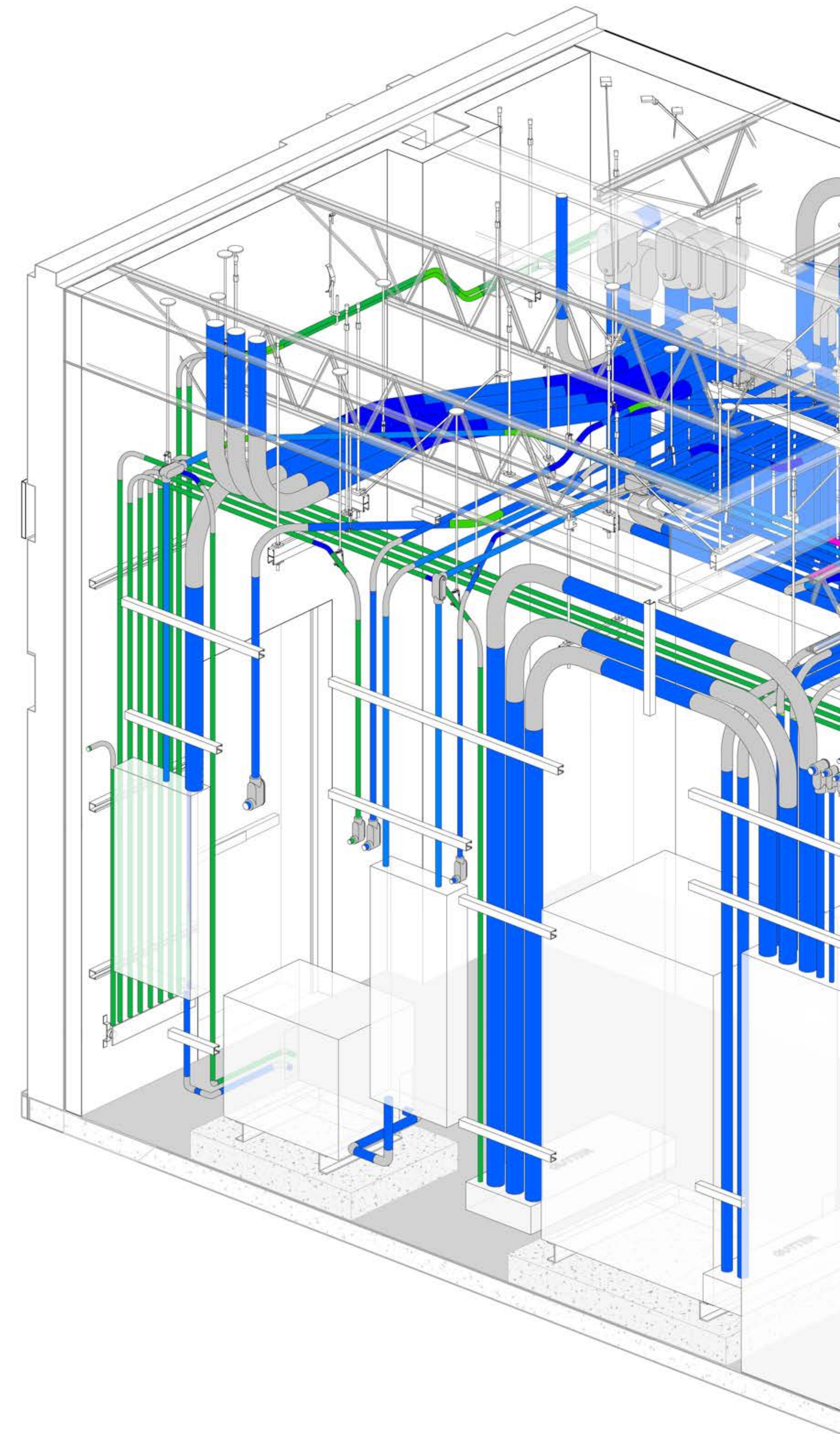




# INSTALLATION SAMPLE SET OF DRAWINGS

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# WHAT IS INSIDE?

- Sheet Index, Symbols, Abbreviations, Legends
- Power Redlines
- UG Ductbank Layout
- UG Ductbank Sections
- UG Trench Card Layout
- UG Conduit Layout
- In-Slab Conduit Layout
- Deck Penetrations
- Wall Penetrations
- Point Load
- L1 Points Layout
- Overhead Support Layout
- Overhead Support Sections
- Electrical Room Layout
- Bus Duct Layout
- Spooling Map
- Spooling Details
- Overhead Feeder Conduit Layout
- Overhead Branch Conduit Layout
- Overhead Branch Conduit Sections
- Overhead FA Conduit Layout
- Cable Tray Layout
- Cable Tray Sections
- Wall Elevations
- Lighting Layout
- Wire Pulling



San Francisco (HQ)  
201 Spear Street  
Suite 1750  
San Francisco, California





| REVISION | DESCRIPTION             | DATE     |
|----------|-------------------------|----------|
| 1        | ISSUED FOR CONSTRUCTION | 05/22/23 |
|          |                         |          |
|          |                         |          |
|          |                         |          |
|          |                         |          |
|          |                         |          |
|          |                         |          |

All drawings and written material appearing herein constitute original and unpublished work of the

FIELD APPROVAL STAMP:

|                                                                                     |             |                      |
|-------------------------------------------------------------------------------------|-------------|----------------------|
| JOB NUMBER:                                                                         |             | 00001                |
| ISSUED FOR:                                                                         |             |                      |
| DATE:                                                                               |             | 5/23/2023 3:12:37 PM |
| DRAWN BY: Author                                                                    | CHECKED BY: | Checker              |
| DRAWING SCALE:                                                                      |             | As indicated         |
| SHEET TITLE:                                                                        |             |                      |
| <p style="text-align: center;">SHEET INDEX, SYMBOLS,<br/>ABBREVIATIONS, LEGENDS</p> |             |                      |
| DRAWING NUMBER:                                                                     |             | E00-00-00.1          |

## ABBREVIATIONS

BOB = BOTTOM OF BOX  
BOC = BOTTOM OF CONDUIT  
BOR = BOTTOM OF RACK  
BOT = BOTTOM OF TRENCH  
BOV = BOTTOM OF VAULT  
CIR. = CIRCUITS  
DN = DOWN  
HR = HOMERUN  
JB = JUNCTION BOX  
KICK = CONDUIT KICK  
OFFSET = CONDUIT OFFSET  
PC = PULL CAN  
TC = TAP CAN  
TOB = TOP OF BOX  
TOC = TOP OF CONDUIT  
TOR = TOP OF RACK  
TOT = TOP OF TRENCH  
TOV = TOP OF VAULT  
TRNCH = TRENCH  
TYP. = TYPICAL

CS# = CHARGING STATION POINT  
CP# = CONTROL POINT

 11.25° BEND  
 15° BEND  
 22.50° BEND  
 30° BEND  
 45° BEND  
 NON-STANDART BEND

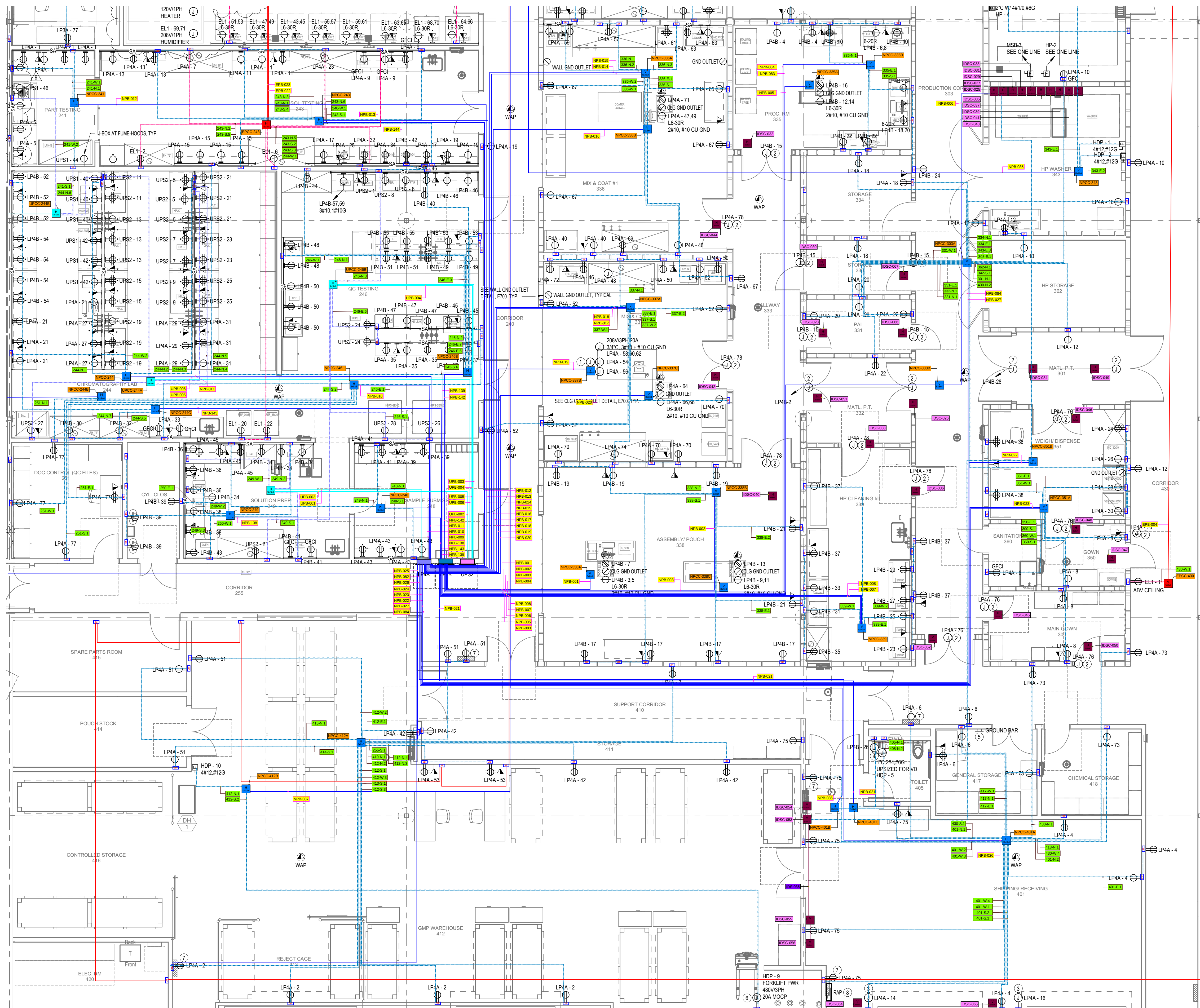
|                                                                                     |                                             |
|-------------------------------------------------------------------------------------|---------------------------------------------|
|  | CPH - TRIMBLE CONTROL POINT                 |
|  | IP1 - TRIMBLE INTERSECTION POINT            |
|  | SLVH - TRIMBLE SLEEVE POINT                 |
|  | BOX - TRIMBLE BLOCKOUT CORNERS POINT        |
|  | OC6GH - TRIMBLE OCTAGON POINT               |
|  | POWDOWN - TRIMBLE POWER STUB DOWN POINT     |
|  | POWUPH - TRIMBLE POWER STUB UP POINT        |
|  | FADNH - TRIMBLE FIRE STUB DOWN POINT        |
|  | FALUPH - TRIMBLE FIRE STUB UP POINT         |
|  | ERRCSHD - TRIMBLE ERRCS STUB DOWN POINT     |
|  | JBOXH - TRIMBLE J-BOX DOWN POINT            |
|  | DATADNH - TRIMBLE DATA STUB DOWN POINT      |
|  | DATADUPH - TRIMBLE DATA STUB UP POINT       |
|  | HSKPH - TRIMBLE HSK PAD POINT               |
|  | GRNDH - TRIMBLE GROUNDING STUB DOWN POINT   |
|  | GRNDUPH - TRIMBLE GROUNDING STUB UP POINT   |
|  | FBOXH - TRIMBLE FLOOR BOX CORNER POINT      |
|  | FBOXH - TRIMBLE SLEEVE FOR FLOOR BOX        |
|  | FBOXH - TRIMBLE SLEEVE FOR FLOOR BOX        |
|  | GENH - TRIMBLE GENERATOR CORNERS POINT      |
|  | PBPH - TRIMBLE PORE BREAK POINT             |
|  | 2WCONH - TRIMBLE 2 WAY COMM STUB DOWN POINT |
|  | 2WCUUPH - TRIMBLE 2 WAY COMM STUB UP POINT  |
|  | CONDNH - TRIMBLE CO-NETWORK STUB DOWN POINT |
|  | CONDUPH - TRIMBLE CO-NETWORK STUB UP POINT  |
|  | BOXH - TRIMBLE BOX - 4 1/16" POINT          |
|  | BLBL - TRIMBLE LIGHTING BLUEBANGER SUPPORT  |
|  | BBH - TRIMBLE BLUEBANGER SUPPORTS POINT     |
|  | BBSH - TRIMBLE BLUEBANGER SEISMIC SUPPORT   |



# POWER REDLINES



201 Spear Street, Suite 1750  
San Francisco, CA 94105



## GENERAL NOTES

- ALL WORK SHOWN IN BOLD IS NEW AND PART OF THIS PROJECT SCOPE. ALL EXISTING WORK IS SHOWN HALF TONED, U.O.N.
- FOR ALL 120V, 1-PHASE, 20A CIRCUITS, PROVIDE 3/4" C, 2#12, #12G CU, U.O.N ON PLANS. FOR ALL 208V, 1-PHASE, 20A CIRCUITS, PROVIDE 3/4" C, 3#12, #12G CU, U.O.N ON PLANS.
- INDICATE CIRCUIT NUMBER AND PANEL NAME ON ALL POWER CONNECTIONS. PROVIDE RED COLOR FACE PLATES FOR CIRCUITS FED VIA GENERATOR BACKED PANELS.
- ALL ELECTRICAL OUTLETS WITHIN 6" FROM SINK TO BE GFCI PROTECTED, EITHER LOCALLY VIA OUTLET OR AT CIRCUIT BREAKER.
- ALL SURFACE MOUNTED DEVICES SHOWN ON WALLS WITH WIRE MOLD TO BE INCLUDED IN WIRE MOLD, U.O.N.
- WIRE MOLD SHOWN WITHOUT HOST WALL TO BE MOUNTED ON UNISTRUT FRAME, U.O.N. COORDINATE W/ GC.
- REFER TO PANEL SCHEDULES FOR VOLTAGE DROP CALCULATIONS.
- IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, WHERE POSSIBLE. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.
- SEE PANEL SCHEDULES, EQUIPMENT SCHEDULE, AND SINGLE LINE FOR ADDITIONAL INFORMATION ON WIRING, LAYOUT AND CONNECTIONS. CEILING OUTLETS SHOWN NEAR CEILING SERVICE PANELS (CSP) TO BE INCLUDED IN CSP, U.O.N. COORDINATE W/ GC. ALL 120V/1PHASE CSP RECEPTACLE OUTLETS ARE TO BE NEMA L5-20R UNLESS OTHERWISE NOTED. ALL 208V/1PHASE CSP RECEPTACLE OUTLETS ARE TO BE NEMA L6-20R UNLESS OTHERWISE NOTED.
- COORDINATE AV AND SECURITY REQUIREMENTS WITH AV AND SECURITY VENDORS RESPECTIVELY.
- PROVIDE #6 CU IN 3/4" FROM NEAREST GROUND BAR TO EACH GND OUTLET, TYPICAL U.O.N. SEE ALSO GND DETAILS, E700.
- PROVIDE 120VAC POWER TO FSDS, MILLIGS, AND INSECT LIGHTS. REFER TO ARCH & MECH DWGS FOR LOCATIONS.

## KEYNOTES

AREA 4

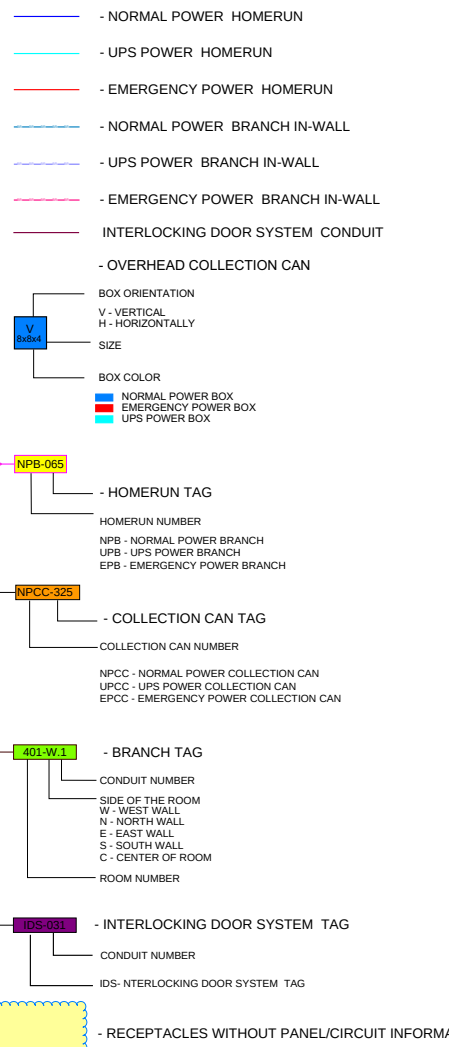
- PROVIDE THE FOLLOWING SYSTEM CONNECTIONS VIA UTILITY CHASE TO DRUG COATER SYSTEM EQUIPMENT: (1) 20A, 208V, 3PH, (DRUG COATER EQUIPMENT), (2) 20A, 120V, 1PH (TO FOUR (4) DUPLEX OUTLETS), (1) DATA DROP RACEWAY (4 DATA DROPS), (1) STATIC DISCHARGE GROUND REEL.
- CONNECT INTERLOCKING DOOR SYSTEM. VERIFY EXACT REQUIREMENTS WITH SYSTEM SUPPLIER/INSTALLER.
- PROVIDE POWER CONNECTION TO DOORS. VERIFY CONNECTION REQUIREMENTS WITH MANUFACTURER.
- PROVIDE 120VAC POWER CONNECTION TO FAUCET AND SOAP DISPENSER.
- GROUND BAR 'GB-1'. PROVIDE ONE (1) 1" W/ #2/0 CU GND TO MAIN SWITCHBOARD MSB'S GROUND BUS.
- 480V, 3PH CONNECTION TO FORKLIFT CHARGER. COORDINATE CONNECTION, CONDUCTOR SIZE, AND BREAKER SIZE WITH MANUFACTURER. FORKLIFT CHARGING DEVICES ELECTRICAL CONNECTION IS CUSTOM DESIGN PER PROJECT.
- PROVIDE 120V POWER TO INSECT LIGHT. PROVIDE RECESSED OUTLET MOUNTED AT 4'4" AFF.
- GENERATOR REMOTE ALARM PANEL. SEE GENSET DETAIL FOR MORE INFORMATION. SEE ARCH PLANS FOR ELEVATIONS.

| DATE     | DESCRIPTION | ISSUED FOR CONSTRUCTION |
|----------|-------------|-------------------------|
| 05/22/23 |             |                         |
| 1        |             |                         |

BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

## LEGEND:



ORIGINAL PRINT SIZE = 36x48

KEY PLAN:

|                  |                      |
|------------------|----------------------|
| JOB NUMBER:      | 00001                |
| ISSUED FOR:      |                      |
| DATE:            | 5/23/2023 3:12:38 PM |
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POWER REDLINES

DRAWING NUMBER: PR-01-01



# UG DUCTBANK LAYOUT



201 Spear Street, Suite 1750  
San Francisco, CA 94105

| DATE                    | 05/22/23 |
|-------------------------|----------|
| REVISION                |          |
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| 1                       |          |

BIM COORDINATOR APPROVAL STAMP:

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LEGEND:

LEGEND

DUCT BANK  
DUCT BANK WITH SLOPE

CONDUIT AND BOX COLOR  
LEGEND BY SYSTEM

POWER  
LIGHTING  
FIRE ALARM  
SECURITY  
TEMP POWER  
GROUNDING  
TELECOM  
RADIO REPEATER  
COMMUNICATION CONTROL

CONDUIT BEND  
COLOR LEGEND

0-10° BEND (UNDERGROUND ONLY)  
11.25° BEND  
15° BEND  
22.50° BEND  
30° BEND  
45° BEND  
NON-STANDARD BEND

## GENERAL NOTES:

- ALL DIMENSIONS ARE IN FEET-INCHES.
- ALL ELEVATIONS IN PLAN AND SECTION VIEW ARE FROM FFL (SEA LEVEL).
- GRIDS V.1-V.12 ARE USED ONLY FOR DUCT BANKS PLACING AND MUST BE PLACED MANUALLY.
- LOCATION OF VAULTS TO BE FIELD COORDINATE. TYP. 3' DISTANCE FROM OUTER EDGE OF REBAR REINFORCEMENT TO EDGE OF THE DUCT BANK PER EM1153.
- ANY DUCTBANK FROM BUILDING TO MANHOLE = START SLOPE 20' FROM MANHOLE 1/4" EVERY 10'

## SHEET NOTES:

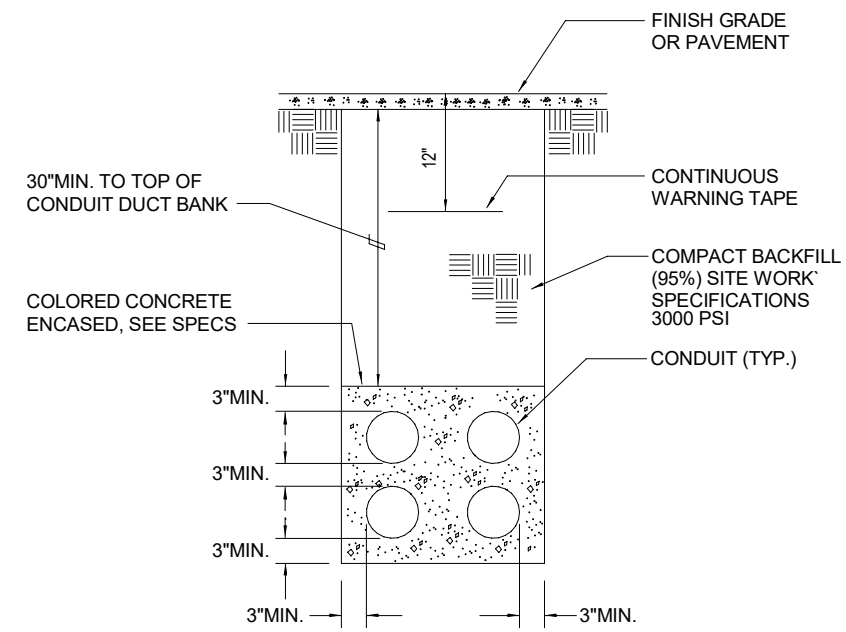
- CONDUITS CC-009FP910-FB1 AND CC-009FACU-FB2 WERE MOVED FROM DUCT BANK BA/BC/BE TO DUCT BANK BA.1 REFER TO SECTION 8
- PER RF1 1644, FOR DUCTBANKS CROSSING BELOW PILE SUPPORTED SLABS, EXPANSION JOINT LOCATIONS SHALL BE FIELD COORDINATED TO BE INSTALLED BETWEEN HANGAR SUPPORTS TO ACCOMMODATE CONDUIT BENDS AND FITTINGS

| ABBREVIATION |                      |
|--------------|----------------------|
| B.O.C        | BOTTOM OF CONDUIT    |
| B.O.B        | BOTTOM OF DUCT BANK  |
| FFL          | FINISHED FLOOR LEVEL |
| H            | HEIGHT OF DUCT BANK  |
| W            | WIDTH OF DUCT BANK   |

| TRENCH SCHEDULE |            |          |         |       |           |
|-----------------|------------|----------|---------|-------|-----------|
| Mark            | Volume, CY | Area, SF | Width   | Depth | Length    |
| TR-1            | 69.63      | 470.0    | 40 1/2" | 48"   | 139' - 2" |
| TR-2            | 82.57      | 405.3    | 26"     | 66"   | 187' - 1" |

| DUCT BANK SCHEDULE |                      |                     |         |       |               |                     |
|--------------------|----------------------|---------------------|---------|-------|---------------|---------------------|
| Mark               | Duct Bank Volume, CY | Concrete Volume, CY | Width   | Depth | Length        | Bottom of Duct Bank |
| DB-1               | 34.81                | 27.67               | 40 1/2" | 24"   | 139' - 2"     | -4' - 0"            |
| DB-2               | 26.50                | 21.79               | 26"     | 21"   | 188' - 8 3/4" | -5' - 6"            |

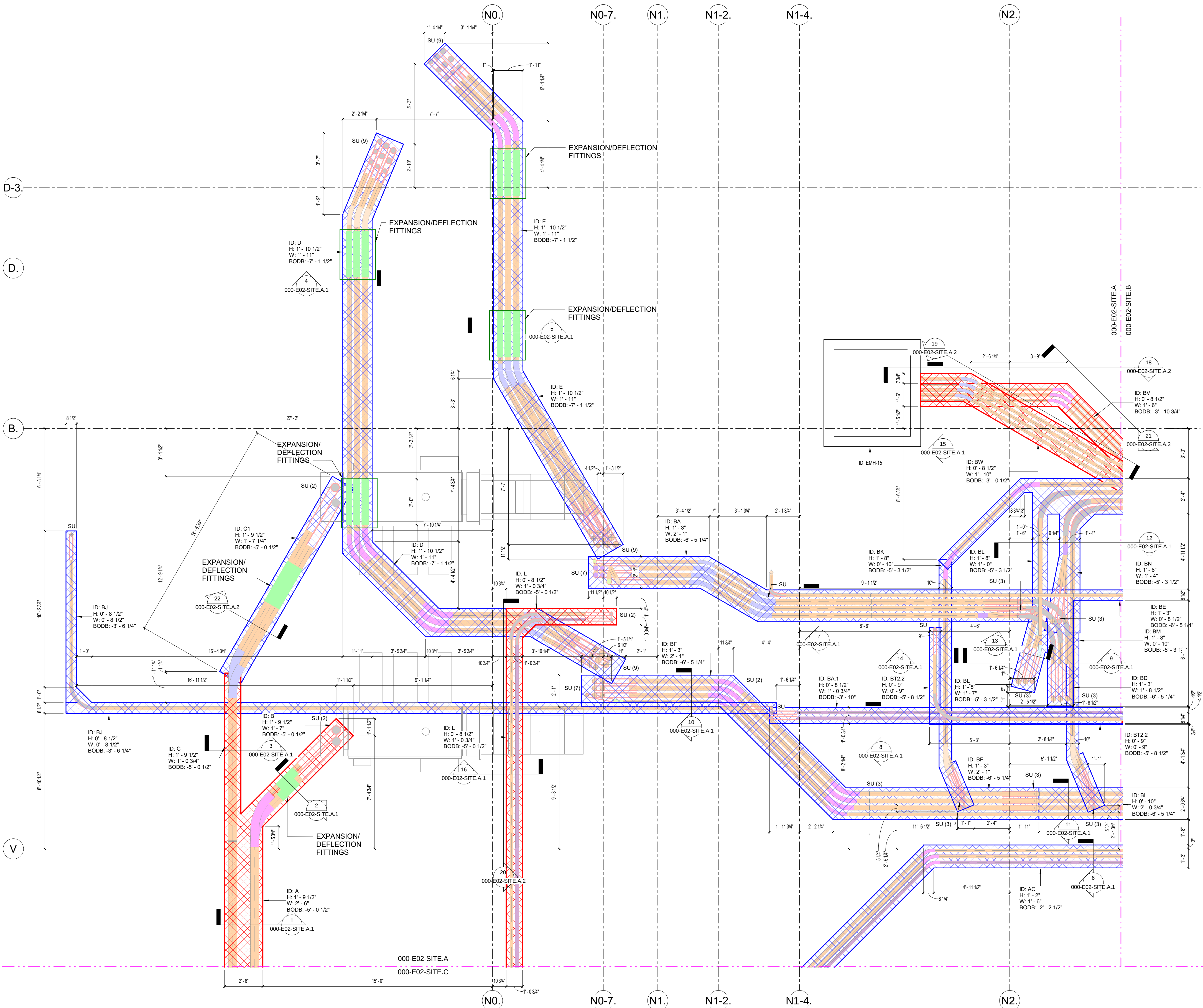
|                          |       |
|--------------------------|-------|
| Concrete, CY             | 49.45 |
| Total Backfill Space, CY | 90.89 |
| Dry Sand Backfill, CY    | 24.31 |
| Dry Sand Backfill, Tons  | 32.82 |



## NOTES FROM SPECIFICATIONS

### 2.1 MATERIALS

- A. General:
- Backfill materials will be subject to approval of the Engineer.
  - For approval of backfill fill material, notify the Geotechnical Engineer of Record at least 7 days in advance of intention to import material.
  - Consideration shall also be given to the environmental characteristics as well as the corrosion potential of backfill materials. Laboratory testing, including pH, soluble sulfates, chlorides, and resistivity shall be reviewed. Backfill materials shall not be more corrosive than the native materials.
  - All imported materials, including pipe bedding shall have a pH between 6 and 8.
- a. Place minimum 3 inches of sand as a bed for duct. Place sand to a minimum of 6 inches above top level of duct.



1 DUCT BANK LAYOUT - SITE - AREA A  
3/8" = 1'-0"

UG DUCTBANK LAYOUT

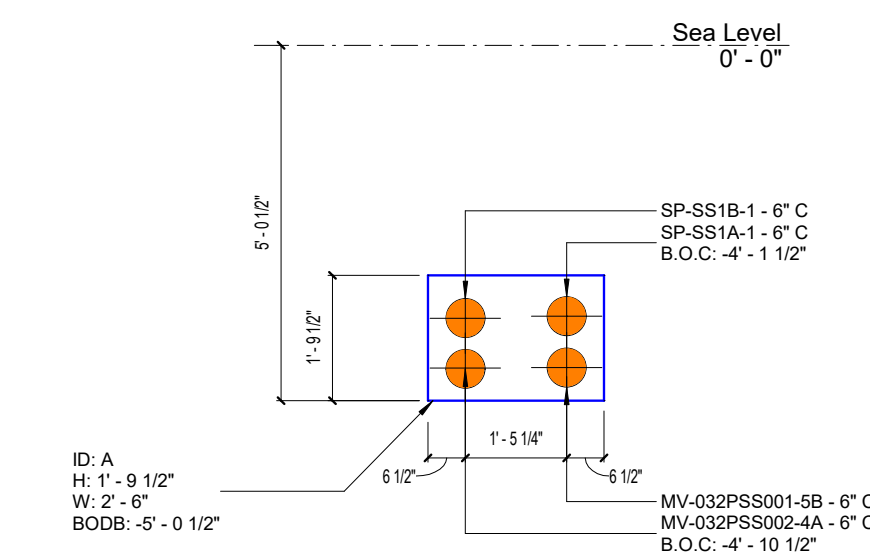
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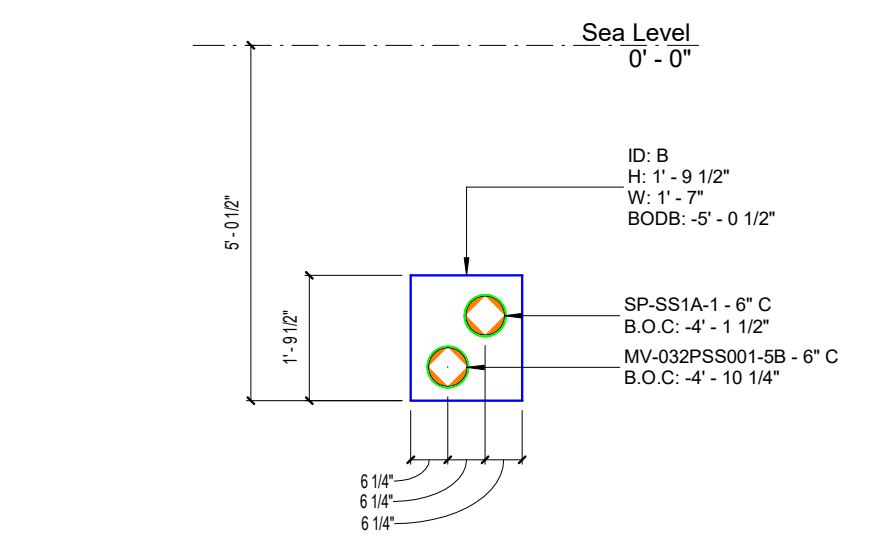
# UG DUCTBANK SECTIONS



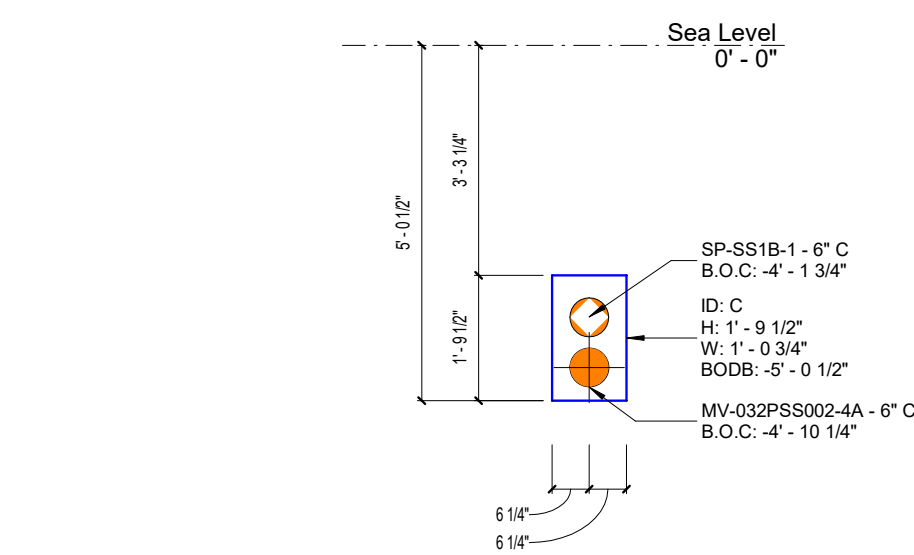
201 Spear Street, Suite 1750  
San Francisco, CA 94105



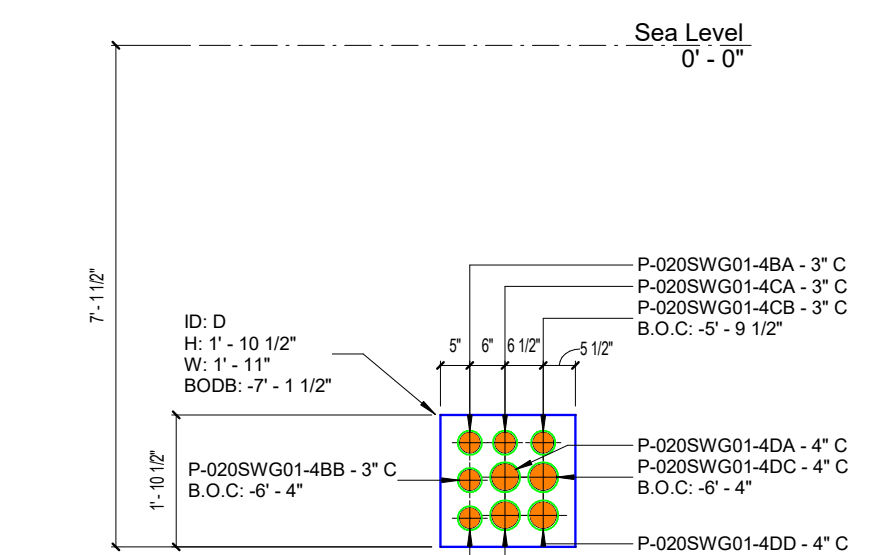
1 DUCT BANK LAYOUT - SITE - AREA A - DB A  
1/2" = 1'-0"



2 SITE - AREA A - DUCT BANK LAYOUT - DB B  
1/2" = 1'-0"



3 SITE - AREA A - DUCT BANK LAYOUT - DB C  
1/2" = 1'-0"



4 SITE - AREA A - DUCT BANK LAYOUT - DB D  
1/2" = 1'-0"

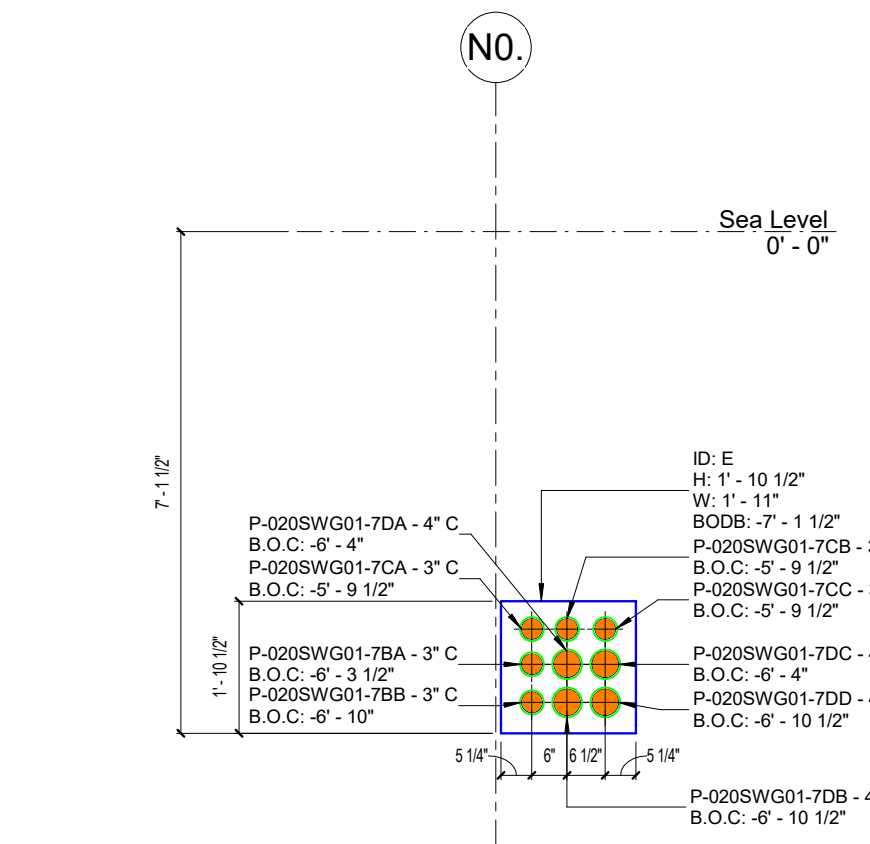
## GENERAL NOTES:

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- ANY DUCTBANK FROM BUILDING TO MANHOLE = START SLOPE 20' FROM MANHOLE 1/4" EVERY 10'

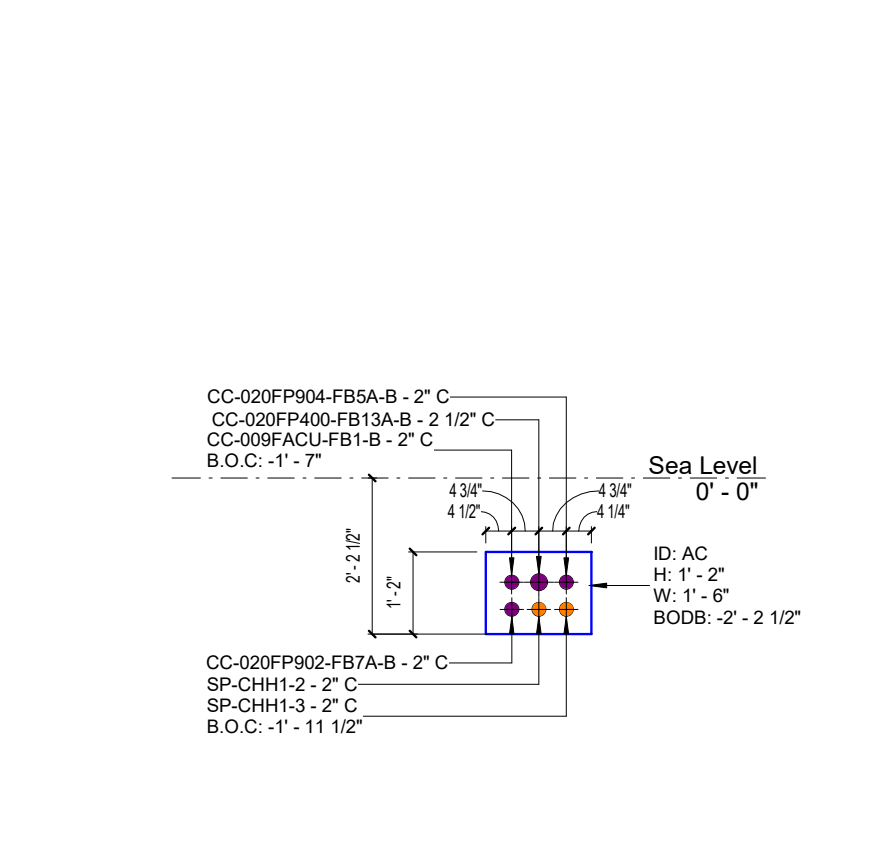
## SHEET NOTES:

- CONDUITS CC-009FP910-FB1 AND CC-009FACU-FB2 WERE MOVED FROM DUCT BANK BA/BC/BE TO DUCT BANK BA.1 REFER TO SECTION 8

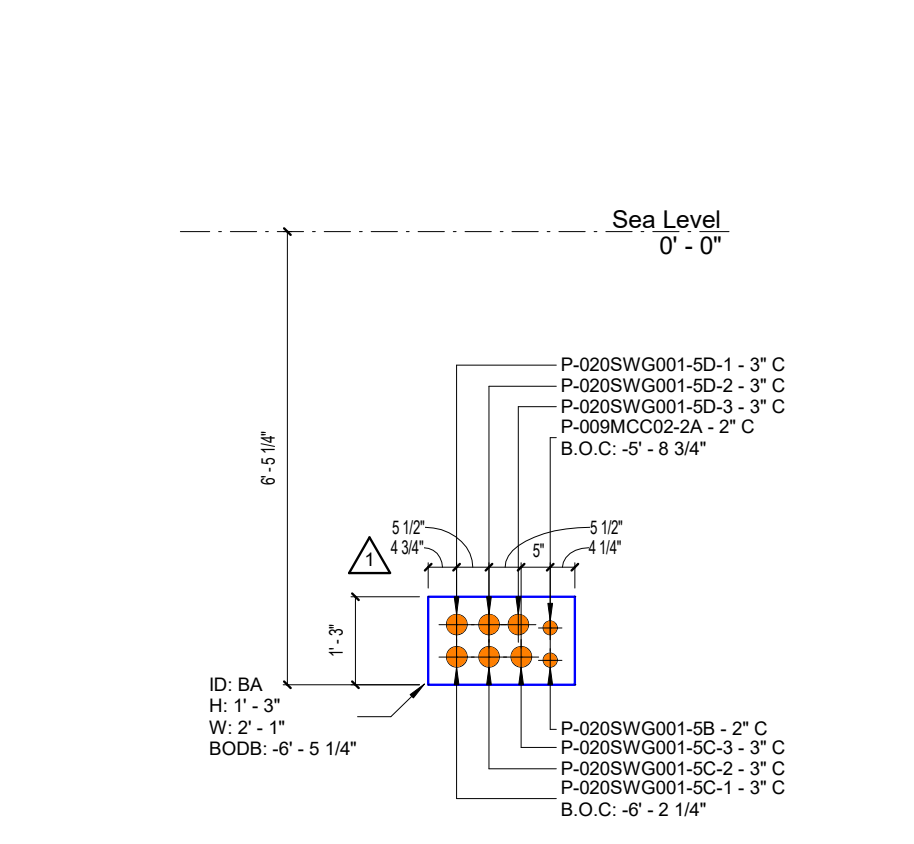
| ABBREVIATION              |
|---------------------------|
| B.O.C. BOTTOM OF CONDUIT  |
| BODB. BOTTOM OF DUCT BANK |
| FFL FINISHED FLOOR LEVEL  |
| H HEIGHT OF DUCT BANK     |
| W WIDTH OF DUCT BANK      |



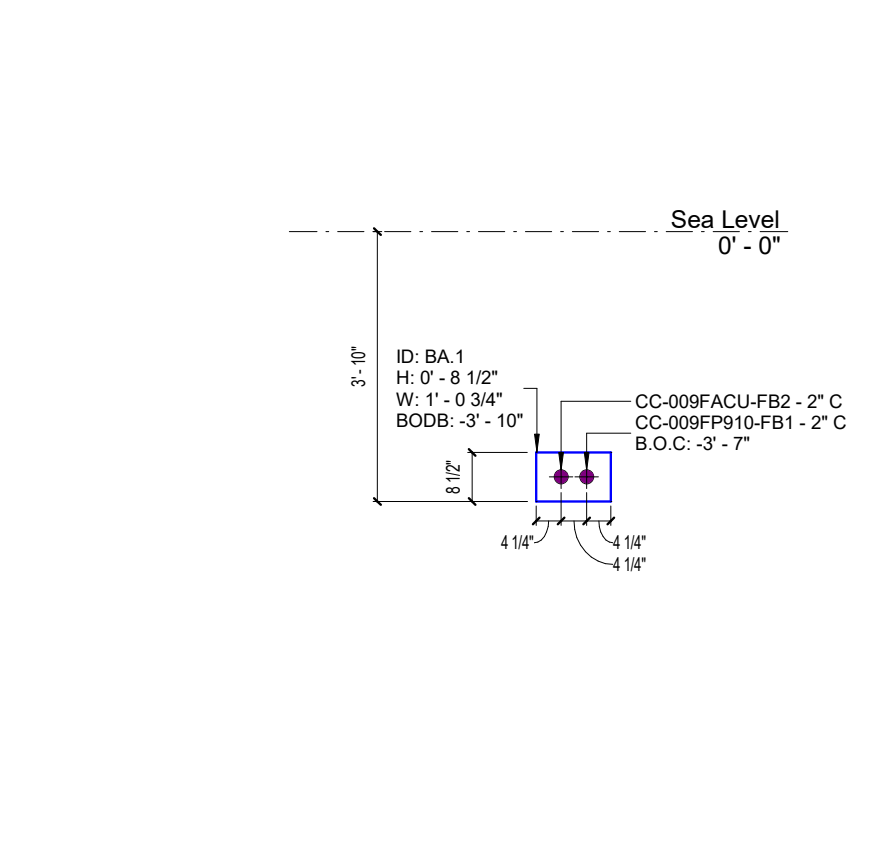
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1/2" = 1'-0"



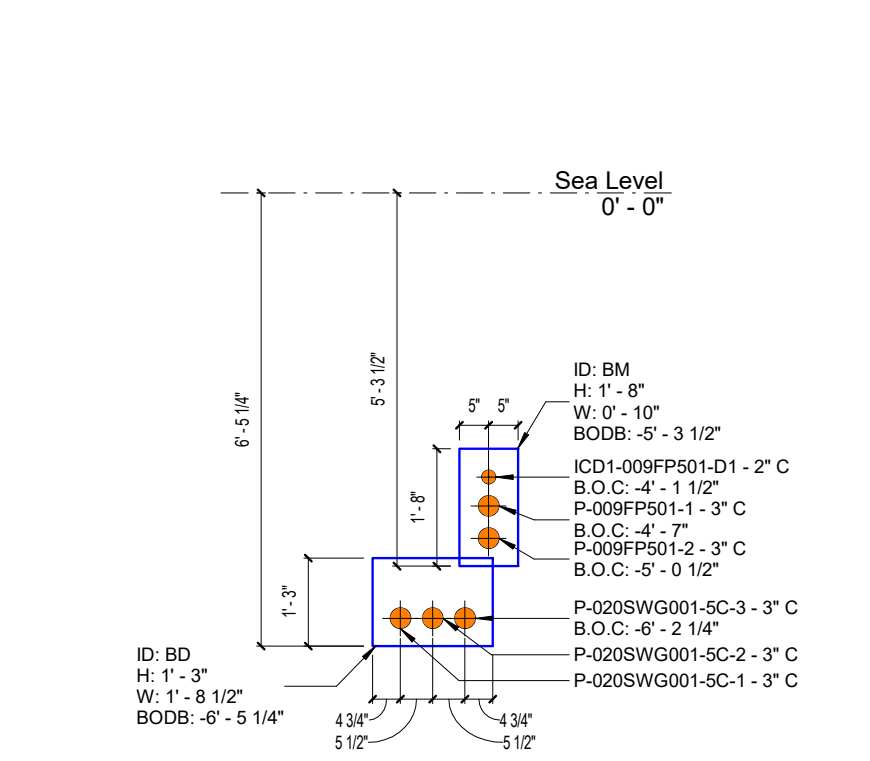
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1/2" = 1'-0"



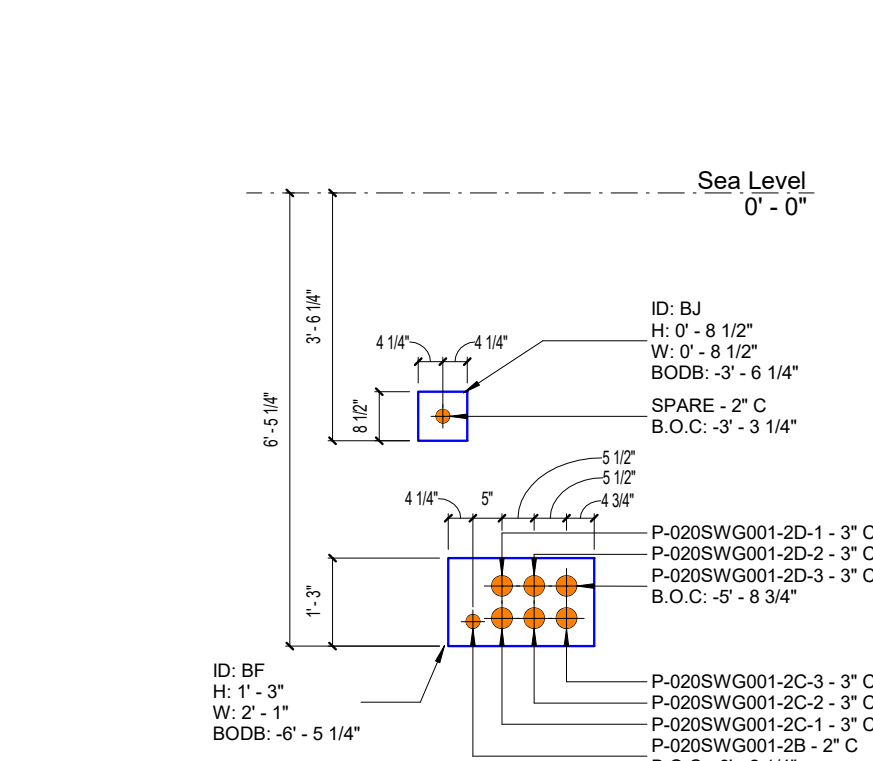
7 SITE - AREA A - DUCT BANK LAYOUT - DB BA  
1/2" = 1'-0"



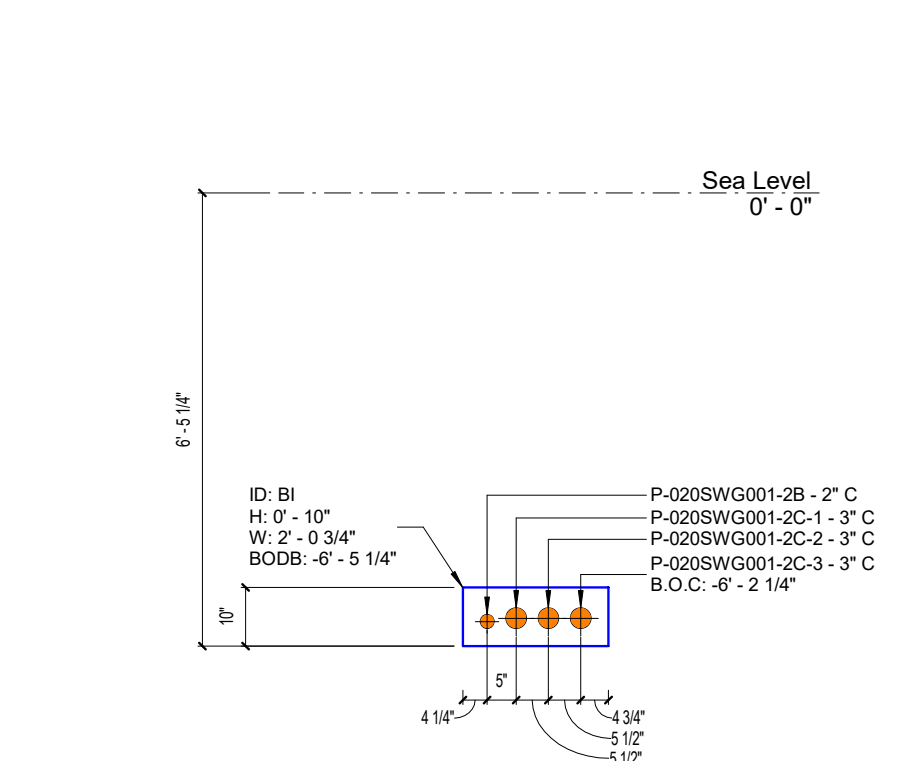
8 SITE - AREA A - DUCT BANK LAYOUT - DB BA.1  
1/2" = 1'-0"



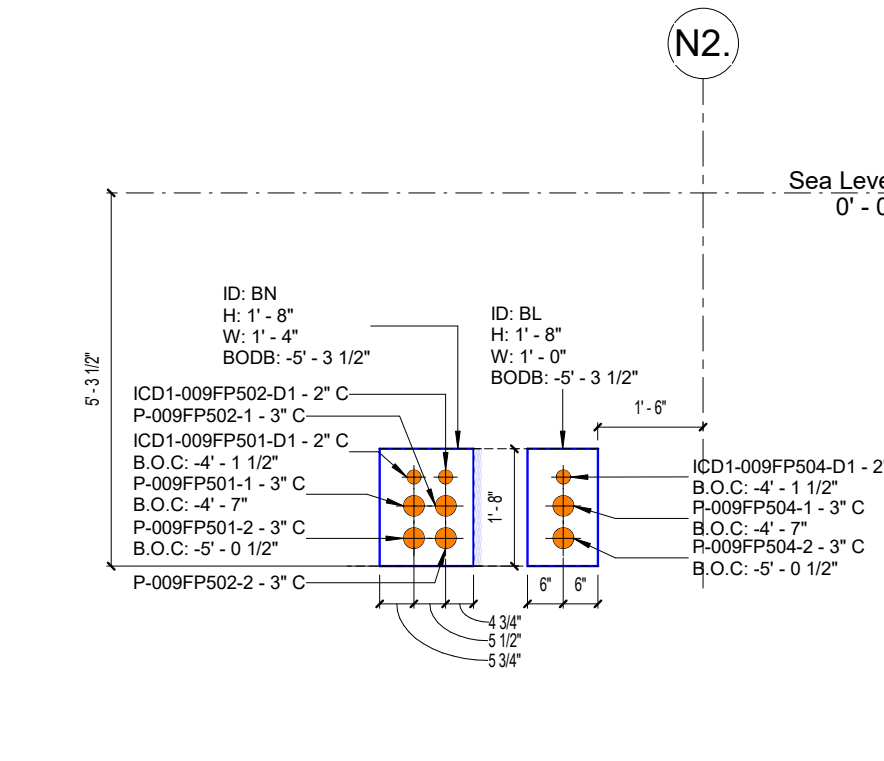
9 SITE - AREA A - DUCT BANK LAYOUT - DB BD & DB BM  
1/2" = 1'-0"



