UNDP 主楼2F 辅楼2F办公室改造 UNDP Main 2F /Annex 2F Office Project

设计阶段:施工图专业:机电设计



北京雅地东华建筑工程有限公司

2020年08月

图纸目录/DRAWING LIST

工程名称 UNDP 主楼2F 辅楼2F办公室改造

装修面积/Aera _____

工程编号/Projet Number

UNDP MAIN 2F And ANNEX 2F OFFICE REMODEL

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| erial Number | Figure Number | Map Title | Nappable Unit | t Remarks | Serial Number | Figure Number | Map Ti | tle | Mappable Unit | Remarks | Serial Number | Figure Number | Мар Т | itle | Mappable Uni | it Remark |
| 序号 | 图号 | 图名 | 图幅 | 备注 | 序号 | 图号 | 图 | 名 | 图幅 | 备注 | 序号 | 图号 | 图 | 名 | 图幅 | 备注 |
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adinteriors

Title List Of MEP 机电图纸目

| | MAIN |
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IN BUILDING ANNEX BUILING 2F

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Project no.

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| | | | 电气设计 | 说 明 | |
|-------------|--|--|--|--|---|
| | 一、工建編況: Project Profile | | | 电设备应设置明显标志。Obvious signs should be set up for 1 | fire control distribution equipment |
| | 1 、工程名称: UNDP 主機2P 納機2F办公室改造 Project:UNDP MAIN 2F ANNE | X 2F OFFICE REMODEL | Th | 5、建筑内的电缆井、管道井应在每层楼板处采用不低于楼板耐火板架(e cable well and pipeline well in the building shall be sealed with | |
| | 2 、工程地址, 北京市朝阳区亮马桥河南路2号 Project address:Henan Ros | nd, Liangmaqiao, Chaoyang District, Beijing | | 管道井与房间、走道等相违通的孔骥应采用防火材料封堵。 | ys and other connected pores should be closed with fireproof materia |
| | | main building and 2F of annux building | | 6、消防用电设备应采用专用的供电回路,当建筑内的生产、生活用电 | 波切斯时,应仍能保证消防用电Special power supply circuit should be |
| | A. A. A. CRANT (Principal Control of Million and And Base | | The | 备用消防电源的供电时间和容量,应满足该建筑火灾延续时间内有 | |
| | 4 、本次装修未改变原有防火分区,未影响其它区域安全疏散。 This This rea | novation did not change the original fire zone, and did not affect the | safety evacuation of other areas | power supply time and capacity of the standby fire-fighting power supply time and capacity of the standby fire-fighting power supply (不能) (如何) (如何) (如何) (如何) (如何) (如何) (如何) (如何 | 防电梯等的供电,应在其配电线路的最末一级配电 |
| | 二、设计依据: Design basis 1、《民用建筑电气设计频格》 JGJ 16-2008 | 8、《火灾自动报警系统组件兼容性要求》 GB22134-2008 | | For the power supply of fire-fighting electrical equipment and fi 箱处设置自动切换装置。 | ire-fighting elevators in the fire-fighting control room, fire-figh |
| | Code for electrical design of civil buildings JGJ16-2008 2、《建筑设计防火频范》 GB50016-2014(2018年版) | Fire automatic alarm system components compatibility 9、《清防安全标志 第1部分: 标志》 GB 13495.1-2015 | requirements GB22134-2008 | exhaust air room, automatic switching devices shall be installe 8、消防控制室、消防水泵房、自备发电机房、配电室、防排烟机房以2 | ed in the distribution boxes of the last level of their distribution 及发生火灾时仍需正常工作的消防设备房应设置 |
| | Code for Fire Protection Design of High-rise Civil Buildings (GB50016- 3、 (办公建筑设计标准) JGJ/T 67-2019 | | | The fire control room, fire water pump room, self-provided gener 备用服明,其作业面的最低跟度不应低于正常照明的跟度。 | |
| | Design standards for office buildings JCJ/T 67-2019 4. 《建筑限明设计标准》 GB50034-2013 | Code for Seismic design of building mechanical and el 11、《建筑内部装修设计防火规范》 GB50222-2017 | ectrical Engineering GB50981-2014 | still working in case of fire should be equipped with standby li 9、建筑内设置的消防疏散指示标志和清防应急限明灯具,除应符合本J | |
