# ADVENSER

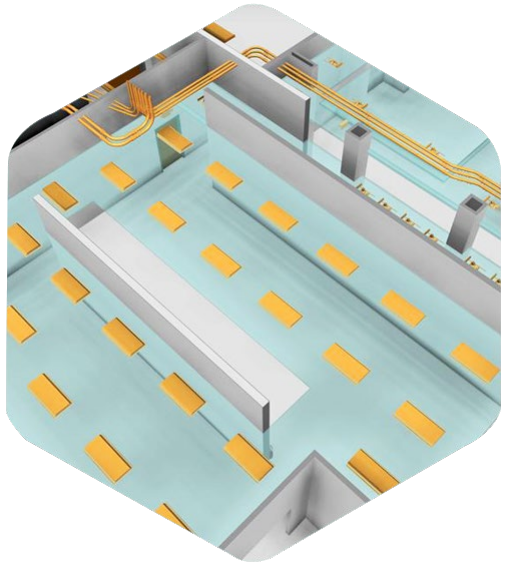
PARTNERS IN ENGINEERING EXCELLENCE

SINCE 2007

# COMPANY OVERVIEW

Advenser is a multinational, multi-disciplined engineering company delivering advanced engineering services & solutions to the construction industry through innovative practices, utilizing BIM and advanced technological tools. Since 2007, we have accumulated extensive experience in the AEC industry, delivering a variety of complex projects across multiple countries with a proven track record of success.

Our engineering team, with a workforce of more than 300+ Engineers with Architectural, Structural and MEP experience, have the expertise and skillsets to meet the demands of any complex project anywhere in the world. We streamline our services to match & adapt to your constantly evolving needs.



**1K+**
CLIENTS

**20+**
COUNTRIES

**10K+**
PROJECTS

**300+**
PEOPLE

# ADVENSER DIFFERENTIATORS

### Proven Expertise and Global Presence

Serving clients worldwide with a proven track record of successfully delivering complex projects.

### Strong Focus on Quality and Accuracy

Multi-tiered quality checks ensure precise, error-free deliverables every time.

### Flexible and Scalable Resource Pool

Easily scale teams up or down to match changing project needs without delays.

### Competitive Pricing and Cost Predictability

Transparent, cost-effective pricing structures with no hidden surprises.

### Technology-Driven Processes

Advanced tools and automation streamline workflows and maximize productivity.

### Client-Centric Engagement

Personalized service and proactive communication tailored to your project goals.

### Domain-Specific Teams

Dedicated specialists with deep industry knowledge for domain-specific solutions.

### Robust Data Security

Strict compliance with global data protection standards to safeguard your information.

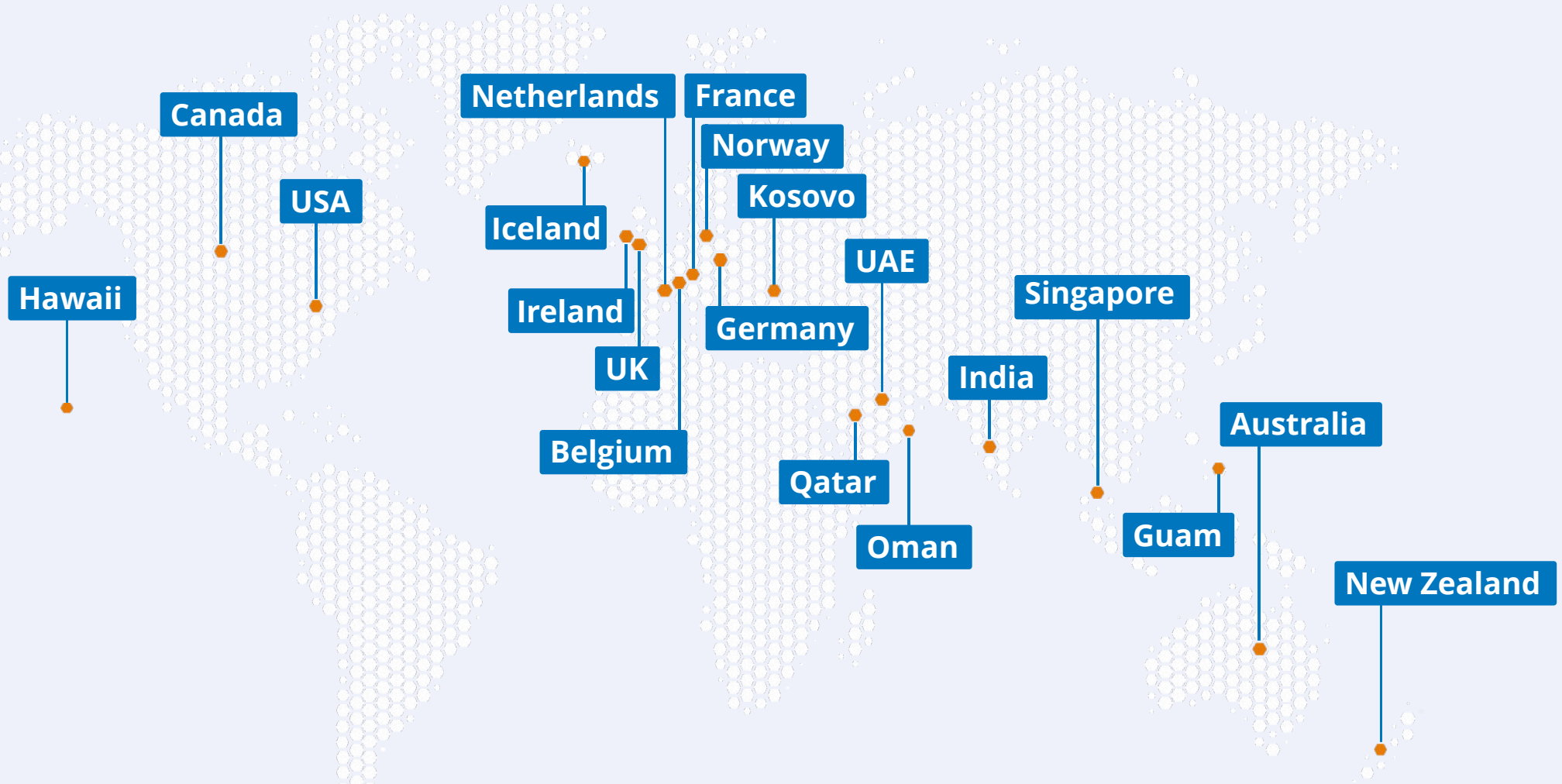
### Onshore–Offshore Hybrid Support

A balanced delivery model that blends local presence with global execution strengths.

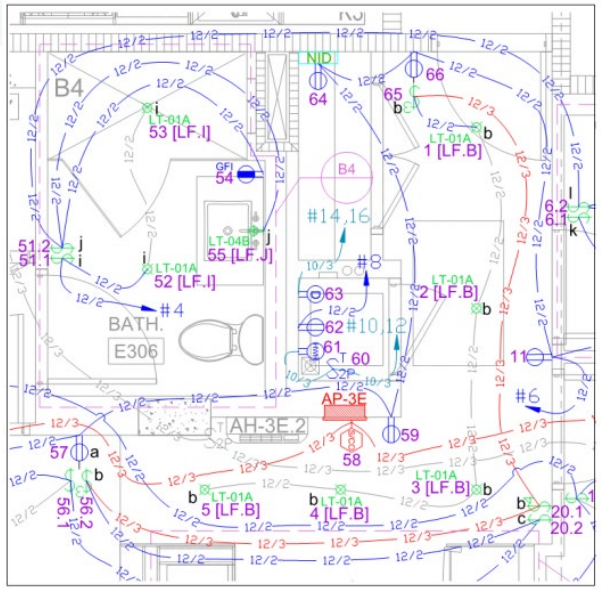
### Commitment to Continuous Improvement

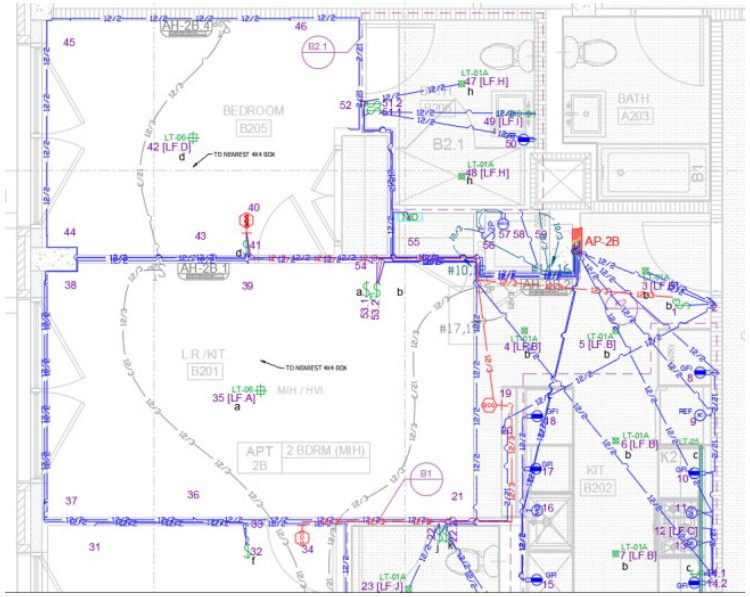
Continuous process enhancements to increase efficiency and deliver greater value.