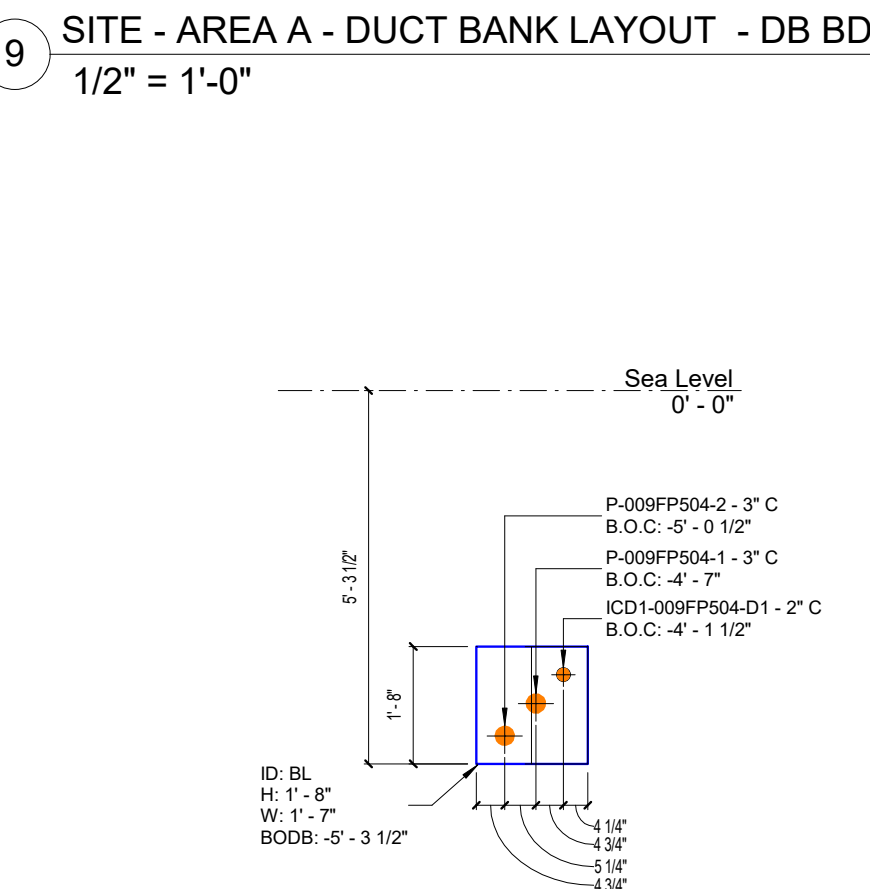
10 SITE - AREA A - DUCT BANK LAYOUT - DB BF & BJ  
1/2" = 1'-0"



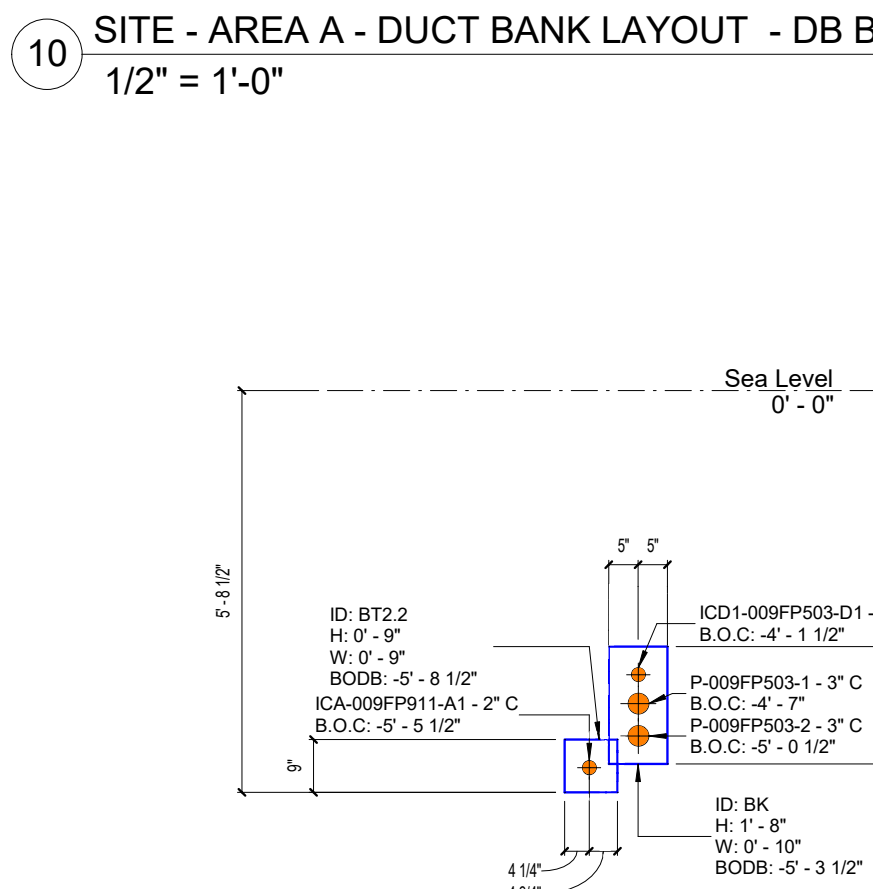
11 SITE - AREA A - DUCT BANK LAYOUT - DB BI  
1/2" = 1'-0"



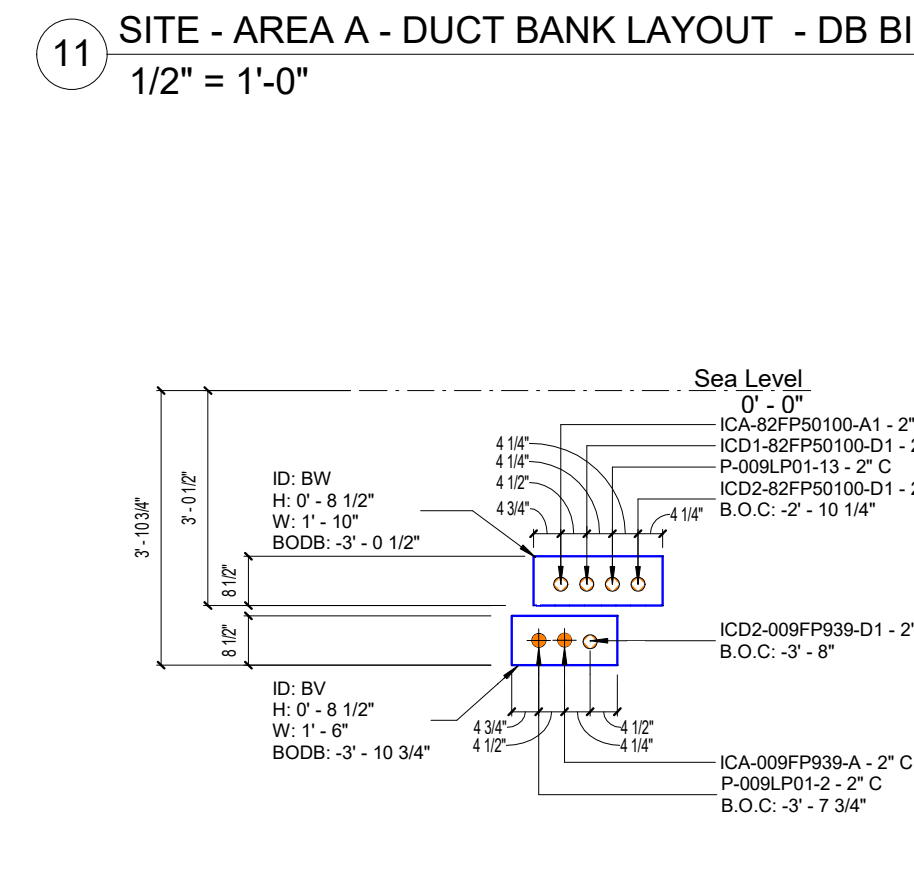
12 SITE - AREA A - DUCT BANK LAYOUT - DB BN & DB BL  
1/2" = 1'-0"



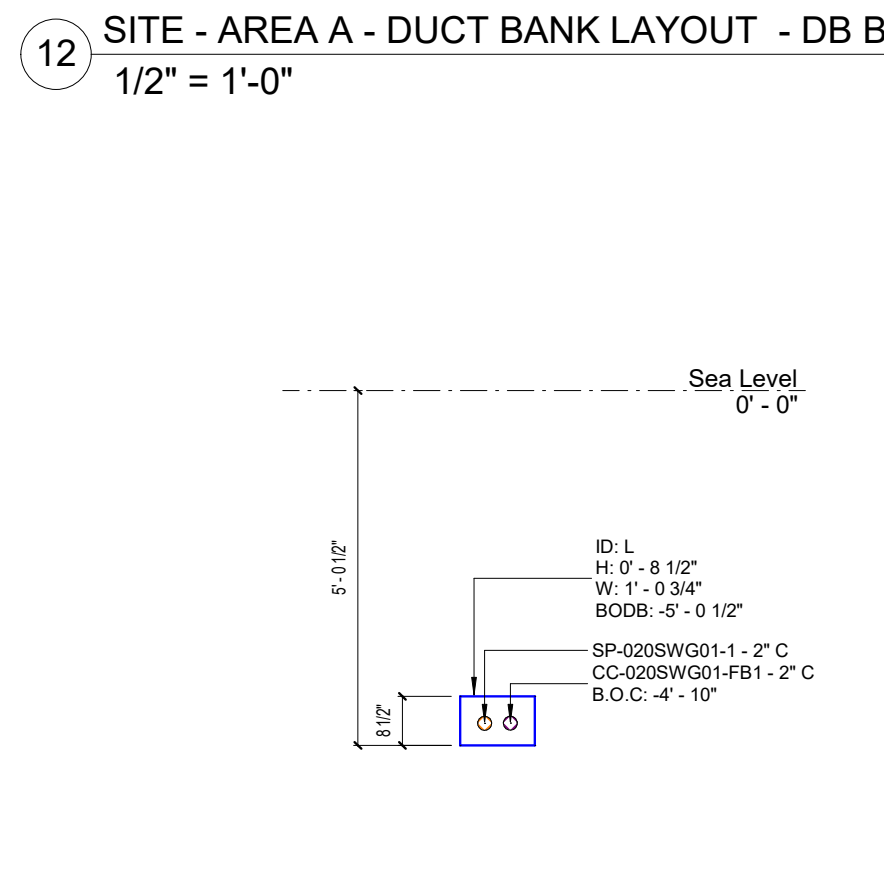
13 SITE - AREA A - DUCT BANK LAYOUT - DB BL  
1/2" = 1'-0"



14 SITE - AREA A - DUCT BANK LAYOUT - DB BT2.2 & DB BK  
1/2" = 1'-0"



15 SITE - AREA A - DUCT BANK LAYOUT - DB BV & BW  
1/2" = 1'-0"



16 SITE - AREA A - DUCT BANK LAYOUT - DB L  
1/2" = 1'-0"

| DATE     | DESCRIPTION             | REVISION |
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| 05/22/23 | ISSUED FOR CONSTRUCTION | 1        |

BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

## LEGEND:

### CONDUIT AND BOX COLOR LEGEND BY SYSTEM

- POWER
- LIGHTING
- FIRE ALARM
- SECURITY
- TEMP POWER
- GROUNDING
- TELECOM
- RADIO REPEATER
- COMMUNICATION CONTROL

### CONDUIT BEND COLOR LEGEND

- 11.25° BEND (UNDERGROUND ONLY)
- 15° BEND
- 22.50° BEND
- 30° BEND
- 45° BEND
- NON-STANDARD BEND

ORIGINAL PRINT SIZE = 36x48

KEY PLAN:

|                  |                      |
|------------------|----------------------|
| JOB NUMBER:      | 00001                |
| ISSUED FOR:      |                      |
| DATE:            | 5/23/2023 3:12:37 PM |
| DRAWN BY: Author | CHECKED BY: Checker  |
| DRAWING SCALE:   | As indicated         |
| SHEET TITLE:     |                      |

UG DUCTBANK SECTIONS

DRAWING NUMBER: E02-00-02



# UG TRENCH CARD LAYOUT



201 Spear Street, Suite 1750  
San Francisco, CA 94105

| DATE        | 05/22/23                |
|-------------|-------------------------|
| REVISION    | 1                       |
| DESCRIPTION | ISSUED FOR CONSTRUCTION |

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BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

## LEGEND:

### GENERAL NOTES

LEVEL 01 ELEVATION OF 00' - 00" IS TAKEN AS A REFERENCE FOR:

BOTTOM OF CONDUIT (BOC),  
BOTTOM OF DUCT BANK (BODB),  
BOTTOM OF TRENCH (BOT).

### COLOR LINE LEGEND

4' - 0" SPACE AROUND DUCT BANK

### DUCT BANK TAG

BOT: -X' - XX" - BOTTOM OF TRENCH  
DB SIZE: W"xH" - DUCT BANK SIZE

### TRENCH CARD TAG

T-XX  
NUMBER  
TRENCH CARD

### OPENING SIZE TAG

(X) XX"  
SIZE  
COUNT

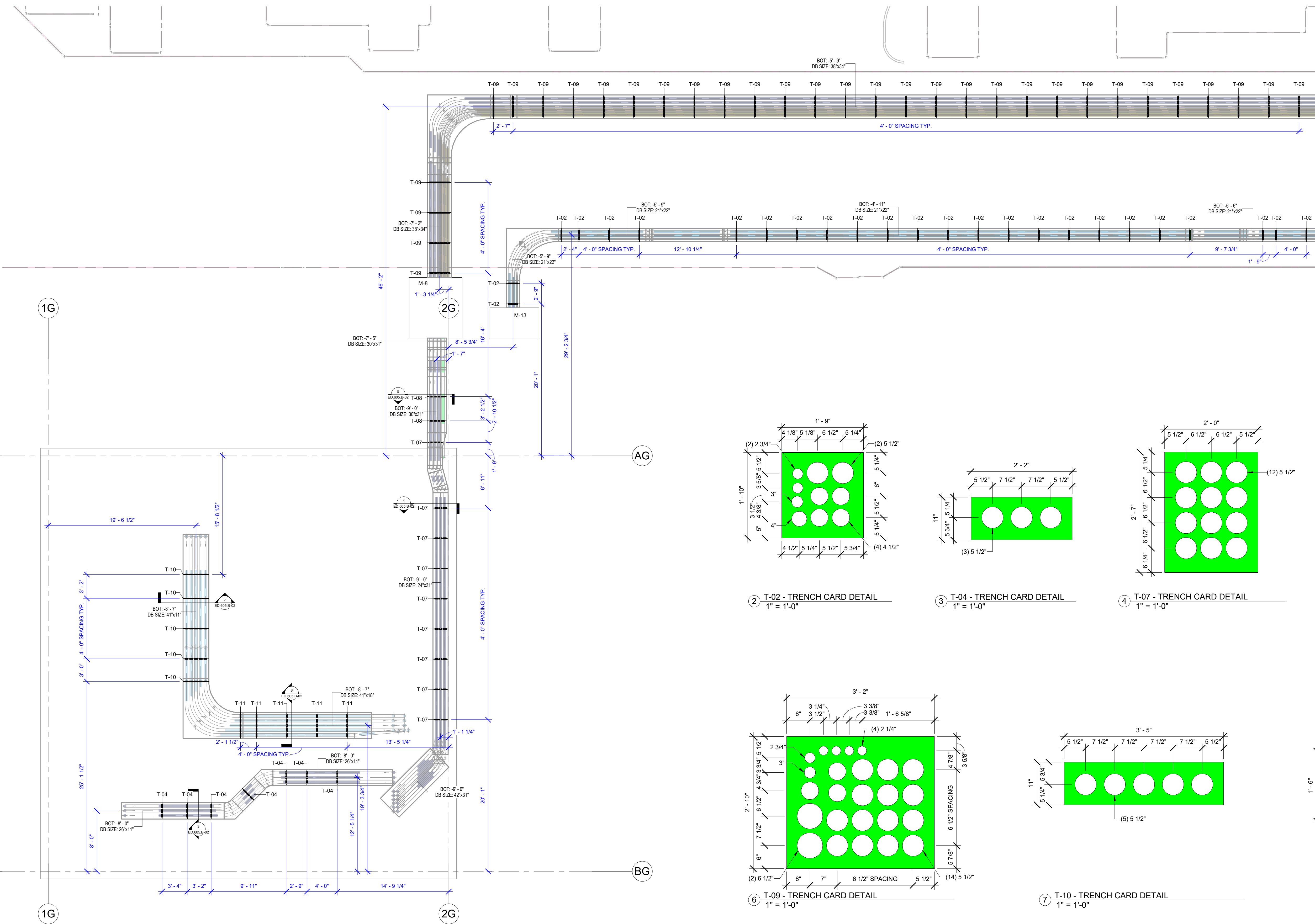
ORIGINAL PRINT SIZE = 36x48

KEY PLAN:

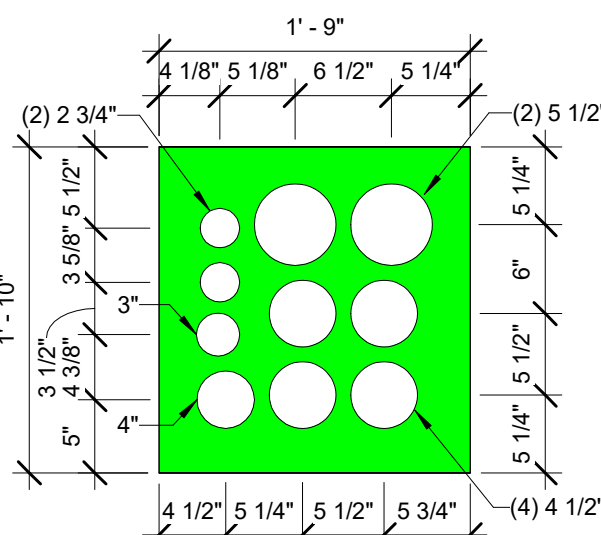
JOB NUMBER: 00001  
ISSUED FOR:  
DATE: 5/23/2023 3:12:38 PM  
DRAWN BY: Author  
CHECKED BY: Checker  
DRAWING SCALE: As indicated  
SHEET TITLE:

UG TRENCH CARD LAYOUT

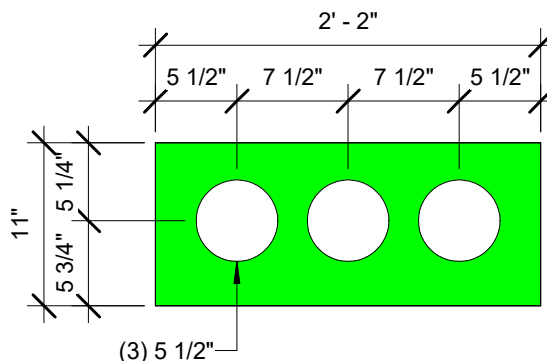
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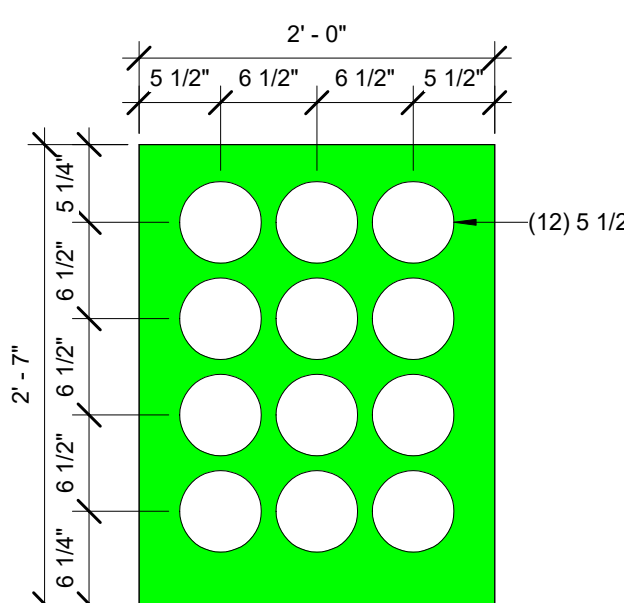
| UNDERGROUND TRENCH CARDS SCHEDULE |          |          |       |
|-----------------------------------|----------|----------|-------|
| TAG ID                            | HEIGHT   | WIDTH    | COUNT |
| T-01                              | 0' - 9"  | 1' - 2"  | 67    |
| T-02                              | 1' - 10" | 1' - 9"  | 63    |
| T-03                              | 0' - 9"  | 2' - 1"  | 12    |
| T-04                              | 0' - 11" | 2' - 2"  | 7     |
| T-05                              | 1' - 0"  | 2' - 3"  | 13    |
| T-07                              | 2' - 7"  | 2' - 0"  | 9     |
| T-08                              | 2' - 7"  | 2' - 6"  | 2     |
| T-09                              | 2' - 10" | 3' - 2"  | 73    |
| T-09A                             | 2' - 10" | 3' - 2"  | 1     |
| T-10                              | 0' - 11" | 3' - 5"  | 5     |
| T-11                              | 1' - 6"  | 3' - 5"  | 5     |
| T-12                              | 0' - 11" | 4' - 0"  | 3     |
| T-13                              | 1' - 0"  | 4' - 7"  | 7     |
| T-14                              | 0' - 9"  | 4' - 10" | 1     |
| T-15                              | 0' - 11" | 4' - 10" | 17    |
| T-17                              | 0' - 11" | 5' - 5"  | 26    |
| T-18                              | 1' - 9"  | 5' - 9"  | 13    |
| T-19                              | 0' - 11" | 5' - 11" | 5     |



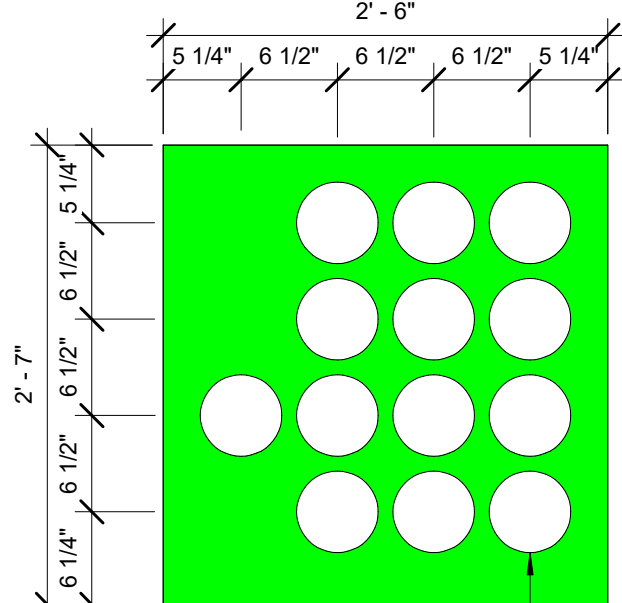
② T-02 - TRENCH CARD DETAIL  
1" = 1'-0"



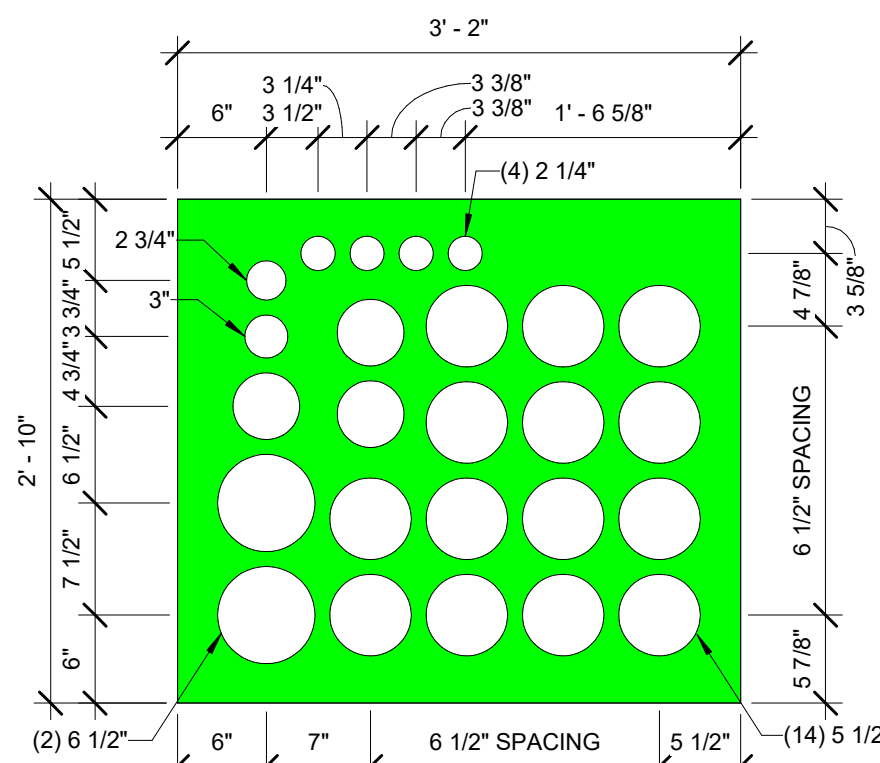
③ T-04 - TRENCH CARD DETAIL  
1" = 1'-0"



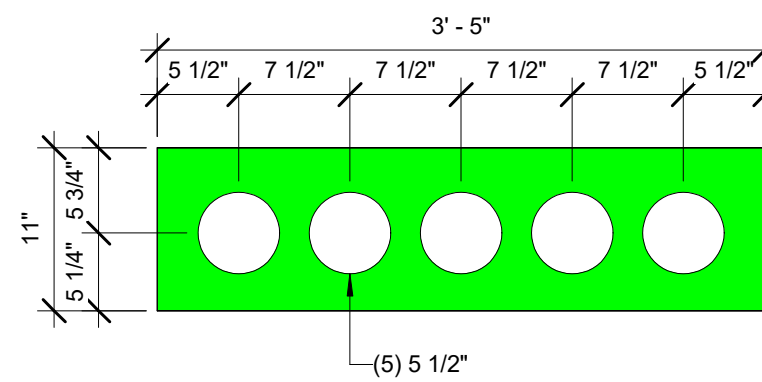
④ T-07 - TRENCH CARD DETAIL  
1" = 1'-0"



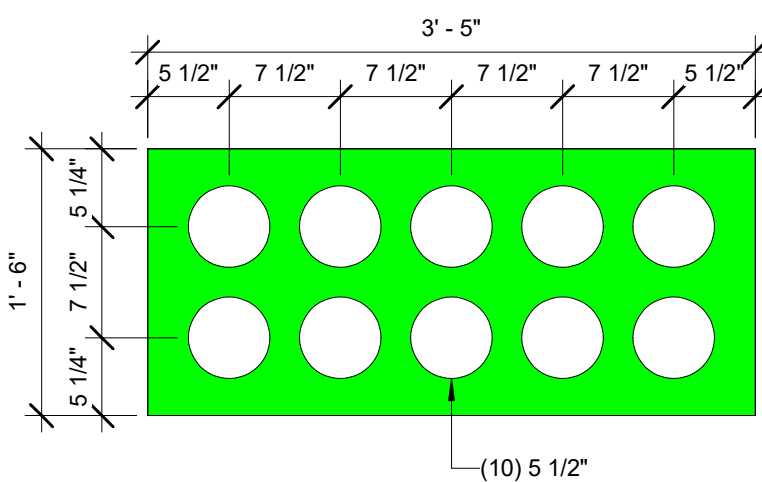
⑤ T-08 - TRENCH CARD DETAIL  
1" = 1'-0"



⑥ T-09 - TRENCH CARD DETAIL  
1" = 1'-0"



⑦ T-10 - TRENCH CARD DETAIL  
1" = 1'-0"



⑧ T-11 - TRENCH CARD DETAIL  
1" = 1'-0"

① UNDERGROUND TRENCH CARD LAYOUT - GENERATOR YARD PART 4  
3/16" = 1'-0"



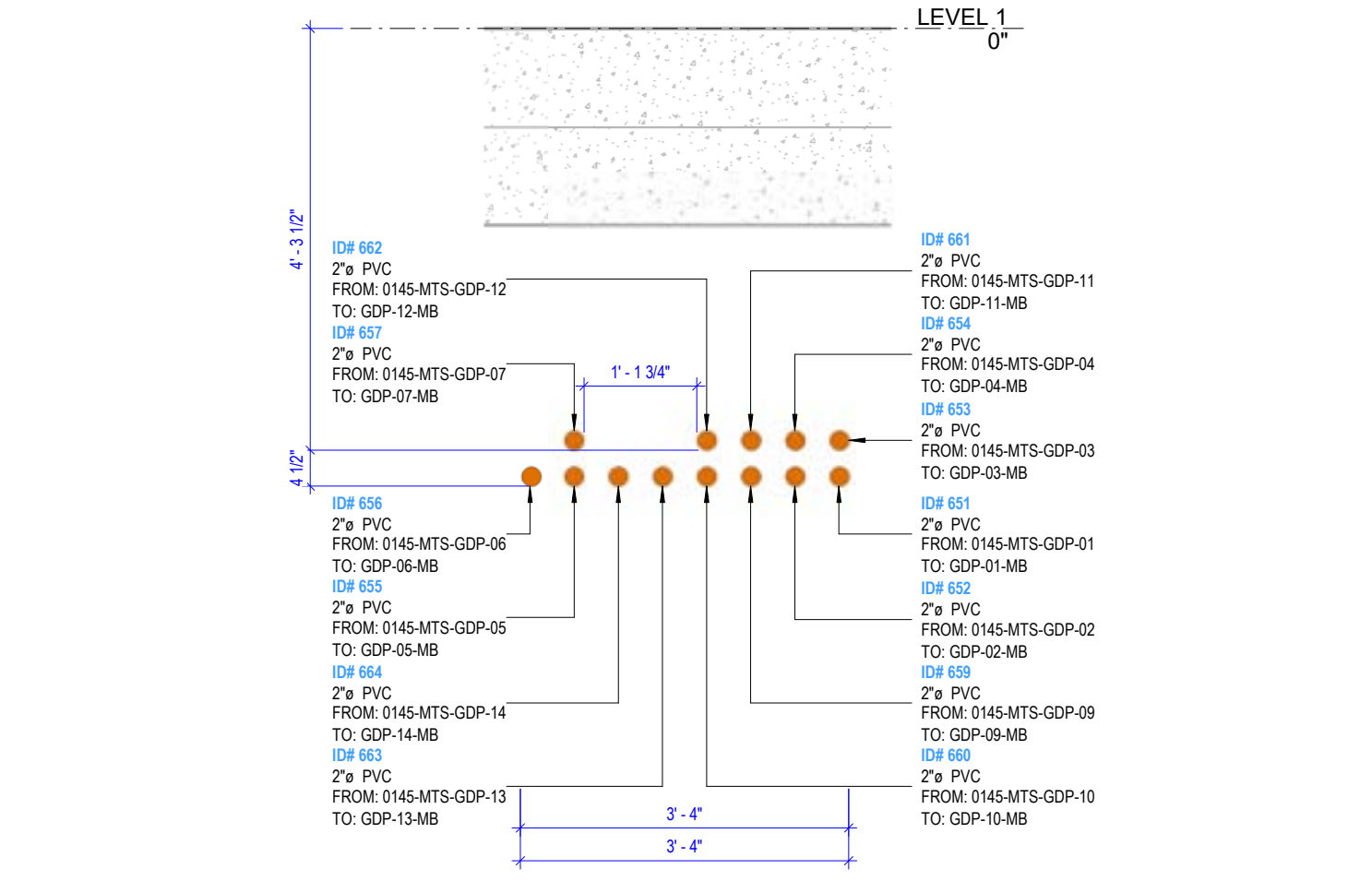
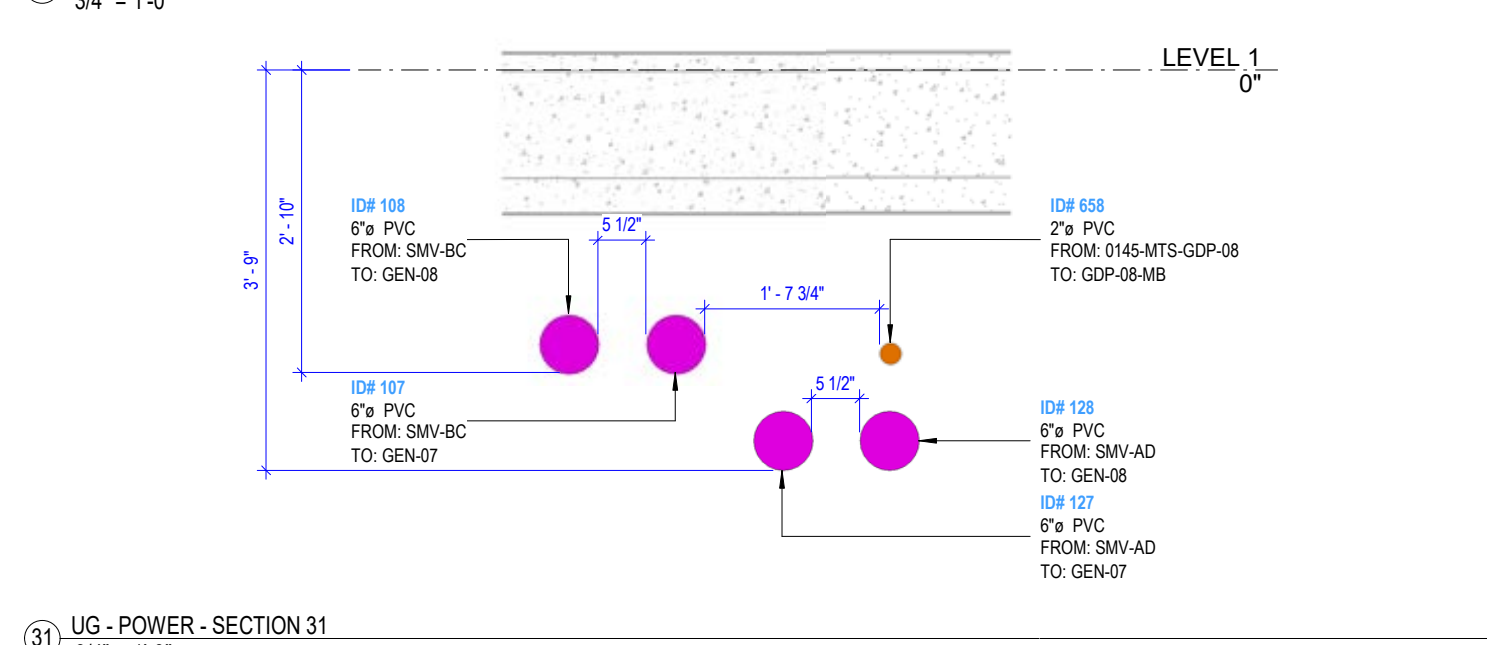
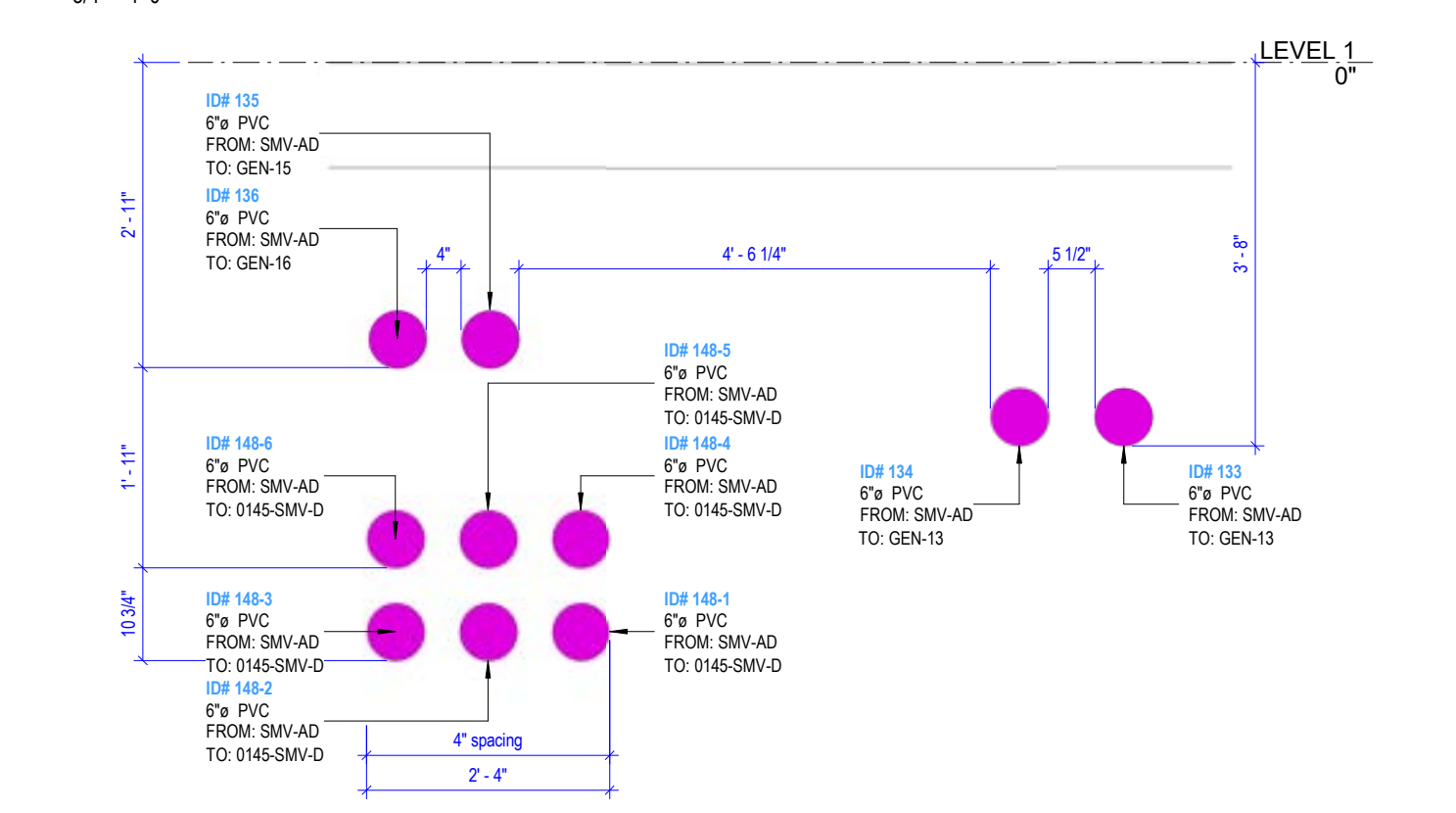
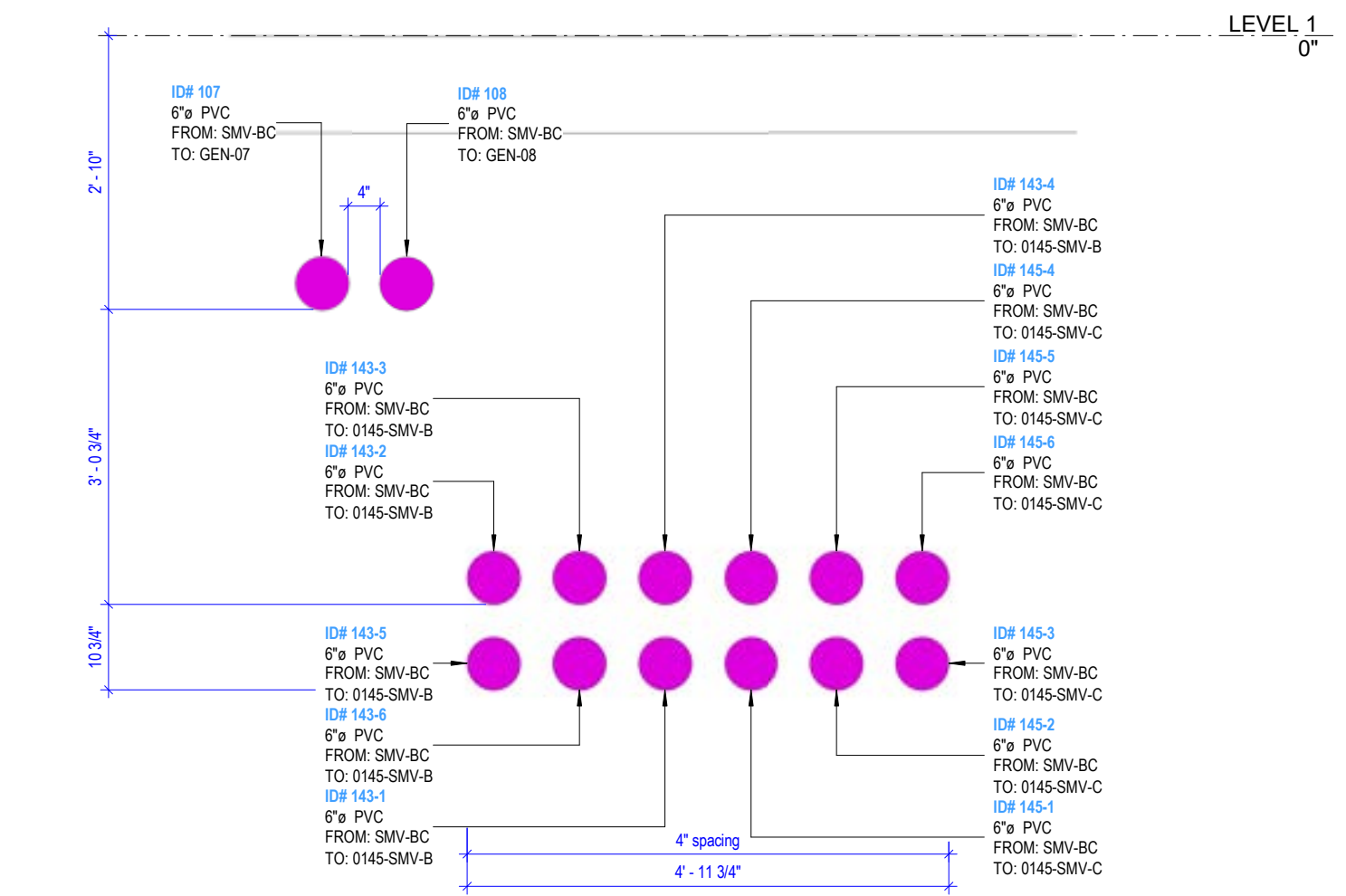
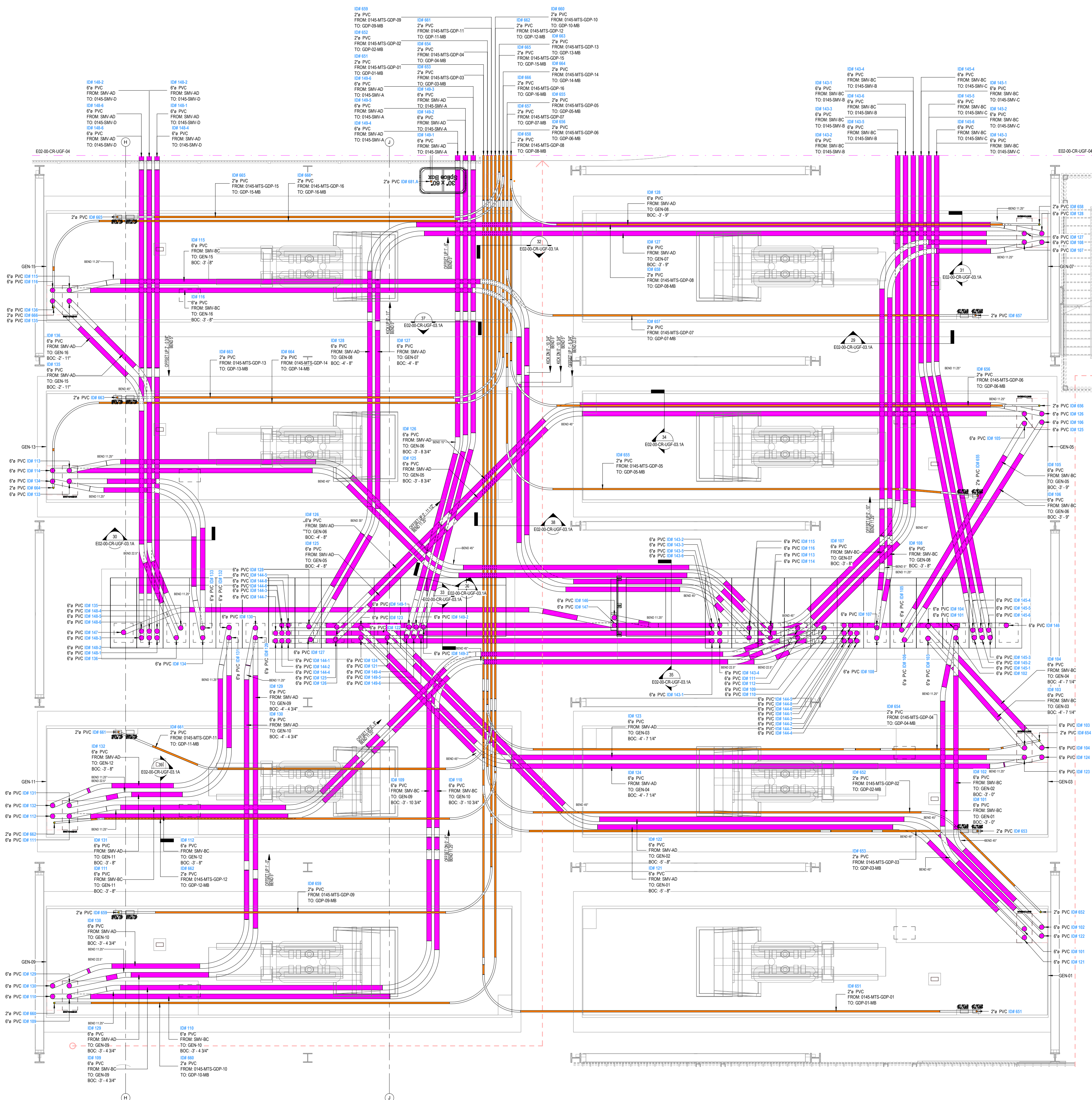
# UG CONDUIT LAYOUT



201 Spear Street, Suite 1750  
San Francisco, CA 94105

## SHEET NOTES

1. BOTTOM OF CONDUIT (BOC) IS MEASURED FROM REFERENCE ELEVATION 42.00'



| DATE        | 05/22/23                |
|-------------|-------------------------|
| REVISION    | ISSUED FOR CONSTRUCTION |
| DESCRIPTION |                         |
| 1           |                         |

BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

| LEGEND:                             |                                    |
|-------------------------------------|------------------------------------|
| 12KV POWER                          | TEMP POWER                         |
| TELECOM                             | ERRCS                              |
| NORMAL POWER / HIGH VOLTAGE 277/480 | NORMAL POWER / LOW VOLTAGE 120/208 |
| SVP TEMP POWER                      | BAS                                |

| CONDUIT TAG    |                     |
|----------------|---------------------|
| CONDUIT TAG ID | CONDUIT ORIGIN      |
| CONDUIT TAG ID | CONDUIT DESTINATION |
| CONDUIT TAG ID | CONDUIT MATERIAL    |
| CONDUIT TAG ID | CONDUIT ELEVATION   |

| TEMP POWER CONDUIT TAG |                     |
|------------------------|---------------------|
| CONDUIT TAG ID         | CONDUIT ORIGIN      |
| CONDUIT TAG ID         | CONDUIT DESTINATION |
| CONDUIT TAG ID         | CONDUIT MATERIAL    |
| CONDUIT TAG ID         | CONDUIT ELEVATION   |

| CONDUIT TAG    |                     |
|----------------|---------------------|
| CONDUIT TAG ID | CONDUIT ORIGIN      |
| CONDUIT TAG ID | CONDUIT DESTINATION |
| CONDUIT TAG ID | CONDUIT MATERIAL    |
| CONDUIT TAG ID | CONDUIT ELEVATION   |

| TEMP POWER CONDUIT TAG |                     |
|------------------------|---------------------|
| CONDUIT TAG ID         | CONDUIT ORIGIN      |
| CONDUIT TAG ID         | CONDUIT DESTINATION |
| CONDUIT TAG ID         | CONDUIT MATERIAL    |
| CONDUIT TAG ID         | CONDUIT ELEVATION   |

| CONDUIT TAG    |                     |
|----------------|---------------------|
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| CONDUIT TAG ID | CONDUIT DESTINATION |
| CONDUIT TAG ID | CONDUIT MATERIAL    |
| CONDUIT TAG ID | CONDUIT ELEVATION   |

| TEMP POWER CONDUIT TAG |                     |
|------------------------|---------------------|
| CONDUIT TAG ID         | CONDUIT ORIGIN      |
| CONDUIT TAG ID         | CONDUIT DESTINATION |
| CONDUIT TAG ID         | CONDUIT MATERIAL    |
| CONDUIT TAG ID         | CONDUIT ELEVATION   |

| CONDUIT TAG    |                     |
|----------------|---------------------|
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| CONDUIT TAG ID | CONDUIT MATERIAL    |
| CONDUIT TAG ID | CONDUIT ELEVATION   |

| TEMP POWER CONDUIT TAG |                     |
|------------------------|---------------------|
| CONDUIT TAG ID         | CONDUIT ORIGIN      |
| CONDUIT TAG ID         | CONDUIT DESTINATION |
| CONDUIT TAG ID         | CONDUIT MATERIAL    |
| CONDUIT TAG ID         | CONDUIT ELEVATION   |

| CONDUIT TAG    |                     |
|----------------|---------------------|
| CONDUIT TAG ID | CONDUIT ORIGIN      |
| CONDUIT TAG ID | CONDUIT DESTINATION |
| CONDUIT TAG ID | CONDUIT MATERIAL    |
| CONDUIT TAG ID | CONDUIT ELEVATION   |

| TEMP POWER CONDUIT TAG |                     |
|------------------------|---------------------|
| CONDUIT TAG ID         | CONDUIT ORIGIN      |
| CONDUIT TAG ID         | CONDUIT DESTINATION |
| CONDUIT TAG ID         | CONDUIT MATERIAL    |
| CONDUIT TAG ID         | CONDUIT ELEVATION   |

| CONDUIT TAG    |                     |
|----------------|---------------------|
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| CONDUIT TAG ID | CONDUIT DESTINATION |
| CONDUIT TAG ID | CONDUIT MATERIAL    |
| CONDUIT TAG ID | CONDUIT ELEVATION   |

| TEMP POWER CONDUIT TAG |                     |
|------------------------|---------------------|
| CONDUIT TAG ID         | CONDUIT ORIGIN      |
| CONDUIT TAG ID         | CONDUIT DESTINATION |
| CONDUIT TAG ID         | CONDUIT MATERIAL    |
| CONDUIT TAG ID         | CONDUIT ELEVATION   |

| CONDUIT TAG    |                     |
|----------------|---------------------|
| CONDUIT TAG ID | CONDUIT ORIGIN      |
| CONDUIT TAG ID | CONDUIT DESTINATION |
| CONDUIT TAG ID | CONDUIT MATERIAL    |
| CONDUIT TAG ID | CONDUIT ELEVATION   |

| TEMP POWER CONDUIT TAG |                     |
|------------------------|---------------------|
| CONDUIT TAG ID         | CONDUIT ORIGIN      |
| CONDUIT TAG ID         | CONDUIT DESTINATION |
| CONDUIT TAG ID         | CONDUIT MATERIAL    |
| CONDUIT TAG ID         | CONDUIT ELEVATION   |

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| TEMP POWER CONDUIT TAG |                     |
|------------------------|---------------------|
| CONDUIT TAG ID         | CONDUIT ORIGIN      |
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| TEMP POWER CONDUIT TAG |                     |
|------------------------|---------------------|
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| TEMP POWER CONDUIT TAG |                     |
|------------------------|---------------------|
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| CONDUIT TAG    |                     |
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| TEMP POWER CONDUIT TAG |                     |
|------------------------|---------------------|
| CONDUIT TAG ID         | CONDUIT ORIGIN      |
| CONDUIT TAG ID         | CONDUIT DESTINATION |
| CONDUIT TAG ID         | CONDUIT MATERIAL    |
| CONDUIT TAG ID         | CONDUIT ELEVATION   |



# IN-SLAB CONDUIT LAYOUT



201 Spear Street, Suite 1750  
San Francisco, CA 94105

| DATE                    | 05/22/23 |
|-------------------------|----------|
| REVISION                |          |
| DESCRIPTION             |          |
| ISSUED FOR CONSTRUCTION |          |
| 1                       |          |

BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

## LEGEND:

### DETAILING INSTALL COLOR STANDARDS:

|                                    |                                                   |
|------------------------------------|---------------------------------------------------|
| 120288 NORMAL POWER                | 120288 CRITICAL OPERATIONS SYSTEM UPS POWER (IOC) |
| 277480 NORMAL POWER                | 277480 CRITICAL OPERATIONS SYSTEM UPS POWER (IOC) |
| 120288 EMERGENCY POWER             | 120288 LEGALLY REQUIRED EMERGENCY POWER           |
| 277480 EMERGENCY POWER             | 277480 LEGALLY REQUIRED EMERGENCY POWER           |
| 120288 LIFE SAFETY EMERGENCY POWER | 120288 LIFE SAFETY EMERGENCY POWER                |
| 277480 LIFE SAFETY EMERGENCY POWER | 277480 LIFE SAFETY EMERGENCY POWER                |
| UPS POWER                          | UPS POWER                                         |
| 120288 FIRE ALARM                  | 120288 FIRE ALARM                                 |
| 277480 FIRE ALARM                  | 277480 FIRE ALARM                                 |
| 120288 MEDIUM VOLTAGE              | 120288 MEDIUM VOLTAGE                             |
| 277480 MEDIUM VOLTAGE              | 277480 MEDIUM VOLTAGE                             |
| 120288 TEMP POWER                  | 120288 TEMP POWER                                 |
| 277480 TEMP POWER                  | 277480 TEMP POWER                                 |
| 120288 DATA                        | 120288 DATA                                       |
| 277480 DATA                        | 277480 DATA                                       |
| 120288 GROUNDING                   | 120288 GROUNDING                                  |
| 277480 GROUNDING                   | 277480 GROUNDING                                  |
| 120288 SPARE                       | 120288 SPARE                                      |
| 277480 SPARE                       | 277480 SPARE                                      |

## SHEET NOTE:

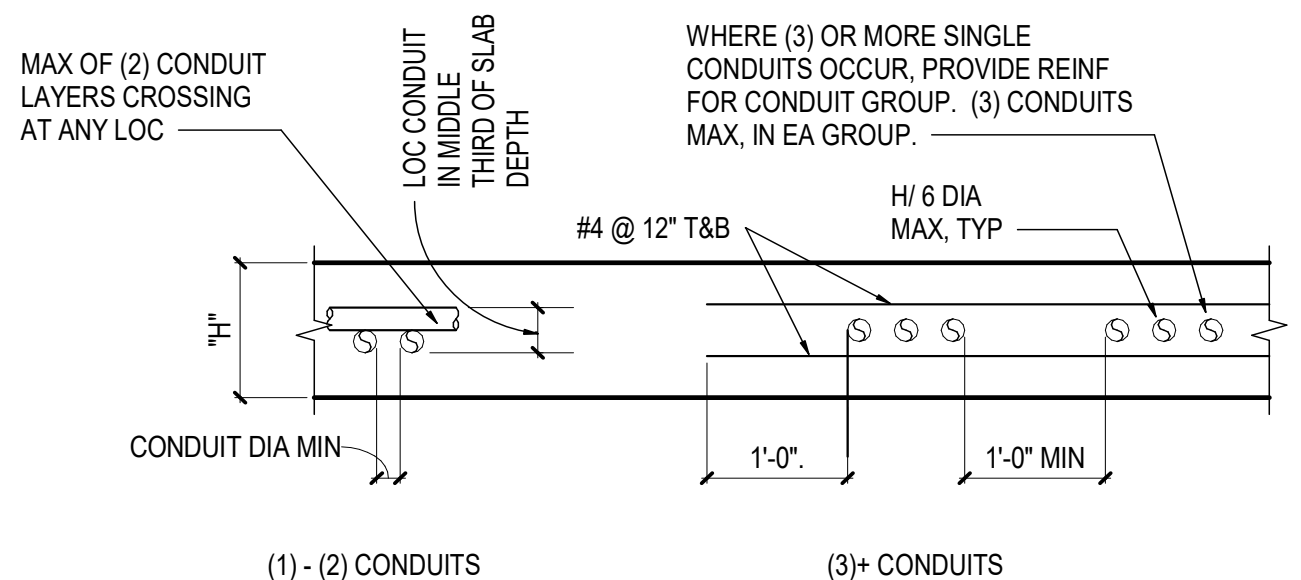
- ALL CONDUIT BENDS WITHOUT TAG HAVE 90° DEGREE ANGLE.
- GBB - GROUNDING BUS BAR.
- ALL CONDUIT STUBBED UP THROUGH FLOOR NOT CONCEALED IN WALLS TO BE STUBBED UP IN GRC.

## 5. TYPICAL DETAILING NOTE :

①②③④⑤⑥⑦⑧ - THE TYPICAL DETAILING NUMBER ON THE PLAN.

