

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

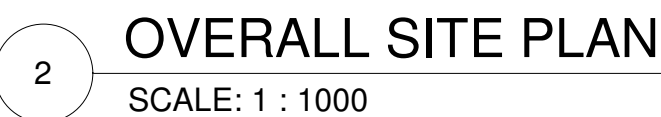
10	ISSUED FOR ADDENDUM 15	2024-12-04
9	ISSUED FOR ADDENDUM 14	2024-11-27
8	ISSUED FOR ADDENDUM 10	2024-10-15
7	ISSUED FOR ADDENDUM 8	2024-10-07
6	ISSUED FOR ADDENDUM 6	2024-09-30
5	ISSUED FOR ADDENDUM 3	2024-09-23
4	ISSUED FOR ADDENDUM 1	2024-09-16
3	ISSUED FOR TENDER	2024-09-09
2	ISSUED FOR SITE PLAN APPROVAL	2024-08-16
1	ISSUED FOR BUILDING PERMIT	2024-07-31
NO.	ISSUED	DATE

All measurements are to be checked and verified on site by the contractor before proceeding with work

Drawn by: ZK
Checked by: AO
Original Issue Date: 2024-07-31
Project No: TT-24-005
Scale: As indicated

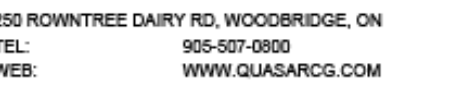
Drawing
No.
E-100

1 OVERALL SITE PLAN (1:1000 SCALE) HAS BEEN DRAWN ON
EXISTING SITE PLANS FROM OTHER PROJECTS. NOTES
WRITTEN FOR THIS PROJECT ARE PREFIXED BY THE TERM
"HANGAR". OTHER NOTES ARE INFORMATION ONLY.



1.	WHERE DIMENSIONS ARE PROVIDED IN METRIC AND IN IMPERIAL UNITS, METRIC DIMENSIONS GOVERN.
2.	EMERGENCY POWER FOR LIGHTING AND FIRE ALARM: MINIMUM 30 MINUTES PER 2012 CBC 3.2.7.4 (1)(b) AND 30 MIN FOR ANY OTHER BUILDING).
3.	FIRE ALARM INSTALLATION IN ACCORDANCE WITH CANULC-S524-14.
4.	VERIFY FIRE ALARM SYSTEM IN ACCORDANCE WITH CANULC-S537-13.
5.	COMMISSION INTERCONNECTED LIFE SAFETY SYSTEMS IN ACCORDANCE WITH CANULC-S1001-11.
6.	PROVIDE SEISMIC RESTRAINTS IN ACCORDANCE WITH SECTION 26 05 48. THIS IS A POST-DRIFT DRAWING. SEISMIC RESTRAINTS ARE REQUIRED PER 2012 CBC 4.1.8.18.(1) AND ARE NOT EXEMPT PER 2012 CBC 4.1.8.18.(2).
7.	REFER TO AVIATION DRAWINGS FOR DETAILS OF AVIATION RELATED EQUIPMENT TO BE PROVIDED BY ELECTRICAL CONTRACTOR.





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[illegible]

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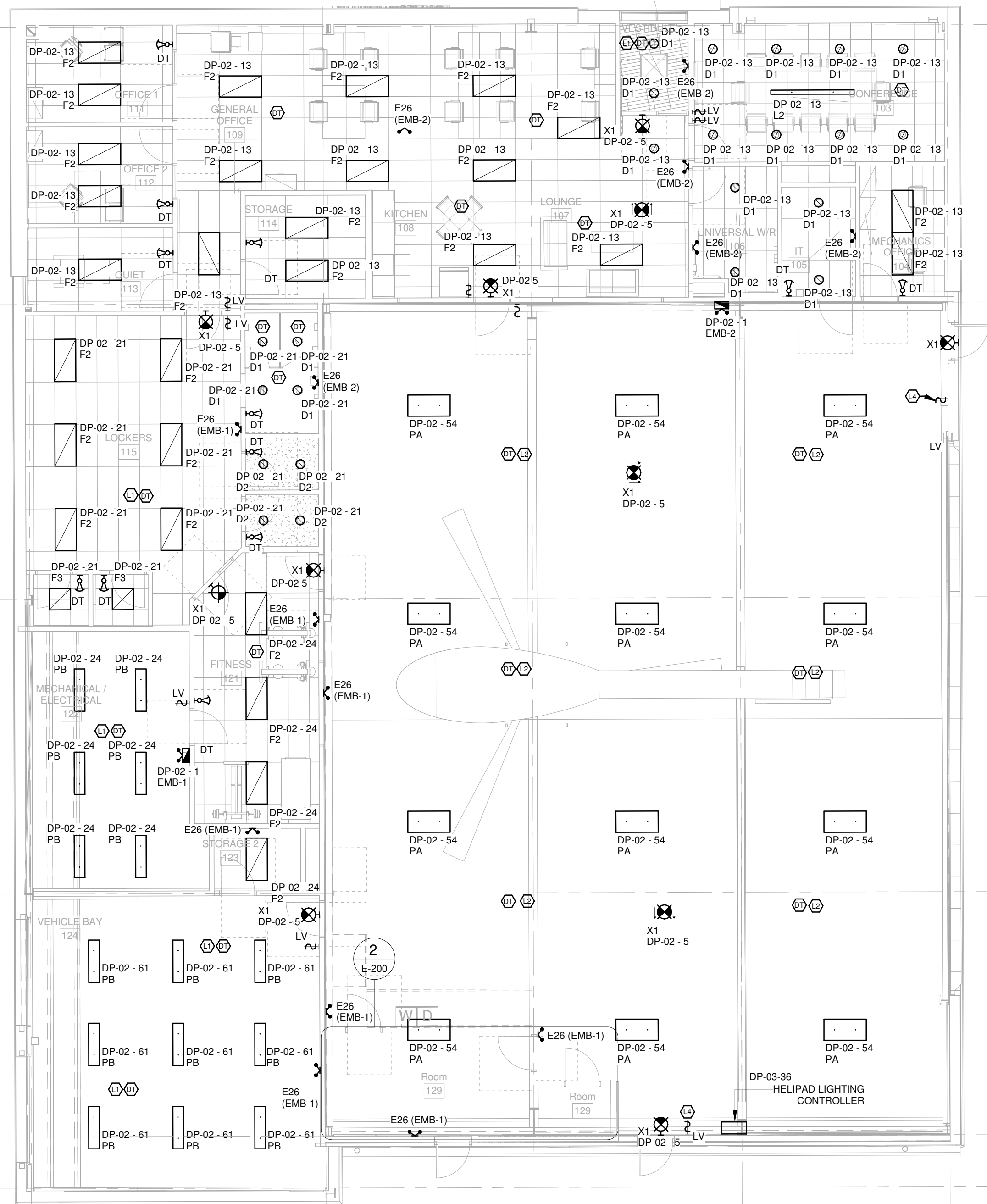
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Drawing
No.
E-200

KEYNOTE LEGEND	
Key Value	Keynote Text
L1	COMBINATION OF ULTRASONIC (US) AND PASSIVE INFRARED (PIR) TECHNOLOGIES.
L2	WIRELESS HIGH MOUNT SENSOR FOR OCCUPANCY SENSING AND DAYLIGHT HARVESTING. MATCH HEIGHT OF PA LUMINAIRES IN HANGAR.
L4	DIGITAL SWITCH. APRON LIGHTING OVERRIDE CONTROL.