# OUR CLIENT BASE



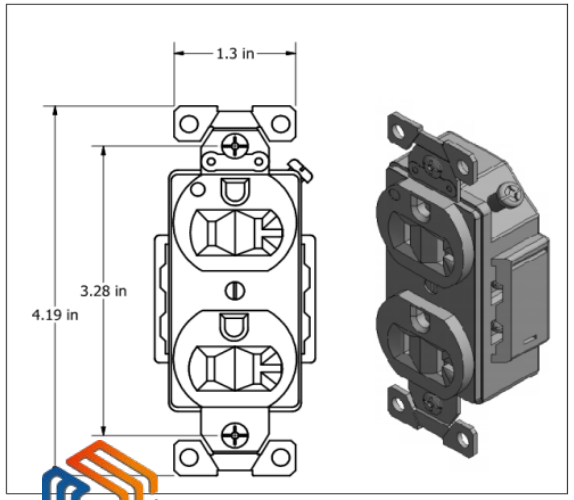
# ELECTRICAL ENGINEERING SERVICES

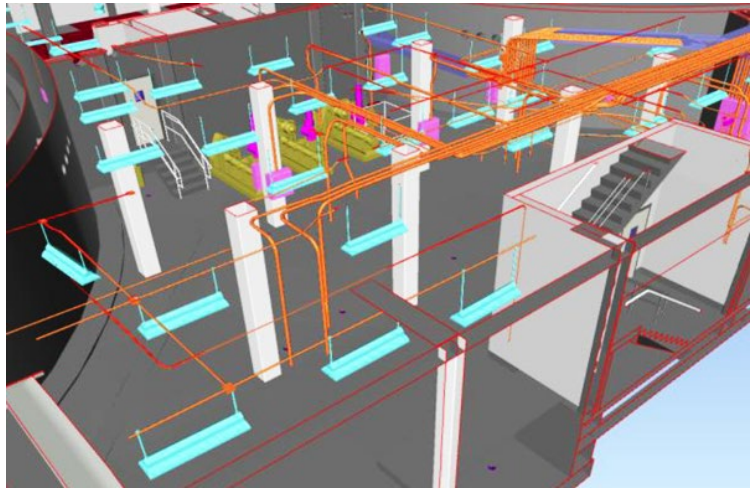


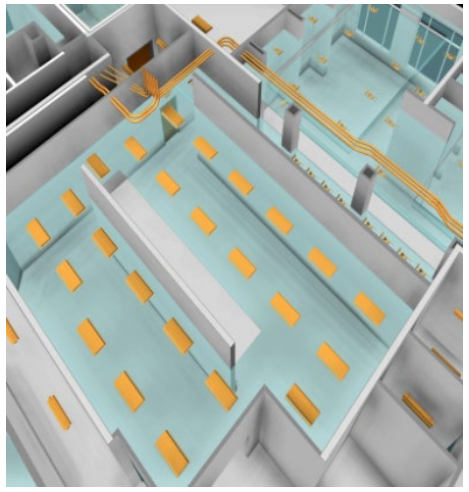




| PRE-FAB WIRE SCHEDULE | | | | | | |
|---|---|---|---|---|---|---|
| APT. | CKT # | FromDevice | RAW LENGTH | TYPE | Route | ToDevice |
| 2A | 9 | 1.1 | 22.192 | 12/2-AC BX | OH | 15.1 [CKT#9] |
| 2A | 9 | | 8.933 | 12/2-AC BX | OH | 3 [LF.A] |
| 2A | 9 | 1.2 | 11.642 | 12/2-AC BX | OH | 5 [LF.A] |
| 2A | 9 | | 21.758 | 12/3-AC BX | OH | 15.1 [CKT#9] |
| 2A | 4 | 12.1 | 16.817 | 12/2-AC BX | OH | 10 [CKT#4] |
| 2A | 4 | | 11.917 | 12/2-AC BX | OH | 11 [LF.G] |
| 2A | 4 | 12.2 | 8.267 | 12/2-AC BX | OH | 8 [LF.F] |
| 2A | 6 | 13 | 15.275 | 12/2-AC BX | OH | 2 |
| 2A | 6 | 14 | 24.033 | 12/2-AC BX | OH | 2 |
| 2A | 6 | | 8.442 | 12/2-AC BX | IW | 17 |
| 2A | 6 | 18 | 10.375 | 12/2-AC BX | IW | 17 |
| 2A | 6 | | 18.558 | 12/2-AC BX | OH | 19 |
| 2A | 6 | 20 | 9.158 | 12/2-AC BX | IW | 21 |
| 2A | 6 | | 27.05 | 12/2-AC BX | OH | 19 |
| 2A | 6 | 22 | 25.75 | 12/2-AC BX | OH | 21 |
| 2A | 5 | 24 | 7.1 | 12/2-AC BX | IW | 23 |
| 2A | 9 | 25.1 | 15.1 | 12/2-AC BX | IW | 26 [LF.E] |
| 2A | 9 | | 36.958 | 12/2-AC BX | OH | 15.1 [CKT#9] |
| 2A | 10,12 | 31 | 5.192 | 10/3-AC BX | IW | 30 |
| 2A | 1 | LC | 32.142 | 12/2-AC BX | OH | 25.2 |
| 2A | 10,12 | | 24.233 | 10/3-AC BX | OH | 30 |
| 2A | 14,16 | | 23.167 | 10/3-AC BX | OH | 33 |
| 2A | 2 | | 26.317 | 12/2-AC BX | OH | 29 |
| 2A | 3 | | 27.233 | 12/2-AC BX | OH | 28 |
| 2A | 4 | | 4.758 | 12/2-AC BX | IW | 12.2 |
| 2A | 5 | | 37.567 | 12/2-AC BX | OH | 23 |
| 2A | 6 | | 19.825 | 12/2-AC BX | OH | 2 |
| 2A | 7 | | 30.725 | 12/2-AC BX | OH | 27 |
| 2A | 8 | | 23.583 | 12/2-AC BX | OH | 32 |
| 2A | 9 | | 18.692 | 12/2-AC BX | OH | 15.2 |
| | | | 572.758 | | | |

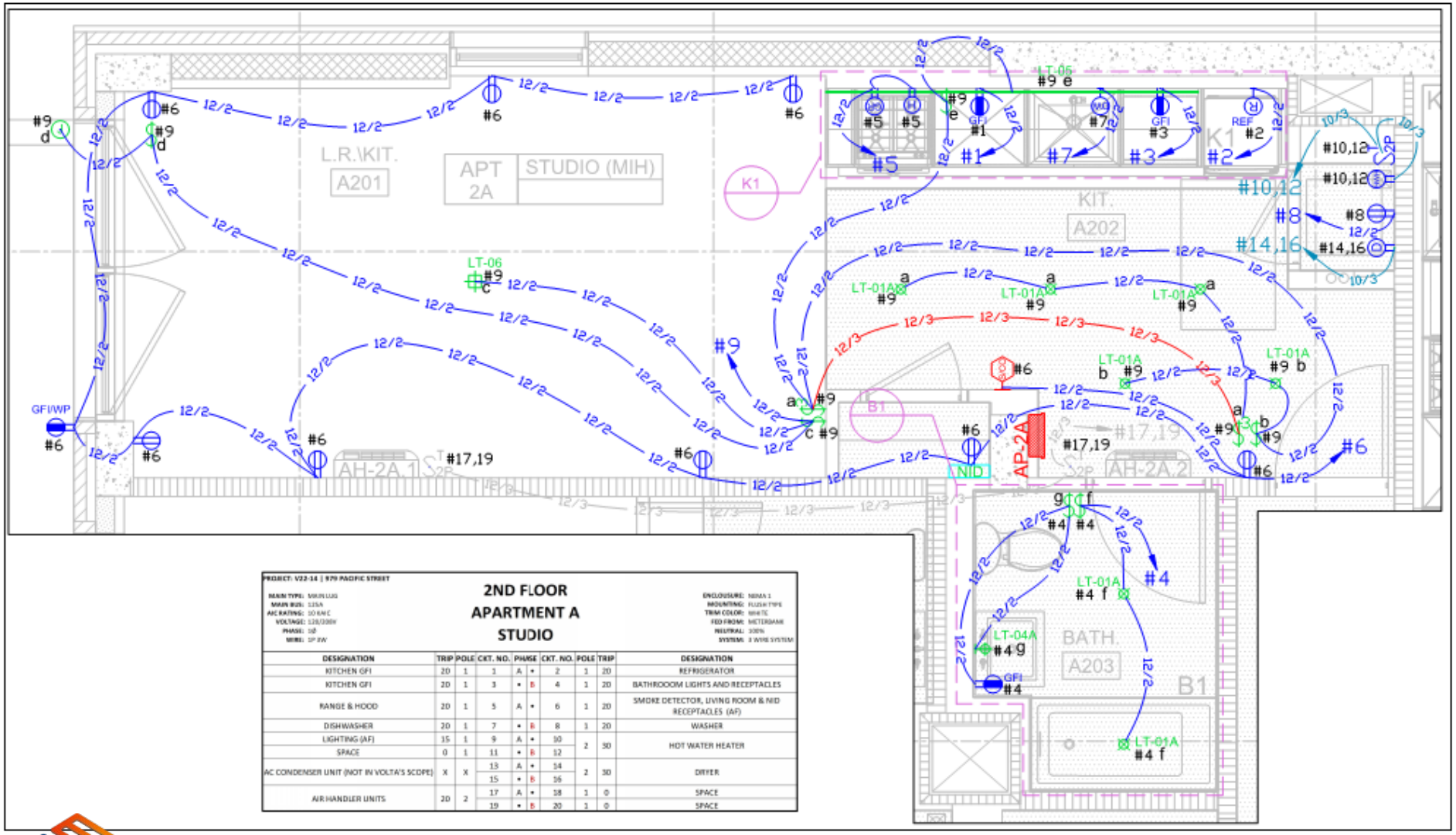
1. Shop drawings
2. Prefabrication drawings
3. Quantity take off
4. Electrical fixture detailing/modeling
5. 3D electrical BIM modeling (containment, conduit, fixtures)