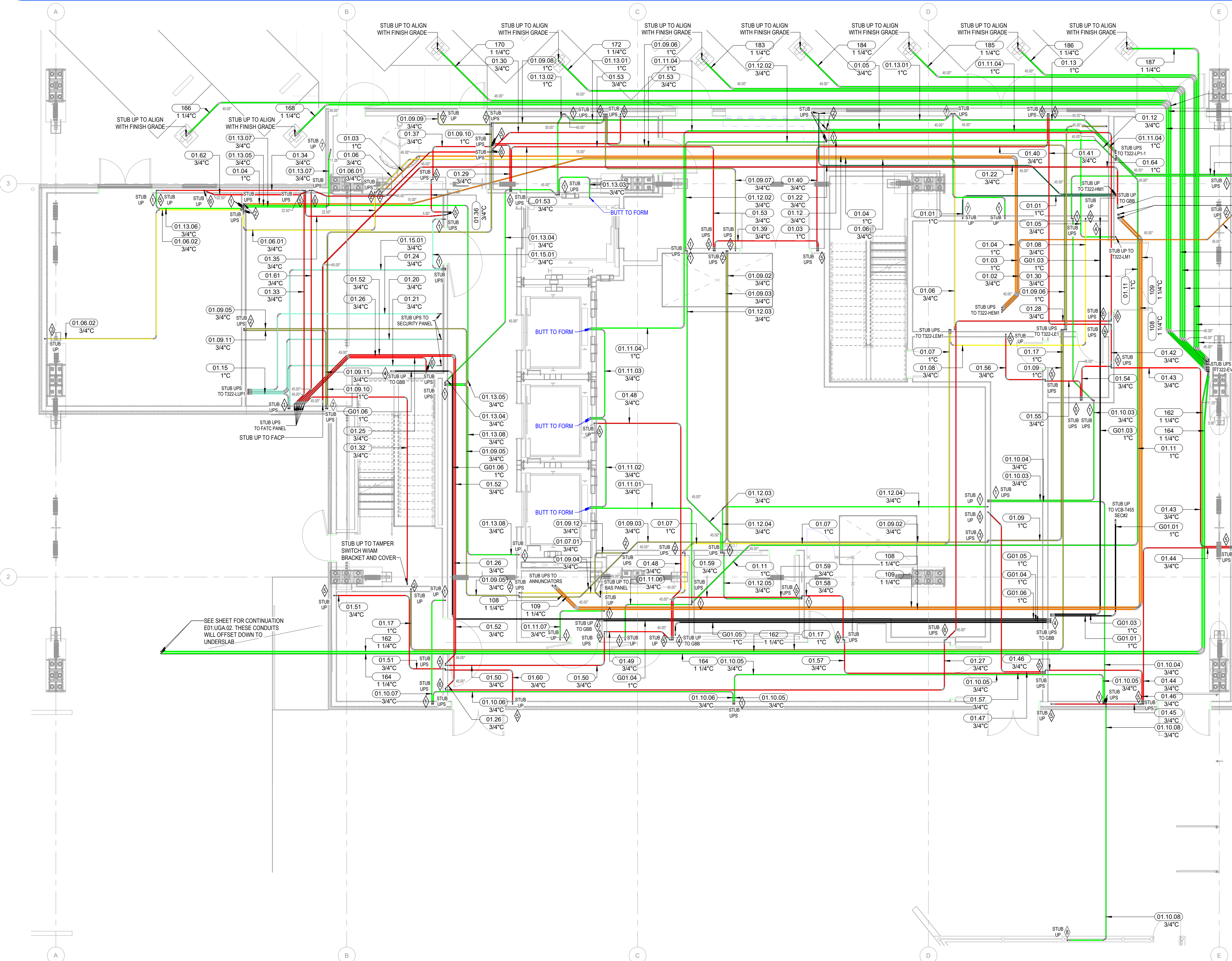
- PVC TYPE CONDUIT
- EMT TYPE CONDUIT.
- GRC TYPE CONDUIT.

## 4. EMBEDDED ELECTRICAL CONDUIT:

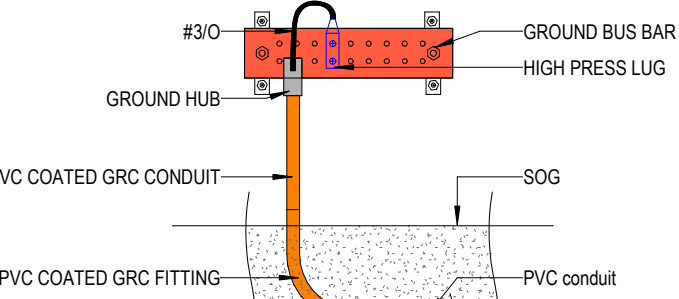


## NOTES:

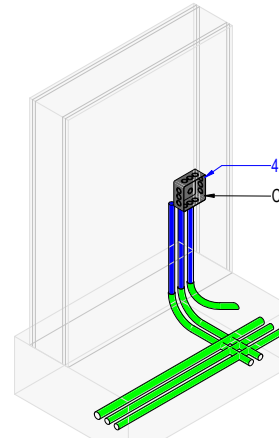
- DO NOT PLACE CONDUIT WITHIN 1'-0" OF COLUMN FACE OR THROUGH SLAB SHEAR REINFORCING STUD RAILS.
- KEEP CONDUIT AT LEAST 2'-0" AWAY FROM POST-TENSIONED TENDON ANCHORAGE
- MAINTAIN A MINIMUM HORIZONTAL CLEARANCE FROM PARALLEL PT TENDONS OF 1'-0" AND A MINIMUM VERTICAL CLEARANCE OF ONE INCH FROM PT TENDONS BEING CROSSED
- CONGESTED AREAS OF CONDUIT THAT DO NOT MEET THIS CRITERIA SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. ADDITIONAL REINFORCEMENT MAY BE NECESSARY.
- DO NOT TIE CONDUIT DIRECTLY TO REINFORCEMENT PARALLEL TO CONDUIT. PROVIDE MINIMUM db, BUT NOT LESS THAN ONE INCH CLEAR BETWEEN CONDUIT AND REINFORCEMENT.



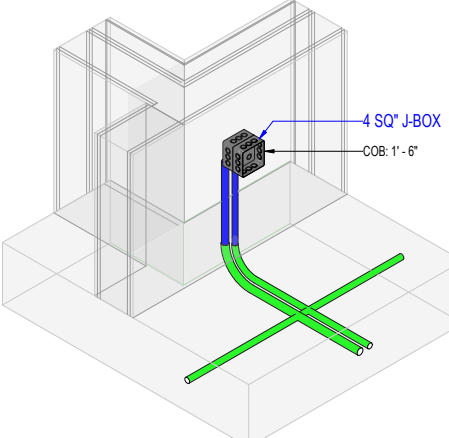
① E13.L1A.00- IN-SLAB CONDUIT ROUTES - L1A  
3/16" = 1'-0"



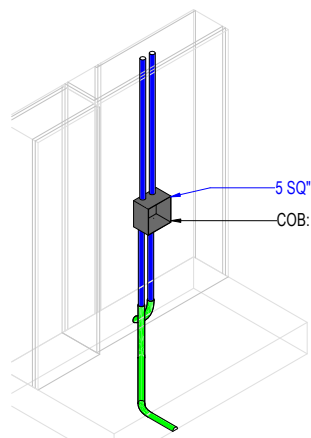
② LEVEL 1 - TYPICAL DETAILING FOR GROUNDING - 4  
1/8" = 1'-0"



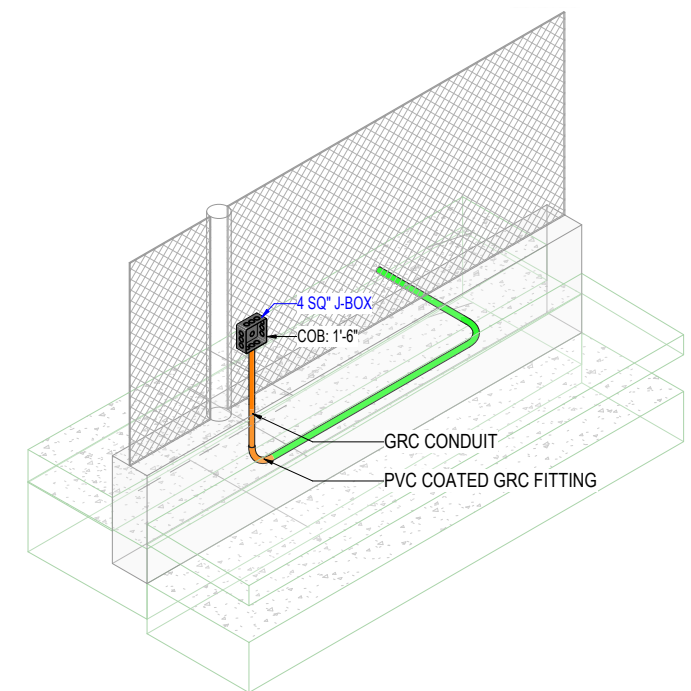
③ LEVEL 1 - TYPICAL DETAILING FOR POWER - 1



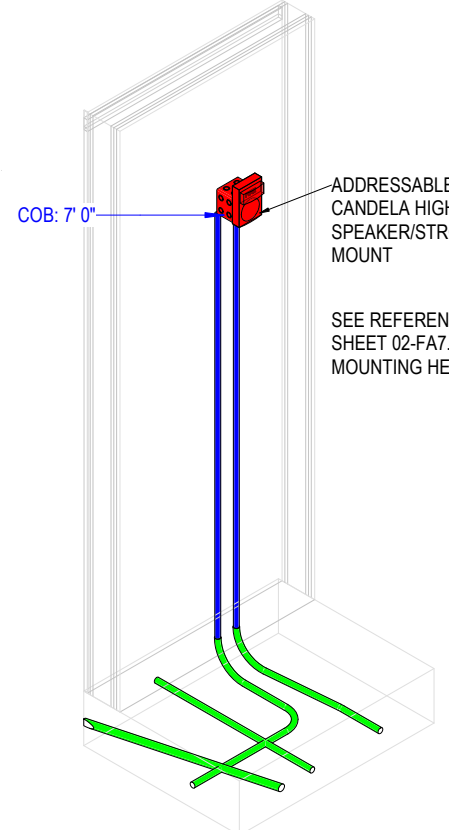
④ LEVEL 1 - TYPICAL DETAILING FOR POWER - 7



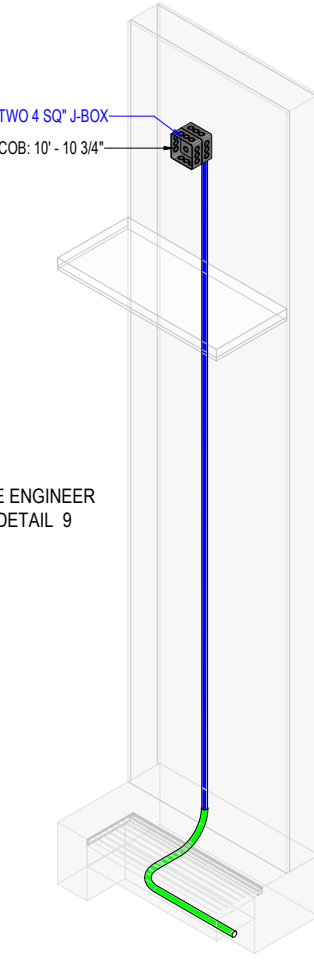
⑤ LEVEL 1 - TYPICAL DETAILING FOR FA - 6



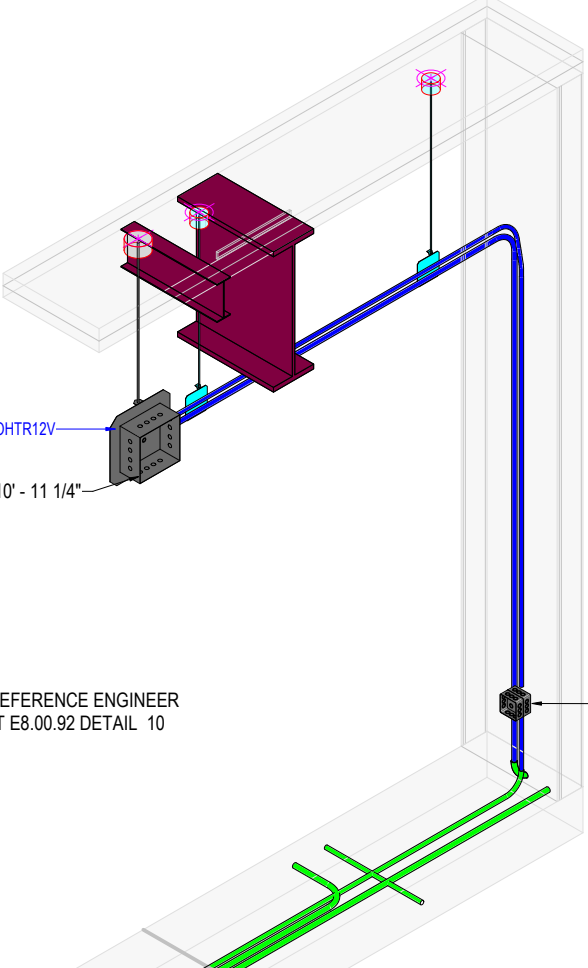
⑥ LEVEL 1 - TYPICAL DETAILING FOR POWER - 8



⑦ LEVEL 1 - TYPICAL DETAILING FOR FA - 5



⑧ LEVEL 1 - TYPICAL DETAILING FOR POWER - 2



⑨ LEVEL 1 - TYPICAL DETAILING FOR POWER - 3

## IN-SLAB CONDUIT LAYOUT

DRAWING NUMBER: E03-01-01



# DECK PENETRATIONS



201 Spear Street, Suite 1750  
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| REVISION | DESCRIPTION             | DATE     |
|----------|-------------------------|----------|
| 1        | ISSUED FOR CONSTRUCTION | 05/22/23 |

BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

#### LEGEND:

- NO REBAR AREA
- SLEEVE HILT CP
- BLOCKOUT
- POKE THRU

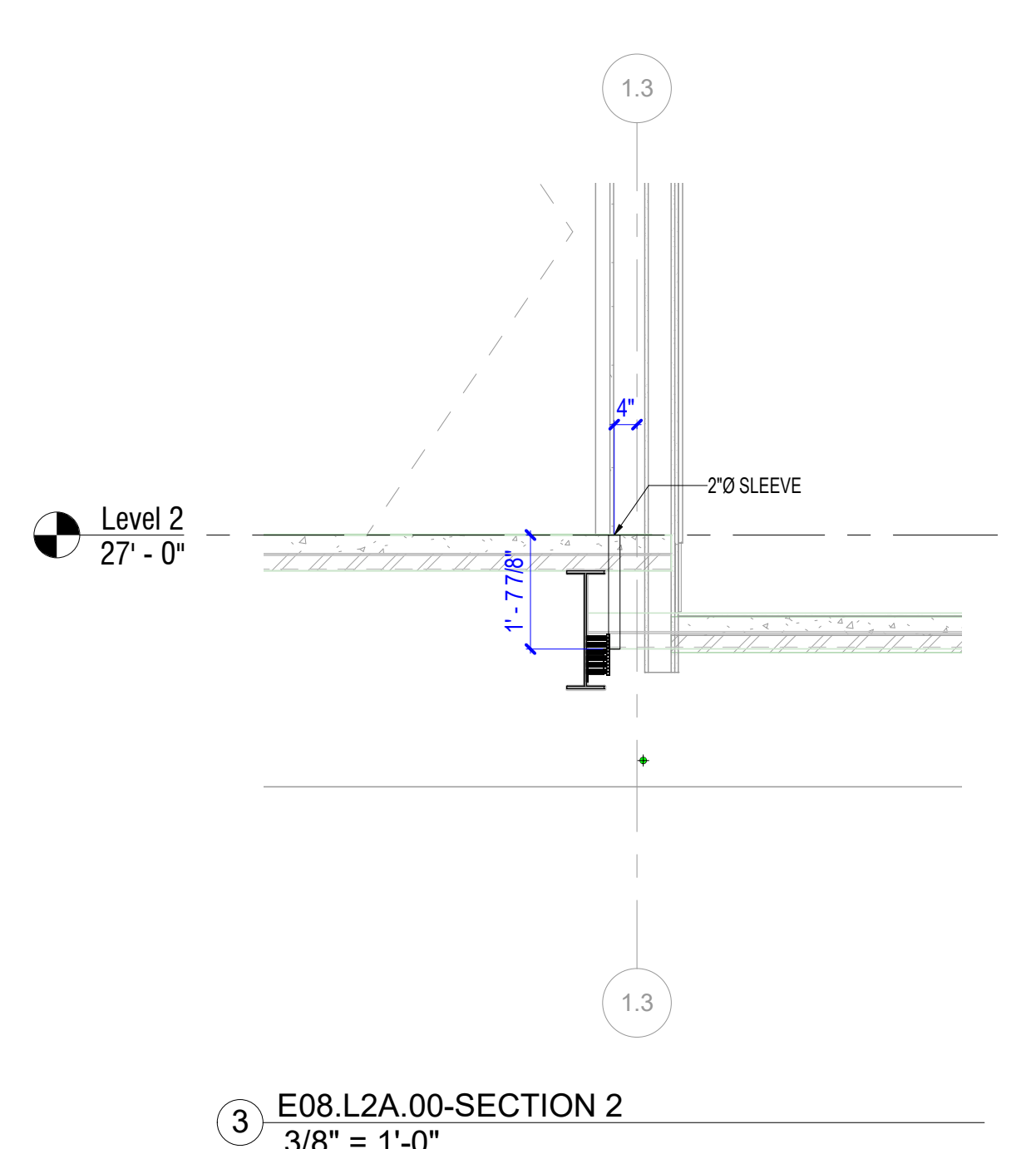
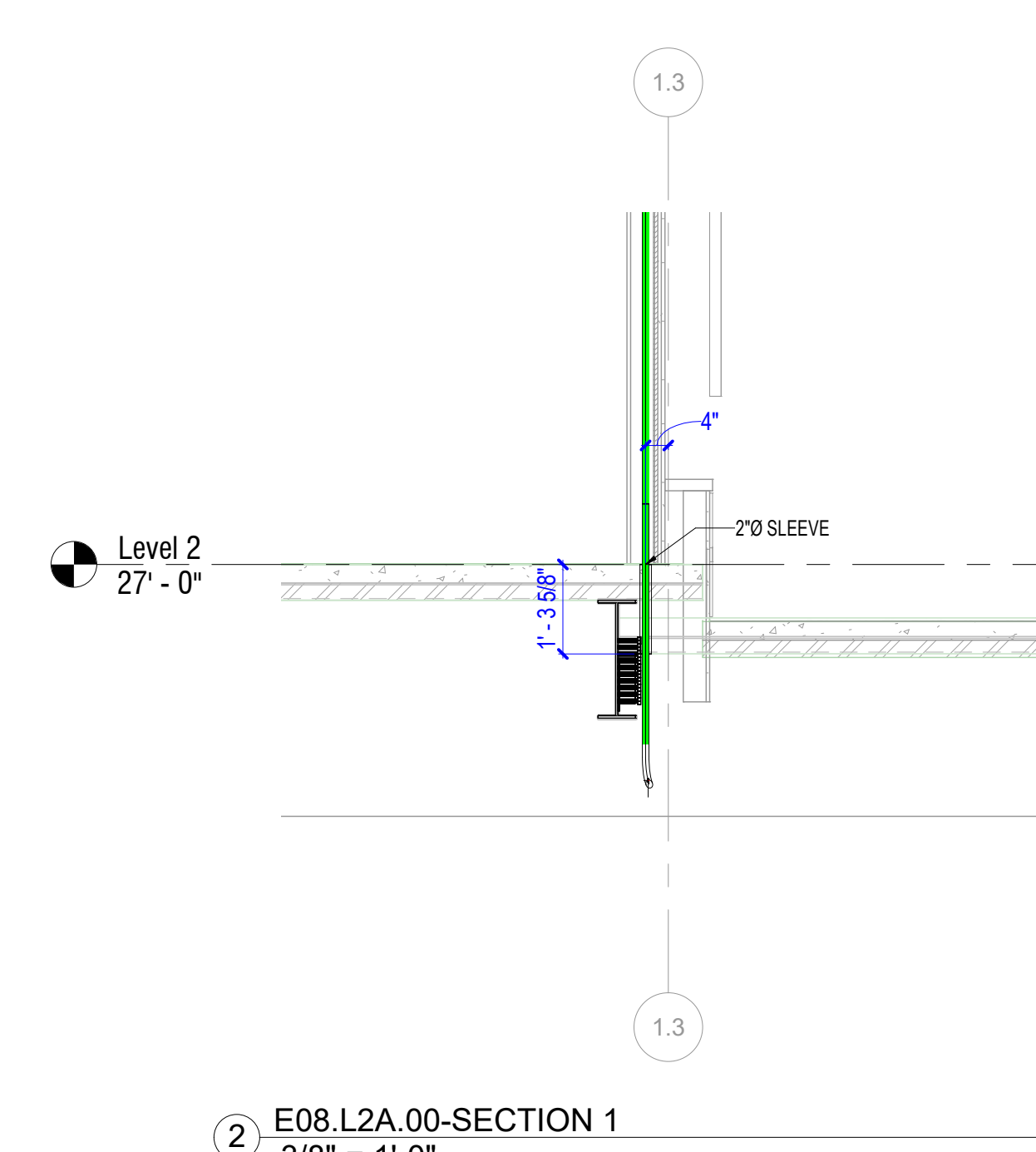
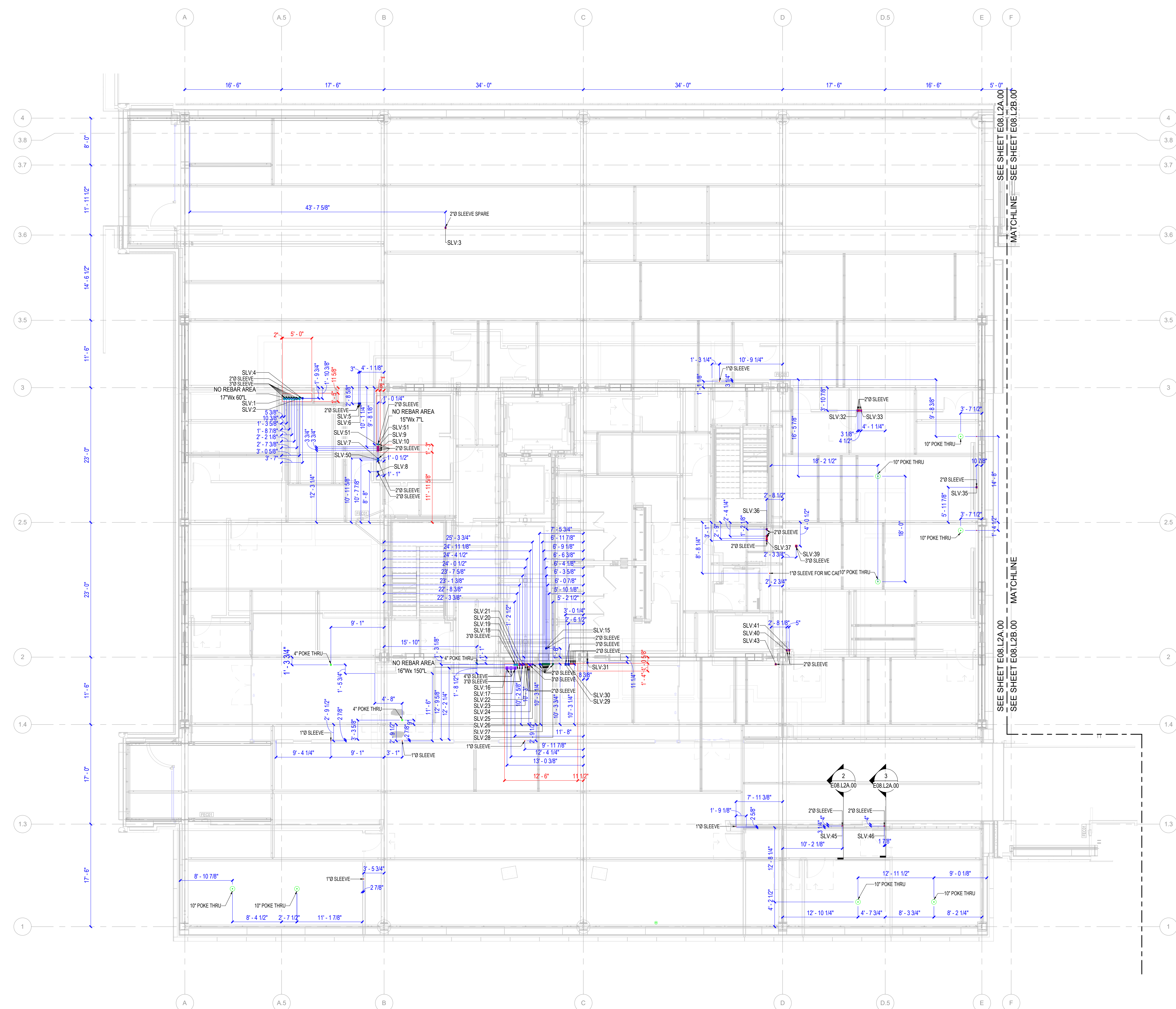
ORIGINAL PRINT SIZE = 36x48

KEY PLAN:

|                  |                      |
|------------------|----------------------|
| JOB NUMBER:      | 00001                |
| ISSUED FOR:      |                      |
| DATE:            | 5/23/2023 3:12:39 PM |
| DRAWN BY: Author | CHECKED BY: Checker  |
| DRAWING SCALE:   | As indicated         |
| SHEET TITLE:     |                      |

DECK PENETRATIONS

DRAWING NUMBER: E04-01-01



1 FLOOR PLAN LEVEL 2A- PENETRATIONS  
1/8" = 1'-0"



# WALL PENETRATIONS



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San Francisco, CA 94105

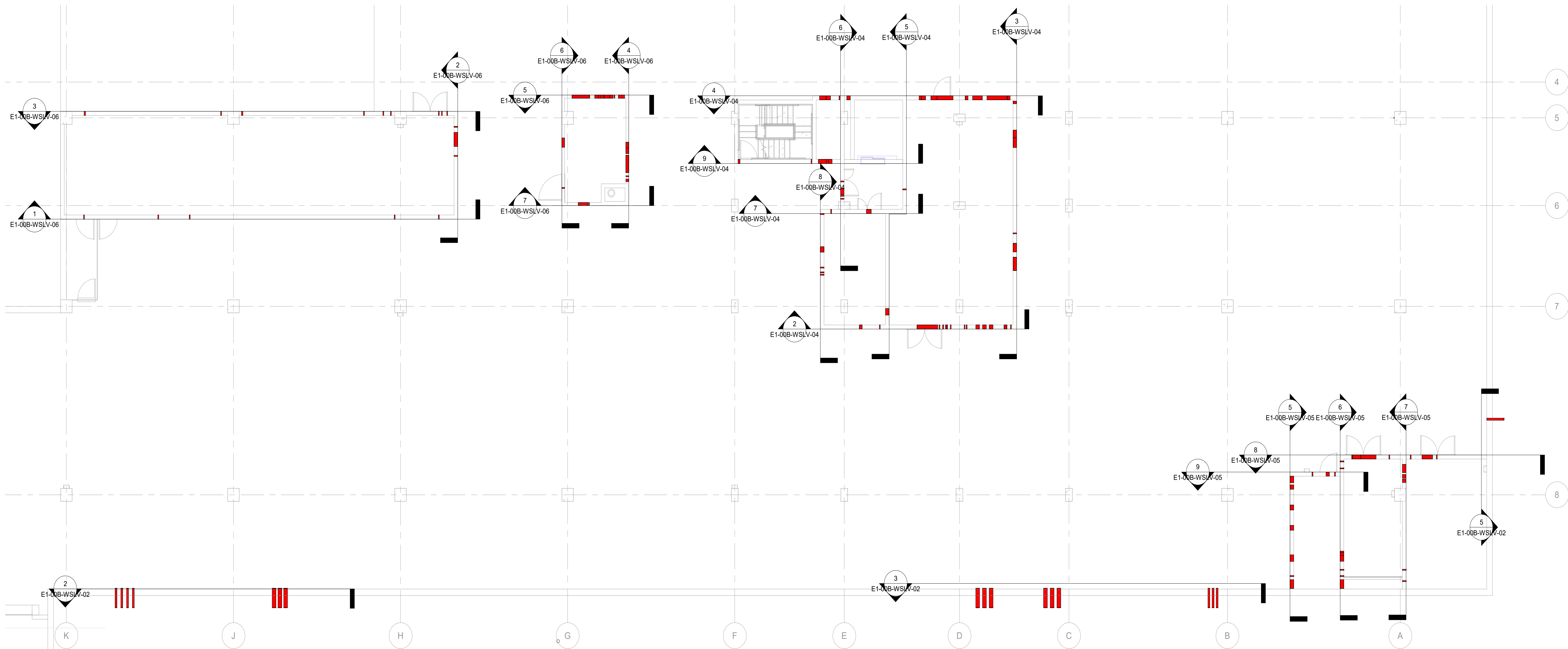
| REVISION | DESCRIPTION             | DATE     |
|----------|-------------------------|----------|
| 1        | ISSUED FOR CONSTRUCTION | 05/22/23 |

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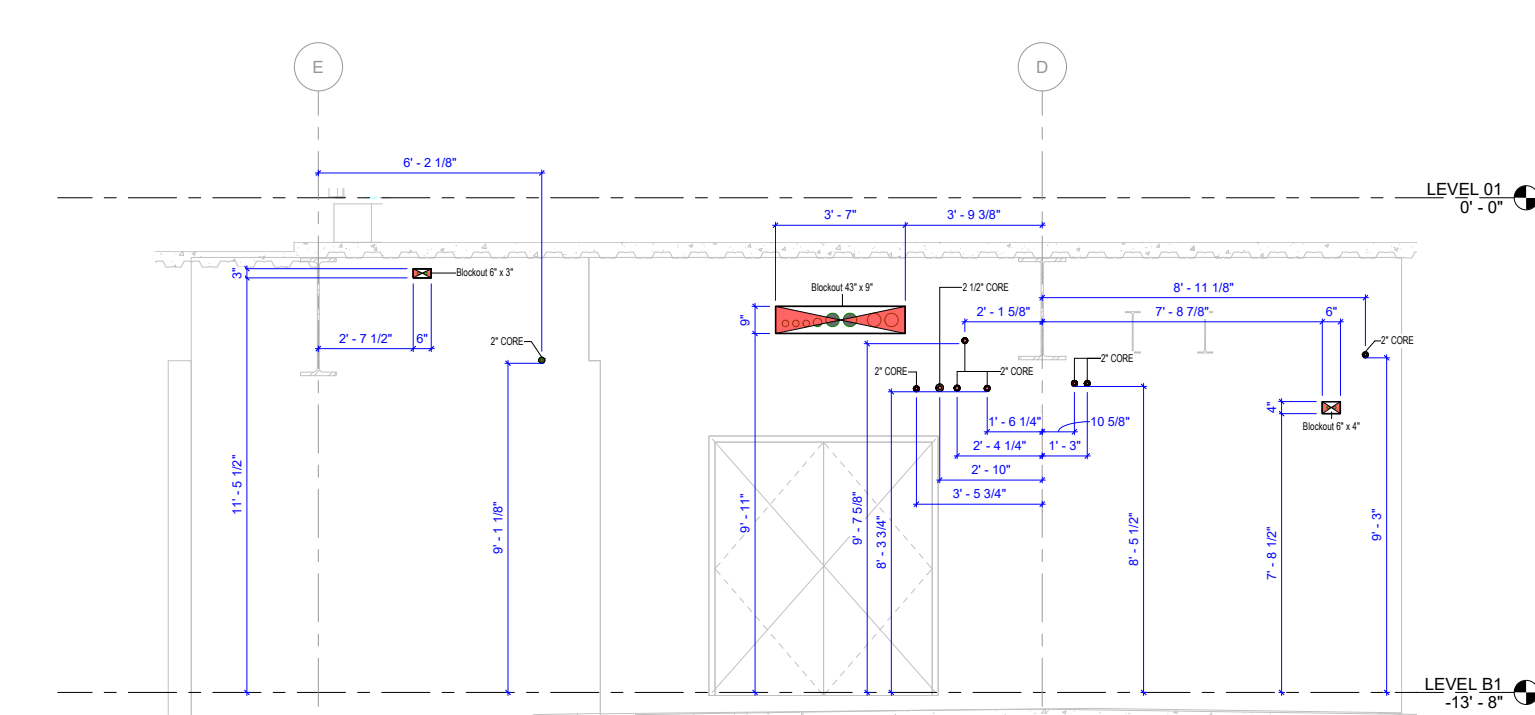
BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

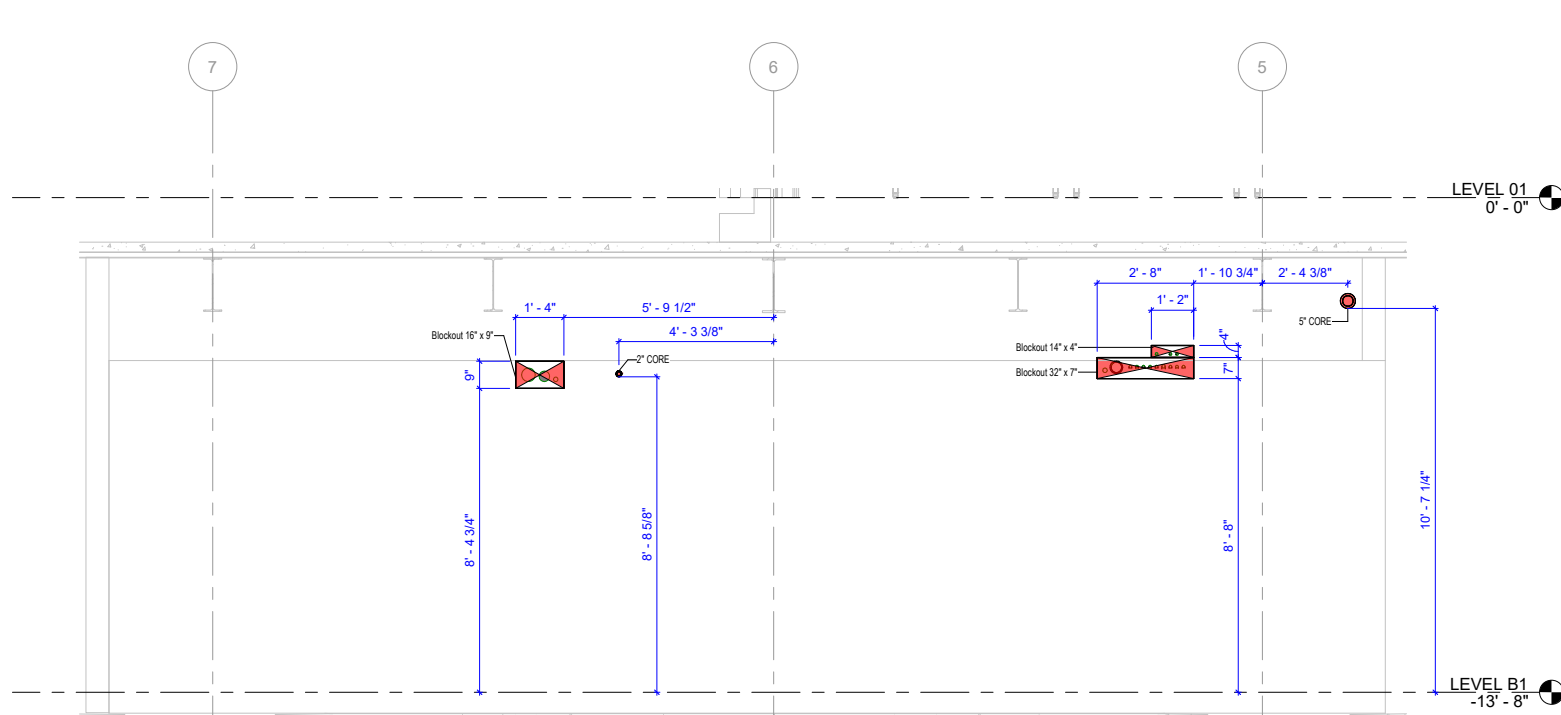
LEGEND:



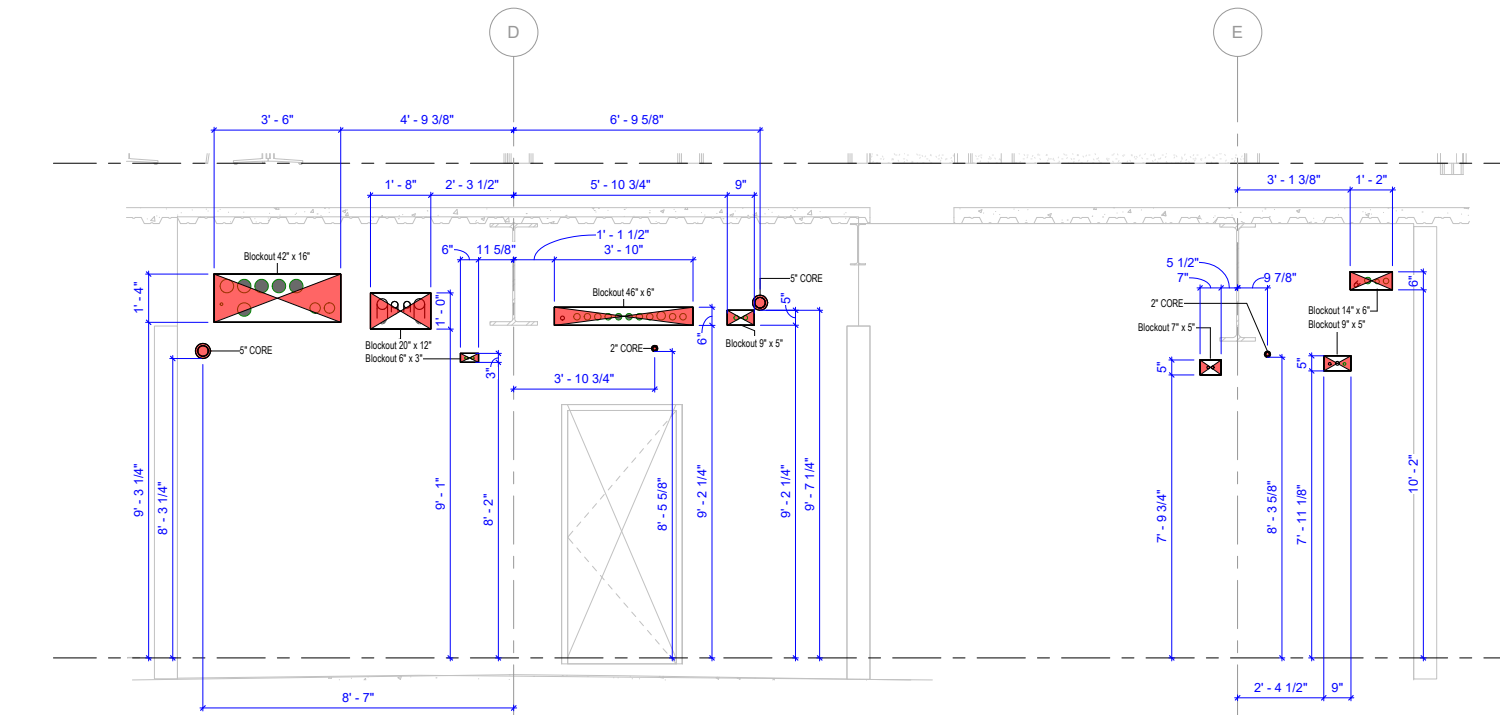
1 WALL PENETRATIONS - LEVE B1  
1/8" = 1'-0"



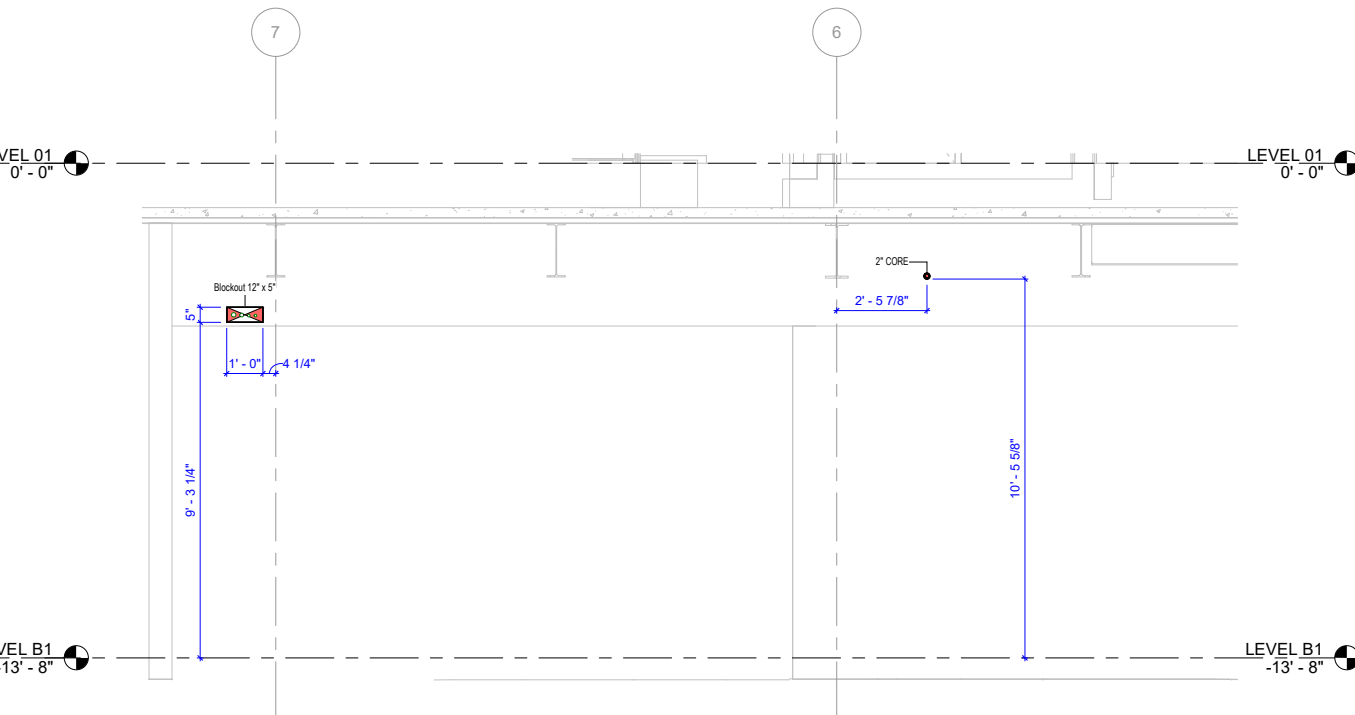
2 SOUTH WALL PENETRATION - MAIN ELECTRICAL ROOM 0005E + CUSTODIAL STORAGE ROOM 0004J  
3/8" = 1'-0"



3 EAST WALL PENETRATION - MAIN ELECTRICAL ROOM 0005E  
3/8" = 1'-0"



4 NORTH WALL PENETRATION - MAIN ELECTRICAL ROOM 0005E, SPR RM 0012  
3/8" = 1'-0"



5 WEST WALL PENETRATION - MAIN ELECTRICAL ROOM 0005E  
3/8" = 1'-0"

ORIGINAL PRINT SIZE = 36x48

KEY PLAN:

JOB NUMBER: 00001  
ISSUED FOR:  
DATE: 5/23/2023 3:12:38 PM  
DRAWN BY: Author  
CHECKED BY: Checker  
DRAWING SCALE: As indicated  
SHEET TITLE:

WALL PENETRATIONS

DRAWING NUMBER: E04-01-02



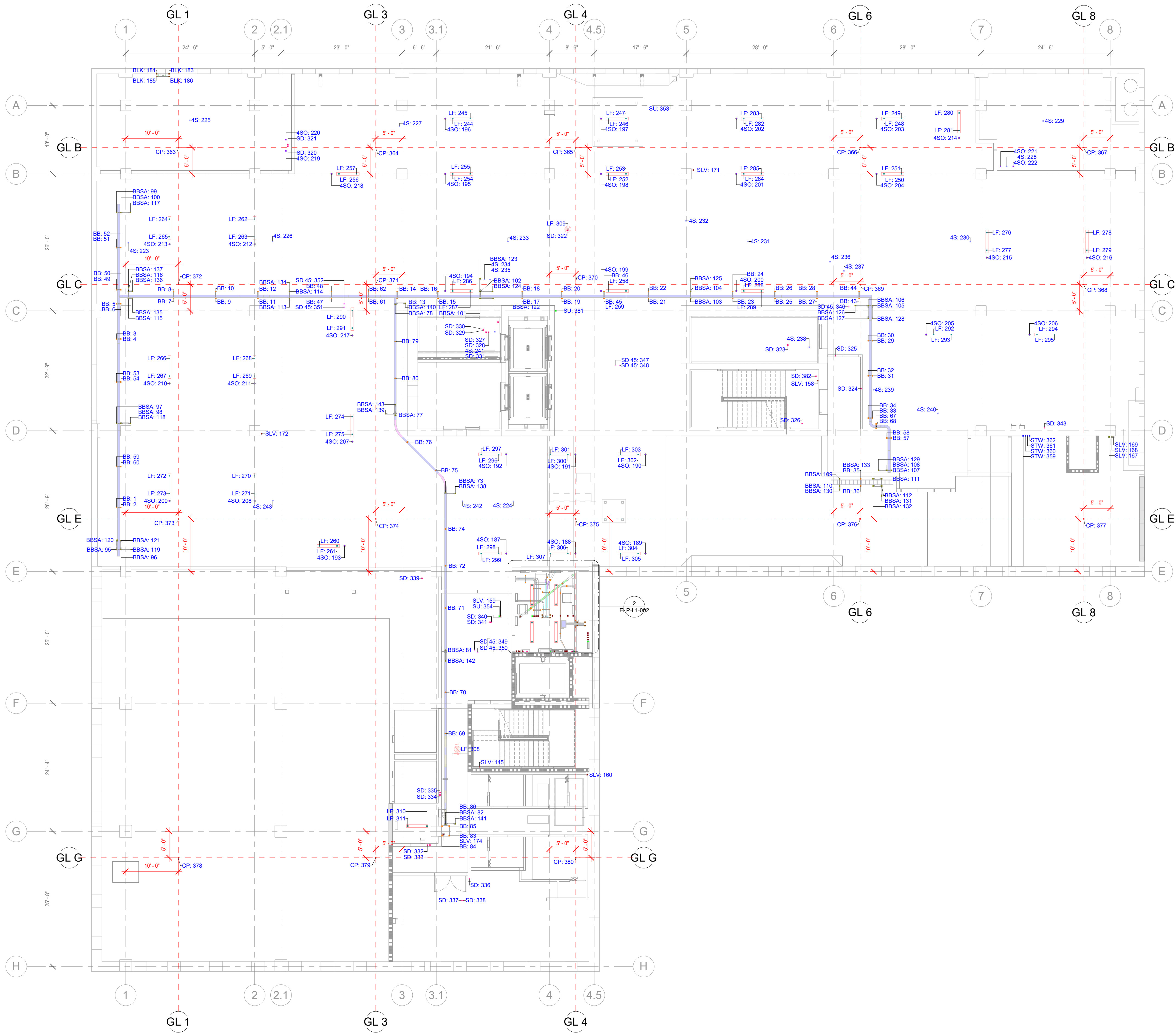




# L1 POINTS LAYOUT



201 Spear Street, Suite 1750  
San Francisco, CA 94105



TRIMBLE POINTS LEVEL BASEMENT

| TYPE OF POINT | COUNT |
|---------------|-------|
| 4S            | 21    |
| 4SO           | 36    |
| BB            | 89    |
| BBSA          | 54    |
| BLK           | 12    |
| CP            | 18    |
| LF            | 76    |
| SD            | 27    |
| SD 45         | 7     |
| SLV           | 30    |
| STW           | 4     |
| SU            | 7     |

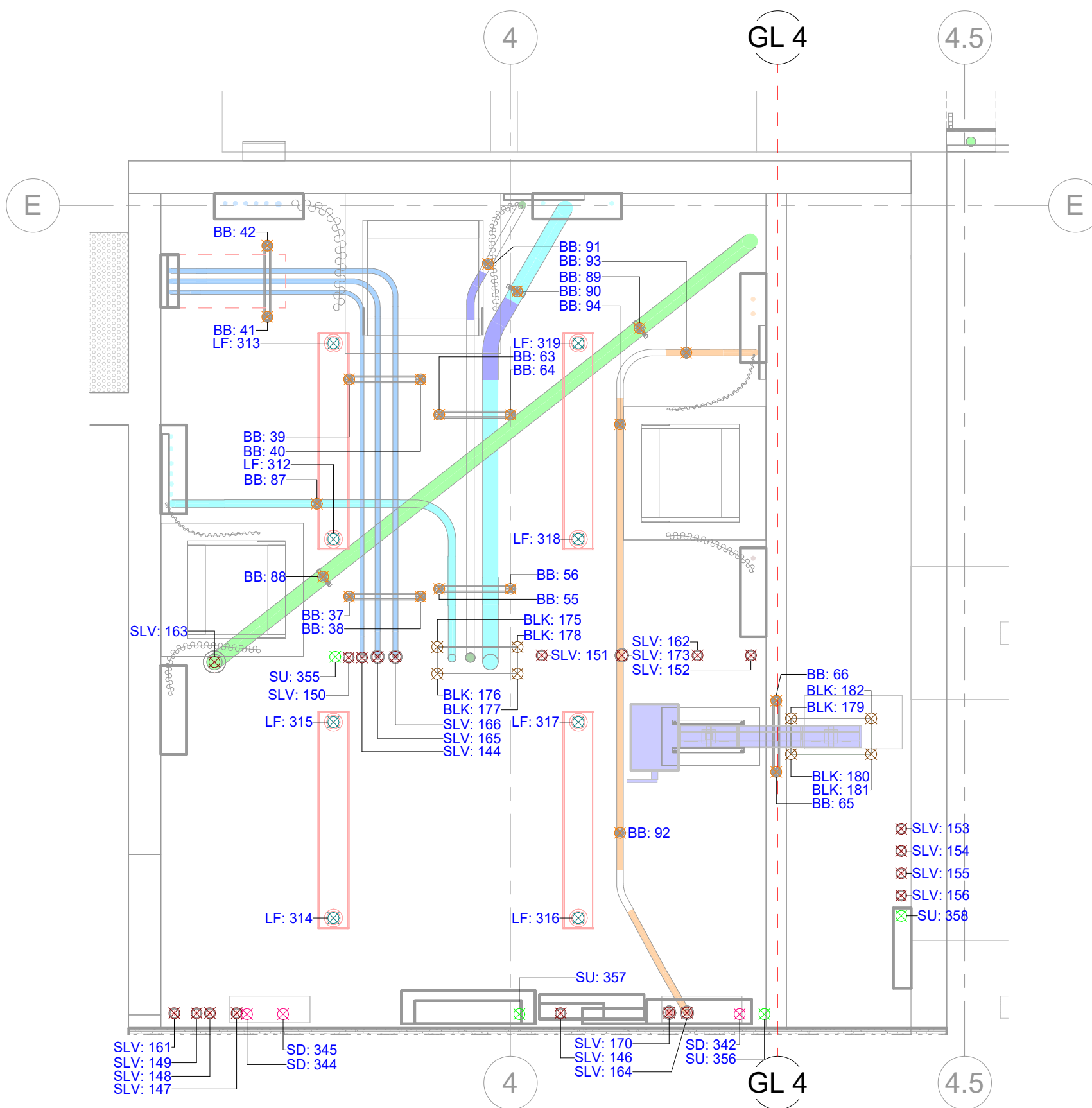
| DATE                    | 05/22/23 |
|-------------------------|----------|
| ISSUED FOR CONSTRUCTION |          |
| REVISION                |          |
| 1                       |          |

BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

## LEGEND:

- CP: XXX - CONTROL POINTS
- 4S: XXX - 4 SQUARE IN-SLAB J-BOX
- 4SO: XXX - 4 SQUARE OCTAGON IN-SLAB J-BOX
- BB: XXX - POURED-IN-PLACE BLUE BANGER INSERT
- BBSA: XXX - POURED-IN-PLACE BLUE BANGER INSERT FOR SEISMIC ARM OR SEISMIC SUPPORTS
- BLK: XXX - BLOCKOUT
- LF: XXX - LIGHTING FIXTURES
- SD: XXX - CONDUIT STUB DOWN 90°
- SD 45: XXX - CONDUIT STUB DOWN 45°
- SLV: XXX - SLEEVE
- STW: XXX - CONDUIT STUB THRU WALL
- SU: XXX - CONDUIT STUB UP 90°