1. REFER TO POWER AND SIGNALS DRAWINGS FOR SWITCHED RECEPTACLES.





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YORK REGIONAL POLICE
HELICOPTER HANGAR

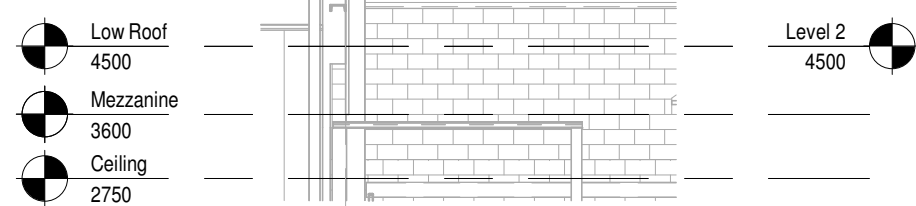
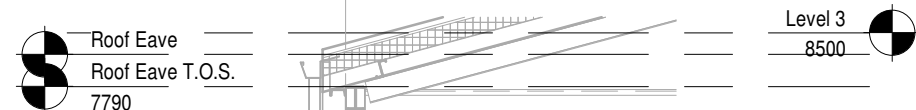
350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

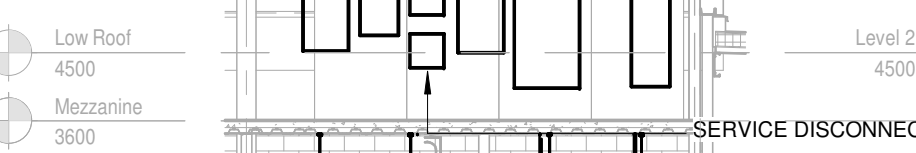
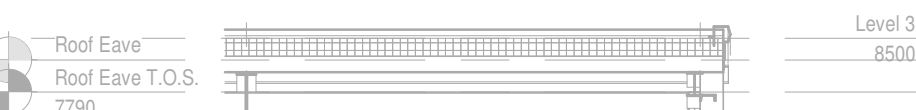
KEYNOTE LEGEND	
Key Value	Keynote Text
P1	CONDUIT TERMINATION FOR ANTENNA SYSTEM TO ROOF LEVEL. CONFIRM EXACT LOCATION ARCHITECT.
P2	P2 ANY EQUIPMENT INSTALLED UP TO 450mm AFF SHALL BE HAZARDOUS RATED ZONE 2 PER OESC 20-402 (2)
P3	P3 MOUNT BOTTOM OF RECEPTACLES MINIMUM 500mm AFF
P4	RADIO: MOUNT 1100AFF. CONFIRM LOCATION WITH ARCHITECT PRIOR TO INSTALLATION
P5	INSTALL TV POWER AND DATA 18INCH BELOW CEILING. VERIFY EXACT MOUNTING LOCATION WITH OWNER PRIOR TO INSTALLATION.
P6	SCRAMBLEPAD
P7	INTRUSION DETECTION SYSTEM KEYPAD

GENERAL NOTES:

1. CONCEAL ALL CONDUIT EXCEPT IN MECHANICAL ROOMS AND ELECTRICAL ROOMS. OR UNLESS OTHERWISE INDICATED IN THIS SPECIFICATION, OR NOTED ON THE DRAWINGS, SURFACE CONDUIT WORK IS NOT PERMITTED UNLESS SPECIFICALLY NOTED.



Section 3
SCALE: 1: 100



Section 5
SCALE: 1: 100

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Issues

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Do not scale drawings

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Scale: As indicated

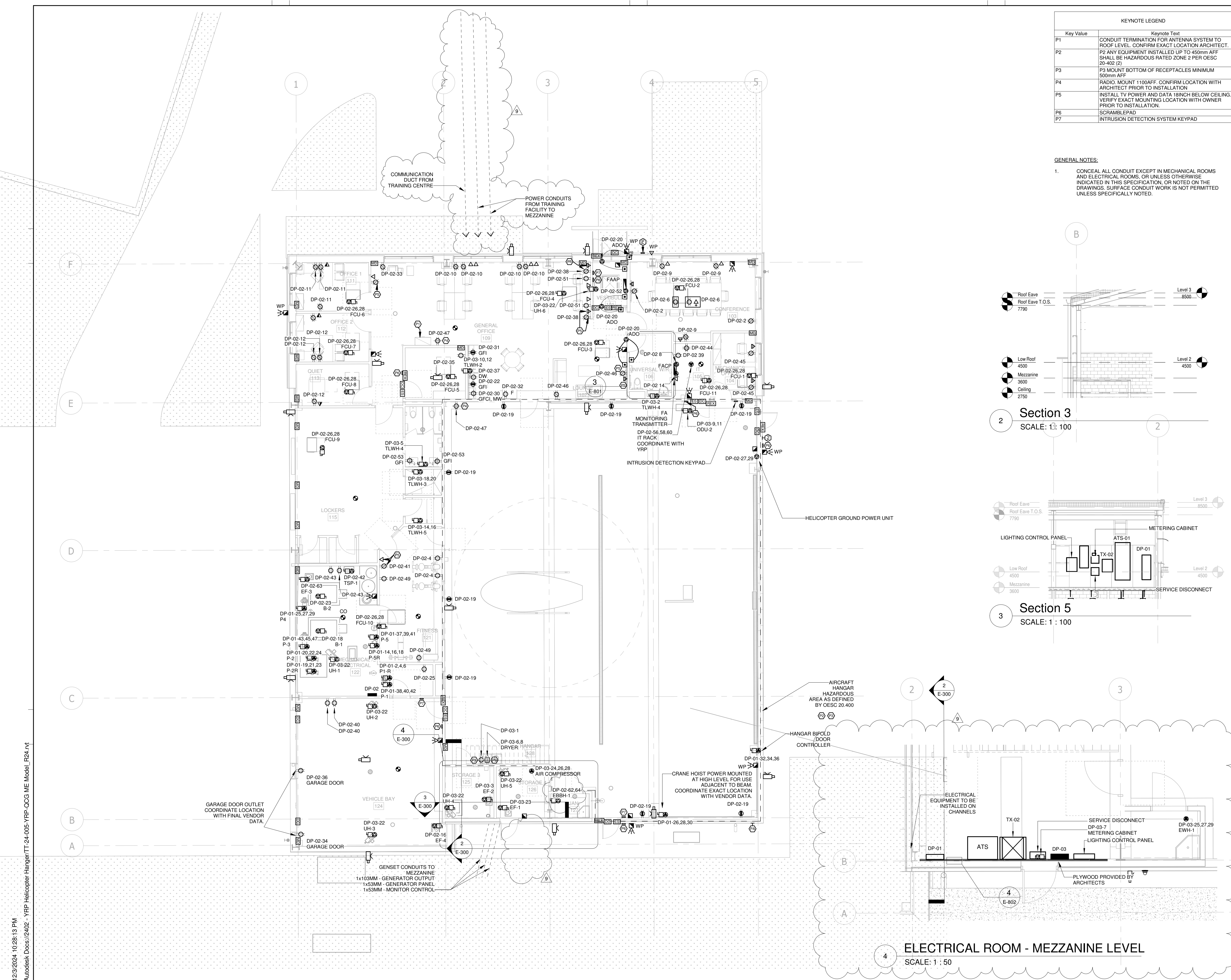
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Title:

POWER AND SYSTEMS
NEW WORK - GROUND
FLOOR

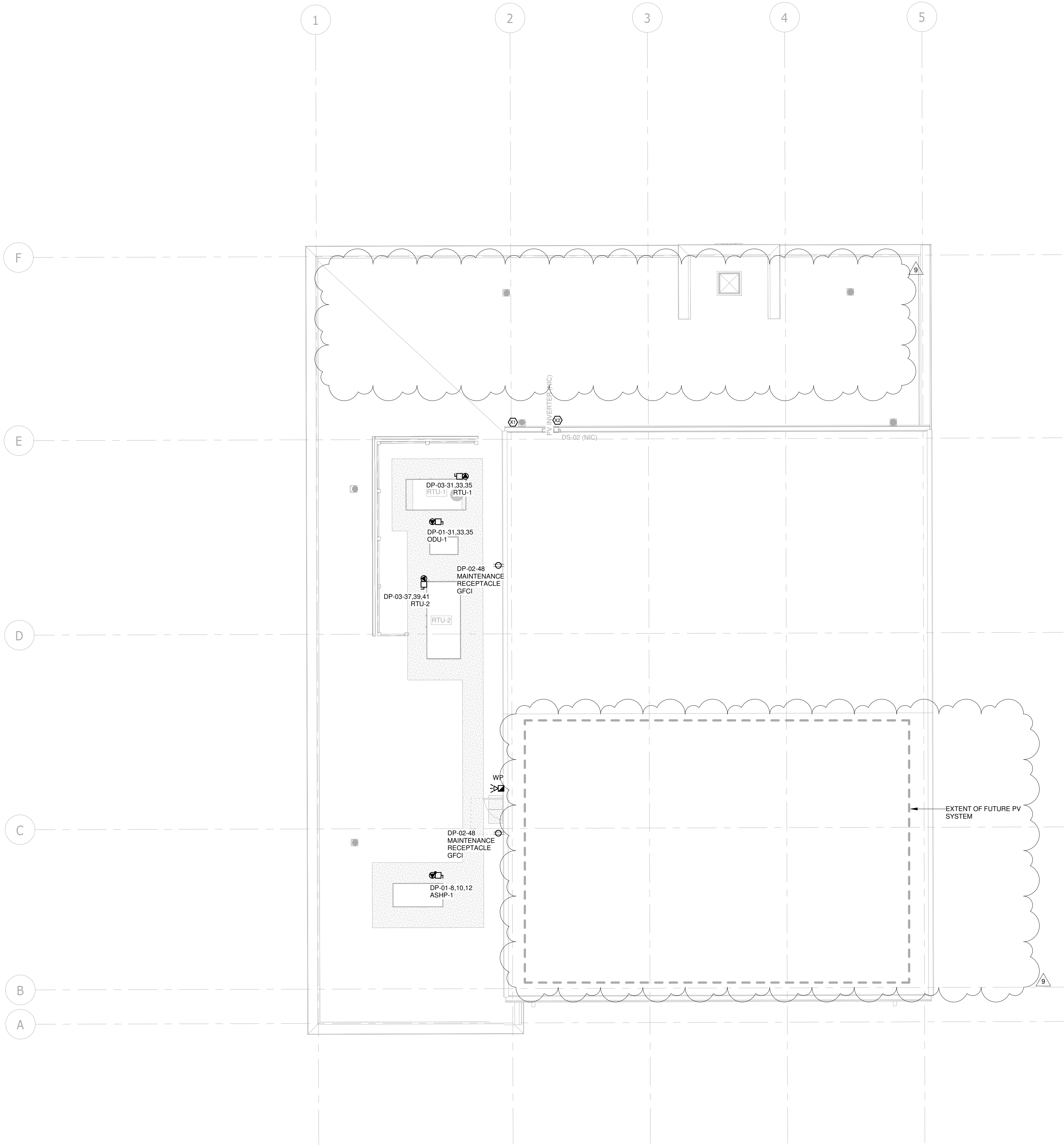
Drawing

No.
E-300



ELECTRICAL ROOM - MEZZANINE LEVEL
SCALE: 1: 50

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Autodesk Docs://2402 - YRP Helicopter Hangar/TT-24-005-YRP-QCG ME Model_P24.rvt



KEYNOTE LEGEND	
Key Value	Keynote Text
X1	INSTALL 1 INCH CONDUIT FOR ANTENNA SYSTEM (CONFIRM CONDUIT SIZE AND LOCATION WITH OWNER PRIOR TO INSTALLATION)
X2	INSTALL CONDUIT FOR FUTURE PV SYSTEM.

GENERAL NOTE:
ALL ROOF MOUNTED EQUIPMENT TO BE FED DIRECTLY FROM BELOW.
NO CONDUIT TO BE RUN ALONG ROOF WHERE CAN BE AVOIDED.
CONFIRM WITH ARCHITECT ALL CONDUIT INSTALLATIONS WHICH WILL BE EXPOSED PRIOR TO INSTALLATION.

PARKIN

Parkin Architects Limited
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Key
Plan

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Issues

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Checked by: AO
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Project No: TT-24-005
Scale: 1 : 100

Sheet
Title:

POWER AND SYSTEMS
NEW WORK - ROOF
PLAN

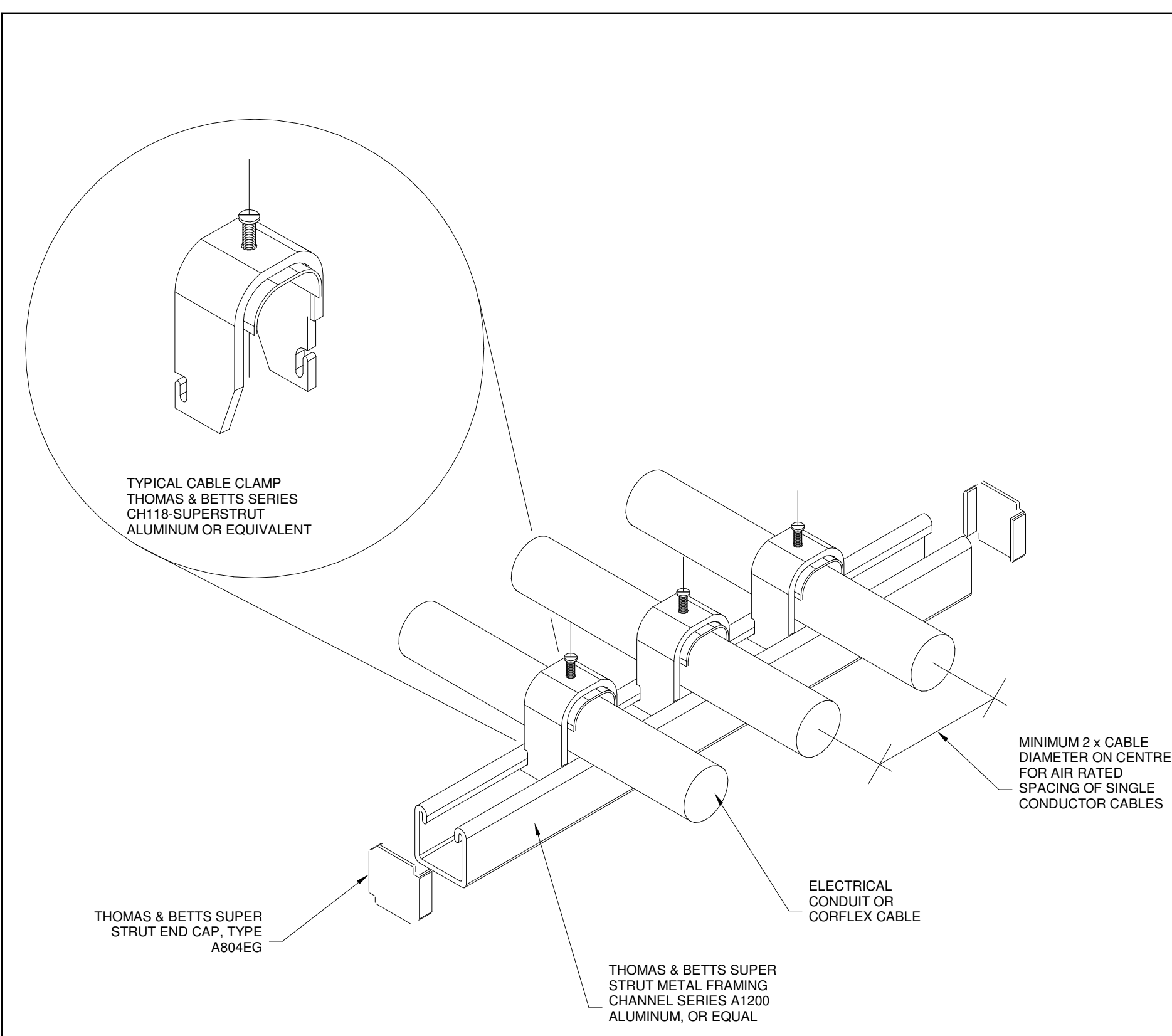
Drawing
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E-301

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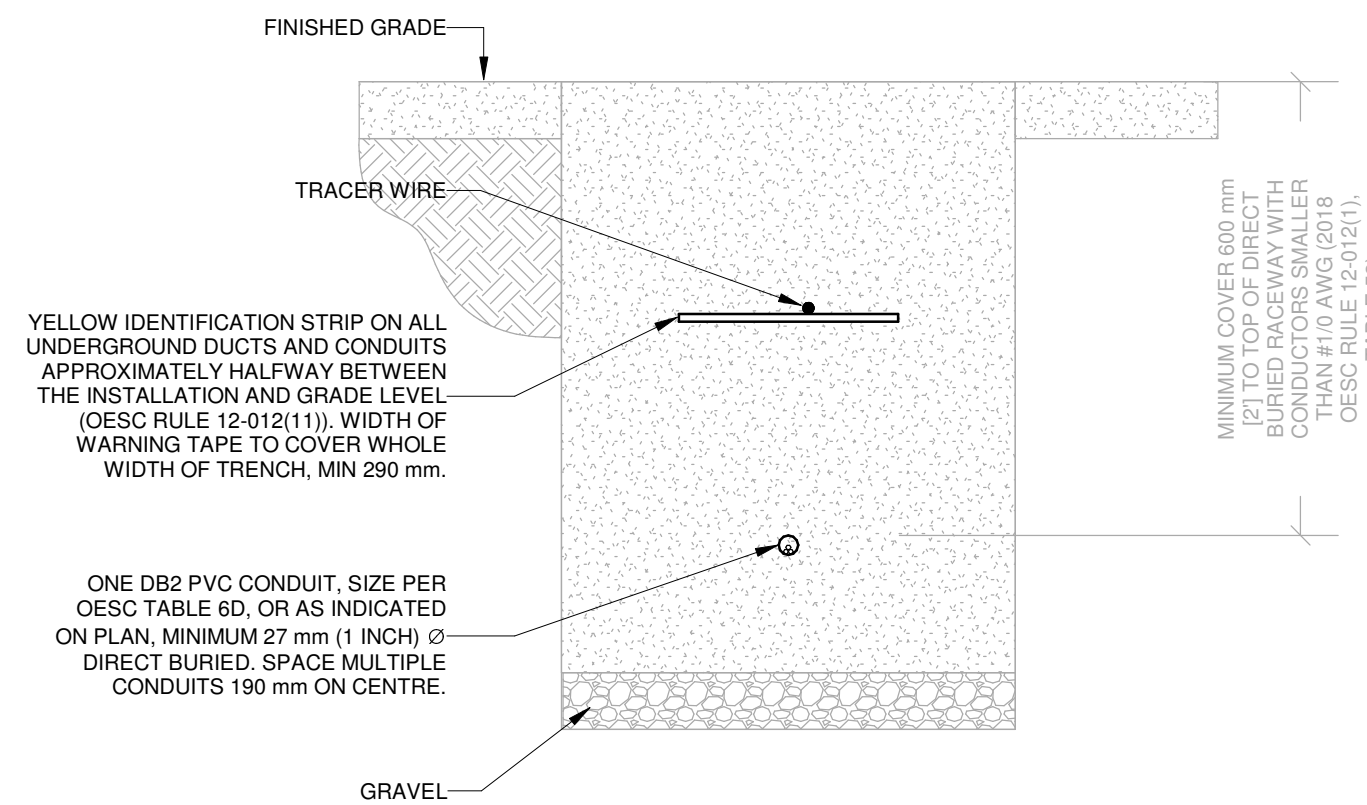
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Key Plan