# ELECTRICAL SHOP DRAWING




**2ND FLOOR APARTMENT A STUDIO**

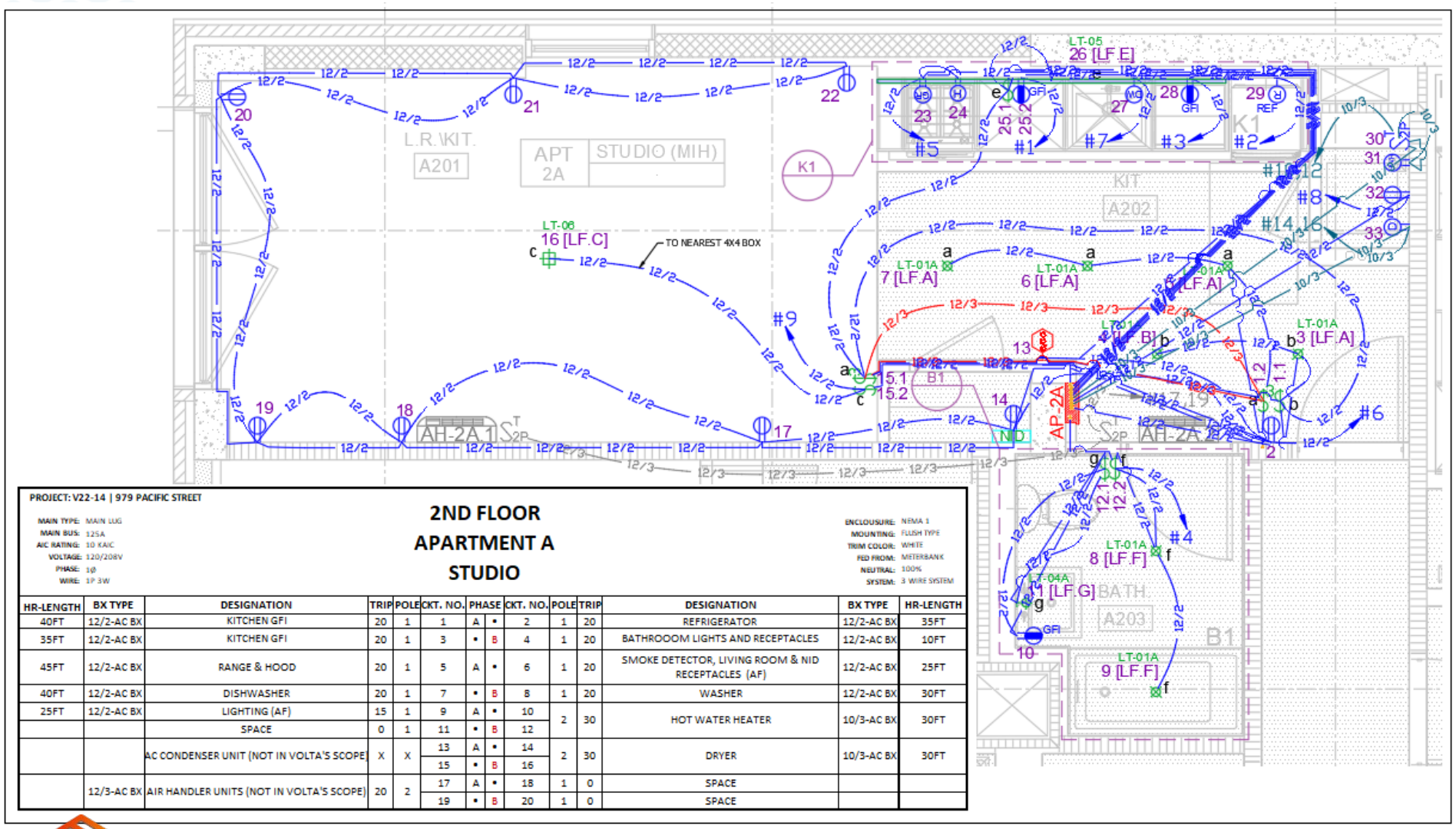
| DESIGNATION | TRIP | POLE | CKT. NO. | PHASE | CKT. NO. | POLE | TRIP | DESIGNATION |
|---|---|---|---|---|---|---|---|---|
| KITCHEN GFI | 20 | 1 | 1 | A | 2 | 1 | 20 | REFRIGERATOR |
| KITCHEN GFI | 20 | 1 | 3 | B | 4 | 1 | 20 | BATHROOOM LIGHTS AND RECEPTACLES |
| RANGE & HOOD | 20 | 1 | 5 | A | 6 | 1 | 20 | SMOKE DETECTOR, LIVING ROOM & NID RECEPTACLES (AF) |
| DISHWASHER | 20 | 1 | 7 | B | 8 | 1 | 20 | WASHER |
| LIGHTING (AF) | 15 | 1 | 9 | A | 10 | 2 | 30 | HOT WATER HEATER |
| SPACE | 0 | 1 | 11 | B | 12 | | | |
| AC CONDENSER UNIT (NOT IN VOLTA'S SCOPE) | X | X | 13 | A | 14 | 2 | 30 | DRYER |
| | | | 15 | B | 16 | | | |
| AIR HANDLER UNITS | 20 | 2 | 17 | A | 18 | 1 | 0 | SPACE |
| | | | 19 | B | 20 | 1 | 0 | SPACE |

The main objective of Shop drawing creation is to assign circuits and define electrical connection between devices, as per load center schedule.

Shop drawing creation is mainly done for systems like Power, Lighting, Fire Alarm, Extra Low Voltage.

Shop drawing generation include procedures like device placement, wire connection between devices, assigning circuit, Section drawing creation and so on.

# ELECTRICAL PREFABRICATION DRAWING




PROJECT: V22-14 | 979 PACIFIC STREET

MAIN TYPE: MAIN LUG
MAIN BUS: 125A
AIC RATING: 10 KAIC
VOLTAGE: 120/208V
PHASE: 1Ø
WIRE: 1P 3W

## 2ND FLOOR
## APARTMENT A
## STUDIO

ENCLOSURE: NEMA 1
MOUNTING: FLUSH TYPE
TRIM COLOR: WHITE
FED FROM: METERBANK
NEUTRAL: 100%
SYSTEM: 3 WIRE SYSTEM

| HR-LENGTH | BX TYPE | DESIGNATION | TRIP | POLE | CKT. NO. | PHASE | CKT. NO. | POLE | TRIP | DESIGNATION | BX TYPE | HR-LENGTH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40FT | 12/2-AC BX | KITCHEN GFI | 20 | 1 | 1 | A • | 2 | 1 | 20 | REFRIGERATOR | 12/2-AC BX | 35FT |
| 35FT | 12/2-AC BX | KITCHEN GFI | 20 | 1 | 3 | • B | 4 | 1 | 20 | BATHROOOM LIGHTS AND RECEPTACLES | 12/2-AC BX | 10FT |
| 45FT | 12/2-AC BX | RANGE & HOOD | 20 | 1 | 5 | A • | 6 | 1 | 20 | SMOKE DETECTOR, LIVING ROOM & NID RECEPTACLES (AF) | 12/2-AC BX | 25FT |
| 40FT | 12/2-AC BX | DISHWASHER | 20 | 1 | 7 | • B | 8 | 1 | 20 | WASHER | 12/2-AC BX | 30FT |
| 25FT | 12/2-AC BX | LIGHTING (AF) | 15 | 1 | 9 | A • | 10 | 2 | 30 | HOT WATER HEATER | 10/3-AC BX | 30FT |
| | | SPACE | 0 | 1 | 11 | • B | 12 | | | | | |
| | | AC CONDENSER UNIT (NOT IN VOLTA'S SCOPE) | X | X | 13 | A • | 14 | 2 | 30 | DRYER | 10/3-AC BX | 30FT |
| | | | | | 15 | • B | 16 | | | | | |
| | 12/3-AC BX | AIR HANDLER UNITS (NOT IN VOLTA'S SCOPE) | 20 | 2 | 17 | A • | 18 | 1 | 0 | SPACE | | |
| | | | | | 19 | • B | 20 | 1 | 0 | SPACE | | |

The main objective of Prefab drawing creation is to get quantity takeoff and to extract device properties from drawing.