1 TRIMBLE LAYOUT - LEVEL 1  
1/8" = 1'-0"

2 TRIMBLE LAYOUT - LEVEL 1 - Callout 1  
1/2" = 1'-0"

L1 POINTS LAYOUT

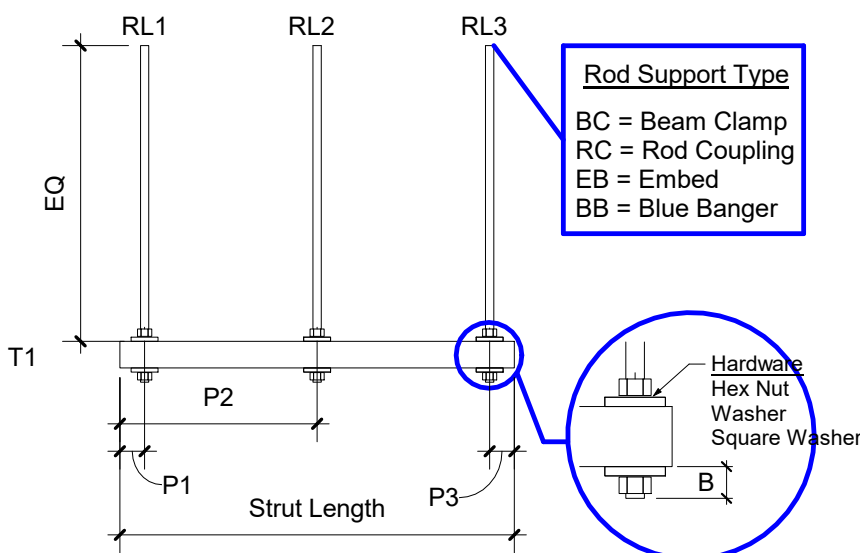
DRAWING NUMBER: E05-01-02



# OVERHEAD SUPPORT LAYOUT



201 Spear Street, Suite 1750  
San Francisco, CA 94105



## GENERAL NOTES

- SS.B1-XX**  
**1. Strut Style Abbreviation**  
"SS" - Single Strut  
"DS" - Double Strut  
**2. Level**  
**3. Strut Number**
- TOS: X'-X"** - TOP OF STRUT ABOVE LEVEL  
**BOS: X'-X"** - BOTTOM OF STRUT ABOVE LEVEL

| MUSIC CULTURE LEVEL 3 SINGLE TIER TRAPEZE SCHEDULE |          |              |                     |              |         |        |      |        |       |        |          |
|----------------------------------------------------|----------|--------------|---------------------|--------------|---------|--------|------|--------|-------|--------|----------|
| Mark                                               | Quantity | Strut Length | Strut Type          | Rod Diameter | RL1+    | RL2+   | RL3+ | P1     | P2    | P3     | B        |
| 3 1/4 B2B UNISTRUT                                 |          |              |                     |              |         |        |      |        |       |        |          |
| DS.L3.01                                           | 1        | 0'-10"       | 3 1/4 B2B UNISTRUT  | 3/8"         | 99 1/4" |        |      | 1"     | 0"    | 1"     | 0'-0"    |
| DS.L3.02                                           | 1        | 0'-10"       | 3 1/4 B2B UNISTRUT  | 3/8"         | 27 1/4" |        |      | 1"     | 0"    | 1"     | 0'-0"    |
| DS.L3.03                                           | 1        | 1'-0"        | 3 1/4 B2B UNISTRUT  | 3/8"         | 65 3/4" |        |      | 1"     | 0"    | 1"     | 0'-2"    |
| UNISTRUT 1 5/8 DOWN                                |          |              |                     |              |         |        |      |        |       |        |          |
| SS.L3.09                                           | 11       | 0'-10"       | UNISTRUT 1 5/8 DOWN | 3/8"         | 27 3/4" |        |      | 1"     | 0"    | 1"     | 0'-0"    |
| SS.L3.33                                           | 4        | 1'-0"        | UNISTRUT 1 5/8 DOWN | 3/8"         | 27 3/4" |        |      | 1"     | 0"    | 1"     | 0'-0"    |
| SS.L3.32                                           | 1        | 1'-2"        | UNISTRUT 1 5/8 DOWN | 3/8"         | 27 3/4" |        |      | 1"     | 0"    | 1"     | 0'-0"    |
| SS.L3.06                                           | 1        | 1'-8"        | UNISTRUT 1 5/8 DOWN | 3/8"         | 27 3/4" |        |      | 6 1/2" | 0'-0" | 32'-5" | LEVEL 01 |
| SS.L3.20                                           | 1        | 2'-0"        | UNISTRUT 1 5/8 DOWN | 3/8"         | 27 3/4" | 8 1/8" |      | 0"     | 1"    | 0'-0"  | 32'-5"   |
| SS.L3.25                                           | 1        | 2'-2"        | UNISTRUT 1 5/8 DOWN | 3/8"         | 27 3/4" |        |      | 1"     | 0"    | 1"     | 0'-0"    |
| SS.L3.36                                           | 1        | 2'-8"        | UNISTRUT 1 5/8 DOWN | 3/8"         | 48 1/2" |        |      | 1"     | 0"    | 1"     | 0'-0"    |
| SS.L3.37                                           | 1        | 2'-8"        | UNISTRUT 1 5/8 DOWN | 3/8"         | 38"     |        |      | 1"     | 0"    | 1"     | 0'-0"    |
| SS.L3.01                                           | 1        | 3'-2"        | UNISTRUT 1 5/8 DOWN | 3/8"         | 70 1/4" |        |      | 1"     | 0"    | 1"     | 0'-0"    |
| SS.L3.02                                           | 2        | 3'-10"       | UNISTRUT 1 5/8 DOWN | 3/8"         | 52 1/2" |        |      | 1"     | 0"    | 1"     | 0'-0"    |
| SS.L3.03                                           | 1        | 3'-10"       | UNISTRUT 1 5/8 DOWN | 3/8"         | 70 3/4" |        |      | 1"     | 0"    | 1"     | 0'-0"    |
| UNISTRUT 1 5/8 UP                                  |          |              |                     |              |         |        |      |        |       |        |          |
| SS.L3.04                                           | 1        | 0'-10"       | UNISTRUT 1 5/8 UP   | 3/8"         | 25"     |        |      | 1"     | 0"    | 1"     | 0'-2"    |
| SS.L3.05                                           | 2        | 0'-10"       | UNISTRUT 1 5/8 UP   | 3/8"         | 26 1/4" |        |      | 1"     | 0"    | 1"     | 0'-2"    |
| SS.L3.11                                           | 1        | 0'-10"       | UNISTRUT 1 5/8 UP   | 3/8"         | 68 1/4" |        |      | 1"     | 0"    | 1"     | 0'-2"    |
| SS.L3.12                                           | 3        | 0'-10"       | UNISTRUT 1 5/8 UP   | 3/8"         | 72 1/4" |        |      | 1"     | 0"    | 1"     | 0'-2"    |
| SS.L3.28                                           | 1        | 0'-10"       | UNISTRUT 1 5/8 UP   | 3/8"         | 33 1/2" |        |      | 1"     | 0"    | 1"     | 0'-2"    |
| SS.L3.29                                           | 8        | 0'-10"       | UNISTRUT 1 5/8 UP   | 3/8"         | 27 1/2" |        |      | 1"     | 0"    | 1"     | 0'-2"    |
| SS.L3.30                                           | 2        | 0'-10"       | UNISTRUT 1 5/8 UP   | 3/8"         | 29 1/2" |        |      | 1"     | 0"    | 1"     | 0'-2"    |
| SS.L3.34                                           | 1        | 0'-10"       | UNISTRUT 1 5/8 UP   | 3/8"         | 75"     |        |      | 1"     | 0"    | 1"     | 0'-2"    |
| SS.L3.13                                           | 2        | 1'-0"        | UNISTRUT 1 5/8 UP   | 3/8"         | 26 1/4" |        |      | 1"     | 0"    | 1"     | 0'-2"    |
| SS.L3.15                                           | 2        | 1'-0"        | UNISTRUT 1 5/8 UP   | 3/8"         | 52 1/2" |        |      | 1"     | 0"    | 1"     | 0'-2"    |
| SS.L3.17                                           | 5        | 1'-0"        | UNISTRUT 1 5/8 UP   | 3/8"         | 29 1/2" |        |      | 1"     | 0"    | 1"     | 0'-2"    |
| SS.L3.38                                           | 1        | 1'-0"        | UNISTRUT 1 5/8 UP   | 3/8"         | 77 1/4" |        |      | 1"     | 0"    | 1"     | 0'-2"    |
| SS.L3.16                                           | 2        | 1'-2"        | UNISTRUT 1 5/8 UP   | 3/8"         | 27 1/2" |        |      | 1"     | 0"    | 1"     | 0'-2"    |
| SS.L3.18                                           | 1        | 1'-2"        | UNISTRUT 1 5/8 UP   | 3/8"         | 54 1/4" |        |      | 1"     | 0"    | 1"     | 0'-2"    |
| SS.L3.19                                           | 1        | 1'-2"        | UNISTRUT 1 5/8 UP   | 3/8"         | 68 1/4" |        |      | 1"     | 0"    | 1"     | 0'-2"    |
| SS.L3.21                                           | 1        | 1'-8"        | UNISTRUT 1 5/8 UP   | 3/8"         | 67 1/4" |        |      | 1"     | 0"    | 1"     | 0'-1"    |
| SS.L3.22                                           | 1        | 1'-8"        | UNISTRUT 1 5/8 UP   | 3/8"         | 68 1/4" |        |      | 1"     | 0"    | 1"     | 0'-2"    |
| SS.L3.10                                           | 3        | 1'-10"       | UNISTRUT 1 5/8 UP   | 3/8"         | 29 1/2" |        |      | 1"     | 0"    | 1"     | 0'-2"    |
| SS.L3.23                                           | 1        | 1'-10"       | UNISTRUT 1 5/8 UP   | 3/8"         | 75 1/4" |        |      | 1"     | 0"    | 1"     | 0'-2"    |
| SS.L3.26                                           | 1        | 2'-6"        | UNISTRUT 1 5/8 UP   | 3/8"         | 68 1/4" |        |      | 1"     | 0"    | 1"     | 0'-2"    |
| SS.L3.27                                           | 1        | 2'-10"       | UNISTRUT 1 5/8 UP   | 3/8"         | 68 1/4" |        |      | 1"     | 0"    | 1"     | 0'-2"    |

## MUSIC CULTURE LEVEL 3 LENGTH OF ROD TRAPEZE SCHEDULE

| Product Description | TOTAL ROD LENGTH | DIAMETER | LEVEL   |
|---------------------|------------------|----------|---------|
| SINGLE TIER TRAPEZE | 500' - 11 3/4"   | 3/8"     | LEVEL 3 |

## MUSIC CULTURE LEVEL 3 LENGTH OF ROD J-BOX SCHEDULE

| Product Description | TOTAL ROD LENGTH | DIAMETER | LEVEL   |
|---------------------|------------------|----------|---------|
| J-BOX               | 118' - 11 1/4"   | 3/8"     | LEVEL 3 |

## MUSIC CULTURE LEVEL 3 LENGTH OF ROD CADDY CLIP SCHEDULE

| Product Description     | Q-ty | TOTAL ROD LENGTH | DIAMETER | LEVEL   |
|-------------------------|------|------------------|----------|---------|
| Caddy (Erico) Mini Clip | 63   | 179' - 1 3/4"    | 3/8"     | LEVEL 3 |

## MUSIC CULTURE LEVEL 3 LENGHT OF STRUT SCHEDULE

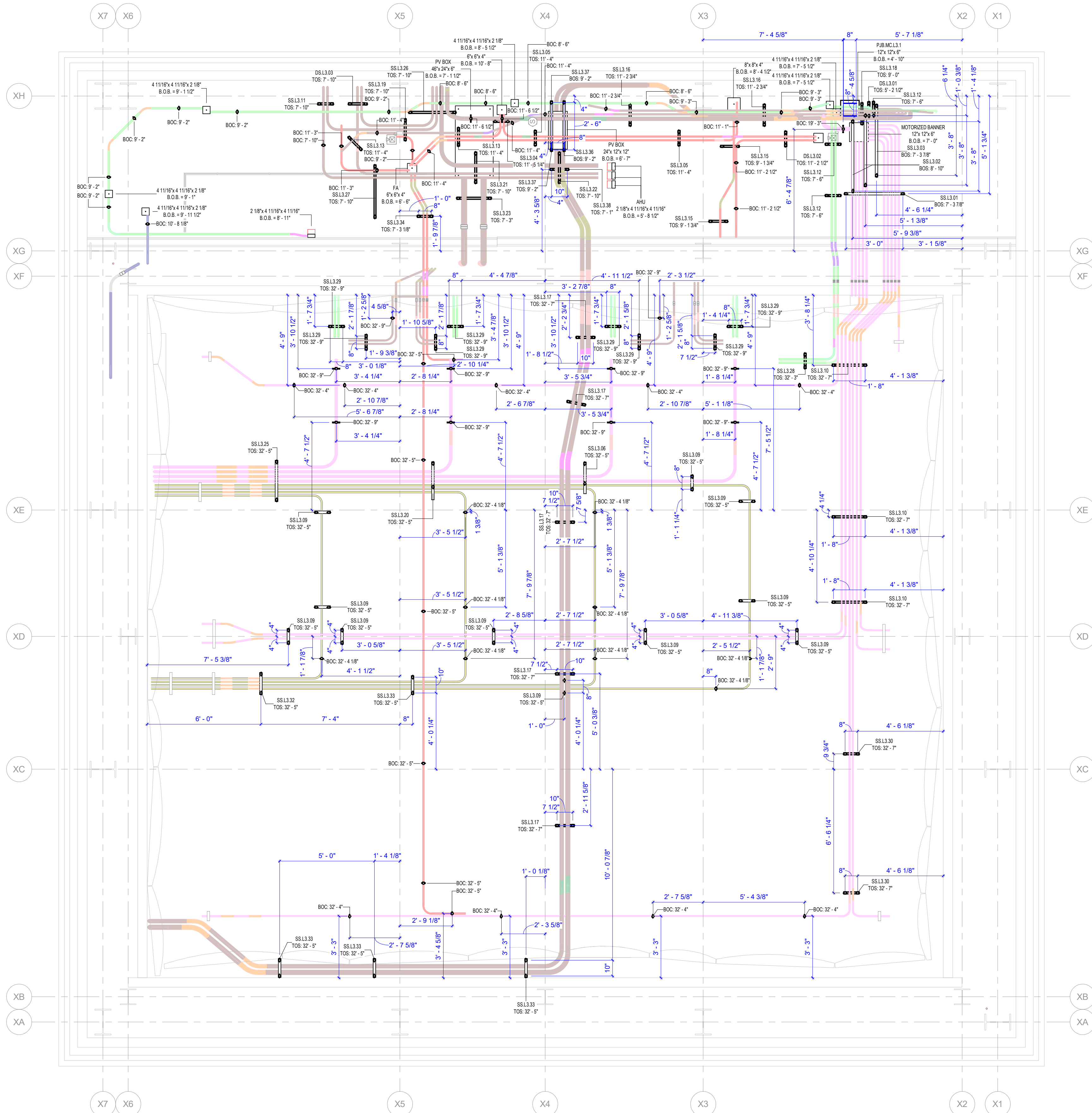
| STRUT TYPE         | STRUT LENGTH | LEVEL   |
|--------------------|--------------|---------|
| 3 1/4 B2B UNISTRUT | 1' - 2"      | LEVEL 3 |
| UNISTRUT 1 5/8"    | 18' - 6"     | LEVEL 3 |
| UNISTRUT 7/8"      | 6' - 0"      | LEVEL 3 |

## MUSIC CULTURE LEVEL 3 LENGHT OF TRAPEZE STRUT SCHEDULE

| Product Description | STRUT TYPE          | STRUT LENGTH | LEVEL   |
|---------------------|---------------------|--------------|---------|
| SINGLE TIER TRAPEZE | 3 1/4 B2B UNISTRUT  | 2' - 8"      | LEVEL 3 |
| SINGLE TIER TRAPEZE | UNISTRUT 1 5/8 DOWN | 21' - 0"     | LEVEL 3 |
| SINGLE TIER TRAPEZE | UNISTRUT 1 5/8 UP   | 70' - 0"     | LEVEL 3 |

## MUSIC CULTURE LEVEL 3 J-BOX SCHEDULE

| Q-ty | LENGTH   | WIDTH    | HEIGHT   |
|------|----------|----------|----------|
| 4    | 2 1/8"   | 4 11/16" | 4 11/16" |
| 6    | 4 11/16" | 4 11/16" | 2 1/8"   |
| 3    | 6"       | 6"       | 4"       |
| 1    | 8"       | 8"       | 4"       |
| 2    | 12"      | 12"      | 6"       |
| 1    | 24"      | 12"      | 12"      |
| 1    | 46"      | 24"      | 6"       |



## JUNCTION BOX TAG:

SIZE JUNCTION BOX → X"X X"X"  
BOTTOM OF JUNCTION BOX ABOVE LEVEL → B.O.B. = X' X"

## SUPPORT TAG:

TOS: X' - X" = TOP OF STRUT ABOVE LEVEL  
BOS: X' - X" = BOTTOM OF STRUT ABOVE LEVEL  
BOC: X' - X" = BOTTOM OF CONDUITS ABOVE LEVEL

1 MC LEVEL 03 - HANGER INSTALLATION LAYOUT  
3/8" = 1'-0"

| DATE     | DESCRIPTION             | REVISION |
|----------|-------------------------|----------|
| 05/22/23 | ISSUED FOR CONSTRUCTION | 1        |

BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

LEGEND:

ORIGINAL PRINT SIZE = 36x48

KEY PLAN:

JOB NUMBER: 00001  
ISSUED FOR:  
DATE: 5/23/2023 3:12:38 PM  
DRAWN BY: Author  
CHECKED BY: Checker  
DRAWING SCALE: As indicated  
SHEET TITLE:

OVERHEAD SUPPORT LAYOUT

DRAWING NUMBER: E06-01-01

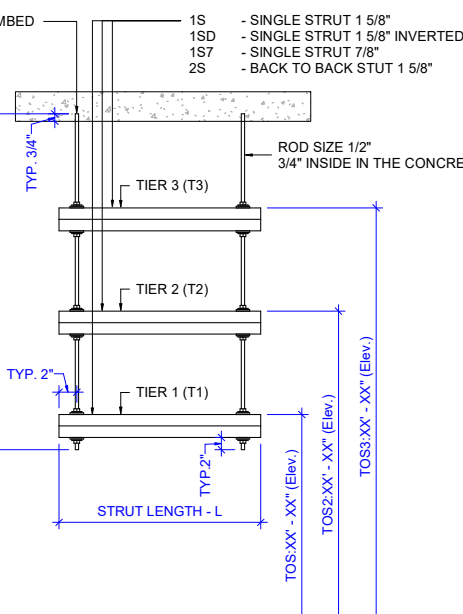


[illegible]

FIELD APPROVAL STAMP:

LEGEND:

### BACK SUPPORT DIMENSIONS



ORIGINAL PRINT SIZE = 36x48

## Y PLAN

B NUMBER: 00001

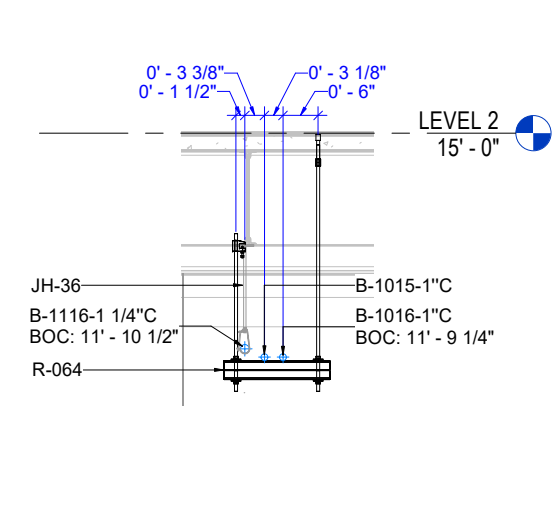
TE: 5/23/2023 3:12:39 PM

|                |                     |
|----------------|---------------------|
| AWN BY: Author | CHECKED BY: Checker |
|----------------|---------------------|

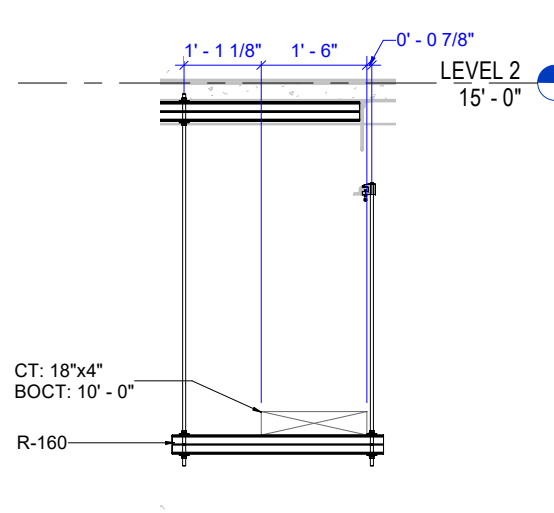
**DRAWING SCALE:** As indicated

## OVERHEAD SUPPORT SECTIONS

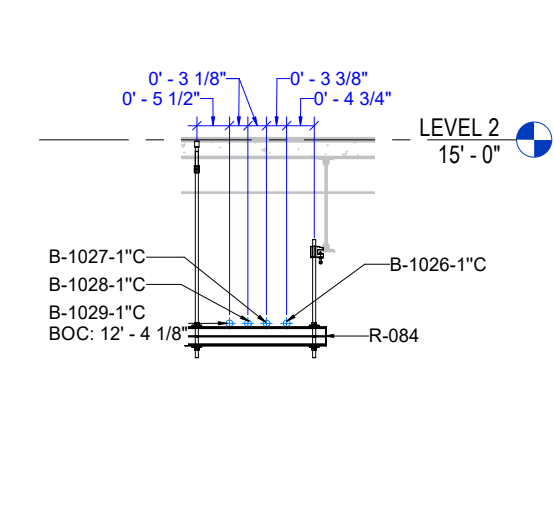
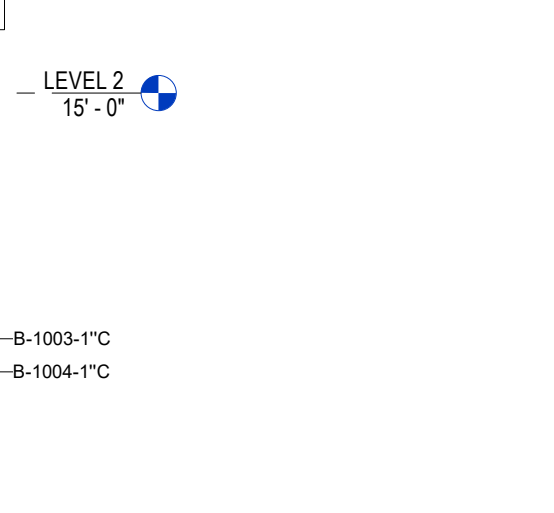
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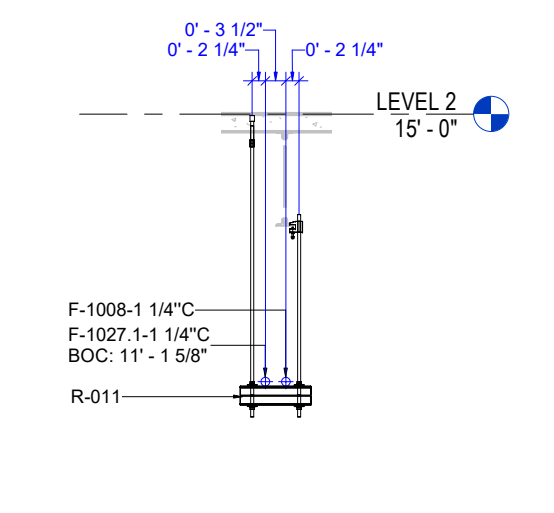
⑧ SUPPORT LEVEL 1 - AREA A - SECTION - 8  
1/2" = 1'-0"



16 SUPPORT LEVEL 1 - AREA A - SECTION - 1  
1/2" = 1'-0"



31 SUPPORT LEVEL 1 - AREA A - SECTION - 3  
1/2" = 1'-0"



39 SUPPORT LEVEL 1 - AREA A - SECTION - 3  
1/2" = 1'-0"



# ELECTRICAL ROOM LAYOUT



201 Spear Street, Suite 1750  
San Francisco, CA 94105

| DATE     | REVISION | DESCRIPTION             |
|----------|----------|-------------------------|
| 05/22/23 | 1        | ISSUED FOR CONSTRUCTION |

BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

## LEGEND:

### CONDUITS:

- NORMAL POWER 120/208V
- NORMAL POWER 277/480V
- EMERGENCY POWER 120/208V
- EMERGENCY POWER 277/480V
- LIFE SAFETY EMERGENCY POWER 120/208V
- FIRE ALARM
- TELE DATA
- ERRCS

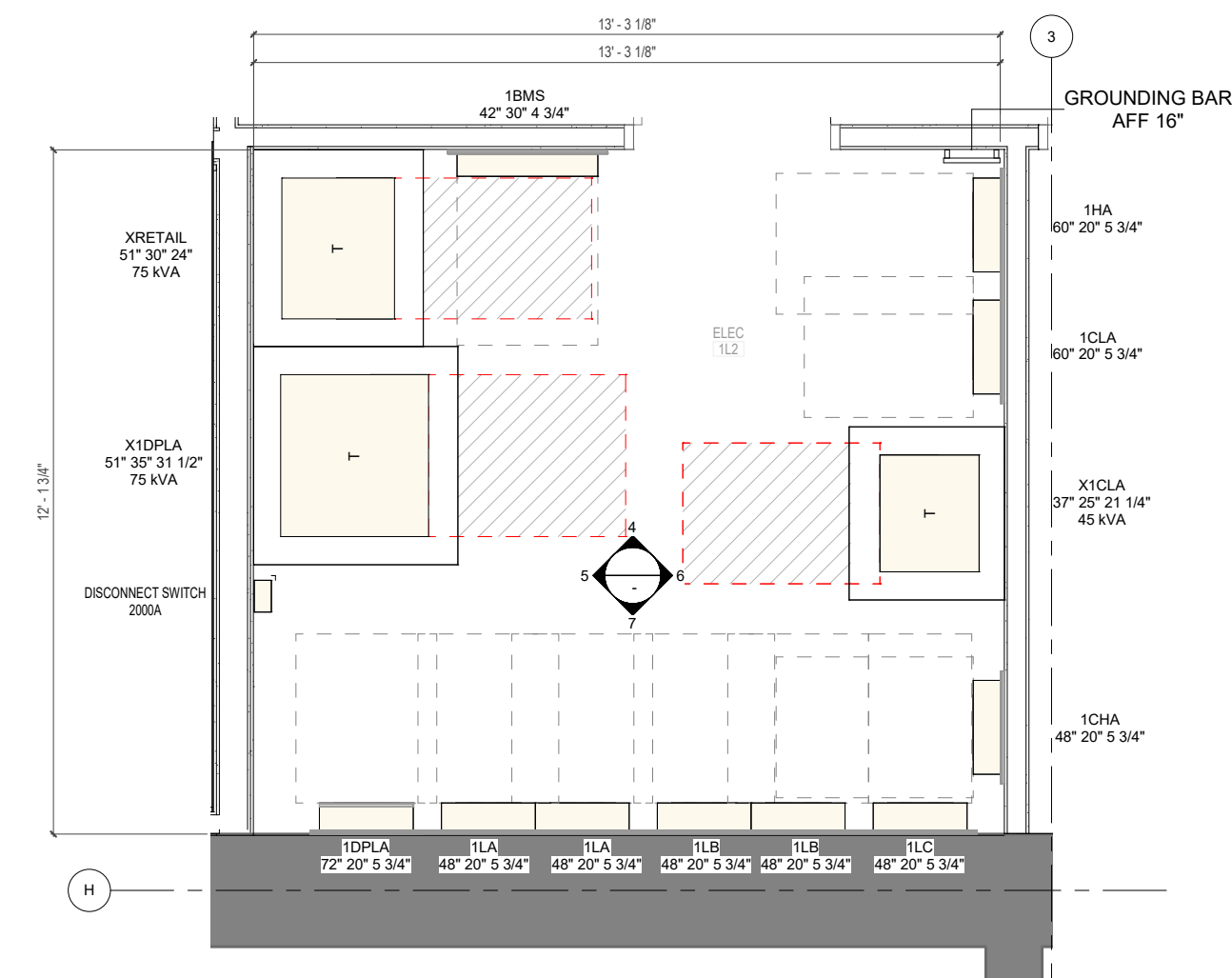
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KEY PLAN:

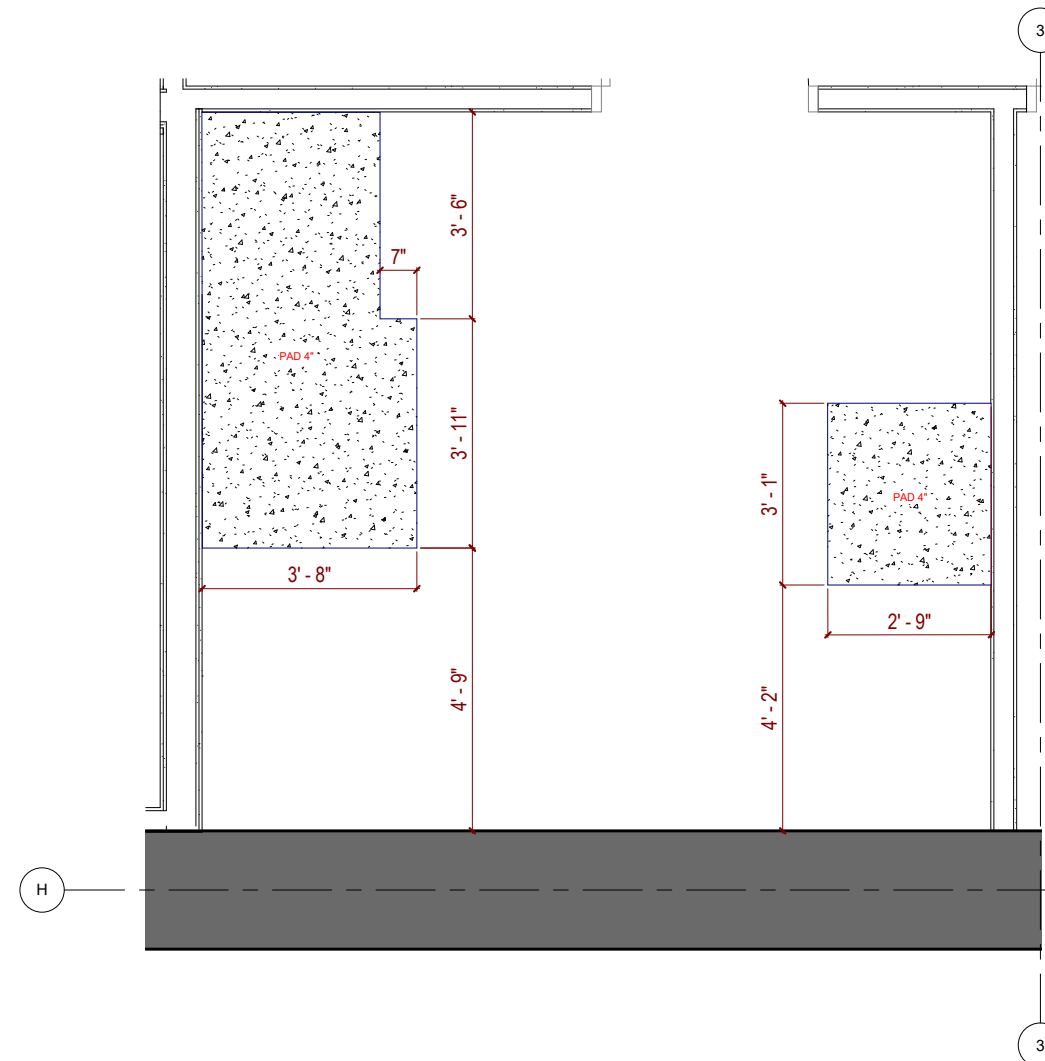
JOB NUMBER: 00001  
ISSUED FOR:  
DATE: 5/23/2023 3:12:38 PM  
DRAWN BY: Author  
CHECKED BY: Checker  
DRAWING SCALE: As indicated  
SHEET TITLE:

ELECTRICAL ROOM LAYOUT

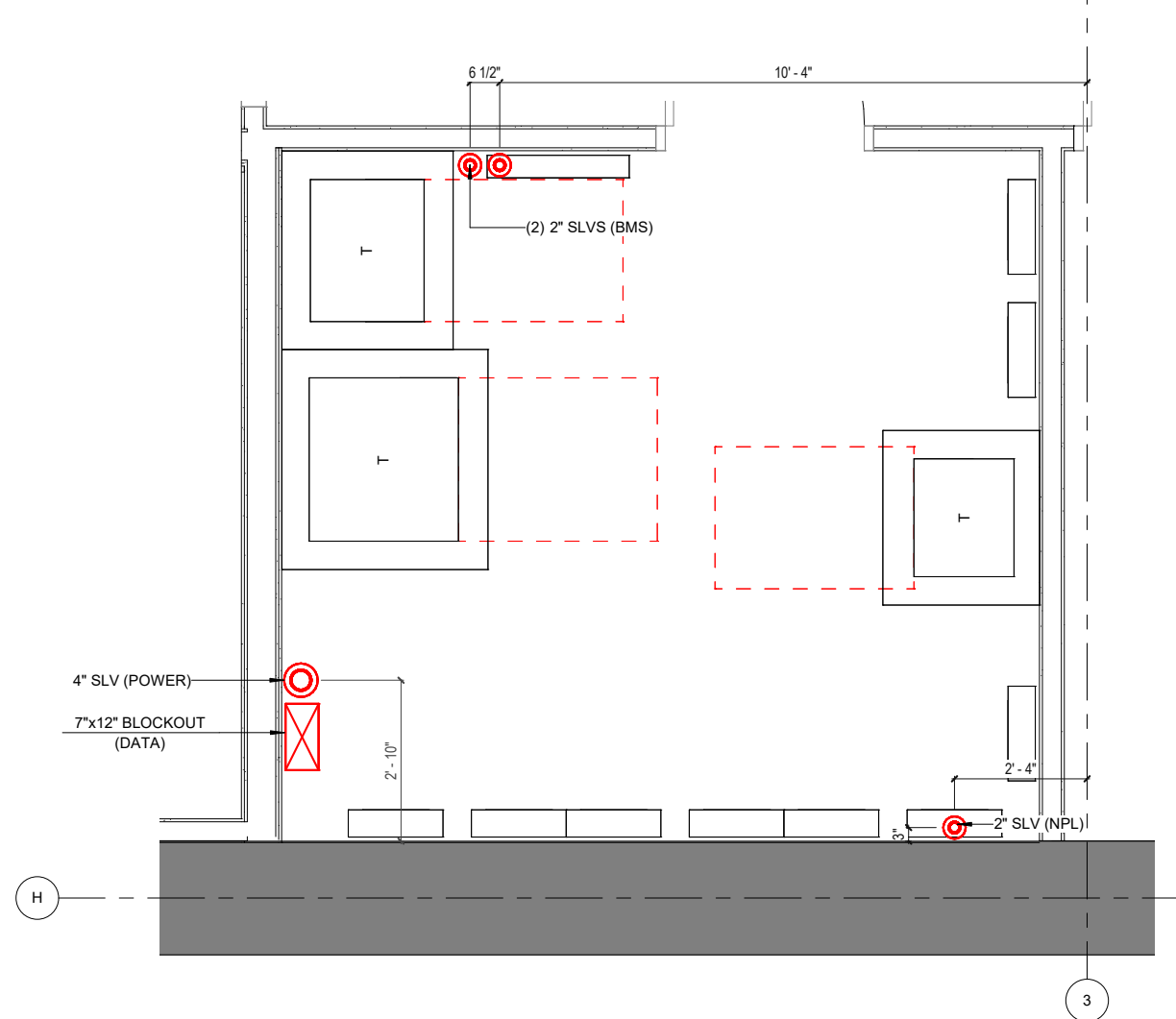
DRAWING NUMBER: E07-01-01



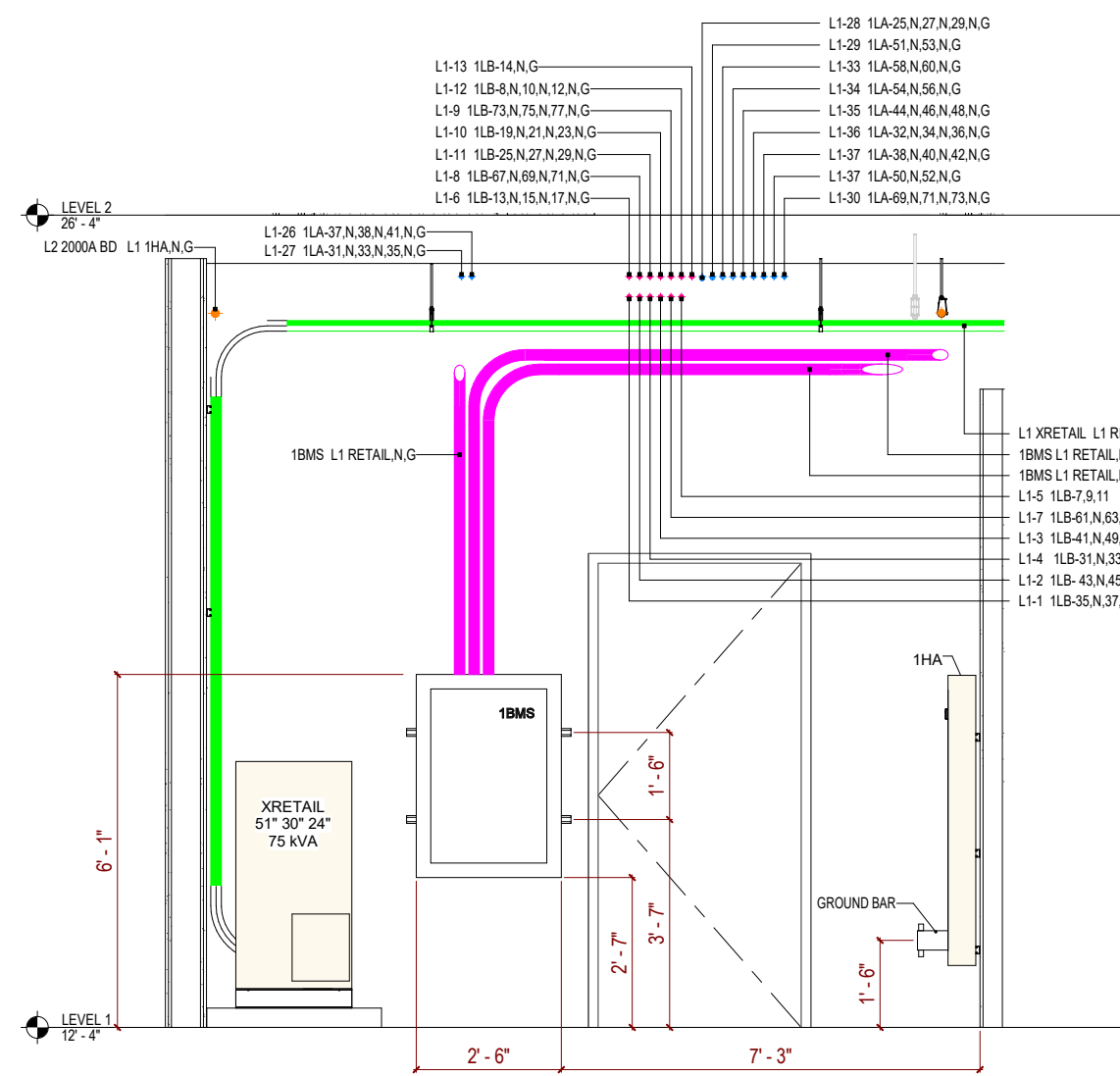
1 WALL ELEVATIONS - L1 - ELEC. 1L2 - DETAIL 1  
1/2" = 1'-0"



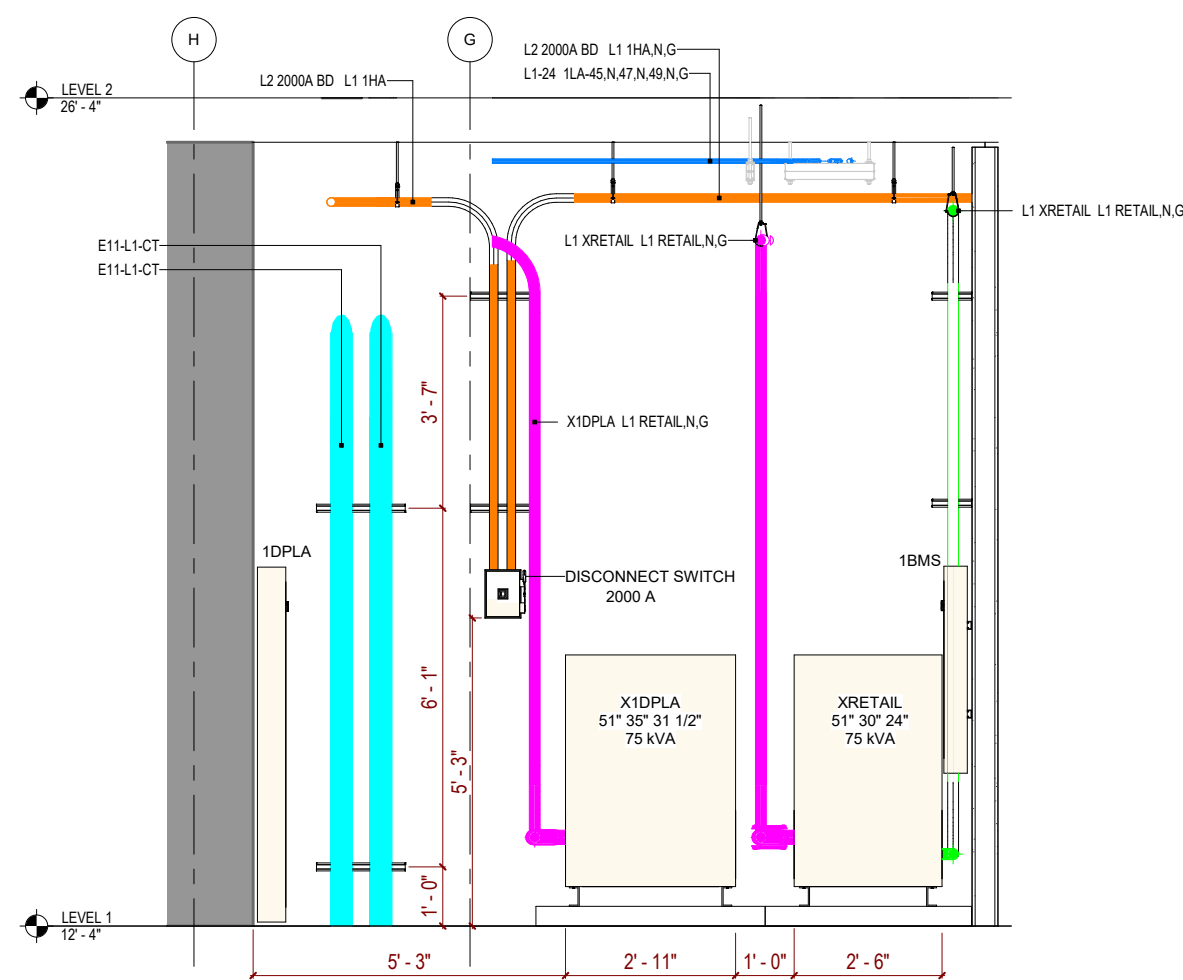
2 PAD LAYOUTS - L1 - ELEC. 1L2 - DETAIL 2  
1/2" = 1'-0"



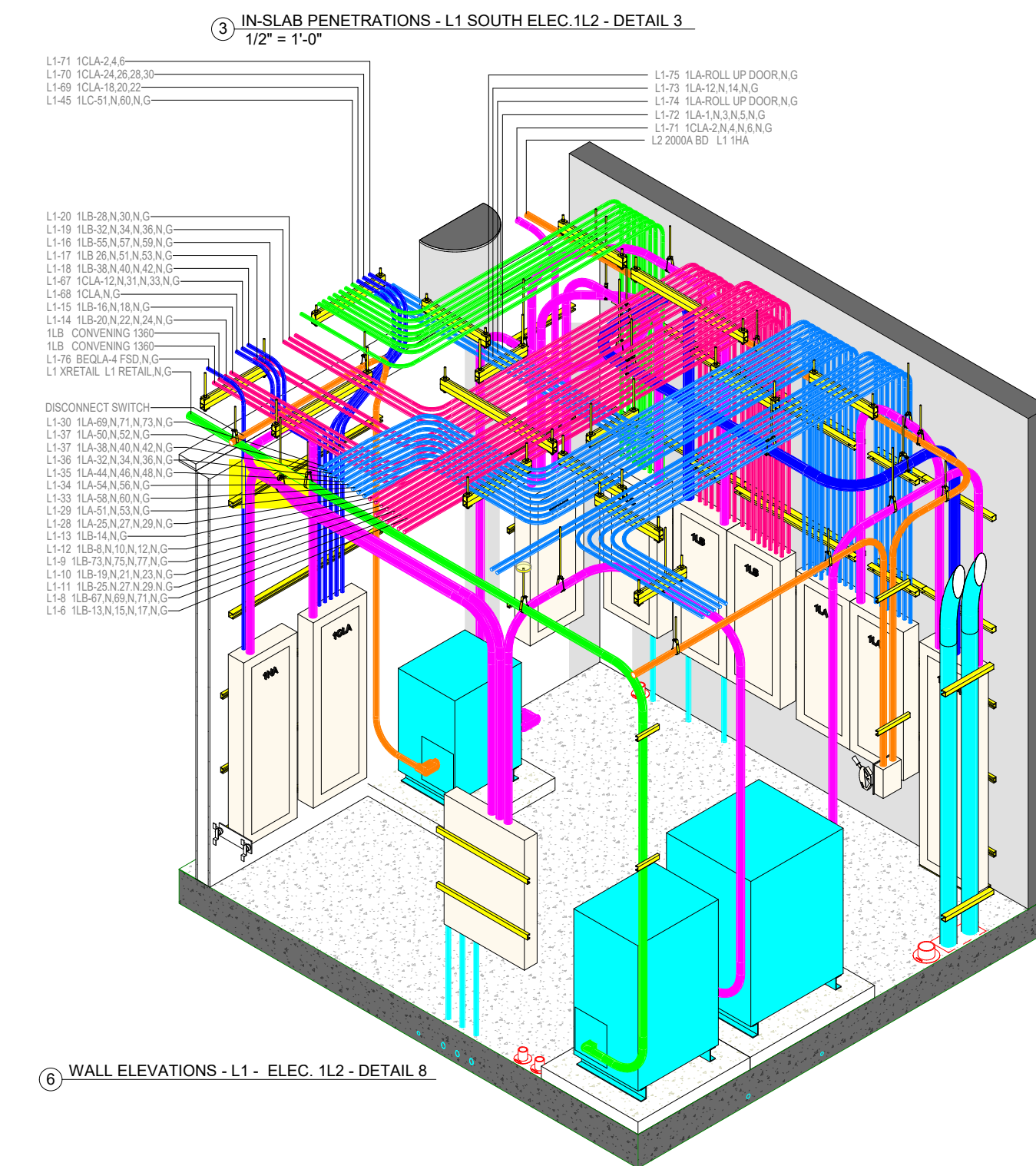
3 IN-SLAB PENETRATIONS - L1 SOUTH ELEC. 1L2 - DETAIL 3  
1/2" = 1'-0"



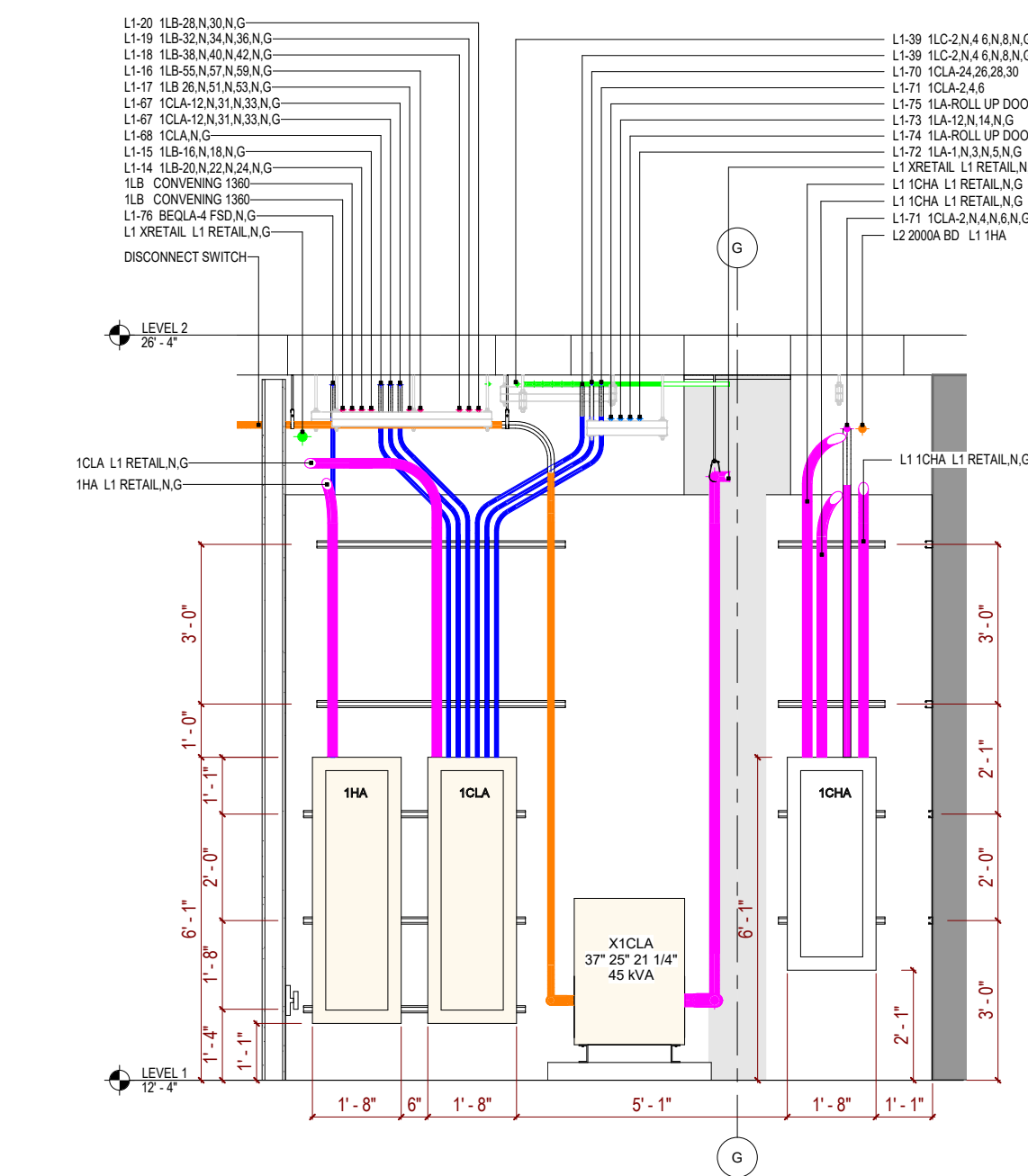
4 NORTH WALL ELEVATIONS - L1 - ELEC. 1L2 - DETAIL 4  
1/2" = 1'-0"



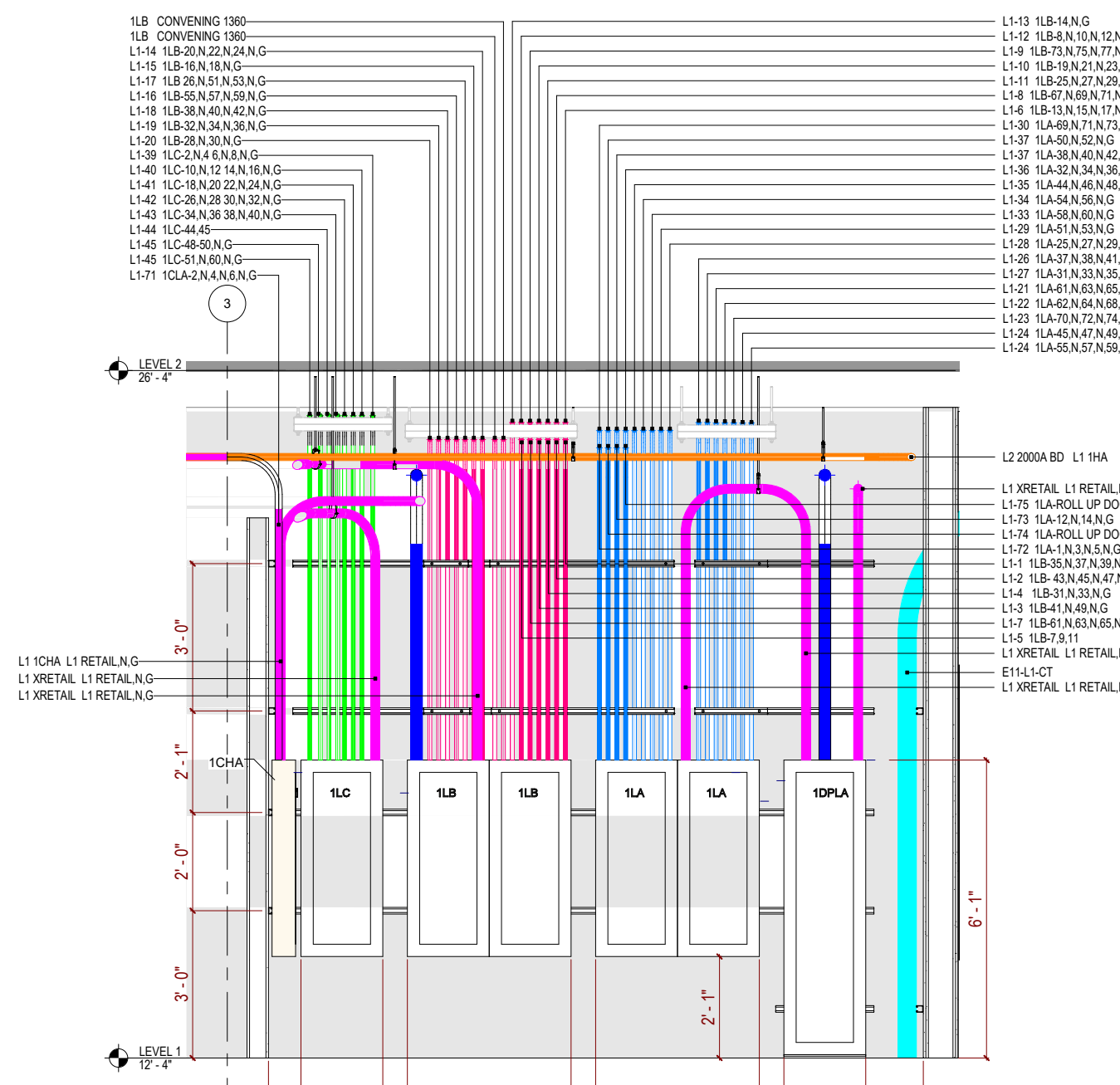
5 WEST WALL ELEVATIONS - L1 - ELEC. 1L2 - DETAIL 5  
1/2" = 1'-0"



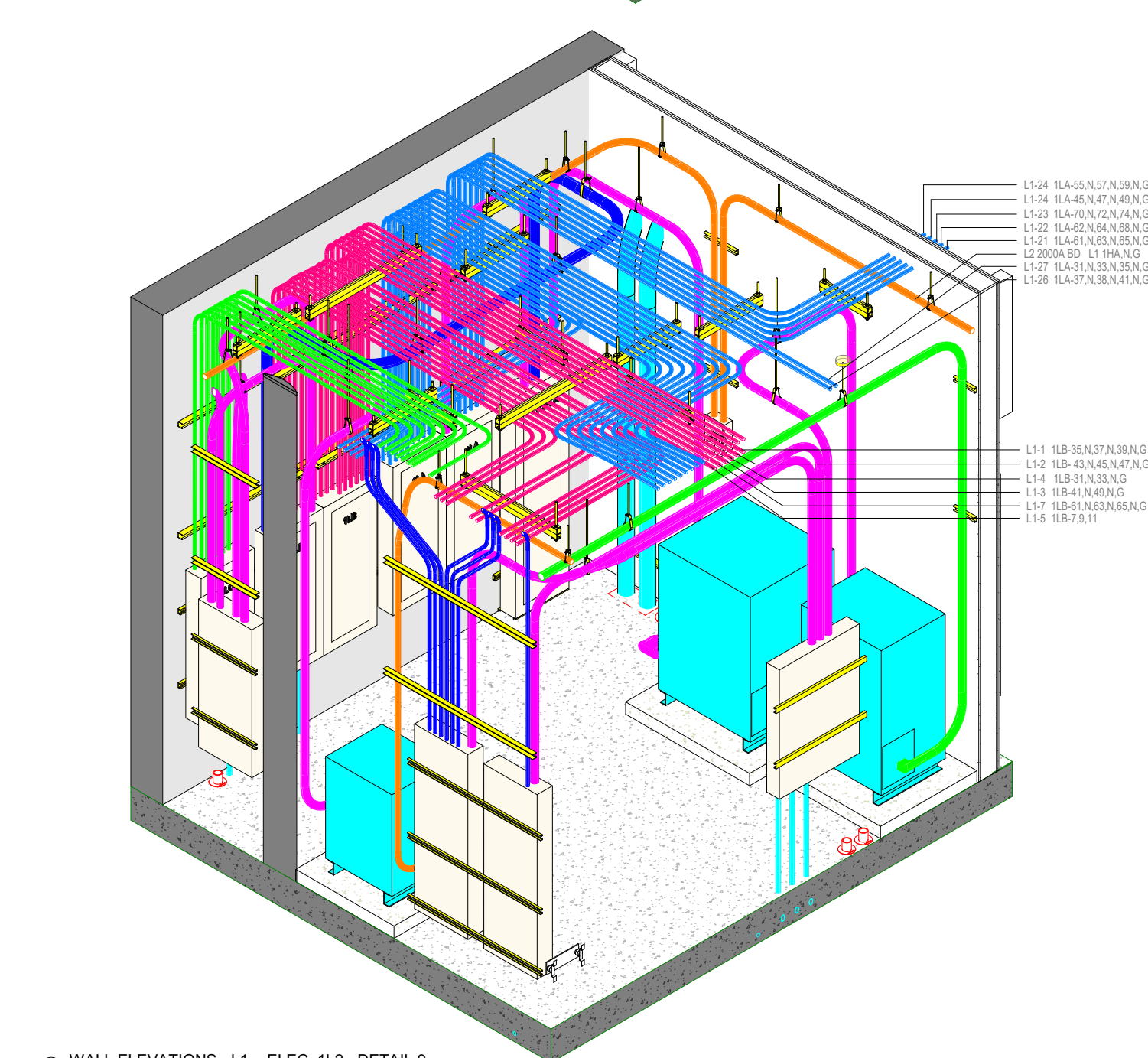
6 WALL ELEVATIONS - L1 - ELEC. 1L2 - DETAIL 8  
1/2" = 1'-0"



7 EAST WALL ELEVATIONS - L1 - ELEC. 1L2 - DETAIL 6  
1/2" = 1'-0"



8 SOUTH WALL ELEVATIONS - L1 - ELEC. 1L2 - DETAIL 7  
1/2" = 1'-0"



9 WALL ELEVATIONS - L1 - ELEC. 1L2 - DETAIL 9  
1/2" = 1'-0"



# ELECTRICAL ROOM LAYOUT



201 Spear Street, Suite 1750  
San Francisco, CA 94105

## CONDUIT SHEET NOTES

1. ALL CONDUIT EMT
2. ALL BENDS USE FACTORY BEND RADIUS

| OH CONDUIT FEEDERS SCHEDULE - LEVEL 1 - ELECTRICAL ROOM |          |               |
|---------------------------------------------------------|----------|---------------|
| TYPE                                                    | SIZE     | TOTAL LENGTH  |
| EMT                                                     | 1 1/2" C | 95' - 0 3/4"  |
| EMT                                                     | 1 1/4" C | 182' - 4"     |
| EMT                                                     | 1" C     | 64' - 6 7/8"  |
| EMT                                                     | 3/4" C   | 54' - 0 1/8"  |
| EMT                                                     | 3" C     | 142' - 1 3/8" |
| EMT                                                     | 3 1/4" C | 81' - 5 1/2"  |
| EMT                                                     | 4" C     | 69' - 1 1/2"  |

| OH CONDUIT BRANCHES SCHEDULE - LEVEL 1 - ELECTRICAL ROOM |          |              |
|----------------------------------------------------------|----------|--------------|
| TYPE                                                     | SIZE     | TOTAL LENGTH |
| EMT                                                      | 1 1/4" C | 37' - 3 1/8" |
| EMT                                                      | 1" C     | 459' - 8"    |

| OH CONDUIT GROUNDINGS SCHEDULE - LEVEL 1 - ELECTRICAL ROOM |        |               |
|------------------------------------------------------------|--------|---------------|
| TYPE                                                       | SIZE   | TOTAL LENGTH  |
| EMT                                                        | 3/4" C | 238' - 0 1/8" |

