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ORANGE COUNTY PROJECT NO. : 0966-39

OCCC - WEST BUILDING HALL "A" NATURAL GAS RETROFIT

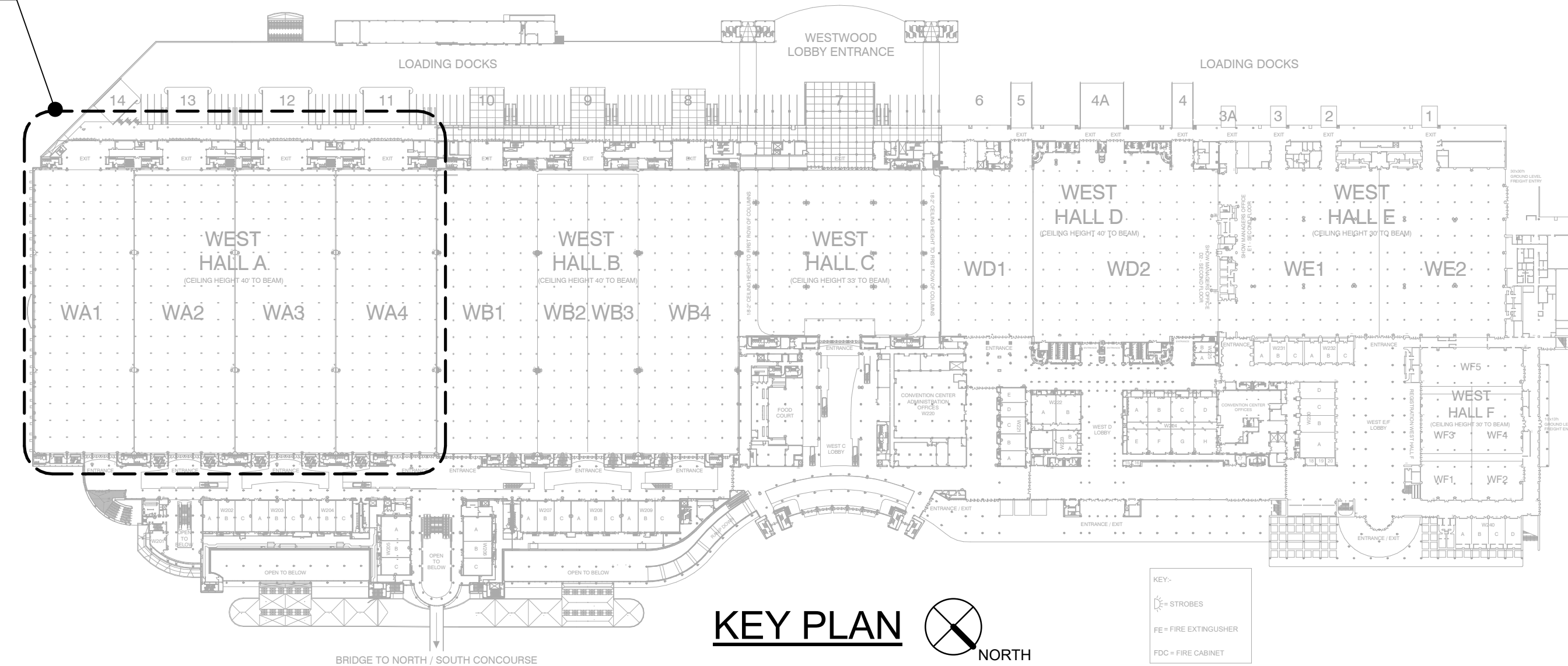
9800 International Dr.
Orlando, FL 32819

PROJECT LOCATION



ORANGE COUNTY CONVENTION CENTER WEST CONCOURSE - LEVEL II

AREA OF WORK



PROJECT INFORMATION	
SCOPE OF WORK	
<p>PLUMBING: PLUMBING SCOPE INCLUDES THE ADDITION OF NATURAL GAS PIPING WITH THE WEST BUILDING "A" HALL CATWALKS TO SERVE THE NEEDS ON THE EXHIBIT FLOOR BELOW DURING SHOWS AND CONVENTIONS. PIPING SHALL CONNECT TO THE EXISTING NATURAL GAS PIPING TERMINATING AT THE END OF "B" HALL AND BE EXTENDED INTO "A" HALL. PIPING SHALL INCLUDE ELECTRIC SOLENOID VALVES FOR AUTOMATIC GAS SUPPLY SHUT-OFF VIA EMERGENCY PUSH BUTTONS LOCATED AT THE EXHIBIT FLOOR.</p> <p>ELECTRICAL: ELECTRICAL SCOPE INCLUDES NEW 120V WIRING FOR THE NATURAL GAS PIPING ELECTRONIC VALVES AND EMERGENCY SHUT-OFF PUSH BUTTONS.</p>	
CODES IN EFFECT AT TIME OF DRAWING SUBMITTAL	
FLORIDA BUILDING CODE, SIXTH EDITION (2017) FLORIDA ENERGY CONSERVATION CODE, SIXTH EDITION (2017) FLORIDA ACCESSIBILITY CODE, SIXTH EDITION (2017) FLORIDA FIRE PREVENTION CODE, SIXTH EDITION (2017) NFPA 1 FIRE CODE, 2015 EDITION NFPA 101 (LIFE SAFETY CODE) 2015 EDITION WITH FL AMENDMENTS NEC (NFPA 70) 2014 EDITION	
TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE 2017 FLORIDA BUILDING CODE WITH ALL CURRENT AMENDMENTS.	
DRAWING INDEX	
SHEET NO.	SHEET NAME
G-001	COVER SHEET
P-001	PLUMBING LEGEND
P-400	LEVEL 4 OVERALL PLAN - PLUMBING
P-407A	PARTIAL LEVEL 4 PLAN - AREA 7A - PLUMBING
P-407D	PARTIAL LEVEL 4 PLAN - AREA 7D - PLUMBING
P-408A	PARTIAL LEVEL 4 PLAN - AREA 8A - PLUMBING
P-408B	PARTIAL LEVEL 4 PLAN - AREA 8B - PLUMBING
P-408C	PARTIAL LEVEL 4 PLAN - AREA 8C - PLUMBING
P-408D	PARTIAL LEVEL 4 PLAN - AREA 8D - PLUMBING
P-411A	PARTIAL LEVEL 4 PLAN - AREA 11A - PLUMBING
P-411B	PARTIAL LEVEL 4 PLAN - AREA 11B - PLUMBING
P-411C	PARTIAL LEVEL 4 PLAN - AREA 11C - PLUMBING
P-411D	PARTIAL LEVEL 4 PLAN - AREA 11D - PLUMBING
P-412A	PARTIAL LEVEL 4 PLAN - AREA 12A - PLUMBING
P-412D	PARTIAL LEVEL 4 PLAN - AREA 12D - PLUMBING
P-801	PLUMBING - NATURAL GAS ISOMETRIC
P-901	PLUMBING DETAILS
E-001	GENERAL ELECTRICAL NOTES, LEGEND AND ABBREVIATIONS
E-102	ELECTRICAL OVERALL FLOOR PLAN - LEVEL 2
E-104	ELECTRICAL OVERALL FLOOR PLAN - LEVEL 4
E-207A	PARTIAL LEVEL 2 - AREA 7A - POWER
E-207D	PARTIAL LEVEL 2 - AREA 7D - POWER
E-209B	PARTIAL LEVEL 2 - AREA 9B - POWER
E-209C	PARTIAL LEVEL 2 - AREA 9C - POWER
E-210B	PARTIAL LEVEL 2 - AREA 10B - POWER
E-210C	PARTIAL LEVEL 2 - AREA 10C - POWER
E-212A	PARTIAL LEVEL 2 - AREA 12A - POWER
E-212D	PARTIAL LEVEL 2 - AREA 12D - POWER
E-407A	PARTIAL LEVEL 4 - AREA 7A - POWER
E-407D	PARTIAL LEVEL 4 - AREA 7D - POWER
E-412A	PARTIAL LEVEL 4 - AREA 12A - POWER
E-412D	PARTIAL LEVEL 4 - AREA 12D - POWER
E-601	PANEL SCHEDULES AND DETAILS

