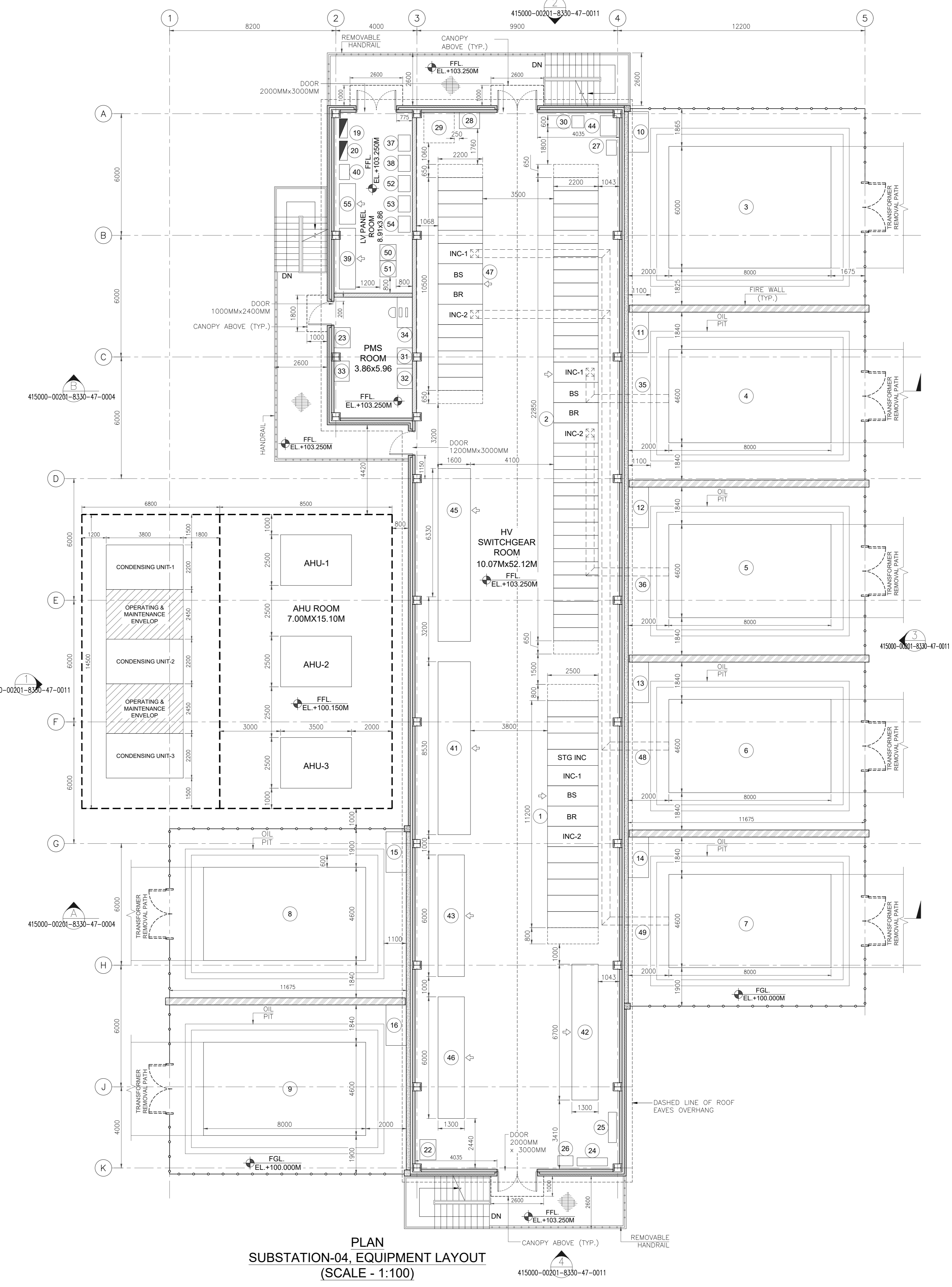
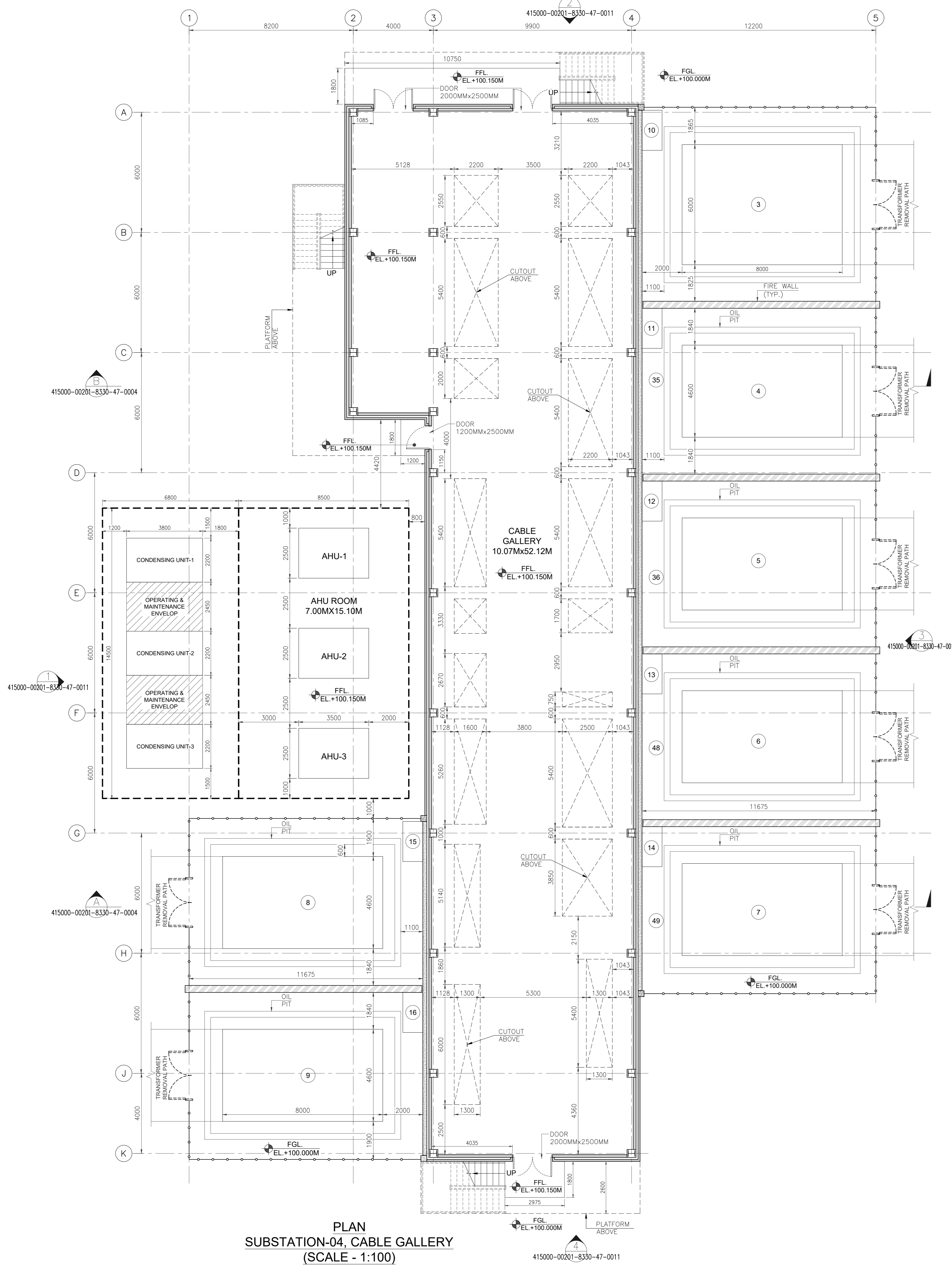
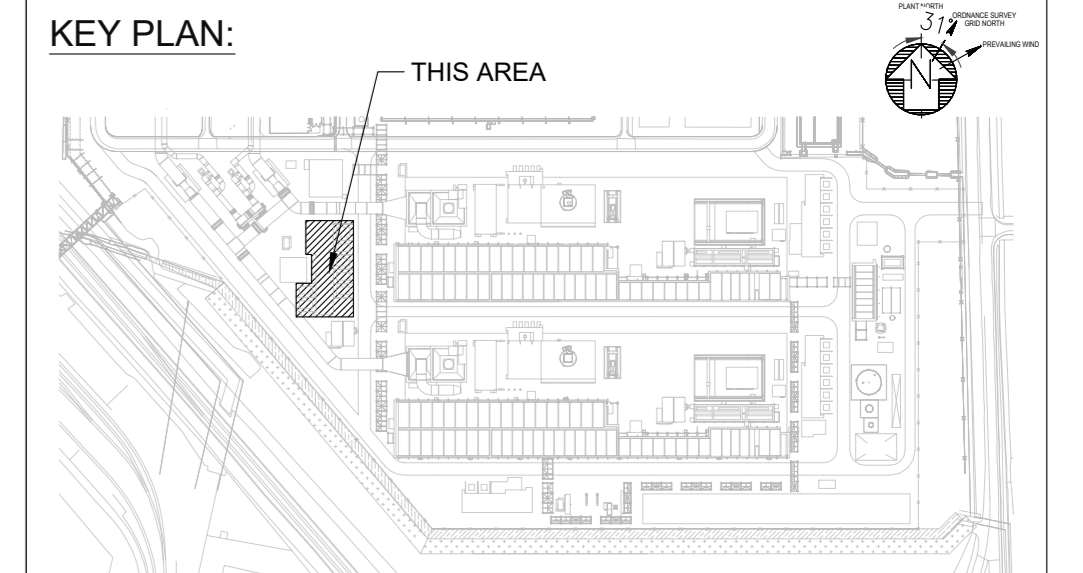


ELECTRICAL EQUIPMENT LIST											
SR NO	EQUIPMENT TAG	DESCRIPTION	DIMENSIONS (mm)	SR NO	EQUIPMENT TAG	DESCRIPTION	DIMENSIONS (mm)	SR NO	EQUIPMENT TAG	DESCRIPTION	DIMENSIONS (mm)
1	04-SW2-01	33KV SWITCHGEAR	11200 x 2500 x 2350	20	TBD	SUB LIGHTING DISTRIBUTION BOARD	950 x 400 x 1500	38	TBD	SUB DC UPS DB	800 x 600 x 800
2	04-SW4-01	6.6 kV SWITCHGEAR	2800 x 2200 x 2350	31	TBD	SPARE	-	39	04-HV-01	HVAC POWER DISTRIBUTION BOARD	3000 x 800 x 2300
3	04-TR3-02	33/11 kV, 90 MVA, POWER TRANSFORMER	8000 x 6000 x 6000	22	TBD	FIBRE OPTIC PATCH PANEL-1	1000 x 800 x 2000	40	TBD	VEDA CABINET-3	-
4	04-TR4-01A	33/6.6 kV, 40 MVA, POWER TRANSFORMER	8000 x 4800 x 5000	23	TBD	FIBRE OPTIC PATCH PANEL-2	1000 x 800 x 2000	41	04-VS4-01	VFD FOR GT FLUE GAS BLOWER (70-B-1001)	8500 x 1600 x 2750
5	04-TR4-01B	33/6.6 kV, 40 MVA, POWER TRANSFORMER	8000 x 4800 x 5000	24	TBD	ANNUNCIATOR PANEL	1500 x 600 x 1000	42	04-SW-02	VFD FOR MW COMPRESSOR (70-B-1003)	6700 x 1300 x 2815