Strut Channel Suspension for Conduit and Cable

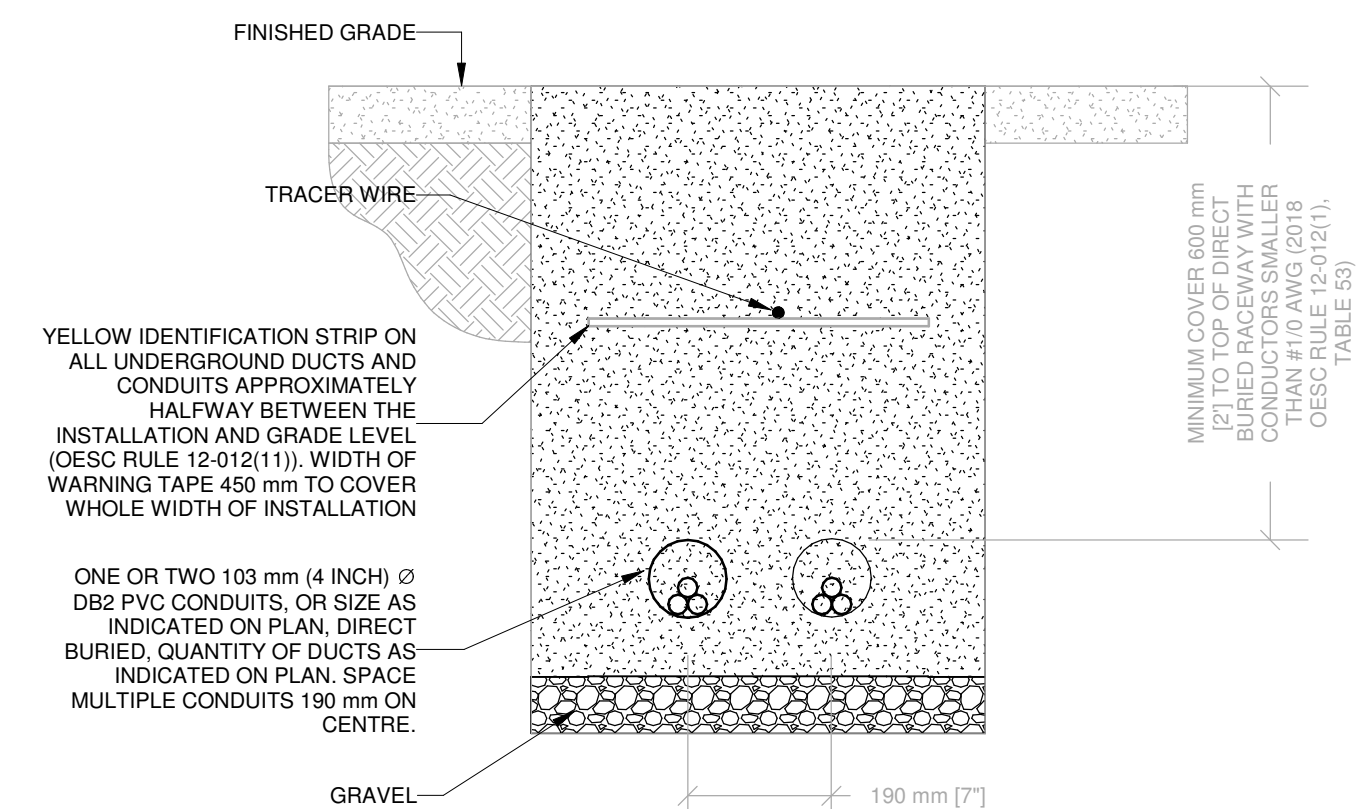
SCALE: 1 : 1



DIRECT BURIED RACEWAY SECTION, 750 V OR LESS

NOTES:

1. METRIC DIMENSIONS GOVERN.
2. DIRECT BURIED RACEWAY DUCTS TO BE IN COMPLIANCE WITH 2018 ENTABRIO ELECTRICAL SAFETY CODE (OESC), TABLE 53. MINIMUM COVER DEPTH MAY BE REDUCED BASED ON CRITERIA DESCRIBED IN TABLE 53.
3. DIRECT BURIED RACEWAY DUCTS TO BE INSPECTED PRIOR BACKFILL. COORDINATE WITH AUTHORITY HAVING JURISDICTION (ESA) AND RECEIVE ALL NECESSARY APPROVALS.
4. THIS DETAIL DOES NOT APPLY WHERE CONDUCTOR SIZE IS #1/0 OR GREATER IN A DIRECT BURIED RACEWAY. PROVIDE AN AMPACITY CALCULATION IN ACCORDANCE WITH IEEE 835.



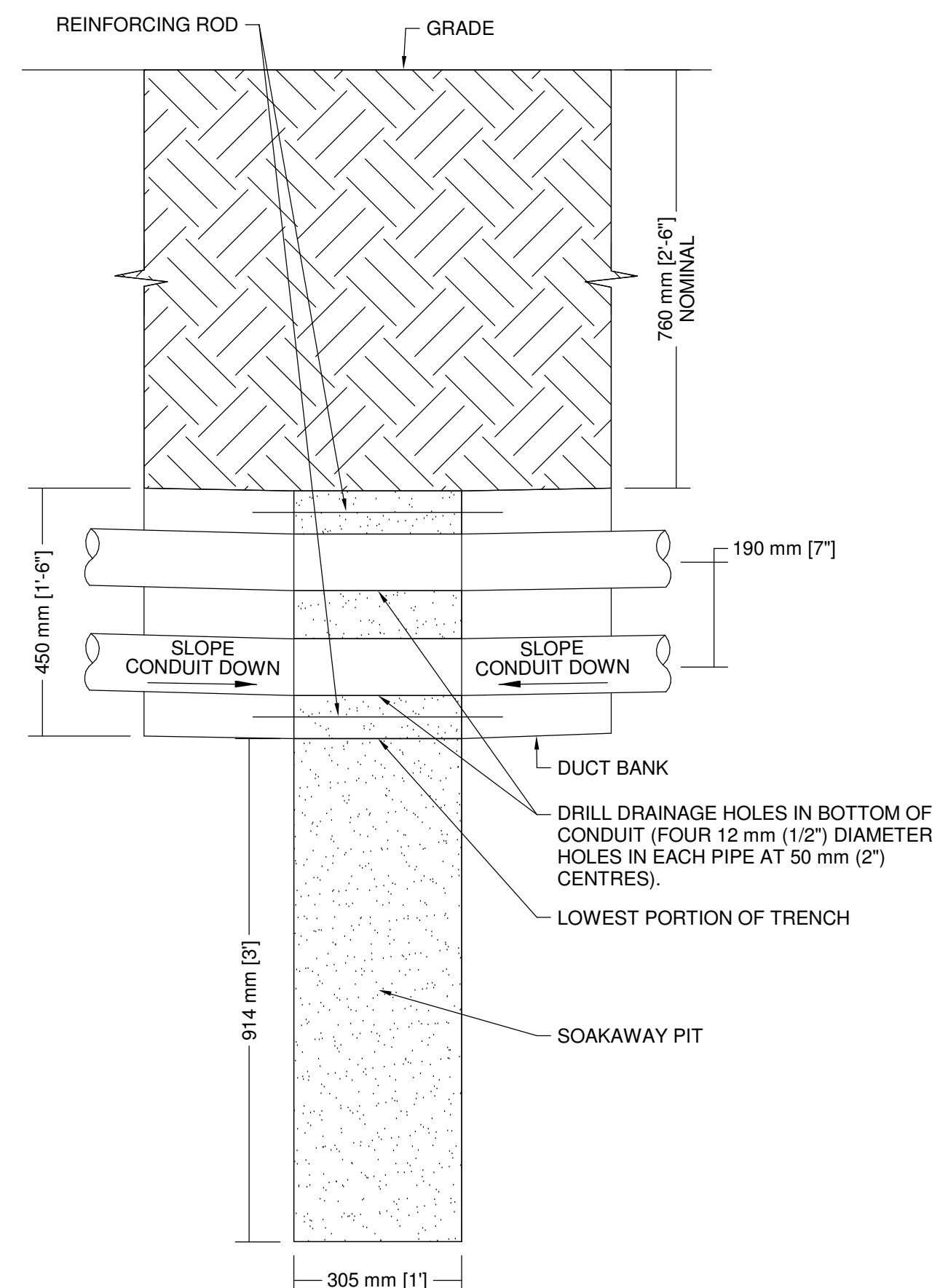
DIRECT BURIED RACEWAY SECTION, 750 V OR LESS