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SEAL
OCCC - WEST BUILDING, HALL "A" NATURAL GAS RETROFIT

9800 International Dr.
Orlando, FL 32819

MARK	DATE	DESCRIPTION

ISSUE: 11/30/18
 PROJECT NO: 17G0189
 DESIGN BY: BM/DH
 DRAWN BY: BM
 REVIEWED BY: DH/SP
 SHEET TITLE
 COVER SHEET

PRIME/ELECTRICAL ENGINEERS



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PLUMBING ENGINEERS



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TEL: (888) 891-9713

100% CD'S
NOVEMBER 30, 2018

100% CD'S
G-001

MARK	DATE	DESCRIPTION

ISSUE: 11/30/18
PROJECT NO: 17G0189
DESIGN BY: RJS
DRAWN BY: RJS
REVIEWED BY:

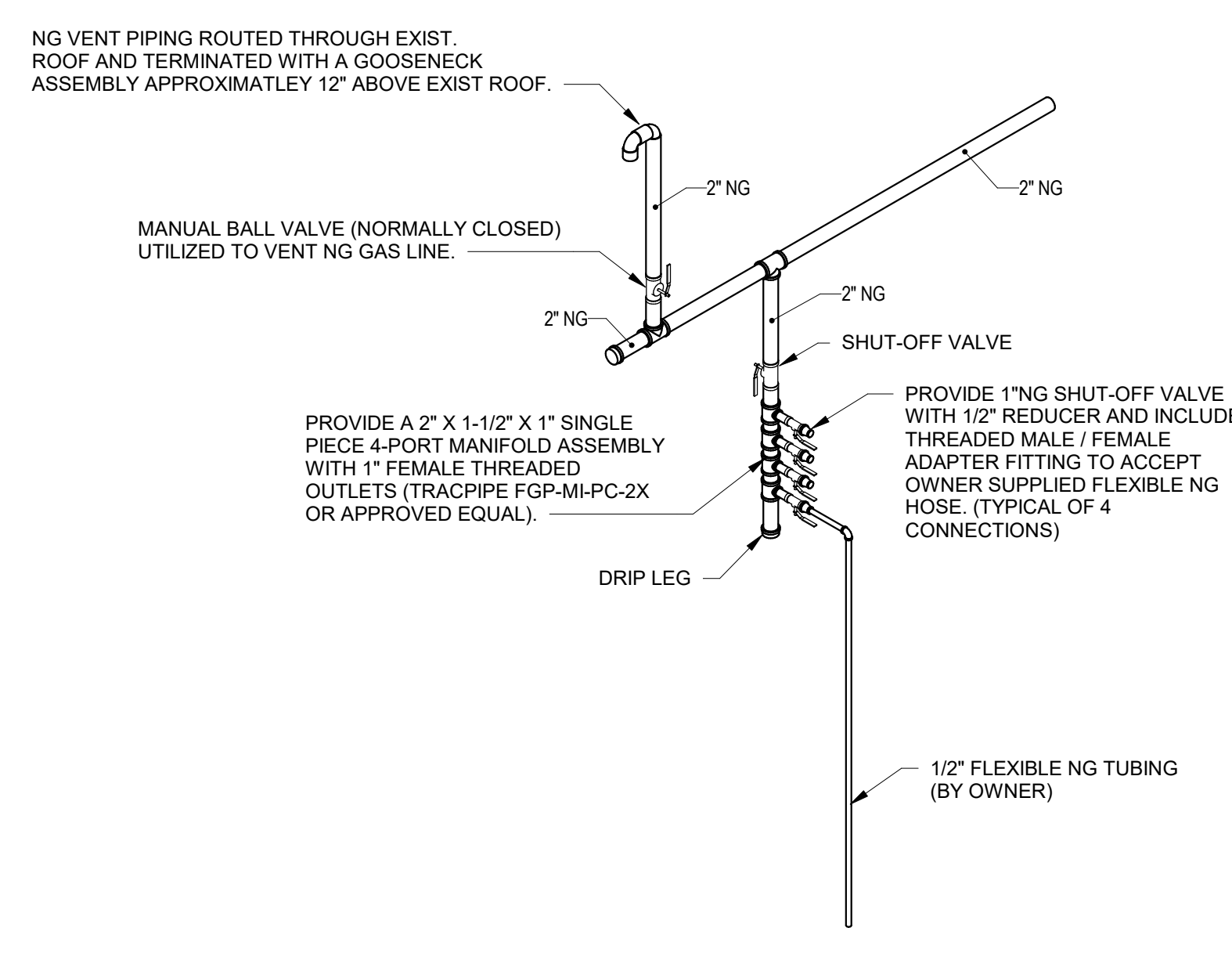
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SHEET TITLE
PLUMBING LEGEND

PLUMBING LEGEND	
— (CW) —	DOMESTIC COLD WATER PIPING
— (HW) —	DOMESTIC HOT WATER PIPING
— (HWR) —	DOMESTIC HOT WATER RECIRCULATING PIPING
— (NG) —	NATURAL GAS PIPING
— (S) —	SANITARY PIPING
— (GR) —	GREASE PIPING
— (V) —	SANITARY VENT PIPING
— (ST) —	STORM DRAIN PIPING - PRIMARY
— (STO) —	STORM DRAIN PIPING - SECONDARY
— (W) —	WATER METER
— (H) —	HOSE BIBB OR WALL HYDRANT
— (B) —	BALL VALVE
— (C) —	CHECK VALVE
— (A) —	BALANCING VALVE
— (G) —	GAS VALVE
— (PRV) —	PRESSURE REDUCING (GAS) VALVE
— (SRV) —	PRESSURE REDUCING VALVE
— (SOL) —	SOLENOID VALVE
— (BPF) —	BACKFLOW PREVENTOR (REDUCED PRESSURE)
● (FD)	FLOOR DRAIN
□ (FS)	FLOOR SINK
● (RD)	ROOF DRAIN

