



# Lofty Estimation

Accurate Estimates, Every Time

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Info@loftyestimation.com

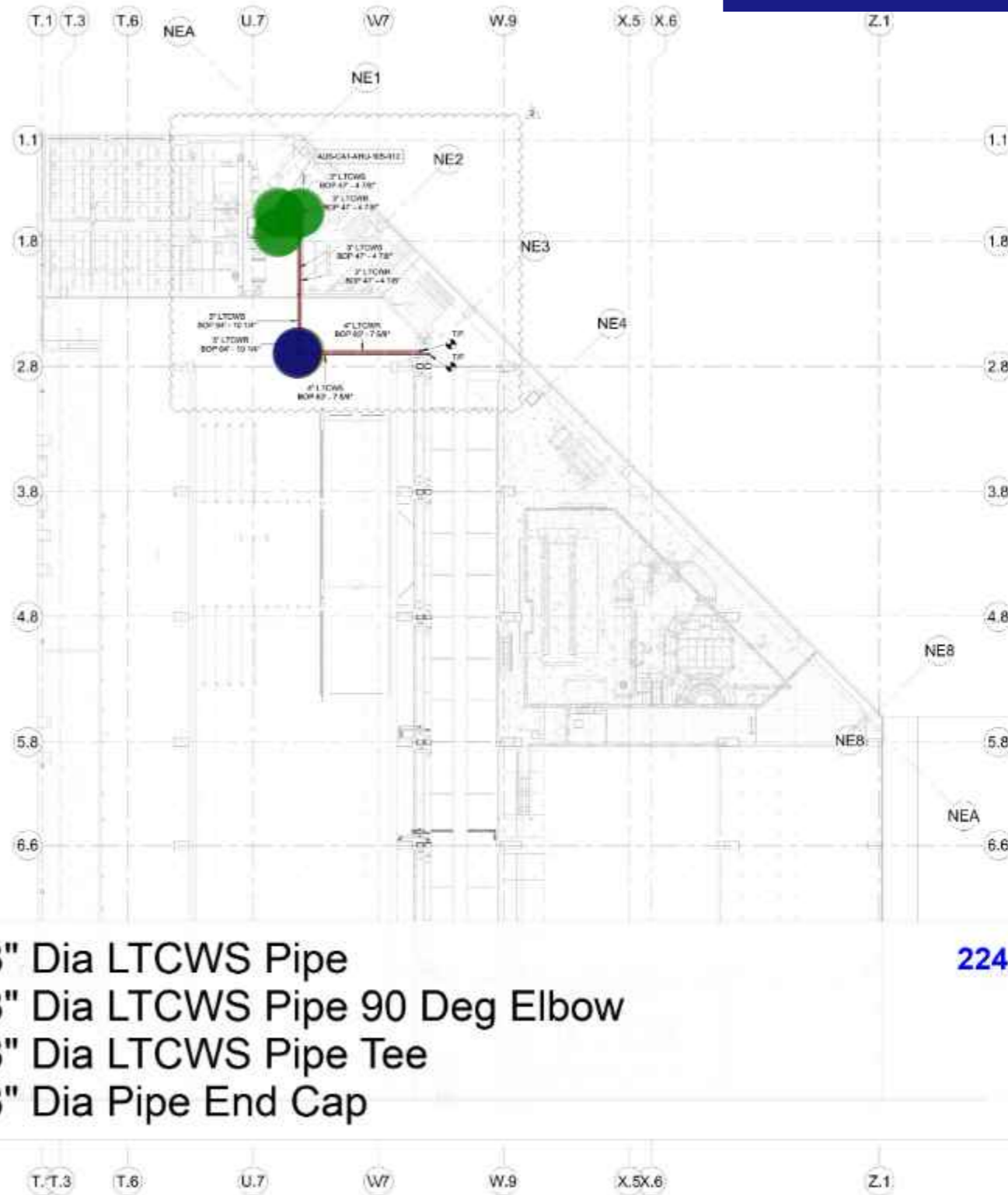


GIGA TEXAS

CASTING 1

PROJECT NUMBER  
GFTX\_CA1\_01  
PROJECT ADDRESS  
1 Tesla Rd, Austin, TX 78725

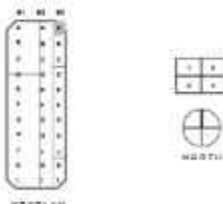
CONFIDENTIAL



- 3" Dia LTCWS Pipe
- 3" Dia LTCWS Pipe 90 Deg Elbow
- 3" Dia LTCWS Pipe Tee
- 3" Dia Pipe End Cap

- 224.0 FT
- 6.0
- 2.0
- 2.0

DATE	DESCRIPTION
10/20/2020	ISSUE 01
10/20/2020	ISSUE 02



Drawn By: AIL Checked By: AIL



MECHANICAL  
PIPING -  
MEZZANINE  
LAYOUT A0

SHEET NUMBER  
AUS-B3-MP-102-A0-CA1





GIGA TEXAS

CASTING 1

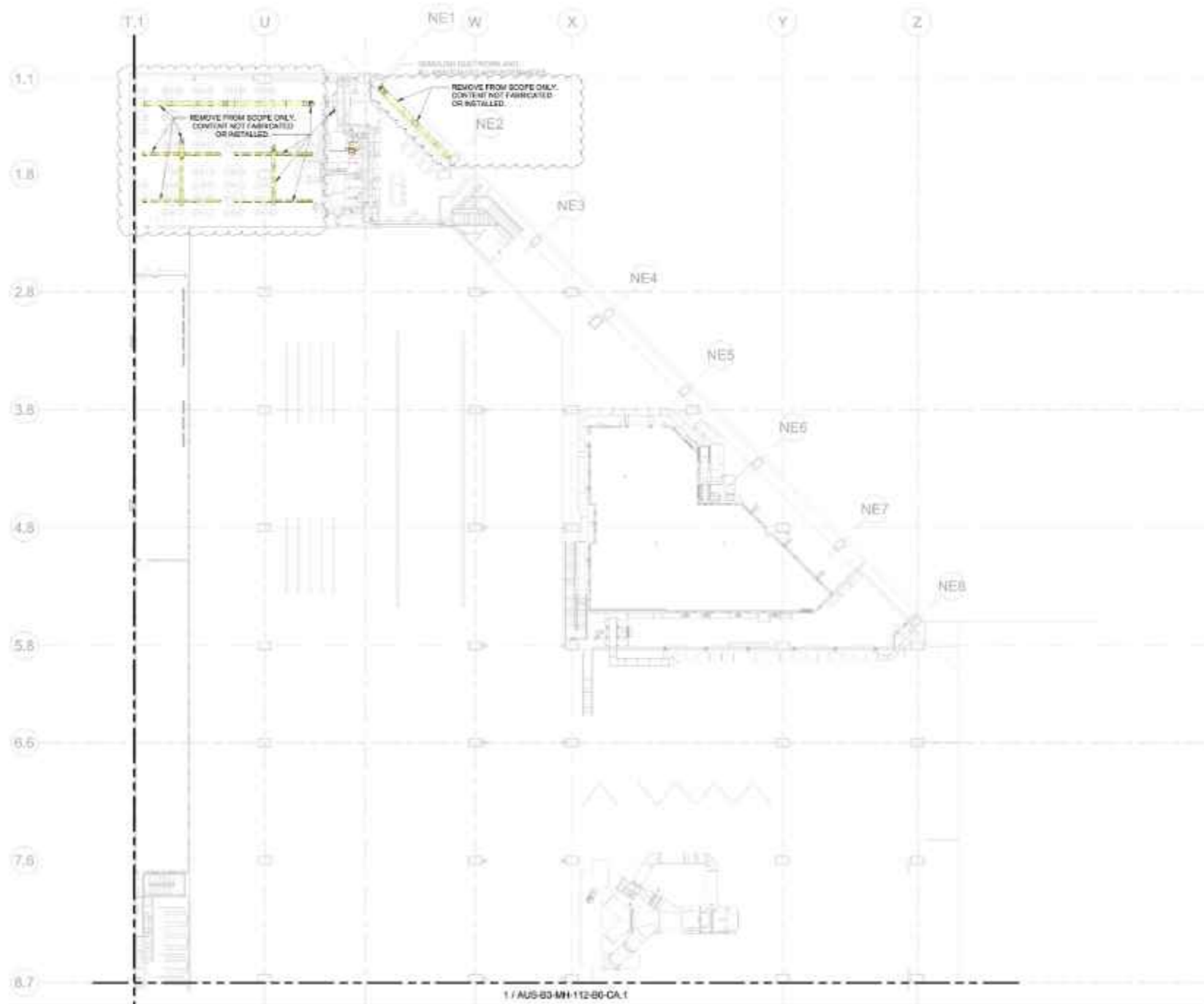
PROJECT NUMBER: GFTX\_CA1\_01  
PROJECT ADDRESS: 1 Tesla Rd, Austin, TX 78725

CONFIDENTIAL

### GENERAL NOTES

1. REMOVE ALL ASSOCIATED DUCT HANGERS.
2. CAP ALL ASSOCIATED EXISTING DUCT AND SEAL.
3. RETURN ALL DEMOED EQUIPMENT AND GRILLS TO OWNER.
4. ANY DUCT THAT PENETRATES A FLOOR AND GETS DEMOED TO BE MADE SAFE BEFORE LEAVE THE AREA.
5. ALL DEMO WORK TO BE COORDINATED WITH THE INSTALLATION OF THE NEW HVAC SYSTEM TO AVOID SHOP PRODUCTION INTERUPTIONS.
6. ALL DUCTWORK TO BE PROPERLY DEMOED AND SAVED FOR FUTURE USE.
7. ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING AND APPURTENANCES TO REMAIN UNLESS OTHERWISE NOTED.

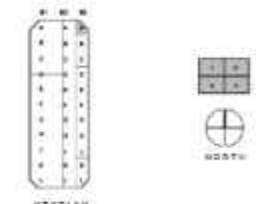
### KEYED NOTES



1 / AUS-B3-MH-112-B0-CA.1

Existing Duct And Grille To Be Removed 137.6 FT

1	DESIGNED BY	DATE
2	ASSEMBLY FACTORY DEMO	DATE
3	PROJECT	DATE



Drawn By: J. VESA      Checked By: A. ARASH

MECHANICAL HVAC - SECOND FLOOR DEMO A0

PROJECT NUMBER: AUS-B3-MH-112-A0-CA.1

0000000000



GIGA TEXAS

CASTING 1

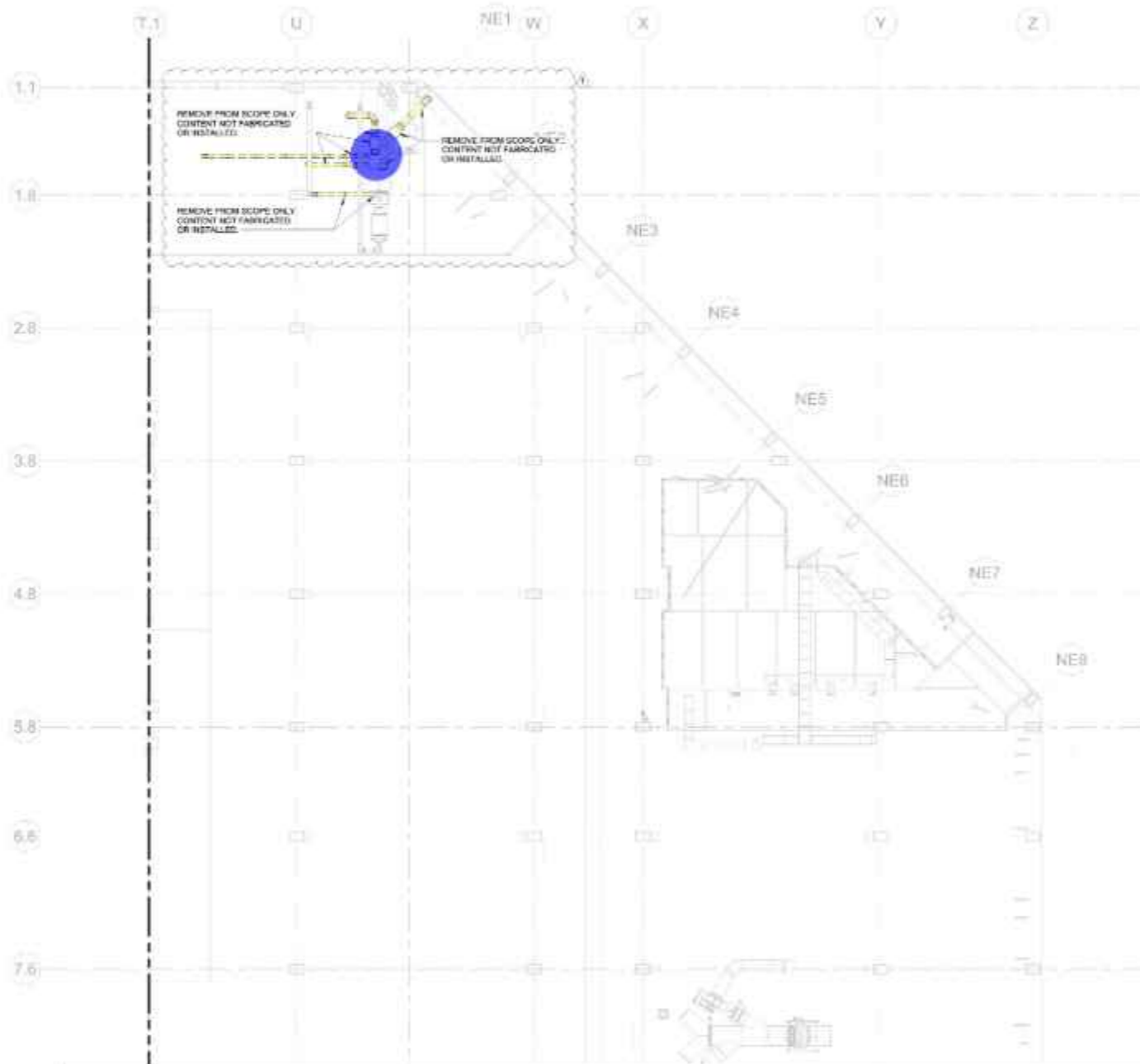
PROJECT NUMBER: GFTX\_CA1\_01  
PROJECT ADDRESS: 1 Tesla Rd, Austin, TX 78725

CONFIDENTIAL

GENERAL NOTES

1. REMOVE ALL ASSOCIATED DUCT HANGERS.
2. CAP ALL ASSOCIATED EXISTING DUCT AND SEAL.
3. RETURN ALL DAMAGED EQUIPMENT AND GRIDS TO OWNER.
4. ANY DUCT THAT PENETRATES A FLOOR AND GETS DAMAGED TO BE MADE SAFE BEFORE LEAVE THE AREA.
5. ALL DEMO WORK TO BE COORDINATED WITH THE INSTALLATION OF THE NEW HVAC SYSTEM TO AVOID SHOP PRODUCTION INTERRUPTIONS.
6. ALL ELECTRICAL TO BE PROPERLY DISCONNECTED AND SAVED FOR FUTURE USE.
7. ALL EXISTING MECHANICAL EQUIPMENT, ELECTRICAL, PIPING AND APERTURANCES TO REMAIN UNLESS OTHERWISE NOTED.

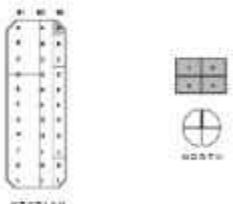
KEYED NOTES



Existing Duct And Grille To Be Removed  
 Existing HVAC Equipment To Be Removed

73.9 FT  
 1.0

1	DESIGNED BY	GFTX/001
2	ASSEMBLY/FACTORY/SHOP	04/2024
3	DATE	04/2024



Drawn By: J. VESA  
 Checked By: A. ARASHI

MECHANICAL  
 HVAC - SECOND  
 MEZZANINE DEMO  
 A0

PROJECT NUMBER: AUS-B3-MH-113-A0-CA.1

04/2024





GIGA TEXAS

PROJECT TITLE  
CASTING 1

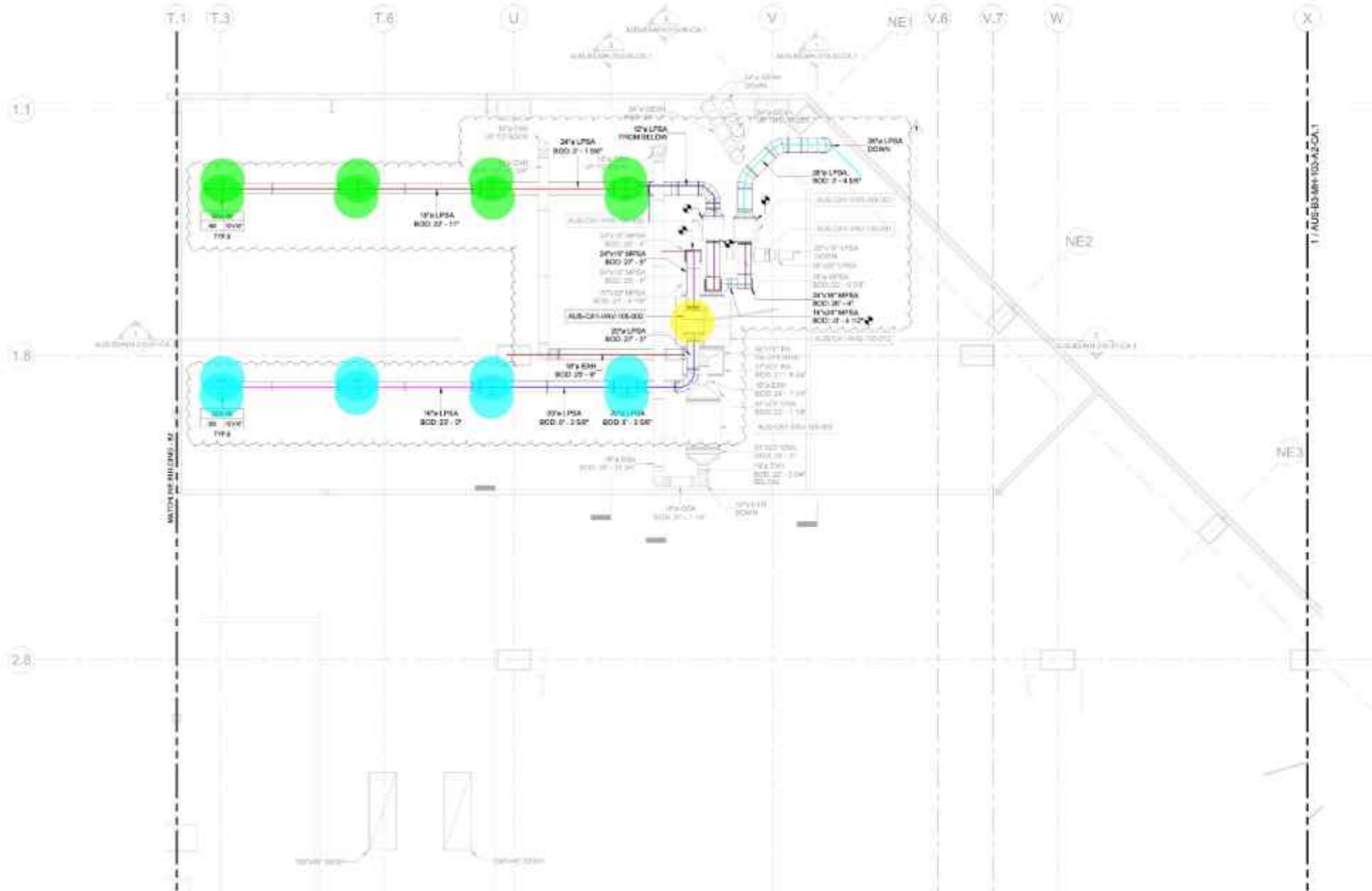
PROJECT NUMBER  
GFTX\_CA1\_01  
PROJECT ADDRESS  
1 Tesla Rd, Austin, TX 78725

CONFIDENTIAL

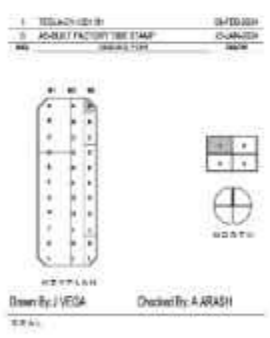
GENERAL NOTES

1. BOTTOM OF DUCT ELEVATIONS IN REFERENCES TO SHEET REFERENCE LEVEL.
2. PROVIDE MANUAL VOLUME DAMPERS AS SHOWN, TYPICAL.
3. PROVIDE FIRE STOPPING AT ALL PERIMETER SPACES, OPENINGS, PENETRATIONS ETC. IN FIRE RATED PARTITIONS, FIRE RATED WALLS AND FIRE RATED FLOORS WHERE FIRE AND/OR SMOKE SEPARATION ARE REQUIRED. ALL PENETRATIONS THROUGH RATED WALL CONSTRUCTION ARE TO BE PROPERLY SEALED WITH AN APPROVED FIRE STOPPING MATERIAL.
4. AVOID BLOCKING ALL SERVICEABLE COMPONENTS & EQUIPMENT WHEN INSTALLING DUCTS, DAMPERS, FITTINGS & EQUIPMENT.
5. POSITION DAMPERS & EQUIPMENT (FILTER HOUSINGS, ETC.) TO FACILITATE EASE OF USE & PROPER FUNCTIONALITY.
6. DAMPERS THAT WILL BE INSULATED REQUIRE A HANDLE EXTENSION TO EXTEND THE HANDLE ABOVE INSULATION.
7. REFER TO SPECIFICATION SECTION 23.01 FOR DUCT AND FITTINGS TYPICAL, DUCT ACCESSORIES & DUCT LABEL INFORMATION.
8. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND SHALL NOTIFY ARCHITECTS OF ANY DEVIATION FROM THAT INDICATED ON THE DRAWINGS OR SPECIFICATIONS.
9. DO NOT SCALE DRAWINGS FOR DIMENSIONS.
10. NO ITS AND DETAILS ON DRAWINGS WILL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL NOTES.
11. WHERE NOTES AND DETAILS ARE IN CONFLICT WITH SPECIFICATIONS, THE MOST STRINGENT SHALL GOVERN.
12. PROVIDE MANUAL VOLUME DAMPERS AS SHOWN.
13. AIR INTAKES SHALL BE LOCATED 18" MINIMUM FROM ANY EXHAUST TERMINATIONS, INCLUDING BUT NOT LIMITED TO GENERAL EXHAUST, RELIEF (SPRINKLER, FUSES, AND PLUMBING VENTS).
14. ALL OPENINGS AND VENTS LEFT BY THE REMOVAL OF EXISTING CONSTRUCTION EQUIPMENT, PIPING, DUCTS, ETC. SHALL BE PROPERLY PATCHED OR CLOSED OFF TO MAINTAIN FIRE RATING OF SURROUNDING WALL.
15. FOR HIGH TEMP EXHAUST MINIMUM REQUIREMENT SHALL BE TO PROVIDE INSULATED STAINLESS STEEL STACK FROM HOOK DUCT CONNECTION TO ROOF PENETRATION. ROOF PENETRATION SHALL BE INSULATED TUBULAR OR SIMILAR.
16. IF ACCIDENTAL INSULATING OR REFRACTORY INTERFERENCE IS REQUIRED FOR DUCTWORK SPECIFICATION, SIZE OF OUTER SHELL SHALL BE DETERMINED USING INTERNAL DIMENSIONS PLUS REQUIRED THICKNESS OF LINING.