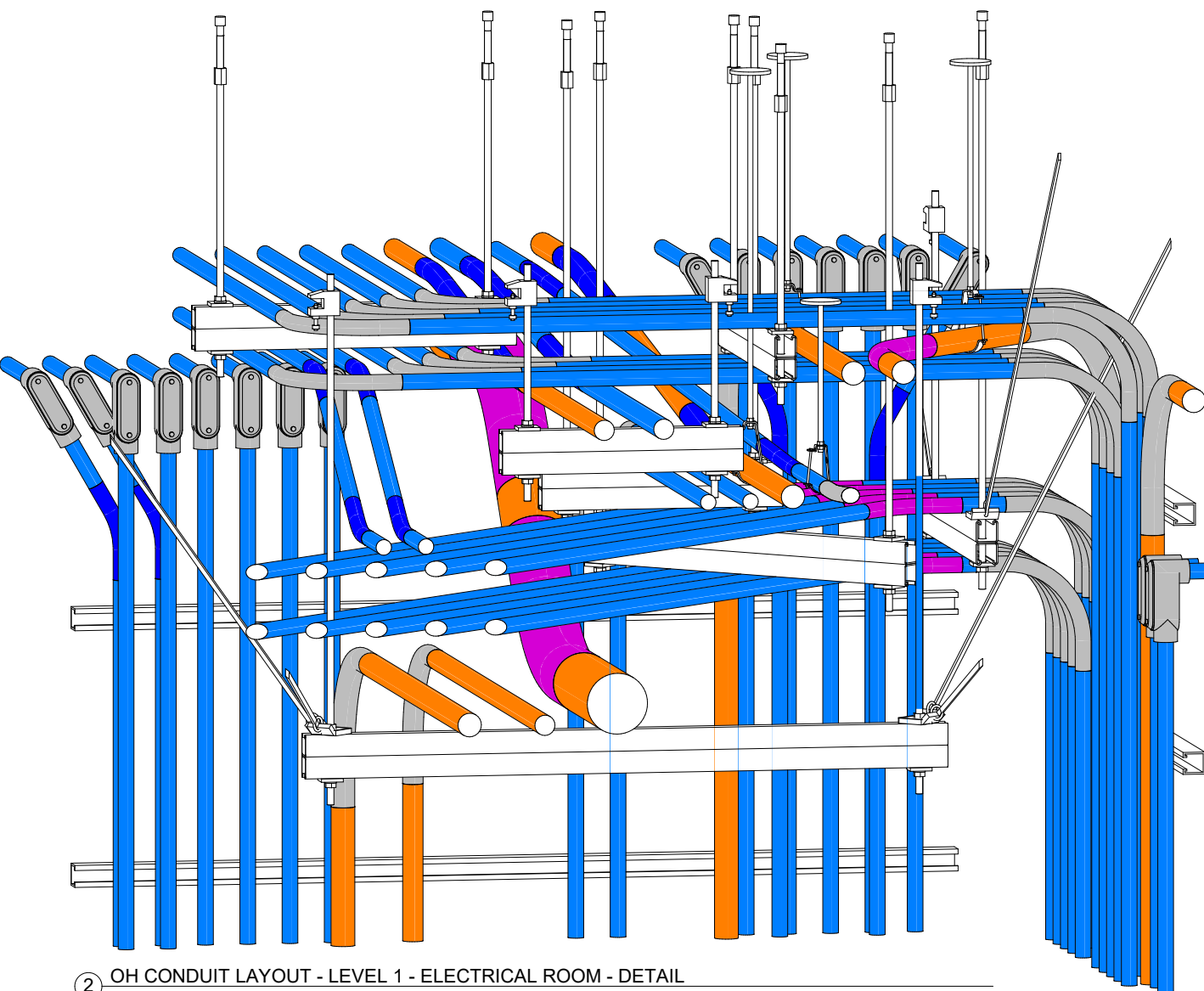
| OH CONDUIT BENDS FEEDER - LEVEL 1 - ELECTRICAL ROOM |             |          |
|-----------------------------------------------------|-------------|----------|
| ANGLE                                               | BEND RADIUS | QUANTITY |
| 1 1/2" C - 1 1/2" C                                 | 30.00"      | 2        |
| 45.00"                                              | 8 1/4"      | 3        |
| 90.00"                                              | 8 1/4"      | 13       |
| 1 1/4" C - 1 1/4" C                                 | 30.00"      | 6        |
| 45.00"                                              | 7 1/4"      | 1        |
| 90.00"                                              | 7 1/4"      | 14       |
| 1" C - 1" C                                         | 22.50"      | 1        |
| 45.00"                                              | 5 3/4"      | 4        |
| 90.00"                                              | 5 3/4"      | 2        |
| 2" C - 2" C                                         | 30.00"      | 13       |
| 45.00"                                              | 13"         | 8        |
| 90.00"                                              | 13"         | 16       |
| 3/4" C - 3/4" C                                     | 30.00"      | 4        |
| 45.00"                                              | 4 1/2"      | 7        |
| 90.00"                                              | 4 1/2"      | 1        |
| 1 1/2" C - 1 1/2" C                                 | 30.00"      | 1        |
| 45.00"                                              | 16"         | 3        |
| 90.00"                                              | 16"         | 4        |
| 105                                                 |             |          |

| OH CONDUIT BENDS BRANCHE - LEVEL 1 - ELECTRICAL ROOM |             |          |
|------------------------------------------------------|-------------|----------|
| ANGLE                                                | BEND RADIUS | QUANTITY |
| 1 1/4" C - 1 1/4" C                                  | 30.00"      | 5        |
| 90.00"                                               | 7 1/4"      | 3        |
| 1" C - 1" C                                          | 5.00"       | 2        |
| 22.50"                                               | 5 3/4"      | 1        |
| 30.00"                                               | 5 3/4"      | 14       |
| 45.00"                                               | 5 3/4"      | 22       |
| 90.00"                                               | 5 3/4"      | 40       |
| 87                                                   |             |          |

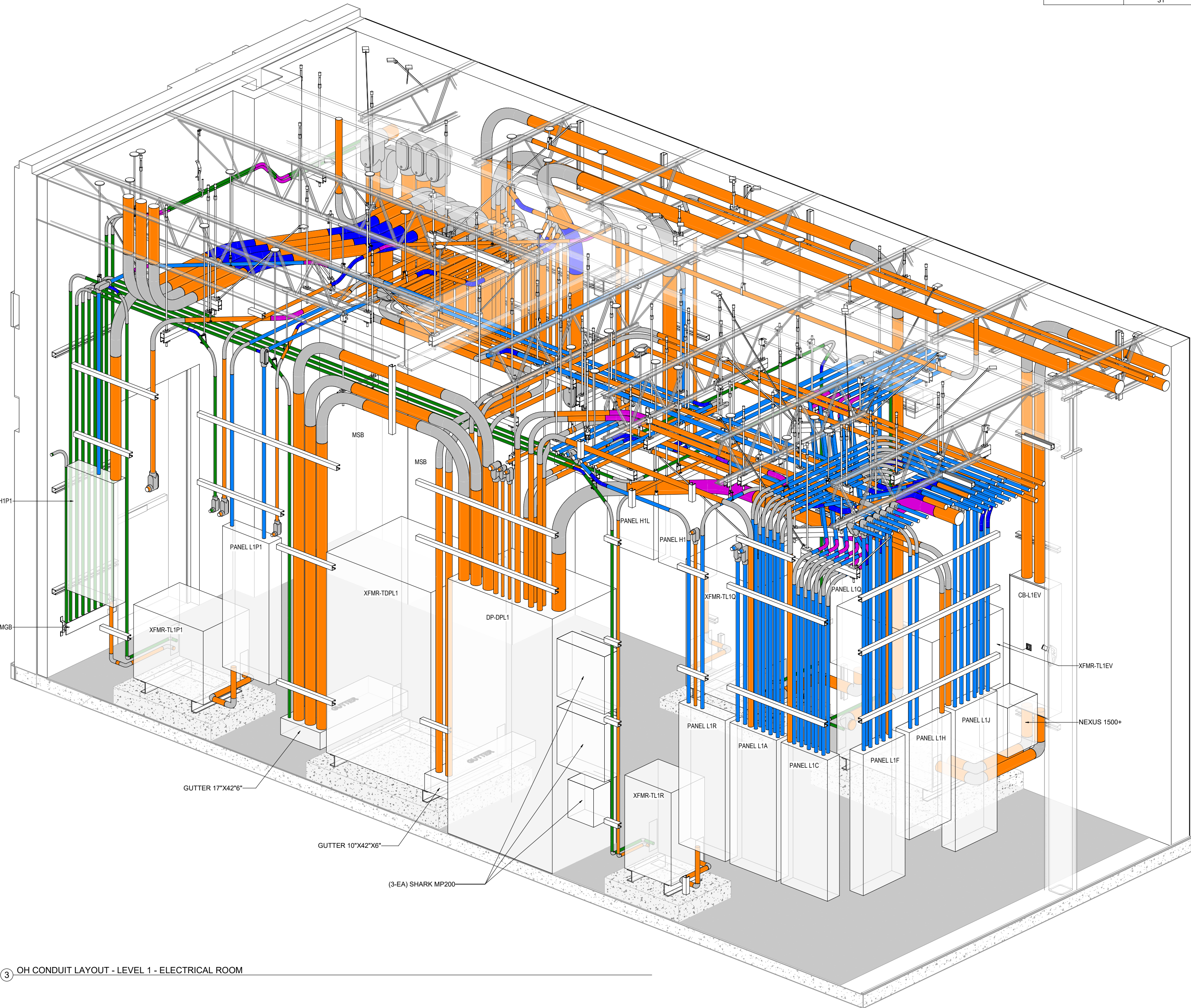
| OH CONDUIT BENDS GROUNDING - LEVEL 1 - ELECTRICAL ROOM |             |          |
|--------------------------------------------------------|-------------|----------|
| ANGLE                                                  | BEND RADIUS | QUANTITY |
| 3/4" C - 3/4" C                                        | 30.00"      | 4        |
| 45.00"                                                 | 4 1/2"      | 6        |
| 90.00"                                                 | 4 1/2"      | 19       |
| 29                                                     |             |          |

| CONDUITS SCHEDULE - LEVEL 1 - ELECTRICAL ROOM |                     |          |
|-----------------------------------------------|---------------------|----------|
| TYPE                                          | SIZE                | QUANTITY |
| CONDUIT TYPE LB                               | 1 1/4" C - 1 1/4" C | 2        |
| CONDUIT TYPE LB                               | 1" C - 1" C         | 19       |
| CONDUIT TYPE LB                               | 3/4" C - 3/4" C     | 5        |
| CONDUIT TYPE LB                               | 4" C - 4" C         | 4        |
| CONDUIT TYPE LL                               | 1" C - 1" C         | 2        |
| CONDUIT TYPE LL                               | 4" C - 4" C         | 1        |
| CONDUIT TYPE LR                               | 1 1/4" C - 1 1/4" C | 2        |
| CONDUIT TYPE LR                               | 3/4" C - 3/4" C     | 2        |
| CONDUIT TYPE LR                               | 4" C - 4" C         | 1        |
| 38                                            |                     |          |

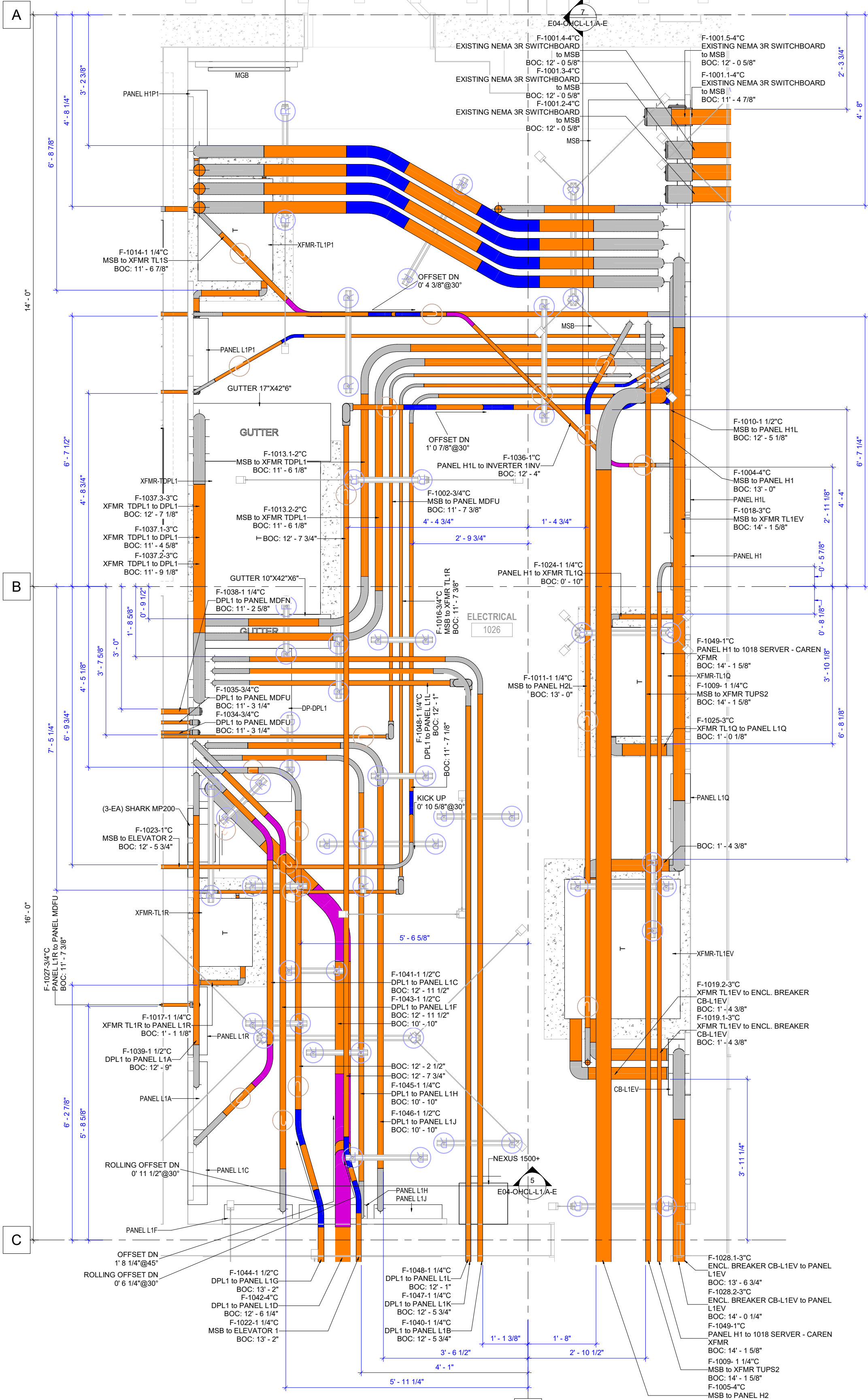
| OH CONDUIT FLEX BENDS SCHEDULE - LEVEL 1<br>- ELECTRICAL ROOM |          |    |
|---------------------------------------------------------------|----------|----|
| ANGLE                                                         | QUANTITY |    |
| 1/2"C-1 1/2"C.                                                | 90.00"   | 2  |
|                                                               | 90.00"   | 1  |
| 1/4"C-1 1/4"C.                                                | 90.00"   | 3  |
|                                                               | 90.00"   | 3  |
| 1"C-1"C.                                                      | 90.00"   | 3  |
|                                                               | 90.00"   | 3  |
| 1"C-3"C.                                                      | 90.00"   | 9  |
|                                                               | 90.00"   | 4  |
| 1/4"C-3/4"C.                                                  | 90.00"   | 6  |
|                                                               | 90.00"   | 4  |
|                                                               |          | 31 |



2 OH CONDUIT LAYOUT - LEVEL 1 - ELECTRICAL ROOM - DETAIL



3 OH CONDUIT LAYOUT - LEVEL 1 - ELECTRICAL ROOM



1 OH FEEDER CONDUIT LAYOUT - LEVEL 1 - ELECTRICAL ROOM

| DATE     | REVISION | DESCRIPTION             |
|----------|----------|-------------------------|
| 05/22/23 | 1        | ISSUED FOR CONSTRUCTION |

BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

## LEGEND:

### CONDUIT COLOR LEGEND BY SYSTEM

- FEEDER CONDUITS
- BRANCH CONDUITS
- GROUNDING CONDUIT
- TELECOM CONDUIT

### CONDUIT BEND LEGEND

- 0-10° BEND (UNDERGROUND ONLY)
- 11.25° BEND
- 15° BEND
- 22.50° BEND
- 30° BEND
- 45° BEND
- 60° BEND
- 90° BEND
- NON-STANDARD BEND

### CONDUIT COLOR LEGEND

- C CONDUIT
- LL CONDUIT
- LB CONDUIT
- LR CONDUIT

### DIMENSION TYPE LEGEND

- CONDUIT
- SUPPORT
- SEISMIC
- MISCELLANEOUS

ORIGINAL PRINT SIZE = 36x48

KEY PLAN:

JOB NUMBER: 00001

ISSUED FOR: 5/23/2023 3:12:38 PM

DATE: 5/23/2023 3:12:38 PM

DRAWING SCALE: As indicated

SHEET TITLE: ELECTRICAL ROOM LAYOUT

DRAWING NUMBER: E07-01-02



BUS DUCT LAYOUT



201 Spear Street, Suite 1750  
San Francisco, CA 94105

| DATE        | 05/22/23                |
|-------------|-------------------------|
| REVISION    | 1                       |
| DESCRIPTION | ISSUED FOR CONSTRUCTION |

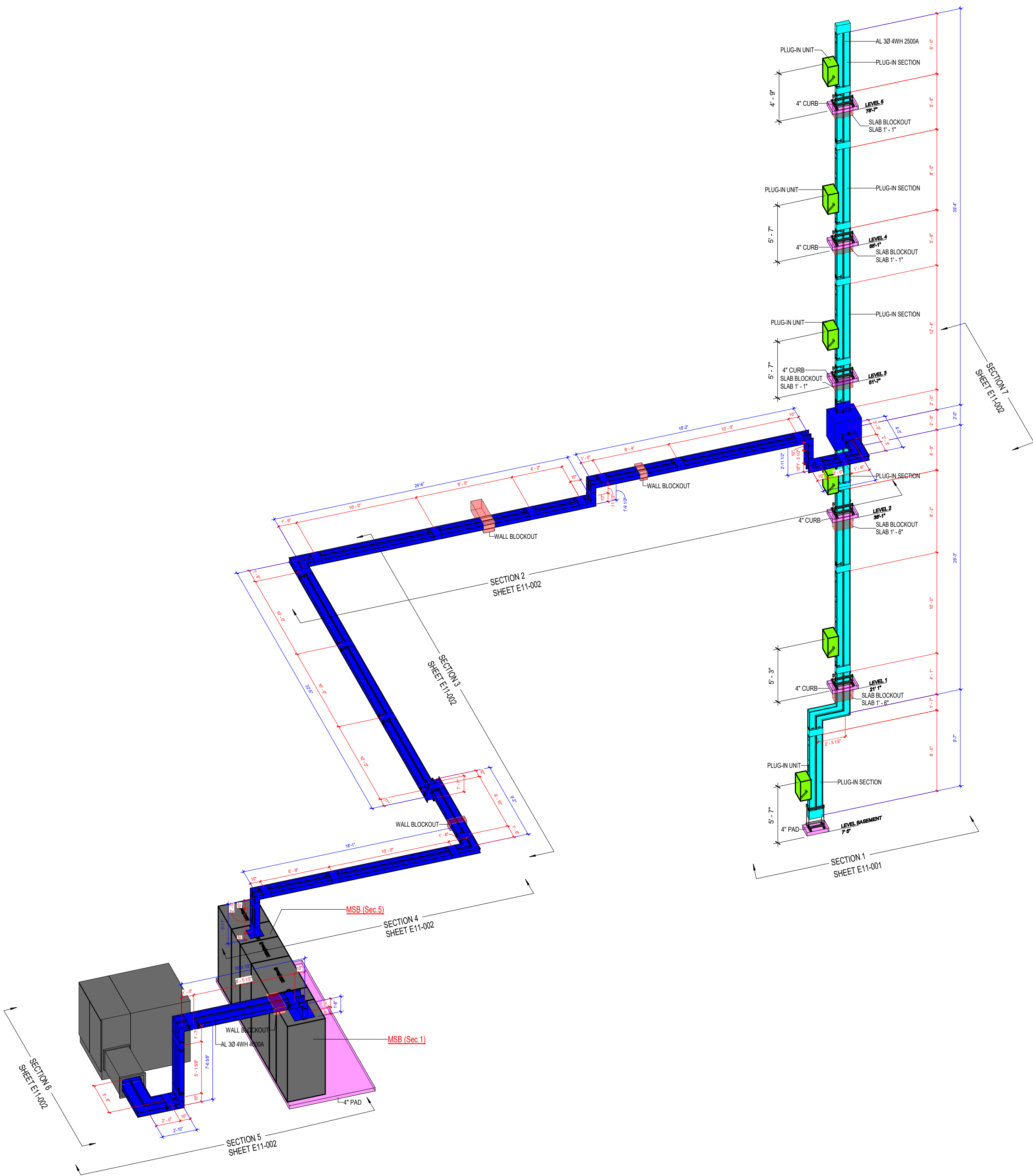
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FIELD APPROVAL STAMP:

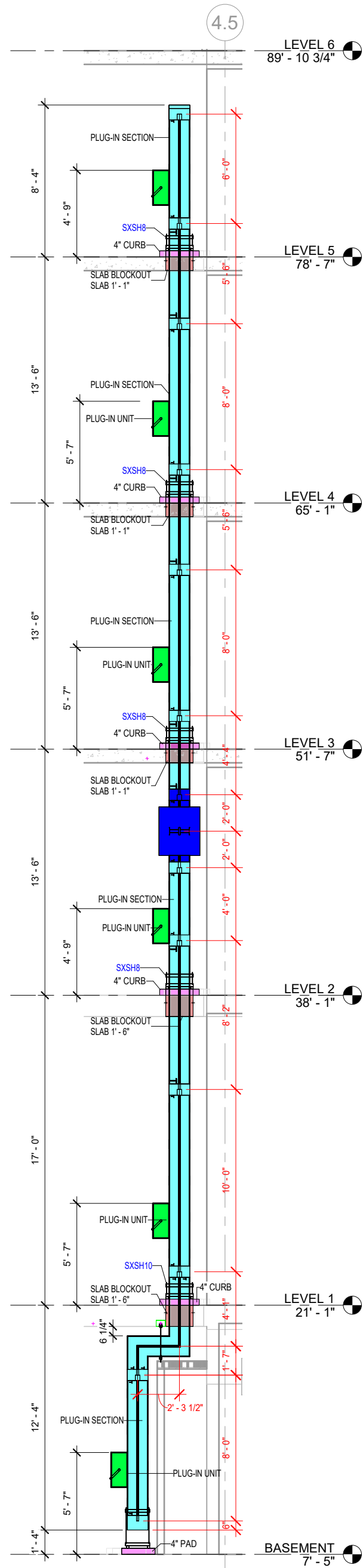
LEGEND:  
BUS DUCT COLOR LEGEND:  
- BUS DUCT IP55  
- BUS DUCT IP40

SUPPORTS LEGEND:  
4 SPRINGS REQUIRED ON EACH SIDE OF FLOOR SUPPORT  
3 SPRINGS REQUIRED ON EACH SIDE OF FLOOR SUPPORT  
FLOOR SUPPORT TO BE INSTALLED IN THE FIELD FOLLOW THE INSTALLATION AND ADJUSTMENT INSTRUCTIONS IN THE STORAGE, INSTALLATION AND MAINTENANCE INSTRUCTIONS FOR SECTION RUNWAY SYSTEMS. ONE (1) SPRING HANGER TYPICAL FOR FLOOR UNLESS OTHERWISE NOTED.  
FLOOR FLANGE (OPTIONAL)  
STEEL SUPPORT BRACKET 2" (200MM) HANGER TO BE INSTALLED BY OTHERS  
FLOOR SUPPORT TO BE INSTALLED IN THE FIELD FOLLOW THE INSTALLATION AND ADJUSTMENT INSTRUCTIONS IN THE STORAGE, INSTALLATION AND MAINTENANCE INSTRUCTIONS FOR SECTION RUNWAY SYSTEMS. ONE (1) SPRING HANGER TYPICAL FOR FLOOR UNLESS OTHERWISE NOTED.  
FLOOR FLANGE (OPTIONAL)  
STEEL SUPPORT BRACKET 2" (200MM) HANGER TO BE INSTALLED BY OTHERS

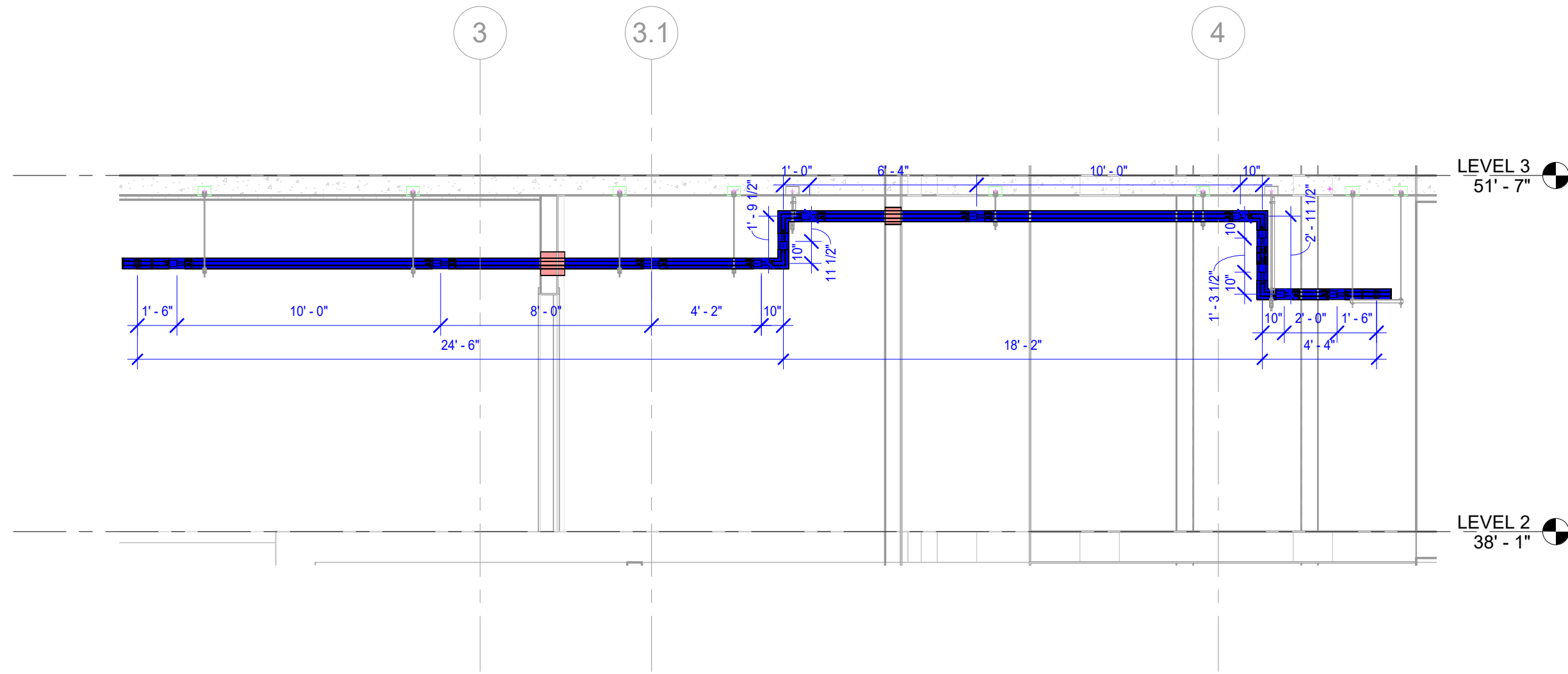
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|------------------------------|
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| KEY PLAN:                    |
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| ISSUED FOR:                  |
| DATE: 5/23/2023 3:12:38 PM   |
| DRAWN BY: Author             |
| CHECKED BY: Checker          |
| DRAWING SCALE: As indicated  |
| SHEET TITLE: BUS DUCT LAYOUT |
| DRAWING NUMBER: E10-01-01    |



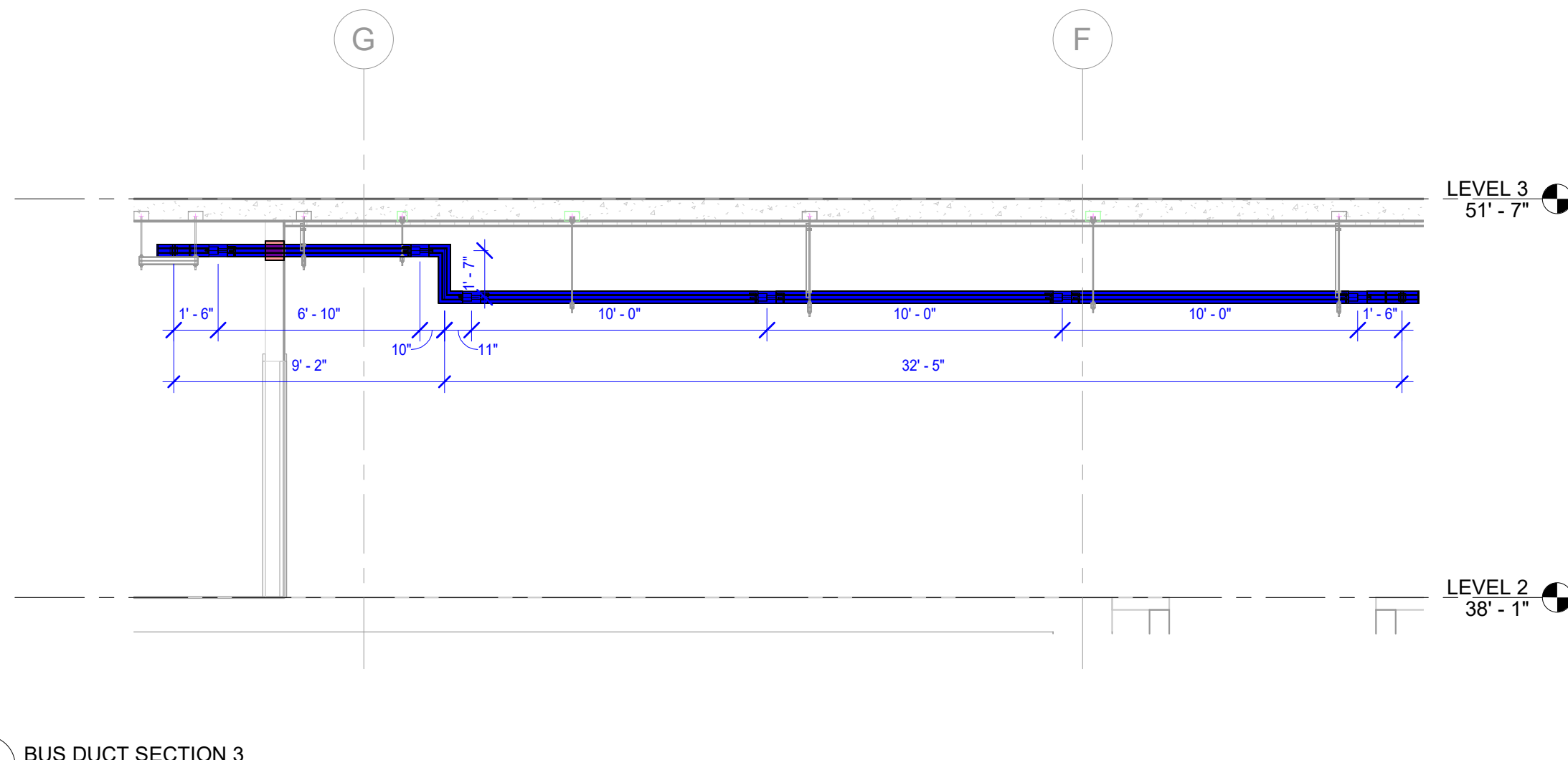
1 BUS DUCT ISOMETRIC DRAWING



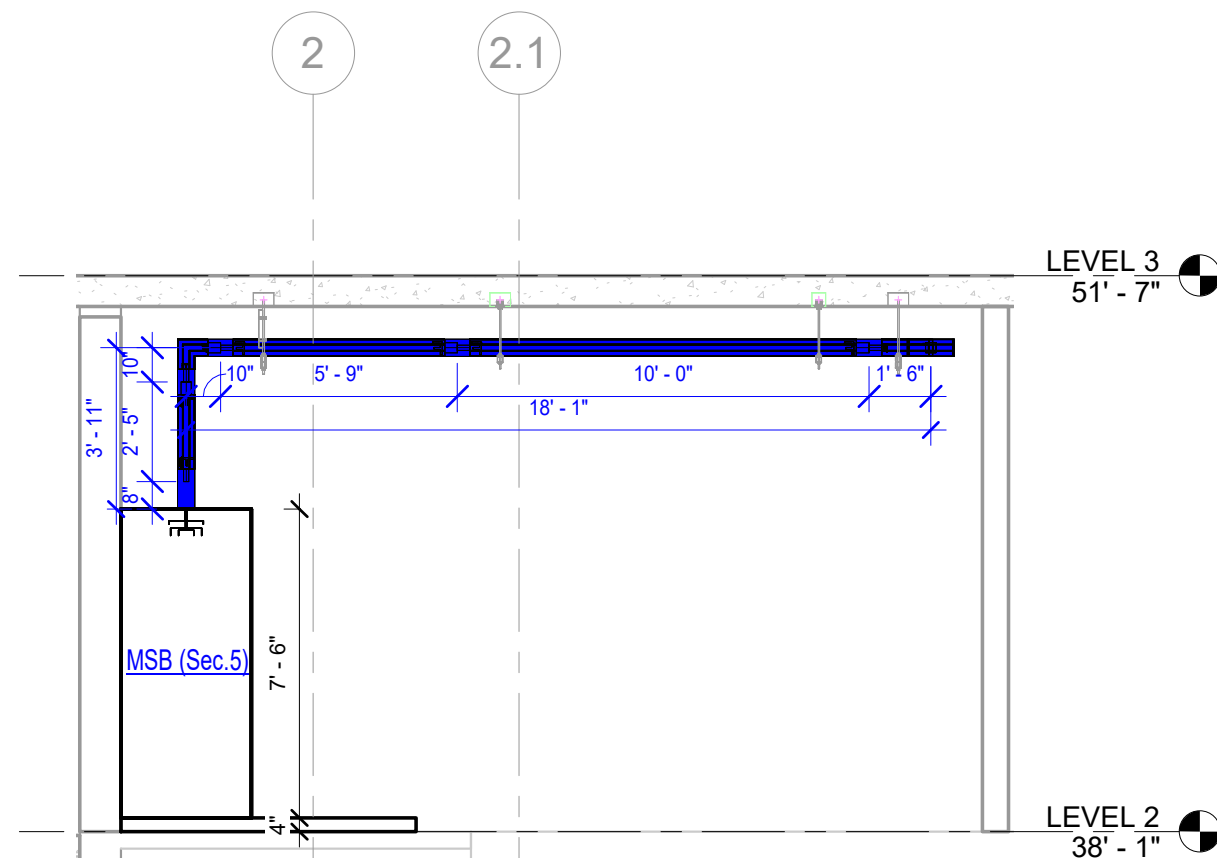
2 BUS DUCT SECTION 1  
1/4" = 1'-0"



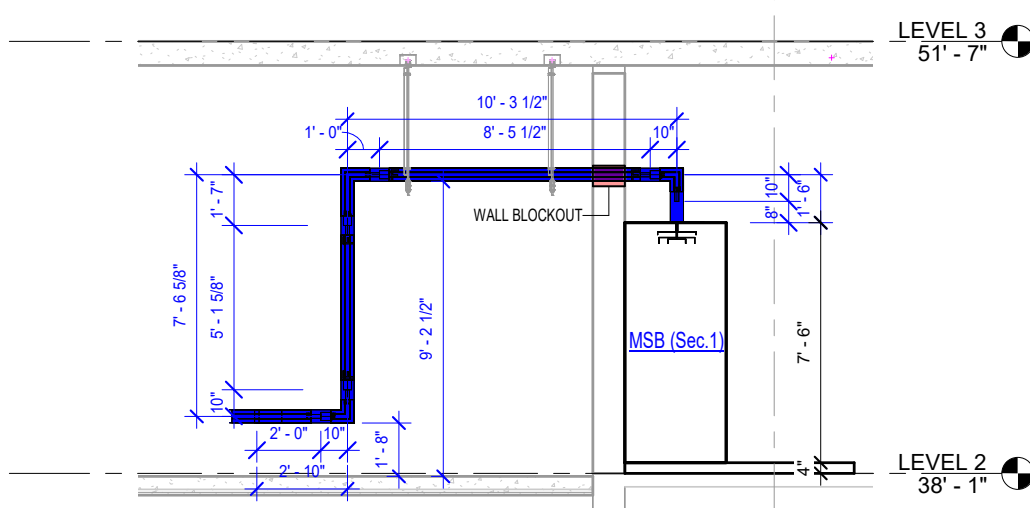
3 BUS DUCT SECTION 2  
1/4" = 1'-0"



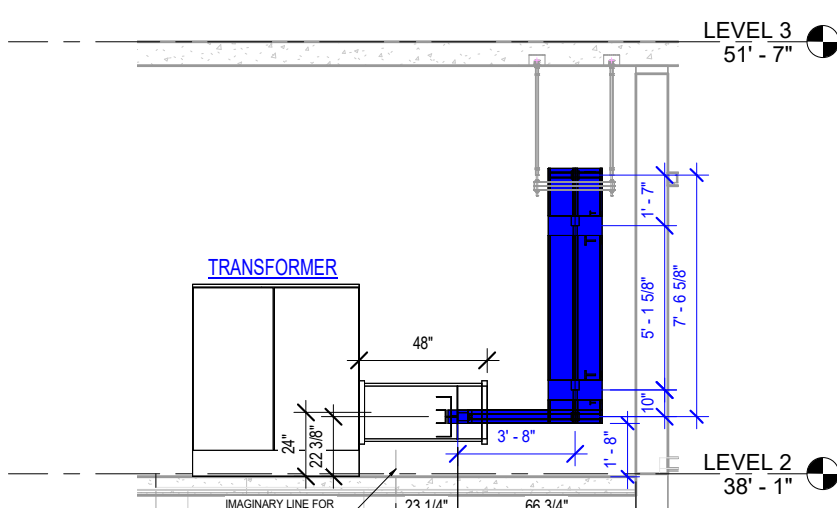
4 BUS DUCT SECTION 3  
1/4" = 1'-0"



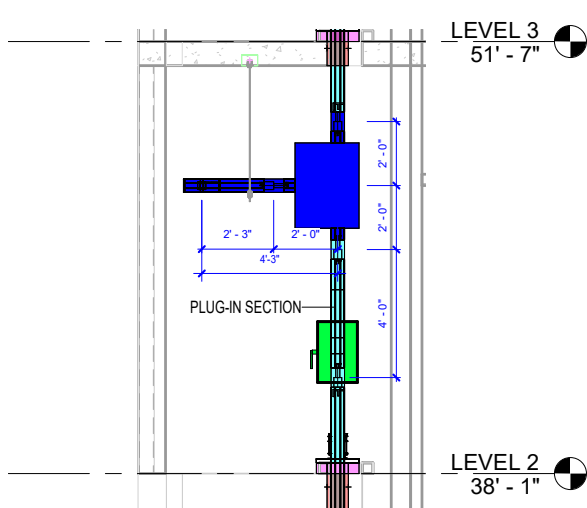
5 BUS DUCT SECTION 4  
1/4" = 1'-0"



6 BUS DUCT SECTION 5  
1/4" = 1'-0"



7 BUS DUCT SECTION 6  
1/4" = 1'-0"



8 BUS DUCT SECTION 7  
1/4" = 1'-0"



# SPOOLING MAP



201 Spear Street, Suite 1750  
San Francisco, CA 94105

**Minnerlac Support  
Numbering**  
**M.LX-XX**  
1. "M" - Support Abbreviation  
2. Level that Strut belongs  
3. Strut Number

**Trapeze Numbering**  
**SS.LX-XX**  
1. Strut Style Abbreviation  
"SS" - Single Strut  
"DS" - Double Strut  
"TS" - Stacked Strut  
"TST" - Triple Stacked Strut  
2. Level that Strut belongs  
3. Strut Number

| ASSEMBLY SCHEDULE LEVEL 9 STANDBY ELEC M103 |           |           |         |
|---------------------------------------------|-----------|-----------|---------|
| ASSEMBLY NUMBER                             | ASSEMBLED | INSTALLED | COMMENT |
| SP-L9-300                                   |           |           |         |
| SP-L9-301                                   |           |           |         |
| SP-L9-302                                   |           |           |         |
| SP-L9-303                                   |           |           |         |
| SP-L9-304                                   |           |           |         |
| SP-L9-305                                   |           |           |         |
| SP-L9-306                                   |           |           |         |
| SP-L9-307                                   |           |           |         |
| SP-L9-308                                   |           |           |         |
| SP-L9-309                                   |           |           |         |
| SP-L9-310                                   |           |           |         |
| SP-L9-311                                   |           |           |         |
| SP-L9-312                                   |           |           |         |
| SP-L9-313                                   |           |           |         |
| SP-L9-314                                   |           |           |         |
| SP-L9-315                                   |           |           |         |
| SP-L9-316                                   |           |           |         |
| SP-L9-317                                   |           |           |         |
| SP-L9-318                                   |           |           |         |
| SP-L9-319                                   |           |           |         |
| SP-L9-320                                   |           |           |         |
| SP-L9-321                                   |           |           |         |
| SP-L9-322                                   |           |           |         |

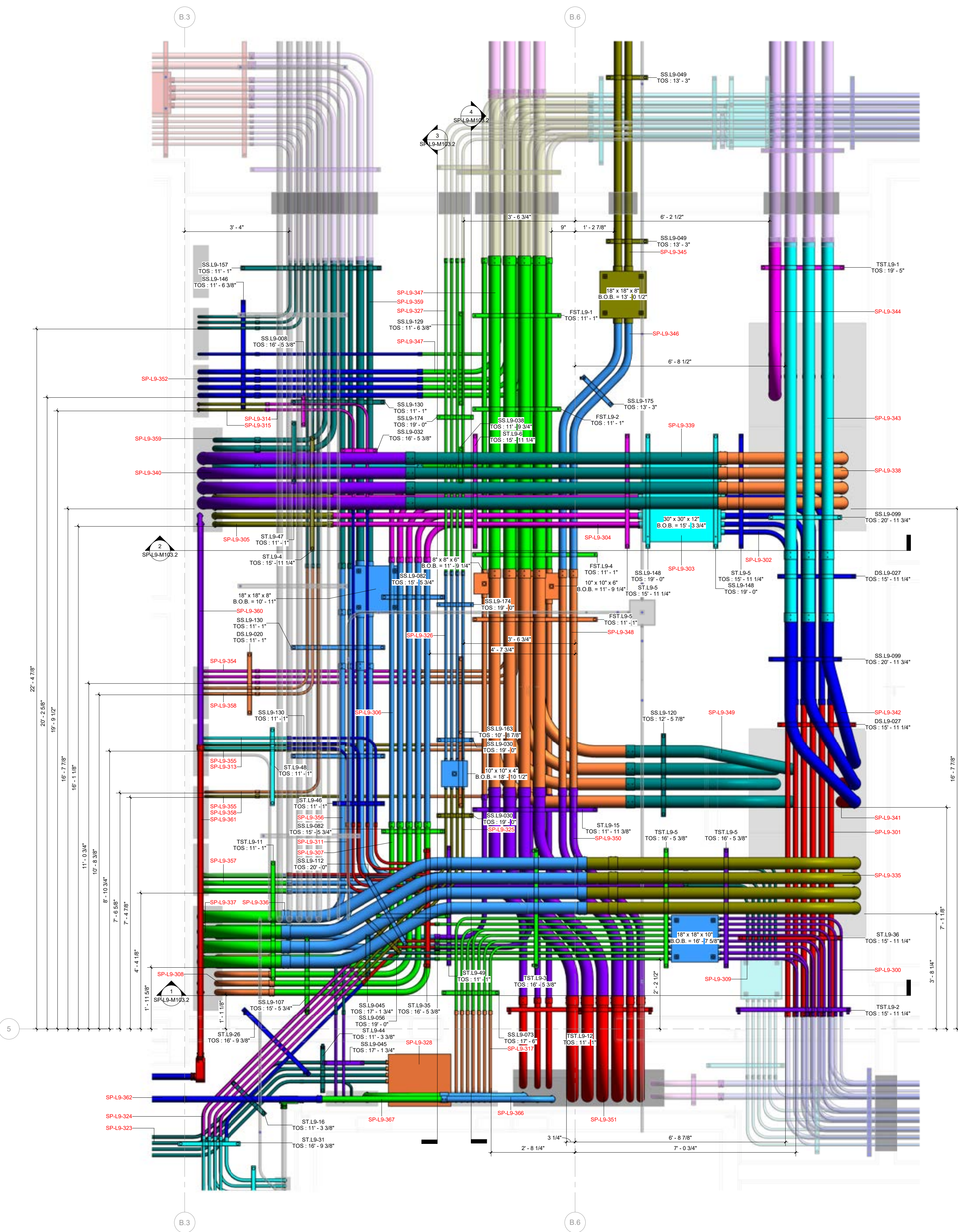
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|---------------------------------------------|-----------|-----------|---------|
| ASSEMBLY NUMBER                             | ASSEMBLED | INSTALLED | COMMENT |
| SP-L9-323                                   |           |           |         |
| SP-L9-324                                   |           |           |         |
| SP-L9-325                                   |           |           |         |
| SP-L9-326                                   |           |           |         |
| SP-L9-327                                   |           |           |         |
| SP-L9-328                                   |           |           |         |
| SP-L9-329                                   |           |           |         |
| SP-L9-330                                   |           |           |         |
| SP-L9-331                                   |           |           |         |
| SP-L9-332                                   |           |           |         |
| SP-L9-333                                   |           |           |         |
| SP-L9-334                                   |           |           |         |
| SP-L9-335                                   |           |           |         |
| SP-L9-336                                   |           |           |         |
| SP-L9-337                                   |           |           |         |
| SP-L9-338                                   |           |           |         |
| SP-L9-339                                   |           |           |         |
| SP-L9-340                                   |           |           |         |
| SP-L9-341                                   |           |           |         |
| SP-L9-342                                   |           |           |         |
| SP-L9-343                                   |           |           |         |
| SP-L9-344                                   |           |           |         |
| SP-L9-345                                   |           |           |         |

| ASSEMBLY SCHEDULE LEVEL 9 STANDBY ELEC M103 |           |           |         |
|---------------------------------------------|-----------|-----------|---------|
| ASSEMBLY NUMBER                             | ASSEMBLED | INSTALLED | COMMENT |
| SP-L9-346                                   |           |           |         |
| SP-L9-347                                   |           |           |         |
| SP-L9-348                                   |           |           |         |
| SP-L9-349                                   |           |           |         |
| SP-L9-350                                   |           |           |         |
| SP-L9-351                                   |           |           |         |
| SP-L9-352                                   |           |           |         |
| SP-L9-353                                   |           |           |         |
| SP-L9-354                                   |           |           |         |
| SP-L9-355                                   |           |           |         |
| SP-L9-356                                   |           |           |         |
| SP-L9-357                                   |           |           |         |
| SP-L9-358                                   |           |           |         |
| SP-L9-359                                   |           |           |         |
| SP-L9-360                                   |           |           |         |
| SP-L9-361                                   |           |           |         |
| SP-L9-362                                   |           |           |         |
| SP-L9-363                                   |           |           |         |
| SP-L9-364                                   |           |           |         |
| SP-L9-365                                   |           |           |         |
| SP-L9-366                                   |           |           |         |
| SP-L9-367                                   |           |           |         |
| TOTAL: 68                                   |           |           |         |

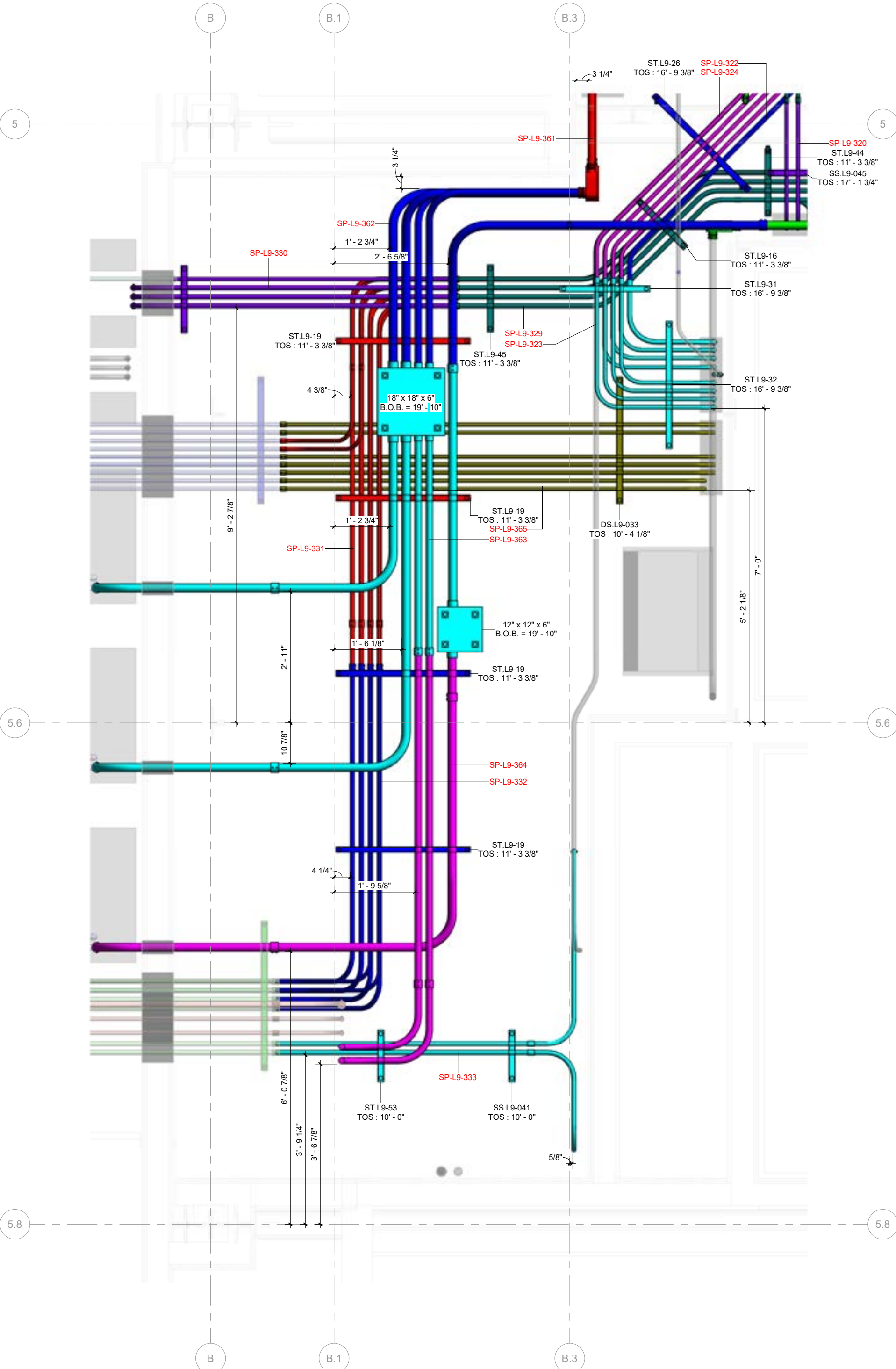
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|          |          |                         |
|          |          |                         |
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|          |          |                         |
|          |          |                         |
|          |          |                         |

All drawings and letter material appearing herein constitute original and unpublished work of the

All drawings and written material appearing herein constitute original and unpublished work of the architect and may not be duplicated, used or disclosed without written consent of the architect.