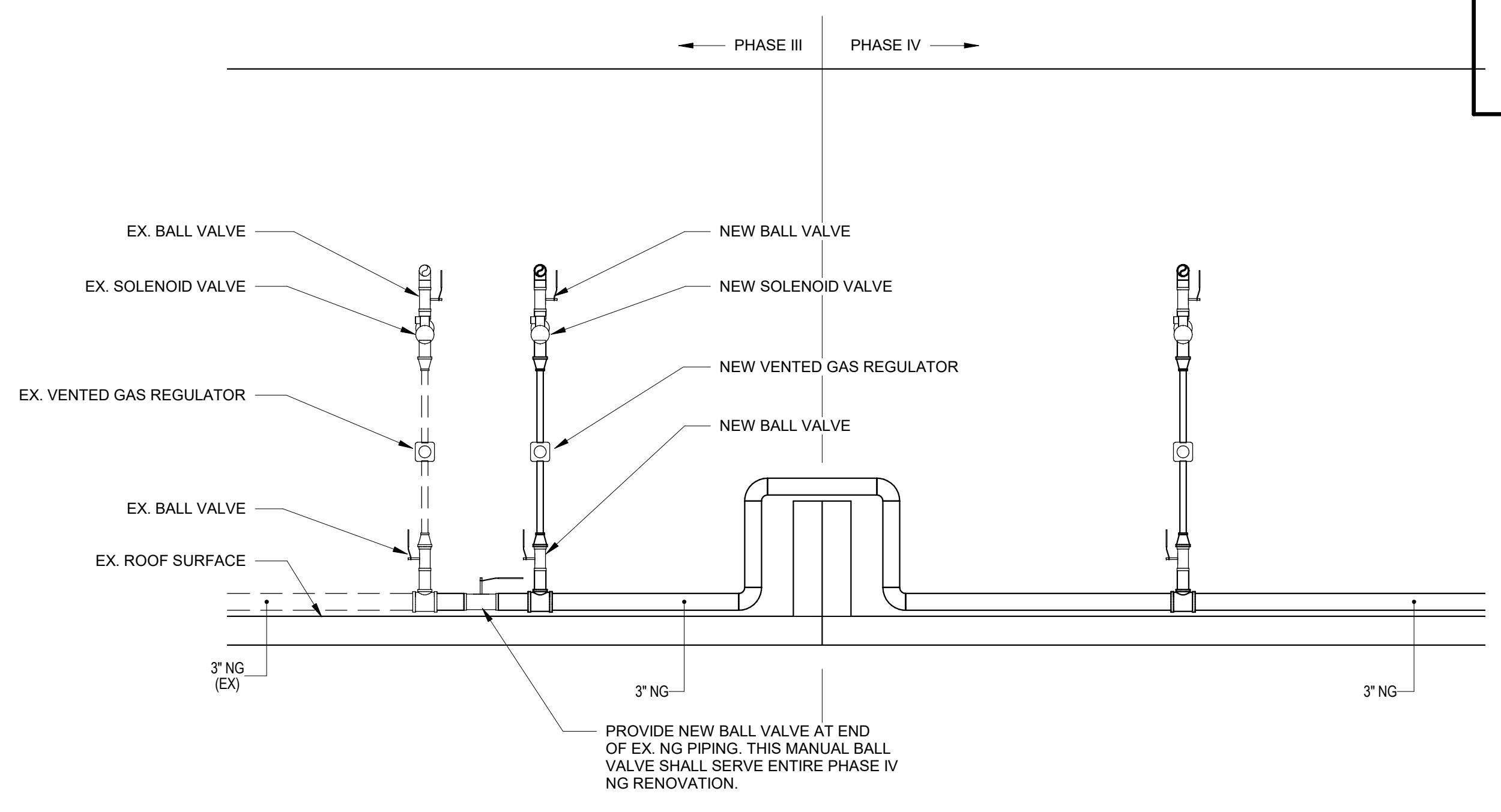
PLUMBING ABBREVIATIONS	
AVV	AIR ADMITTANCE VALVE
AFF	ABOVE FINISH FLOOR
AW	ACID WASTE
AV	ACID VENT
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CF	CUBIC FEET PER HOUR
CO	CLEANOUT
CONT	CONTINUATION
DWG	DRAWING
DHW	DOMESTIC HOT WATER
DHWH	DOMESTIC HOT WATER HEATER
DIS	DEIONIZED WATER SUPPLY
DIR	DEIONIZED WATER RETURN
DN	DOWN
DS	DOWNSPOUT
EXIST	EXISTING
ESH	EMERGENCY SHOWER/EYE WASH
EW	ELECTRIC WATER HEATER
EWV	ELECTRIC WATER VALVE
°F	DEGREE FAHRENHEIT
FF	FLOOR FINISH
FD	FLOOR DRAIN
FS	FLOOR SINK
G	GAS
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
GR	KITCHEN WASTE (GREASE)
HD	HUD DRAIN
HWR	DOMESTIC HOT WATER RECIRCULATING
IE	INVERT ELEVATION
IW	INDIRECT WASTE
KW	KILOWATT
LBS	POUNDS
LCW	LABORATORY COLD WATER
LHW	LABORATORY HOT WATER
LW	LABORATORY WATER CIRCULATING
MH	MANHOLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PEMB	PRE-ENGINEERING METAL BUILDING
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE PIPE
RD	ROOF DRAIN
RBPB	REDUCED PRESSURE BACKFLOW PREVENTOR
SAN	SANITARY
SD	STORM DRAIN
SF	SQUARE FEET
SH	SHEET
STO	OVERFLOW STORM DRAIN
V	VENT
VAC	VACUUM
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
WM	WASHING MACHINE SUPPLY AND DRAIN BOX
WTR	WATER