KEYED NOTES



	24"x16" MPSA Duct		28.4 FT
	16"x24" MPSA Duct		4.2 FT
	12" Dia LPSA Duct		21.1 FT
	24" Dia LPSA Duct		24.8 FT
	18" Dia LPSA Duct		50.9 FT
	SDA-06, 10"x18" Face Size, 18" Dia Neck Size		8.0
	AUS-CA1-VAV-105-002: VAV Box, PRICE INDUSTRIES SDV		1.0
	20" Dia LPSA Duct		40.5 FT
	16" Dia LPSA Duct		50.3 FT
	SDA-06, 10"x18" Face Size		8.0
	18" Dia EXH Duct		26.9 FT
	26" Dia LPSA Duct		27.6 FT



MECHANICAL  
HVAC - SECOND  
MEZZANINE PLAN  
SECTOR A1

SHEET NUMBER  
AUS-B3-MH-103-A1-CA.1

DATE



PROJECT WITH NAME  
GIGA TEXAS

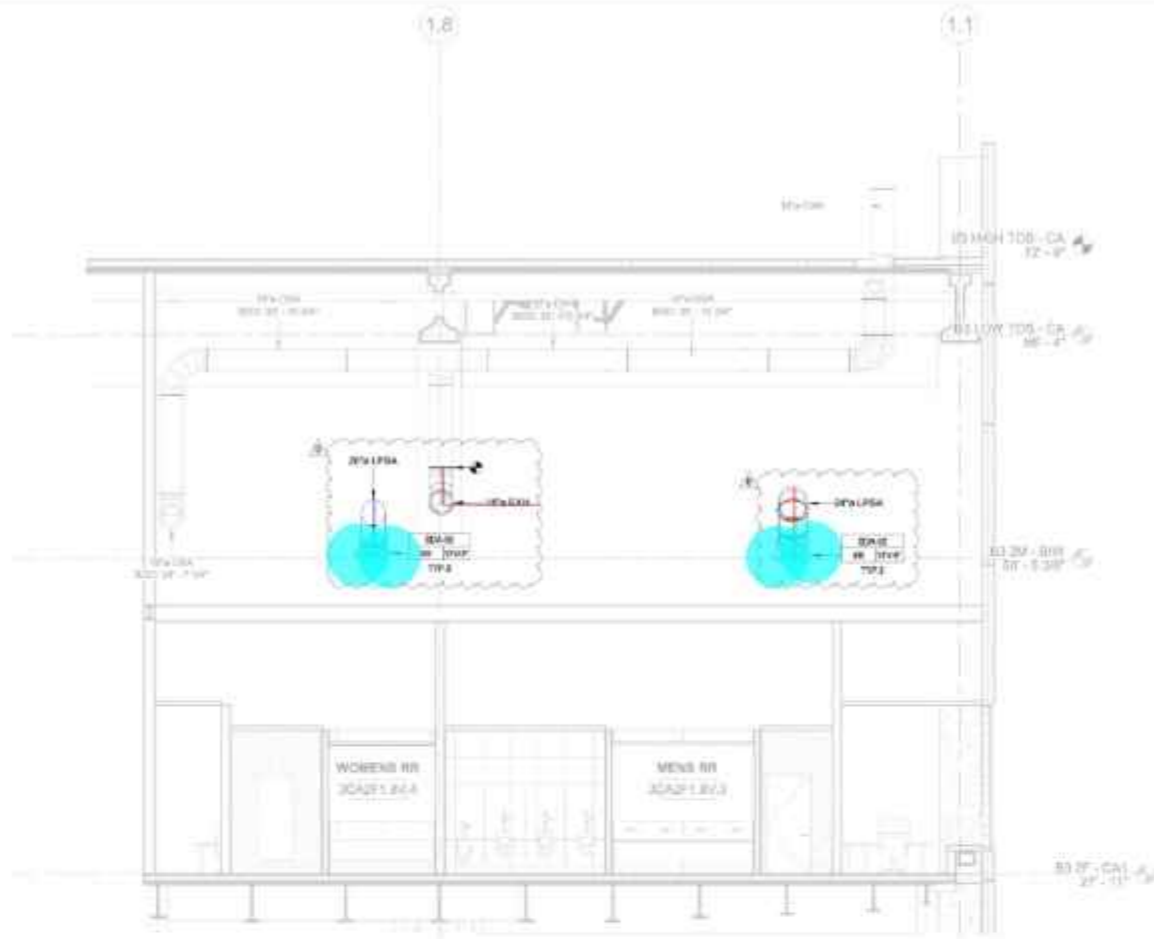
PROJECT TITLE  
CASTING 1

PROJECT NUMBER  
GFTX\_CA1\_01  
PROJECT ADDRESS  
1 Tesla Rd, Austin, TX 78725

CONFIDENTIAL

### GENERAL NOTES

1. ALL RISE ELEVATIONS ARE IN REFERENCE TO TOP OF FINISHED FLOOR.
2. FOR ALL ROUND DUCT MOUNTED DIFFUSERS ABOVE SHOP AISLES, MOUNT DIFFUSER ON DUCT IN BAYS OR IN LOW HORIZONTAL DRUM SINGLE ARCH/DOUBLE ARCH NOT BE USED TO ACHIEVE THE ANGLE.
3. DUCT SIZES INDICATED ARE NOMINAL DIMENSIONS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND SHALL NOTIFY ARCHITECT OF ANY DEVIATION FROM THAT INDICATED ON THE DRAWINGS OR SPECIFICATIONS. DO NOT SCALE DRAWINGS FOR DIMENSIONS.
4. NOTED AND TABLE D ON DRAWINGS WILL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL NOTES.
5. WHERE NOTES AND TABLES ARE IN CONFLICT WITH SPECIFICATIONS, THE MOST STRINGENT SHALL GOVERN.
6. PROVIDE FIRE STOPPING AT ALL PERIMETER SPACES, OPENINGS, PENETRATIONS ETC. IN FIRM RATIO PARTITIONS, FIRE RATED WALLS AND FIRM RATIO FLOORS. FIRESTOPPING AND/OR BRIMS SEPARATORS ARE REQUIRED. ALL PENETRATIONS THROUGH RATED WALL CONSTRUCTION ARE TO BE PROPERLY SEALED WITH AN APPROVED FIRE STOPPING MATERIAL.
7. CONTRACTOR TO COORDINATE ALL EXPOSED CONDUIT, PIPING ETC. RISES MUST BE ORGANIZED AS INDICATED ON THE DOCUMENTS. WHERE NOT INDICATED, THEY MUST FOLLOW THE MEY PATTERN.
8. CONTRACTOR SHALL VERIFY AND COORDINATE ALL GAB OPENINGS AND SHAFT SIZES AND LOCATIONS WITH BASE BUILDING ENGINEER OF RECORD.
9. CONTRACTOR TO PROVIDE STEEL JACKING PLATE OR STEEL TIMBER AT ALL WALLS TO SUPPORT WALL HEAVY TOOLS EQUIPMENT.
10. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO OWNERS OCCUPIED AREAS ADJACENT TO NEW CONSTRUCTION OR OCCUPIED AREAS WHERE VARIOUS SYSTEM CONNECTIONS OR EXTENSIONS ARE REQUIRED, AND IS RESPONSIBLE FOR DAMAGE.
11. ALL OPENINGS AND Voids LEFT BY THE REMOVAL OF EXISTING CONSTRUCTION EQUIPMENT PIPING, DUCTS, ETC. SHALL BE PROPERLY PATCHED OR CLOSED OFF TO MAINTAIN FIRE RATED OF BURCHARDING WALL.
12. COORDINATE LOCATIONS OF NEW WALL OPENINGS (TYPICAL) WITH ARCHITECTURAL FLOOR PLANS.
13. FOR HIGH TEMP DRUMS MINIMUM REQUIREMENT SHALL BE TO PROVIDE INSULATED STAINLESS STEEL STACK FROM TOOL-GATE CONNECTION TO ROOF PENETRATOR. ROOF PENETRATOR SHALL BE VENTILATED THIMBLE OR GASKET.
14. IF ACUSTICAL, INSULATING OR REFRACTORY INTERFERING IS REQUIRED PER DETERMINED USING

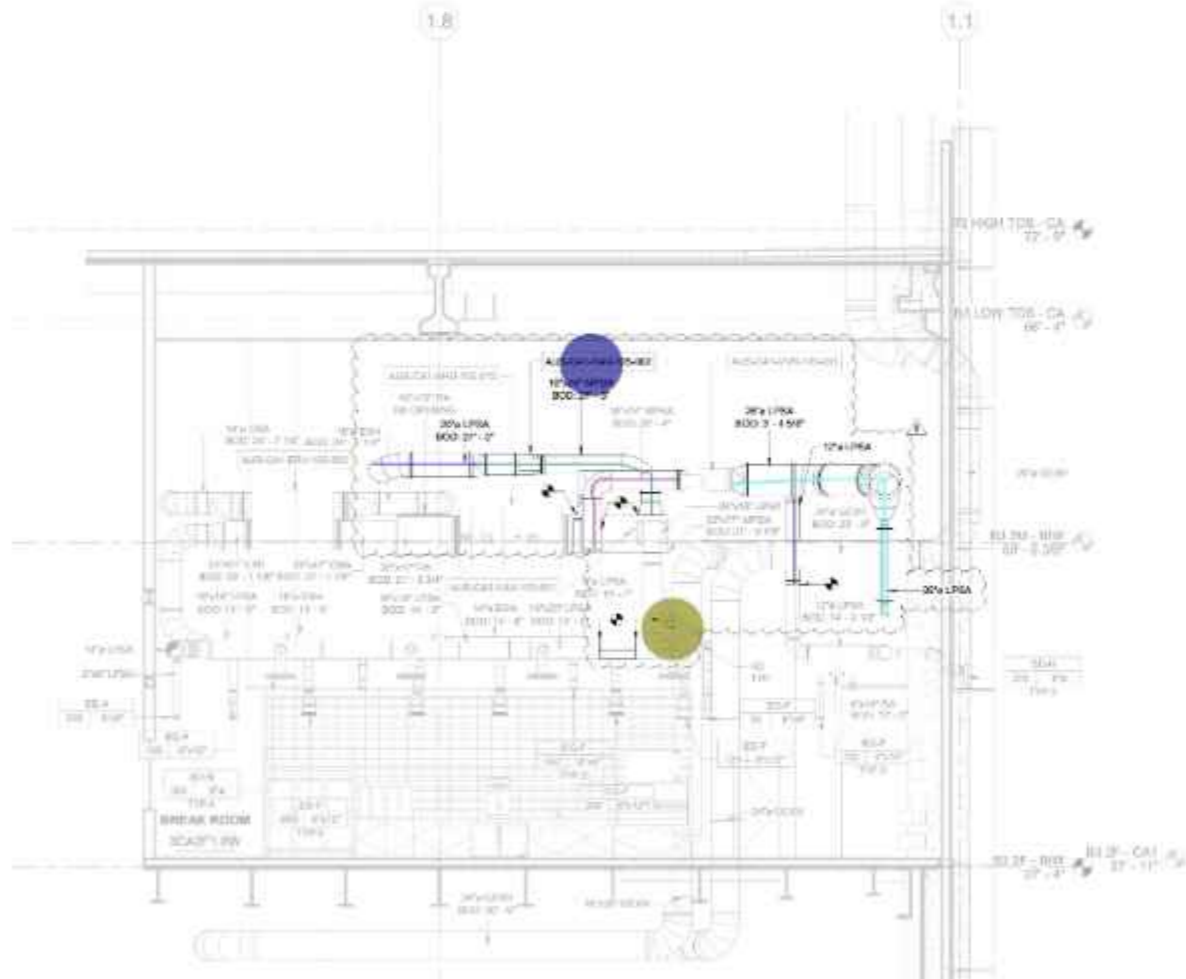


2 MECHANICAL SECTION - 2F CA1 - NORTH PEOPLE SPACES - WEST B

AUS-B3-MH-310-00-CA1 REF: AUS-B3-MH-101-A1-CA1 SCALE: 3/8"=1'-0"

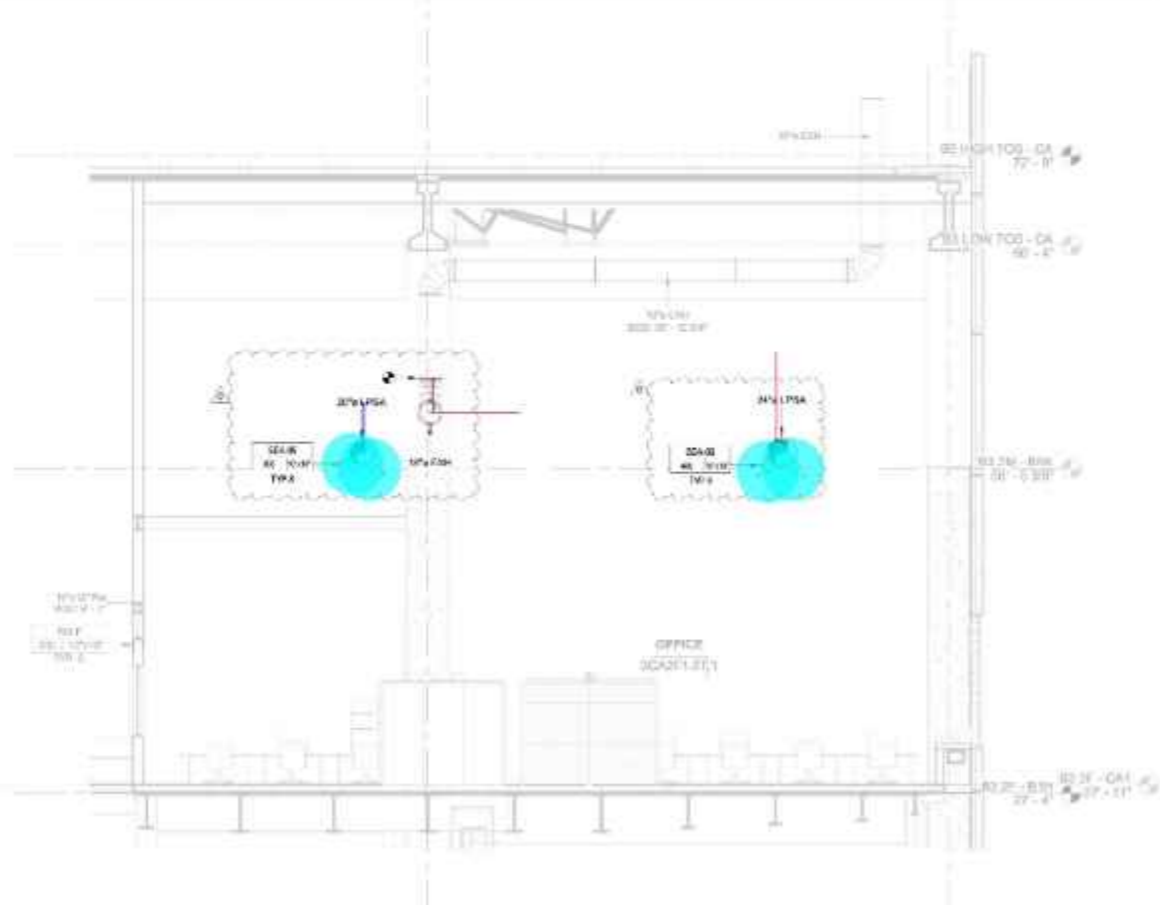
- 18" Dia EXH Duct
- 20" Dia LPSA Duct
- SDA-06, 10"x18" Face Size
- 24" Dia LPSA Duct
- 16"x20" LPSA Duct
- 8" Dia LPSA Duct
- 8" Dia VD
- AUS-CA1-VAV-105-002: VAV Box, PRICE INDU...
- 26" Dia LPSA Duct
- 12" Dia LPSA Duct
- 16"x24" MPSA Duct
- 24"x16" MPSA Duct

KEYED	HEIGHT
18.3 FT	
16.0 FT	
8.0	
11.8 FT	
2.6 FT	
1.1 FT	
1.0	
1.0	
20.8 FT	
6.2 FT	
14.9 FT	
11.0 FT	



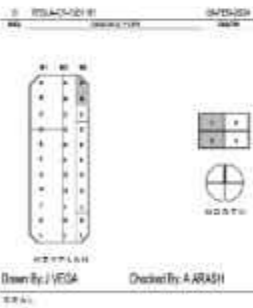
1 MECHANICAL SECTION - 2F CA1 - NORTH PEOPLE SPACES - WEST A

AUS-B3-MH-310-00-CA1 REF: AUS-B3-MH-101-A1-CA1 SCALE: 3/8"=1'-0"



3 MECHANICAL SECTION - 2F CA1 - NORTH PEOPLE SPACES - WEST C

AUS-B3-MH-310-00-CA1 REF: AUS-B3-MH-101-A1-CA1 SCALE: 3/8"=1'-0"



MECHANICAL SECTION VIEWS

PROJECT NUMBER  
AUS-B3-MH-310-00-CA.1

CONFIDENTIAL



GIGA TEXAS

PROJECT TOP  
CASTING 1

PROJECT NUMBER  
GFTX\_CA1\_01  
PROJECT ADDRESS  
1 Tesla Rd, Austin, TX 78725

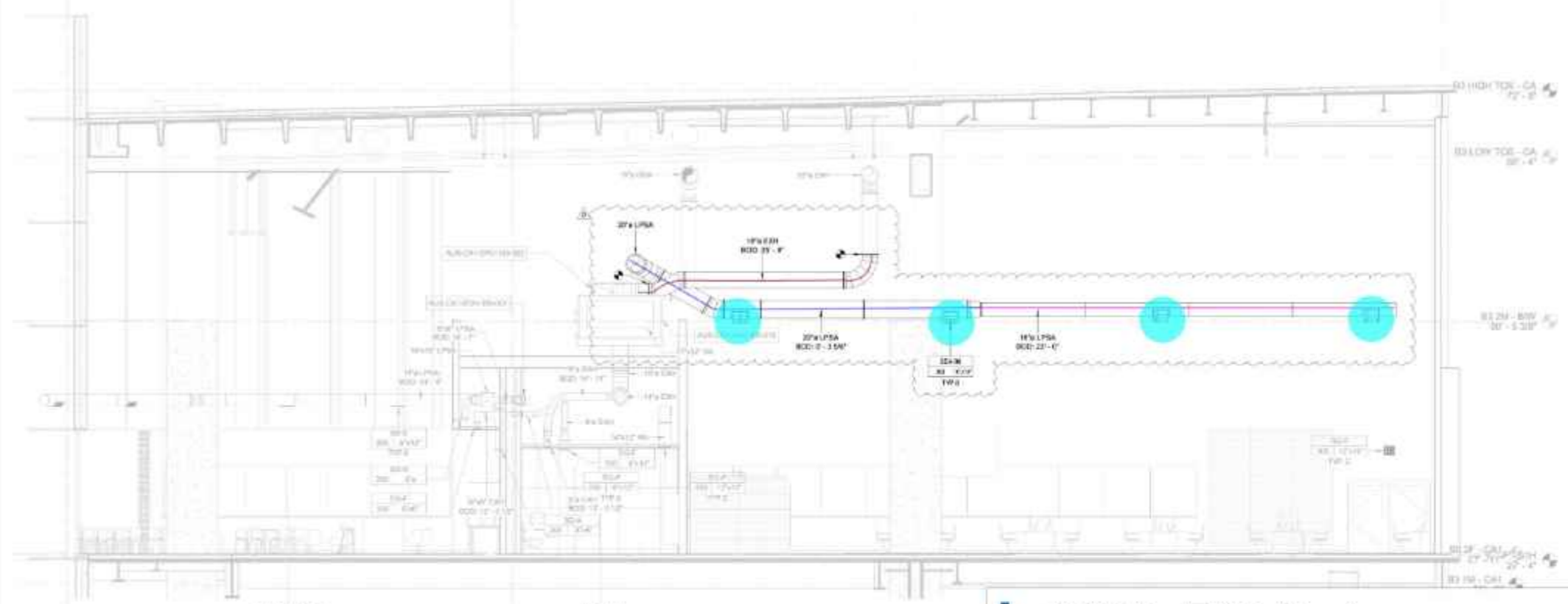
CONFIDENTIAL

### GENERAL NOTES

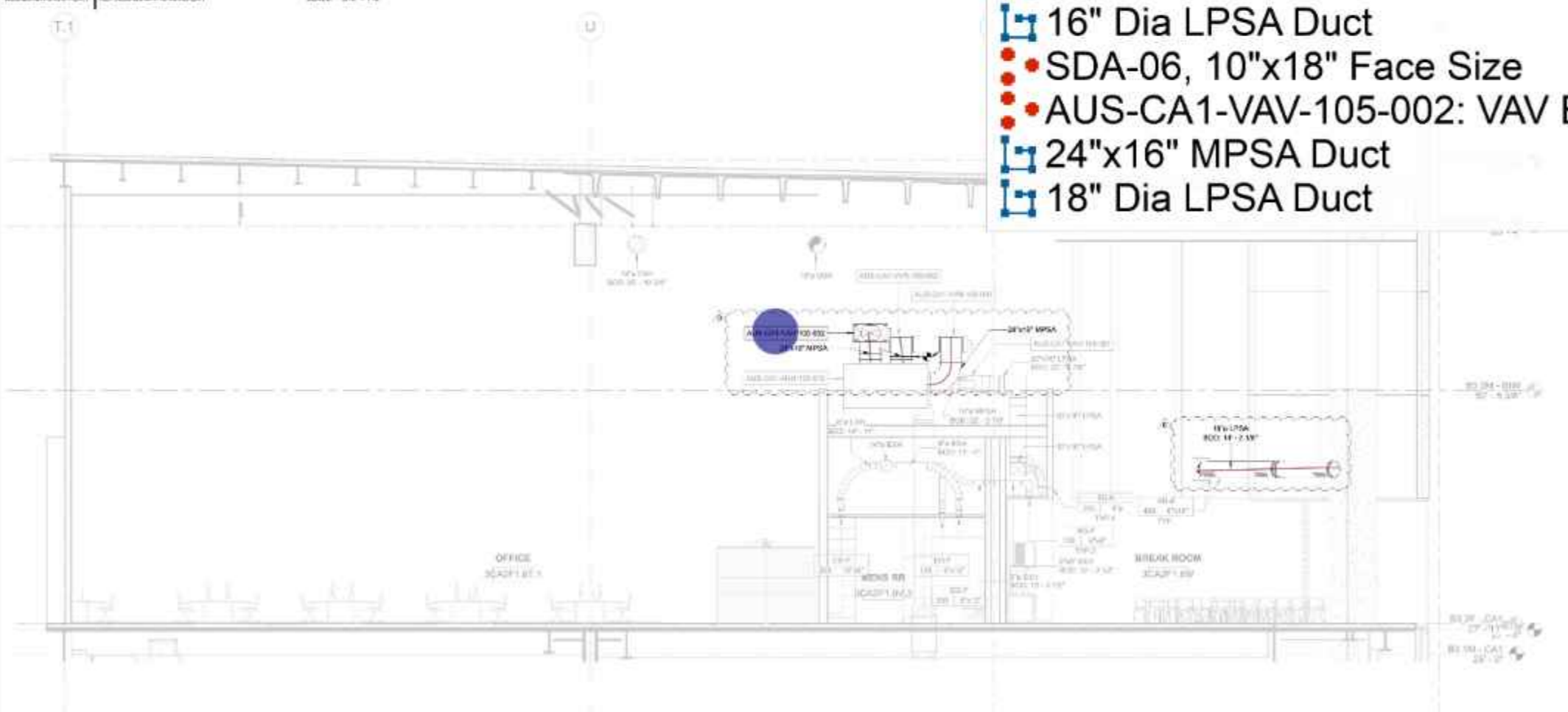
1. ALL RISE ELEVATIONS ARE IN REFERENCE TO TOP OF FINISHED FLOOR.
2. FOR ALL ROUND DUCT MOUNTED DIFFUSERS ABOVE DROP CEILING, MOUNT DIFFUSER ON DUCT IN CORNER BELOW HORIZONTAL. CURVE AND 2 BEHAVIOR SHALL NOT BE USED TO ACHIEVE THIS ANGLE.
3. DUCT SIZES INDICATED ARE INTERNAL DIMENSIONS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND SHALL NOTIFY ARCHITECT OF ANY DEVIATION FROM THAT INDICATED ON THE DRAWINGS OR SPECIFICATIONS.
4. DO NOT SCALE DRAWINGS FOR DIMENSIONS.
5. NOTES AND DETAILS OR DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL NOTES.
6. WHERE NOTES AND DETAILS ARE IN CONFLICT WITH SPECIFICATIONS, THE MOST STRINGENT SHALL GOVERN.
7. PROVIDE FIRE STOPPING AT ALL PERIMETER SPACES, OPENINGS, PENETRATIONS ETC. IN FIRE RATED PARTITIONS, FIRE RATED WALLS AND FIRE RATED FLOORS WHERE FIRE AND/OR SMOKE SEPARATION ARE REQUIRED. ALL PENETRATIONS THROUGH RATED WALL CONSTRUCTION ARE TO BE PROPERLY SEALED WITH AN APPROVED FIRE STOPPING MATERIAL.
8. CONTRACTOR TO COORDINATE ALL EXPOSED CONCRETE, PSMS ETC. RUNS MUST BE ORGANIZED AS INDICATED ON THE OCCUPANCY. WHERE NOT INDICATED, THEY MUST FOLLOW THE SET PATTERN.
9. CONTRACTOR SHALL VERIFY AND COORDINATE ALL SLAB OPENINGS AND SHAFT SIZES AND LOCATIONS WITH MADE BUILDING ENGINEER OR OTHER.
10. CONTRACTOR TO PROVIDE STEEL BACKING PLATES OR STEEL TRACKS AT ALL WALLS TO SUPPORT WALL MOUNTED EQUIPMENT.
11. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO OWNERS OCCUPIED AREAS ADJACENT TO NEW CONSTRUCTION OR OCCUPIED AREAS WHERE VARIOUS SYSTEM CONNECTIONS OR EXTENSIONS ARE REQUIRED, AND IS RESPONSIBLE FOR DAMAGE.
12. ALL OPENINGS AND VOIDS LEFT BY THE REMOVAL OF EXISTING CONSTRUCTION EQUIPMENT, PIPING, DUCTS, ETC. SHALL BE PROPERLY PATCHED OR CLOSED OFF TO MAINTAIN RISK RATING OF SURROUNDING WALL.
13. COORDINATE LOCATIONS OF NEW WALL OPENINGS (TYPICAL) WITH ARCHITECTURAL FLOOR PLANS.
14. FOR HIGH TEMP EXHAUST MEDIUM REQUIREMENT SHALL BE TO PROVIDE INSULATED STAINLESS STEEL STACK FROM TOOL CUT CONNECTION TO ROOF PENETRATION. ROOF PENETRATION SHALL BE VENTILATED THIMBLE OR SIMILAR.
15. IF ACOUSTICAL, INSULATING, OR RETRACTORY INTERIOR LINING IS REQUIRED FOR OUTDOOR SPECIFICATION, SIZE OF OUTER SHELL SHALL BE DETERMINED USING INTERNAL DIMENSIONS PLUS REQUIRED THICKNESS OF LINING.