Prefab drawing creation will be commenced after the submitted shop drawing gets approved.

Prefab drawing generation includes device address definition, wire drafting, assembly naming, Home run length details, Wire and device scheduling and so on.

# QUANTITY TAKE OFF

| PRE-FAB DEVICE SCHEDULE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Quantity | ZONE | APT. | DEVICE ID | CIRCUIT NUMBER | ASSEMBLY TYPE | SPECIAL BOX | FIRE STOP | RAISE COVER |
| 1 | | 2A | 1.1 | 9 | UD-L8-2-S,3W_120_15_1 | | | |
| 1 | | 2A | 1.2 | 9 | UD-L8-2-S,3W_120_15_1 | | | |
| 1 | | 2A | 2 | 6 | UD-L8-1-2R_120_15_1 | | | |
| 1 | | 2A | 3 [LF.A] | 9 | NO ASSEMBLY | | | |
| 1 | | 2A | 4 [LF.B] | 9 | NO ASSEMBLY | | | |
| 1 | | 2A | 5 [LF.A] | 9 | NO ASSEMBLY | | | |
| 1 | | 2A | 6 [LF.A] | 9 | NO ASSEMBLY | | | |
| 1 | | 2A | 7 [LF.A] | 9 | NO ASSEMBLY | | | |
| 1 | | 2A | 8 [LF.F] | 4 | NO ASSEMBLY | | | |
| 1 | | 2A | 9 [LF.F] | 4 | NO ASSEMBLY | | | |
| 1 | | 2A | 10 | 4 | WS-8-1-H-2GR_120_20_1 | | | |
| 1 | | 2A | 11 [LF.G] | 4 | NO ASSEMBLY | | | |
| 1 | | 2A | 12.1 | 4 | UD-R8-2-S,S_120_15_1 | | | |
| 1 | | 2A | 12.2 | 4 | UD-R8-2-S,S_120_15_1 | | | |
| 1 | | 2A | 13 | 6 | UD-LH-R | | | |
| 1 | | 2A | 14 | 6 | DGEM-2R_120_15_1 | | | |
| 1 | | 2A | 15.1 | 9 | UD-L8-2-3W,S_120_15_1 | | | |
| 1 | | 2A | 15.2 | 9 | UD-L8-2-3W,S_120_15_1 | | | |
| 1 | | 2A | 16 [LF.C] | 9 | NO ASSEMBLY | | | |
| 1 | | 2A | 17 | 6 | UD-L8-1-2R_120_15_1 | | | |
| 1 | | 2A | 18 | 6 | UD-L8-1-2R_120_15_1 | | | |
| 1 | | 2A | 19 | 6 | UD-R8-1-2R_120_15_1 | | | |
| 1 | | 2A | 20 | 6 | UD-R8-1-2R_120_15_1 | | | |
| 1 | | 2A | 21 | 6 | UD-R8-1-2R_120_15_1 | | | |
| 1 | | 2A | 22 | 6 | UD-R8-1-2R_120_15_1 | | | |
| 1 | | 2A | 23 | 5 | UD-L8-1-2R_120_15_1 | | | |
| 1 | | 2A | 24 | 5 | DGEM-1R_120_20_1 | | | |
| 1 | | 2A | 25.1 | 9 | WS-8-2-S,2GR_120_15_1 | | | |
| 1 | | 2A | 25.2 | 1 | WS-8-2-S,2GR_120_15_1 | | | |
| 1 | | 2A | 26 [LF.E] | 9 | NO ASSEMBLY | | | |
| 1 | | 2A | 27 | 7 | UD-L8-1-1R_120_20_1 | | | |
| 1 | | 2A | 28 | 3 | WS-8-1-2GR_120_15_1 | | | |
| 1 | | 2A | 29 | 2 | UD-L8-1-1R_120_20_1 | | | |
| 1 | | 2A | 30 | 10,12 | UD-L8-1-TS_250_30_2 | | | |
| 1 | | 2A | 31 | 10,12 | NO ASSEMBLY | | | |
| 1 | | 2A | 32 | 8 | UD-L8-1-2R_120_15_1 | | | |
| | | 2A | 33 | 14,16 | UD-L8-2-14_30R | | | |
| | | | | | 0.000 | | | |

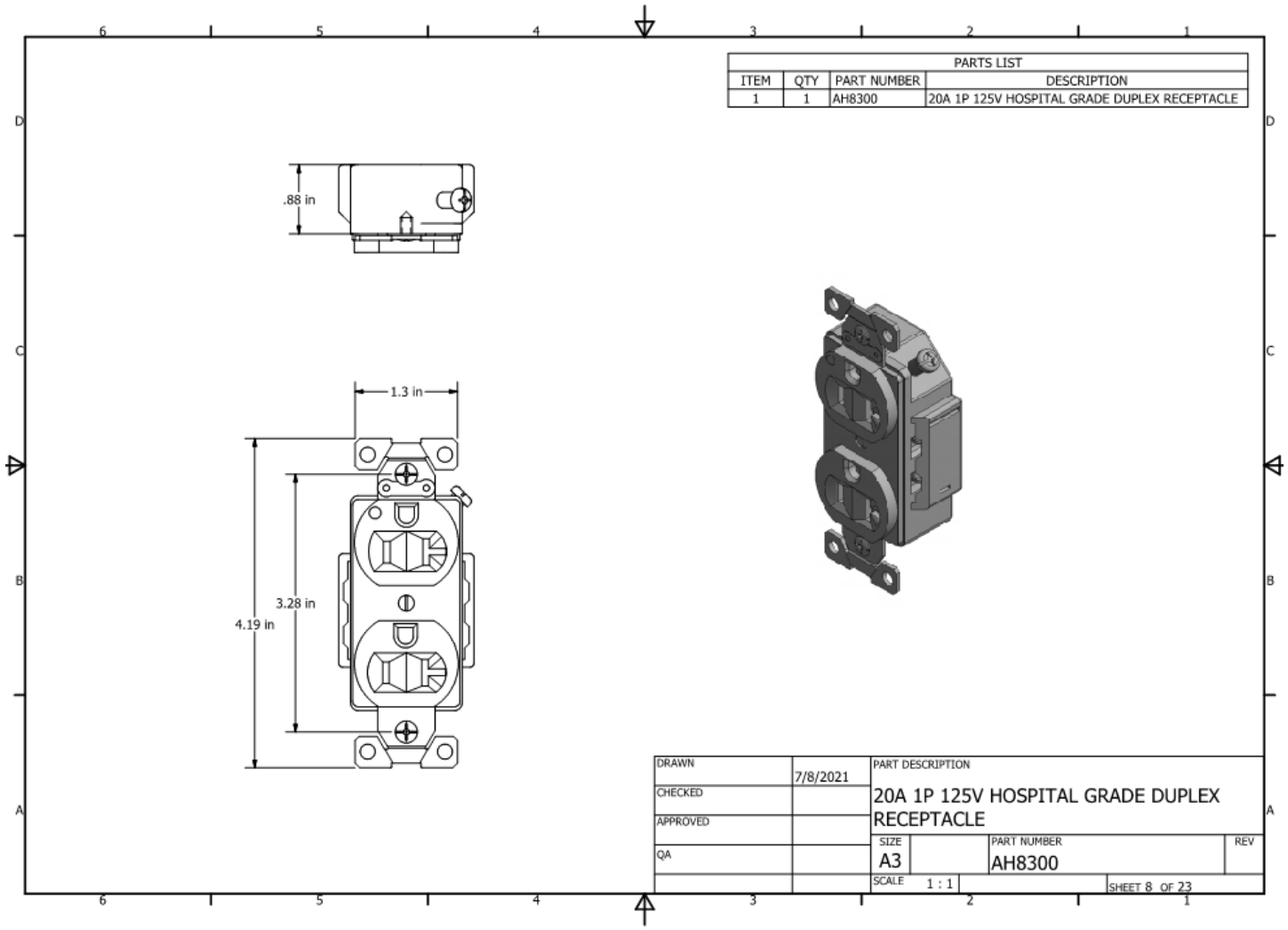
| PRE-FAB WIRE SCHEDULE | | | | | | |
|---|---|---|---|---|---|---|
| APT. | CKT # | FromDevice | RAW LENGTH | TYPE | Route | ToDevice |
| 2A | 9 | 1.1 | 22.192 | 12/2-AC BX | OH | 15.1 [CKT#9] |
| 2A | 9 | | 8.933 | 12/2-AC BX | OH | 3 [LF.A] |
| 2A | 9 | 1.2 | 11.642 | 12/2-AC BX | OH | 5 [LF.A] |
| 2A | 9 | | 21.758 | 12/3-AC BX | OH | 15.1 [CKT#9] |
| 2A | 4 | 12.1 | 16.817 | 12/2-AC BX | OH | 10 [CKT#4] |
| 2A | 4 | | 11.917 | 12/2-AC BX | OH | 11 [LF.G] |
| 2A | 4 | 12.2 | 8.267 | 12/2-AC BX | OH | 8 [LF.F] |
| 2A | 6 | 13 | 15.275 | 12/2-AC BX | OH | 2 |
| 2A | 6 | 14 | 24.033 | 12/2-AC BX | OH | 2 |
| 2A | 6 | | 8.442 | 12/2-AC BX | IW | 17 |
| 2A | 6 | 18 | 10.375 | 12/2-AC BX | IW | 17 |
| 2A | 6 | | 18.558 | 12/2-AC BX | OH | 19 |
| 2A | 6 | 20 | 9.158 | 12/2-AC BX | IW | 21 |
| 2A | 6 | | 27.05 | 12/2-AC BX | OH | 19 |
| 2A | 6 | 22 | 25.75 | 12/2-AC BX | OH | 21 |
| 2A | 5 | 24 | 7.1 | 12/2-AC BX | IW | 23 |
| 2A | 9 | 25.1 | 15.1 | 12/2-AC BX | IW | 26 [LF.E] |
| 2A | 9 | | 36.958 | 12/2-AC BX | OH | 15.1 [CKT#9] |
| 2A | 10,12 | 31 | 5.192 | 10/3-AC BX | IW | 30 |
| 2A | 1 | LC | 32.142 | 12/2-AC BX | OH | 25.2 |
| 2A | 10,12 | | 24.233 | 10/3-AC BX | OH | 30 |
| 2A | 14,16 | | 23.167 | 10/3-AC BX | OH | 33 |
| 2A | 2 | | 26.317 | 12/2-AC BX | OH | 29 |
| 2A | 3 | | 27.233 | 12/2-AC BX | OH | 28 |
| 2A | 4 | | 4.758 | 12/2-AC BX | IW | 12.2 |
| 2A | 5 | | 37.567 | 12/2-AC BX | OH | 23 |
| 2A | 6 | | 19.825 | 12/2-AC BX | OH | 2 |
| 2A | 7 | | 30.725 | 12/2-AC BX | OH | 27 |
| 2A | 8 | | 23.583 | 12/2-AC BX | OH | 32 |
| 2A | 9 | | 18.692 | 12/2-AC BX | OH | 15.2 |
| | | | 572.758 | | | |