GENERAL NOTES	
1.	REFERENCE THE SPECIFICATIONS FOR MATERIAL AND EQUIPMENT INSTALLATION STANDARDS.
2.	THE PLUMBING INSTALLATION SHALL COMPLY WITH ALL STATE AND LOCAL CODES.
3.	PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL, AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
4.	PROVIDE ALL OFFSETS AND FITTINGS AND MAKE CONNECTION TO THE SITE UTILITIES.
5.	CONCEAL PIPING ABOVE CEILING, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED.
6.	PROVIDE ACCESS PANELS FOR ALL VALVES CONCEALED IN WALLS OR ABOVE NON-ACCESSIBLE CEILING.
7.	SLEEVE AND/OR FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS, CEILING, AND FLOORS WITH UL LISTED ASSEMBLIES. FIRESTOP ASSEMBLIES SHALL BE EQUAL TO OR EXCEED THE RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
8.	FLASH AND COUNTER-FLASH ROOF PENETRATIONS.
9.	WHEN BEAM SLEEVE PENETRATIONS ARE NECESSARY, COORDINATE PENETRATIONS WITH ALL TRADES, AND THE STRUCTURAL ENGINEER. WRITTEN PERMISSION SHALL BE OBTAINED FROM THE STRUCTURAL ENGINEER BEFORE ANY PENETRATIONS ARE MADE.
10.	PROVIDE FOUNDATION PAD PENETRATION SLEEVES. ALLOW 1" MINIMUM CLEARANCE BETWEEN SLEEVE INSIDE SURFACE AND PIPE EXTERIOR.
11.	SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
12.	PROVIDE AUTOMATIC TRAP PRIMERS FOR FLOOR DRAIN TRAP SEALS.
13.	PROVIDE AN AIR GAP, WHEN REQUIRED BY CODE, SERVING INDIVIDUAL FIXTURE, DEVICES, APPLIANCES AND APPARATUS.
14.	MOUNT HOSE BIBBS 24" ABOVE FINISHED GRADE. PROVIDE EACH HOSE BIBBS WITH ISOLATION VALVE.
15.	PROVIDE CLEANOUTS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. INSTALL CLEANOUT WITH COVER FLUSH TO FINISH SURFACE.
16.	COORDINATE EXACT FLOOR DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS. SET FLOOR DRAINS BELOW FINISHED FLOOR TO ALLOW FOR FLOOR SLOPING TO THE DRAIN.
17.	COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER PANELS SHALL BE RE-ROUTED AT NO ADDITIONAL COST.
18.	ALL WALL MOUNTED LAVATORIES SHALL BE ATTACHED TO FLOOR MOUNTED CARRIER DESIGNED TO WITHSTAND A VERTICAL LOAD OF 250 POUNDS OF THE FRONT OF THE FIXTURE.
19.	PROVIDE SANITARY WASTE, VENT, DOMESTIC WATER, ETC. ROUGH-IN AND MAKE FINAL CONNECTIONS (TO INCLUDE PROVIDING ALL NECESSARY RATED STOPS, VALVES, TRAPS, ETC. AND MAKE READY FOR USE) TO ALL EQUIPMENT, WHETHER FURNISHED BY THIS CONTRACTOR OR FURNISHED BY OTHERS.
20.	INSTALL ISOLATION (SHUT-OFF) VALVES AT ALL MAIN RISERS AND MAIN BRANCH TAKEOFFS, TO PERMIT ISOLATION OF PIPING SECTIONS OR ENTIRE SYSTEM.
21.	PROVIDE RIGID SUPPORT SWAY BRACING AT ALL CHANGES IN DIRECTION GREATER THAN 45 DEGREES ON PIPING 4" AND LARGER.
22.	PROVIDE FIRE WATCH AND INTERIM FIRE PROTECTION MEASURES WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION, INSURANCE CARRIER OR OWNER DURING TIMES OF ANY ACTIVE WELDING EVENTS.

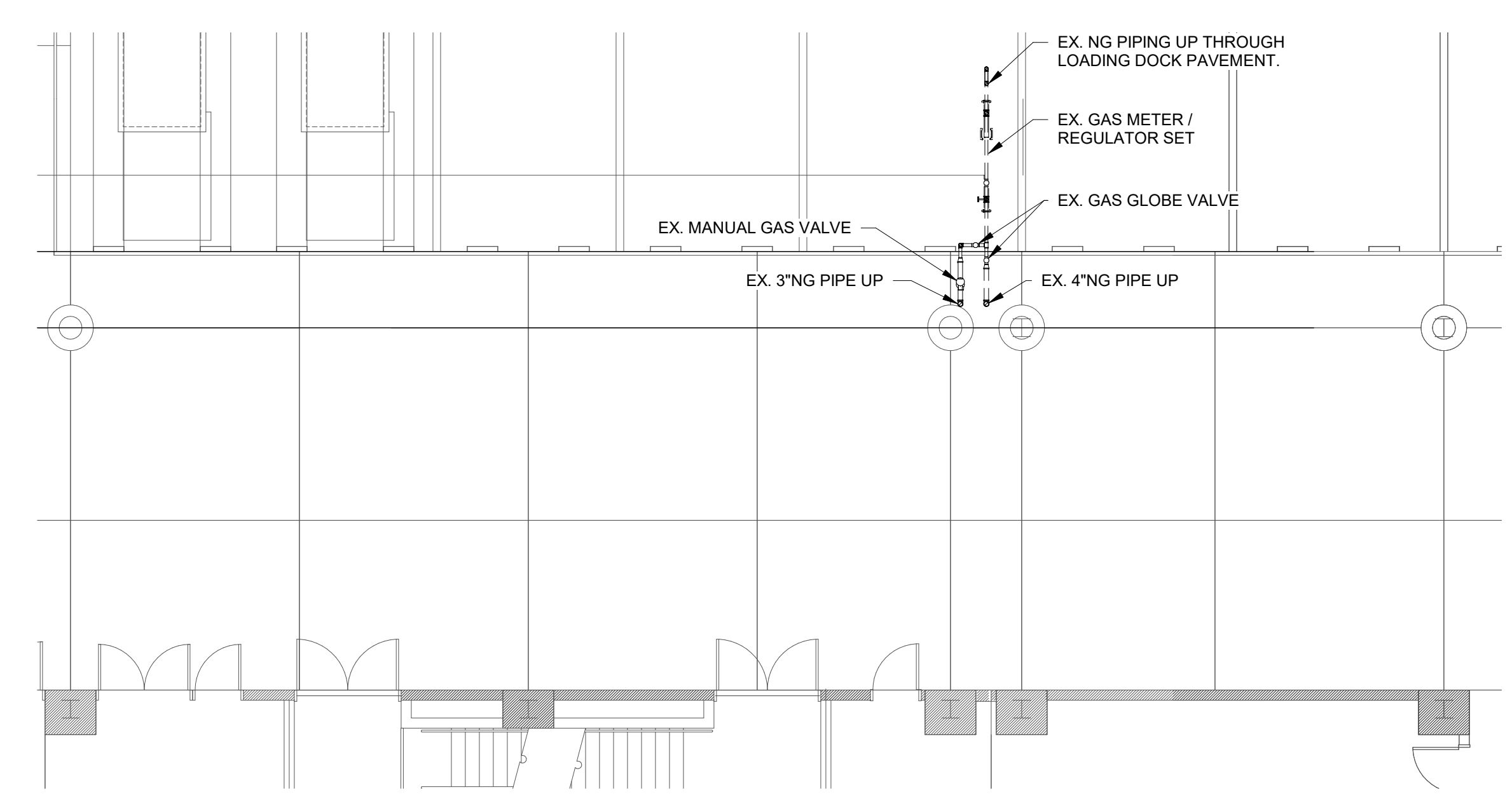
CODE COMPLIANCE	
1.	THESE DRAWINGS ARE PREPARED TO COMPLY WITH CURRENT FLORIDA BUILDING CODE, THE CURRENT FLORIDA FIRE PREVENTION CODE, AND OTHER SUCH CODES AS MAY BE REFERENCED.