### KEYED NOTES

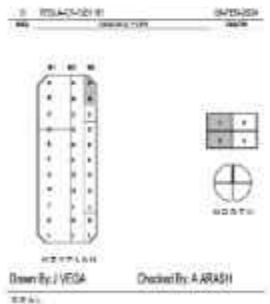
	18" Dia EXH Duct	24.4 FT
	20" Dia LPSA Duct	35.2 FT
	16" Dia LPSA Duct	44.5 FT
	SDA-06, 10"x18" Face Size	4.0
	AUS-CA1-VAV-105-002: VAV Box, PRICE INDUS...	1.0
	24"x16" MPSA Duct	11.5 FT
	18" Dia LPSA Duct	13.9 FT



2 MECHANICAL SECTION - 2F CA1 - NORTH PEOPLE SPACES - SOUTH



1 MECHANICAL SECTION - 2F CA1 - NORTH PEOPLE SPACES - NORTH



### MECHANICAL SECTION VIEWS

PROJECT NUMBER  
AUS-B3-MH-310-01-CA.1





PROJECT SITE NAME  
**GIGA TEXAS**

PROJECT TYPE  
**CASTING 1**

PROJECT NUMBER  
**GFTX\_CA1\_01**  
PROJECT ADDRESS  
**1 Tesla Rd Austin, TX 78725**

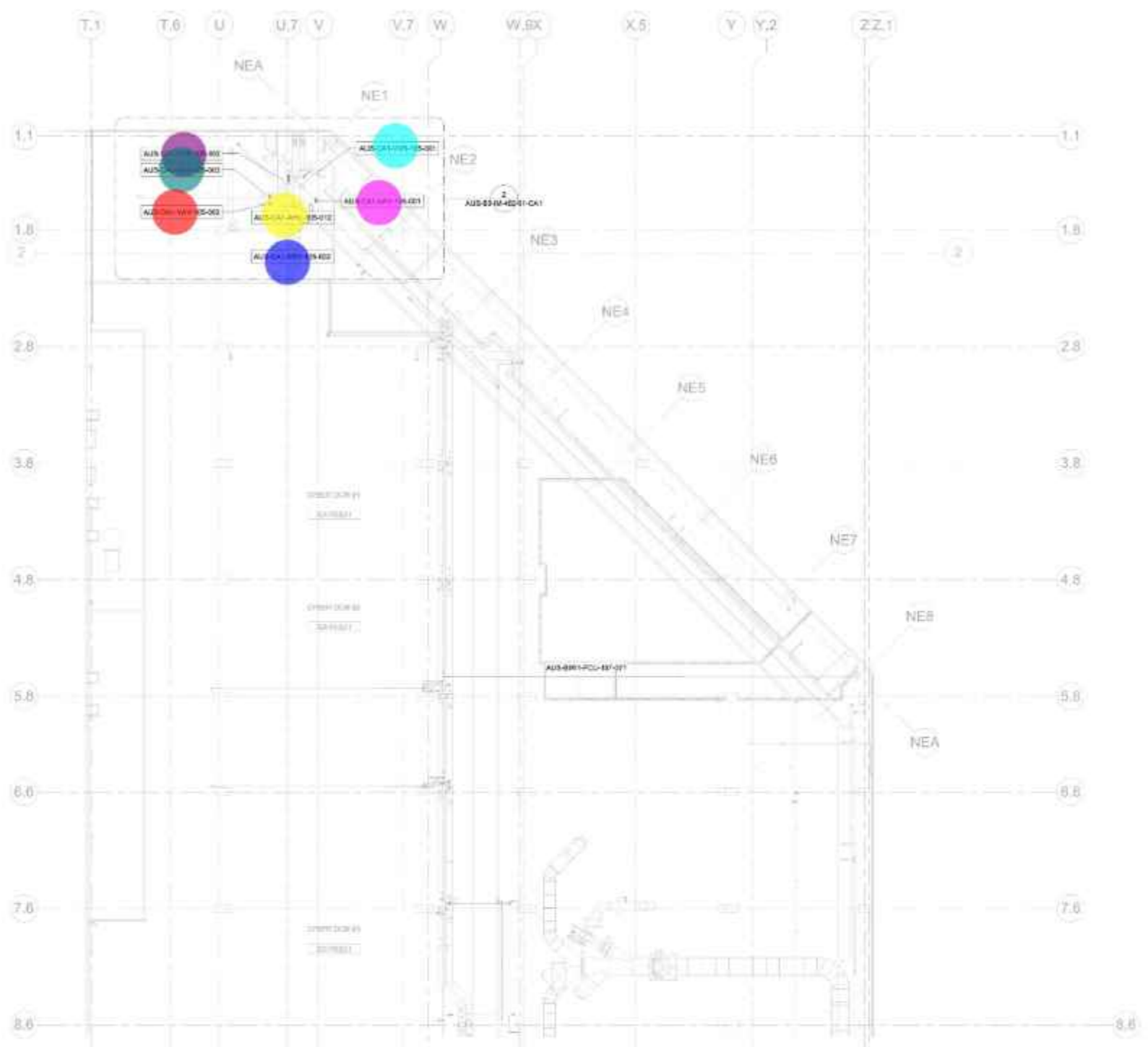
**CONFIDENTIAL**

**GENERAL NOTES**

- A. REVED NOTES AND DETAILS ON DRAWINGS WILL TAKE PRECEDENCE OVER GENERAL NOTES.
- B. WHERE NOTES AND DETAILS ARE IN CONFLICT WITH SPECIFICATIONS, THE MOST STRINGENT SHALL GOVERN.
- C. CONTRACTOR SHALL COORDINATE ROUTING AND MOUNTING OF ALL CONDUIT, CABLING, EQUIPMENT, ETC. WITH OTHER TRADES. CONDUIT RINGS SHALL BE GROUPED AND ORGANIZED TO MINIMIZE OCCUPIED SPACE.
- D. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO OWNERS OCCUPIED AREAS ADJACENT TO NEW CONSTRUCTION OR OCCUPIED AREAS WHERE VARIOUS SYSTEM CONNECTIONS OR EXTENSIONS ARE REQUIRED.
- E. TEMPORARY BARRICADES SHALL BE INSTALLED TO PREVENT POSSIBLE INJURY TO PERSONS IN AND AROUND CONSTRUCTION AREAS IN ACCORDANCE WITH OSHA REQUIREMENTS. COORDINATE WITH OWNER'S REPRESENTATIVE.
- F. ALL OPENINGS AND HOLES CREATED AS A RESULT OF CONTRACTOR'S PERSONNEL AND ERECTED TOWER SHALL BE PROPERLY PATCHED OR CEMENTED OFF TO MAINTAIN FIRE RATINGS OF SURROUNDING WALL AND MAINTAIN WEATHERPROOFING OF EXTERIOR WALLS & ROOFS.
- G. REMOVE DEBRIS IN A PROMPT AND ORDERLY FASHION AS NOT TO CREATE THE POSSIBILITY OF FIRE OR MISC INJURY.
- H. ALL R/C AND PIP ENCLOSURES SHALL BE MOUNTED WITH TOP OF ENCLOSURE AT 8' 0" P.F.F. UNLESS OTHERWISE NOTED.
- I. INSTALLING CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR ANY PANEL MOUNTED TO STRUCTURAL COLUMN. PANELS SHALL BE MOUNTED TO AN OPEN FACE OF THE STRUCTURAL MEMBER AND SHALL NOT USE THE SAME FACE AS CONDUIT CONTAINING LIGHTNING PROTECTION OR GROUND BUS.

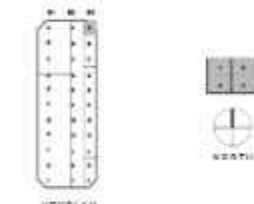
**REFERENCE DRAWINGS**

**ELECTRICAL CLASSIFICATION DRAWINGS**  
 1ST FLOOR AUS-B3-102-101-00  
 2ND FLOOR AUS-B3-102-101-00  
 3RD FLOOR AUS-B3-102-101-00  
 3RD FLOOR AUS-B3-102-101-00



• AUS-CA1-VVR-105-002	1.0	●
• AUS-CA1-VAV-105-003	1.0	●
• AUS-CA1-VAV-105-002	1.0	●
• AUS-CA1-AHU-105-012	1.0	●
• AUS-CA1-ERV-105-002	1.0	●
• AUS-CA1-VAV-105-001	1.0	●
• AUS-CA1-VVR-105-001	1.0	●

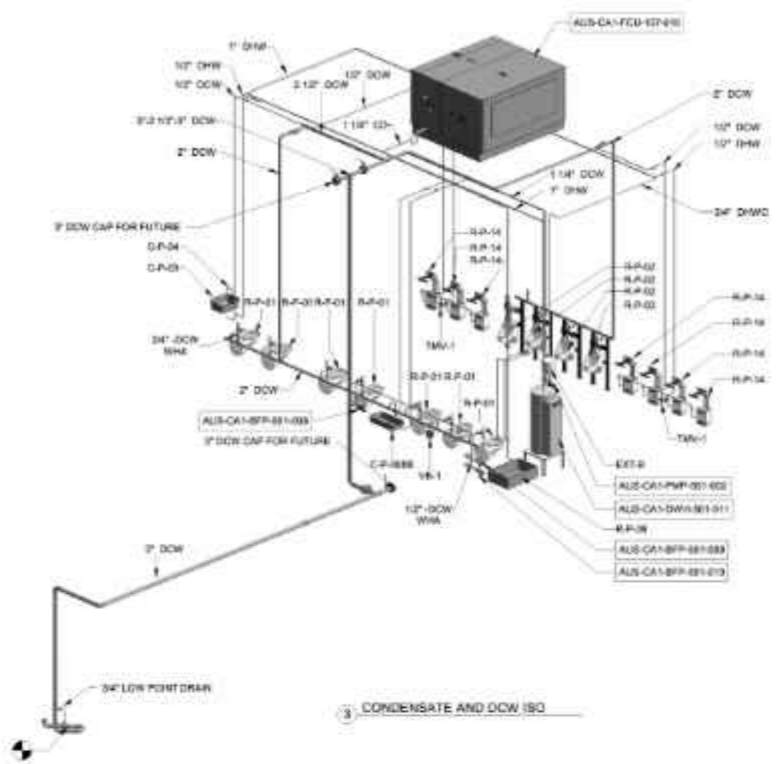
SCALE: 1/8" = 1'-0"



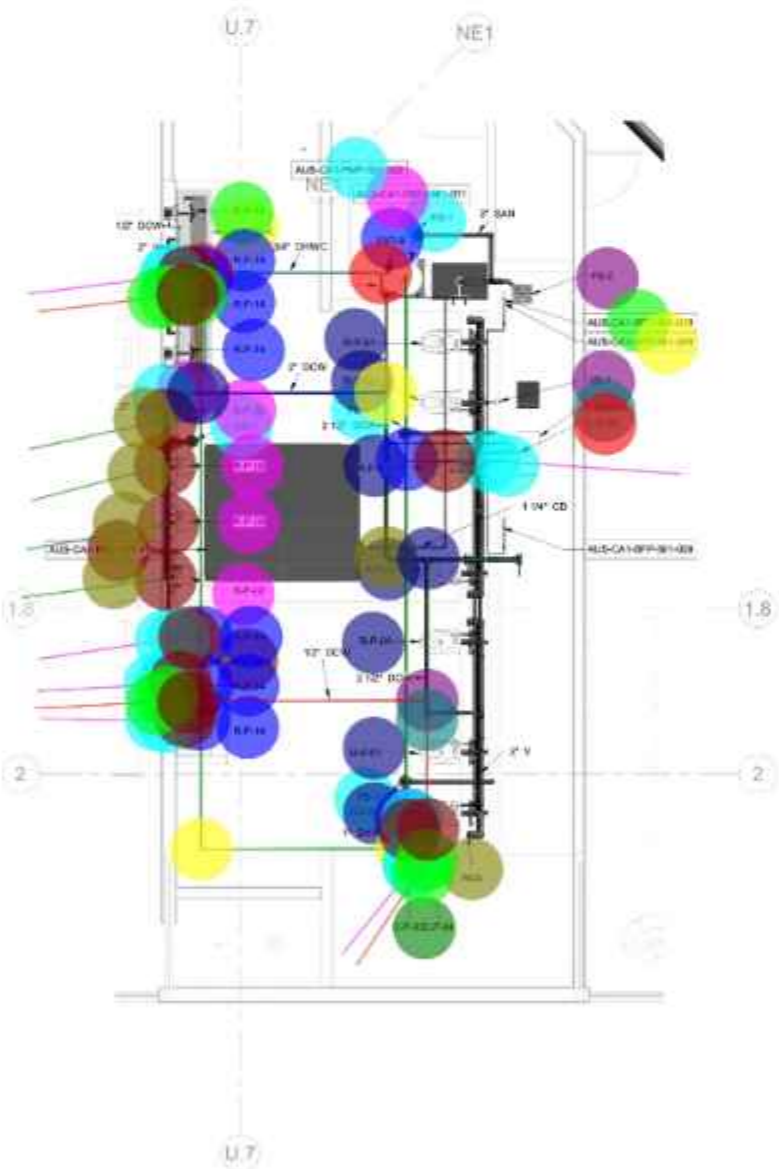
Drawn By: LR Checked By: NP

SHEET TITLE  
**Instrumentation  
Mechanical Controls -  
Second Floor  
Mezzanine Plan -  
Sector A - Overall**

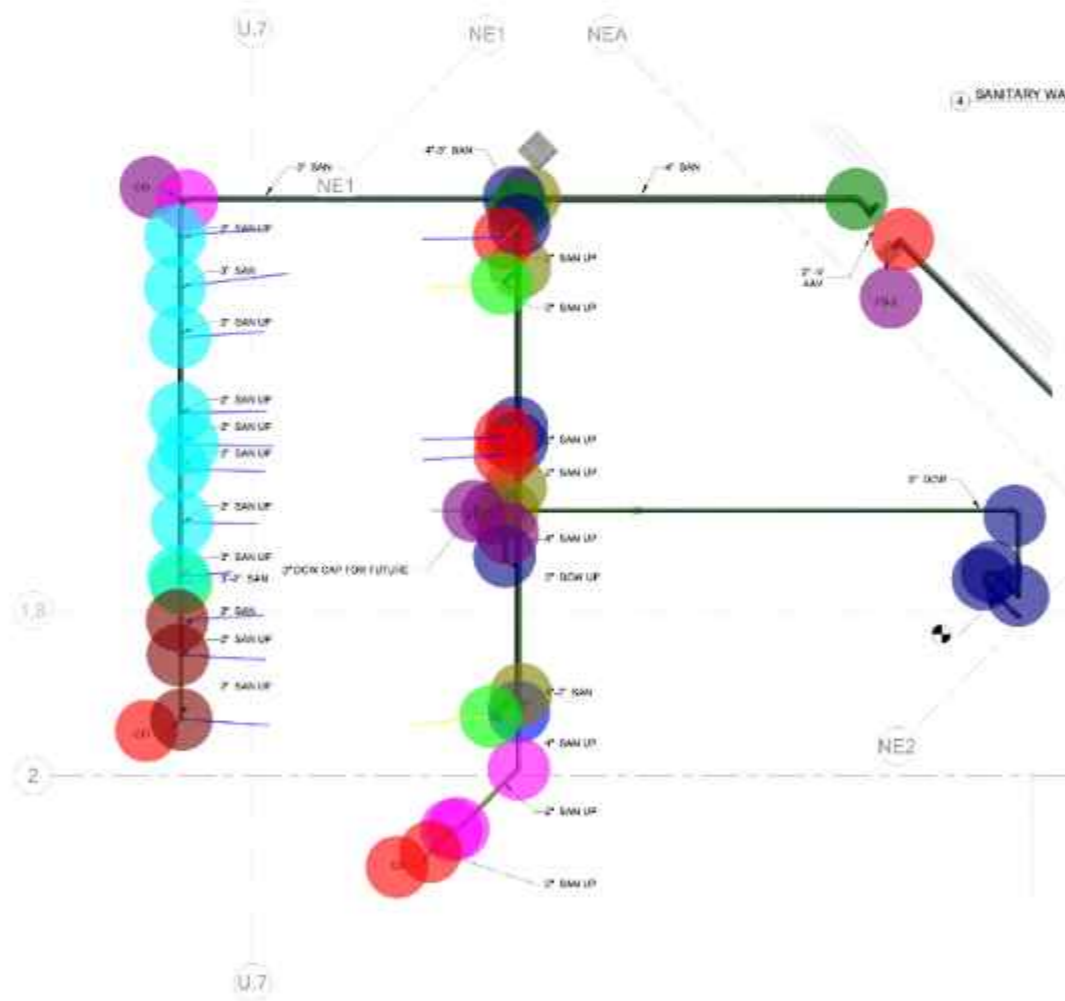
SHEET NUMBER  
**AUS-B3-IM-102M-A0-CA1**



CONDENSATE AND DCW ISG



PLUMBING SECOND FLOOR LAYOUT AD-Catout 1  
1/4" = 1'-0"



PLUMBING FIRST FLOOR OVERHEAD LAYOUT AD-Catout 2  
1/4" = 1'-0"



- 3" Dia FS-2
- BG 3" Dia S Pipe
- BG 3" Dia S Pipe 90 Deg Elbow
- R-P-14
- R-P-05-4
- R-P-14
- R-P-02
- 3" Dia FD-1
- R-P-05-3
- C-P-03C-P-04
- 2" Dia WCO
- R-P-01
- VB-1
- C-P-008B
- C-P-04
- AUS-CA1-BFP-501-010
- AUS-CA1-BFP-501-009
- EXT-9
- AUS-CA1-DWH-501-011
- AUS-CA1-PMP-501-002
- AUS-CA1-FCU-107-010
- BG 4" Dia S Pipe
- BG 4" Dia S Pipe Wye
- BG 4" / 3" Dia S Pipe Reducer
- 3" Dia CO
- BG 3" Dia S Pipe
- 2" Dia CO
- BG 3" / 2" Dia S Pipe Reducer
- BG 2" Dia S Pipe
- BG 4" / 2" Dia S Pipe Reducer
- BG 2" Dia S Pipe 45 Deg Elbow
- bg 4" Dia S Pipe 45 Deg Elbow
- BG 4" / 3" Dia S Pipe Wye
- BG 4" / 2" Dia S Pipe Wye
- BG 4" Dia S Pipe 90 Deg Elbow
- 4" Dia S Pipe
- BG 2" Dia S Pipe 90 Deg Elbow
- BG 3" Dia S Pipe 90 Deg Elbow
- 3" Dia S Pipe
- 2" Dia S Pipe
- BG 3" Dia S Pipe Wye
- BG 3" / 2" Dia S Pipe Wye
- BG 2" Dia S Pipe Wye
- BG 3" Dia CW Pipe
- BG 3" Dia CW Pipe Tee
- BG 3" Dia CW Pipe 90 Deg Elbow
- 3" Dia Shut-off Valve
- 3/4" Dia HWR Pipe
- 3/4" Dia HWR Pipe 90 Deg Elbow
- 1" Dia HW Pipe
- 1" Dia HW Pipe 90 Deg Elbow
- 1" / 1/2" Dia HW Pipe Tee
- 1/2" Dia HW Pipe
- 1/2" Dia HW Pipe 90 Deg Elbow
- 1/2" Dia Shut-off Valve
- 2-1/2" Dia CW Pipe
- 2-1/2" Dia CW Pipe 90 Deg Elbow
- 2-1/2" Dia CW Pipe Tee
- 2-1/2" / 1/2" Dia CW Pipe Tee
- 2-1/2" / 1/2" Dia CW Pipe Reducer
- 1/2" Dia CW Pipe
- 1/2" Dia CW Pipe 90 Deg Elbow
- 2-1/2" / 2" Dia CW Pipe Tee
- 2" Dia CW Pipe
- 2" Dia Ball Valve
- 2" Dia CW Pipe 90 Deg Elbow
- 2" / 3/4" Dia CW Pipe Tee
- 3/4" Dia CW Pipe
- 3/4" Dia CW Pipe 90 Deg Elbow
- 2" / 1/2" Dia CW Pipe Tee

16.1 FT

48.8 FT

38.8 FT

19.7 FT

3.3 FT

8.0 FT

63.1 FT

39.8 FT

10.9 FT

72.1 FT

58.8 FT

24.6 FT

48.9 FT

21.7 FT

30.3 FT

1.0

ESQUECA

IG ED PLANS

0-05-CA1



PROJECT SITE NAME  
GIGA TEXAS

PROJECT TITLE  
CASTING 1

PROJECT NUMBER  
GFTX\_CA1\_01

PROJECT ADDRESS  
1 Tesla Road, Austin, TX 78725

CONFIDENTIAL

### GENERAL NOTES

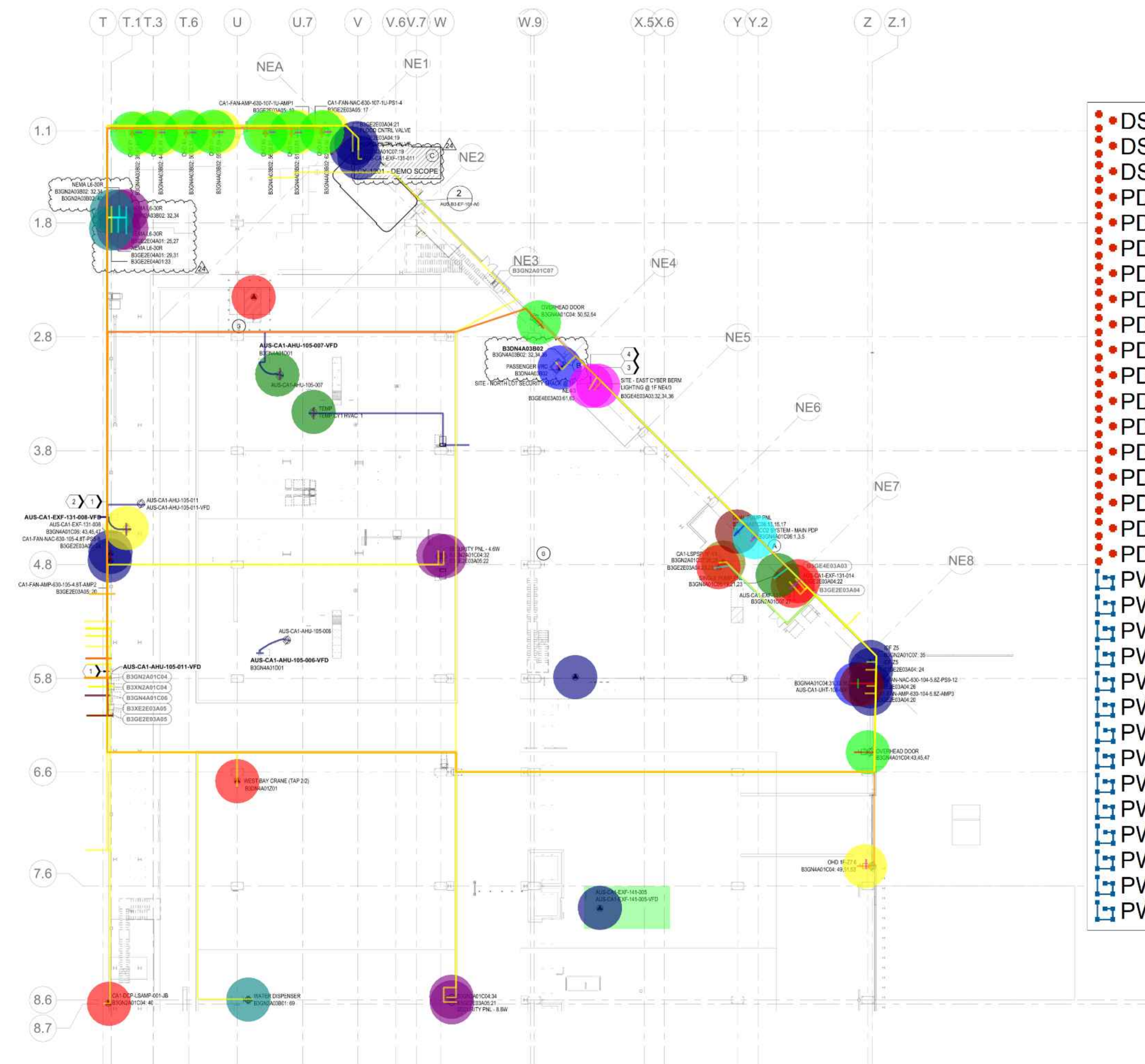
- FOR LEGEND, ABBREVIATIONS, GENERAL NOTES, EQUIPMENT, CONDUIT SIZES, AND DEVICE NAMING NOMENCLATURE REFER TO DRAWING AUS-E-010.
- FOR ELECTRICAL EQUIPMENT DETAILS REFER TO DRAWINGS AUS-E-503.
- FIELD COORDINATE FINAL LOCATION OF DISCONNECTS AND VFDs AND CONFIRM LOCATION WITH OWNER PRIOR TO INSTALL.
- REFER TO "EZ" SERIES DRAWINGS FOR AREA CLASSIFICATIONS, HIGH TEMPERATURE ZONES, AND MATERIAL RESTRICTIONS.
- REFER TO TELECOM DRAWINGS FOR LOCATIONS TO INSTALL EMPTY CONDUIT FOR DATA DROPS. COORDINATE EXACT CONDUIT ROUTING PATHS AND SIZE WITH TELECOM CONTRACTOR.