NOTES:

1. METRIC DIMENSIONS GOVERN.
2. DIRECT BURIED RACEWAY DUCTS TO BE IN COMPLIANCE WITH 2018 ONTARIO ELECTRICAL SAFETY CODE (OESC), TABLE 53. MINIMUM COVER DEPTH MAY BE REDUCED BASED ON CRITERIA DESCRIBED IN TABLE 53.
3. DIRECT BURIED RACEWAY DUCTS TO BE INSPECTED PRIOR BACKFILL. COORDINATE WITH AUTHORITY HAVING JURISDICTION (ESA) AND RECEIVE ALL NECESSARY APPROVALS.
4. THIS DETAIL DOES NOT APPLY WHERE CONDUCTOR SIZE IS #10 OR GREATER IN A DIRECT BURIED RACEWAY. PROVIDE AN AMPACITY CALCULATION IN ACCORDANCE WITH IEEE 835.

ELECTRICAL ENERGY EFFICIENCY NOTES FOR PERMIT (ONTARIO BUILDING CODE SB-10)

ITEM	DESCRIPTION	CODE REFERENCE	SPECIFICATION REFERENCE
1A.	FEEDER CONDUCTORS TO BE SIZED FOR MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD.	QBC SB-10-2017, ASHRAE 90.1-2013, 8.4.1.	26 05 19
1B.	BRANCH CIRCUIT CONDUCTORS TO BE SIZED FOR MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD.	QBC SB-10-2017, ASHRAE 90.1-2013, 8.4.1.	26 05 19
2.	50% RECEPTACLE CONTROLS IN CONFERENCE ROOMS, COPY ROOMS, BREAK ROOMS, CLASSROOMS, AND INDIVIDUAL WORKSTATIONS.	QBC SB-10-2017, ASHRAE 90.1-2013, 8.4.2.	26 09 23
3.	MEASUREMENT DEVICES ROUGHED IN TO MONITOR THE ELECTRICAL ENERGY USE FOR EACH OF THE FOLLOWING UNLESS EXEMPT: A. TOTAL ELECTRICAL ENERGY; B. HVAC; C. INTERIOR LIGHTING; D. EXTERIOR LIGHTING; E. RECEPTACLE CIRCUITS.	QBC SB-10-2017, ASHRAE 90.1-2013, 8.4.3.	26 27 13
4.	NEW LOW-VOLTAGE TRANSFORMERS TO MEET THE NOMINAL EFFICIENCIES SHOWN IN ASHRAE 90.1-2013, TABLE 8.4.4. UNLESS EXEMPT	QBC SB-10-2017, ASHRAE 90.1-2013, 8.4.4.	26 22 13
5.	PROVIDE LIGHTING CONTROL FUNCTIONS FOR EACH SPACE IN THE BUILDING PER PER ASHRAE 90.1-2013 TABLE 9.8.1. ASHRAE 90.1-2013 EXEMPTIONS: -NORMALLY OFF EMERGENCY LIGHTING -DWELLING UNITS -LIFE SAFETY OR OTHER ORDINANCE	QBC SB-10-2017, ASHRAE 90.1-2013, 9.4.1.1.	26 09 23
5.1.	SPACES PROVIDED WITH READILY ACCESSIBLE LOCAL CONTROLS.	QBC SB-10-2017, ASHRAE 90.1-2017, 9.4.1.1.A.	26 09 23
5.2.	MAXIMUM OCCUPANCY SENSOR TIMEOUT 20 MINUTES.	QBC SB-10-2017, ASHRAE 90.1-2013, 9.4.1.1.G, ASHRAE 90.1-2013, 9.4.1.1.H.	26 09 23
6.1	PARKING GARAGE LIGHTING TO BE PROVIDED WITH AUTOMATIC CONTROLS PER ASHRAE 90.1-2017 SECTION 9.4.1.2.	QBC SB-10-2017, ASHRAE 90.1-2013, 9.4.1.2.	
6.2	PARKING GARAGE LIGHTING TO AUTOMATICALLY REDUCE LIGHTING POWER BY AT LEAST 30% BASED ON OCCUPANCY	QBC SB-10-2017, ASHRAE 90.1-2013, 9.4.1.2.	
6.3	PARKING GARAGE DAYLIGHT TRANSITION ZONE TO BE ON A SEPARATE SCHEDULE.	QBC SB-10-2017, ASHRAE 90.1-2013, 9.4.1.2.	
6.4	PARKING GARAGE LUMINAIRES TO BE PROVIDED WITH DAYLIGHT HARVESTING, IF NET OPENING-TO WALL RATIO IS GREATER THAN 40% UNLESS EXEMPT.	QBC SB-10-2017, ASHRAE 90.1-2013, 9.4.1.2.	
7.	PROVIDE ADDITIONAL CONTROLS FOR SPECIAL APPLICATIONS LISTED ASHRAE 90.1 SECTION 9.4.1.3.	QBC SB-10-2017, ASHRAE 90.1-2013, 9.4.1.3.	26 09 23
8.	INTERIOR LIGHTING POWER COMPLIES WITH ASHRAE 90.1-2013 9.2.2.3 AS MODIFIED BY SB-10.	QBC SB-10-2017, ASHRAE 90.1-2013, 9.2.2.3.	26 51 00
9.1	PROVIDE A PHOTOSENSOR FOR AUTOMATIC SHUTOFF OF EXTERIOR LIGHTS WHEN AVAILABLE DAYLIGHT IS SUFFICIENT.	QBC SB-10-2017, ASHRAE 90.1-2013, 9.4.1.4.	26 09 23
9.2	PROVIDE A SHUTOFF FOR LANDSCAPE AND FACADE LIGHTING BETWEEN THE HOURS OF MIDNIGHT AND 6:00 A.M.	QBC SB-10-2017, ASHRAE 90.1-2013, 9.4.1.4.	26 09 26
9.3	PROVIDE CONTROL TO REDUCE ILLUMINATED SIGNAGE POWER BY AT LEAST 30% BETWEEN MIDNIGHT AND 6:00 A.M.	QBC SB-10-2017, ASHRAE 90.1-2013, 9.4.1.4.	26 09 26
10.	EXTERIOR LIGHTING POWER COMPLIES WITH ASHRAE 90.1-2013 9.4.2. AS MODIFIED BY SB-10.	QBC SB-10-2017, ASHRAE 90.1-2013, 9.4.2.	26 53 00
11.	LIGHTING CONTROLS MANUFACTURER'S REPRESENTATIVE TO PROVIDE FUNCTIONAL TESTING AND REPORT IN ACCORDANCE WITH ASHRAE 90.1-2013.	QBC SB-10, ASHRAE 90.1-2010, 9.4.4.	26 09 23



Duct Bank Soakaway Pit

SCALE: 1 : 10

[illegible]