2 NATURAL GAS ISOMETRIC/RISER OF TYP. CONNECTION DROP
SCALE:



3 SOUTH ELEVATION - NEW CONNECTION TIE-IN
SCALE: 1/2" = 1'-0"



4 PLUMBING OVERALL FLOOR PLAN - LEVEL 2
SCALE: 1/8" = 1'-0"

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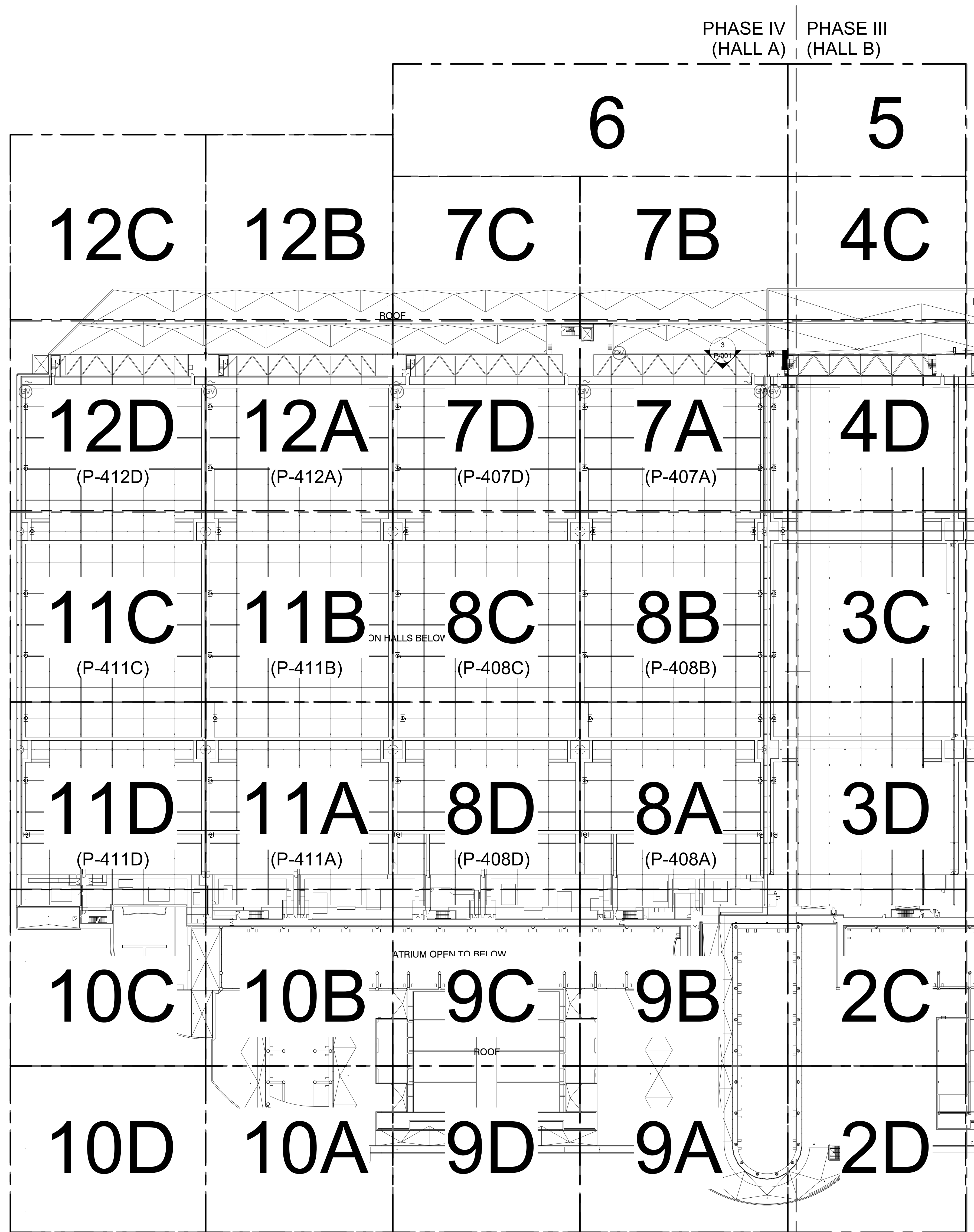
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1 PLUMBING OVERALL FLOOR PLAN - LEVEL 4
SCALE: 1" = 50'-0"

KEYPLAN

		6		5
12C	12B	7C	7B	4C
12D	12A	7D	7A	4D
11C	11B	8C	8B	3C
11D	11A	8D	8A	3D
10C	10B	9C	9B	2C
10D	10A	9D	9A	2D



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COA #27158
Project No: 03.18007
Engineer of Record:
L. Roland Young, Jr.
P.E. #xxxx



Orange
County
Convention
Center

SEAL
OCCC - WEST
BUILDING, HALL "A"
NATURAL GAS
RETROFIT

9800 International Dr.
Orlando, FL. 32819

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MARK	DATE	DESCRIPTION

ISSUE: 11/30/18
PROJECT NO: 17G0189
DESIGN BY: RJS
DRAWN BY: RJS
REVIEWED BY:

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SHEET TITLE
LEVEL 4 OVERALL
PLAN - PLUMBING

100% CD'S
P-400



**Orange
 County
 Convention
 Center**

SEAL
**OCDC - WEST
 BUILDING, HALL "A"
 NATURAL GAS
 RETROFIT**

9800 International Dr.
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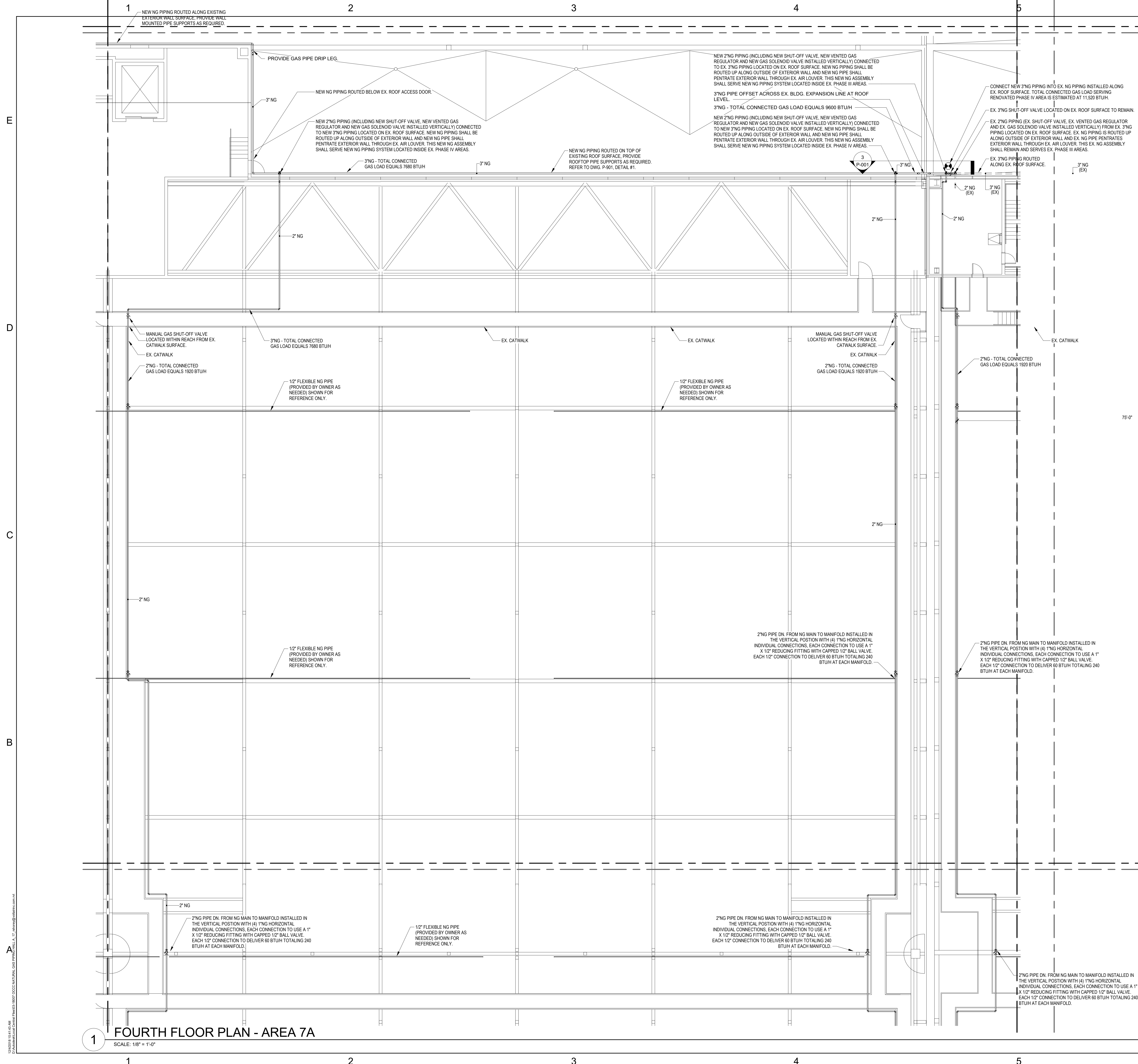
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SHEET TITLE
**PARTIAL LEVEL 4
 PLAN - AREA 7A -
 PLUMBING**