6	04-TR4-02A	33/6.6 kV, 40 MVA, POWER TRANSFORMER	8000 x 4800 x 5000	25	TBD	INTERPOSING RELAY PANEL	1500 x 400 x 2000	43	04-VS4-03	VFD FOR AUX. BLOWER FLUE GAS BLOWER (70-B-1002)	6000 x 1300 x 2815
7	04-TR4-02B	33/6.6 kV, 40 MVA, POWER TRANSFORMER	8000 x 4800 x 5000	26	TBD	VEDA CABINET-1	-	44	TBD	FIBRE OPTIC PATCH PANEL-3	1000 x 800 x 2000
8	04-TR4-01A	33/11 kV, 35 MVA, POWER TRANSFORMER	8000 x 4800 x 5000	27	TBD	VEDA CABINET-2	-	45	04-VS4-04	VFD FOR GT FLUE GAS BLOWER (70-B-2001)	8500 x 1600 x 2750
9	04-TR3-01B	33/11 kV, 35 MVA, POWER TRANSFORMER	8000 x 4800 x 5000	28	TBD	STG CONTROL PANEL	1000 x 800 x 2000	46	04-VS4-05	VFD FOR AUX. BLOWER FLUE GAS BLOWER (70-B-2002)	6000 x 1300 x 2815
10	04-GR4-02	NER FOR 80 MVA POWER TRANSFORMER	2000 x 1000 x 1500	29	TBD	SPACE RESERVED FOR CIRCUIT BREAKER HOLDING TRUCKS	1500 x 1500	47	04-SW4-02	6.6 kV SWITCHGEAR-2	10500 x 2200 x 2350