| | Lighting design standards for buildings GB50034-2013 | Code for fire protection in interior Decoration of bui | ldings GB50222-2017 | In addition to the provisions of this code, the fire evacuation | indication signs and fire emergency lighting lamps installed in |
| | 5、《公共建筑竹館设计構造》(GB 50189-2015 Energy Conservation design standards for public Buildings GB 50189-20 6、(最色違筑评价标准) GB/T 50378-2019 Green building evaluation criteria GB/T 50378-2019 | 12、《清防应急照明和硫軟指示系统技术标准》GB51309-2018 15 Technical Standard for fire emergency lighting and evacua | tion indicating systems GB51309-2018 | (清龄安全标志) GB 13495和 (清防应急原明和疏散推示系统) G of the current national standard "Fire Safety Signs" GB 13495 am | |
| | 7、《火灾自动报警系统设计规范》 GB50116-2013 | | | | |
| | Design specification for automatic fire alarm system GB50116-2013 | | | 六、线缆敷设与接地:Cable laying and grounding 1、照明,动力支线均穿,DG管在模板、墙内喷敷或沿桥架明敷。 | |
| | 三、设计内容: Design content | | L | .ighting, power branch are through THE DG tube in the floor, wall da 2、本工程强弱电损连配线采用JDG钢管,图中除注明外一般照明为FDZC | |
| | 本次设计包括照明、应急照明、疏散、插座及滑韵报警系统。This design inclu | des lighting, emergency lighting, evacuation, socket and fire alarm syst | em | All the conduits are JDG. Unless otherwise specified, WDZC-3x2.5m 捕座如无特殊说明均选用WDZC-BYJ 3x4.0阻燃價芯线 导线穿线情 | |
| | 四、照明及攝座系统: Lighting and socket system 1、照明功率密度LPD值应清足现行国家标准 (建筑照明设计标准) GB50034规定的 | 11-11-11-11-11-11-11-11-11-11-11-11-11- | | 3、不同电压等级的线缆不应穿入同一根保护管内,当合用统一线槽时 | |
| | The LPD value of lighting your density should meet the current value sti 应法用高波节能源明产品,原明系统的功率因数FF≥0.9、 (读:器: :明系数 µ≥0. | pulated in the current national standard "Building Lighting Design Stand | | ables of different voltage classes shall not be threaded into the s | ame root protection tube. When the unified wire slot is used, the |
| | High efficiency and energy saving lighting products should be selected, the light | phing system power factor PF \geq 0.9, ballast lumen coefficient $\mu\geq$ 0.9 | 5, wave peak coefficient CF \leq 1.7 The str | 4、清防配电线路应满足火灾时连续供电的需求, 建敷时, 应穿管并应 fire protection distribution line shall meet the demand of continuu ucture, and the thickness of protective layer shall not be less that the thickness of protective layer shall not be less that the thickness of the the thickness of the thickness of the thickness of the the thickness of the the thickness of the the thickness of the thickness of the the thickness of the the thickness of the the the the thickness of the | |
| | 办公建筑和其他类型建筑中具有办公用途场所的源明功率密度限值应符合表6.3. The lighting power density limits of office buildings and other types of | buildings with office USES shall comply with the provisions of Table 6.3 | | 5、总线、支线必须采用阻燃电线,所有电线配管均采用金属管,管与 he bus and branch lines must be flame retardant wire, and all the wi | |
| | | 14 of lighting power density for office USBS in office buildings and other types of build 全教和其倫英遊達教中具有力公司途场所開始功率勘定限值 Final Lighting there have light gene Ankity India | inga | 电额使用做到三相平衡。 | |
