLOOR - POWER AND SYSTEMS
E-10	ELECTRICAL: PARTIAL SINGLE LINE DIAGRAM

DESIGNED BY	DATE	DESCRIPTION
C.J.	2018-02-09	CONQUER
C.J.	2018-02-09	DESIGN
B.T.	2018-02-09	EXAMINE
B.T.	2018-02-09	APPROVE
Brent Chiff	2018-02-09	COMMISSION



Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

NO.	DATE	DESCRIPTION
03	2018-01-15	Issued for Tender
02	2018-01-08	Issued for 99% Client Review
01	2018-01-15	Issued for 65% Client Review

REVISIONS	DESCRIPTION	DATE
A	A detail no. in detail	
B	B location drawing no. sur dessin n°	
C	C drawing no. dessin n°	

Generic Swing Space at LEL West Tower

300 Laurier West, Ottawa, ON

ELECTRICAL: LEGEND, DRAWING LIST AND DETAILS

DESIGNED BY	DATE	DESCRIPTION
C.J.	2018-02-09	CONQUER
C.J.	2018-02-09	DESIGN
B.T.	2018-02-09	EXAMINE
B.T.	2018-02-09	APPROVE
Brent Chiff	2018-02-09	COMMISSION