The main objective of Quantity take off is to review and estimate the physical materials and their takeoff information, in order to execute the site installation efficiently.

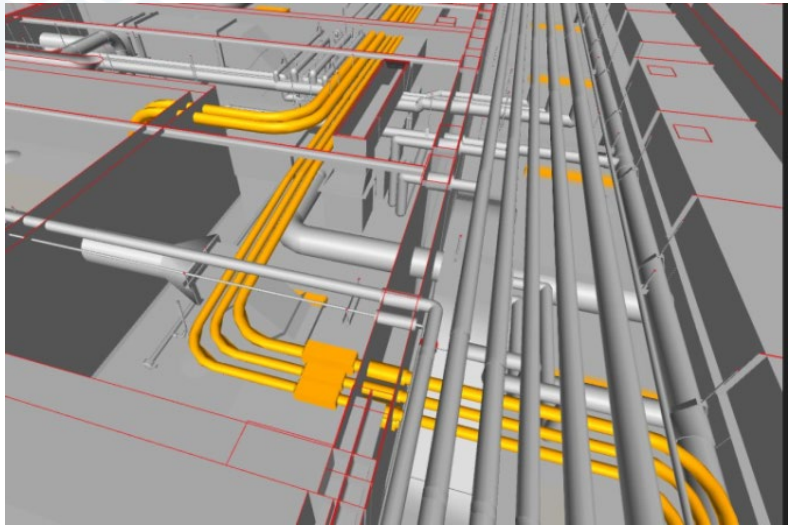
Scheduling can be customized and generated based on client requirement.

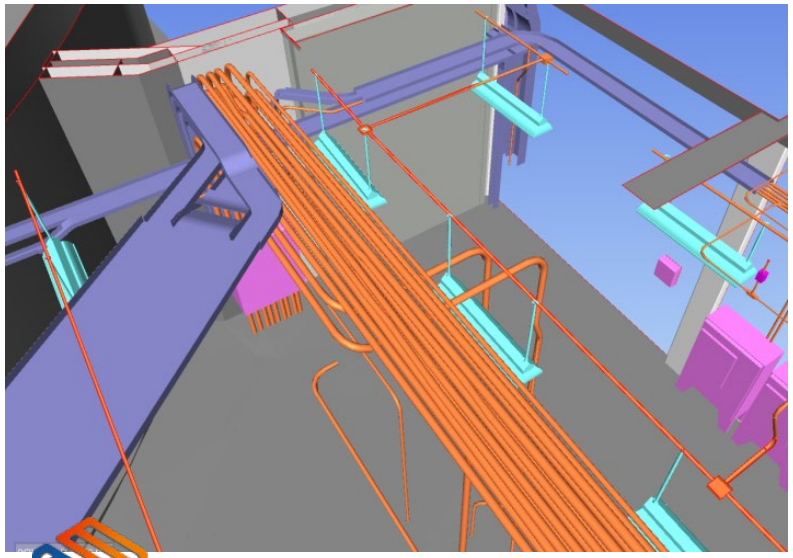
# ELECTRICAL FIXTURE MODELING/ DETAILING

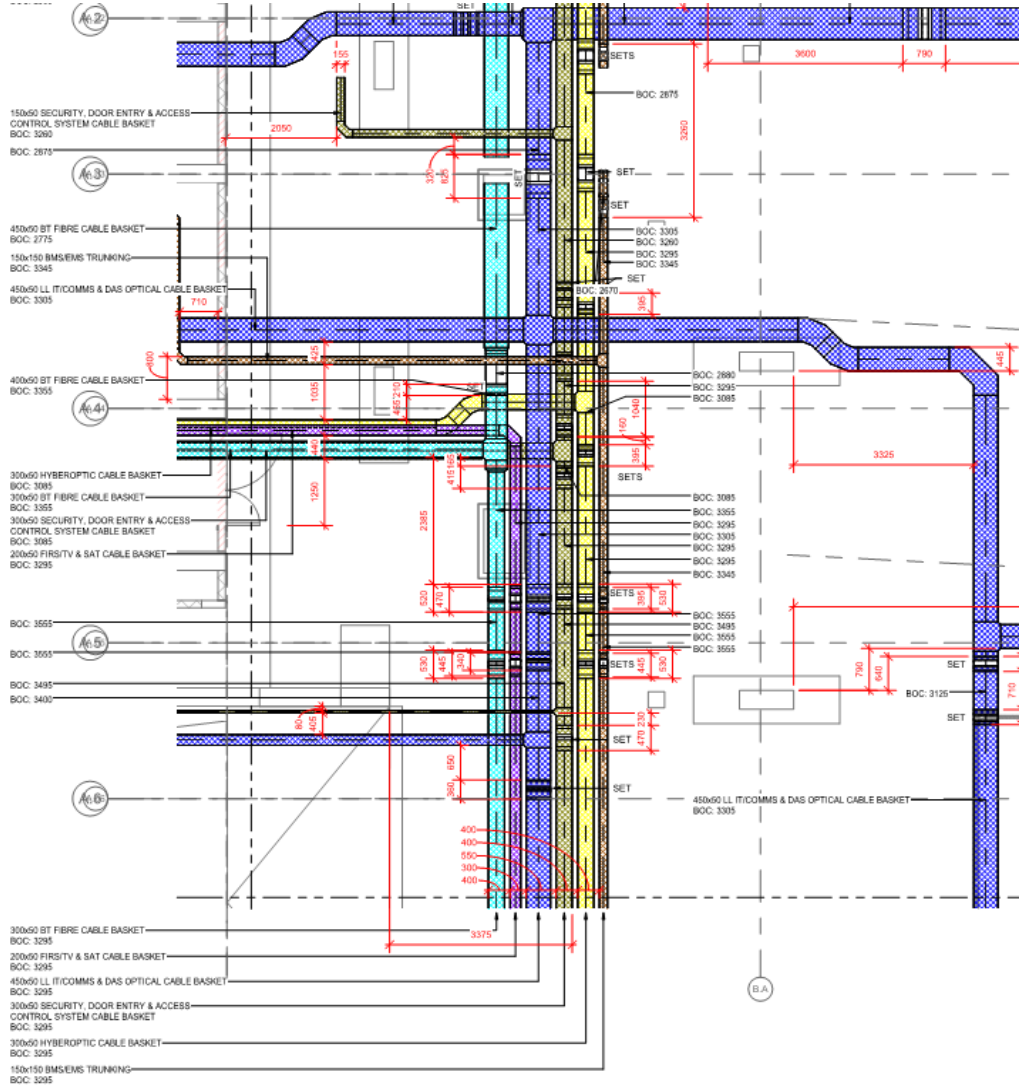
The electrical fixtures like receptacles, switches, lights can be modeled with the required Level of Detailing, based on the client's requirement.