### KEYED NOTES

- MOUNT SMALL VFDs (HEIGHT <=5FT) AT 5FT TO THE MIDDLE OF THE SCREEN FROM FINISH FLOOR.
- CONTRACTOR TO INSTALL MINIMUM SIZE CABLES 3-#4, 1-#8 FROM VFD TO MOTOR.
- CIRCUIT CONTINUES THROUGH STUPLIPS, RUNS THROUGH THE NORTH LOT AND IN TO THE EAST CYBER BERM. FOR CIRCUIT CONNECTIONS AND DETAILS SEE SITE DRAWING AUS-S1-EL-003-00.
- FOR REFERENCE AND DOWNSTREAM CIRCUIT INFORMATION, SEE DRAWINGS AUS-S1-E-6E03-A1 AND AUS-S1-EF-433-00.

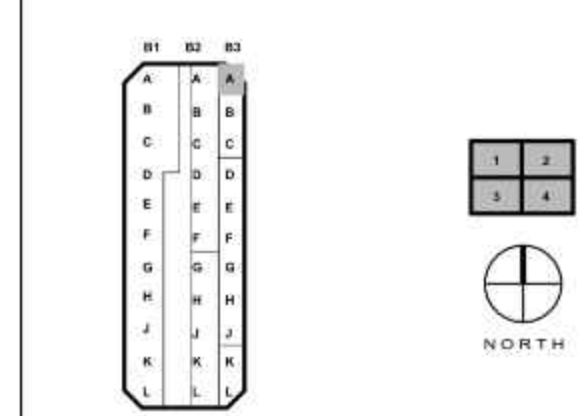
### CONSTRUCTION NOTES - AUS-B3-EF-101-A0

- TESLA ELECTRICAL CONTRACTOR SHALL INSTALL POWER FEEDS TO THREE (3) MAIN POWER DISTRIBUTION PANELS SUPPLIED BY CO2 SYSTEM VENDOR. ALL CABLING DOWNSTREAM OF THESE PANELS SHALL BE SUPPLIED & INSTALLED BY CO2 SYSTEM VENDOR. CONTRACTOR SHALL FIELD VERIFY LOCATION OF VENDOR PANELS BEFORE INSTALLING POWER FEEDERS.
- CONTRACTOR TO FURNISH AND INSTALL ONE (1) 600V 3PH, 30A, NON-FUSED DISCONNECT SWITCH, NEMA 1, FROM THE LOAD SIDE OF THE DISCONNECT FURNISH AND INSTALLED 3-#10, 1-#10 IN LIQUID TIGHT FLEXIBLE CONDUIT TO THE VRC CONTROL PANEL.
- EXISTING ELECTRICAL OUTLETS, CONDUIT AND WIRING TO DEVICES IN THIS AREA TO BE DEMOLISHED BACK TO SOURCE PANEL AND MADE SAFE.
- FINAL LOCATION FOR OUTLETS TO BE COORDINATED WITH NETWORKING DRAWINGS. OUTLETS FOR IDF RACK. UTILIZE EXISTING GROUND BUS BAR @ 1F T1:1 FOR IDF GROUNDING.



• DS, 20A/3P FUSIBLE DISCONNECT SWITCH, NEM...	8.0 EA	Yellow
• DS, 30A/3P FUSIBLE DISCONNECT SWITCH, NEM...	2.0 EA	Green
• DS, 30A/3P, NF, DISCONNECT SWITCH, NEMA 1	2.0 EA	Blue
• PD, 20A/1P, MOTOR RATED SWITCH, NEMA 1	2.0 EA	Red
• PD, 20A/1P, SPECIAL PURPOSE RECEPTACLE, ...	11.0 EA	Dark Blue
• PD, 20A/2P, SPECIAL PURPOSE RECEPTACLE, N...	1.0 EA	Olive
• PD, 20A/3P, SPECIAL PURPOSE RECEPTACLE, N...	7.0 EA	Light Green
• PD, 30A/2P SPECIAL PURPOSE RECEPTACLE, N...	4.0 EA	Red
• PD, 30A/2P, SPECIAL PURPOSE RECEPTACLE, N...	4.0 EA	Purple
• PD, 30A/3P, SPECIAL PURPOSE RECEPTACLE, N...	1.0 EA	Brown
• PD, 50A/3P, SPECIAL PURPOSE RECEPTACLE, N...	1.0 EA	Dark Green
• PD, 80A/3P, SPECIAL PURPOSE RECEPTACLE, N...	1.0 EA	Dark Red
• PD, 90A/3P, MOTOR RATED SWITCH, NEMA 1	1.0 EA	Yellow
• PD, 90A/3P, SPECIAL PURPOSE RECEPTACLE, N...	1.0 EA	Cyan
• PD, DUPLEX RECEPTACLE	4.0 EA	Purple
• PD, JUNCTION BOX	2.0 EA	Pink
• PD, MOTOR RATED SWITCH	2.0 EA	Green
• PD, QUAD RECEPTACLE, WALL MOUNTED	3.0 EA	Dark Green
• PW, 2#8, 1#10, 3/4"C EMT - H	1294.2 FT	Cyan
• PW, 3#2, 1#8, 1-1/4"C EMT	514.2 FT	Pink
• PW, 3#3, 1#8, 1-1/4"C EMT	524.3 FT	Blue
• PW, 3#4, 1#8, 1-1/4"C EMT	355.3 FT	Dark Blue
• PW, 3#4, 1#8, 1-1/4"C FMC	15.0 FT	Purple
• PW, 3#6, 1#10, 1-1/4"C EMT	499.3 FT	Cyan
• PW, 3#8, 1#10, 1"C EMT - H	1209.9 FT	Red
• PW, 3#8, 1#10, 1"C FMC	10.0 FT	Light Green
• PW, 3#10, 3/4"C EMT - H	7271.9 FT	Yellow
• PW, 3#10, 3/4"C FMC	9.1 FT	Pink
• PW, 3#12, 3/4"C EMT - H	163.9 FT	Brown
• PW, 4#12, 3/4"C EMT - B	71.9 FT	Light Green
• PW, 4#12, 3/4"C EMT - H	2836.0 FT	Orange
• PW, 4#12, 3/4"C FMC	25.0 FT	Pink

NO.	REQUIRED FOR	DATE
24	CY-1201	25-Oct-2023
23	TESLA DCRT-020011 R5	02-Oct-2023
22	TESLA RFI-007550	22-Sep-2023
21	TESLA DCRT-021322 R3	17-Aug-2023
20	CY-1218	30-Jun-2023
19	TESLA DCRT-020210 R3	25-May-2023
18	TESLA DCRT-021225	08-May-2023
17	TESLA DCRT-021322 R2	01-May-2023
16	TESLA RFI-005365	12-Apr-2023
15	TESLA DCRT-021195	07-Apr-2023
14	TESLA DCRT-020086 R11	07-Apr-2023
13	TESLA RFI-004529	30-Mar-2023
12	TESLA RFI-004687	27-Feb-2023
11	TESLA RFI-003204	12-Sep-2022
10	TI-0006 R1	29-Jul-2022



Drawn By: LT  
Checked By: ON

SEAL

AMIR BEHRAMAND  
138602  
LICENSED ELECTRICAL ENGINEER  
TESTA FIRM NO. F-15337

SHEET TITLE  
**B3 - ELECTRICAL - FACILITY POWER PLAN - SECTOR A0**

SHEET NUMBER  
AUS-B3-EF-101-A0

1 | B3 - 1F - SECTOR A0  
AUS-B3-EF-101-A0 REF:ASM-7 SCALE: 3/64" = 1'-0"

2 | CA-A0 RESTROOMS  
AUS-B3-EF-101-A0 REF:AUS-B3-EF-101-A0 SCALE: 3/16" = 1'-0"



PROJECT SITE NAME  
**GIGA TEXAS**

PROJECT TITLE  
**CASTING 1**

PROJECT NUMBER  
**GFTX\_CA1\_01**

PROJECT ADDRESS  
1 Tesla Road, Austin, TX 78725

**CONFIDENTIAL**

### GENERAL NOTES

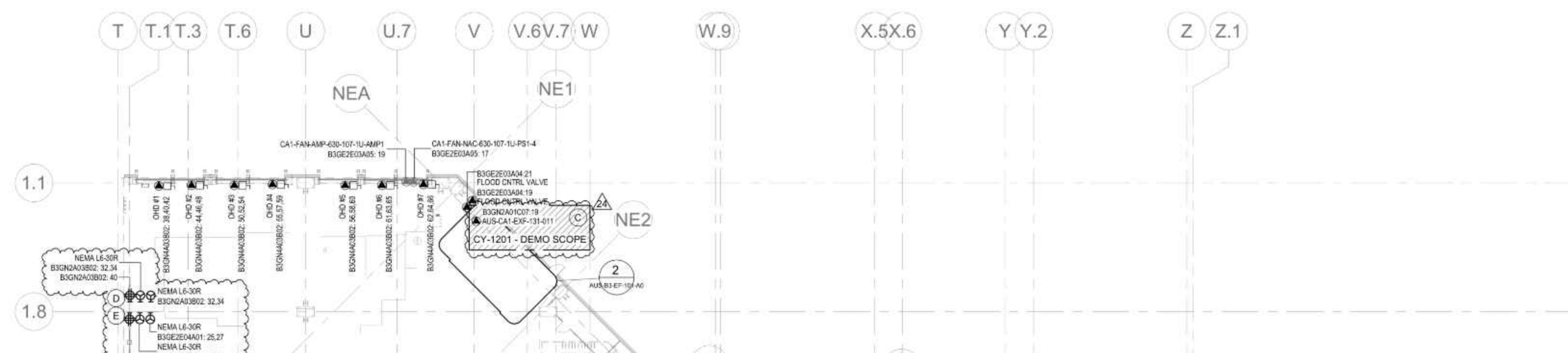
- FOR LEGEND, ABBREVIATIONS, GENERAL NOTES, EQUIPMENT, CONDUIT SIZES, AND DEVICE NAMING NOMENCLATURE REFER TO DRAWING AUS-E-010.
- FOR ELECTRICAL EQUIPMENT DETAILS REFER TO DRAWINGS AUS-E-503.
- FIELD COORDINATE FINAL LOCATION OF DISCONNECTS AND VFDs AND CONFIRM LOCATION WITH OWNER PRIOR TO INSTALL.
- REFER TO "EZ" SERIES DRAWINGS FOR AREA CLASSIFICATIONS, HIGH TEMPERATURE ZONES, AND MATERIAL RESTRICTIONS.
- REFER TO TELECOM DRAWINGS FOR LOCATIONS TO INSTALL EMPTY CONDUIT FOR DATA DROPS. COORDINATE EXACT CONDUIT ROUTING PATHS AND SIZE WITH TELECOM CONTRACTOR.

### KEYED NOTES

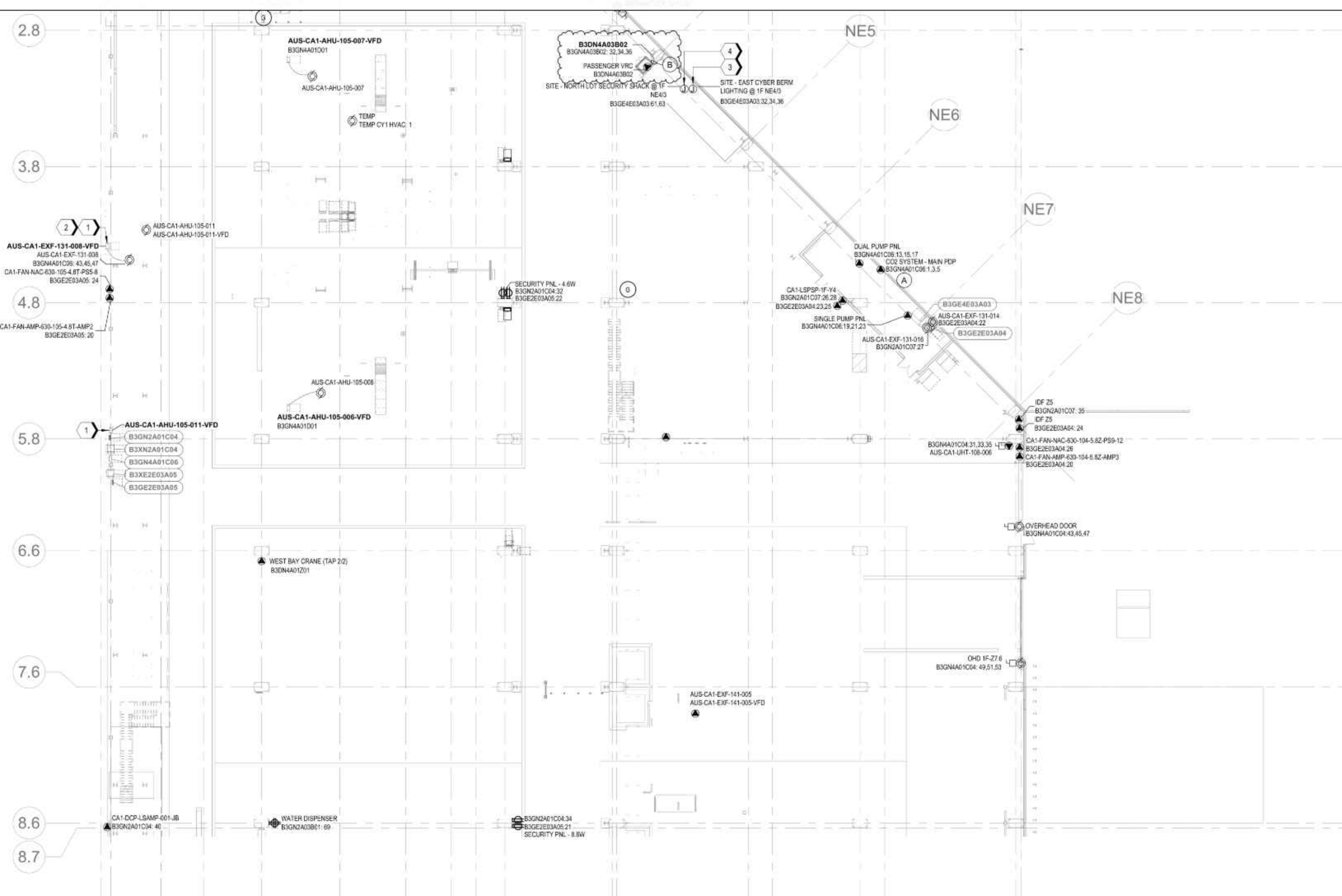
- MOUNT SMALL VFDs (HEIGHT <=5FT) AT 5FT TO THE MIDDLE OF THE SCREEN FROM FINISH FLOOR.
- CONTRACTOR TO INSTALL MINIMUM SIZE CABLES 3-#4, 1-#8 FROM VFD TO MOTOR.
- CIRCUIT CONTINUES THROUGH STUPLIPS, RUNS THROUGH THE NORTH LOT AND IN TO THE EAST CYBER BERM. FOR CIRCUIT CONNECTIONS AND DETAILS SEE SITE DRAWING AUS-S1-EL-003-00.
- FOR REFERENCE AND DOWNSTREAM CIRCUIT INFORMATION, SEE DRAWINGS AUS-S1-E-6E03-A1 AND AUS-S1-EF-433-00.

### CONSTRUCTION NOTES - AUS-B3-EF-101-A0

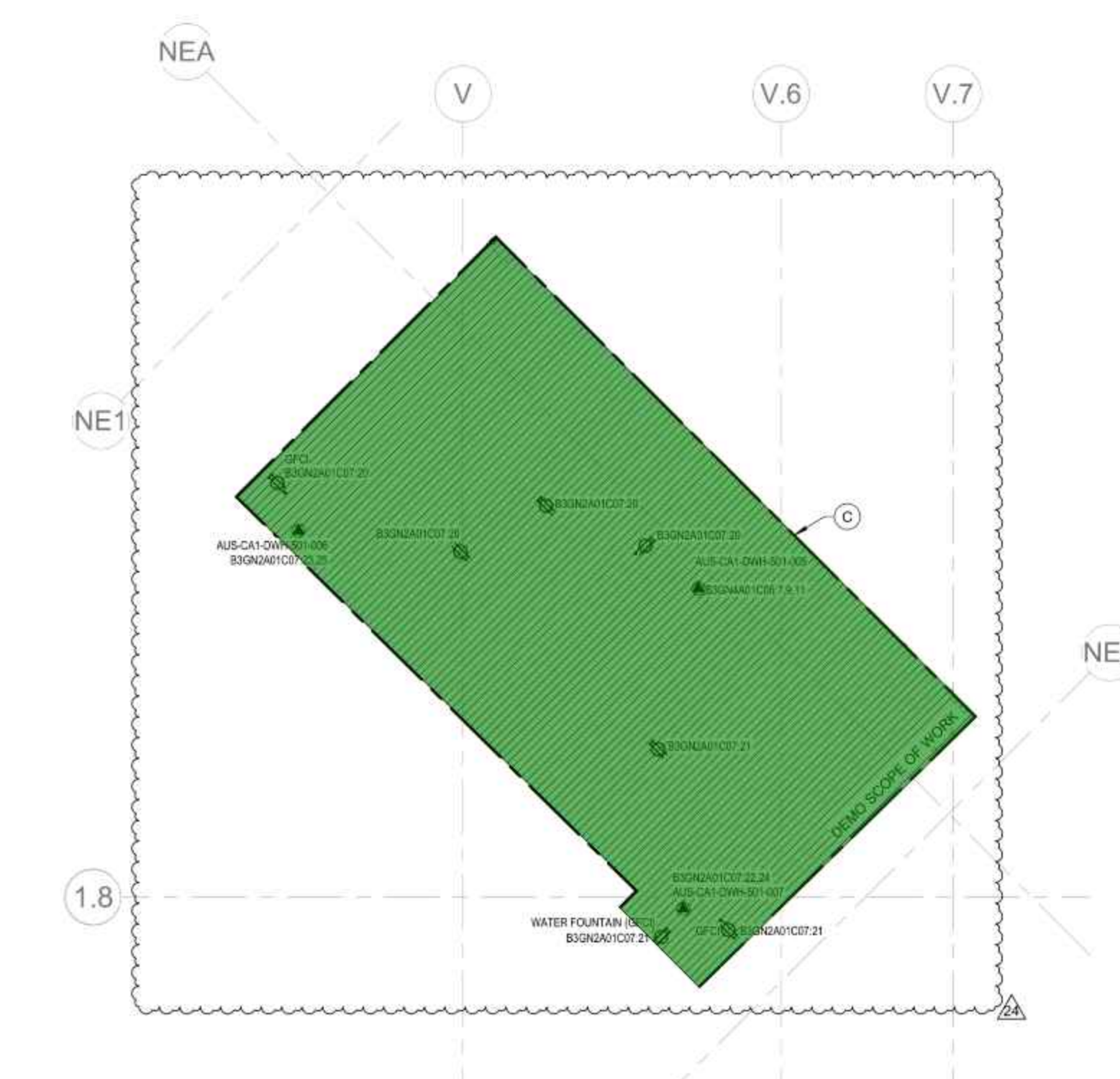
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- CONTRACTOR TO FURNISH AND INSTALL ONE (1) 600V 3PH, 30A, NON-FUSED DISCONNECT SWITCH, NEMA 1, FROM THE LOAD SIDE OF THE DISCONNECT FURNISH AND INSTALLED 3-#10, 1-#10 IN LIQUID TIGHT FLEXIBLE CONDUIT TO THE VRC CONTROL PANEL.
- EXISTING ELECTRICAL OUTLETS, CONDUIT AND WIRING TO DEVICES IN THIS AREA TO BE DEMOLISHED BACK TO SOURCE PANEL AND MADE SAFE.
- FINAL LOCATION FOR OUTLETS TO BE COORDINATED WITH NETWORKING DRAWINGS. OUTLETS FOR IDF RACK.
- UTILIZE EXISTING GROUND BUS BAR @ 1F T1:1 FOR IDF GROUNDING.