11	04-GR4-01A	NER FOR 40 MVA POWER TRANSFORMER	2000 x 1000 x 1500	30	TBD	REMOTE TAP CHANGER CONTROL PANEL	600 x 600 x 1200	48	04-BD4-02A	6.6 kV BUSDUCT	-
12	04-GR4-01B	NER FOR 40 MVA POWER TRANSFORMER	2000 x 1000 x 1500	31	TBD	FILING CABINET (DRAWINGS STORAGE)	-	49	04-BD4-02B	6.6 kV BUSDUCT	-
13	04-GR4-02A	NER FOR 40 MVA POWER TRANSFORMER	2000 x 1000 x 1500	32	TBD	STORAGE RACKS FOR PPE	-	50	TBD	TELECOM CABINET-1	800 x 800 x 2100
14	04-GR4-02B	NER FOR 40 MVA POWER TRANSFORMER	2000 x 1000 x 1500	33	TBD	PMS STORAGE CABINET	-	51	TBD	TELECOM CABINET-2	800 x 800 x 2100
15	04-GR3-01A	NER FOR 35 MVA POWER TRANSFORMER	2000 x 1000 x 1500	34	TBD	PMS WORK STATION	-	52	TBD	SPACE RESERVED FOR STG PACKAGE PANEL	800 x 800 x 800
16	04-GR3-01B	NER FOR 35 MVA POWER TRANSFORMER	2000 x 1000 x 1500	35	TBD	6.6 kV BUSDUCT	-	53	TBD	SPACE RESERVED FOR STG PACKAGE PANEL	800 x 600 x 800
17	-	SPARE	-	36	04-BD4-01A	6.6 kV BUSDUCT	-	54	TBD	SPACE RESERVED FOR STG PACKAGE PANEL	800 x 600 x 800
18	-	SPARE	-	37	04-BD4-01B	6.6 kV BUSDUCT	-	55	TBD	SPACE RESERVED FOR STG PACKAGE PANEL	2000 x 800 x 2300