| | 庆闻表 High for a feature of the featu | the convert value The target | The | 6、全属电缆桥架及其支架和引入或引出的金属电缆导管必须 e metal cable tray and its supports and the metal cable conduit intr | |
| | 위(1)도 RT 연구(1)대 (RT) (2) California (전) California | <u>→ 500 415.0 13.5</u> → 400 49.0 48.0 | (| 接地可靠,且必须符合下列规定: (1) 金属电缆桥架及其支架全台 1) The metal cable tray and its supports shall be connected with th | |
| | Bill Son w | 300 411.0 40.0 | | 桥架同连接板的两端跨接铜芯接地线,接地线截面不小于4mm2。3) The ends of the connecting plates between non-galvanized cable Br: | idges shall be bonded to the ground wire with a steel core with a |
| | 2、溝防应急照明和疏散指示标志采用書电池作备用电源,电池初始容量备用时间 The battery shall be used as the backup power for fire emergency lighting and ev | | battery shall not be less than 90min a | 接板两端应有不少于2个有防松螺帽成防松垫圈的连接固定螺栓。 3) The two ends of the connecting plate between the galvanized cable locknut or lockwasher at each end of the connecting plate. | a tray may not be connected with the ground wire. However, there |
| | 标志灯采用超薄型灯具。应急照明灯和硫散标志灯设不燃材料制作的保护耳 Safety exit lights and evacuation sign lights adopt ultra-thin lamps. Protective c | | | 七、清防报警系统 Fire alarm system | |
| | 3、GB51309-2018, 3. 2. 4规定系统应急启动后,在蓄电池电源供电时的持续工 GB51309 2018.3.2 After the emergency start of the system, the continuous wo | | irements: The | 1、潮防联动控制器应具有切断火灾区域及相关区域的非潮防电源的功能 fire linkage controller shall have the function of cutting off the | |
| | (1) 建筑高度大于100m的民用建筑,不应小于1.5h。(2)医疗建筑、老年 (1)The height of a civil building greater than 100m should not be less than 1.5h. | | with a total floor area of more than it | 消火栓系统动作前切断。消防联动控制器应具有打开就能通道上; is appropriate to cut off the automatic sprinkler system and fire h | |
| | | . (3) 其他建筑,不应少于0. 5h。(3) Other buildings should not be less | than 0.5h | 消防水泵、防烟和持烟风机的控制设备,除应采用联动控制方式。 ning the control door by the access control system on the evacuation | 外,还应在消防控制室设置手动直接控制装置。 |
| | 集中电源蓄电池组和灯具自带蓄电池达到寿命周期后标称的剩余容量应保证》 self-provided battery of the lamps after reaching the life cycle shall ensure that | 改电时间满足本条练(1)款~第(3)款规定The nominal residual capacity of th the discharge time meets the continuous working time stipulated in sub | e central power battery and the | 消防联动控制器应能按设定的控制逻辑向各相关的受控设备发出] itrol mode, manual direct control device should also be set in the f | 联动控制信号,并接受相关设备的联动反馈信号。 |
| | 的持续工作时间。 | | con | 各受控设备接口的特性参数应与消防联动控制器发出的联动控制 trolled devices according to the set control and return sequence, a | 韵号相匹配。 nd receive linkage feedback signals from related devices. The cha |
| | 4、 溉明和插座分别由不同的支路供电, 栗明为单相三裁制,即ZC-BYJ3*2. 6阻燃 | | | ipment interface should be matched with the linkage control signal 2、火灾自动报警系统应设置火灾声光报警器,并应在确认火灾后启动I | 建筑内的所有火灾声光警报器。 |
| | The lighting and socket are respectively powered by different branches. 細座为单相三线制,线缆及开关型号参见配电系统图。,所有抽座国路均设置电 | 新路器保护。 | | automatic fire reporting system shall set up the fire sonoluminescenc 3、每个报警区域内应均匀设置火灾警报器,其声压级不应小于60dB; 3 | 在环境噪声大于60dB的场所,其升压器应高于 |
| | The socket is single-phase three-wire system. The cable and switch models are show 5、消防安全疏散标志通常设置在距地面离度1mm一下的墙面上,间距不应大于十月 | <u>,</u> | cted by leakage circuit breakers | e alarms shall be set up uniformly in each alarm area. Its sound pro 背景噪声15dB。且带有语音提示功能时、应同时设置语音同步器。 | - |