**DEMO, REEMOVAL OF ELECTRICAL OUTLETS, DEVICES IN THIS AREA WIRING AND CONDUITS BACK TO SOURCE ... 2320.5 SQ FT**

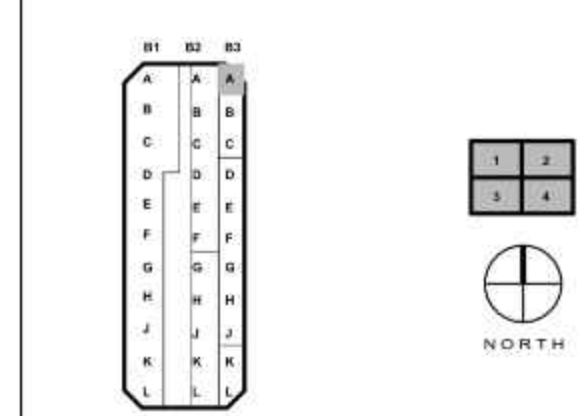


1 | **B3 - 1F - SECTOR A0**  
AUS-B3-EF-101-A0 REF:ASM-7 SCALE: 3/64" = 1'-0"



2 | **CA-A0 RESTROOMS**  
AUS-B3-EF-101-A0 REF:AUS-B3-EF-101-A0 SCALE: 3/16" = 1'-0"

24	CY-1201	25-Oct-2023
23	TESLA DCRT-020011 R5	02-Oct-2023
22	TESLA RF-007550	23-Sep-2023
21	TESLA DCRT-01322 R3	17-Aug-2023
20	CY-1218	30-Jun-2023
19	TESLA DCRT-020210 R3	25-May-2023
18	TESLA DCRT-021225	05-May-2023
17	TESLA DCRT-01322 R2	04-May-2023
16	TESLA RF-005365	12-Apr-2023
15	TESLA DCRT-007195	07-Apr-2023
14	TESLA DCRT-020086 R11	07-Apr-2023
13	TESLA RF-004029	30-Mar-2023
12	TESLA RF-004687	27-Feb-2023
11	TESLA RF-003204	12-Sep-2022
10	TH-0006 R1	28-Jul-2022



Drawn By: LT  
Checked By: ON  
SEAL  
  
AMIR BEHARMAND  
138602  
LICENSED PROFESSIONAL ENGINEER  
STATE OF TEXAS  
Tesla Firm No. F-15337

SHEET TITLE  
**B3 - ELECTRICAL - FACILITY POWER PLAN - SECTOR A0**

SHEET NUMBER  
**AUS-B3-EF-101-A0**



PROJECT SITE NAME  
**GIGA TEXAS**

PROJECT TITLE  
**CASTING 1**

PROJECT NUMBER  
**GFTX\_CA1\_01**  
PROJECT ADDRESS  
1 Tesla Road, Austin, TX 78725

**CONFIDENTIAL**

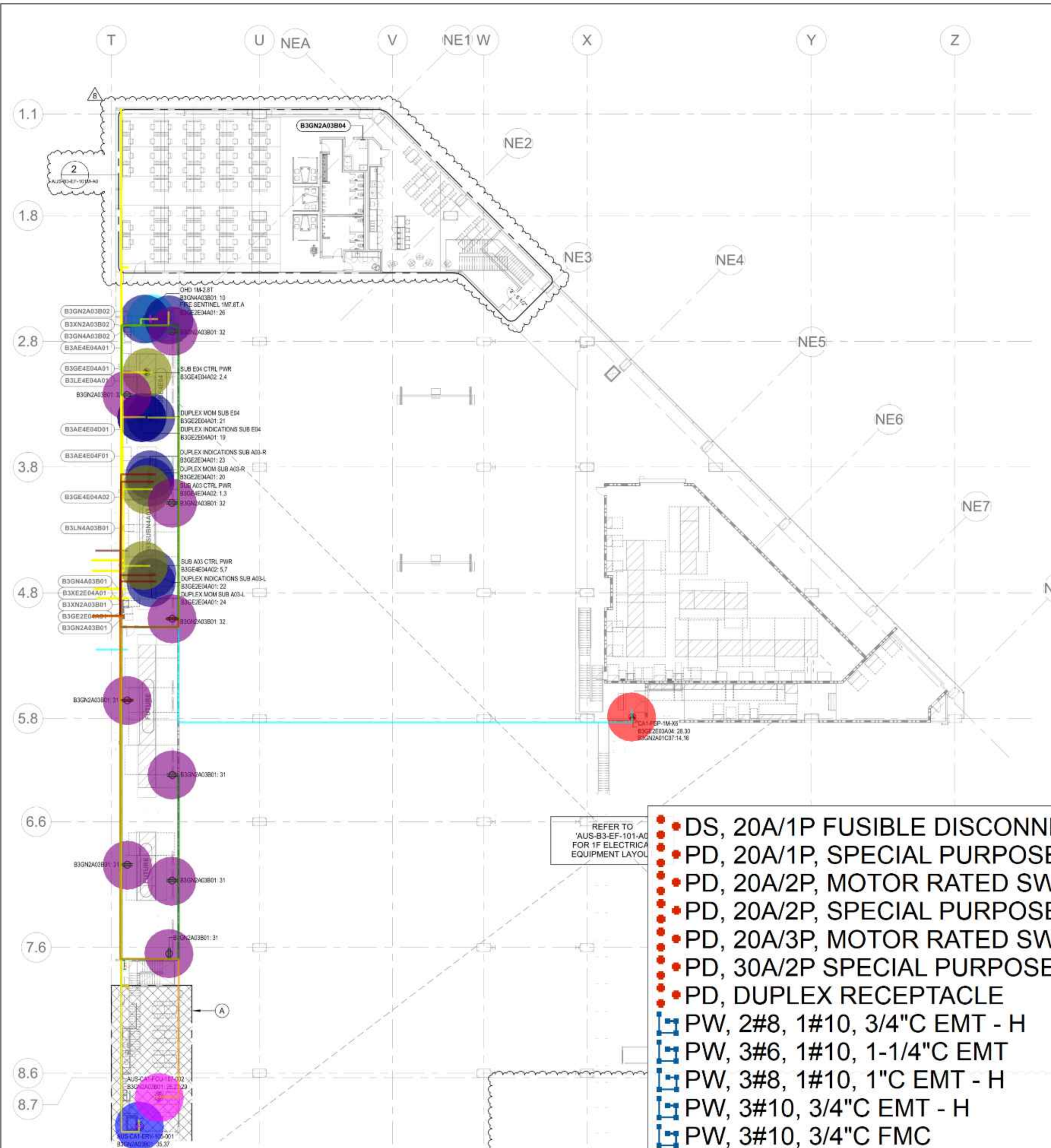
### GENERAL NOTES

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- FOR ELECTRICAL EQUIPMENT DETAILS REFER TO DRAWINGS AUS-E-503.
- FIELD COORDINATE FINAL LOCATION OF DISCONNECTS AND VFDs AND CONFIRM LOCATION WITH OWNER PRIOR TO INSTALL.
- REFER TO 'E2' SERIES DRAWINGS FOR AREA CLASSIFICATIONS, HIGH TEMPERATURE ZONES, AND MATERIAL RESTRICTIONS.
- FOR MECHANICAL LOADS 100HP AND ABOVE PROVIDE 1000V ARMORED SHIELDED FLEXIBLE MOTOR SUPPLY XLPE LOAD SIDE VFD CABLING. FOR LOADS LESS THAN 100HP PROVIDE 1000V FLEXIBLE MOTOR SUPPLY XLPE LOAD SIDE VFD CABLING.
- REFER TO TELECOM DRAWINGS FOR LOCATIONS TO INSTALL EMPTY CONDUIT FOR DATA DROPS. COORDINATE EXACT CONDUIT ROUTING PATHS AND SIZE WITH TELECOM CONTRACTOR.

### KEYED NOTES

### CONSTRUCTION NOTES - AUS-B3-EF-101M-A0

- SCOPE OF WORK IN HATCHED AREA ON HOLD.
- POWER FOR STUB UP CONDUIT TO MICROVAIVE, APPROXIMATE LOCATION ON PLANS. FIELD COORDINATE PRIOR TO ROUGH-IN FOR TWO (2) 3/4-INCH EMT CONDUITS. PROVIDE FIRE RATED FLOOR JUNCTION BOX AND TRANSITION TO MC CABLE FROM JUNCTION BOX TO EACH OUTLET LOCATION.
- ALL OUTLETS AGAINST WALL TO HAVE BLACK COVER PLATES.
- PRIOR TO ROUGH-IN OF ELECTRICAL OUTLETS, COORDINATE TV LOCATION AND HEIGHT WITH ARCHITECTURAL DRAWINGS.
- 'EDH' LOCATED ABOVE MOTHER ROOM CEILING SPACE. FINAL LOCATION TO BE COORDINATED PRIOR TO ELECTRICAL ROUGH-IN.
- VFD PLACED ON TOP OF WALKABLE HARDLID.
- ELECTRICAL CONNECTIONS FOR MECHANICAL UNITS ON TOP OF WALKABLE HARDLID. PRIOR TO ELECTRICAL ROUGH-INS COORDINATE WITH MECHANICAL FOR PLACEMENT.
- INSTALL TESLA FURNISHED LEGRAND 40FNPT3 POKE-THRU TRANSITION (3 1/8" CORE DRILL). ROUTE POWER FROM 1" CEILING SPACE INTO 40FNPT3 CHANNEL SURFACE RACEWAY WITH ALL ACCESSORIES AS NEEDED TO ALLOW FOR POWER RUNS TO OPEN OFFICE DESKS. RACEWAY PATH AS INDICATED ON DRAWING. LENGTH OF RACEWAY TO BE FIELD COORDINATED WITH FURNITURE PRIOR TO INSTALL.
- INSTALL TESLA FURNISHED 1 X 1" (LEGRAND 411442-E) AND 1 X BLACK 2-GANG DUPLEX/DECORA RECEPTACLE PLATE (LEGRAND #80746-E) WITHIN #40FNPT3 2-GANG BOX IN LEGRAND OFR RACEWAY SYSTEM LINEUP. DATA DROPS BY COMMUNICATIONS CONTRACTOR. TYPICAL.



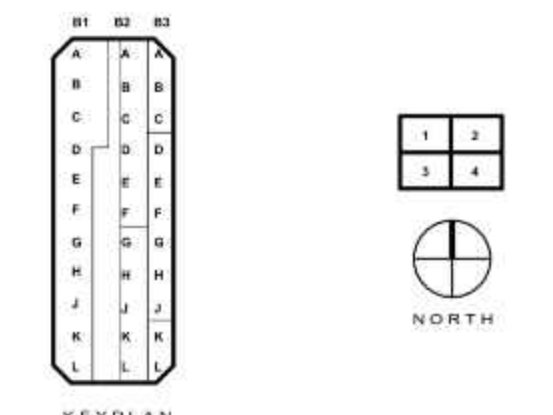
• DS, 20A/1P FUSIBLE DISCONNECT SWIICH, NEMA 1	1.0 EA
• PD, 20A/1P, SPECIAL PURPOSE RECEPTACLE, NEMA 5-20R	9.0 EA
• PD, 20A/2P, MOTOR RATED SWITCH, NEMA 1	1.0 EA
• PD, 20A/2P, SPECIAL PURPOSE RECEPTACLE, NEMA 5-20R	3.0 EA
• PD, 20A/3P, MOTOR RATED SWITCH, NEMA 1	1.0 EA
• PD, 30A/2P SPECIAL PURPOSE RECEPTACLE, NEMA 6-30R (ASSUMED)	1.0 EA
• PD, DUPLEX RECEPTACLE	9.0 EA
┌ PW, 2#8, 1#10, 3/4"C EMT - H	253.1 FT
┌ PW, 3#6, 1#10, 1-1/4"C EMT	358.5 FT
┌ PW, 3#8, 1#10, 1"C EMT - H	303.2 FT
┌ PW, 3#10, 3/4"C EMT - H	5515.0 FT
┌ PW, 3#10, 3/4"C FMC	6.0 FT
┌ PW, 3#12, 3/4"C EMT - B	402.8 FT
┌ PW, 3#12, 3/4"C EMT - H	332.2 FT
┌ PW, 4#12, 3/4"C EMT - H	221.5 FT
┌ PW, 4#12, 3/4"C FMC	3.0 FT
• Z, TESLA FURNISHED 1 X BLACK DUPLEX RECEPTACLE OUTLET (LEVITON #80746-E)	1.0 EA

1 | B3-EF-101M-A0  
AUS-B3-EF-101M-A0 SCALE: 3/64" = 1'-0"

3 | 1FM - ENLARGED FACILITIES POWER - HVAC PEOPLE SPACE  
AUS-B3-EF-101M-A0 SCALE: 3/32" = 1'-0"

2 | 1FM ENLARGED FACILITIES POWER PLAN - PEOPLE SPACE  
AUS-B3-EF-101M-A0 SCALE: 3/32" = 1'-0"

8	CH-1201	25-Oct-2023
7	TESLA-RFI-002720	29-Sep-2023
6	TESLA-DCRT-002210 R4	23-Aug-2023
5	CY-1208 R2	22-Aug-2023
4	TESLA-DCRT-002210 R3	20-May-2023
3	TESLA-DCRT-002008 R11	07-Apr-2023
2	TESLA-RFI-004287	04-Jan-2023
1	CYT-DCRT-000086 R3	01-Dec-2022
0	CYT-DCRT-000086 R3	08-Nov-2022



Drawn By: D.Nojuman Checked By: A.Berahmand



SHEET TITLE  
**B3 - ELECTRICAL -  
1FM FACILITY  
POWER PLAN -  
SECTOR A0**

SHEET NUMBER  
**AUS-B3-EF-101M-A0**



PROJECT SITE NAME  
GIGA TEXAS

PROJECT TITLE  
CASTING 1

PROJECT NUMBER  
GFTX\_CA1\_01  
PROJECT ADDRESS  
1 Tesla Road, Austin, TX 78725

CONFIDENTIAL

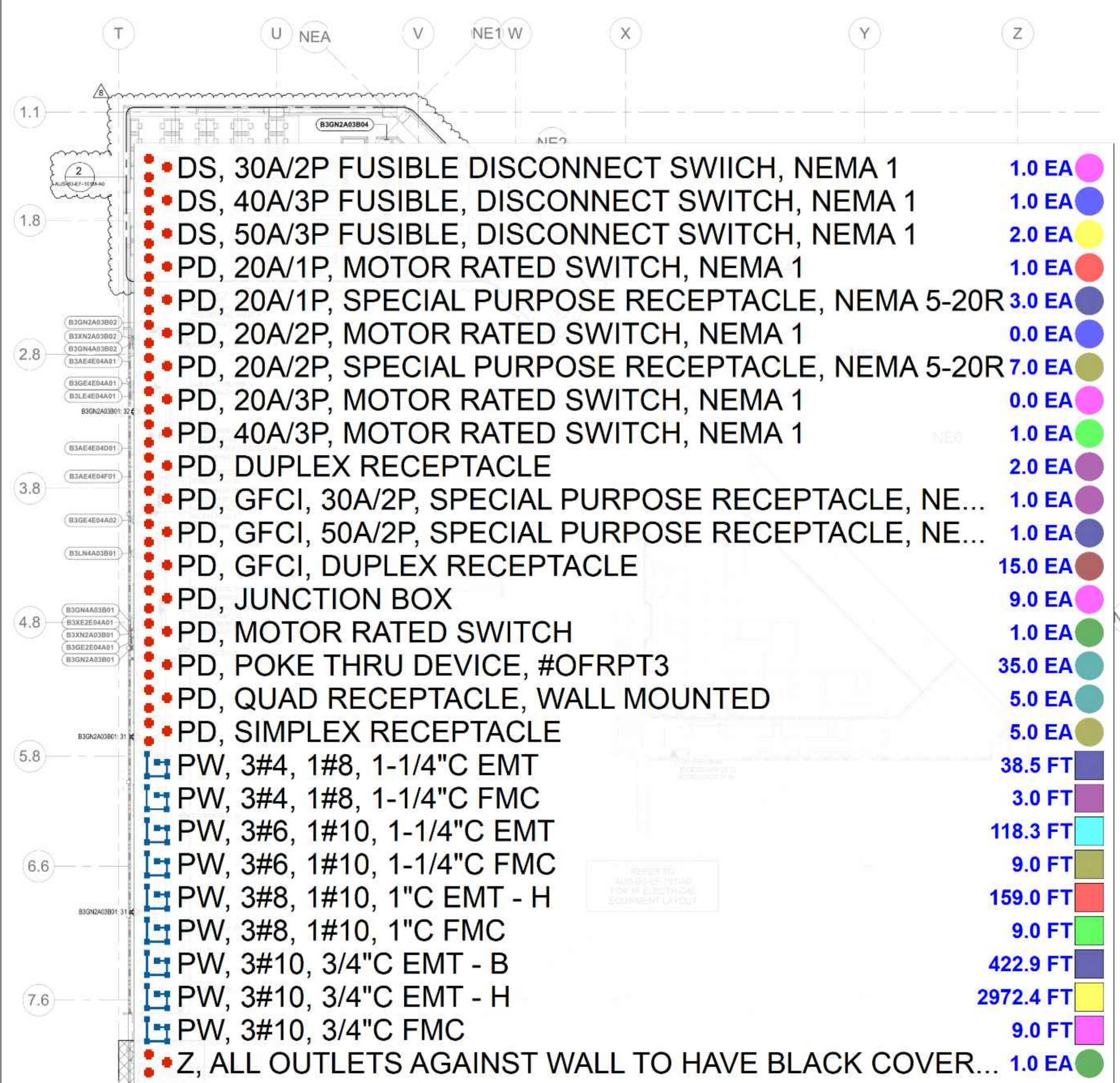
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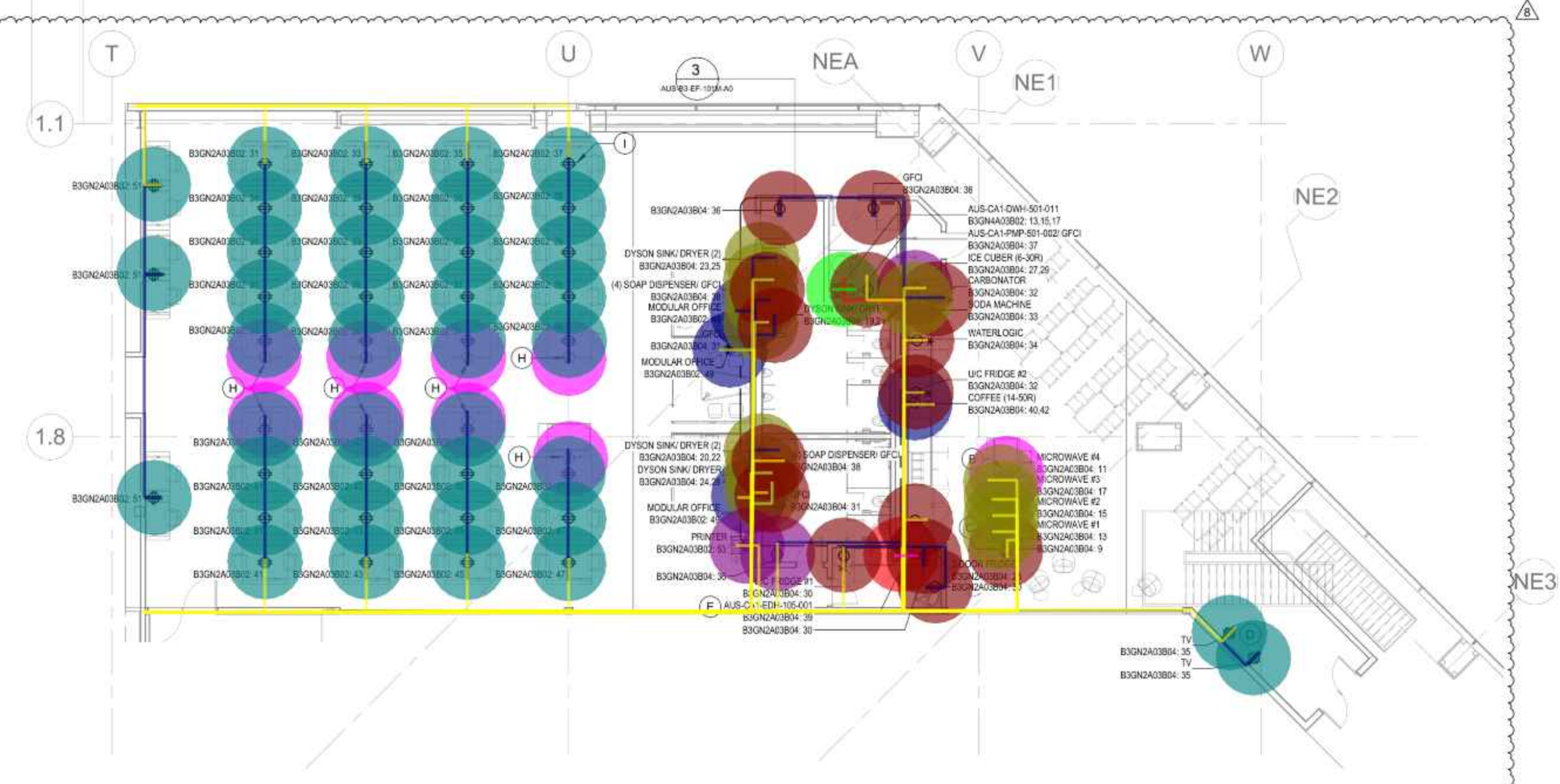
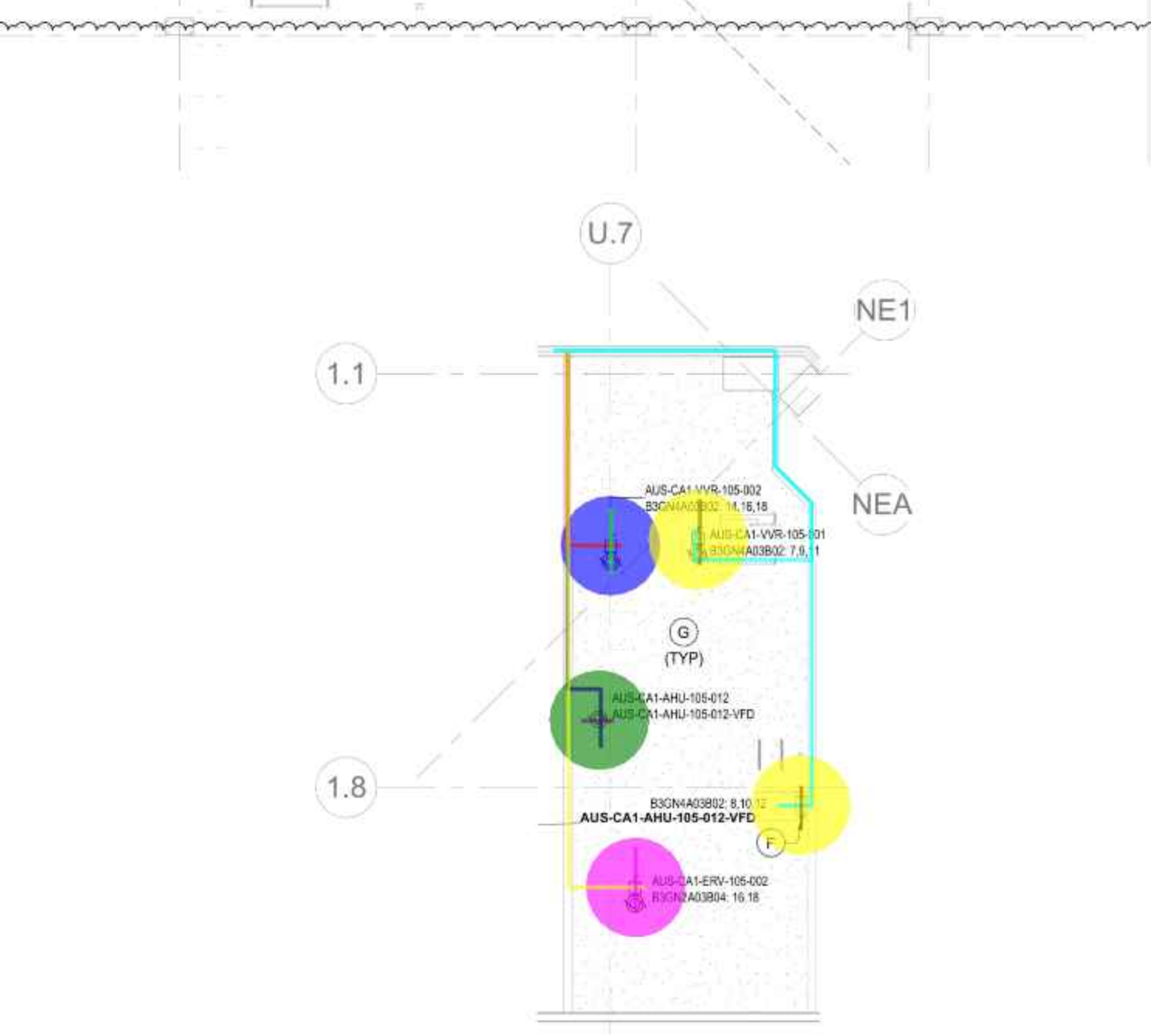
### KEYED NOTES

### CONSTRUCTION NOTES - AUS-B3-EF-101M-A0

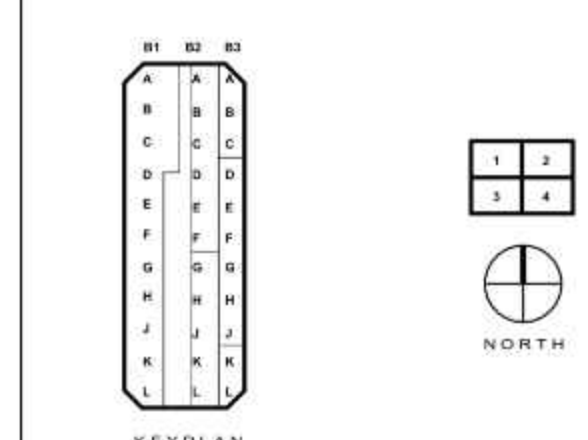
- SCOPE OF WORK IN HATCHED AREA ON HOLD.
- POWER FOR STUB UP CONDUIT TO MICROWAVE, APPROXIMATE LOCATION ON PLANS. FIELD COORDINATE PRIOR TO ROUGH-IN FOR TWO (2) 3/4" EMT CONDUITS. PROVIDE FIRE RATED FLOOR JUNCTION BOX AND TRANSITION TO MC CABLE FROM JUNCTION BOX TO EACH OUTLET LOCATION.
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- ELECTRICAL CONNECTIONS FOR MECHANICAL UNITS ON TOP OF WALKABLE HARDLID. PRIOR TO ELECTRICAL ROUGH-INS COORDINATE WITH MECHANICAL FOR PLACEMENT.
- INSTALL TESLA FURNISHED LEGRAND #0FRPT3 POKE-THRU TRANSITION (3 1/4" CORE DRILL). ROUTE POWER FROM 1F CEILING SPACE INTO #0FR FOUR CHANNEL SURFACE RACEWAY WITH ALL ACCESSORIES AS NEEDED TO ALLOW FOR POWER RUNS TO OPEN OFFICE DESKS. RACEWAY PATH AS INDICATED ON DRAWING. LENGTH OF RACEWAY TO BE FIELD COORDINATED WITH FURNITURE PRIOR TO INSTALL.
- INSTALL TESLA FURNISHED 1 X BLACK DUPLEX RECEPTACLE OUTLET (LEVITON #TR20-E) WITH 1 X BLACK 2-PORT DATA RECEPTACLE OUTLET (LEVITON #41642-E) AND 1 X BLACK 2-GANG DUPLEX/DECORA RECEPTACLE PLATE (LEVITON #80746-E) WITHIN PANDUIT #AFR4JB2SBL 2-GANG BOX IN LEGRAND OFR RACEWAY SYSTEM LINEUP. DATA DROPS BY COMMUNICATIONS CONTRACTOR. TYPICAL.