100% CD'S
P-407A

PRESSURE GENERAL NOTES

- NATURAL GAS PIPING SHOWN INSIDE THE EXISTING BUILDINGS ENVELOPE AND ABOVE CONVENTION FLOOR AREA SHALL BE INSTALLED ABOVE EXISTING CATWALK PATHS. GAS PIPING SHALL BE OFFSET TOWARDS THE RAIL SIDE OF CATWALK PATH TO ALLOW READY ACCESS TO NEW GAS PIPING DROPS TO MANIFOLD AND VALVE ASSEMBLIES AND TO KEEP CATWALK PATH CLEAR.
- NATURAL GAS MANIFOLD SHALL BE INSTALLED IN THE VERTICAL POSITION AND VALVE ASSEMBLIES SHALL BE INSTALLED IN A HORIZONTAL POSITION.
- HORIZONTAL NATURAL GAS VALVE ASSEMBLIES SHALL BE INSTALLED 5'-0" OFF OF EXISTING CATWALK SURFACE (SO THE MIDDLE OF VALVE ASSEMBLY IS 5'-0" ABOVE CATWALK SURFACE).

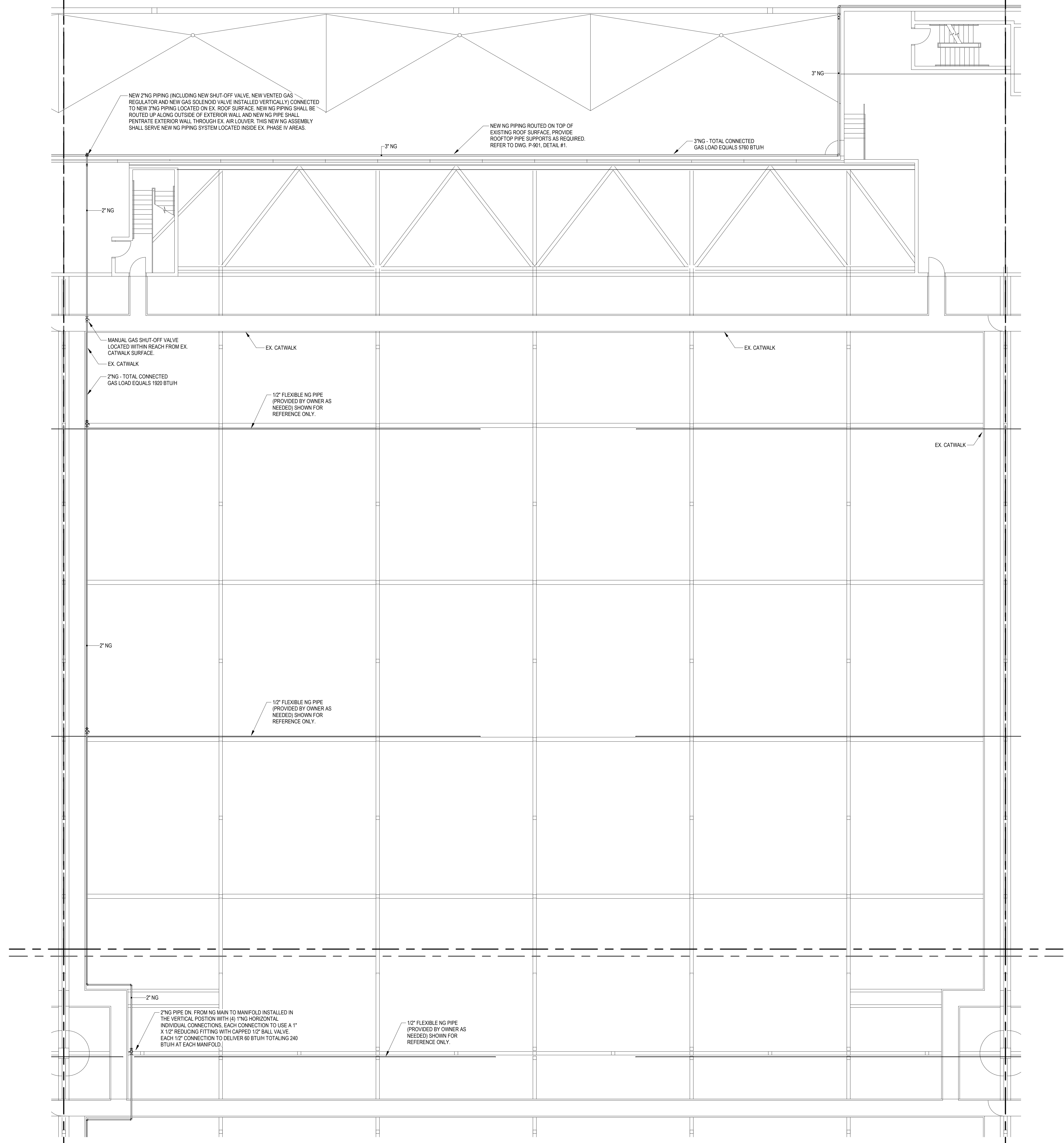


FOURTH FLOOR PLAN - AREA 7A
 SCALE: 1/8" = 1'-0"

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1 FOURTH FLOOR PLAN - AREA 7D
SCALE: 1/8" = 1'-0"