1 SPOOL MAP 1 - LEVEL 9 - STANDBY ELEC M103  
3/4" = 1'-0"



2 SPOOL MAP 2 - LEVEL 9 - STANDBY ELEC M103  
3/4" = 1'-0"

SPOOLING MAP

DRAWING NUMBER: SP-09-00



# SPOOLING DETAILS



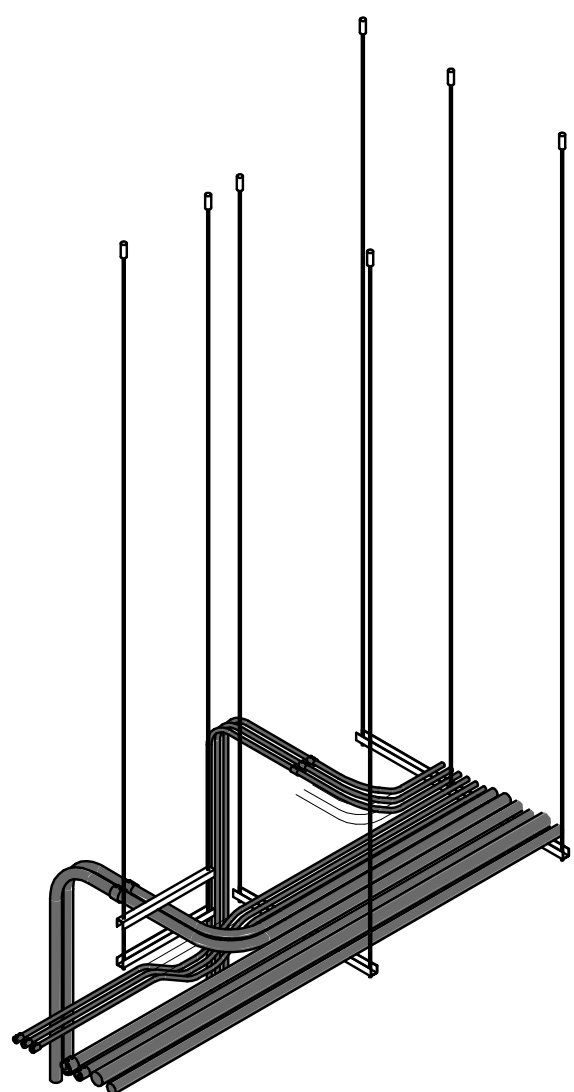
201 Spear Street, Suite 1750  
San Francisco, CA 94105

| DATE                    | 05/22/23 |
|-------------------------|----------|
| REVISION                |          |
| DESCRIPTION             |          |
| ISSUED FOR CONSTRUCTION |          |
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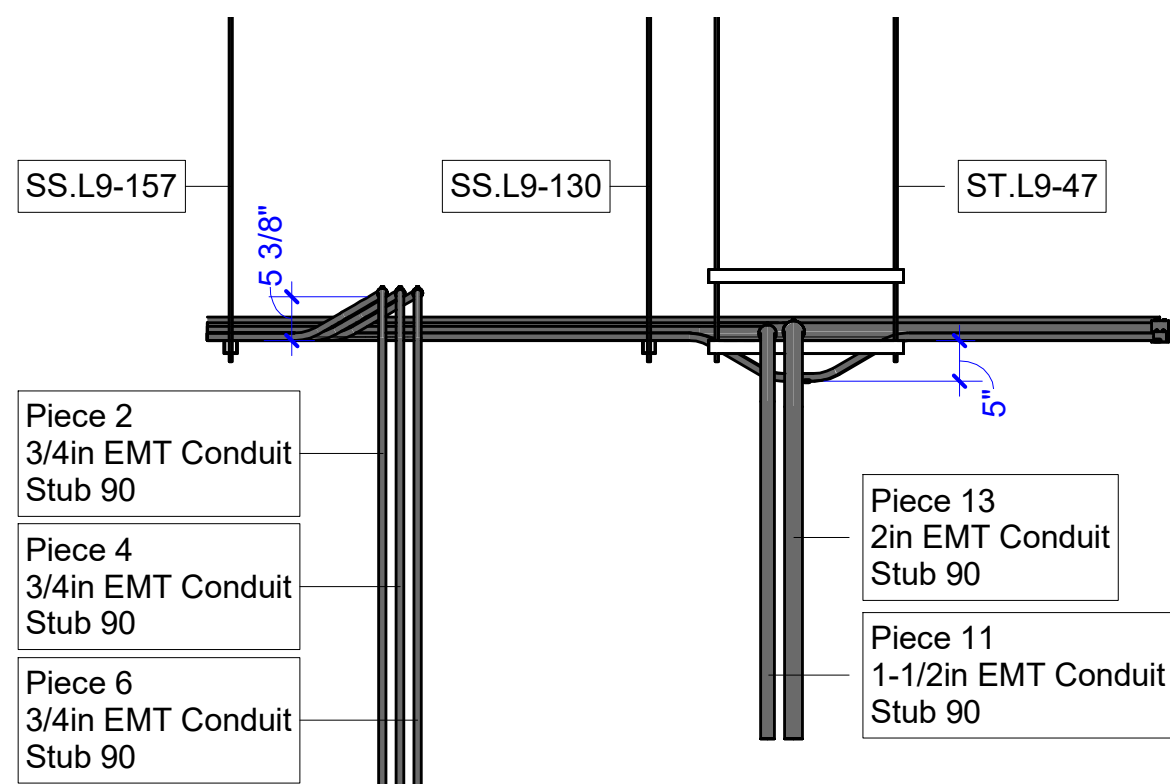
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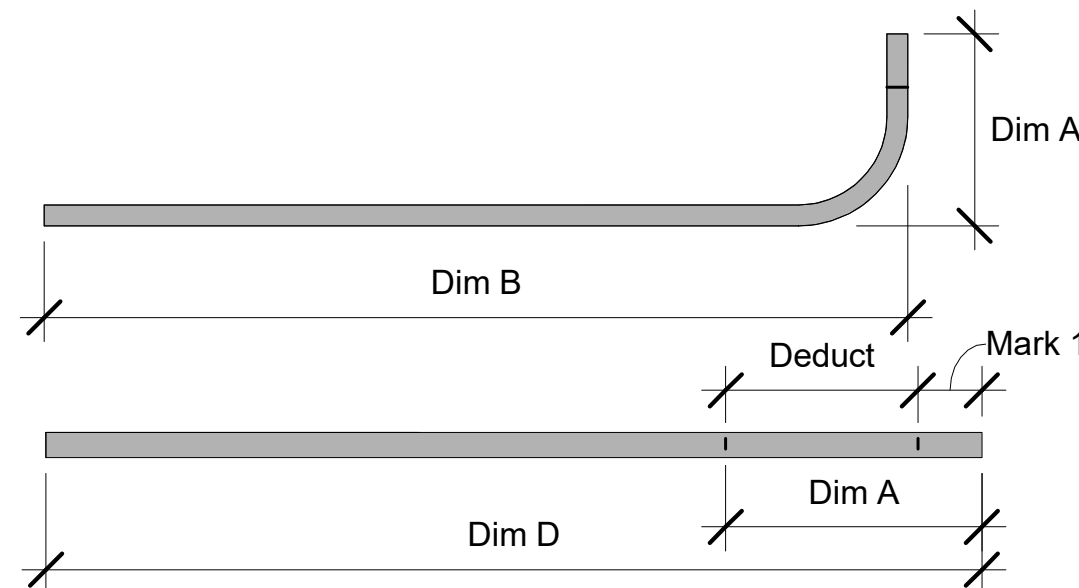
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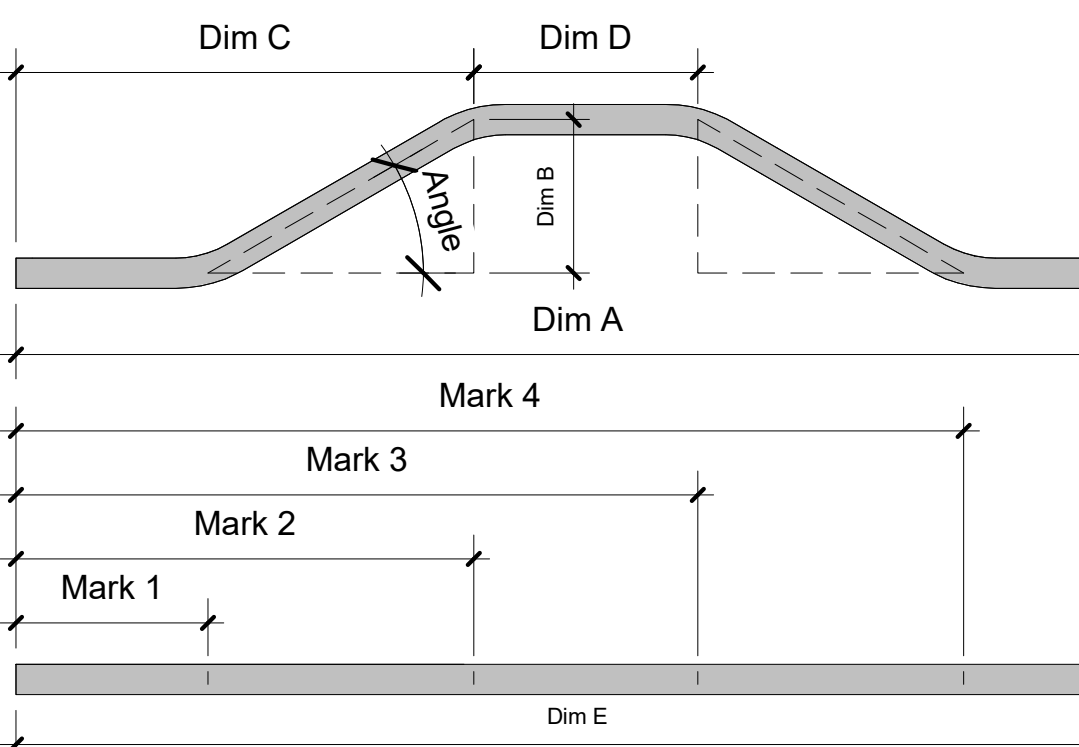
1 3d Ortho



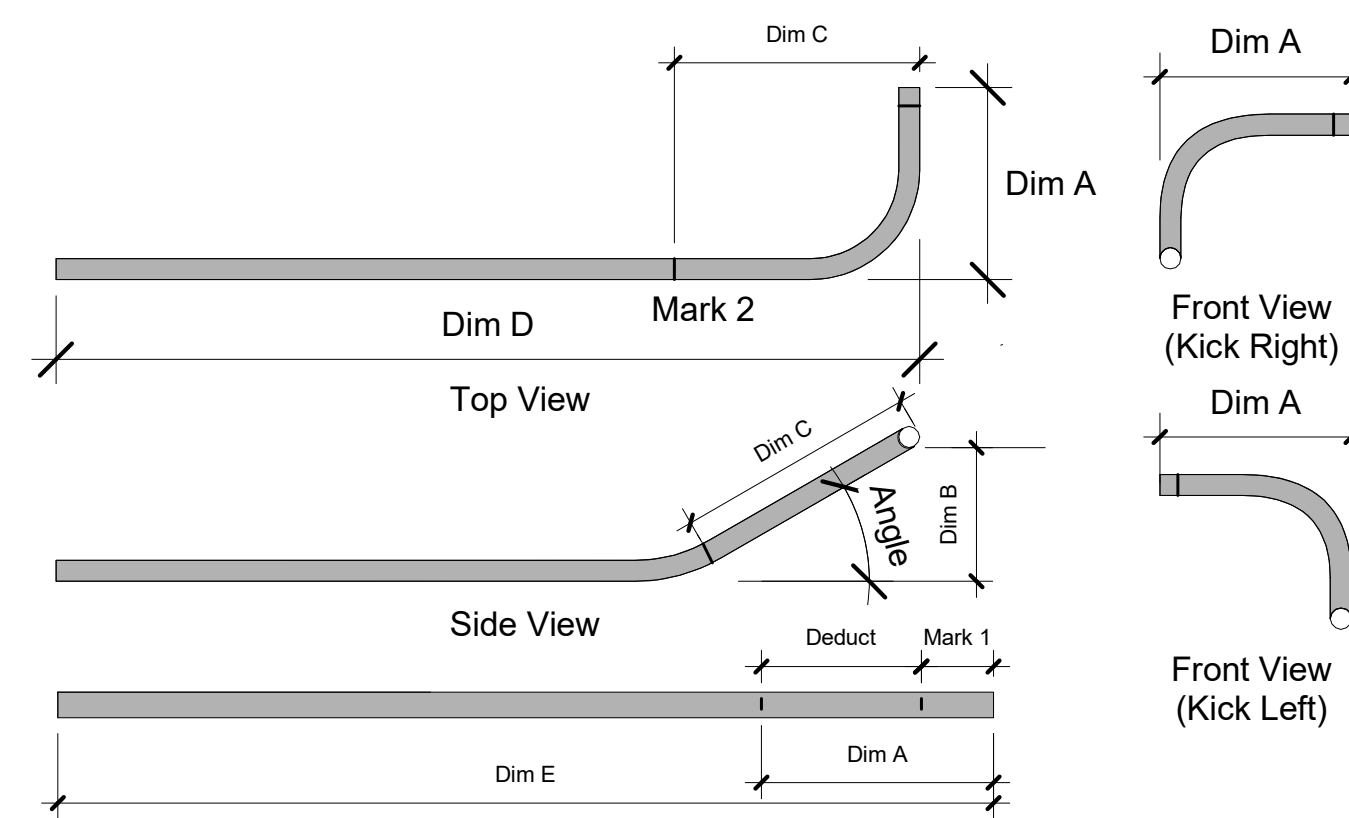
3 Elevation Left  
1 : 30



Conduit Bend - Stub 90  
1/2" = 1'-0"



Conduit Bend - 4 Point Saddle  
1 : 20



Conduit Bend - Kick 90  
1/2" = 1'-0"

| eE_Conduit Bend Stub 90_v11 |       |         |         |         |         |         |
|-----------------------------|-------|---------|---------|---------|---------|---------|
| Label                       | Count | Mark 1  | Deduct  | Dim A   | Dim B   | Dim D   |
| Greenlee 555                |       |         |         |         |         |         |
| 3/4in EMT Conduit           |       |         |         |         |         |         |
| Piece 2                     | 1     | 14 1/8" | 8 7/8"  | 23"     | 61 3/8" | 81 1/8" |
| Piece 4                     | 1     | 14 1/8" | 8 7/8"  | 23"     | 61 3/8" | 81 1/8" |
| Piece 6                     | 1     | 14 1/8" | 8 7/8"  | 23"     | 61 3/8" | 81 1/8" |
| Greenlee 855GX              |       |         |         |         |         |         |
| 1-1/2in EMT Conduit         |       |         |         |         |         |         |
| Piece 10                    | 1     | 11 3/8" | 15 3/8" | 26 3/4" | 69 7/8" | 91 1/4" |
| Piece 11                    | 1     | 0"      | 15 3/8" | 17 1/8" | 50 3/4" | 62 5/8" |
| 2in EMT Conduit             |       |         |         |         |         |         |
| Piece 12                    | 1     | 13 1/4" | 16 7/8" | 30 1/8" | 73 1/4" | 97 3/8" |
| Piece 13                    | 1     | 0"      | 16 7/8" | 17 3/8" | 51 1/4" | 62 3/8" |

| eE_Conduit Bend Kick 90_v11 |       |        |         |        |         |        |       |         |         |         |
|-----------------------------|-------|--------|---------|--------|---------|--------|-------|---------|---------|---------|
| Label                       | Count | Mark 1 | Mark 2  | Deduct | Dim A   | Dim B  | Angle | Dim C   | Dim D   | Dim E   |
| Greenlee 555                |       |        |         |        |         |        |       |         |         |         |
| Kick 90 Left                |       |        |         |        |         |        |       |         |         |         |
| 3/4in EMT Conduit           |       |        |         |        |         |        |       |         |         |         |
| Piece 1                     | 1     | 4"     | 15 5/8" | 8 7/8" | 12 7/8" | 5 3/8" | 30°   | 11 1/4" | 22"     | 33 1/4" |
| Piece 3                     | 1     | 6 1/8" | 17 3/4" | 8 7/8" | 15"     | 5 3/8" | 30°   | 11 1/4" | 24 1/4" | 37 5/8" |
| Piece 5                     | 1     | 8 3/8" | 19 7/8" | 8 7/8" | 17 1/4" | 5 3/8" | 30°   | 11 1/4" | 26 3/8" | 41 7/8" |

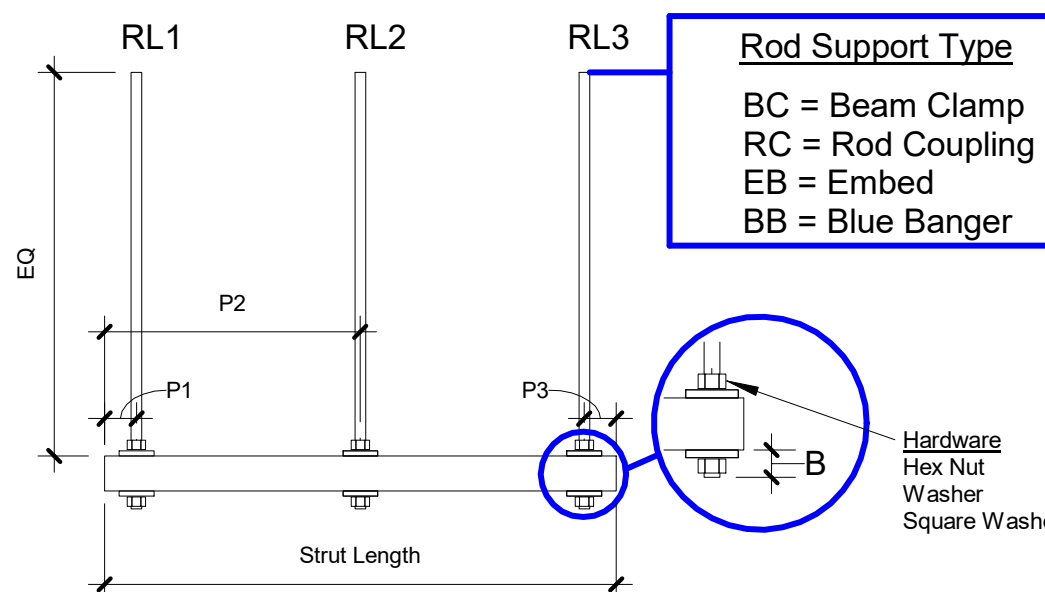
| eE_Conduit Bend 4 Point Saddle_v11 |       |         |         |         |         |          |       |         |         |        |          |
|------------------------------------|-------|---------|---------|---------|---------|----------|-------|---------|---------|--------|----------|
| Label                              | Count | Mark 1  | Mark 2  | Mark 3  | Mark 4  | Dim A    | Dim B | Angle 1 | Dim C   | Dim D  | Dim E    |
| Greenlee 555                       |       |         |         |         |         |          |       |         |         |        |          |
| 3/4in EMT Conduit                  |       |         |         |         |         |          |       |         |         |        |          |
| Piece 7                            | 1     | 34"     | 44"     | 47 5/8" | 57 5/8" | 117 1/4" | 5"    | 30°     | 42 5/8" | 3 5/8" | 119 5/8" |
| Piece 9                            | 1     | 62 1/2" | 72 1/2" | 76 1/8" | 86 1/8" | 117 1/4" | 5"    | 30°     | 42 1/2" | 3 5/8" | 119 5/8" |
| Piece 8                            | 1     | 62 1/2" | 72 1/2" | 76 1/8" | 86 1/8" | 117 1/4" | 5"    | 30°     | 42 1/2" | 3 5/8" | 119 5/8" |

| eE_Trapeze 1 Tier_v6 |           |        |            |        |                  |    |    |     |             |          |          |              |     |    |    |                 |
|----------------------|-----------|--------|------------|--------|------------------|----|----|-----|-------------|----------|----------|--------------|-----|----|----|-----------------|
| Count                | Custom ID | Tier 1 |            |        | Rod Support Type |    |    |     | Rod Lengths |          |          | Rod Position |     |    |    | Mounting Height |
|                      |           | Length | Strut Type | Invert | BC               | RC | EB | BB  | RL1         | RL2      | RL3      | P1           | P2  | P3 | B  |                 |
| 3/8in Hardware       |           |        |            |        |                  |    |    |     |             |          |          |              |     |    |    |                 |
| 1                    | SS.L9-157 | 54"    | 1-5/8      |        |                  |    |    | Yes | 170 5/8"    | 170 5/8" | 170 5/8" | 1"           | 24" | 1" | 1" | 11' - 1"        |
| 1                    | SS.L9-130 | 36"    | 1-5/8      |        |                  |    |    | Yes | 170 5/8"    | 170 5/8" | 170 5/8" | 1"           |     | 1" | 1" | 11' - 1"        |

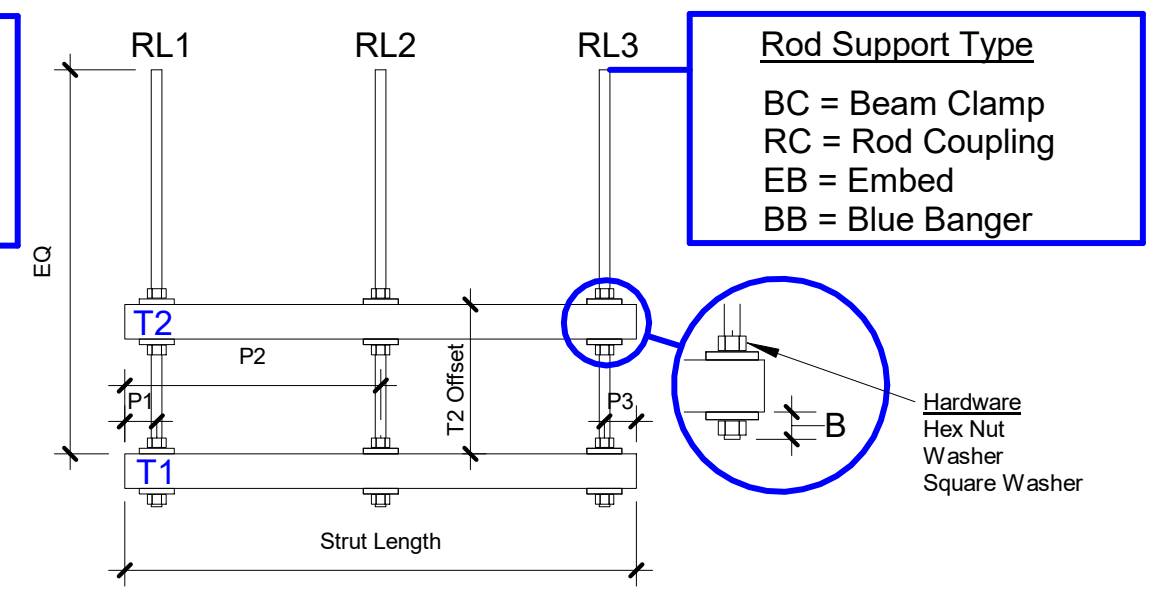
| eE_Trapeze 2 Tier_v6 |           |        |            |        |        |           |            |        |                   |    |    |     |             |         |          |              |    |    |    |                 |
|----------------------|-----------|--------|------------|--------|--------|-----------|------------|--------|-------------------|----|----|-----|-------------|---------|----------|--------------|----|----|----|-----------------|
| Count                | Custom ID | Tier 1 |            |        | Tier 2 |           |            |        | Mounting Hardware |    |    |     | Rod Lengths |         |          | Rod Position |    |    |    | Mounting Height |
|                      |           | Length | Strut Size | Invert | Length | T2 Offset | Strut Size | Invert | BC                | RC | EB | BB  | RL1         | RL2     | RL3      | P1           | P2 | P3 | B  |                 |
| 3/8in Hardware       |           |        |            |        |        |           |            |        |                   |    |    |     |             |         |          |              |    |    |    |                 |
| 1                    | ST.L9-47  | 24"    | 1-5/8      |        | 24"    | 8 3/4"    | 1-5/8      | Yes    |                   |    |    | Yes | 170 5/8"    | 20 3/8" | 170 5/8" | 1"           |    | 1" | 1" | 11' - 1"        |

## Trapeze Numbering SS.LX-XX

- Strut Style Abbreviation  
"SS" - Single Strut  
"DS" - Double Strut  
"ST" - Stacked Strut  
"TST" - Triple Stacked Strut
- Level that Strut belongs to
- Strut Number



Trapeze 1 Tier  
1" = 1'-0"



Trapeze 2 Tier  
1" = 1'-0"

| eE_BOM |           |     |                                            |
|--------|-----------|-----|--------------------------------------------|
| Count  | Length    | UM  | Description                                |
| 16     | 0' - 0"   |     |                                            |
| 2      |           | ASM | 1-Tier Trapeze with Hardware               |
| 1      |           | ASM | 2-Tier Trapeze with Hardware               |
| 5      |           | ASM | 3/8in 1-Tier Threaded Rod Assembly         |
| 2      |           | ASM | 3/8in 2-Tier Threaded Rod Assembly         |
| 2      |           | EA  | 1-1/2in EMT Set Screw Coupling             |
| 2      |           | EA  | 2in EMT Set Screw Coupling                 |
| 6      |           | EA  | 3/4in EMT Set Screw Coupling               |
| 5      |           | EA  | 3/8 Inch Blue Banger Anchor                |
| 2      |           | EA  | 3/8 Inch Blue Banger Anchor                |
| 1      | 9' - 9"   | LF  | 1-1/2in EMT Conduit                        |
| 2      | 12' - 10" | LF  | 1-1/2in EMT Conduit                        |
| 2      | 7' - 6"   | LF  | 1-5/8in 12G Slotted Strut Elect Galvanized |
| 2      | 4' - 0"   | LF  | 1-5/8in 12G Slotted Strut Elect Galvanized |
| 1      | 9' - 9"   | LF  | 2-1/2in EMT Conduit                        |
| 2      | 19' - 7"  | LF  | 2in EMT Conduit                            |
| 2      | 13' - 4"  | LF  | 2in EMT Conduit                            |
| 3      | 30' - 0"  | LF  | 3/4in EMT Conduit                          |
| 3      | 9' - 5"   | LF  | 3/4in EMT Conduit                          |
| 3      | 20' - 3"  | LF  | 3/4in EMT Conduit                          |
| 5      | 67' - 9"  | LF  | 3/8in Threaded Rod Elect Galvanized        |
| 2      | 27' - 1"  | LF  | 3/8in Threaded Rod Elect Galvanized        |

| eE_Conduit Cut List |          |
|---------------------|----------|
| Count               | Length   |
| 1-1/2in EMT Conduit |          |
| 1                   | 62 5/8"  |
| 1                   | 91 1/4"  |
| 1                   | 117 1/4" |
| 2-1/2in EMT Conduit |          |
| 1                   | 117 1/4" |
| 2in EMT Conduit     |          |
| 1                   | 62 3/8"  |
| 1                   | 97 3/8"  |
| 2                   | 117 1/4" |
| 3/4in EMT Conduit   |          |
| 1                   | 33 1/4"  |
| 1                   | 37 5/8"  |
| 1                   | 41 7/8"  |
| 3                   | 81 1/8"  |
| 3                   | 120"     |

ORIGINAL PRINT SIZE = 36x48

KEY PLAN:

JOB NUMBER: 00001  
ISSUED FOR: 5/23/2023 3:12:38 PM  
DATE: 5/23/2023 3:12:38 PM  
DRAWN BY: Author  
CHECKED BY: Checker  
DRAWING SCALE: As indicated  
SHEET TITLE:

SPOOLING DETAILS

DRAWING NUMBER: SP-L9-359



# OVERHEAD FEEDER CONDUIT LAYOUT



201 Spear Street, Suite 1750  
San Francisco, CA 94105

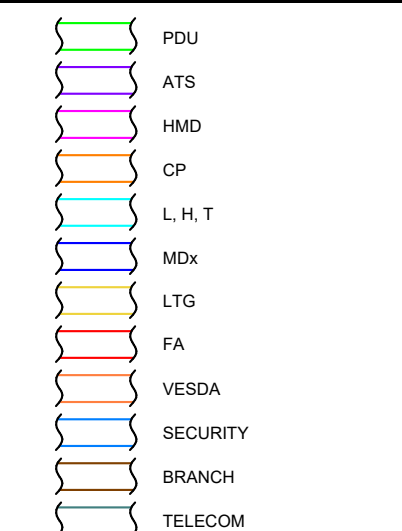
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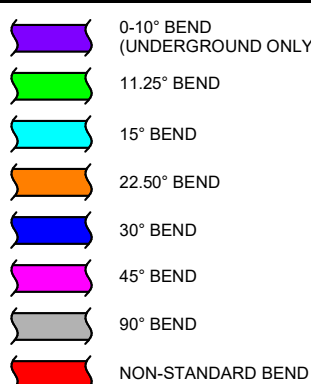
FIELD APPROVAL STAMP:

LEGEND:

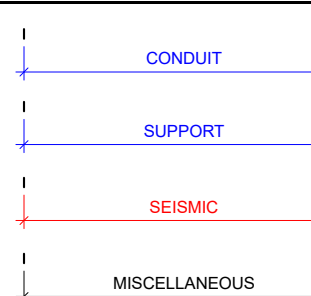
CONDUIT BY LOAD-OVERHEAD



CONDUIT BEND LEGEND



DIMENSION TYPE LEGEND

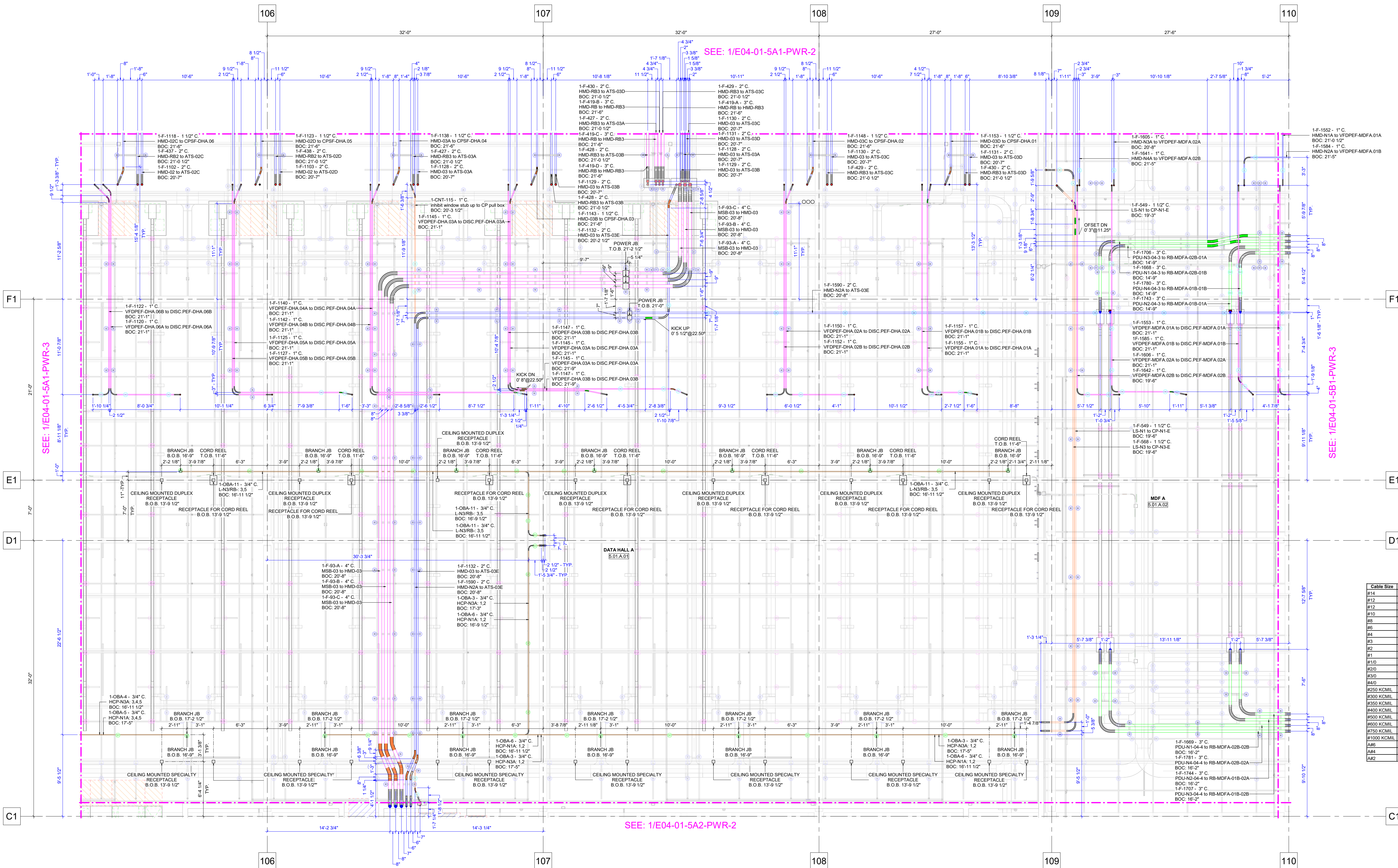


## GENERAL PROJECT NOTES

- BENCHMARK ELEVATION = 953.0
- CABLE TRAY WATERFALL AND TEE'S TO SERVER CABINETS
- SCOPE OF WORK BY OTHERS
- WAP & DAS ANTENNA, CONDUIT AND SUPPORTS PENDING

| Conduit Type | Conduit Size | Total Length |
|--------------|--------------|--------------|
| EMT          | 1 1/4"       | 29.3         |
|              | 2"           | 170.8        |
|              | 2 1/2"       | 2800.5       |
|              | 3"           | 372.3        |
|              | 4"           | 1701.2       |
|              | 5"           | 2040.2       |
| PVC          | 5"           | 15.3         |
| RMC          | 5"           | 378.4        |

| Cable Size  | Cable Description | (PHASE) Cable Length | (GND) Cable Length | Total Length |
|-------------|-------------------|----------------------|--------------------|--------------|
| #14         | THHN CU STR       | 0.0                  | 0.0                | 0.0          |
| #12         | THHN CU STR       | 0.0                  | 0.0                | 0.0          |
| #10         | THHN CU STR       | 0.0                  | 0.0                | 0.0          |
| #8          | THHN CU STR       | 0.0                  | 1525.1             | 1525.1       |
| #6          | THHN CU STR       | 2276.7               | 1660.9             | 3937.6       |
| #4          | THHN CU STR       | 2753.3               | 1291.6             | 4044.9       |
| #3          | THHN CU STR       | 0.0                  | 169.6              | 169.6        |
| #2          | THHN CU STR       | 0.0                  | 15.3               | 15.3         |
| #1          | THHN CU STR       | 6943.7               | 291.9              | 8035.6       |
| #10         | THHN CU STR       | 810.3                | 1787.0             | 2597.3       |
| #20         | THHN CU STR       | 196.0                | 0.0                | 196.0        |
| #30         | THHN CU STR       | 1829.7               | 36.8               | 1866.5       |
| #40         | THHN CU STR       | 52.3                 | 656.8              | 709.1        |
| #250 KCMIL  | THHN CU STR       | 3147.0               | 0.0                | 3147.0       |
| #300 KCMIL  | THHN CU STR       | 0.0                  | 0.0                | 0.0          |
| #350 KCMIL  | THHN CU STR       | 5761.7               | 0.0                | 5761.7       |
| #400 KCMIL  | THHN CU STR       | 0.0                  | 0.0                | 0.0          |
| #500 KCMIL  | THHN CU STR       | 0.0                  | 0.0                | 0.0          |
| #600 KCMIL  | THHN CU STR       | 7973.7               | 0.0                | 7973.7       |
| #750 KCMIL  | THHN CU STR       | 0.0                  | 0.0                | 0.0          |
| #1000 KCMIL | THHN CU STR       | 0.0                  | 0.0                | 0.0          |
| AL8         | ALUMINUM          | 0.0                  | 0.0                | 0.0          |
| AL4         | ALUMINUM          | 0.0                  | 0.0                | 0.0          |
| AL2         | ALUMINUM          | 0.0                  | 0.0                | 0.0          |



1 OH INSTALL-LEVEL 01-AREA 5A1-4-POWER SINGLE LINE AND BRANCH  
1/4" = 1'-0"

ORIGINAL PRINT SIZE = 36x48

KEY PLAN:

JOB NUMBER: 00001

ISSUED FOR:

DATE: 5/23/2023 3:12:38 PM

DRAWN BY: Author CHECKED BY: Checker

DRAWING SCALE: As indicated

SHEET TITLE:

OVERHEAD FEEDER CONDUIT LAYOUT

DRAWING NUMBER: E08-01-01



# OVERHEAD BRANCH CONDUIT LAYOUT



201 Spear Street, Suite 1750  
San Francisco, CA 94105

## GENERAL NOTES

- ALL CONDUITS WITHOUT SIZE TAG ARE 3/4" DIAMETER

| OH BRANCH CONDUITS SCHEDULE - L1 - AREA 1 (CIRCUITING) |           |                     |
|--------------------------------------------------------|-----------|---------------------|
| TAG ID                                                 | FROM      | CIRCUITS            |
| EPB-004                                                | EL1       | 1N,G                |
| NPB-001                                                | LP4B      | 7N, 3/5,G           |
| NPB-002                                                | LP4B      | 1N,19N,17N,21N,G    |
| NPB-003                                                | LP4B      | 13N,9/11,G          |
| NPB-004                                                | LP4B      | 4N,10N,6/8,24N,G    |
| NPB-005                                                | LP4B      | 16N,12/14,G         |
| NPB-006                                                | LP4B      | 2N,28N,15N,G        |
| NPB-007                                                | LP4B      | 29N,27N,25N,23N,G   |
| NPB-008                                                | LP4B      | 37N,33N,31N,35N,G   |
| NPB-014                                                | LP4A      | 67N,59N,55N,57N,G   |
| NPB-015                                                | LP4A      | 61N,63N,65N,G       |
| NPB-016                                                | LP4A      | 71N,47/49,G         |
| NPB-017                                                | LP4A      | 48N,46N,72N,69N,G   |
| NPB-018                                                | LP4A      | 52N,74N,70N,50N,G   |
| NPB-019                                                | LP4A      | 58/60/62/54N,56N,G  |
| NPB-020                                                | LP4A      | 64N,66/68,G         |
| NPB-021                                                | LP4B      | 26N,G               |
| NPB-022                                                | LP4A      | 40N,42/44,76N,78N,G |
| NPB-023                                                | LP4A      | 36N,38N,32/34,8N,G  |
| NPB-024                                                | LP4A      | 24N,26N,28N,30N,G   |
| NPB-026                                                | LP4A      | 6N,73N,14N,G        |
| NPB-027                                                | LP4A      | 22N,20N,18N,G       |
| NPB-082                                                | LP4A      | 75N,16N,4N,G        |
| NPB-083                                                | LP4B      | 18/20,22N,G         |
| NPB-084                                                | LP4A      | 10N,12N,G           |
| NPB-085                                                | HDP       | 1N,2N,G             |
| NPB-086                                                | HDP       | 26N,G               |
| NPB-103                                                | NPCC-338B | 1N,G                |

| BRANCH CONDUIT FITTINGS - L1 - AREA 1 |        |       |
|---------------------------------------|--------|-------|
| SIZE                                  | ANGLE  | COUNT |
| 1"                                    | 30.00° | 11    |
| 1"                                    | 90.00° | 23    |
| 3/4"                                  | 30.00° | 29    |
| 3/4"                                  | 45.00° | 3     |
| 3/4"                                  | 90.00° | 132   |

| JUNCTION BOXES - L1 - AREA 1 |                  |            |             |
|------------------------------|------------------|------------|-------------|
| TAG ID                       | TYPE             | SIZE       | ROD LENGTH  |
| EPCC-430                     | J-BOX HORIZONTAL | 8"x8"x6"   | 13' - 7"    |
| NPCC-303A                    | J-BOX VERTICAL   | 12"x12"x4" | 7' - 7 1/2" |
| NPCC-303B                    | J-BOX VERTICAL   | 8"x8"x4"   | 8' - 1 1/2" |
| NPCC-335A                    | J-BOX VERTICAL   | 8"x8"x4"   | 7' - 1 1/2" |
| NPCC-335B                    | J-BOX VERTICAL   | 12"x12"x4" | 6' - 9 1/2" |
| NPCC-336A                    | J-BOX VERTICAL   | 12"x12"x4" | 7' - 1 1/4" |
| NPCC-336B                    | J-BOX VERTICAL   | 8"x8"x4"   | 7' - 5 3/4" |
| NPCC-337A                    | J-BOX VERTICAL   | 12"x12"x4" | 7' - 9 1/2" |
| NPCC-337B                    | J-BOX VERTICAL   | 8"x8"x4"   | 5' - 9"     |
| NPCC-337C                    | J-BOX VERTICAL   | 8"x8"x4"   | 6' - 8 1/2" |
| NPCC-338A                    | J-BOX VERTICAL   | 8"x8"x4"   | 7' - 7 1/2" |
| NPCC-338B                    | J-BOX VERTICAL   | 8"x8"x4"   | 7' - 7 1/2" |
| NPCC-338C                    | J-BOX VERTICAL   | 8"x8"x4"   | 7' - 7 1/2" |
| NPCC-339                     | J-BOX VERTICAL   | 12"x12"x4" | 7' - 0 1/2" |
| NPCC-343                     | J-BOX VERTICAL   | 12"x12"x4" | 6' - 7"     |
| NPCC-351A                    | J-BOX VERTICAL   | 12"x12"x4" | 7' - 3 1/2" |
| NPCC-351B                    | J-BOX VERTICAL   | 8"x8"x4"   | 7' - 7 1/2" |
| NPCC-401                     | J-BOX HORIZONTAL | 12"x12"x6" | 4' - 2"     |
| NPCC-405B                    | J-BOX HORIZONTAL | 8"x8"x6"   | 4' - 2"     |
| NPCC-405C                    | J-BOX HORIZONTAL | 8"x8"x6"   | 4' - 2"     |

| OH BRANCH CONDUITS SCHEDULE - L1 - AREA 1 |              |            |
|-------------------------------------------|--------------|------------|
| TYPE                                      | CONDUIT SIZE | LENGTH     |
| EMT                                       | 1"           | 1736' - 3" |
| EMT                                       | 3/4"         | 2202' - 6" |

| BRANCH CONDULETS - L1 - AREA 1 |      |       |
|--------------------------------|------|-------|
| TYPE                           | SIZE | COUNT |
| C-CONDULET                     | 1"   | 2     |

| AREA 8 LEVEL B1 TOTAL CONDUIT LENGTH |                |                                                           |
|--------------------------------------|----------------|-----------------------------------------------------------|
| Trade Size                           | Length         | Conduit Type                                              |
| 3/4"                                 | 1388' - 9 1/8" | Allied EG Galv Steel EMT Electrical Metallic Tubing PEXPE |
| 1"                                   | 125' - 6 3/4"  | Allied EG Galv Steel EMT Electrical Metallic Tubing PEXPE |
| 1 1/4"                               | 26' - 11 1/8"  | Allied EG Galv Steel EMT Electrical Metallic Tubing PEXPE |
| 2"                                   | 48' - 6 7/8"   | Allied EG Galv Steel EMT Electrical Metallic Tubing PEXPE |
| 2 1/2"                               | 56' - 7 1/2"   | Allied EG Galv Steel EMT Electrical Metallic Tubing PEXPE |
| 3"                                   | 306' - 0 1/2"  | Allied EG Galv Steel EMT Electrical Metallic Tubing PEXPE |
| 4"                                   | 101' - 6 1/4"  | Allied EG Galv Steel EMT Electrical Metallic Tubing PEXPE |
| 1"                                   | 339' - 11 7/8" | Allied EG Galv Steel GRC Rigid Conduit MPTxMPT            |
| 1 1/2"                               | 55' - 0"       | Allied EG Galv Steel IMC Metal Conduit MPTxMPT            |

| AREA 8 LEVEL B1 CONDUIT CONNECTOR SCHEDULE |                                |        |
|--------------------------------------------|--------------------------------|--------|
| Qty.                                       | Product Description            | Size   |
| 115                                        | Raco EMT Connector KoxSetScrew | 3/4"   |
| 41                                         | Raco EMT Connector KoxSetScrew | 1"     |
| 3                                          | Raco EMT Connector KoxSetScrew | 2"     |
| 3                                          | Raco EMT Connector KoxSetScrew | 2 1/2" |
| 36                                         | Raco EMT Connector KoxSetScrew | 3"     |
| 12                                         | Raco EMT Connector KoxSetScrew | 4"     |

| AREA 8 LEVEL B1 CONDUIT COUPLING SCHEDULE |                 |                                                           |
|-------------------------------------------|-----------------|-----------------------------------------------------------|
| Qty.                                      | Size            | Product Description                                       |
| 1                                         | 1 1/2"x-1 1/2"x | Allied EG Galv Steel EMT Set Screw Cplng SetScrewSetScrew |
| 3                                         | 1 1/4"x-1 1/4"x | Allied EG Galv Steel EMT Set Screw Cplng SetScrewSetScrew |
| 23                                        | 1"x-1"x         | Allied EG Galv Steel EMT Set Screw Cplng SetScrewSetScrew |
| 6                                         | 2 1/2"x-2 1/2"x | Allied EG Galv Steel EMT Set Screw Cplng SetScrewSetScrew |
| 5                                         | 2"x-2"x         | Allied EG Galv Steel EMT Set Screw Cplng SetScrewSetScrew |
| 30                                        | 3"x-3"x         | Allied EG Galv Steel EMT Set Screw Cplng SetScrewSetScrew |
| 196                                       | 3/4"x-3/4"x     | Allied EG Galv Steel EMT Set Screw Cplng SetScrewSetScrew |
| 10                                        | 4"x-4"x         | Allied EG Galv Steel EMT Set Screw Cplng SetScrewSetScrew |
| 6                                         | 1 1/2"x-1 1/2"x | Allied EG Galv Steel IMC Coupling FPTxFPT                 |
| 40                                        | 1"x-1"x         | Allied EG Galv Steel RMC Coupling FPTxFPT                 |
| 1                                         | 1"x-1"x         | C-CONDULET                                                |
| 8                                         | 3/4"x-3/4"x     | C-CONDULET                                                |

| AREA 8 LEVEL B1 J-BOX SCHEDULE |          |          |        |
|--------------------------------|----------|----------|--------|
| Q-ty                           | LENGTH   | WIDTH    | HEIGHT |
| 5                              | 4 11/16" | 4 11/16" | 2 1/8" |
| 13                             | 6"       | 6"       | 4"     |
| 4                              | 8"       | 8"       | 4"     |
| 3                              | 12"      | 12"      | 6"     |
| 2                              | 16"      | 4"       | 4"     |
| 1                              | 24"      | 6"       | 6"     |
| 1                              | 24"      | 16"      | 8"     |
| 1                              | 24"      | 12"      | 12"    |
| 1                              | 30"      | 16"      | 4"     |
| 1                              | 36"      | 24"      | 8"     |

| AREA 8 LEVEL B1 QUANTITY OF TRAPEZE SCHEDULE |                    |      |          |        |
|----------------------------------------------|--------------------|------|----------|--------|
| Product Description                          | STRUT TYPE         | Q-TY | LEVEL    | AREA   |
| SINGLE TIER TRAPEZE                          | 3 1/4 B2B UNISTRUT | 10   | LEVEL B1 | AREA 8 |
| SINGLE TIER TRAPEZE                          | UNISTRUT 1 5/8 UP  | 90   | LEVEL B1 | AREA 8 |

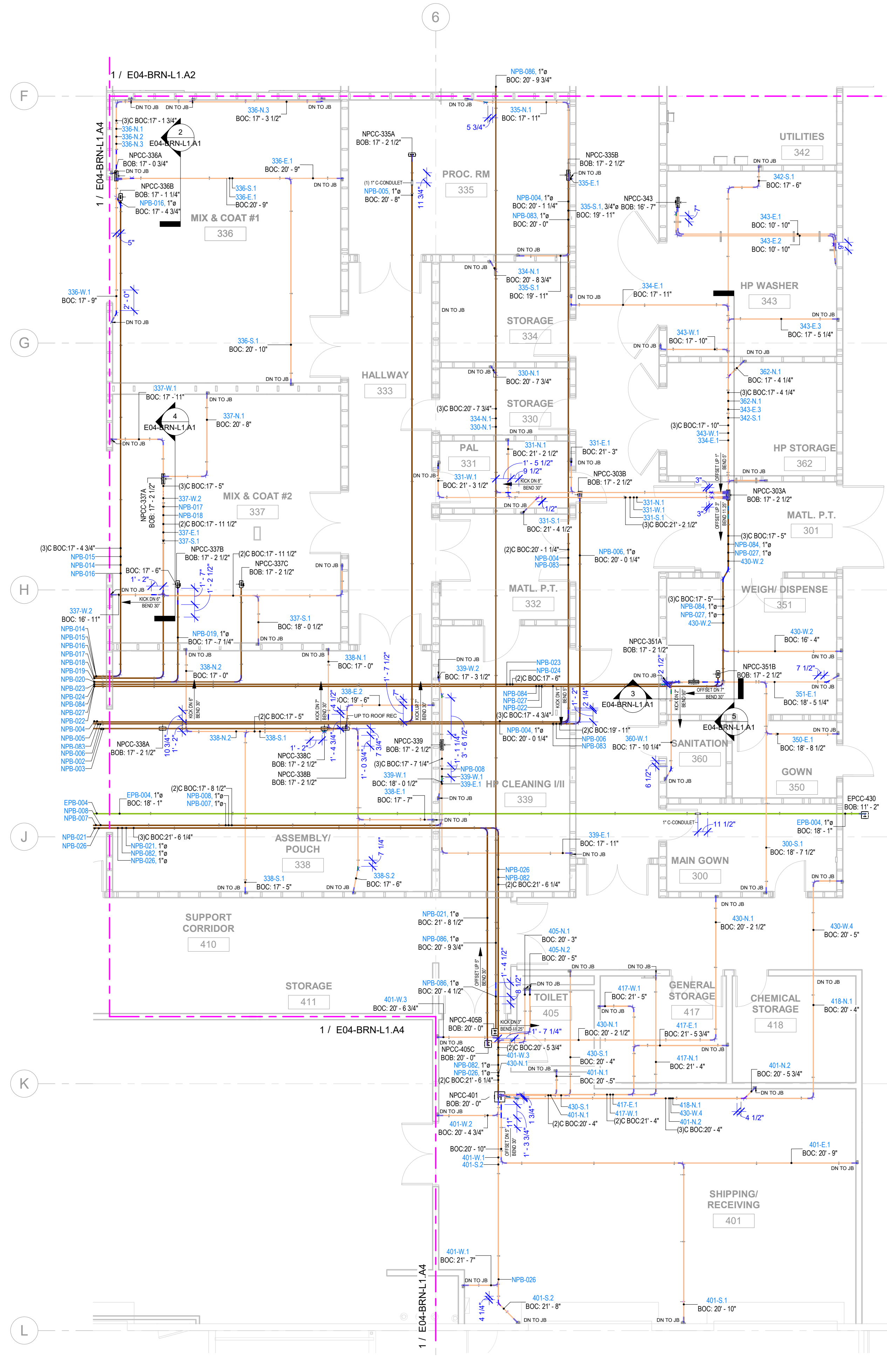
| AREA 8 LEVEL B1 LENGHT OF STRUT SCHEDULE |              |          |        |  |
|------------------------------------------|--------------|----------|--------|--|
| STRUT TYPE                               | STRUT LENGTH | LEVEL    | AREA   |  |
| 3 1/4 B2B UNISTRUT                       | 2' - 0"      | LEVEL B1 | AREA 8 |  |
| UNISTRUT 1 5/8"                          | 115' - 4"    | LEVEL B1 | AREA 8 |  |
| UNISTRUT 7/8"                            | 3' - 6"      | LEVEL B1 | AREA 8 |  |

| AREA 8 LEVEL B1 QUANTITY OF CADDY CLIP SCHEDULE |      |          |        |  |
|-------------------------------------------------|------|----------|--------|--|
| Product Description                             | Q-TY | LEVEL    | AREA   |  |
| Caddy (Erico) Mini Clip with 3/8" Rod           | 78   | LEVEL B1 | AREA 8 |  |

| AREA 8 LEVEL B1 LENGTH OF ROD TRAPEZE SCHEDULE |                  |          |          |        |
|------------------------------------------------|------------------|----------|----------|--------|
| Product Description                            | TOTAL ROD LENGTH | DIAMETER | LEVEL    | AREA   |
| SINGLE TIER TRAPEZE                            | 936' - 8 15/16"  | 3/8"     | LEVEL B1 | AREA 8 |

| AREA 8 LEVEL B1 LENGTH OF ROD CADDY CLIP SCHEDULE |                  |          |          |        |
|---------------------------------------------------|------------------|----------|----------|--------|
| Product Description                               | TOTAL ROD LENGTH | DIAMETER | LEVEL    | AREA   |
| Caddy (Erico) Mini Clip with 3/8" Rod             | 312' - 10 1/2"   | 3/8"     | LEVEL B1 | AREA 8 |

| AREA 8 LEVEL B1 LENGTH OF ROD J-BOX SCHEDULE |                  |          |          |        |
|----------------------------------------------|------------------|----------|----------|--------|
| Product Description                          | TOTAL ROD LENGTH | DIAMETER | LEVEL    | AREA   |
| J-BOX                                        | 238' - 7 3/4"    | 3/8"     | LEVEL B1 | AREA 8 |



OH POWER BRANCH CONDUITS ROUT - LEVEL 1 - AREA 1  
3/16" = 1'-0"

| DATE     | DESCRIPTION             | REVISION |
|----------|-------------------------|----------|
| 05/22/23 | ISSUED FOR CONSTRUCTION | 1        |

BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

## LEGEND:

### CONDUIT COLOR LEGEND BY SYSTEM

- NORMAL POWER FEEDER, BRANCH HOMERUN
- EMERGENCY POWER FEEDER, BRANCH HOMERUN
- UPS POWER FEEDER, BRANCH HOMERUN
- NORMAL POWER BRANCH IN-WALL
- EMERGENCY POWER BRANCH IN-WALL
- UPS POWER BRANCH IN-WALL
- GROUNDING
- NORMAL LIGHTING
- EMERGENCY LIGHTING
- FIRE ALARM

### CONDUIT BEND COLOR LEGEND

- 11.25° BEND
- 22.50° BEND
- 30° BEND
- 45° BEND
- NON-STANDARD BEND

### GRAPHICAL LEGEND

- FRONT OF BOX

ORIGINAL PRINT SIZE = 36x48

KEY PLAN:

JOB NUMBER: 00001  
ISSUED FOR: 5/23/2023 3:12:39 PM  
DATE: 5/23/2023 3:12:39 PM  
DRAWN BY: Author  
CHECKED BY: Checker  
DRAWING SCALE: As indicated  
SHEET TITLE: OVERHEAD BRANCH CONDUIT LAYOUT

DRAWING NUMBER: E08-01-02





All drawings and written material appearing herein constitute original and unpublished work of the

IMMUNIZATION COORDINATOR APPROVAL STAMP:

LEGEND:

-  = NORMAL POWER FEEDER, BRANCH HOMERUN
-  = EMERGENCY POWER FEEDER, BRANCH HOMERUN
-  = UPS POWER FEEDER, BRANCH HOMERUN
-  = NORMAL POWER BRANCH IN-WALL
-  = EMERGENCY POWER BRANCH IN-WALL
-  = UPS POWER BRANCH IN-WALL
-  = GROUNDING
-  = NORMAL LIGHTING
-  = EMERGENCY LIGHTING
-  = FIRE ALARM

 = 11.25° BEND  
 = 22.50° BEND  
 = 30° BEND  
 = 45° BEND  
 = NON-STANDART BEND



9 AXONOMETRIC VIEW - AREA 3 - LEVEL 1

ORIGINAL PRINT SIZE = 36x48

### Y PLAN:

|           |       |
|-----------|-------|
| B NUMBER: | 00001 |
|-----------|-------|

TE: 5/23/2023 3:12:39 PM

|                |              |         |
|----------------|--------------|---------|
| AWN BY: Author | CHECKED BY:  | Checker |
| AWING SCALE:   | As indicated |         |

HEET TITLE: \_\_\_\_\_

## OVERHEAD BRANCH CONDUIT SECTIONS

AWING NUMBER: E08-01-03



# OVERHEAD FA CONDUIT LAYOUT



201 Spear Street, Suite 1750  
San Francisco, CA 94105

| DATE     | REVISION | DESCRIPTION             |
|----------|----------|-------------------------|
| 05/22/23 | 1        | ISSUED FOR CONSTRUCTION |

BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

## LEGEND:

### CONDUIT COLOR LEGEND BY SYSTEM

- NORMAL POWER FEEDER, BRANCH HOMERUN
- EMERGENCY POWER FEEDER, BRANCH HOMERUN
- UPS POWER FEEDER, BRANCH HOMERUN
- NORMAL POWER BRANCH IN-WALL
- EMERGENCY POWER BRANCH IN-WALL
- UPS POWER BRANCH IN-WALL
- INTERLOCK DOOR SYSTEM
- GROUNDING
- NORMAL LIGHTING
- EMERGENCY LIGHTING
- FIRE ALARM

### CONDUIT BEND COLOR LEGEND

- = 11.25° BEND
- = 22.50° BEND
- = 30° BEND
- = 45° BEND
- = NON-STANDARD BEND

### GENERAL NOTES

- ALL CONDUITS WITHOUT SIZE TAG ARE 3/4" SIZE
- ALL CONDUITS WITHOUT ELEVATION TAG LOCATE ON 10' 10"
- SIZE OF ALL BOXES FOR FIRE ALARM DEVICES ARE 4"x4"x2 1/8"

### GRAPHICAL LEGEND

- DUCT SMOKE DETECTOR
- SMOKE DETECTOR
- CEILING MOUND STROBE
- SPEAKER STROBE
- SECTION NUMBER

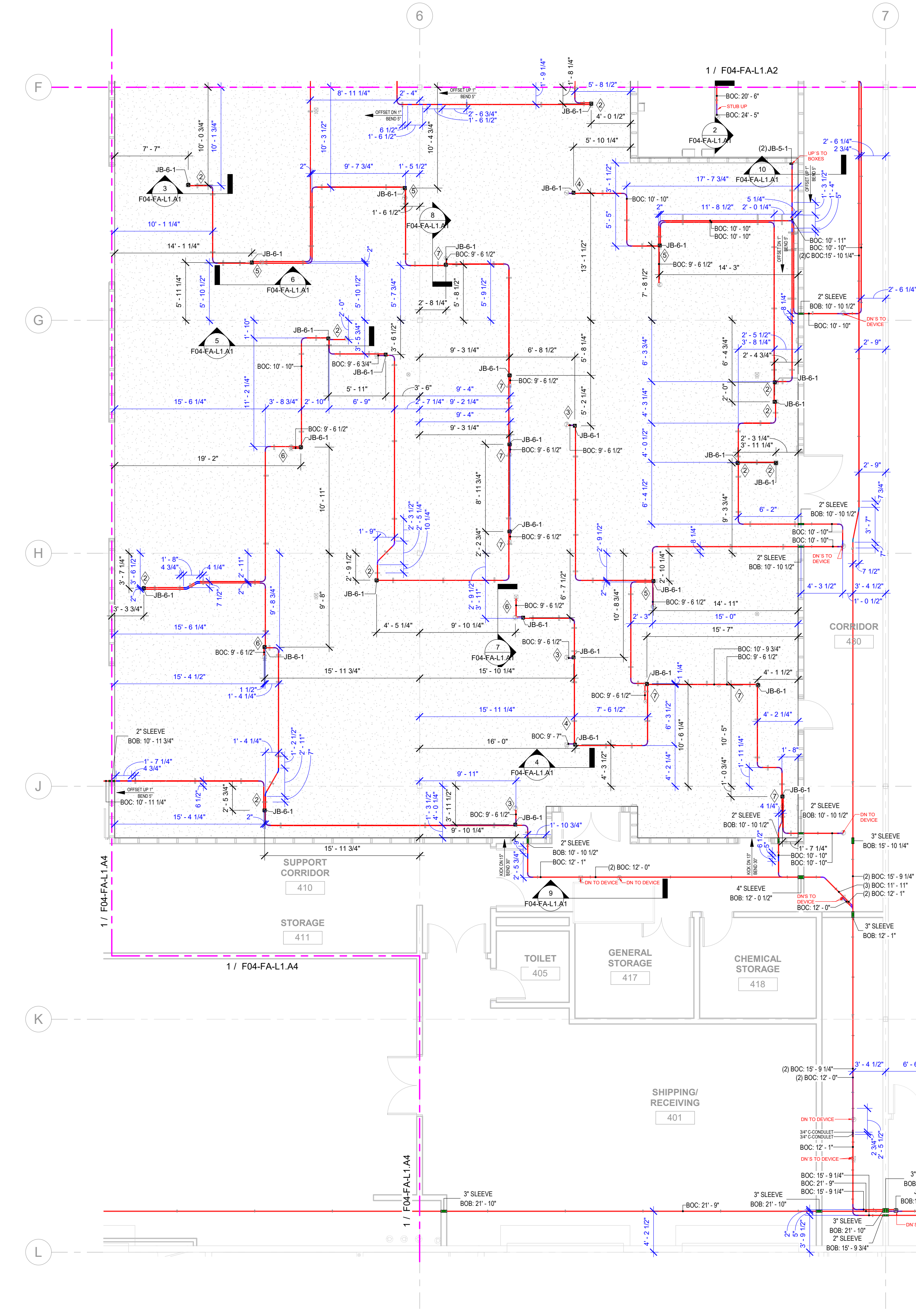
ORIGINAL PRINT SIZE = 36x48

KEY PLAN:

JOB NUMBER: 00001  
ISSUED FOR: 5/23/2023 3:12:39 PM  
DATE: 5/23/2023 3:12:39 PM  
DRAWN BY: Author  
CHECKED BY: Checker  
DRAWING SCALE: As indicated  
SHEET TITLE:

OVERHEAD FA CONDUIT LAYOUT

DRAWING NUMBER: E08-01-04



1 OH FIRE ALARM CONDUITS ROUT - LEVEL 1 - AREA 1  
3/16" = 1'-0"

### TAGS DESCRIPTION

- JUNCTION BOX
- 1 - BEAM CLAMP ATTACHMENT (BC)
- 2 - ROOF ATTACHMENT (R)
- 3 - STRUT ATTACHMENT (SA)
- 4 - WOOD BEAM ATTACHMENT (WB)
- 5 - WALL ATTACHMENT (WA)
- 6 - FLOOR ATTACHMENT (FA)
- 7 - IN WALL ATTACHMENT (IWA)

INDEX NUMBER

JB-X-X BOX

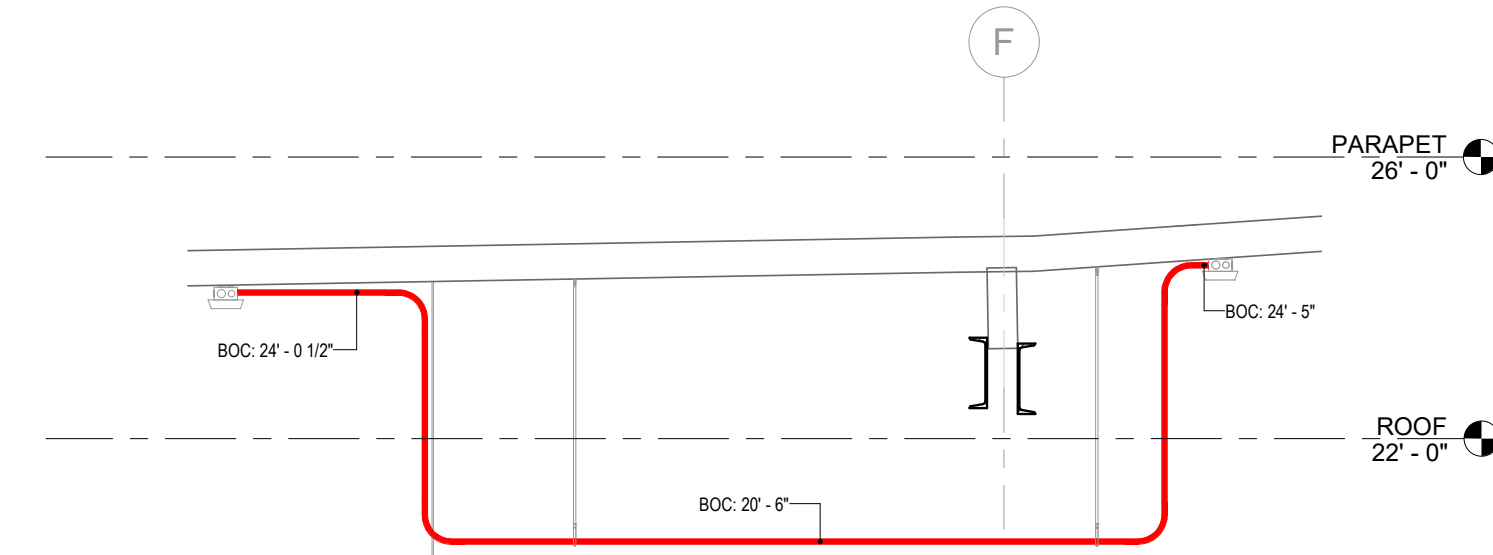
BOTTOM OF BOXES

### FIRE ALARM - JUNCTION BOXES - L1 - AREA 1

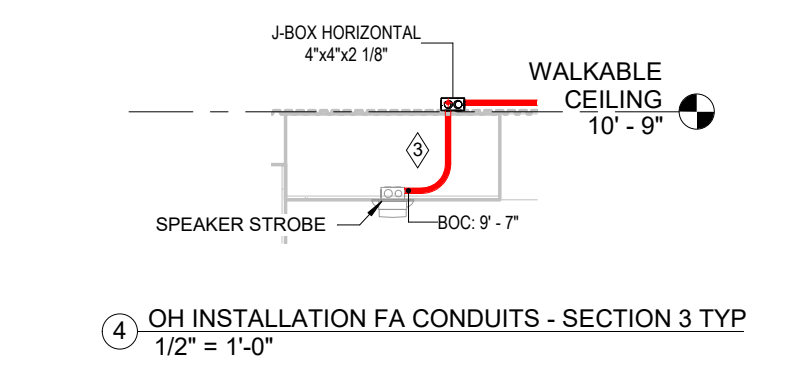
| RACK ID TAG | TYPE             | SIZE                     | COUNT |
|-------------|------------------|--------------------------|-------|
| JB-2-61     | J-BOX HORIZONTAL | 4 11/16"x4 11/16"x2 1/8" | 1     |
| JB-5-1      | IN WALL BOXES    | 4"x4"x2 1/8"             | 2     |
| JB-5-15     | IN WALL BOXES    | 4 11/16"x4 11/16"x2 1/8" | 2     |
| JB-6-1      | J-BOX HORIZONTAL | 4"x4"x2 1/8"             | 30    |
| JB-7-1      | IN WALL BOXES    | 4"x4"x2 1/8"             | 2     |

### SUPPORTS SCHEDULE - FIRE ALARM - AREA 1 - JUNCTION BOXES

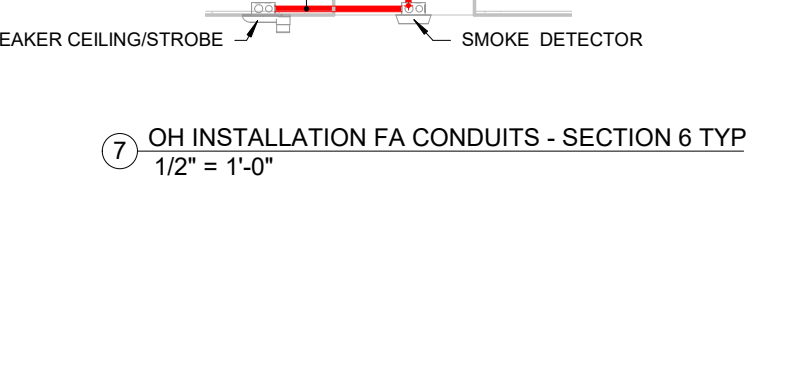
| RACK ID TAG | TYPE MARK                | LENGTH OF ROD | ROD DIAMETER | SUPPORT ATTACHMENT TYPE | COUNT |
|-------------|--------------------------|---------------|--------------|-------------------------|-------|
| JB-2-61     | 4 11/16"x4 11/16"x2 1/8" | 8' - 3"       | 0' - 0 3/8"  | R                       | 1     |



2 OH INSTALLATION FA CONDUITS - SECTION 9  
1/2" = 1'-0"



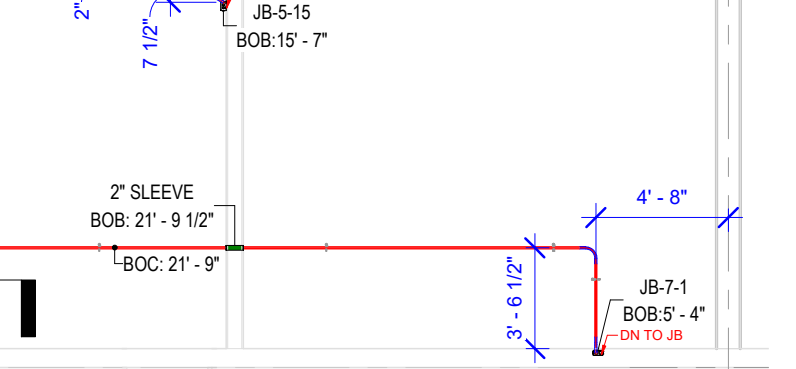
4 OH INSTALLATION FA CONDUITS - SECTION 3 TYP  
1/2" = 1'-0"



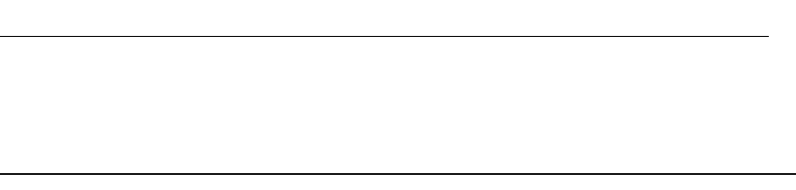
7 OH INSTALLATION FA CONDUITS - SECTION 6 TYP  
1/2" = 1'-0"



8 OH INSTALLATION FA CONDUITS - SECTION 7 TYP  
1/2" = 1'-0"



9 OH INSTALLATION FA CONDUITS - SECTION 8  
1/2" = 1'-0"



10 OH INSTALLATION FA CONDUITS - SECTION 10  
1/4" = 1'-0"



11 OH INSTALLATION FA CONDUITS - SECTION 11  
1/4" = 1'-0"

### FIRE ALARM CONDUIT FITTINGS - L1 - AREA 1

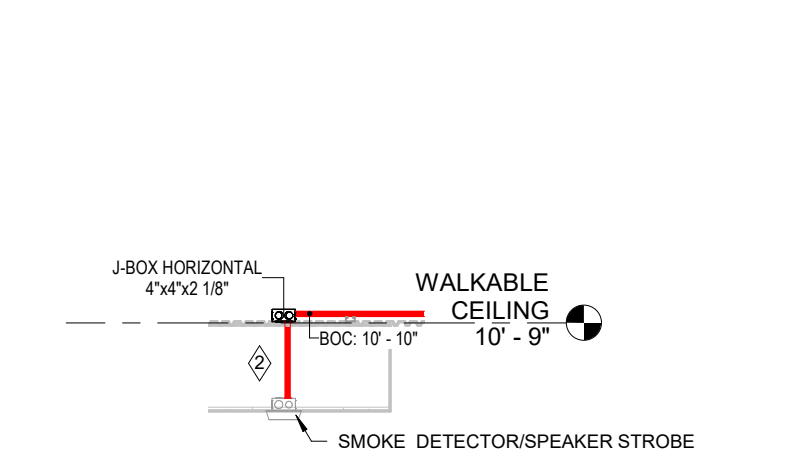
| SIZE | ANGLE  | COUNT |
|------|--------|-------|
| 3/4" | 22.50° | 2     |
| 3/4" | 30.00° | 9     |
| 3/4" | 45.00° | 7     |
| 3/4" | 90.00° | 85    |

### OH FIRE ALARM CONDUITS SCHEDULE W/O FITTINGS - L1 - AREA 1

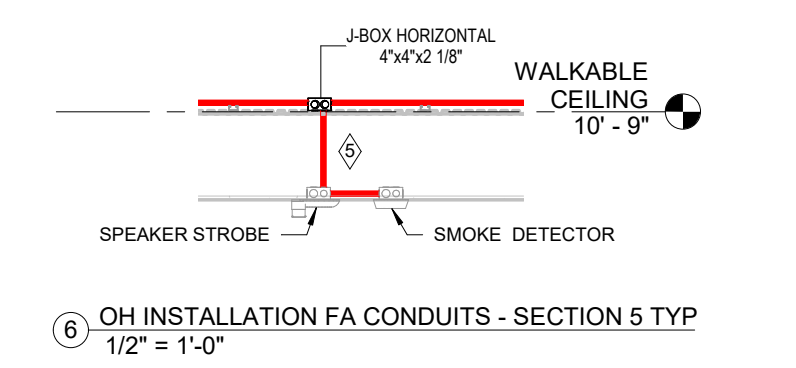
| TYPE | CONDUIT SIZE | LENGTH     |
|------|--------------|------------|
| EMT  | 3/4"         | 1355' - 8" |

### FIRE ALARM CONDULETS - L1 - AREA 1

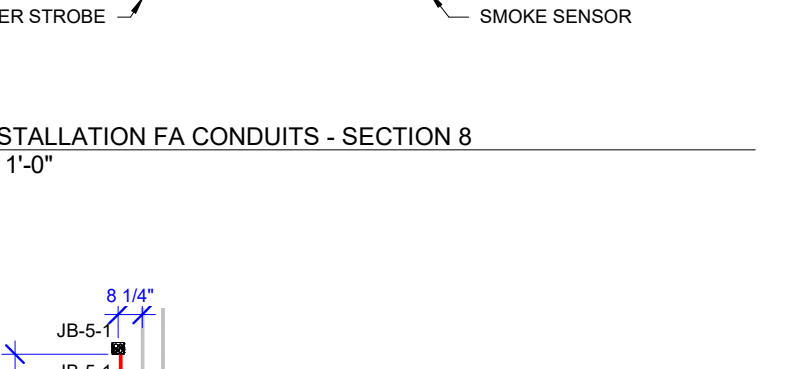
| TYPE       | SIZE | COUNT |
|------------|------|-------|
| C-CONDULET | 3/4" | 2     |



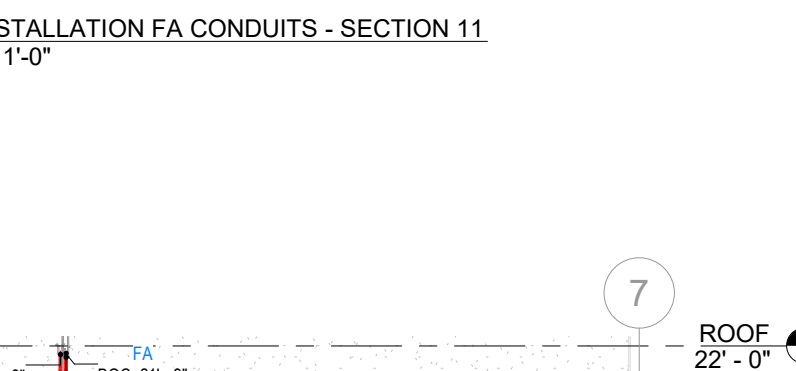
3 OH INSTALLATION FA CONDUITS - SECTION 2 TYP  
1/2" = 1'-0"



5 OH INSTALLATION FA CONDUITS - SECTION 4 TYP  
1/2" = 1'-0"



6 OH INSTALLATION FA CONDUITS - SECTION 5 TYP  
1/2" = 1'-0"



10 OH INSTALLATION FA CONDUITS - SECTION 11  
1/4" = 1'-0"



[illegible]

-  = NORMAL POWER / LOW VOLTAGE 120/208
-  = NORMAL POWER / HIGH VOLTAGE 277/480
-  = TELECOM / DATA / SEC/ LV.



From Table 3, allowable area for a 9" tray = 10.5 sq.in  
Height of allowable envelope is  $10.5 \text{ sq in} / 9 \text{ in} = 1.167 \text{ in}$   
approx 1.2 in

DRAWING NUMBER: T04-01-01



# CABLE TRAY SECTIONS



201 Spear Street, Suite 1750  
San Francisco, CA 94105

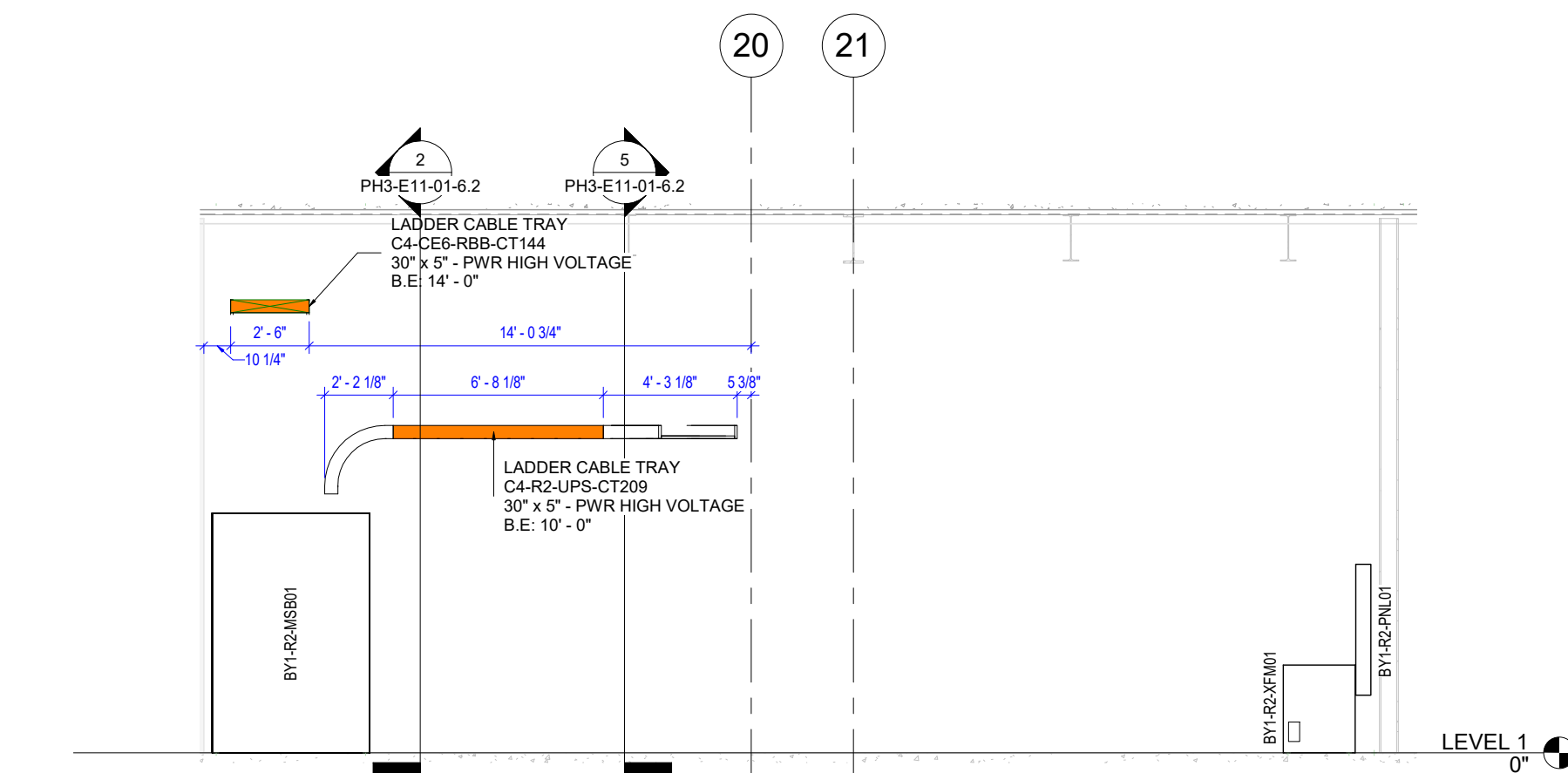
| DATE                    | 05/22/23 |
|-------------------------|----------|
| REVISION                |          |
| DESCRIPTION             |          |
| ISSUED FOR CONSTRUCTION |          |
| 1                       |          |

BIM COORDINATOR APPROVAL STAMP:

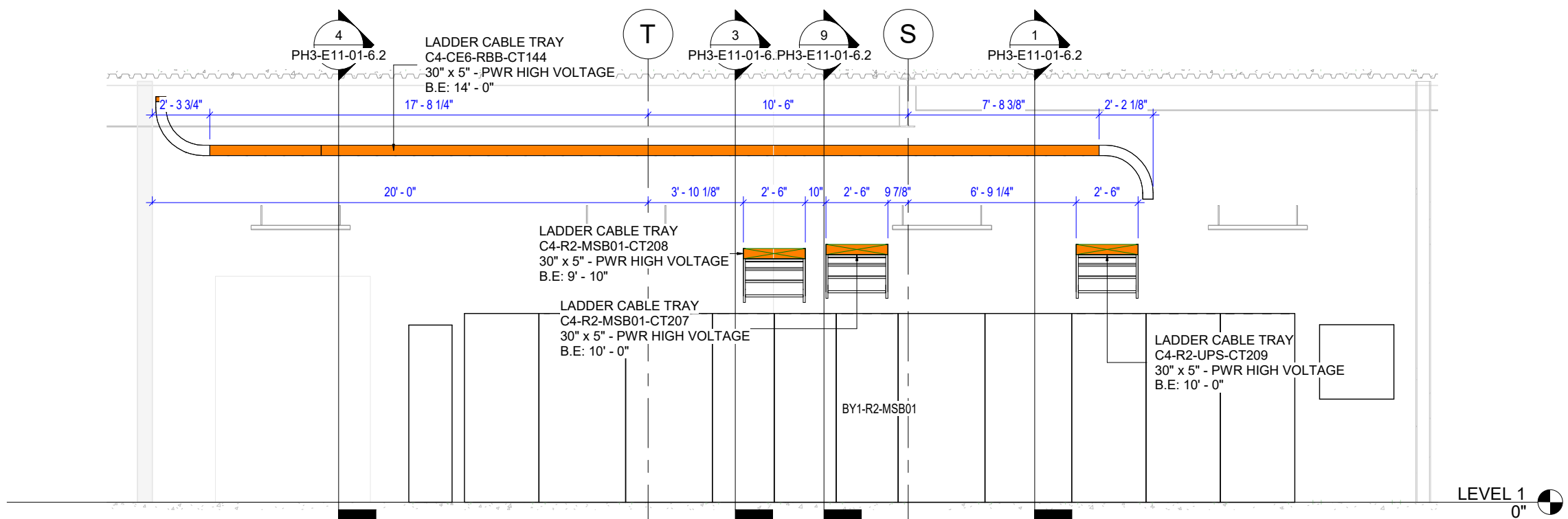
FIELD APPROVAL STAMP:

LEGEND:  
CABLE TRAY COLOR LEGEND  
BY SYSTEM

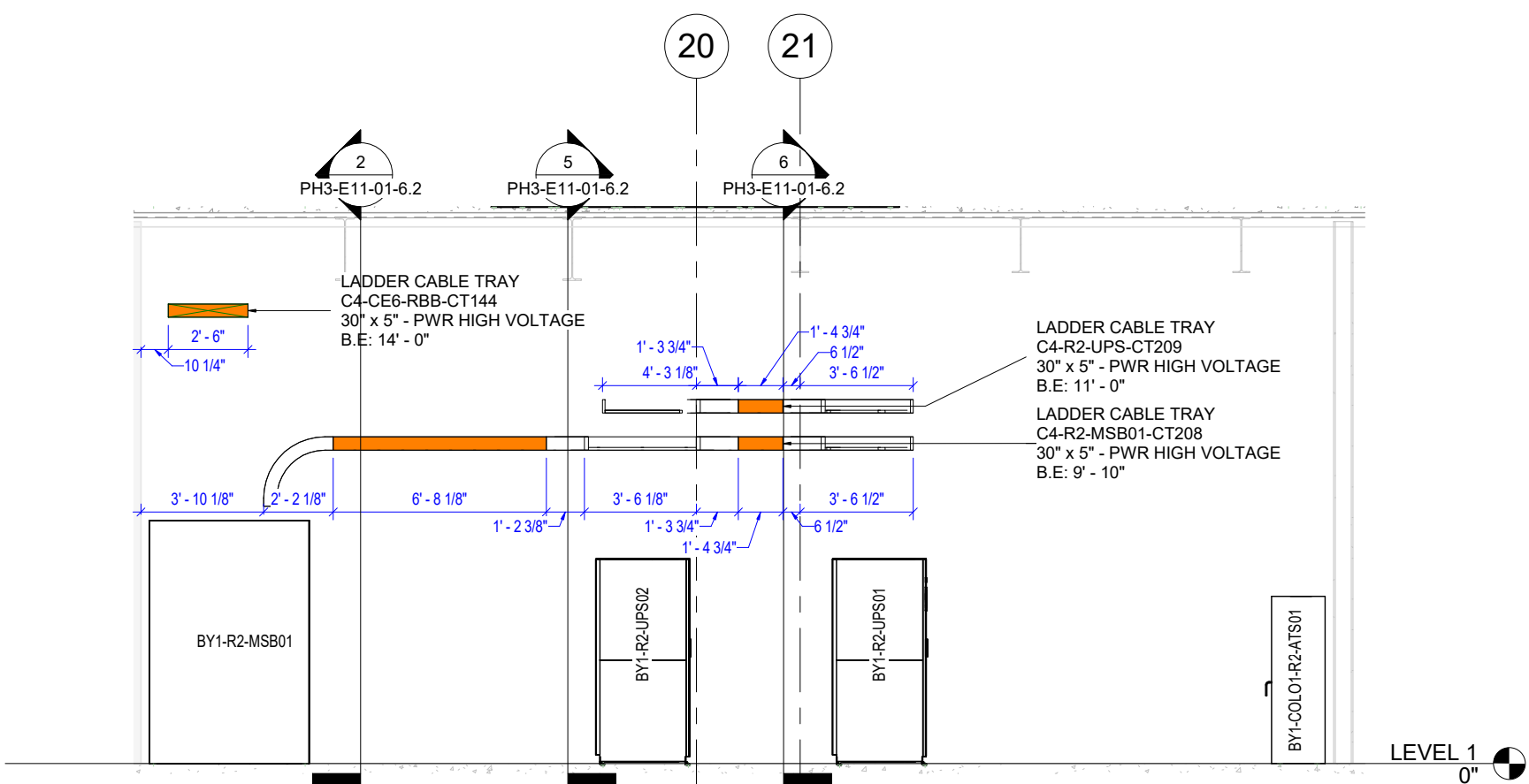
■ = NORMAL POWER / LOW VOLTAGE 120/208  
■ = NORMAL POWER / HIGH VOLTAGE 277/480  
■ = TELECOM / DATA / SEC LV



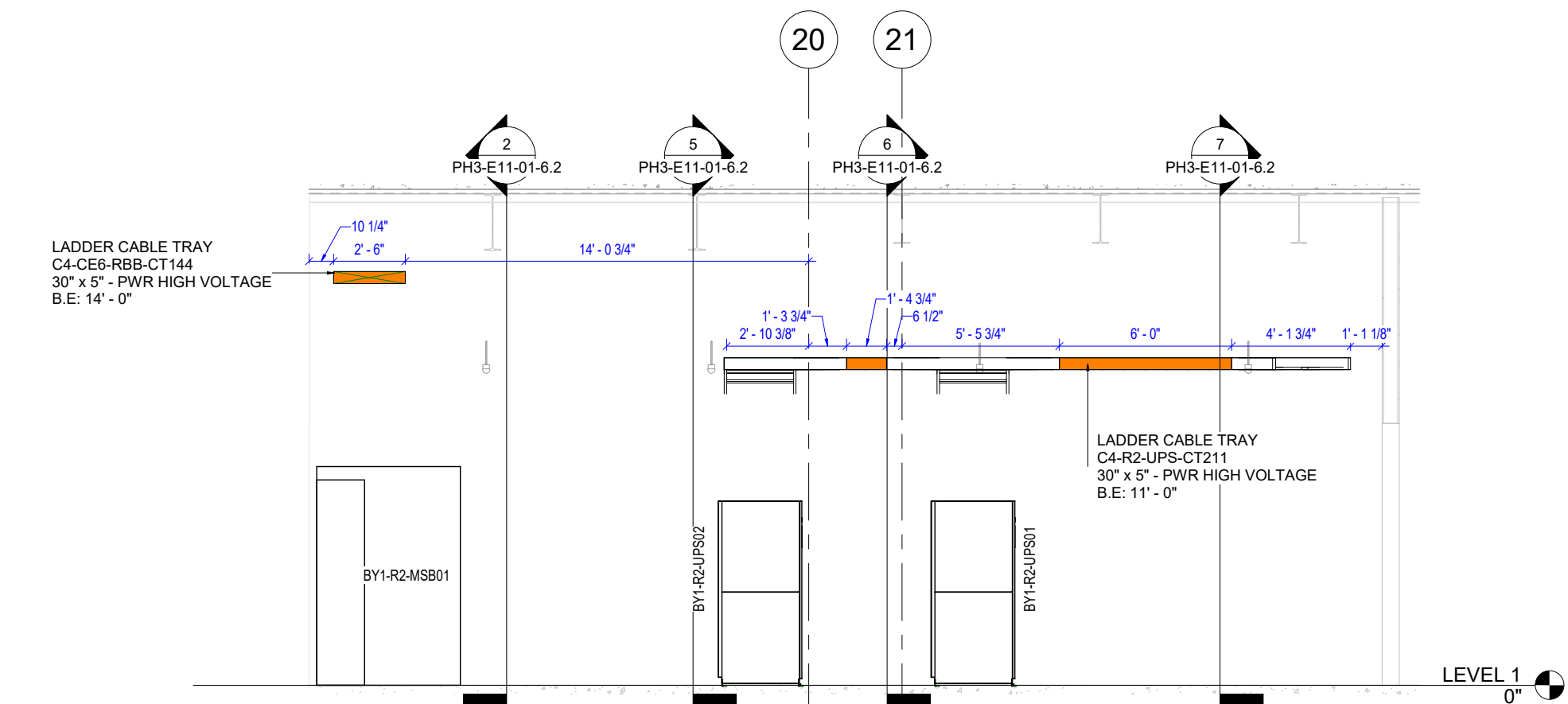
1 CABLE TRAY - PHASE 3 - COLO 3 - L01 - ROOM R2 - SECTION 01  
1/4" = 1'-0"



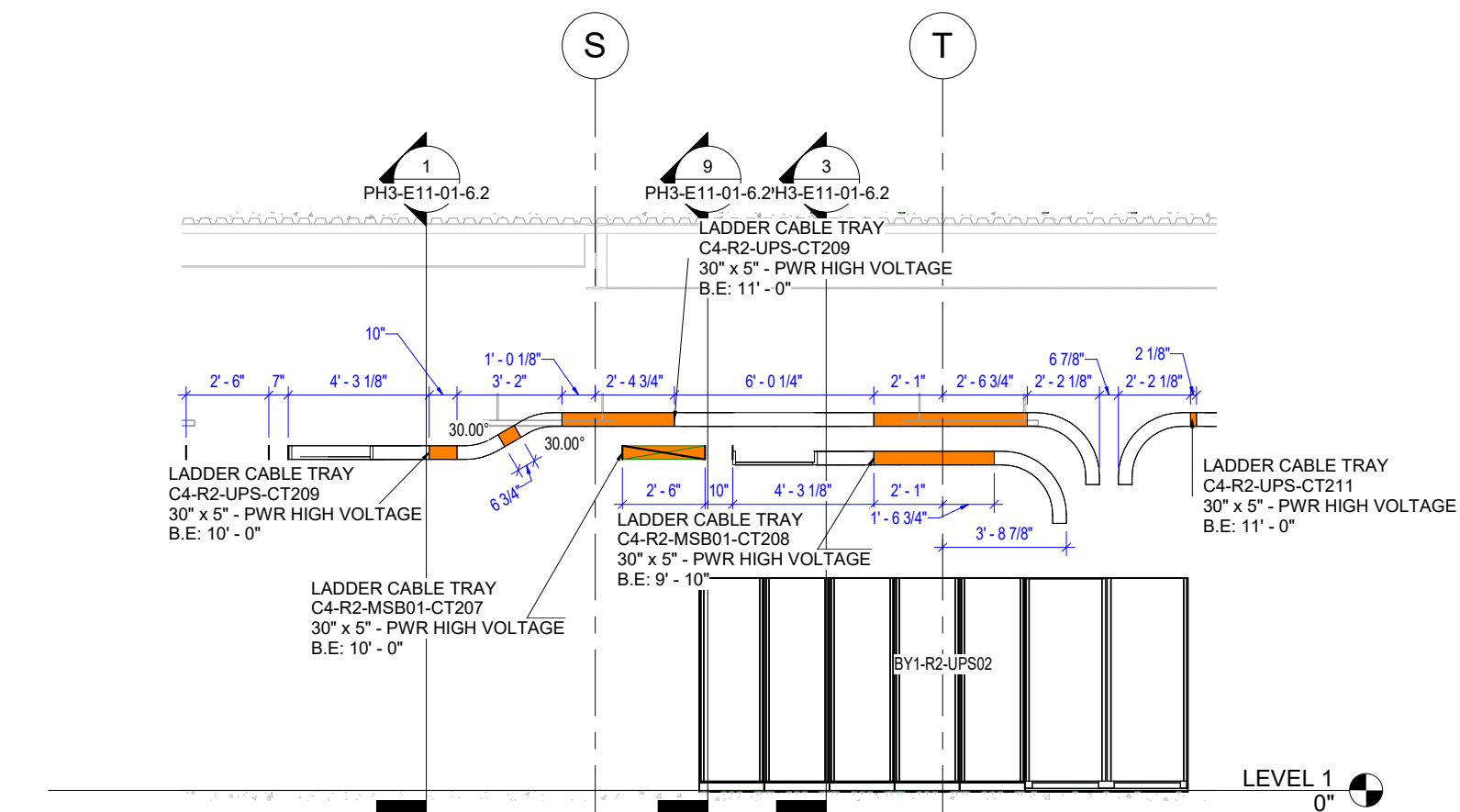
2 CABLE TRAY - PHASE 3 - COLO 3 - L01 - ROOM R2 - SECTION 02  
1/4" = 1'-0"



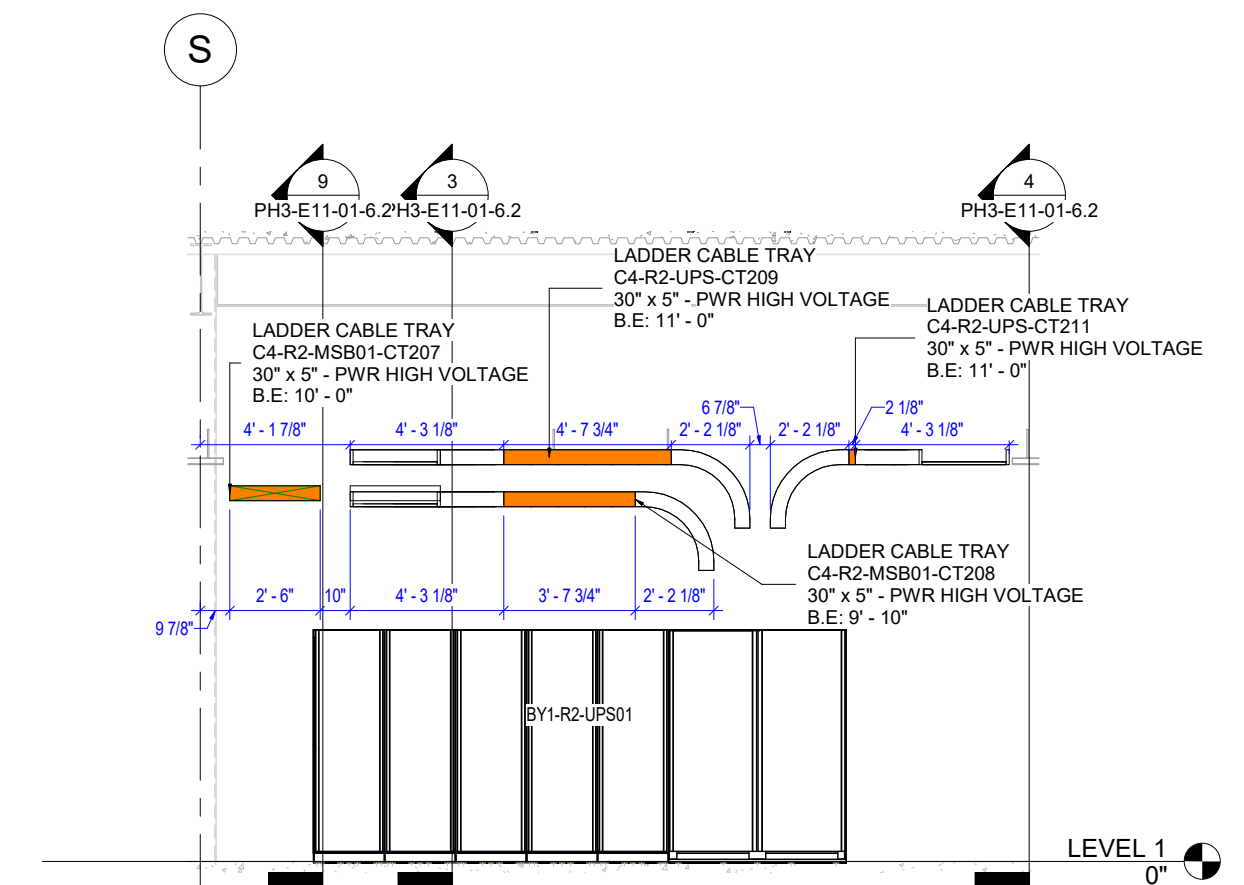
3 CABLE TRAY - PHASE 3 - COLO 3 - L01 - ROOM R2 - SECTION 03  
1/4" = 1'-0"



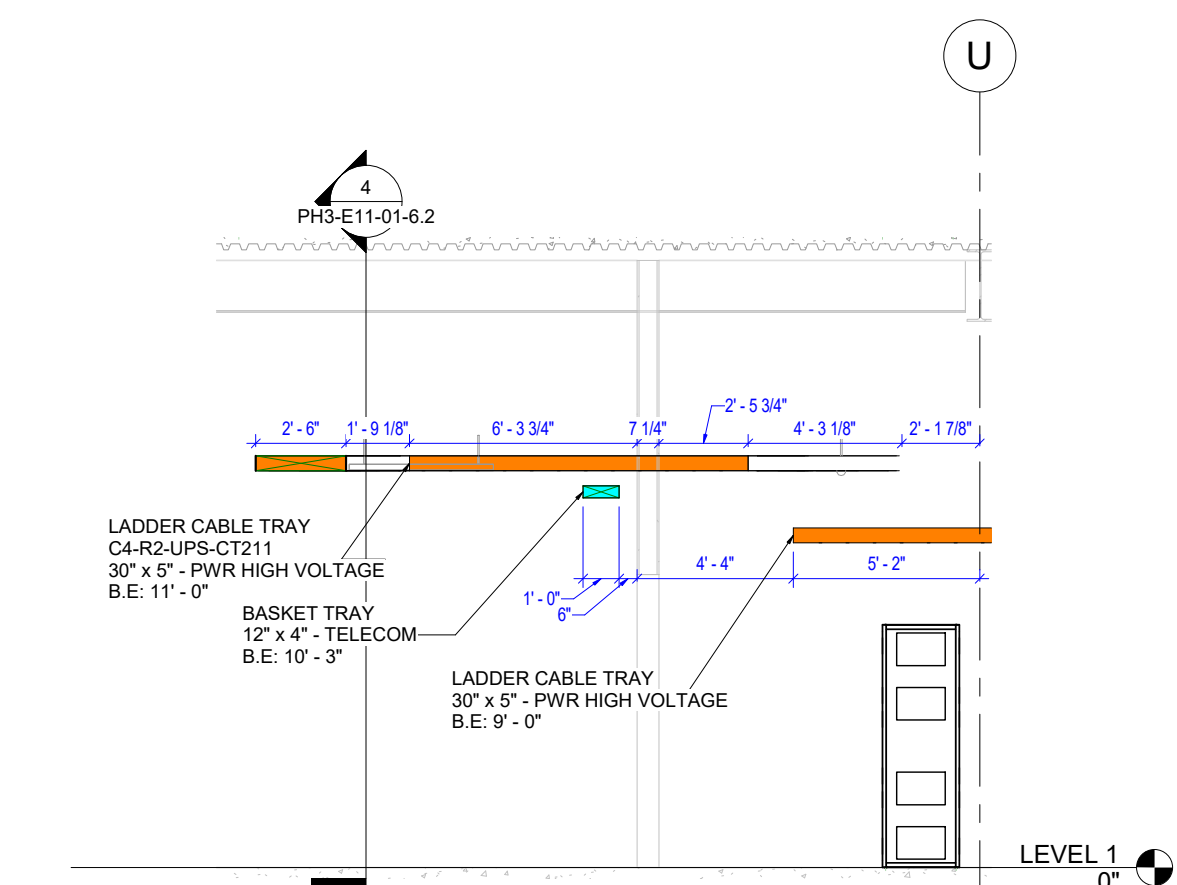
4 CABLE TRAY - PHASE 3 - COLO 3 - L01 - ROOM R2 - SECTION 04  
1/4" = 1'-0"



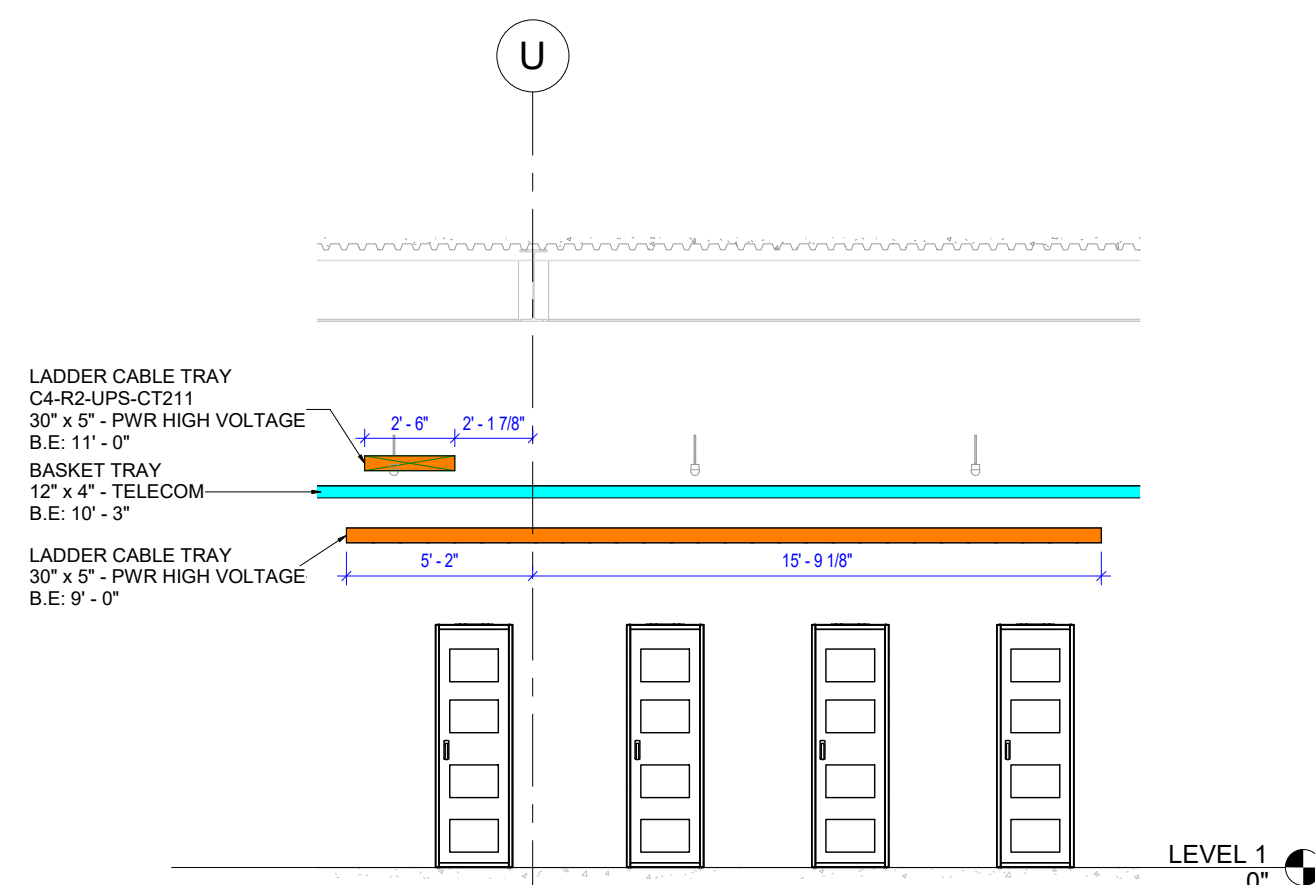
5 CABLE TRAY - PHASE 3 - COLO 3 - L01 - ROOM R2 - SECTION 05  
1/4" = 1'-0"



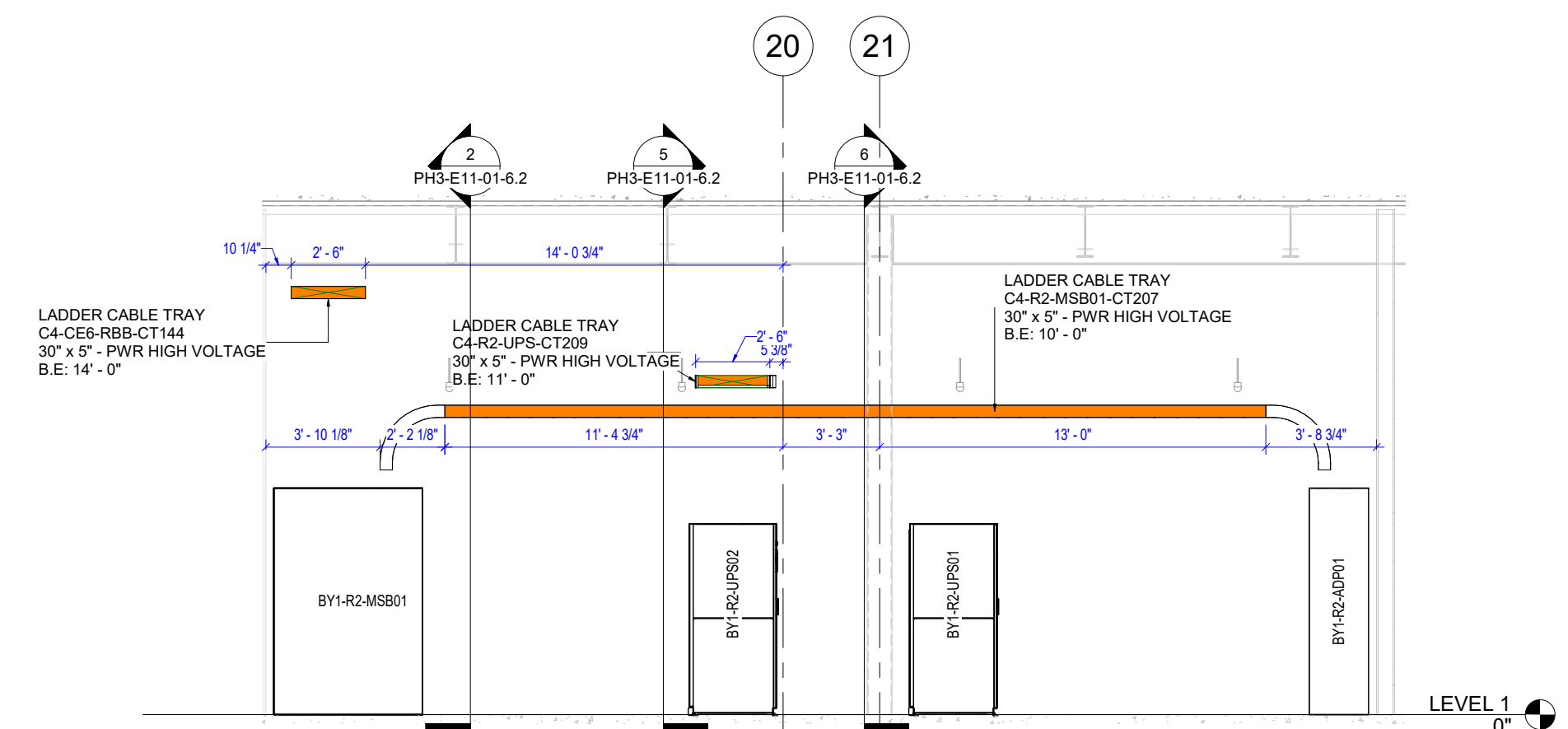
6 CABLE TRAY - PHASE 3 - COLO 3 - L01 - ROOM R2 - SECTION 06  
1/4" = 1'-0"



7 CABLE TRAY - PHASE 3 - COLO 3 - L01 - ROOM R2 - SECTION 07  
1/4" = 1'-0"



8 CABLE TRAY - PHASE 3 - COLO 3 - L01 - ROOM R2 - SECTION 08  
1/4" = 1'-0"



9 CABLE TRAY - PHASE 3 - COLO 3 - L01 - ROOM R2 - SECTION 09  
1/4" = 1'-0"

ORIGINAL PRINT SIZE = 36x48

KEY PLAN:

JOB NUMBER: 00001  
ISSUED FOR:  
DATE: 5/23/2023 3:12:38 PM  
DRAWN BY: Author  
CHECKED BY: Checker  
DRAWING SCALE: As indicated  
SHEET TITLE:

CABLE TRAY SECTIONS

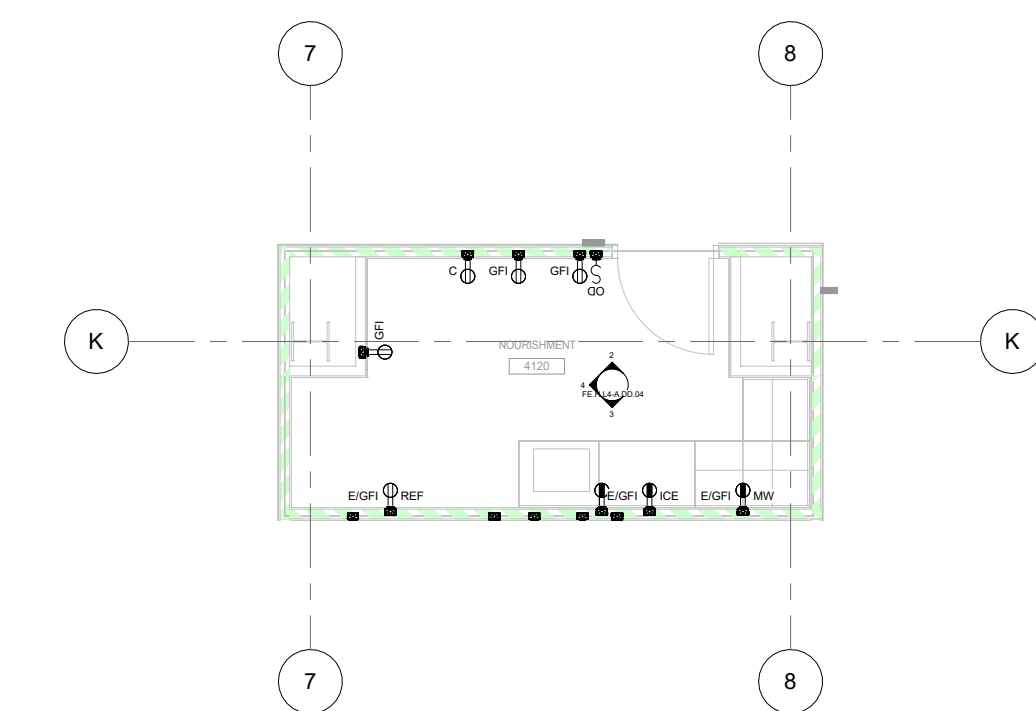
DRAWING NUMBER: T04-01-02



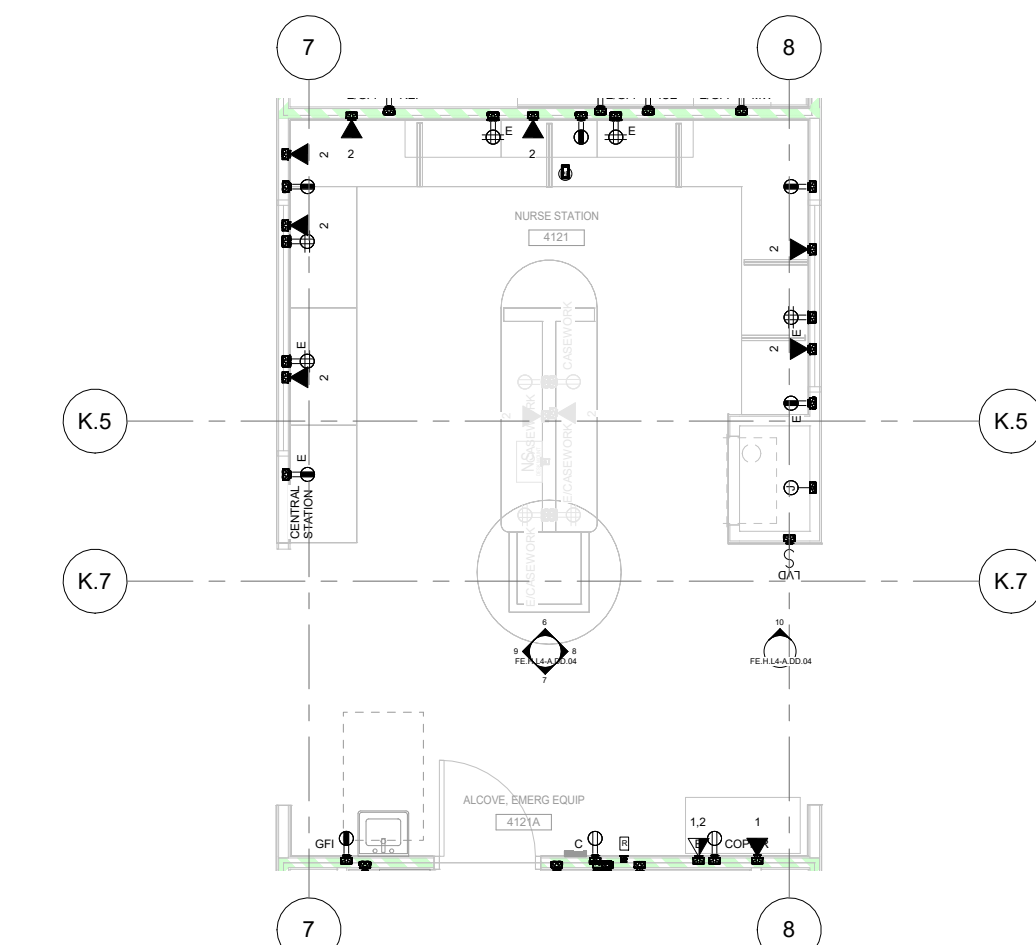
# WALL ELEVATIONS



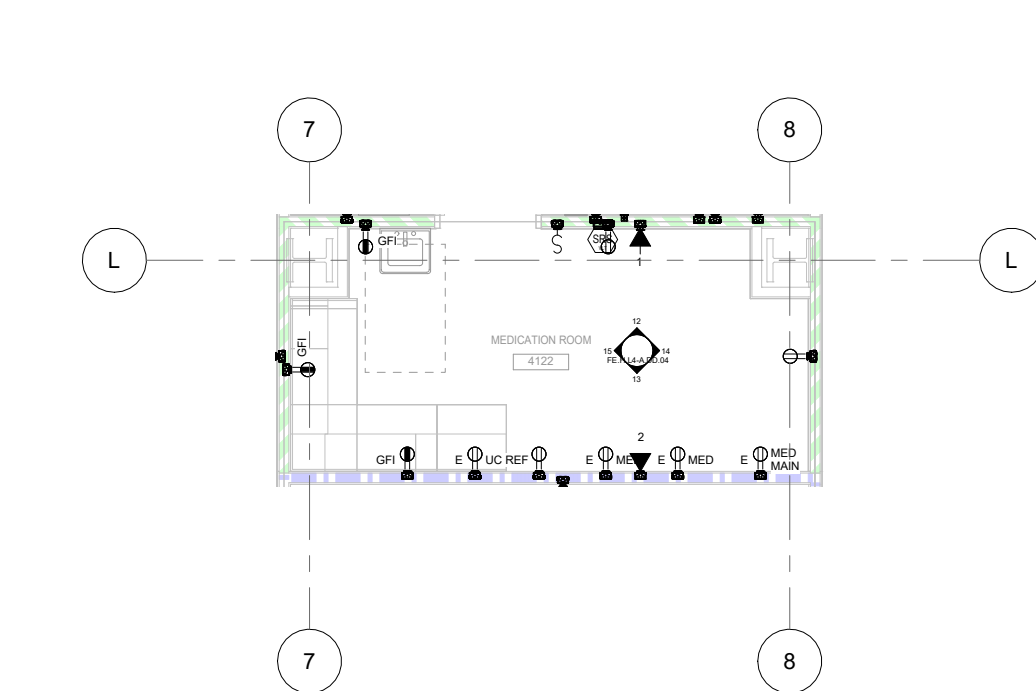
201 Spear Street, Suite 1750  
San Francisco, CA 94105