1 | B3-EF-101M-A0 | SCALE: 3/64" = 1'-0"



8	CY-1201	25-Oct-2023
7	TESLA-RFI-00210 R4	29-Sep-2023
6	TESLA-DCRT-00210 R4	23-Aug-2023
5	CY-1208 R2	22-Aug-2023
4	TESLA-DCRT-00210 R3	20-May-2023
3	TESLA-DCRT-00208 R11	07-Apr-2023
2	TESLA-RFI-00427	04-Jan-2023
1	CYT-DCRT-00006 R3	01-Dec-2022
0	CYT-DCRT-00006 R3	08-Nov-2022



Drawn By: O.Nojuman Checked By: A.Berahmand



SHEET TITLE  
B3 - ELECTRICAL -  
1FM FACILITY  
POWER PLAN -  
SECTOR A0

SHEET NUMBER  
AUS-B3-EF-101M-A0



PROJECT SITE NAME  
**GIGA TEXAS**

PROJECT TITLE  
**CASTING 1**

PROJECT NUMBER  
**GFTX\_CA1\_01**

PROJECT ADDRESS  
**1 Tesla Road, Austin, TX 78725**

**CONFIDENTIAL**

### GENERAL NOTES

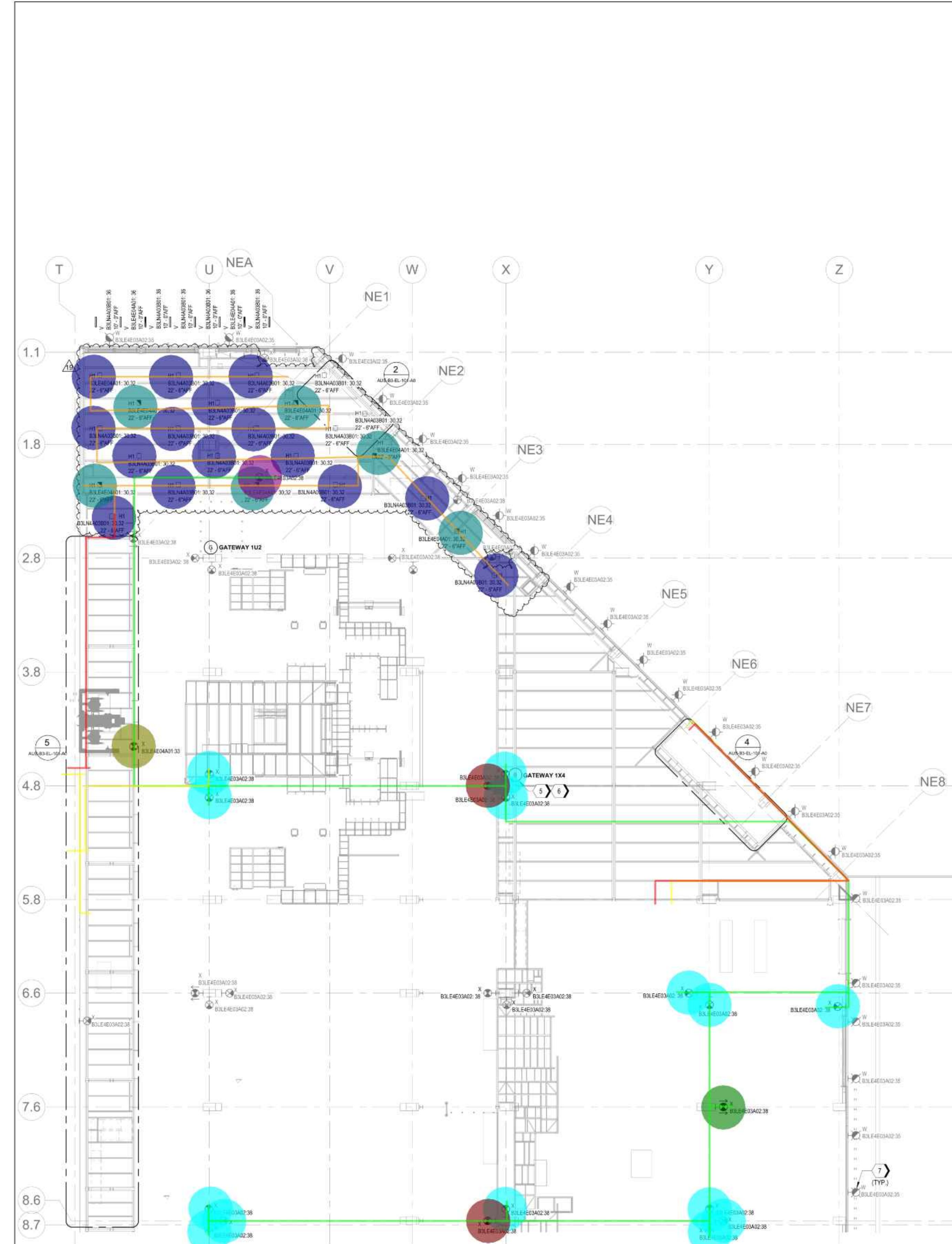
- FOR LEGEND, ABBREVIATIONS, GENERAL NOTES, EQUIPMENT, CONDUIT SIZES, AND DEVICE NAMING NOMENCLATURE REFER TO CAMPUS WIDE DETAIL SET DRAWING AUS-E-010.
- FOR LIGHT FIXTURE SCHEDULES AND DETAILS REFER TO CAMPUS WIDE DETAIL SET DRAWING AUS-E-502.
- PENDANT OR WALL MOUNT TYPE 'X' EXIT SIGNS TO BE INSTALLED AT 13'-6" ABOVE FINISHED FLOOR OR 2' ABOVE TOP OF DOOR WHEN WALL MOUNTED ABOVE AN EXIT DOOR, MEASURED TO BOTTOM OF SIGN. TYPICAL UNLESS NOTED OTHERWISE.
- PROVIDE (2) S TYPE FIXTURES PER STAIR LANDING IN STAIRWELLS INDICATED.
- CONTRACTOR RESPONSIBLE FOR COORDINATING FIXTURE AND MOUNTING HARDWARE WITH LATEST ARCHITECTURAL REFLECTED CEILING PLAN.
- TESLA CM TO INCLUDE THE ENLIGHTENED INTEGRATION SCOPE WITH EVERY LIGHTING LAYOUT ADDITIONAL ALTERATION. ENSURE ENLIGHTENED COMMISSIONING COMPLETION WITHIN 60 DAYS OF INSTALLATION.
- CONTRACTOR TO PROVIDE ALL REQUIRED CONNECTIONS TO STRUCTURE. ALL SUPPORT SYSTEMS AND MOUNTING NECESSARY FOR INSTALLATION OF LIGHTING SYSTEMS.
- REFER TO OVERALL LIGHTING PLAN FOR HIGHBAY LIGHTING LAYOUT.
- SOME EMERGENCY FIXTURES REQUIRE BYPASS RELAY. REFER TO "EN" SERIES DRAWINGS FOR SPECIFIC LOCATIONS.

### KEYED NOTES

- CENTER ON UNDERSIDE OF LANDING. REMOTE OCCUPANCY SENSORS TO BE MOUNTED IN THE CEILING AND SHOWN AS REQUIRED PER FIXTURE AND/OR ROOM LAYOUT.
- SEE ARCHITECTURE PLANS FOR EXACT LIGHT FIXTURE LOCATION.
- R/W WALL WASH LUMINAIRES REFLECTOR SHALL BE ORIENTED AWAY FROM THE MIRROR FOR ROOM FILL.
- FIXTURES MOUNTED IN THIS AREA ARE AT APPROXIMATELY 25' AFF.
- ENLIGHTENED #GW-2-01 LIGHTING GATEWAY MOUNTED NEAR TOP OF STRUCTURAL FRAME AS CLOSE AS POSSIBLE TO LIGHT FIXTURE SENSOR LEVEL. PROVIDE 1 DATA DROP FROM DESIGNATED IDF. GATEWAY PROGRAMMED FOR EVENT CAPABILITIES. REMOTE CONTROL USING COMPUTER. TIE INTO CLOUD OPTION, NETWORK OPTION. (TYPICAL)
- GATEWAY CONNECTION TO FOLLOW ONCE IDF CABINETS ARE INSTALLED IN NORTH CASTING.
- FIXTURES MOUNTED 15'-1" AFF TO CENTERLINE OF FIXTURE. ALL EXTERIOR LIGHTING TO BE MOUNTED AT SAME ELEVATION. FOR EXACT DIMENSIONS SEE ARCHITECTURAL SET. ENSURE DIP SWITCHES ON EACH EXTERIOR LIGHT FIXTURE ARE SET TO THE 3PM POSITION. (TYPICAL)

### CONSTRUCTION NOTES - AUS-B3-EL-101-A0

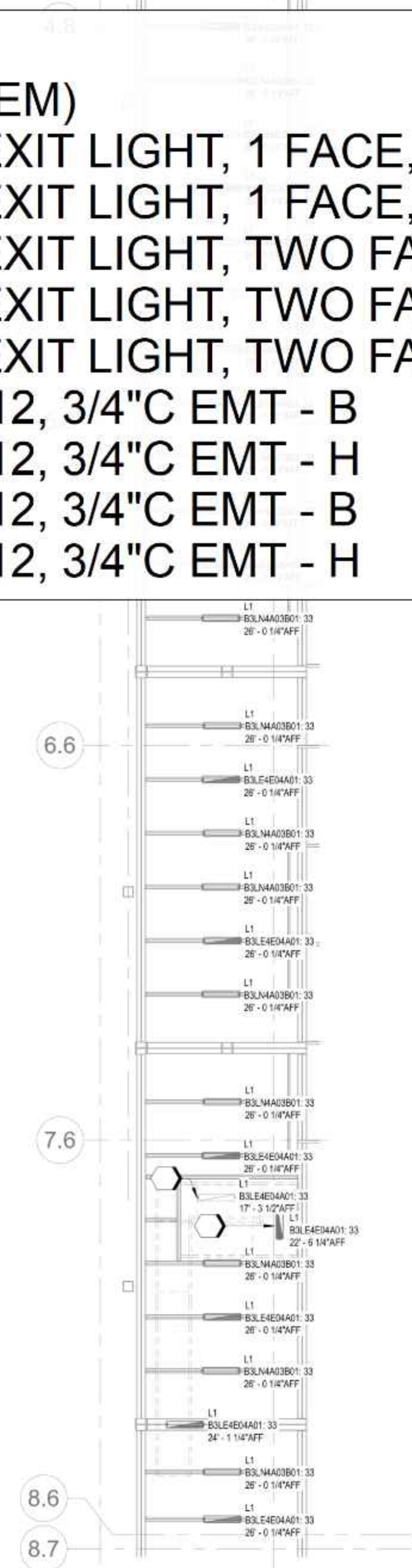
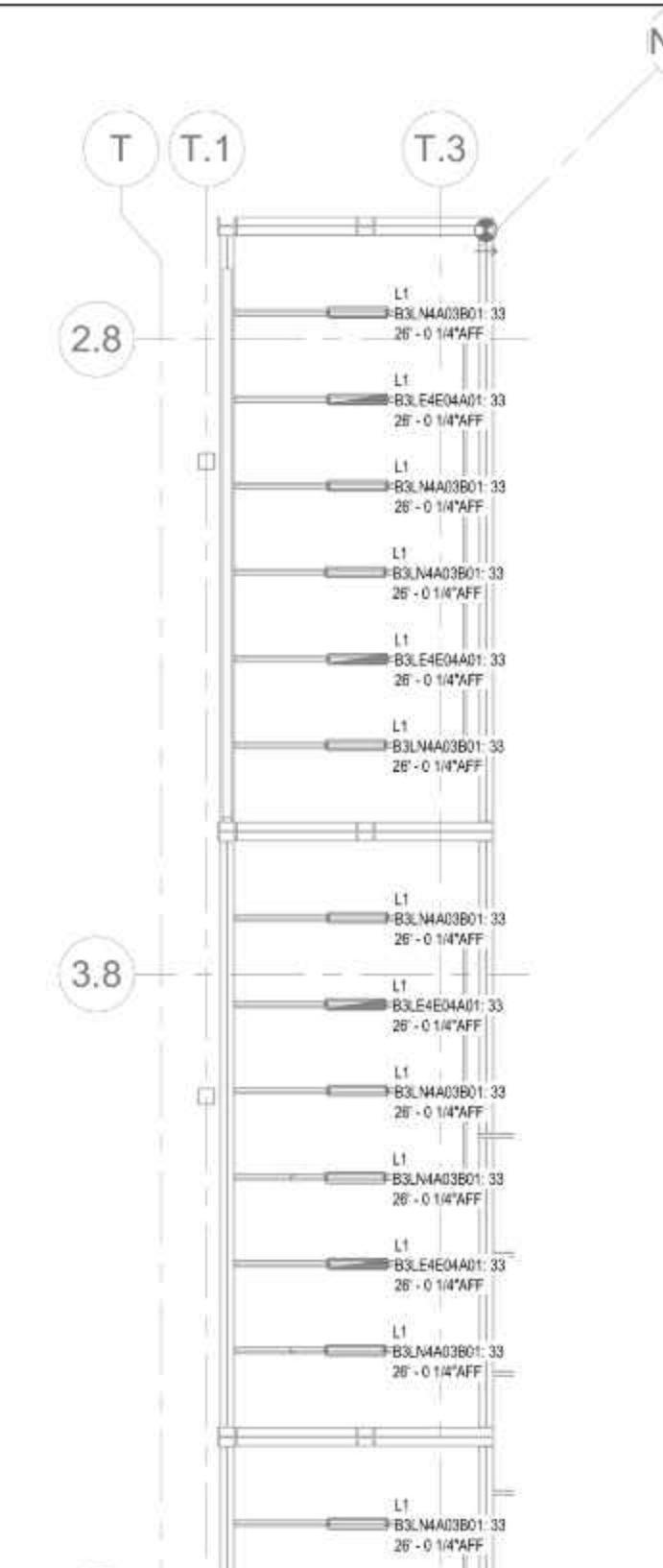
- EXISTING LIGHTS TO BE DISCONNECTED AND REMOVED. SPARE LIGHTS TO BE HANDED OVER TO TESLA SPARES. CIRCUITS TO BE BROUGHT BACK TO SOURCE PANEL OR NEAREST CIRCUIT JUNCTION BOX.



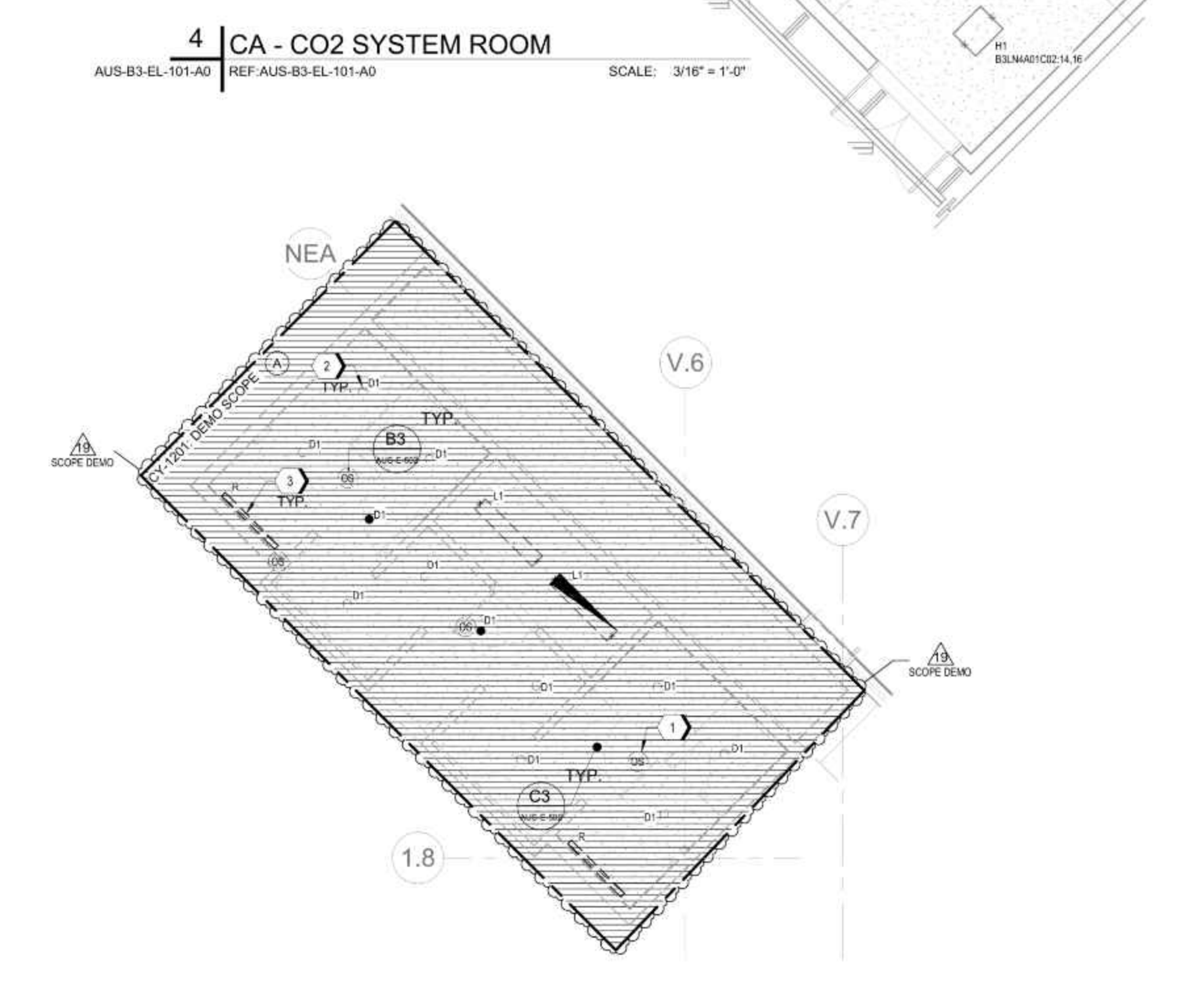
• LF, H1	15.0 EA
• LF, H1(EM)	6.0 EA
• LF, X, EXIT LIGHT, 1 FACE, CEILING MOUNTED	1.0 EA
• LF, X, EXIT LIGHT, 1 FACE, WALL MOUNTED	14.0 EA
• LF, X, EXIT LIGHT, TWO FACE, CEILING MOUN...	1.0 EA
• LF, X, EXIT LIGHT, TWO FACE, TWO ARROW, ...	1.0 EA
• LF, X, EXIT LIGHT, TWO FACE, WALL MOUNTED	2.0 EA
┌ LW, 3#12, 3/4"C EMT - B	1340.9 FT
┌ LW, 3#12, 3/4"C EMT - H	429.2 FT
┌ LW, 5#12, 3/4"C EMT - B	832.9 FT
┌ LW, 5#12, 3/4"C EMT - H	384.5 FT

**1** | B3-EL-101-A0  
AUS-B3-EL-101-A0 REF-ASM-7 SCALE: 3/8" = 1'-0"

**5** | ENLARGED VIEW - PLATFORM UNDERSIDE  
AUS-B3-EL-101-A0 REF-AUS-B3-EL-101-A0 SCALE: 3/32" = 1'-0"

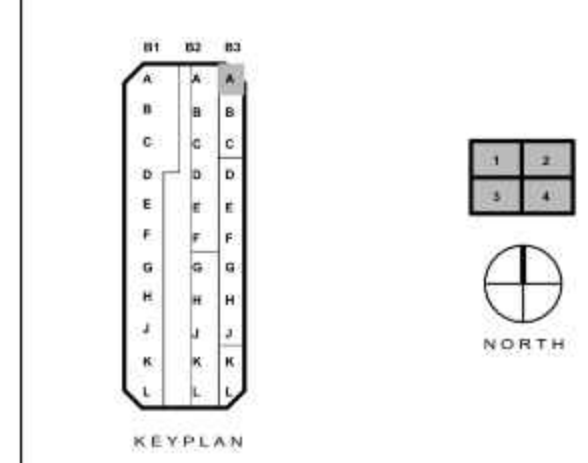


**2** | CA - A0 - RESTROOM LIGHTING  
AUS-B3-EL-101-A0 REF-AUS-B3-EL-101-A0 SCALE: 3/16" = 1'-0"



**4** | CA - CO2 SYSTEM ROOM  
AUS-B3-EL-101-A0 REF-AUS-B3-EL-101-A0 SCALE: 3/16" = 1'-0"

19	CY-1201	25-Oct-2023
18	TESLA DCRT-021594 R5	17-Oct-2023
17	TESLA DCRT-021594 R3	29-Aug-2023
16	TESLA DCRT-021594 R1	19-Jul-2023
15	VAELEC-RP-000002	11-May-2023
14	TESLA DCRT-021195	07-Apr-2023
13	TESLA DCRT-020086 R11	07-Apr-2023
12	CYT-DCRT-000086 R3	07-Dec-2022
11	CYT-DCRT-000086 R3	08-Nov-2022
10	TR-00006 R1	28-Jun-2022
9	TR-00006	18-Mar-2022
8	CA1 Electrical - Branches - FFC R17	18-Nov-2021
7	CA1 Electrical - Branches - FFC R18	21-Oct-2021
6	CA1 Electrical - Branches - FFC R15	21-Sep-2021
5	CA1 Electrical - Branches - FFC R14	16-Aug-2021
4	CA1 Electrical - Branches - FFC R13	16-Jul-2021
3	CA1 Electrical - Branches - FFC R12	01-Jul-2021
2	CA1 Electrical - Branches - FFC R11	11-Jun-2021
1	CA1 Electrical - Branches - FFC R8	02-May-2021
NO.	ISSUED FOR	DATE



Drawn By: LT Checked By: ON  
 SEAL  
  
 Amir Beharmand  
 Licensed Professional Engineer  
 State of Texas  
 License No. 138602  
 Tesla Firm No. F-15337