Issues

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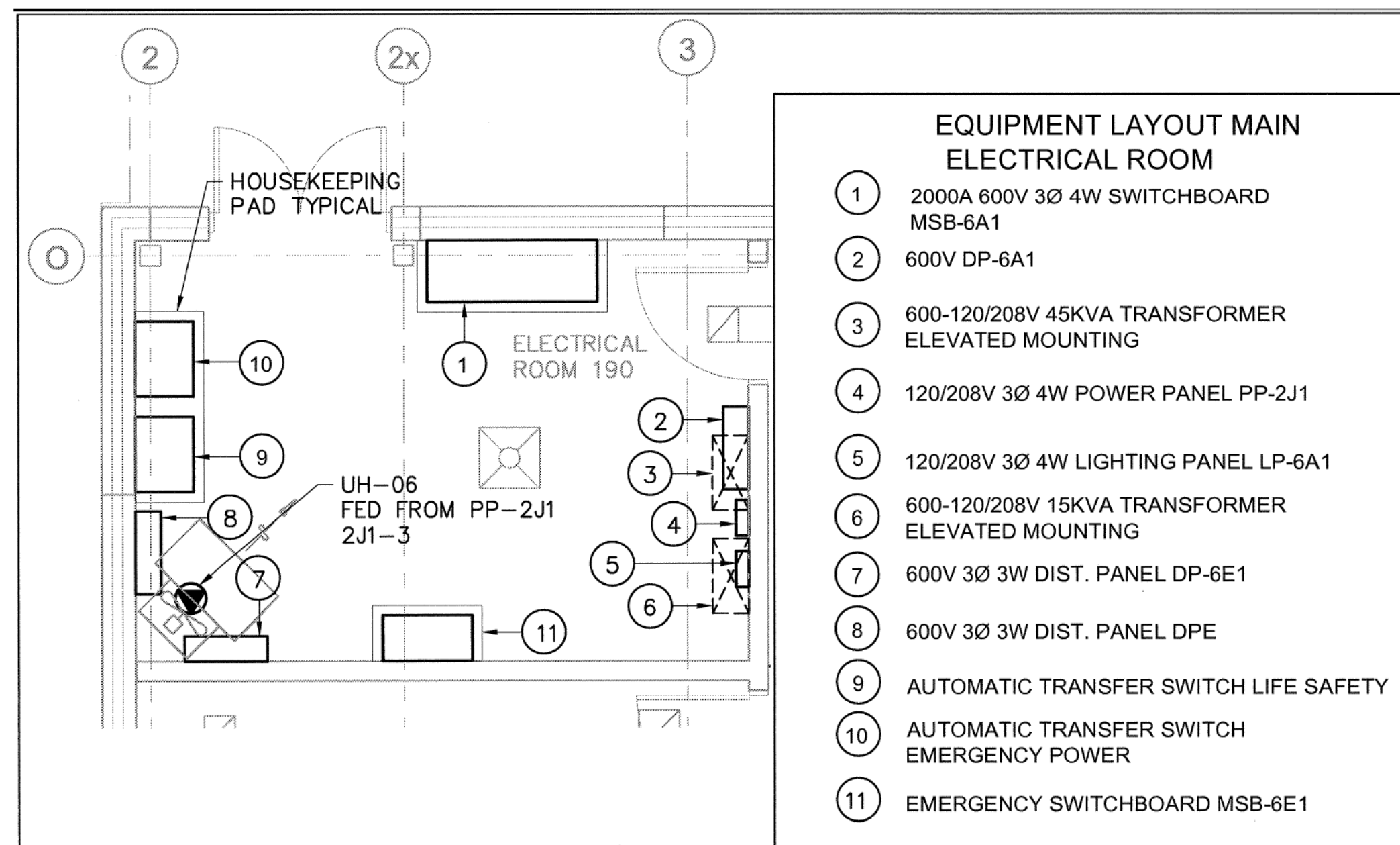
Do not scale drawings

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Sheet
Title:

ELECTRICAL DETAILS

Drawing
No. **E-803**

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Autodesk Docs://2402 - YRP Helicopter Hangar/TT-24-005-YRP-QCG ME Model_P24.rvt

Branch Panel: DP-01															
Location: Room 129					Volts: 600V					A.I.C. Rating: 42 kA					
Supply From:					Phases: 3					Mains Type:					
Mounting: SURFACE					Wires: 3					Mains Rating: 400 A					
Enclosure: NEMA 3R										MCB Rating: 100 A					
Notes:															
CKT	Circuit Description	QTY	Trip	Poles	A		B		C		Poles	Trip	QTY	Circuit Description	CKT
1					0 VA	400 VA									2
3	SURGE PROTECTION DEVICE	--	60 A	3			0 VA	400 VA			3	15 A	1	P1-R	4
5									0 VA	400 VA					6
7					0 VA	24333...									8
9	RESERVED SPACE FOR FUTURE PV INVERTER SYSTEM	--	0 A	3			0 VA	24333...			3	125 A	1	AIR SOURCE HEAT PUMP	10
11									0 VA	24333...					12
13					0 VA	400 VA									14
15	RESERVED SPACE FOR FUTURE EV CHARGING	--	0 A	3			0 VA	400 VA			3	15 A	1	P-5R	16
17									0 VA	400 VA					18
19					400 VA	400 VA									20
21	P-2R	1	25 A	3			400 VA	400 VA			3	25 A	1	P-2	22
23									400 VA	400 VA					24
25					400 VA	167 VA									26
27	P-4	1	15 A	3			400 VA	167 VA			3	20 A	1	CRANE HOIST POWER	28
29									400 VA	167 VA					30
31					7433 VA	400 VA									32
33	ODU-1	1	30 A	3			7433 VA	400 VA			3	30 A	1	HANGAR BIFOLD DOOR CONTROLLER	34
35									7433 VA	400 VA					36
37					400 VA	400 VA									38
39	P-5	1	15 A	3			400 VA	400 VA			3	15 A	1	P-1	40
41									400 VA	400 VA					42
43					400 VA										44
45	P-3	1	15 A	3			400 VA								46
47									400 VA						48
49															50
51															52
53															54
55															56
57															58
59															60
Total Load:					35533 VA		35533 VA		35533 VA						
Total Amps:					103 A		103 A		103 A						
Legend:															
Load Classification			Connected Load			Demand Factor			Estimated Demand			Panel Totals			
Other			106600 VA			100.00%			106600 VA						
												Total Conn. Load: 106600 VA			
												Total Est. Demand: 106600 VA			
												Total Conn.: 103 A			
												Total Est. Demand: 103 A			
Notes:															