# 3D ELECTRICAL BIM MODELING








Electrical BIM modeling includes 3D modeling of cable trays, conduits, panels, switches, receptacles, lights and so on.

Clash detection and Coordination of Electrical BIM model with other trades can also be performed.

Coordination drawings based on client requirement can also be generated.

# BIM CONSULTING SERVICES

Since 2007, we have been assisting construction companies, general & specialty contractors in their migration to BIM from CAD. We act as a strategic BIM partner to the client educating and training them for seamless migration from CAD drafting to BIM implementation.

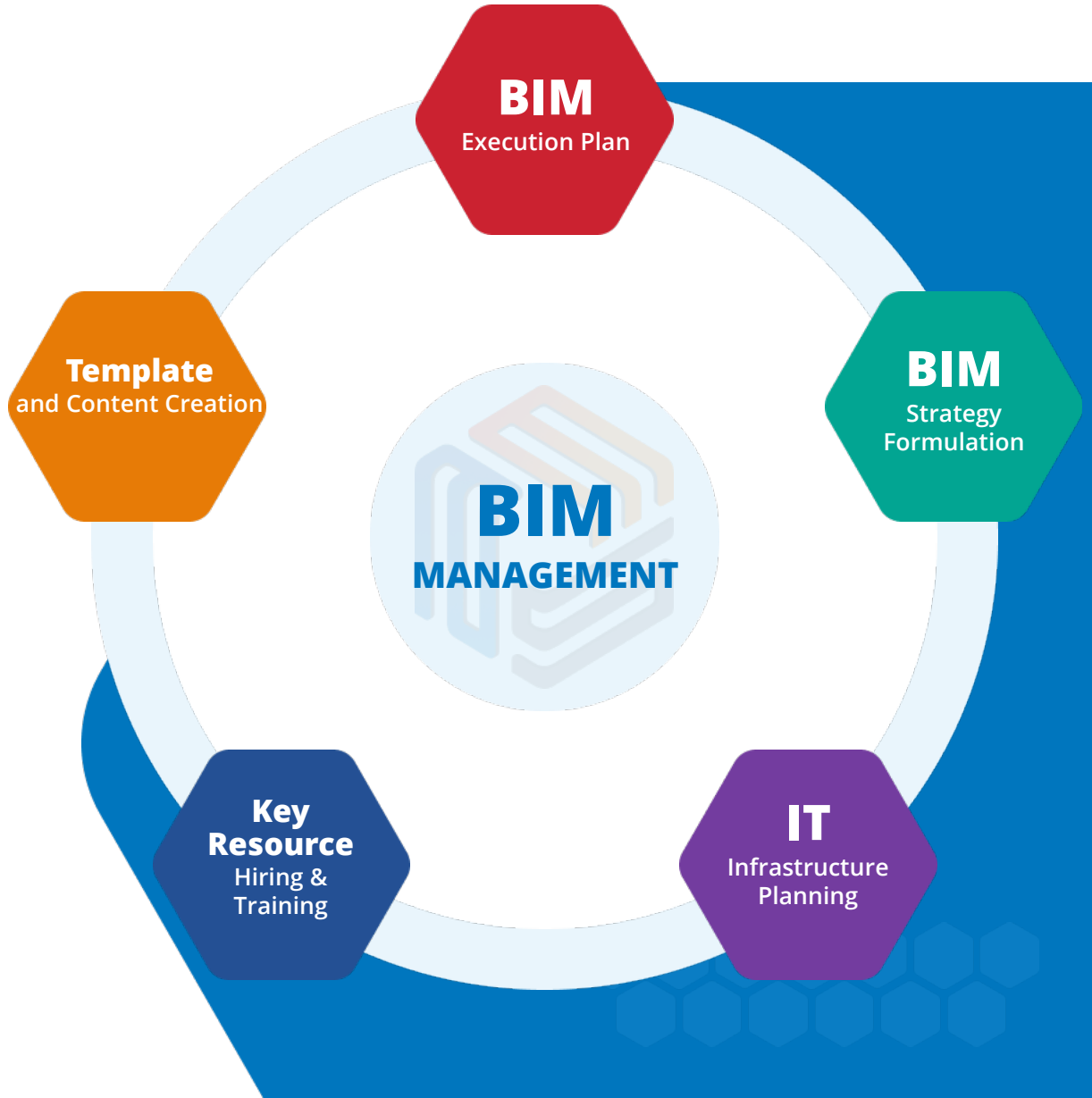
**BIM MODEL AUDIT**

**OFFSHORE BIM TEAM**

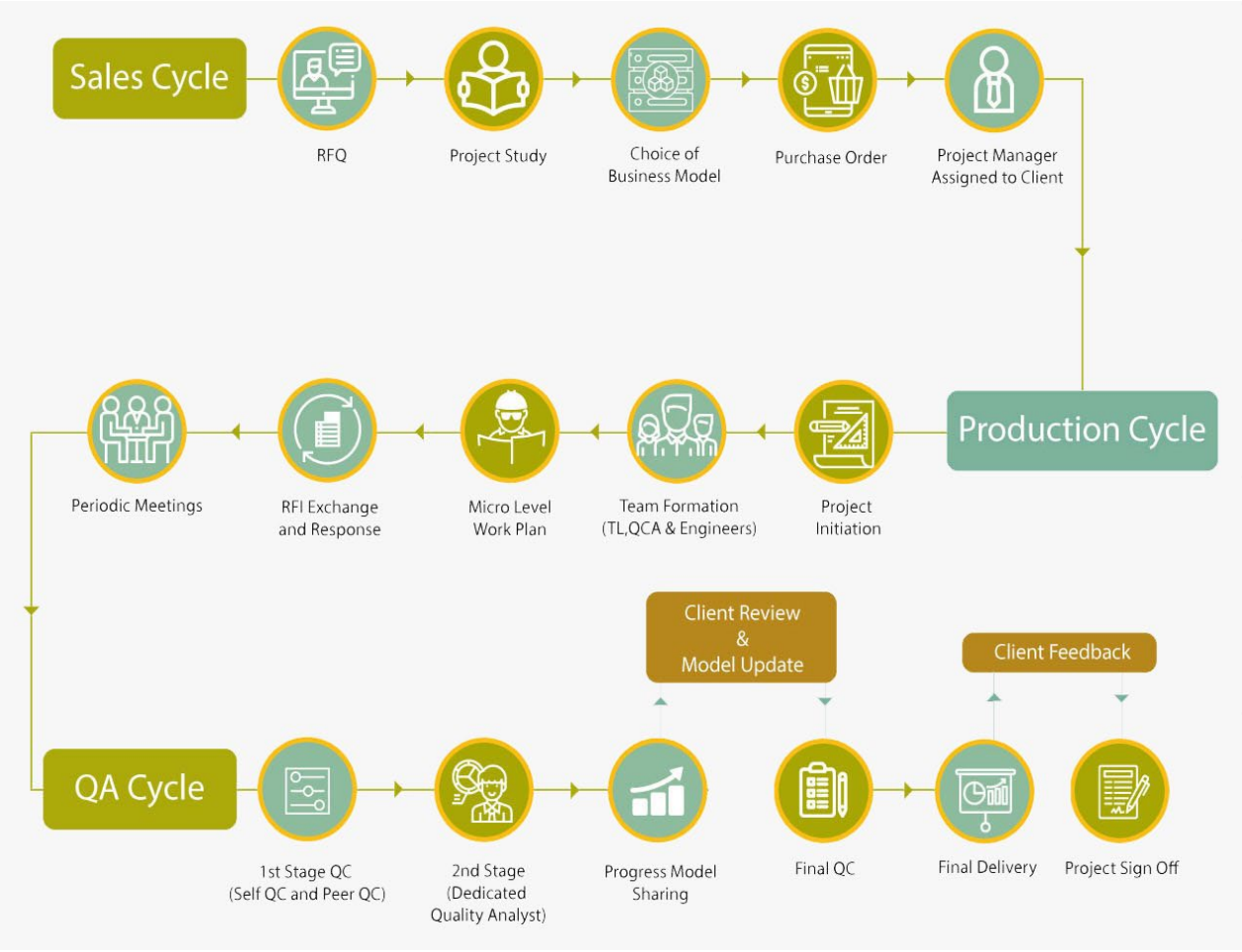
**BIM IMPLEMENTATION PLANNING**

**BIM TRAINING**

**ON-SITE BIM SUPPORT**



# OUR DETAILING PROCEDURE




# OUR APPROACH

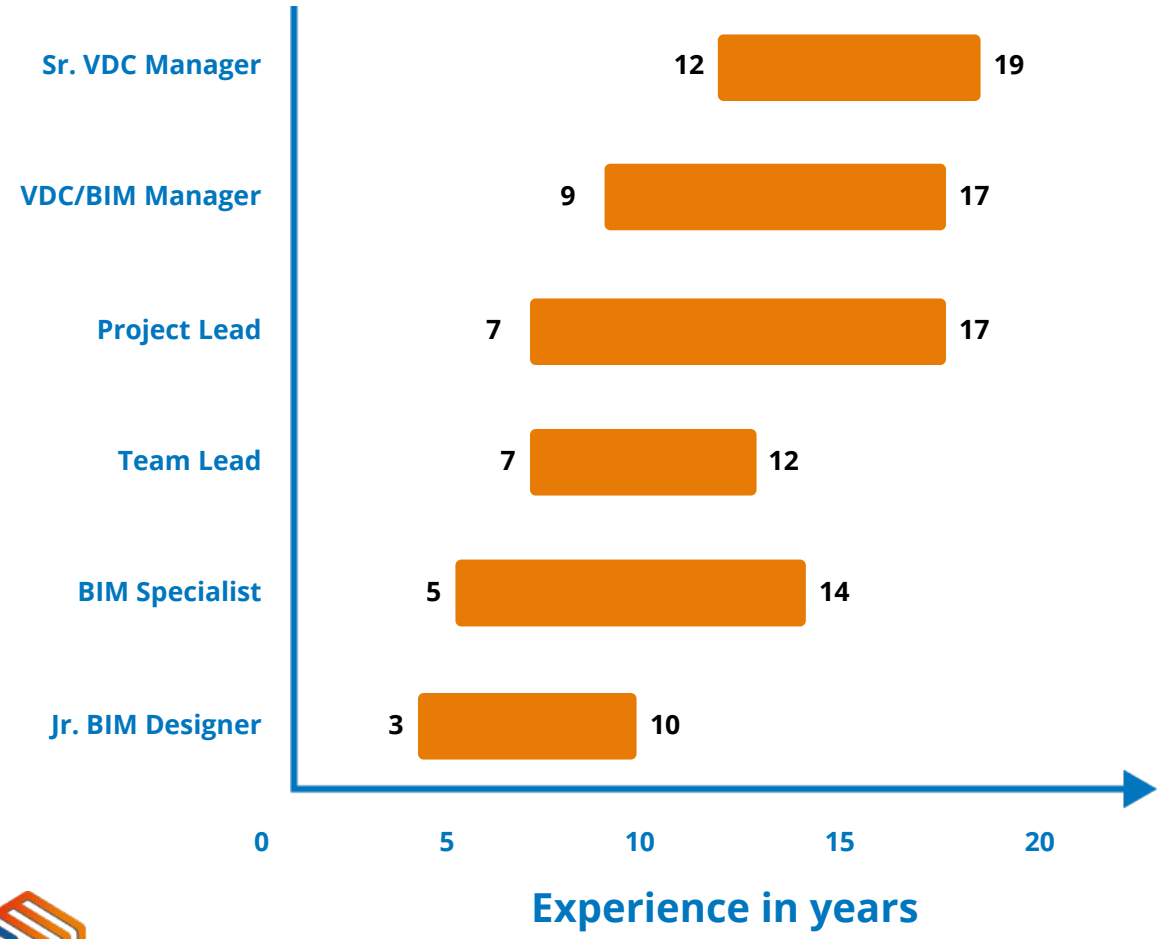
**Understanding Client Requirements:** With every client, we understand that a different approach may need to be employed with every project, bringing a new set of skills and technology to the table. We devote the time needed to study the objective of the project.

**Delivering Solutions:** To achieve the goals of the project, our engineers adopt the most appropriate methods, outdoing themselves. Our work is to follow a system driven process incorporating the latest methods in the BIM industry which ensures projects are delivered on time and are nothing short of the highest quality..

**Constant Improvement:** The engineering team, led by highly capable and seasoned project managers tirelessly learn, research and update themselves to meet the ever-changing and dynamic demands of the AEC industry. Systematic knowledge sharing and perfection of the work process is an ongoing process in Advenser. With every project, we see to it that we always make room for innovation.

**Our Promise:** Client satisfaction is a promise we assure and we measure our successes on par with that of our client's. We take pride in our past glory & achievements but at the same time strive to make them nothing more than mere milestones in our pursuit of excellence.