SHEET TITLE  
**B3 - ELECTRICAL - LIGHTING PLAN - SECTOR A0**

SHEET NUMBER  
**AUS-B3-EL-101-A0**



PROJECT SITE NAME  
**GIGA TEXAS**

PROJECT TITLE  
**CASTING 1**

PROJECT NUMBER  
**GFTX\_CA1\_01**

PROJECT ADDRESS  
**1 Tesla Road, Austin, TX 78725**

**CONFIDENTIAL**

### GENERAL NOTES

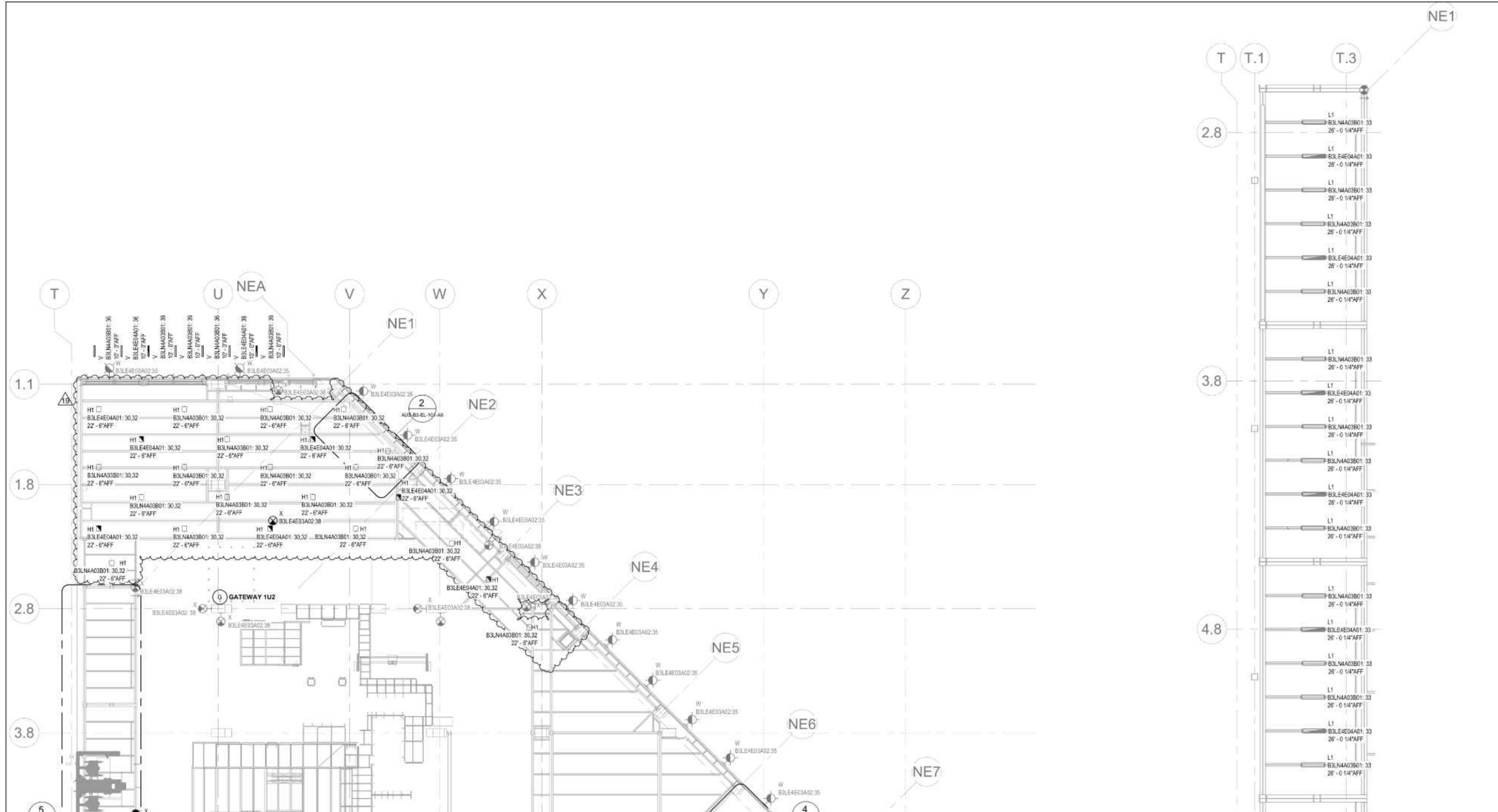
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- FOR LIGHT FIXTURE SCHEDULES AND DETAILS REFER TO CAMPUS WIDE DETAIL SET DRAWING AUS-E-502.
- PENDANT OR WALL MOUNT TYPE 'X' EXIT SIGNS TO BE INSTALLED AT 13'-6" ABOVE FINISHED FLOOR OR 2' ABOVE TOP OF DOOR WHEN WALL MOUNTED ABOVE AN EXIT DOOR, MEASURED TO BOTTOM OF SIGN. TYPICAL UNLESS NOTED OTHERWISE.
- PROVIDE (2) S TYPE FIXTURES PER STAIR LANDING IN STAIRWELLS INDICATED.
- CONTRACTOR RESPONSIBLE FOR COORDINATING FIXTURE AND MOUNTING HARDWARE WITH LATEST ARCHITECTURAL REFLECTED CEILING PLAN.
- TESLA CM TO INCLUDE THE ENLIGHTEN INTEGRATION SCOPE WITH EVERY LIGHTING LAYOUT ADDITIONAL ALTERATION. ENSURE ENLIGHTEN COMMISSIONING COMPLETION WITHIN 60 DAYS OF INSTALLATION.
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### KEYED NOTES

- CENTER ON UNDERSIDE OF LANDING.
- REMOTE OCCUPANCY SENSORS TO BE MOUNTED IN THE CEILING AND SHOWN AS REQUIRED PER FIXTURE AND/OR ROOM LAYOUT.
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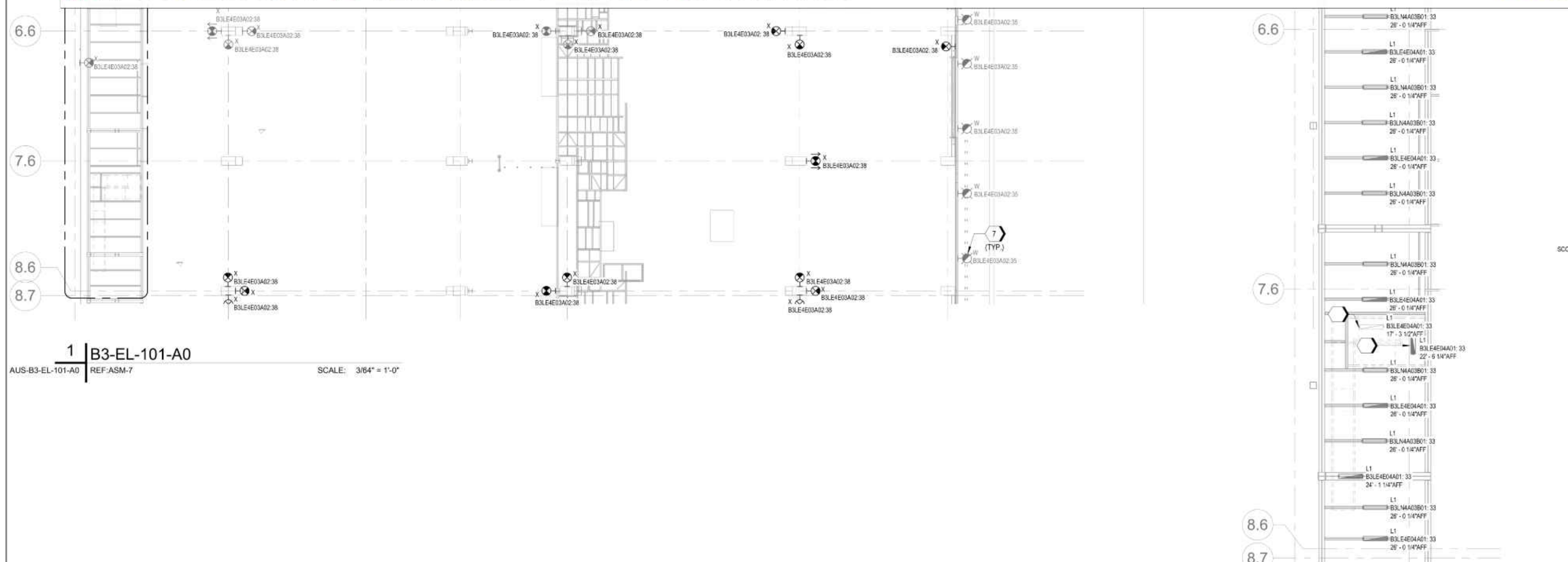
### CONSTRUCTION NOTES - AUS-B3-EL-101-A0

- EXISTING LIGHTS TO BE DISCONNECTED AND REMOVED. SPARE LIGHTS TO BE HANDED OVER TO TESLA SPARES. CIRCUITS TO BE BROUGHT BACK TO SOURCE PANEL OR NEAREST CIRCUIT JUNCTION BOX.



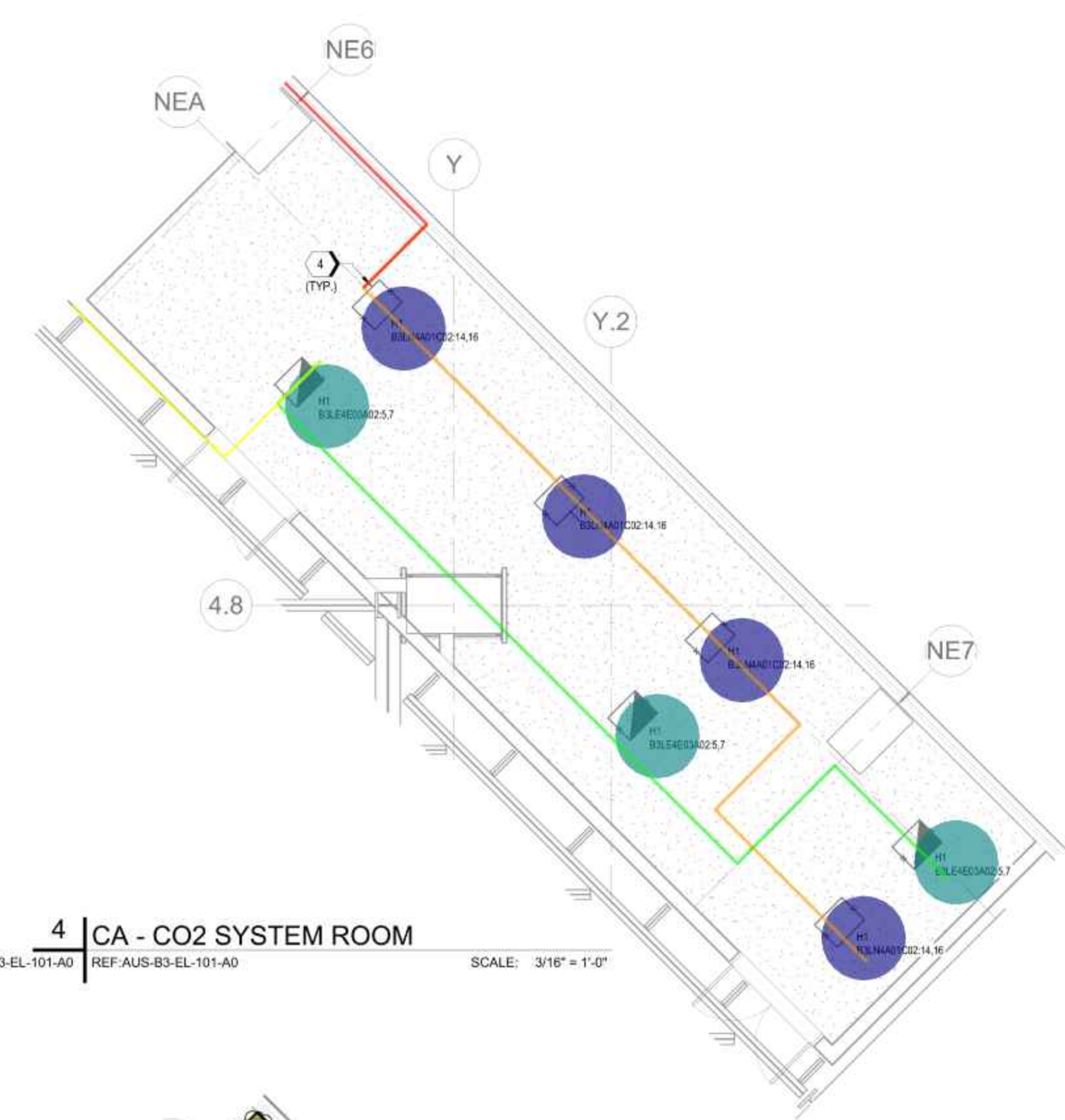
**DEMO, EXISTING LIGHTS TO BE DISCONNECT AND REMOVED, CIRCUIT TO BE BROUGHT BACK TO SOURCE PANEL OR NEAREST CIRCUIT JUNCTION BOX. 666.3 SQ FT**

- LF, H1
- LF, H1(EM)
- LW, 3#12, 3/4"C EMT - B
- LW, 3#12, 3/4"C EMT - H
- LW, 5#12, 3/4"C EMT - B
- LW, 5#12, 3/4"C EMT - H
- Z, SPARE LIGHTS TO BE HANDED OVER TO TESLA SPARES

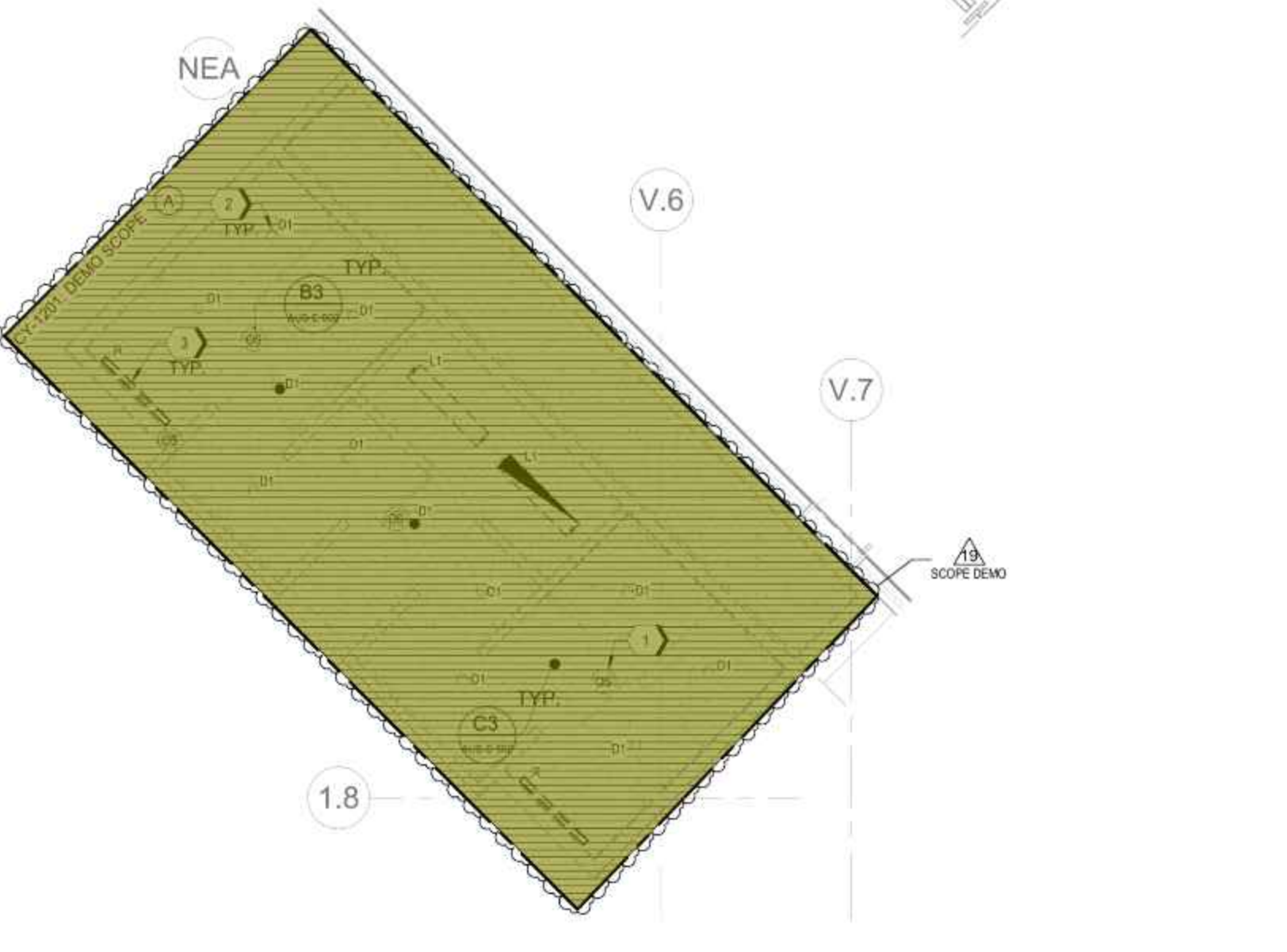


**1** B3-EL-101-A0  
AUS-B3-EL-101-A0 REF-ASM-7 SCALE: 3/8" = 1'-0"

**5** ENLARGED VIEW - PLATFORM UNDERSIDE  
AUS-B3-EL-101-A0 REF-AUS-B3-EL-101-A0 SCALE: 3/32" = 1'-0"

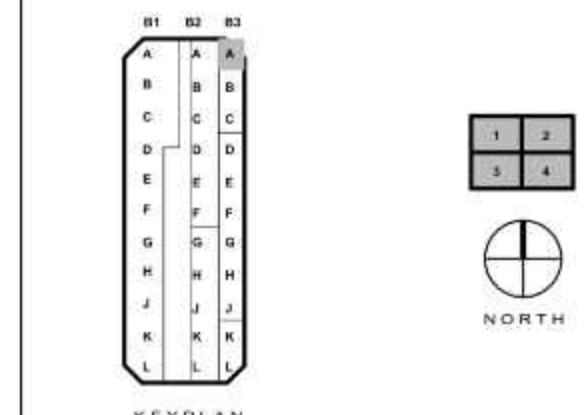


**4** CA - CO2 SYSTEM ROOM  
AUS-B3-EL-101-A0 REF-AUS-B3-EL-101-A0 SCALE: 3/16" = 1'-0"



**2** CA - A0 - RESTROOM LIGHTING  
AUS-B3-EL-101-A0 REF-AUS-B3-EL-101-A0 SCALE: 3/16" = 1'-0"

19	CY-1201	25-Oct-2023
18	TESLA DCRT-001594 R5	17-Oct-2023
17	TESLA DCRT-001594 R3	29-Aug-2023
16	TESLA DCRT-001594 R1	19-Jul-2023
15	VALECRP-000002	11-May-2023
14	TESLA DCRT-001195	07-Apr-2023
13	TESLA DCRT-000086 R11	03-Apr-2023
12	CYT-DCRT-000086 R5	01-Dec-2022
11	CYT-DCRT-000086 R3	08-Nov-2022
10	TH-00006 R1	28-Jul-2022
9	TH-00006	18-Mar-2022
8	CA1 Electrical - Branches - FFC R17	15-Nov-2021
7	CA1 Electrical - Branches - FFC R18	21-Oct-2021
6	CA1 Electrical - Branches - FFC R15	21-Sep-2021
5	CA1 Electrical - Branches - FFC R14	16-Aug-2021
4	CA1 Electrical - Branches - FFC R13	16-Jul-2021
3	CA1 Electrical - Branches - FFC R12	01-Jul-2021
2	CA1 Electrical - Branches - FFC R11	11-Jun-2021
1	CA1 Electrical - Branches - FFC R8	03-May-2021
NO.	ISSUED FOR	DATE



Drawn By: LT Checked By: ON

SEAL

AMIR BEHARMAND  
138602  
LICENSED PROFESSIONAL ENGINEER  
STATE OF TEXAS  
Tesla Firm No. F-15337

**SHEET TITLE**  
**B3 - ELECTRICAL - LIGHTING PLAN - SECTOR A0**

**SHEET NUMBER**  
**AUS-B3-EL-101-A0**





PROJECT SITE NAME  
**GIGA TEXAS**

PROJECT TITLE  
**CASTING 1**

PROJECT NUMBER  
**GFTX\_CA1\_01**

PROJECT ADDRESS  
**1 Tesla Road, Austin, TX 78725**

**CONFIDENTIAL**

### GENERAL NOTES

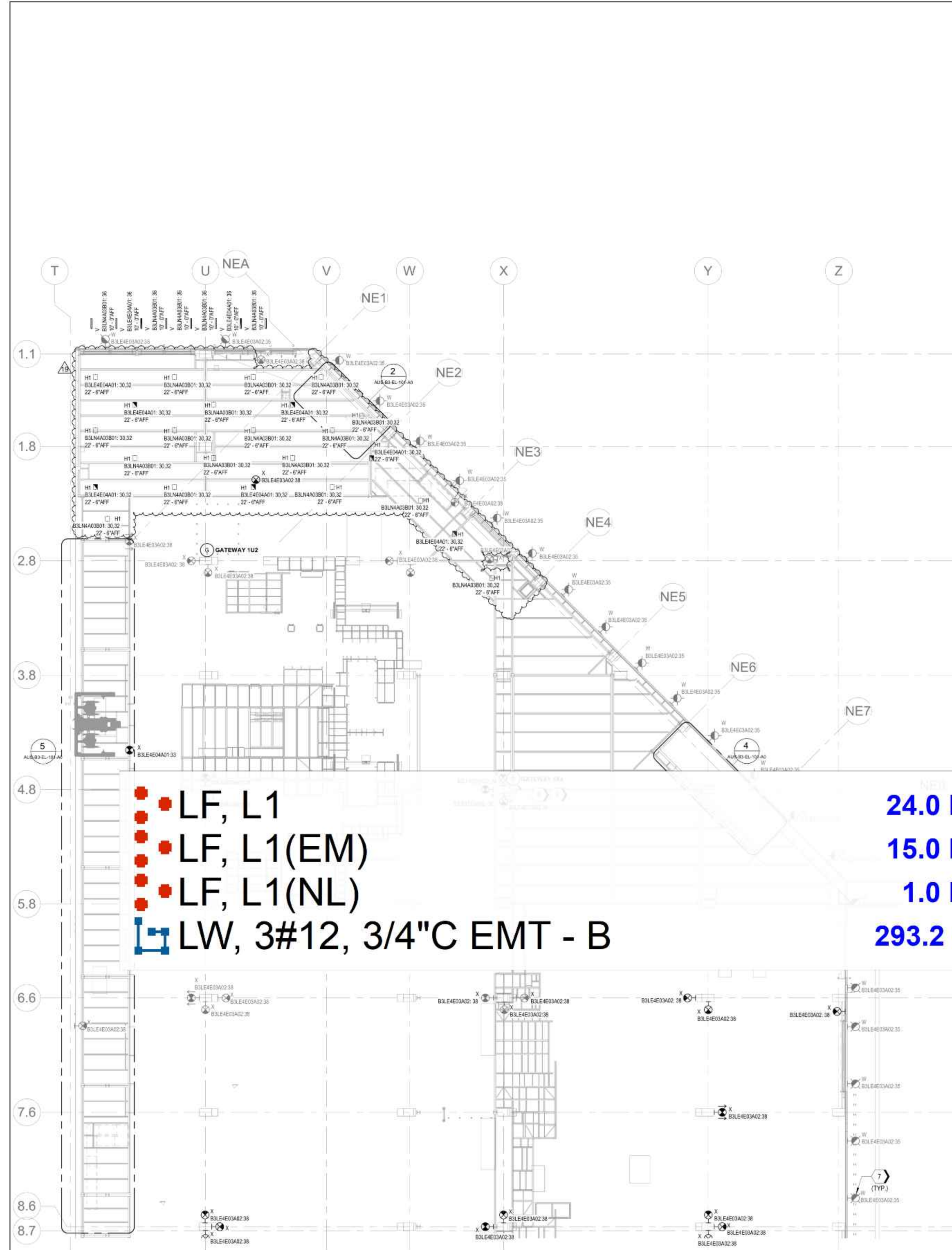
- FOR LEGEND, ABBREVIATIONS, GENERAL NOTES, EQUIPMENT, CONDUIT SIZES, AND DEVICE NAMING NOMENCLATURE REFER TO CAMPUS WIDE DETAIL SET DRAWING AUS-E-010.
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- PROVIDE (2) S TYPE FIXTURES PER STAIR LANDING IN STAIRWELLS INDICATED.
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- CONTRACTOR TO PROVIDE ALL REQUIRED CONNECTIONS TO STRUCTURE. ALL SUPPORT SYSTEMS AND MOUNTING NECESSARY FOR INSTALLATION OF LIGHTING SYSTEMS.
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### KEYED NOTES

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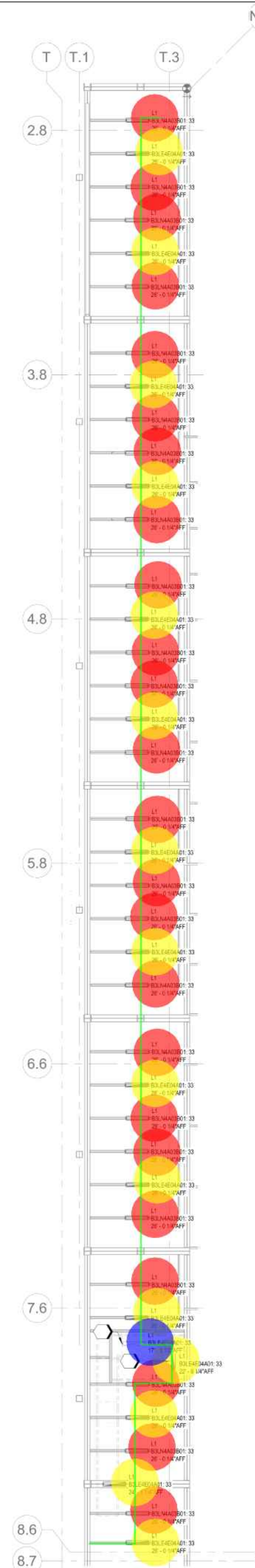
### CONSTRUCTION NOTES - AUS-B3-EL-101-A0