Branch Panel: DP-03															
Location: Room 129					Volts: 120/208 Wye					A.I.C. Rating: 22 kA					
Supply From:					Phases: 3					Mains Type:					
Mounting: Surface					Wires: 4					Mains Rating: 400 A					
Enclosure: NEMA 3R										MCB Rating: 250 A					
Notes:															
CKT	Circuit Description	QTY	Trip	Poles	A	B	C	A	B	C	Poles	Trip	QTY	Circuit Description	CKT
1	R: WASHER	1	15 A	1	180 VA			400 VA			1	30 A	1	TLWH-1	2
3	EF-2	1	15 A	1		700 VA									4
5	TLWH-4	1	30 A	1			400 VA			2496 VA	2	30 A	1	R: DRYER	6
7	METERING CABINET	1	15 A	1	500 VA			2496 VA							8
9	ODU-2	1	20 A	2		200 VA		200 VA		200 VA	2	50 A	1	TLWH-2	10
11							200 VA			200 VA					12
13	FUEL TANK	1	15 A	2	250 VA			200 VA			2	50 A	1	TLWH-5	14
15						250 VA			200 VA						16
17							12083 VA			200 VA	2	60 A	1	TLWH-3	18
19	DP-02	1	225 A	3	9676 VA			200 VA			1	15 A	6	UH-1 TO UH-6	20
21						12191 VA			1296 VA						22
23	EF-1	1	15 A	1	233 VA			700 VA			3	25 A	1	AIR COMPRESSOR	24
25								233 VA							26
27	OTHER	1	20 A	3		233 VA			233 VA						28
29							233 VA			167 VA					30
31					167 VA			167 VA			3	20 A	1	GENERATOR ENCLOSURE PANEL	32
33	RTU-1	1	50 A	3		167 VA			167 VA						34
35							167 VA			0 VA	1	15 A	--	HELIPAD LIGHTING CONTROLLER	36
37					167 VA										38
39	RTU-2	1	40 A	3		167 VA									40
41							167 VA								42
Total Load:					14869 VA		16000 VA		17246 VA						
Total Amps:					124 A		135 A		145 A						
Legend:															
Load Classification				Connected Load			Demand Factor			Estimated Demand			Panel Totals		
Other				25208 VA			100.00%			25208 VA			Total Conn. Load: 48107 VA		
Spare				500 VA			100.00%			500 VA			Total Est. Demand: 48230 VA		
EMERGENCY BATTERY PACK				100 VA			100.00%			100 VA			Total Conn.: 134 A		
Lighting - Dwelling Unit				2044 VA			100.00%			2044 VA			Total Est. Demand: 134 A		
Receptacle				15792 VA			100.00%			15792 VA					
Notes:															

Branch Panel: DP-02															
Location: MECHANICAL / ELECTRICAL...						Volts: 120/208 Wye						A.I.C. Rating: 22 kA			
Supply From: DP-03						Phases: 3						Mains Type:			
Mounting: SURFACE						Wires: 4						Mains Rating: 225 A			
Enclosure: NEMA 3R												MCB Rating: 225 A			
Notes:															
CKT	Circuit Description	QTY	Trip	Pole s	A		B		C		Pole s	Trip	QTY	Circuit Description	CKT
1	EMERGENCY BATTERY PACK	2	15 A	1	100 VA	360 VA					1	15 A	2	R: CONFERENCE ROOM	2
3	PARKING & SIGNAGE LIGHTING	14	15 A	1			256 VA	360 VA			1	15 A	2	R: FITNESS	4
5	EXIT SIGNS	10	20 A	1					275 VA	430 VA	1	20 A	2	R: CONFERENCE ROOM FLOOR...	6
7	AVIATION LIGHTING	1	15 A	1	500 VA	500 VA					1	15 A	1	FACP	8
9	R: CONFERENCE ROOM	3	15 A	1			540 VA	720 VA			1	15 A	4	R: GENERAL OFFICE	10
11	R: OFFICE 1	3	15 A	1					540 VA	720 VA	1	15 A	4	R: OFFICE 2	12
13	LIGHTING	35	15 A	1	846 VA	500 VA					1	20 A	1	FACP	14
15								1200...			1	25 A	1	EF-4	16
17	WINDSOCK AND...	2	15 A	1					1000...	1176...	1	15 A	1	B-1	18
19	R: HANGAR	8	20 A	1	1440...	1500...					1	15 A	3	AUTOMATIC DOOR OPERATORS...	20
21	LIGHTING	16	15 A	1			374 VA	180 VA			1	20 A	1	RECEPTACLE	22
23	B-2	1	15 A	1					1176...	1061...	1	15 A	15	LIGHTING	24
25	R: RPAS	1	20 A	1	180 VA	1500...					2	15 A	11	FCU-1 TO FCU-11	26
27							500 VA	1500...							28
29	GROUND POWER UNIT	2	20 A	2					500 VA	180 VA	1	20 A	1	R: MICROWAVE	30
31	R: KITCHEN COUNTER	1	20 A	1	180 VA	180 VA					1	15 A	1	R: FRIDGE	32
33	R: PRINTER	1	15 A	1			180 VA	180 VA			1	15 A	1	R: GARAGE DOOR	34
35	R: QUARTERMASTER	1	15 A	1					180 VA	180 VA	1	15 A	1	R: GARAGE DOOR	36
37	R: DISHWASHER	1	15 A	1	180 VA	360 VA					1	15 A	2	R: TV SECURITY DISPLAY	38
39	R: IT ROOM	1	15 A	1			180 VA	360 VA			1	15 A	2	R: VEHICLE BAY	40
41	R: FITNESS TV	1	20 A	1					180 VA	1200...	1	15 A	1	TSP-1	42
43	R: MECHANICAL ROOM	2	15 A	1	360 VA	360 VA					1	15 A	1	R: IT ROOM	44
45	R: MECHANICS OFFICE	2	15 A	1			360 VA	360 VA			1	15 A	2	R: LOUNGE AND TV	46
47	R: RADIO	2	15 A	1					360 VA	360 VA	1	20 A	2	R: MAINTENANCE	48
49	R: FITNESS	2	15 A	1	360 VA	490 VA					1	20 A	14	LIGHTING - EXTERIOR	50
51	R: GENERAL OFFICE	2	15 A	1			360 VA	500 VA			1	15 A	1	FAAP	52
53	R: WASHROOM	2	15 A	1					360 VA	1980...	1	20 A	12	LIGHTING - DWELLING UNIT	54
55	R: UNIVERSAL WASHROOM/	--	15 A	1	500 VA	167 VA					3	30 A	1	IT RACK	56
57							167 VA								58
59										167 VA					60
61	LIGHTING	9	15 A	1	1071...	200 VA					2	15 A	1	EBBH-1	62
63	EF-3	1	15 A	1			1200...	200 VA							64
65									250 VA						66
67	GATE POWER	1	20 A	2	250 VA										68
69															70
71															72
73															74
75															76
77															78
79															80
81															82
83															84
					Total...	12083 VA	9676 VA		12191 VA						
					Total...	104 A	81 A		105 A						
Legend:															
Load Classification					Connected Load		Demand Factor		Estimated Demand		Panel Totals				
Other					16212 VA		100.00%		16212 VA						
Spare					500 VA		100.00%		500 VA		Total Conn. Load: 33941 VA				
EMERGENCY BATTERY PACK					100 VA		100.00%		100 VA		Total Est. Demand: 34064 VA				
Lighting - Dwelling Unit					2044 VA		100.00%		2044 VA		Total Conn.: 94 A				
Receptacle					10620 VA		100.00%		10620 VA		Total Est. Demand: 95 A				
Notes:															