| | Fire safety evacuation signs are usually set on the walls less than 1m f 6、蘧筑内疏散照明的地面量低水平照度应符合下列规定,对于疏散走道,不应伯 | | 150 | 1B higher than the background noise. With voice prompt function, the v 4、系统总线上应设置总线短路隔离器,每只总线短路隔高器保护的火; | |
| | The floor illumination of evacuation lighting in the building shall meet (间),不应低于3.01x; 对于老年人無料设施、病房模或手术部的遊难间,不应值 | | e lower than 1.01x; The | system bus shall be equipped with a short-circuit high divider. The 的总数不应超过32点;总线穿她防火分区时,应在穿越处设置总线 | |
| | For crowded places and refuge floors (between), it should not be lower than 3.0 室、避难走道,不应低于10.01x。 | Mix; For elderly care facilities, wards or surgical units, the number of i | | II not be over 32 points. When the bus passes through the fire parti | tion, the bus should be set up at the crossing point. |
| | than 10.01x; For stairwells, front rooms or Shared front rooms, and evacua | tion corridors, it should not be lower than 10.01x | | 八、电气节能措施 1、据《建筑派明设计标准》确定不同场所的照度及照明功率密度标准(不高于 | 「标准中规定的现行值),根据视觉作业要求,对 |
| | 五、清防设计: Fire protection design 1、木饰面上的面板需加石精垫做好绝缘、防火。开关、搬座和照明灯具靠近可燃 | 编时,防孕取四线,带线施防火排放The wood veneer should be insulated a | Acce | ording to the "building lighting design standard" determine the diffe | rent place of blackness and standard lighting power density (not in |
| | switches, sockets and lighting fixtures are near combustibles, fire pre- | vention measures such as heat insulation and heat dissipation should be ta | with | 不同场所进行照明设计,并合题和用天然采光,应结合天然采光条件进行人工」 ording to the visual requirements, lighting design in different place: h the regional natural lighting should be source zonce control. 2、公共通筑的电能计量应按照用途、物业归属,运行管理及相关专业要求设 | |
| | 2、 原明灯具及电气设备、线路的高温部位、当希近非A级数修的利率或构件时, 应3 For the high-temperature part of lighting fixtures and electrical equipment and c m max 並木 始の確認能的知道式の広大王conm. (The NOV EIT AFT) | ircuits, when it is close to non-A-grade decoration materials or compon | ents, fire protection measures such | The electric energy meter of public buildings should be set up accord | ing to the requirements of measuring purpose, property ownership, |
| | 市、報事、基本、教気等地数材料的距离不应力于500mm,仅物应采用不低于 as heat insulation and heat dissipation shall be adopted. The distance between less than 500mm; Lighting should be made of materials at least B1 level | lighting fixtures and decoration materials such as curtains, curtains, c | | 的分项 计量还应猜足《公共机构办公建筑用电分类计量技术要求》D Bl1/T624j The itemized measurement of office buildings of state organs and lar in the itemized measurement of office buildings of state organs and lar | |
| | 3、建筑内部的配电箱、控制面板、接线盒、开关、播座等不应直接安装在低于B1 Distribution boxes, control panels, junction boxes, switches, sockets, et | | | 对照明、景观照明、厨房等设置独立分项电舱计量装置。 Energy of Office Buildings of Public Institutions. For lighting, land: | scape lighting, kitchen and other independent sub-electrical energy |
| | 的木质类板材,当内部含有电器、电线等物体时,应采用不低于B1级的材料 For ceiling and wall decoration of the wood plate, when the interior contains diad | | ls | 九、其他: Else | |