19	TBD	SMALL POWER DISTRIBUTION BOARD	950 x 400 x 1500	37	TBD	SUB AC UPS DB	800 x 600 x 800				

- NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETRES AND ELEVATIONS IN METRES UNLESS NOTED OTHERWISE.
  - EL +100.000 CORRESPONDS TO FINISH GROUND LEVEL AT RESPECTIVE PLOT PLAN DRAWING NUMBER 415000-00201-8330-01-0002.
  - FOR BUILDING LOCATION AND SITE DATUM REFER TO SITE PLAN DRAWING NUMBER 415000-00201-8330-01-0002.
  - HANDRAIL SHALL BE HOT DIP GALVANIZED (UNO).
  - WALL PENETRATIONS SHALL BE BASED ON ELECTRICAL / INSTRUMENTS / HVAC AND P&S LAYOUT.
  - ALL STRUCTURE ARRANGEMENT SHOWN ARE INDICATIVE. CONTRACTOR SHALL ENSURE DESIGN AND CONSTRUCTION OF BUILDING IN ACCORDANCE WITH STRUCTURAL DRAWINGS.
  - DOOR MANUFACTURER SHALL BE RESPONSIBLE FOR ALL DOORS AND FRAMES, INCLUDING, BUT NOT LIMITED TO IRONMONGERY, FIXING TRACK GUIDES AND SEALANTS.
  - FOR ELECTRICAL EQUIPMENT DRAWINGS REFER TO DRAWING NO. 415000-00201-8330-79-0001.