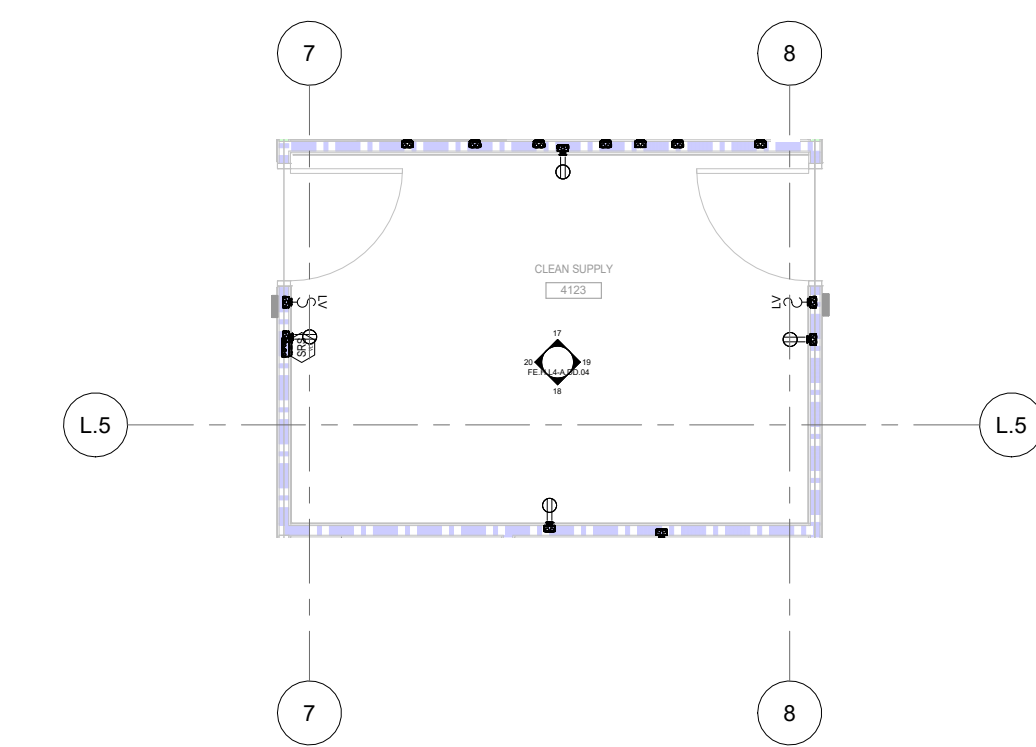
1 WV - NOURISHMENT 4120 - FLOOR PLAN VIEW  
1/4" = 1'-0"



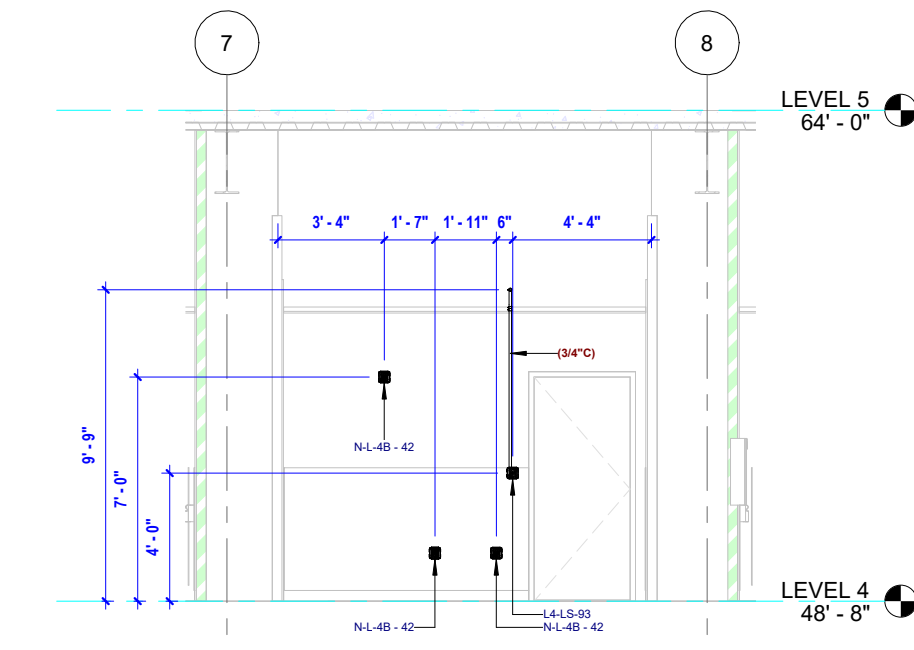
5 WV - NURSE STATION 4121 - FLOOR PLAN VIEW  
1/4" = 1'-0"



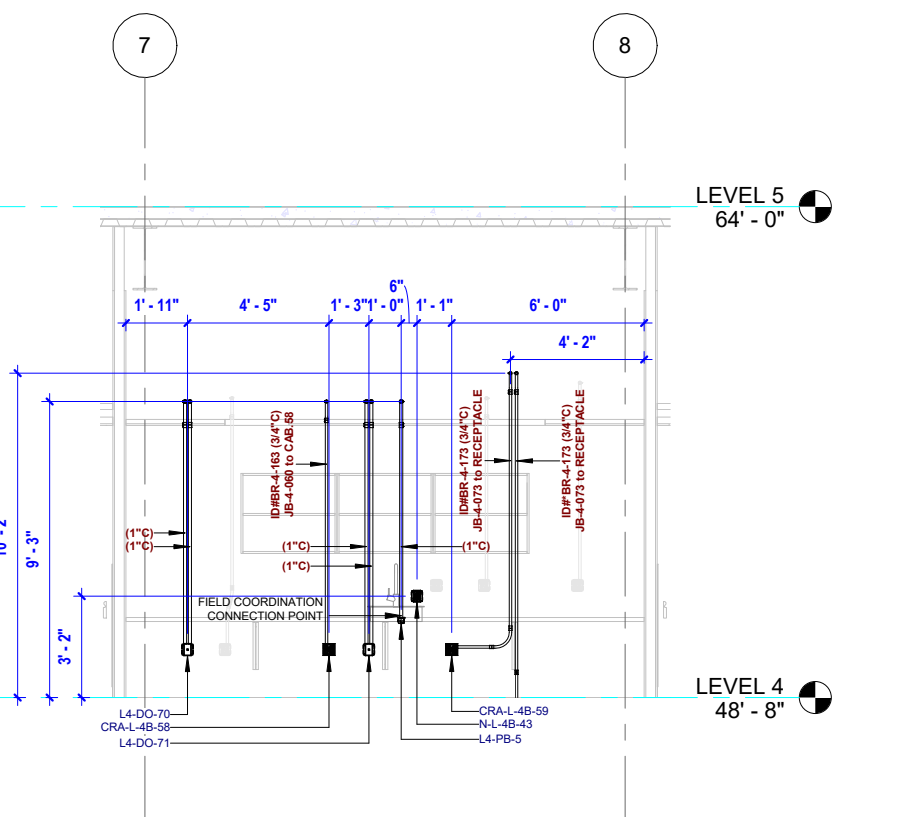
11 WV - MEDICATION ROOM 4122 - FLOOR PLAN VIEW  
1/4" = 1'-0"



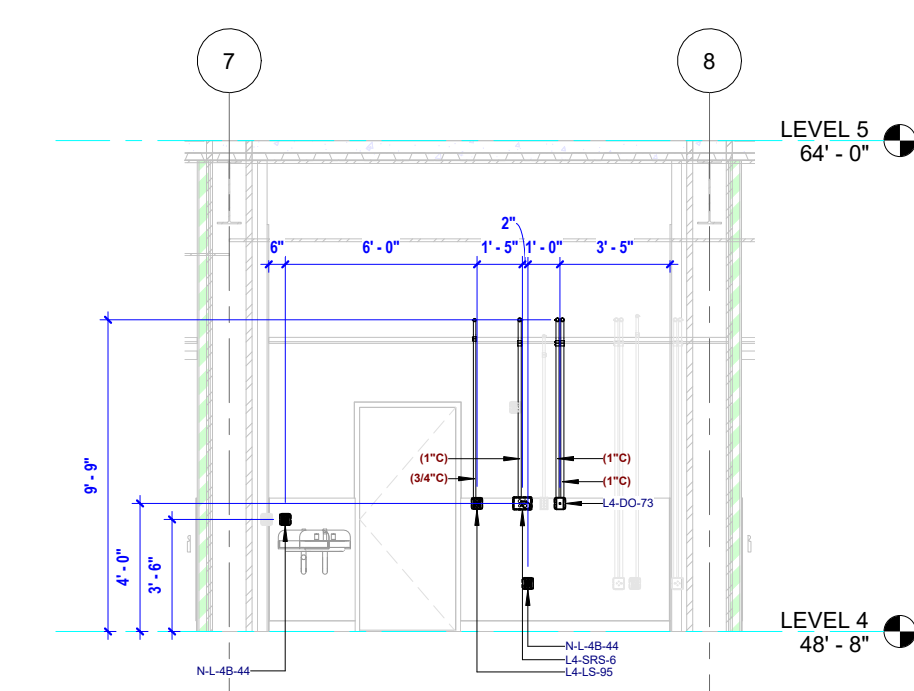
16 WV - CLEAN SUPPLY 4123 - FLOOR PLAN VIEW  
1/4" = 1'-0"



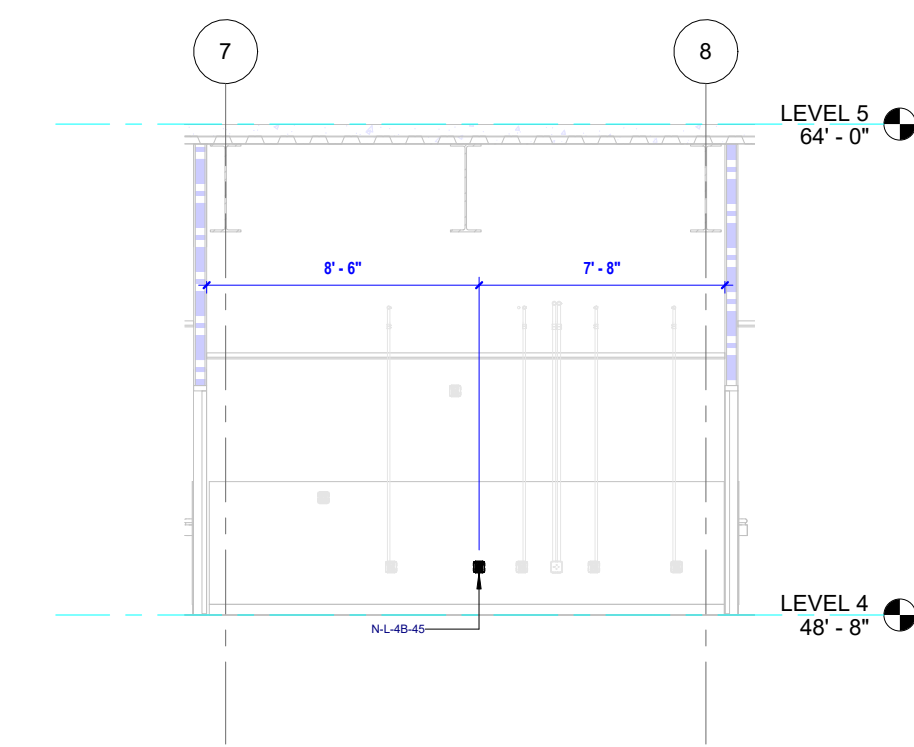
2 NOURISHMENT 4120 - NORTH VIEW  
1/4" = 1'-0"



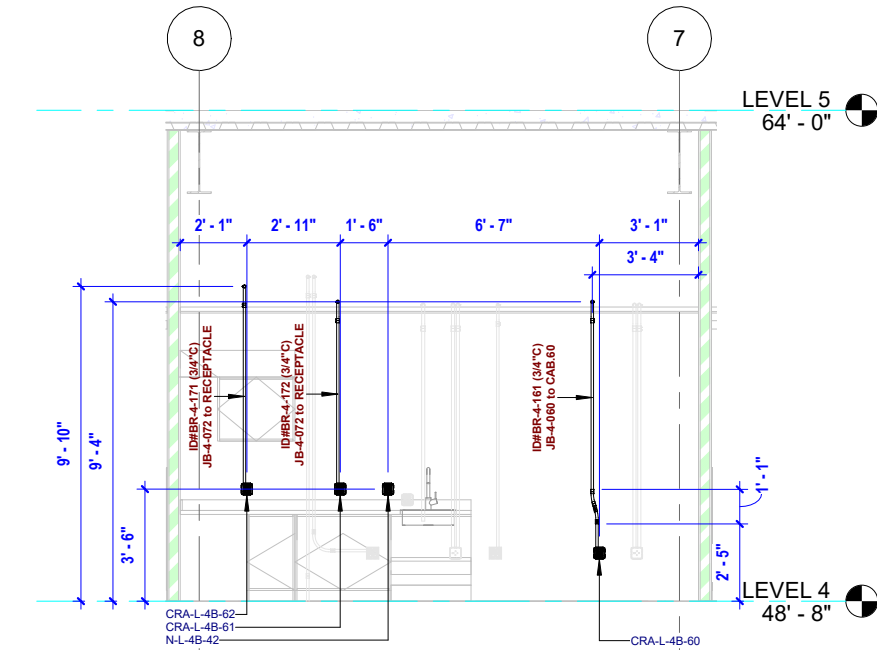
6 NURSE STATION 4121 - NORTH VIEW  
1/4" = 1'-0"



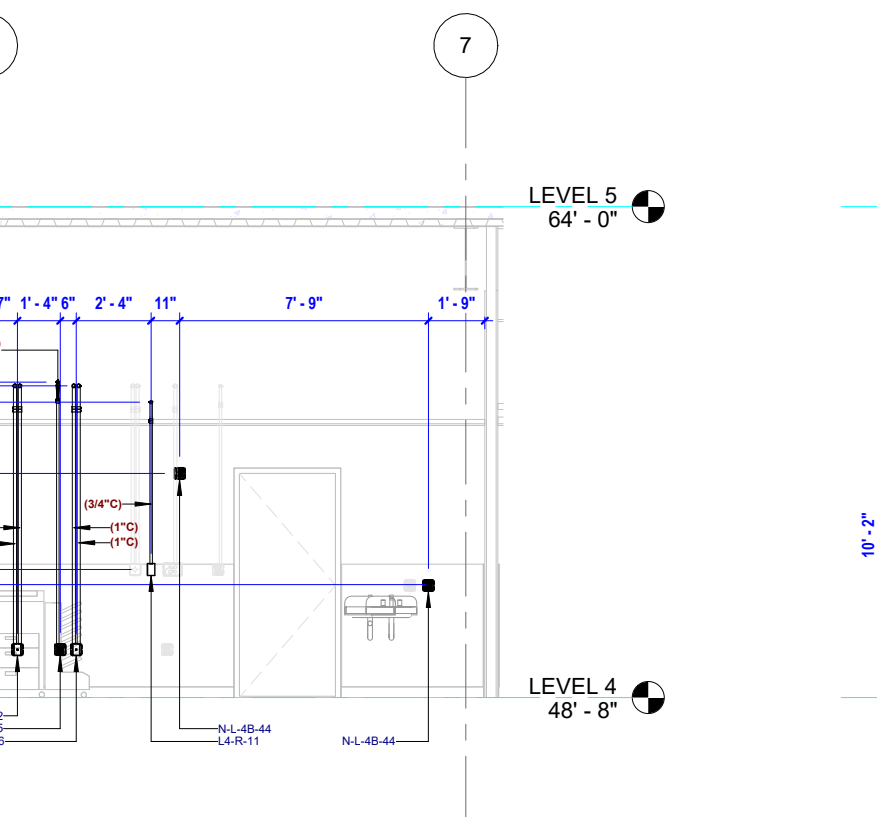
12 MEDICATION ROOM 4122 - NORTH VIEW  
1/4" = 1'-0"



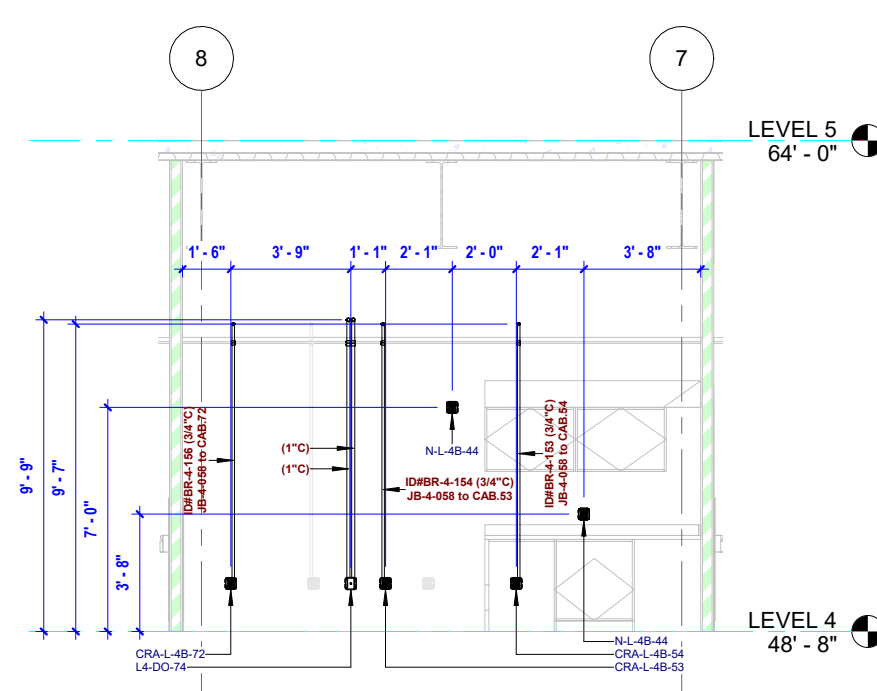
17 CLEAN SUPPLY 4123 - NORTH VIEW  
1/4" = 1'-0"



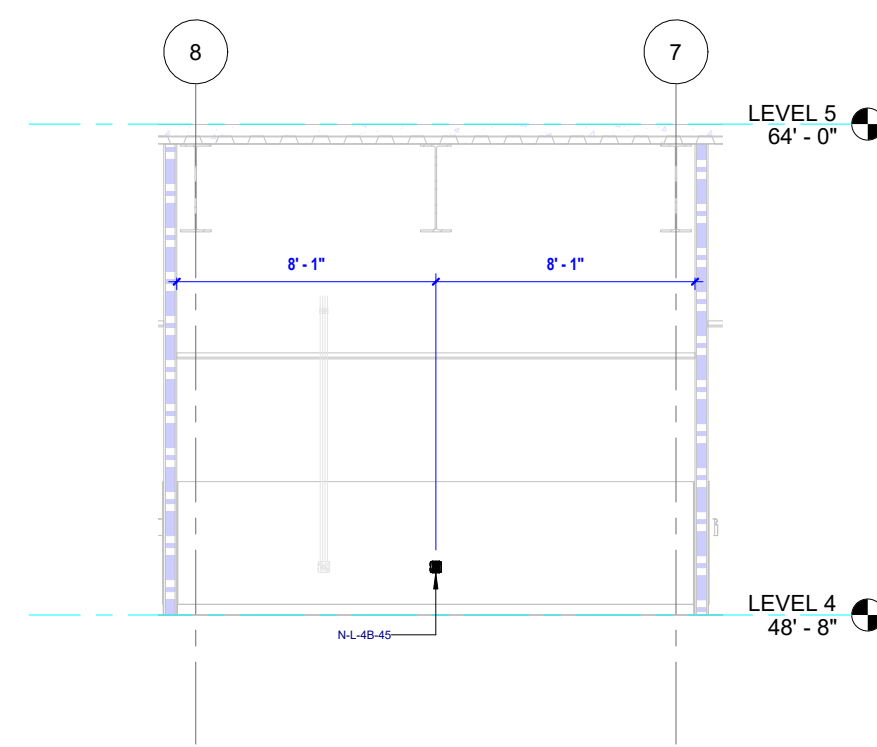
3 NOURISHMENT 4120 - SOUTH VIEW  
1/4" = 1'-0"



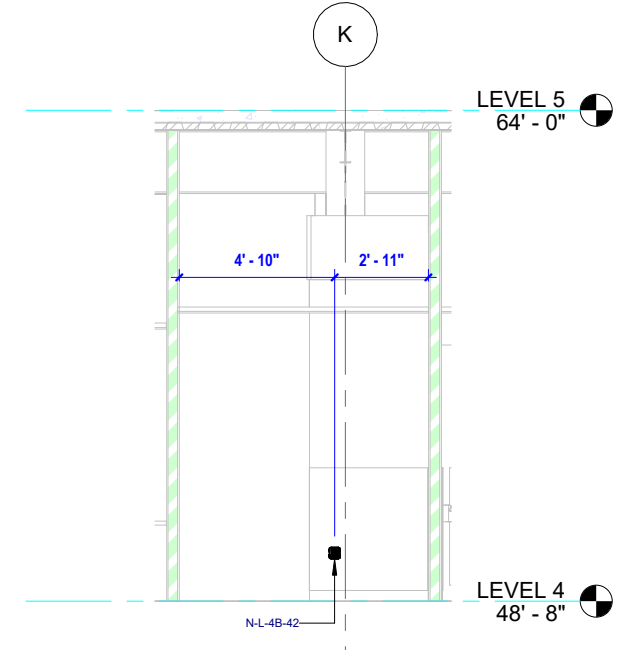
7 ALCOVE, EMERG EQUIP 4121A - SOUTH VIEW  
1/4" = 1'-0"



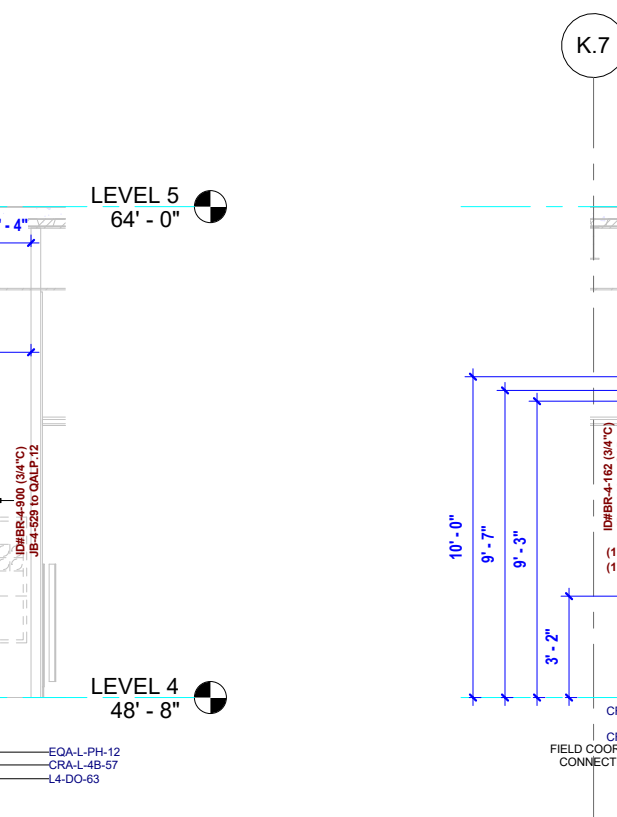
13 MEDICATION ROOM 4122 - SOUTH VIEW  
1/4" = 1'-0"



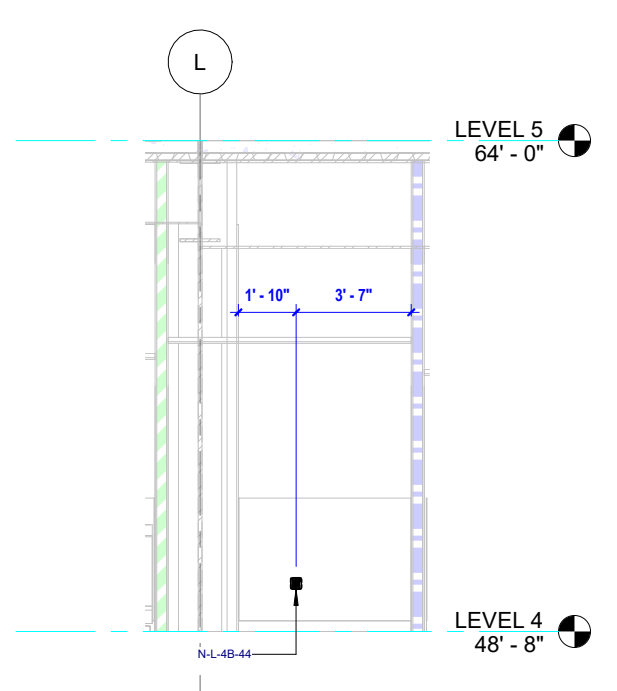
18 CLEAN SUPPLY 4123 - SOUTH VIEW  
1/4" = 1'-0"



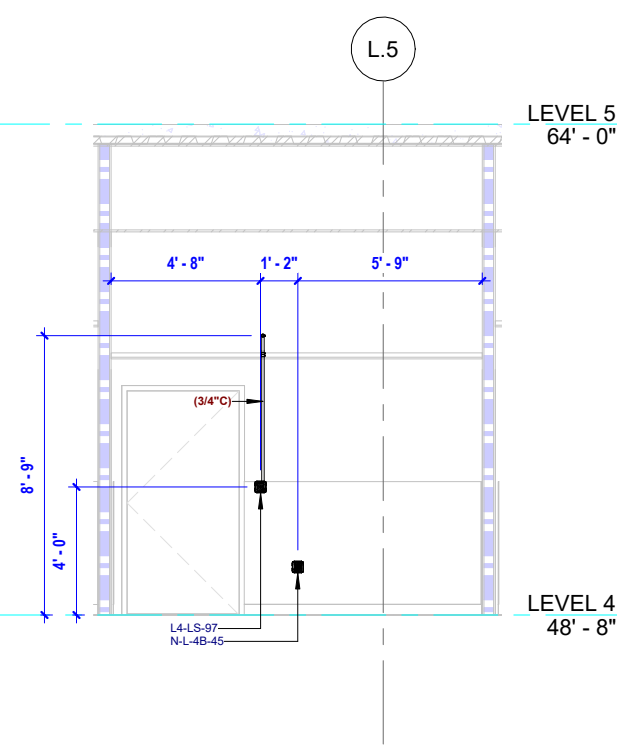
4 NOURISHMENT 4120 - WEST VIEW  
1/4" = 1'-0"



8 NURSE STATION 4121 - EAST VIEW  
1/4" = 1'-0"



14 MEDICATION ROOM 4122 - EAST VIEW  
1/4" = 1'-0"



19 CLEAN SUPPLY 4123 - EAST VIEW  
1/4" = 1'-0"

## DEVICES ABBREVIATIONS

LS - LIGHTING SWITCH

PB - PULL BOX

## TELECOM DEVICES ABBREVIATION

VC - VOLUME CONTROLLER

HS - HORN SPEAKER

VO - VOICE OUTLET

WP - WALL PHONE VOICE OUTLET WITH TWO POST FACEPLATE

DO - DATA OUTLET

DVO - VOICE AND/OR DATA OUTLET, ABOVE COUNTER

TV - OUTLET FOR TV

WS - WORKSTATION

ST - STROBE

R - CREDENTIAL READER

RR - CREDENTIAL READER WITH KEYPAD

RP - CREDENTIAL READER WITH PINPAD

RX - REQUEST TO EXIT DEVICE

DC - DOOR CONTACT

CC - CCTV CAMERA

ID - INTERCOM DOOR STATION

IM - INTERCOM MASTER STATION

IS - INTERCOM SUB STATION

ID - VIDEO INTERCOM DOOR STATION

VM - VIDEO INTERCOM MASTER STATION

VS - VIDEO INTERCOM SUB STATION

MM - CCTV MONITOR

PB - PANIC BUTTON

WS - WORKSTATION

WS - WORKSTATION

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## SECURITY DEVICES ABBREVIATION

TE - TAG EXCITER

PT - PROXIMITY TAG EXCITER

OTR - OUTDOOR TRR

OTE - OUTDOOR TAG EXCITER

CP - SWITCH, CODE GREEN W/CANCEL

CS - SWITCH, CODE GREEN W/CANCEL

E - SWITCH, BATH SWITCH, W/CANCEL, SUPERVISED

ES - SWITCH, BATH SWITCH, W/CANCEL, SUPERVISED

SE - SWITCH, STAFF EMERGENCY LEVER, SALMON, W/CANCEL, SUPERVISED

CB - SWITCH, CODE BLUE PUSH BUTTON SWITCH

SE - SWITCH, STAFF EMERGENCY PUSH BUTTON SWITCH

CPB - SWITCH, CODE PINK PUSH BUTTON SWITCH

CPW - SWITCH, CODE PINK W/CANCEL

CS - SWITCH, CODE BLUE SWITCH W/CANCEL

PC - SWITCH, CODE PINK SWITCH W/CANCEL

BHPC - PUSH BUTTON SWITCH, BEHAVIORAL W/ CANCEL

RAD - RAD - REMOTE AUDIO DEVICE

SRS - STAFF STATION STANDARD W/O CODE (SRS)

SRSCB - PATIENT STATION STANDARD W/O CODE (SRSCB)

SRST - STAFF STATION STANDARD W/O CODE (SRST)

SRSTB - STAFF STATION STANDARD W/O CODE (SRSTB)

SRSTB - STAFF STATION STANDARD W/O CODE (SRSTB)

SRSTB - STAFF STATION STANDARD W/O CODE (SRSTB)

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SRSTB - STAFF STATION STANDARD W/O CODE (SRSTB)

## NURSE CALL DEVICES ABBREVIATION

NS - GRAPHICAL STAFF CONSOLE, DESK MT. (GRSICH)

HS - GRAPHICAL STAFF CONSOLE, WALL MOUNT w/ HANDSET

BC - AUDIO STATION BED CONNECTOR (ASBC Standalone)

D - DOME LIGHT

Z - ZONE LIGHT

DS - DOME LIGHT, SINGLE BULB

KS - SWITCH, KEY SWITCH, ENABLE/DISABLE

EQ - EQUIPMENT RECEPTACLE

EQ2 - EQUIPMENT RECEPTACLE TWO JACK

CB - SWITCH, CODE BLUE PUSH BUTTON SWITCH

SE - SWITCH, STAFF EMERGENCY PUSH BUTTON SWITCH

CPB - SWITCH, CODE PINK PUSH BUTTON SWITCH

CPW - SWITCH, CODE PINK W/CANCEL

CS - SWITCH, CODE BLUE SWITCH W/CANCEL

PC - SWITCH, CODE PINK SWITCH W/CANCEL

BHPC - PUSH BUTTON SWITCH, BEHAVIORAL W/ CANCEL

RAD - RAD - REMOTE AUDIO DEVICE

SRS - STAFF STATION STANDARD W/O CODE (SRS)

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SRSTB - STAFF STATION STANDARD W/O CODE (SRSTB)



# LIGHTING LAYOUT



201 Spear Street, Suite 1750  
San Francisco, CA 94105

| DATE                    | 05/22/23 |
|-------------------------|----------|
| REVISION                |          |
| DESCRIPTION             |          |
| ISSUED FOR CONSTRUCTION |          |

BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

## LEGEND:

ABBREVIATIONS:

COLF - CENTER OF LIGHTING FIXTURE FROM LEVEL  
BOLF - BOTTOM OF LIGHTING FIXTURE FROM LEVEL  
RL - ROD LENGTH

LEGEND LIGHTING FIXTURES:

- WALL MOUNTED
- SURFACE MOUNTED
- SUSPENDED MOUNTED
- WALL MOUNTED EXIT SIGN
- SURFACE MOUNTED EXIT SIGN

LEGEND:

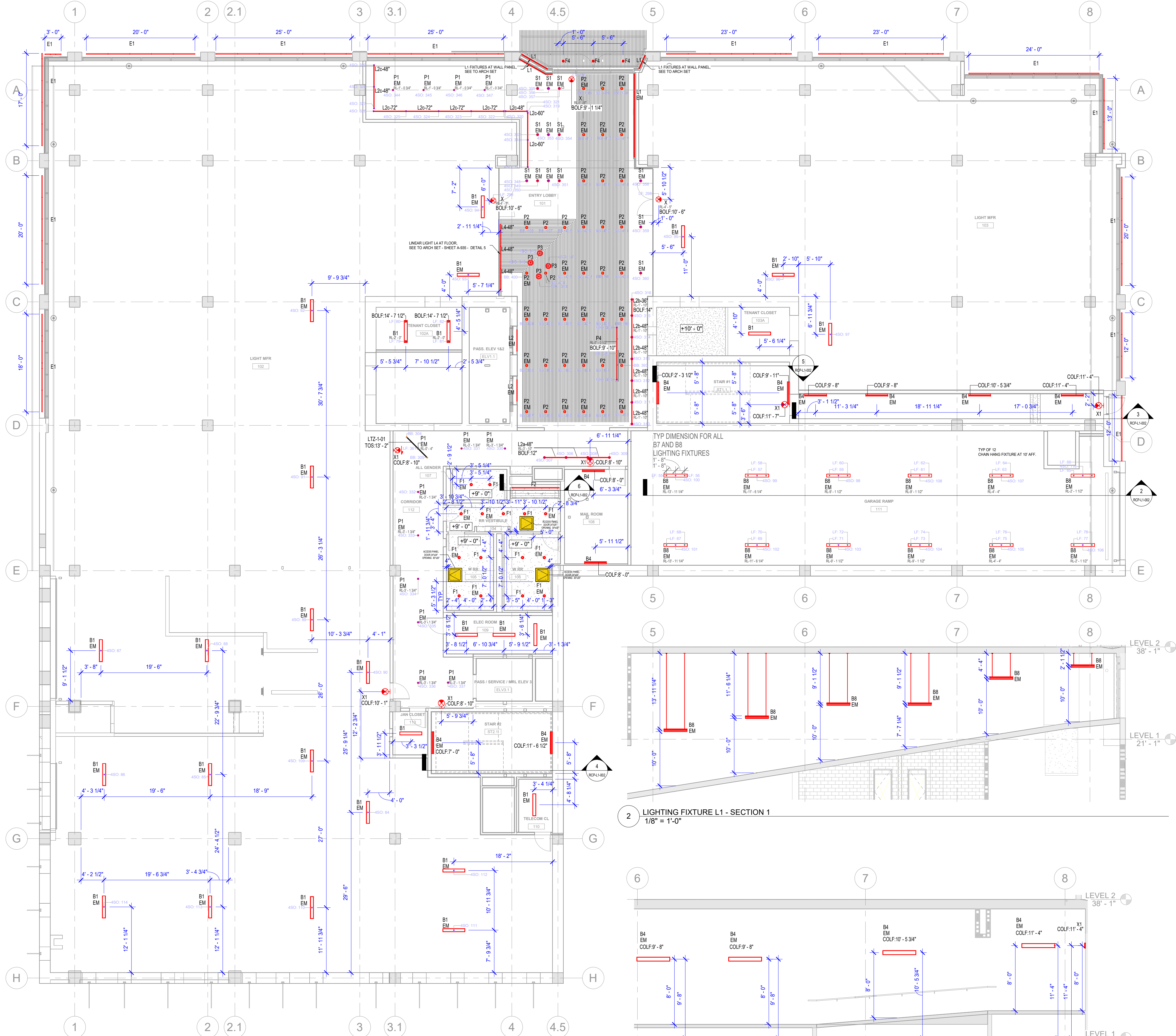
- 4" OCTAGON 2 1/8" DEPTH IN SLAB BOX
- ACCESS PANEL DOOR SIZE 24"x24" CEILING OPENING 30" x 30"

ORIGINAL PRINT SIZE = 36x48

KEY PLAN:

JOB NUMBER: 00001  
ISSUED FOR: 5/23/2023 3:12:38 PM  
DATE: 5/23/2023 3:12:38 PM  
DRAWN BY: Author  
CHECKED BY: Checker  
DRAWING SCALE: As indicated  
SHEET TITLE: LIGHTING LAYOUT

DRAWING NUMBER: RCP-01-01



| ACCESS PANEL SCHEDULE - LEVEL 1 |         |         |       |
|---------------------------------|---------|---------|-------|
| NAME                            | DOOR    | OPENING | COUNT |
| ACCESS PANEL                    | 24"x24" | 30"x30" | 3     |

## LIGHTING FIXTURE SCHEDULE - LEVEL 1

| TYPE   | QUANTITY |
|--------|----------|
| B1     | 26       |
| B4     | 11       |
| F1     | 15       |
| F4     | 3        |
| L4-48" | 3        |
| P2     | 39       |
| P3     | 4        |
| S1     | 13       |
| X1     | 6        |

## LINEAR LIGHTING FIXTURE SCHEDULE - LEVEL 1

| TYPE | LENGTH    |
|------|-----------|
| F2   | 17' - 11" |
| L1   | 40' - 11" |
| L2   | 8' - 0"   |

## E1 LIGHTING FIXTURE SCHEDULE - LEVEL 1

| TYPE | LENGTH    |
|------|-----------|
| E1   | 255' - 0" |

## SUSPENDED LIGHTING FIXTURE SCHEDULE - LEVEL 1

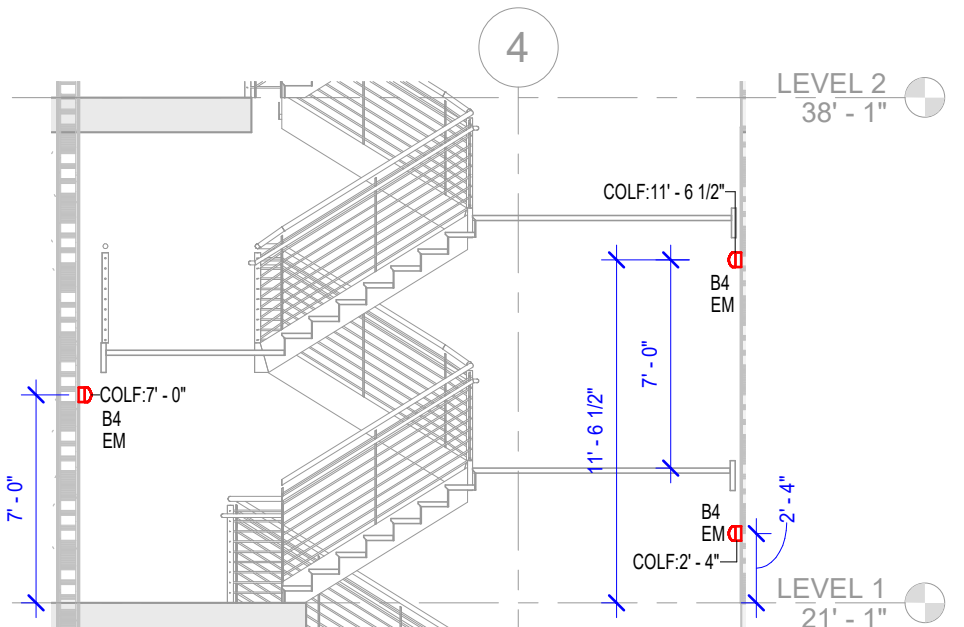
| TYPE | ROD LENGTH    | QUANTITY |
|------|---------------|----------|
| B1   | 2' - 0"       | 2        |
| B8   | 2' - 1 1/2"   | 2        |
| B8   | 4' - 4"       | 2        |
| B8   | 9' - 1 1/2"   | 4        |
| B8   | 11' - 6 1/4"  | 2        |
| B8   | 13' - 11 1/4" | 2        |
| P1   | 0' - 4"       | 1        |
| P1   | 1' - 0 3/4"   | 4        |
| P1   | 3' - 1 3/4"   | 8        |
| P4   | 5' - 0 1/2"   | 1        |
| X    | 1' - 6"       | 1        |
| X    | 4' - 5"       | 2        |

## L2 LIGHTING FIXTURE SCHEDULE - LEVEL 1

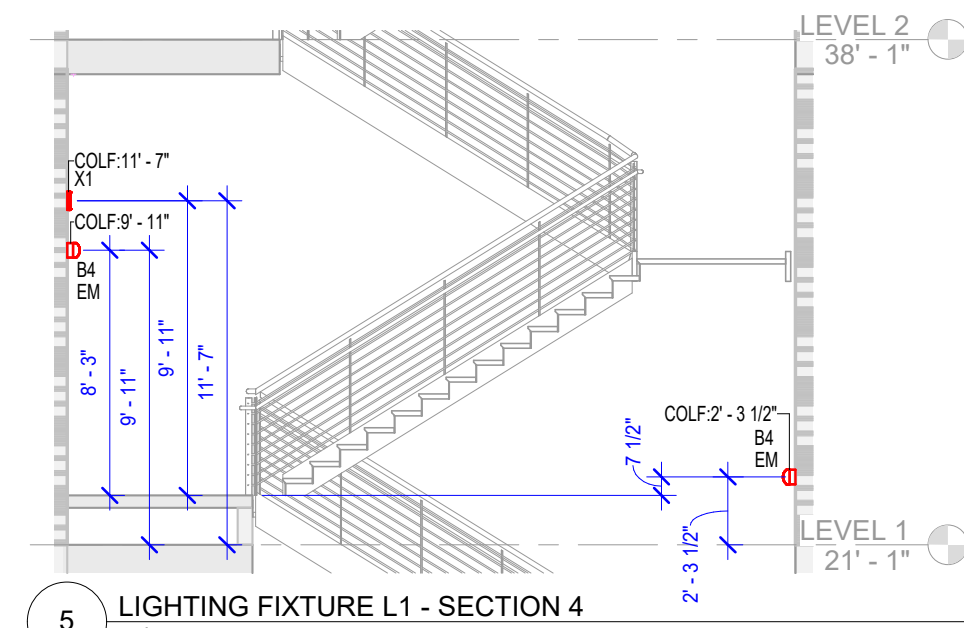
| TYPE    | ROD LENGTH  | QUANTITY |
|---------|-------------|----------|
| L2a-48" | 3' - 10"    | 3        |
| L2b-36" | 1' - 10"    | 1        |
| L2b-48" | 1' - 10"    | 5        |
| L2c-48" | 0' - 1 1/4" | 3        |
| L2c-60" | 0' - 1 1/4" | 2        |
| L2c-72" | 0' - 1 1/4" | 4        |

## LIGHTING SUPPORTS SCHEDULE L1, TRAPEZE

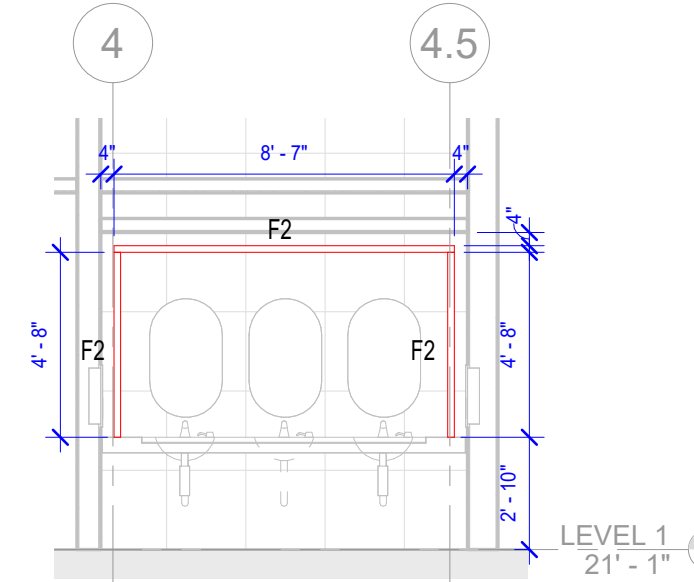
| RACK ID  | STRUT LENGTH | ROD LENGTH  | STRUT TYPE     | ROD DIAMETER | Q-TY |
|----------|--------------|-------------|----------------|--------------|------|
| LTZ-1-01 | 5' - 6"      | 3' - 1 3/4" | S-STRUT 1 5/8" | 0' - 0 3/8"  | 1    |



4 LIGHTING FIXTURE L1 - SECTION 3  
3/16" = 1'-0"



5 LIGHTING FIXTURE L1 - SECTION 4  
3/16" = 1'-0"



6 LIGHTING FIXTURE F2 - SECTION 5  
1/4" = 1'-0"

1 LIGHTING - LEVEL 1  
1/8" = 1'-0"

3 LIGHTING FIXTURE L1 - SECTION 2  
3/16" = 1'-0"

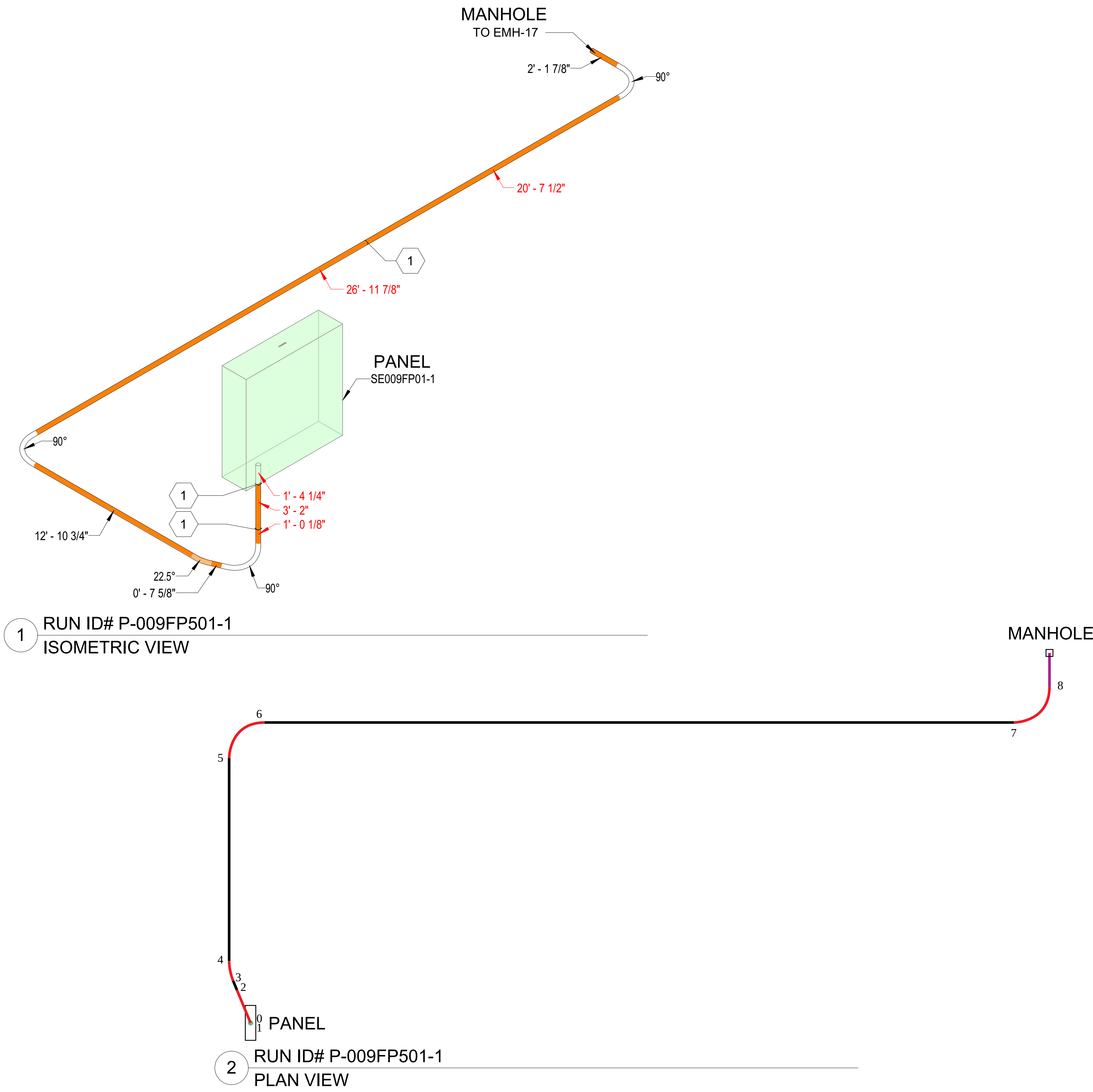


WIRE PULLING



201 Spear Street, Suite 1750  
San Francisco, CA 94105

Our team can assist with wire pulling calculations directly within the Revit model to validate if the wire pull in each conduit run complies with the allowable tension and side wall pressure that is specified. We can also identify which direction the wire can be pulled from with the least amount of tension/pressure, which can be helpful in determining the wire pull plan throughout the project.



SHEET NOTES  
1. CONDUIT AREA, LEVEL OR TYPE SEPARATOR

| Report                       |                   |
|------------------------------|-------------------|
| Run Info                     |                   |
| Run ID                       | P-009FP501-1      |
| From                         | SE009FP01-1       |
| To                           | EMH-17            |
| Conduit Type                 | PVC/RNC           |
| Conduit Size                 | 3"                |
| Conduit Fill                 | 24.5%             |
| Run Length                   | 81.19'            |
| Bend Sum                     | 292.5°(180+112.5) |
| Wire Info                    |                   |
| Wire Manufacturer            | Southwire         |
| Wire Type                    | CU USE            |
| Phase Wire Size              | (3)250            |
| Neutral Wire Size            | -                 |
| Ground Wire Size             | (3)6 G            |
| Wire Arrangement in Conduit  | Complex           |
| Weight Correction Factor     | 1.4               |
| Wire Distributed Weight      | 2.89 lb/ft        |
| Coefficient of Friction      | 0.35              |
| 75% Allowable Tension        | 3978 lbs          |
| Allowable Side Wall Pressure | 1000 lb/ft        |
| Jamming Probability          | Low               |
| Clearance                    | 1.35"             |
| Lubricant Info               |                   |
| Lubricant Manufacturer       | No Lubricant      |
| COF                          | 0.35              |
| Lubricant Quantity           | 0                 |

| Equations                                                                            |  |
|--------------------------------------------------------------------------------------|--|
| Straight horizontal or inclined section:                                             |  |
| $T_{out} = T_{in} + L \cdot w \cdot (f \cdot c \cdot \cos(\alpha) \pm \sin(\alpha))$ |  |
| Straight vertical pulling UP section:                                                |  |
| $T_{out} = T_{in} + L \cdot w$                                                       |  |
| Straight vertical pulling DOWN section:                                              |  |
| $T_{out} = T_{in} - L \cdot w$                                                       |  |
| Bend:                                                                                |  |
| $T_{out} = T_{in} \cdot \exp(f \cdot c \cdot \theta)$                                |  |

| Calculations: Wire Pull From Panel to Manhole |              |                            |            |                       |                              |
|-----------------------------------------------|--------------|----------------------------|------------|-----------------------|------------------------------|
| Point                                         | Tension, lbs | Side wall pressure, lbs/ft | Length, ft | Conduit incline angle | Bend sweep angle             |
| 0                                             | T = 25       | SP = 0                     | L = 0      | $\alpha = 0^\circ$    | $\theta = 0^\circ$           |
| 1                                             | T = 8.84     | SP = 0                     | L = 5.59   | $\alpha = 90^\circ$   | $\theta = 0^\circ$           |
| 2                                             | T = 19.08    | SP = 7                     | L = 3.66   | $\alpha = 0^\circ$    | $\theta = 90^\circ(R=24")$   |
| 3                                             | T = 19.99    | SP = 7                     | L = 0.64   | $\alpha = 0^\circ$    | $\theta = 0^\circ$           |
| 4                                             | T = 24.23    | SP = 8.88                  | L = 1.31   | $\alpha = 0^\circ$    | $\theta = 22.5^\circ(R=24")$ |
| 5                                             | T = 42.5     | SP = 8.88                  | L = 12.89  | $\alpha = 0^\circ$    | $\theta = 0^\circ$           |
| 6                                             | T = 91.76    | SP = 33.65                 | L = 3.66   | $\alpha = 0^\circ$    | $\theta = 90^\circ(R=24")$   |
| 7                                             | T = 159.24   | SP = 33.65                 | L = 47.62  | $\alpha = 0^\circ$    | $\theta = 0^\circ$           |
| 8                                             | T = 343.82   | SP = 126.07                | L = 3.66   | $\alpha = 0^\circ$    | $\theta = 90^\circ(R=24")$   |
| 9                                             | T = 346.87   | SP = 126.07                | L = 2.16   | $\alpha = 0.12^\circ$ | $\theta = 0^\circ$           |

| Calculations: Wire Pull From Panel to Manhole |              |                            |            |                       |                              |
|-----------------------------------------------|--------------|----------------------------|------------|-----------------------|------------------------------|
| Point                                         | Tension, lbs | Side wall pressure, lbs/ft | Length, ft | Conduit incline angle | Bend sweep angle             |
| 9                                             | T = 25       | SP = 0                     | L = 0      | $\alpha = 0^\circ$    | $\theta = 0^\circ$           |
| 8                                             | T = 28.08    | SP = 0                     | L = 2.16   | $\alpha = 0.12^\circ$ | $\theta = 0^\circ$           |
| 7                                             | T = 60.62    | SP = 22.23                 | L = 3.66   | $\alpha = 0^\circ$    | $\theta = 90^\circ(R=24")$   |
| 6                                             | T = 128.1    | SP = 22.23                 | L = 47.62  | $\alpha = 0^\circ$    | $\theta = 0^\circ$           |
| 5                                             | T = 276.57   | SP = 101.41                | L = 3.66   | $\alpha = 0^\circ$    | $\theta = 90^\circ(R=24")$   |
| 4                                             | T = 294.85   | SP = 101.41                | L = 12.89  | $\alpha = 0^\circ$    | $\theta = 0^\circ$           |
| 3                                             | T = 357.41   | SP = 131.05                | L = 1.31   | $\alpha = 0^\circ$    | $\theta = 22.5^\circ(R=24")$ |
| 2                                             | T = 358.31   | SP = 131.05                | L = 0.64   | $\alpha = 0^\circ$    | $\theta = 0^\circ$           |
| 1                                             | T = 773.63   | SP = 283.66                | L = 3.66   | $\alpha = 0^\circ$    | $\theta = 90^\circ(R=24")$   |
| 0                                             | T = 789.79   | SP = 283.66                | L = 5.59   | $\alpha = 90^\circ$   | $\theta = 0^\circ$           |

| REVISION | DESCRIPTION             | DATE     |
|----------|-------------------------|----------|
| 1        | ISSUED FOR CONSTRUCTION | 05/22/23 |

BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

LEGEND:

| Color Legend |                                 |
|--------------|---------------------------------|
|              | Straight conduit                |
|              | Conduit incline up              |
|              | Conduit incline down            |
|              | Fitting                         |
|              | From->To pulling direction Up   |
|              | From->To pulling direction Down |
|              | From                            |
|              | To                              |
|              | Conduit                         |

| Abbreviations and Symbols |                                |
|---------------------------|--------------------------------|
| f                         | Coefficient of Friction        |
| c                         | Weight Correction Factor       |
| w                         | Wire distributed weight, lb/ft |
| $\alpha$                  | Conduit incline angle          |
| $\theta$                  | Fitting sweep angle in radians |

ORIGINAL PRINT SIZE = 36x48

KEY PLAN:

|                  |                      |
|------------------|----------------------|
| JOB NUMBER:      | 00001                |
| ISSUED FOR:      |                      |
| DATE:            | 5/23/2023 3:12:38 PM |
| DRAWN BY: Author | CHECKED BY: Checker  |
| DRAWING SCALE:   | As indicated         |
| SHEET TITLE:     |                      |

WIRE PULLING

DRAWING NUMBER: WP-01-01