| | 挂、布艺等,当需要设置时,不应靠近电气线路、火狮或条额,或采取隔离 Wall hanging and cloth art made of B3 decorative materials should not be set. Wh | | heat source, or take isolation measures | 1、图纸未注明部分请参见相关规范,所有弱电部分不在机电设计范围P Please refer to relevant specifications for parts not specified in | |
| | 4、按一、二颌负荷供电的消防设备,其配电箱应独立设置; 按三颌负荷供电的消 and second loads shall be set up independently; The distribution box of fire | | | 2、消防设备要有入网许可证,电气设备不得使用淘汰产品。 Fire equipment must have access to the network permit, electric: | al equipment shall not use full tide products. |
| | | | | 3、竣工时需提交3C认证及相关合格检测报告。 Late working hours shall be submitted for 3C certification and r | |
| | Project | Title | | Drawn Date | |
| | 110,500 | | MAIN BUILDING ANNEX BUILING | 2020.08.26 Checked Print Date | THIS DRAWING IS PROPER AD Incorporation (China) Ltd |
| adinteriors | | Electrical Design Instruction | 主楼辅楼。五 | Scole NET AREA | UNAUTHORIZED USE IS NO |
| | | 电气设计说明 | 2F | 1:50@A2 Project no. Drawing no. WEP-01 | PERMITTED, ALL DIMENSI TO BE VERIFIED ON SITE |
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| | e resistance lin | mit of th | e floor at ea | ch floor |
|--------------------|------------------------------------|-----------|-----------------|-------------|
| ials be adopted | d for the elect | ric equi | pment of fire | , |
| still be gu | uaranteed | | | |
| equipment | t during the fi | re durat | ion of the bu | ilding |
| ighting wat | ter pump room, | smoke pr | evention and | |
| on lines | | | | |
| the clean | ning and preven | tion equ | ipment room v | which is |
| ld not be : | lower than the | t of nor | mal lighting. | |
| | | | | |
| | lding shall al | SO COMPI | y with the p | TOVISIONS |
| B 17945. | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| there shall | 1 be a separate | or insid | e the slot | |
| | l be pierced an | | | mbustible |
| | | | | |
| nnected to | o the pipes an | d the pi | pes to the ju | nction box. |
| | | | | |
| th the fol | llowing provisi | ons: | | |
| | | | | |
| a exa | section of no 1 | aer +1 | n A mm | |
| | | | | n holta -1" |
| e snäil be | e no less than | WO CONN | metion fixin | s poits wit |
| | | | | |
| ormal lighti | ting needs to be | cut off | | |
| iqin should | d have the func | tion of | | |
| | e exhaust fan, | | ion to linkary | • |
| | | | | |
| | linkage control stic parameters | | | a |
| | | | | |
| scence sen | nsors in the bu | ilding a | fter confirmi | ng the fire |
| e is greate | er than 80dB, t | he press | ure boost heat | t should |
| | _ | _ | _ | |
| nual fire a | alarm press, su | ch as the | e lead and more | lule, |
| | unun pross, su | | | |
| | | | | |
| | | | | |
| | rrent value spe | | | |
| l light con | nditions for ar | tificial | Zhi Ming dec | orated, |
| , operation | n management an | nd relate | ed majors. | |
| | fied Measuremen | | | ric |
| | | | | |
| rgy meter i | installed. | | | |
| | | | | |
| of electrom | mechanical desi | gn. | | |
| | | | | |
| | | | | |
| RTY | OF | Rev. | Date | Descri |
| d. | 0 | | | |
| IOT | | | | |
| IONS | | | | |