  - FIRE WALLS SHALL BE PROVIDED BETWEEN ADJACENT EXTERNAL ELECTRICAL EQUIPMENT I.E. TRANSFORMER WALLS BETWEEN TRANSFORMER AND THE SUBSTATION WALL ALONG THE TRANSFORMER LINE UP SHALL BE 2 HOURS FIRE RATED.
  - OIL FILLED TRANSFORMERS SHALL BE MOUNTED ON CONCRETE FOUNDATION AND SURROUNDED BY PEBBLE FILLED OIL CONTAINMENT BASIN.
  - DOOR DIMENSIONS AT EQUIPMENT ENTRY SHALL BE 2.5M (W) x 3.5M (H) FOR DOUBLE DOOR AND 1M (W) x 3.5M (H) FOR SINGLE DOOR. (DOUBLE LEAF TYPE OR ROLLING SHUTTER).
  - A SUNSHADE SHALL BE PROVIDED OVER ALL OIL FILLED TRANSFORMERS. SUBSTATION PLATFORM SHALL HAVE REMOVABLE STEEL HANDRAILS TO ALLOW LOADING / UNLOADING OF EQUIPMENT.
  - EACH OF THE TRANSFORMER BAYS SHALL BE PROVIDED WITH DOUBLE MESS DOORS SUITABLE FOR TRANSFORMER SIZE.
  - CABLE GALLERY SHALL BE PROVIDED WITH REMOVABLE FENCE AND ENTRY DOORS OF SUITABLE HEIGHT.
  - HVAC SHALL BE OF THE OUTDOOR ROOF MOUNTED TYPE. NUMBER OF UNIT TO BE DETERMINED BY HVAC TEAM.

- LEGEND:**
- FRONT OF SWITCHGEAR/EQUIPMENT
  - FENCE LINE
  - BUS-DUCT BETWEEN TRANSFORMER AND SWITCHBOARD (TYP)
  - EQUIPMENT IDENTIFYING NUMBER
  - SPACE/FUTURE
  - DISTRIBUTION BOARD
  - 350 THK BRICK WALL (FIRE WALL)
  - 200 THK, 2Hrs. FIRE RATED WALL
  - 340 THK CAVITY WALL
  - 200 THK BLOCK WALL
  - UNO UNLESS NOTED OTHERWISE
  - CENTER LINE
- ABBREVIATIONS:**
- INC INCOMER
  - BS BUS SECTION
  - BR BUS RISER
  - STG STEAM TURBINE GENERATOR

- HOLDS:**
- NORTH - EAST CO-ORDINATES.



AD SHT	SCALE	1:100	ENGINEERING AND PERMIT STAMPS (As Required)	CUSTOMER							
<p>SAFETY EQUIPMENT LAYOUT PLOT PLAN          HVAC GENERAL ARRANGEMENT, SUBSTATION 04          EQUIPMENT LAYOUT - SUBSTATION 04          SUBSTATION 04 (30-BD-0701), ELEVATION - 1, 2, 3 &amp; 4          SUBSTATION 04 (30-BD-0701), ROOF LEVEL PLAN &amp; SECTION - A &amp; B</p>											
<p>Worley          energy chemicals resources</p>			<p>WORLEY PROJECT NO.          415000-00201</p>								
REV	DATE	REVISION DESCRIPTION	DRAWN	DRAFT	CHK	DESIGNED	ENG	CHK	APPROVED	CUSTOMER	REF DRAWING No
0	08-02-23	ISSUED FOR DESIGN	RAWK	NAKA	JOSA	SB	PBA				415000-00201-8150-01-0002
B	18-01-23	ISSUED FOR REVIEW	RAWK	NAKA	JOSA	SB	PBA				415000-00201-8340-48-0011
A	10-11-22	ISSUED FOR IDC	RAWK	NAKA	JOSA	PBA	AG				415000-00201-8330-47-0011
											415000-00201-8330-47-0004

DRG TITLE	HZ VPH PCC PROJECT SUBSTATION 04 (30-BD-0701) EQUIPMENT LAYOUT & CABLE GALLERY PLAN
DRG No	415000-00201-8330-47-0003
REV	0