# TEAM PROFICIENCY & SOFTWARE PROFICIENCY




Revit Suite

BIM 360

AutoCAD

LogiKal

AutoCAD 360 PRO

Autodesk Inventor

Navisworks Manage

MagiCAD

ReCapture

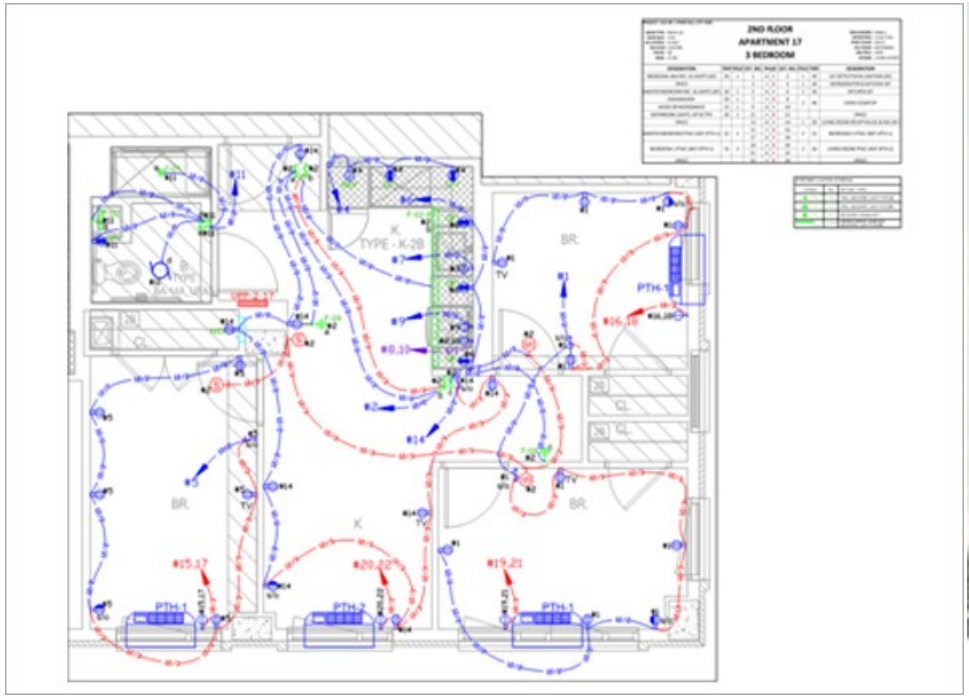
Civil 3D

Building Data

Construction Cloud

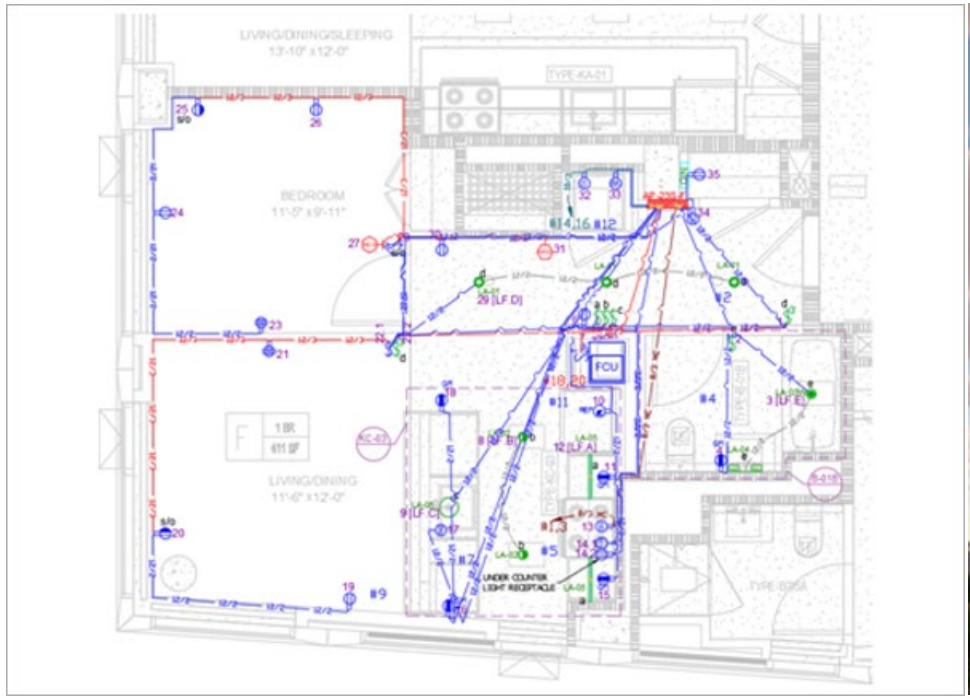
# FEATURED PROJECTS

## Park Hill City Airs, USA



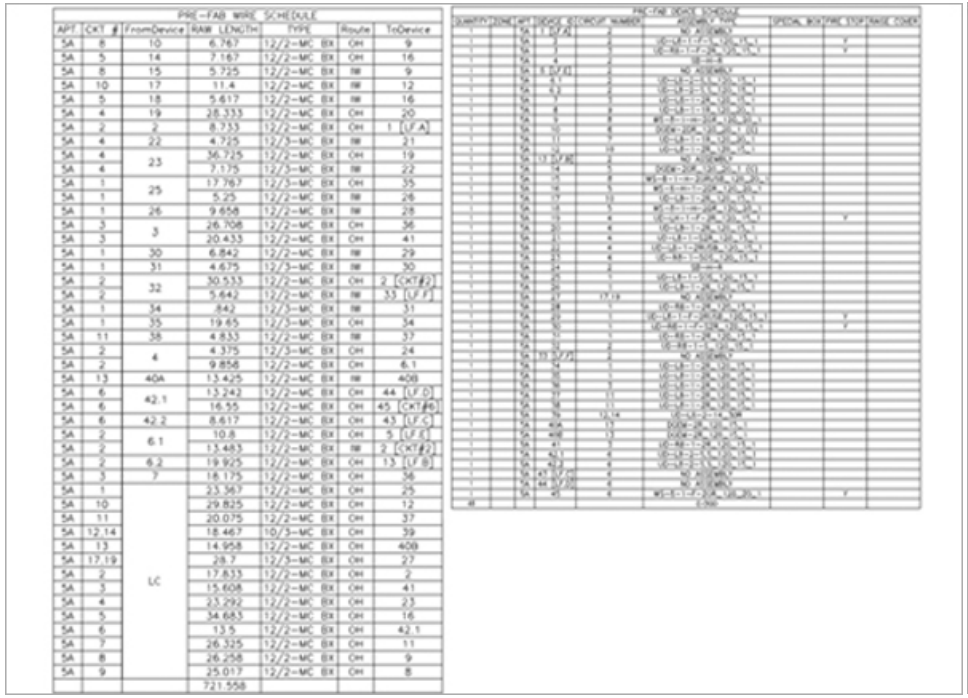

# FEATURED PROJECTS

## 77 Commercial Street, USA




# FEATURED PROJECTS

## Archer Tower Development, USA

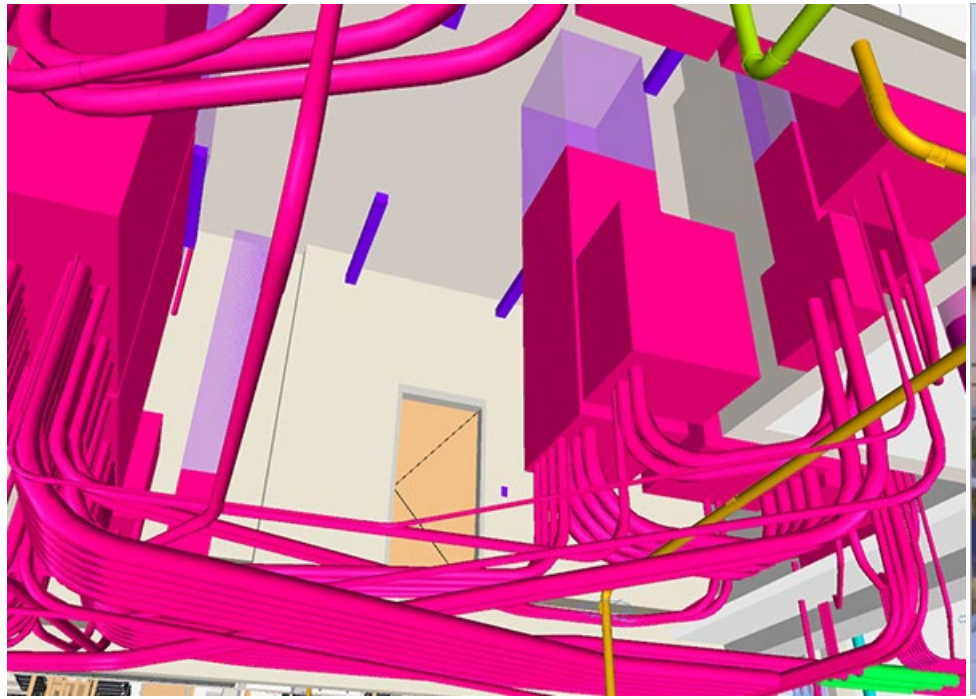


PRE-FAB WIRE SCHEDULE

| APT | CKT | # | FromDevice | RAW LENGTH | TYPE | Route | ToDevice |
|---|---|---|---|---|---|---|---|
| 5A | 8 | | 10 | 6.767 | 12/2-MC EX | OH | 9 |
| 5A | 5 | | 14 | 7.167 | 12/2-MC EX | OH | 16 |
| 5A | 8 | | 15 | 5.725 | 12/2-MC EX | IW | 9 |
| 5A | 10 | | 17 | 11.4 | 12/2-MC EX | IW | 12 |
| 5A | 5 | | 18 | 5.617 | 12/2-MC EX | IW | 16 |
| 5A | 4 | | 19 | 28.333 | 12/2-MC EX | OH | 20 |
| 5A | 2 | | 2 | 8.733 | 12/2-MC EX | OH | 1 [LF A] |
| 5A | 4 | | 22 | 4.725 | 12/2-MC EX | IW | 21 |
| 5A | 4 | | 23 | 36.725 | 12/2-MC EX | OH | 19 |
| 5A | 4 | | | 7.175 | 12/2-MC EX | IW | 22 |
| 5A | 1 | | 25 | 17.767 | 12/2-MC EX | OH | 35 |
| 5A | 1 | | | 5.25 | 12/2-MC EX | IW | 26 |
| 5A | 1 | | 26 | 9.658 | 12/2-MC EX | IW | 25 |
| 5A | 3 | | 3 | 26.708 | 12/2-MC EX | IW | 36 |
| 5A | 3 | | | 20.433 | 12/2-MC EX | OH | 41 |
| 5A | 1 | | 30 | 6.842 | 12/2-MC EX | IW | 29 |
| 5A | 1 | | 31 | 4.675 | 12/2-MC EX | IW | 30 |
| 5A | 2 | | 32 | 30.533 | 12/2-MC EX | OH | 2 [CKT#2] |
| 5A | 2 | | | 5.642 | 12/2-MC EX | IW | 33 [LF J] |