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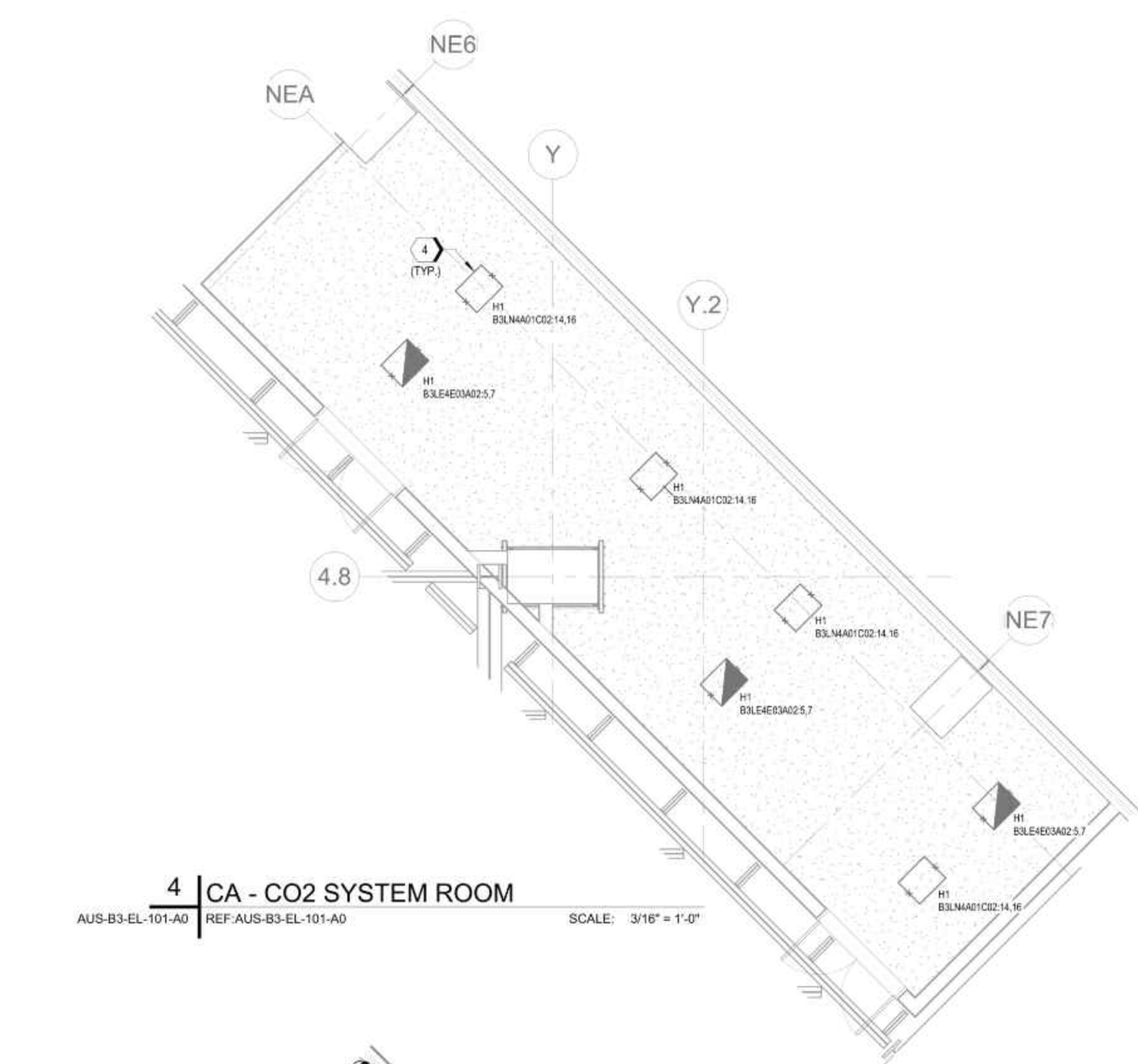


- LF, L1 **24.0 EA**
- LF, L1(EM) **15.0 EA**
- LF, L1(NL) **1.0 EA**
- LW, 3#12, 3/4" C EMT - B **293.2 FT**

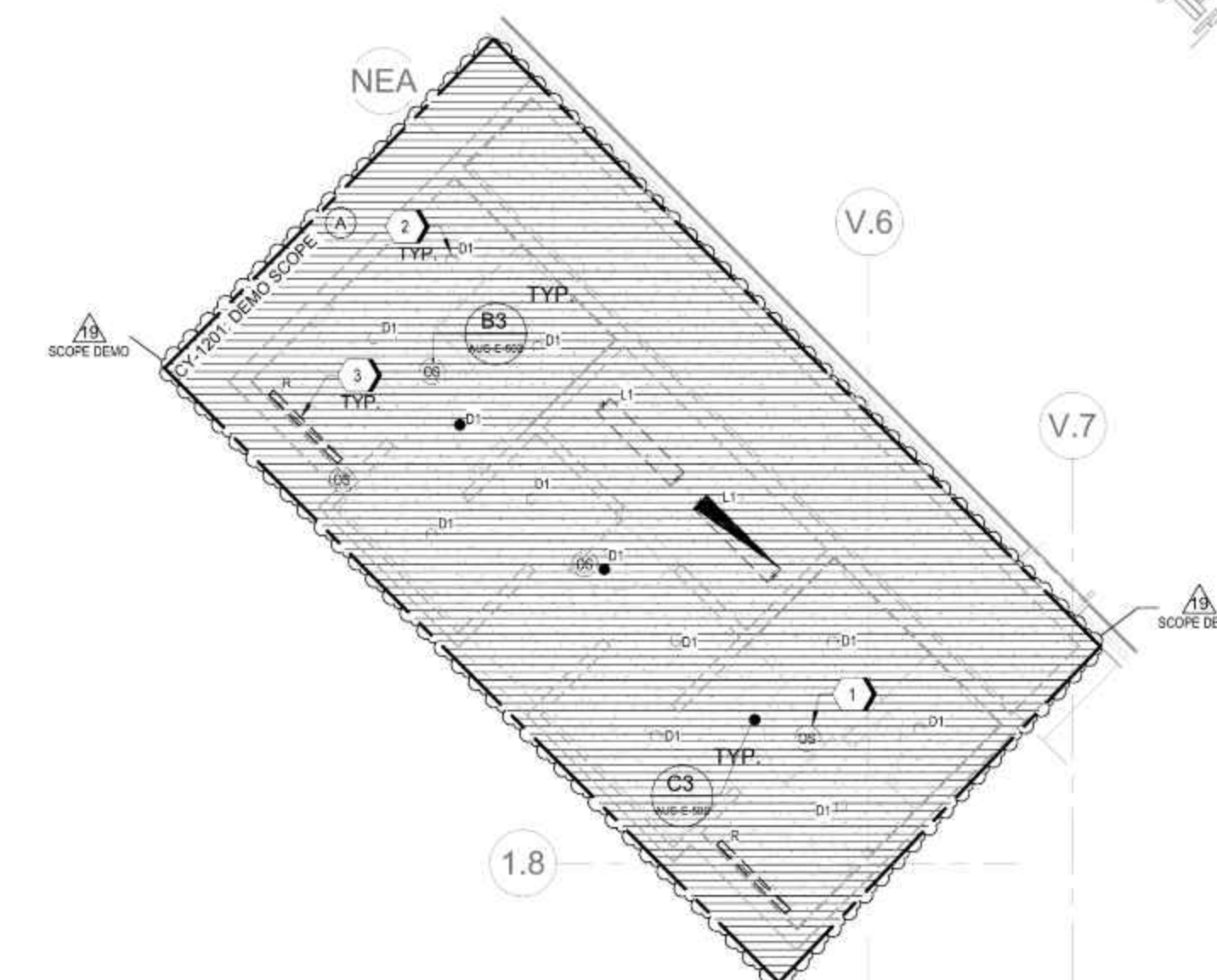
**1** B3-EL-101-A0  
AUS-B3-EL-101-A0 REF-ASM-7 SCALE: 3/8" = 1'-0"



**5** ENLARGED VIEW - PLATFORM UNDERSIDE  
AUS-B3-EL-101-A0 REF-AUS-B3-EL-101-A0 SCALE: 3/32" = 1'-0"

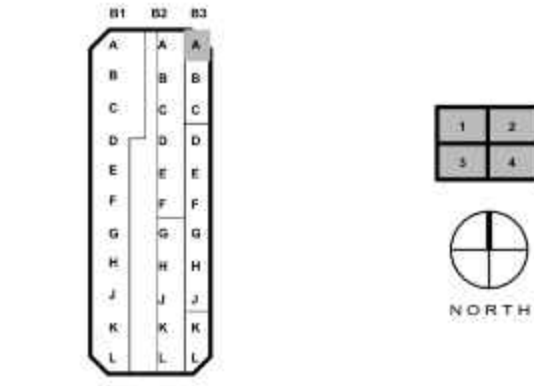


**4** CA - CO2 SYSTEM ROOM  
AUS-B3-EL-101-A0 REF-AUS-B3-EL-101-A0 SCALE: 3/16" = 1'-0"



**2** CA - A0 - RESTROOM LIGHTING  
AUS-B3-EL-101-A0 REF-AUS-B3-EL-101-A0 SCALE: 3/16" = 1'-0"

19	CY-1201	25-Oct-2023
18	TESLA DCRT-001594 R5	17-Oct-2023
17	TESLA DCRT-001594 R3	29-Aug-2023
16	TESLA DCRT-001594 R1	19-Jul-2023
15	VAELEC-RP-000002	11-May-2023
14	TESLA DCRT-001195	07-Apr-2023
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12	CYT-DCRT-000086 R3	01-Dec-2022
11	CYT-DCRT-000086 R3	08-Nov-2022
9	TR-00006 R1	28-Jun-2022
8	TR-00006	18-Mar-2022
7	CA1 Electrical - Branches - FFC R17	15-Nov-2021
6	CA1 Electrical - Branches - FFC R18	21-Oct-2021
5	CA1 Electrical - Branches - FFC R15	21-Sep-2021
4	CA1 Electrical - Branches - FFC R14	16-Aug-2021
3	CA1 Electrical - Branches - FFC R13	16-Jul-2021
2	CA1 Electrical - Branches - FFC R12	01-Jul-2021
1	CA1 Electrical - Branches - FFC R11	11-Jun-2021
T	CA1 Electrical - Branches - FFC R8	03-May-2021
NO.	ISSUED FOR	DATE



Drawn By: LT Checked By: ON



SHEET TITLE  
**B3 - ELECTRICAL - LIGHTING PLAN - SECTOR A0**

SHEET NUMBER  
**AUS-B3-EL-101-A0**



PROJECT SITE NAME  
**GIGA TEXAS**

PROJECT TITLE  
**CASTING 1**

PROJECT NUMBER  
GFTX\_CA1\_01  
PROJECT ADDRESS  
1 Tesla Road, Austin, TX 78725

**CONFIDENTIAL**

### GENERAL NOTES

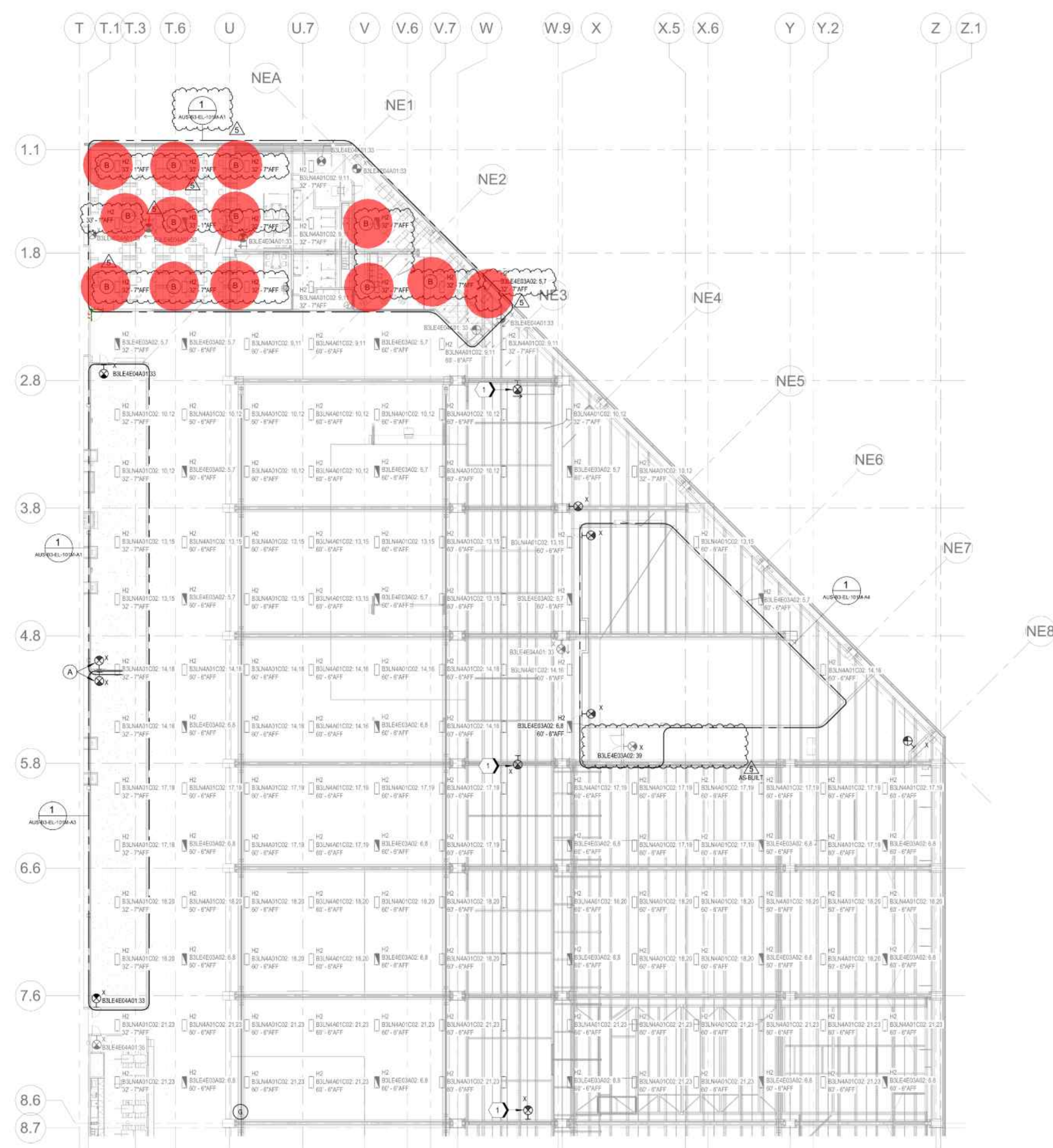
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### KEYED NOTES

- INSTALL EXIT SIGN ON PIPE-RACK MEZZANINE LEVEL.

### CONSTRUCTION NOTES - AUS-B3-EL-101M-A0

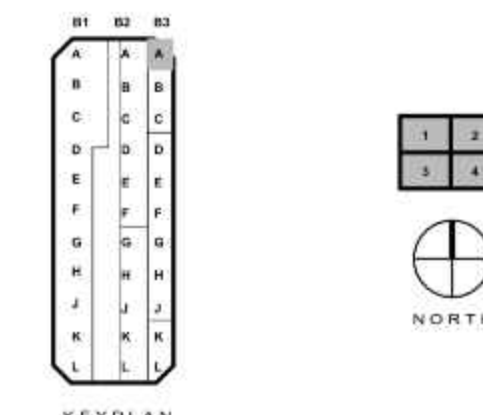
- PROVIDE ALL LISTED PHOTO LUMINESCENT EXIT SIGNS ABOVE TEMPORARY DOOR. EXISTING TYPE 'H2' LIGHT FIXTURE TO BE DISCONNECTED FROM POWER AND REMOVED. SPARE LIGHT FIXTURES TO BE HANDED OVER TO TESLA AFTER REMOVED. POWER CABLE TO BE PULLED BACK TO NEAREST ACCESSIBLE JUNCTION BOX.



**1** B3-EL-101M - OVERALL  
AUS-B3-EL-101M-A0 REF: ASM-7 SCALE: 3/8" = 1'-0"

**13.0 EA** DEMO, REMOVAL AND DISCONNECTED FROM POWER H2 LIGHT FIXTURE, BACK TO SOURCE WIRING PANEL OR NEAR JUNCTIO...

NO.	REVISION FOR	DATE
5	CY-1201	25-Oct-2023
4	TESLA DCRIT-001594 R5	17-Oct-2023
3	CY-1200 R2	22-Aug-2023
2	TESLA DCRIT-001594 R1	19-Jul-2023
1	TESLA RFI-005680	25-May-2023
0	CYT-DCRT-000086 R3	09-Nov-2022



KEY PLAN  
Drawn By: MB Checked By: AB



SHEET TITLE  
**B3 - ELECTRICAL - LIGHTING PLAN - SECTOR A0**

SHEET NUMBER  
**AUS-B3-EL-101M-A0**



PROJECT SITE NAME  
GIGA TEXAS

PROJECT TITLE  
CASTING 1

PROJECT NUMBER  
GFTX\_CA1\_01  
PROJECT ADDRESS  
1 Tesla Road, Austin, TX 78725

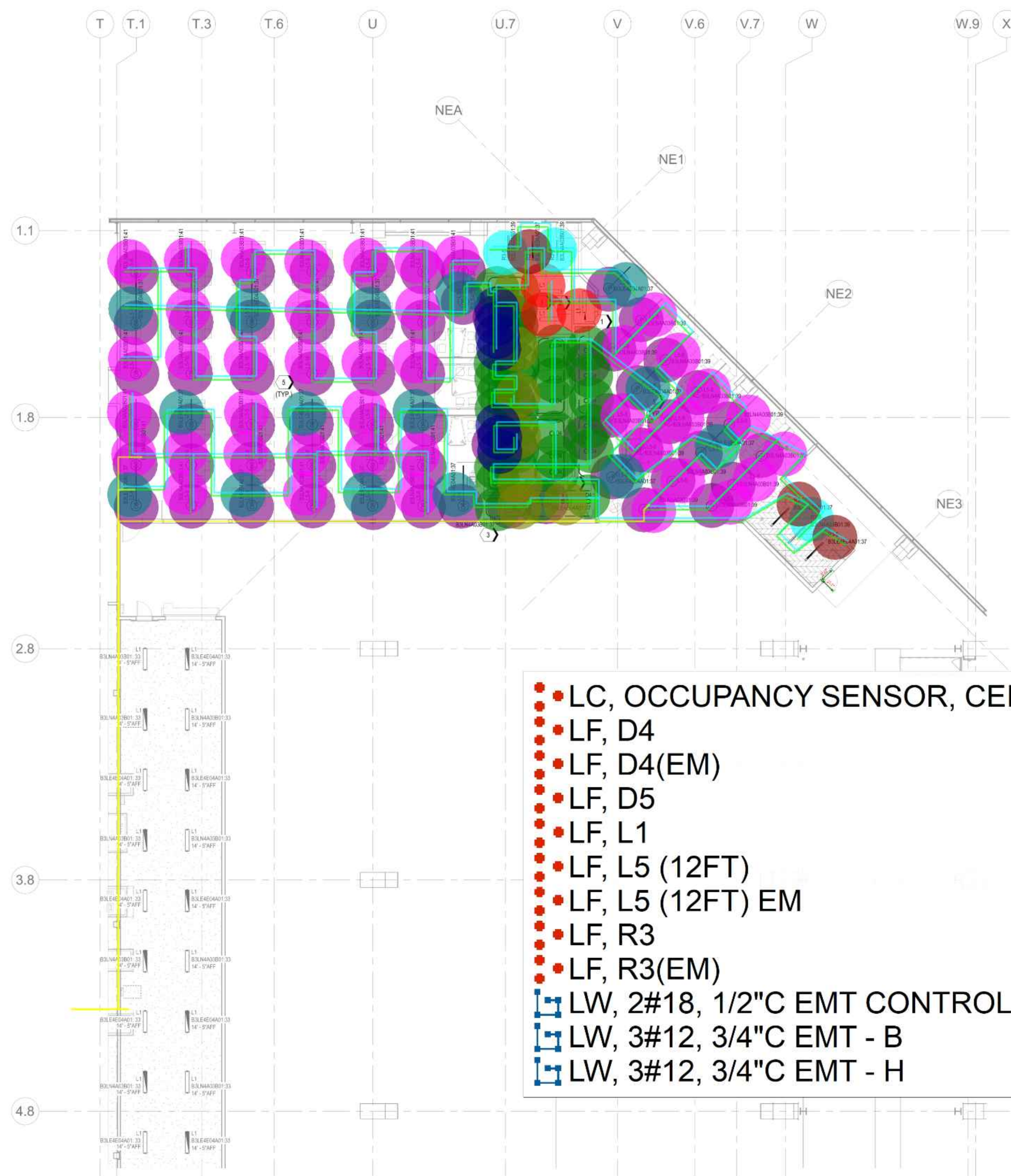
CONFIDENTIAL

GENERAL NOTES

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- REFER TO OVERALL LIGHTING PLAN FOR HIGHBAY LIGHTING LAYOUT.
- SOME EMERGENCY FIXTURES REQUIRE BYPASS RELAY. REFER TO "EN" SERIES DRAWINGS FOR SPECIFIC LOCATIONS.

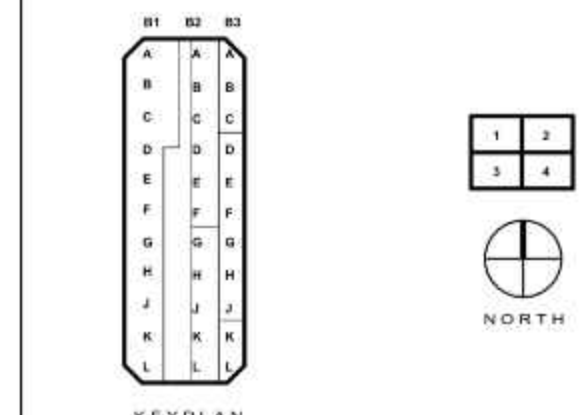
KEYED NOTES

- SUSPEND LIGHT FIXTURE AT 10-FT AFF.
- ALL LIGHTING CONTROLS DEVICES SERVICING RESTROOM BLOCK INSTALLED IN ENCLOSURE MOUNTED IN JANITORS CLOSET CEILING SPACE.
- CIRCUIT DESIGNATION FOR ALL NORMAL LIGHT FIXTURE TYPES WITHIN ROOM BOUNDARIES. (TYP.)
- CIRCUIT DESIGNATION FOR ALL EMERGENCY LIGHT FIXTURE TYPES WITHIN ROOM BOUNDARIES. (TYP.)
- SUSPEND LIGHT FIXTURE AT 12'-1" AFF IN OFFICE SPACE.



● LC, OCCUPANCY SENSOR, CEILING MOUNTED	● 65.0 EA
● LF, D4	● 31.0 EA
● LF, D4(EM)	● 7.0 EA
● LF, D5	● 7.0 EA
● LF, L1	● 3.0 EA
● LF, L5 (12FT)	● 41.0 EA
● LF, L5 (12FT) EM	● 15.0 EA
● LF, R3	● 3.0 EA
● LF, R3(EM)	● 3.0 EA
▣ LW, 2#18, 1/2" C EMT CONTROL WIRE	▣ 1436.5 FT
▣ LW, 3#12, 3/4" C EMT - B	▣ 1436.5 FT
▣ LW, 3#12, 3/4" C EMT - H	▣ 479.0 FT

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Drawn By: LT  
Checked By: ON

SEAL

AMIR BEHARMAND  
138602  
LICENSED PROFESSIONAL ENGINEER  
08/2019  
Tesla Firm No. F-15337

SHEET TITLE  
B3 - ELECTRICAL -  
LIGHTING PLAN -  
SECTOR A1

SHEET NUMBER  
AUS-B3-EL-101M-A1