6 PRESSURE GENERAL NOTES

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SEAL
OCCC - WEST BUILDING, HALL "A"
NATURAL GAS RETROFIT

KEYPLAN

		6	5	
12C	12B	7C	7B	4C
12D	12A	7D	7A	4D
11C	11B	8C	8B	3C
11D	11A	8D	8A	3D
10C	10B	9C	9B	2C
10D	10A	9D	9A	2D

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SHEET TITLE
PARTIAL LEVEL 4
PLAN - AREA 7D -
PLUMBING

100% CD'S
P-407D

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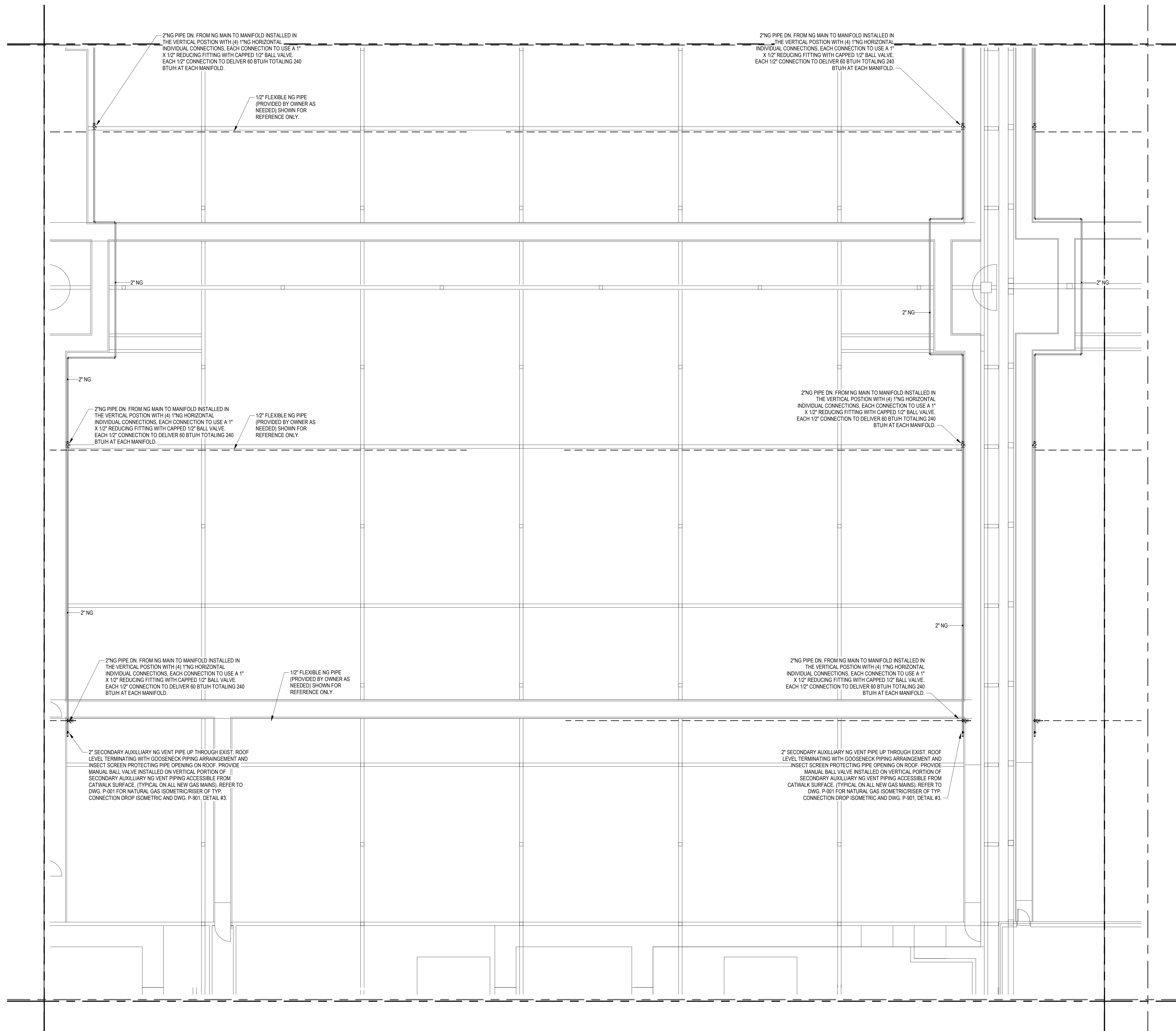
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 SHEET TITLE
 PARTIAL LEVEL 4
 PLAN -AREA 8A -
 PLUMBING

100% CD'S
 P-408A

1 FOURTH FLOOR PLAN - AREA 8A
 SCALE: 1/8" = 1'-0"

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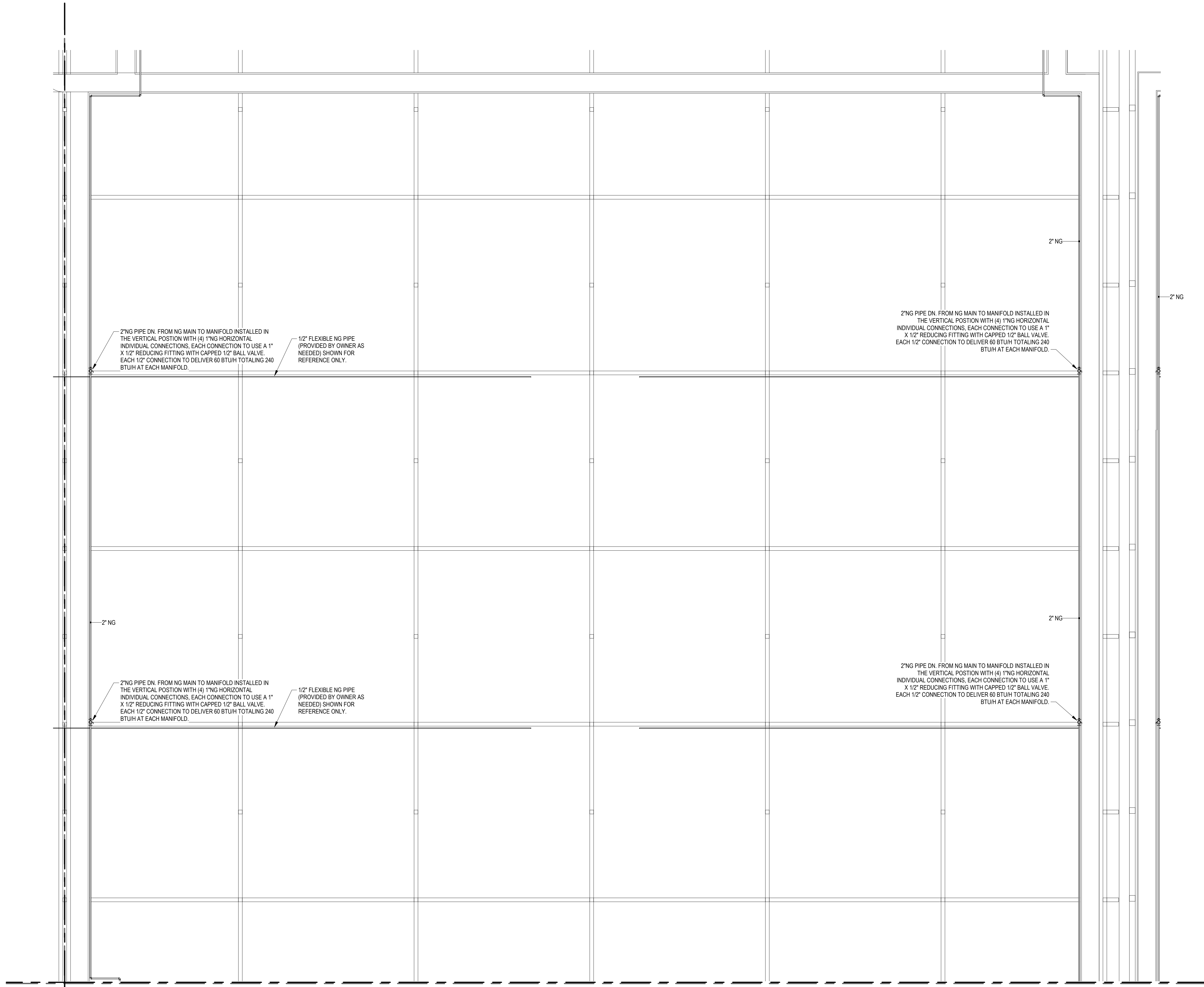
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1 FOURTH FLOOR PLAN - AREA 8B
SCALE: 1/8" = 1'-0"