| 5A | 1 | | 34 | .642 | 12/2-MC EX | IW | 31 |
| 5A | 1 | | 35 | 19.65 | 12/2-MC EX | OH | 34 |
| 5A | 11 | | 38 | 4.833 | 12/2-MC EX | IW | 37 |
| 5A | 2 | | 4 | 4.375 | 12/2-MC EX | OH | 24 |
| 5A | 2 | | | 9.858 | 12/2-MC EX | OH | 6.1 |
| 5A | 13 | | 40A | 13.425 | 12/2-MC EX | IW | 40B |
| 5A | 6 | | 42.1 | 13.242 | 12/2-MC EX | OH | 44 [LF D] |
| 5A | 6 | | | 16.55 | 12/2-MC EX | OH | 45 [CKT#6] |
| 5A | 6 | | 42.2 | 8.617 | 12/2-MC EX | OH | 43 [LF C] |
| 5A | 2 | | 6.1 | 10.8 | 12/2-MC EX | OH | 5 [LF E] |
| 5A | 2 | | | 13.483 | 12/2-MC EX | IW | 2 [CKT#2] |
| 5A | 2 | | 6.2 | 19.925 | 12/2-MC EX | OH | 13 [LF B] |
| 5A | 3 | | 7 | 18.175 | 12/2-MC EX | OH | 36 |
| 5A | 1 | | LC | 23.367 | 12/2-MC EX | OH | 25 |
| 5A | 10 | | | 29.825 | 12/2-MC EX | OH | 12 |
| 5A | 11 | | | 20.075 | 12/2-MC EX | OH | 37 |
| 5A | 12,14 | | | 18.467 | 10/3-MC EX | OH | 39 |
| 5A | 13 | | | 14.958 | 12/2-MC EX | OH | 40B |
| 5A | 17,19 | | | 28.7 | 12/3-MC EX | OH | 27 |
| 5A | 2 | | | 17.833 | 12/2-MC EX | OH | 2 |
| 5A | 3 | | | 15.608 | 12/2-MC EX | OH | 41 |
| 5A | 4 | | | 23.292 | 12/2-MC EX | OH | 23 |
| 5A | 5 | | | 34.683 | 12/2-MC EX | OH | 16 |
| 5A | 6 | | | 13.5 | 12/2-MC EX | OH | 42.1 |
| 5A | 7 | | | 26.325 | 12/2-MC EX | OH | 11 |
| 5A | 8 | | | 26.258 | 12/2-MC EX | OH | 9 |
| 5A | 9 | | | 25.017 | 12/2-MC EX | OH | 8 |
| | | | | 721.558 | | | |

# FEATURED PROJECTS

## Bend Lapine High School, USA



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# THANK YOU

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