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SEAL

**OCCE - WEST
BUILDING, HALL "A"
NATURAL GAS
RETROFIT**

KEYPLAN

			6	5	
12C	12B	7C	7B	4C	
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SHEET TITLE
**PARTIAL LEVEL 4
PLAN - AREA 8B -
PLUMBING**

100% CD'S
P-408B

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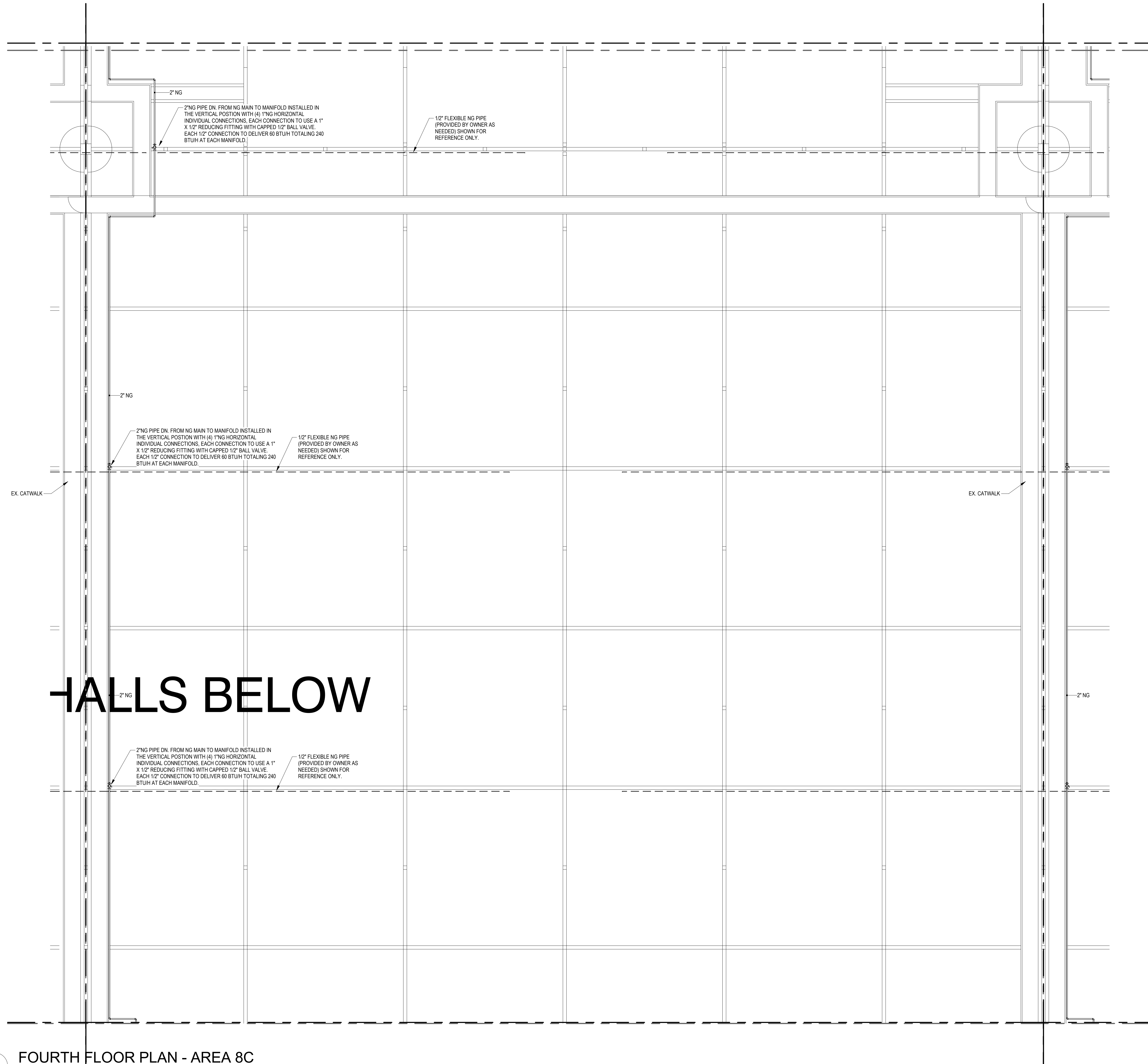
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1 FOURTH FLOOR PLAN - AREA 8C
SCALE: 1/8" = 1'-0"

PRESSURE GENERAL NOTES

- NATURAL GAS PIPING SHOWN INSIDE THE EXISTING BUILDINGS ENVELOPE AND ABOVE CONVENTION FLOOR AREA SHALL BE INSTALLED ABOVE EXISTING CATWALK PATHS. GAS PIPING SHALL BE OFFSET TOWARDS THE RAIL SIDE OF CATWALK PATH TO ALLOW READY ACCESS TO NEW GAS PIPING DROPS TO MANIFOLD AND VALVE ASSEMBLIES AND TO KEEP CATWALK PATH CLEAR.
- NATURAL GAS MANIFOLD SHALL BE INSTALLED IN THE VERTICAL POSITION AND VALVE ASSEMBLIES SHALL BE INSTALLED IN A HORIZONTAL POSITION.
- HORIZONTAL NATURAL GAS VALVE ASSEMBLIES SHALL BE INSTALLED 5'-0" OFF OF EXISTING CATWALK SURFACE (SO THE MIDDLE OF VALVE ASSEMBLY IS 5'-0" ABOVE CATWALK SURFACE).



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Engineer of Record:
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P.E. #xxxx



SEAL
OCCC - WEST BUILDING, HALL "A"
NATURAL GAS RETROFIT

KEYPLAN

		6	5	
12C	12B	7C	7B	4C
12D	12A	7D	7A	4D
11C	11B	8C	8B	3C
11D	11A	8D	8A	3D
10C	10B	9C	9B	2C
10D	10A	9D	9A	2D

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PARTIAL LEVEL 4
PLAN - AREA 8C -
PLUMBING

100% CD'S
P-408C

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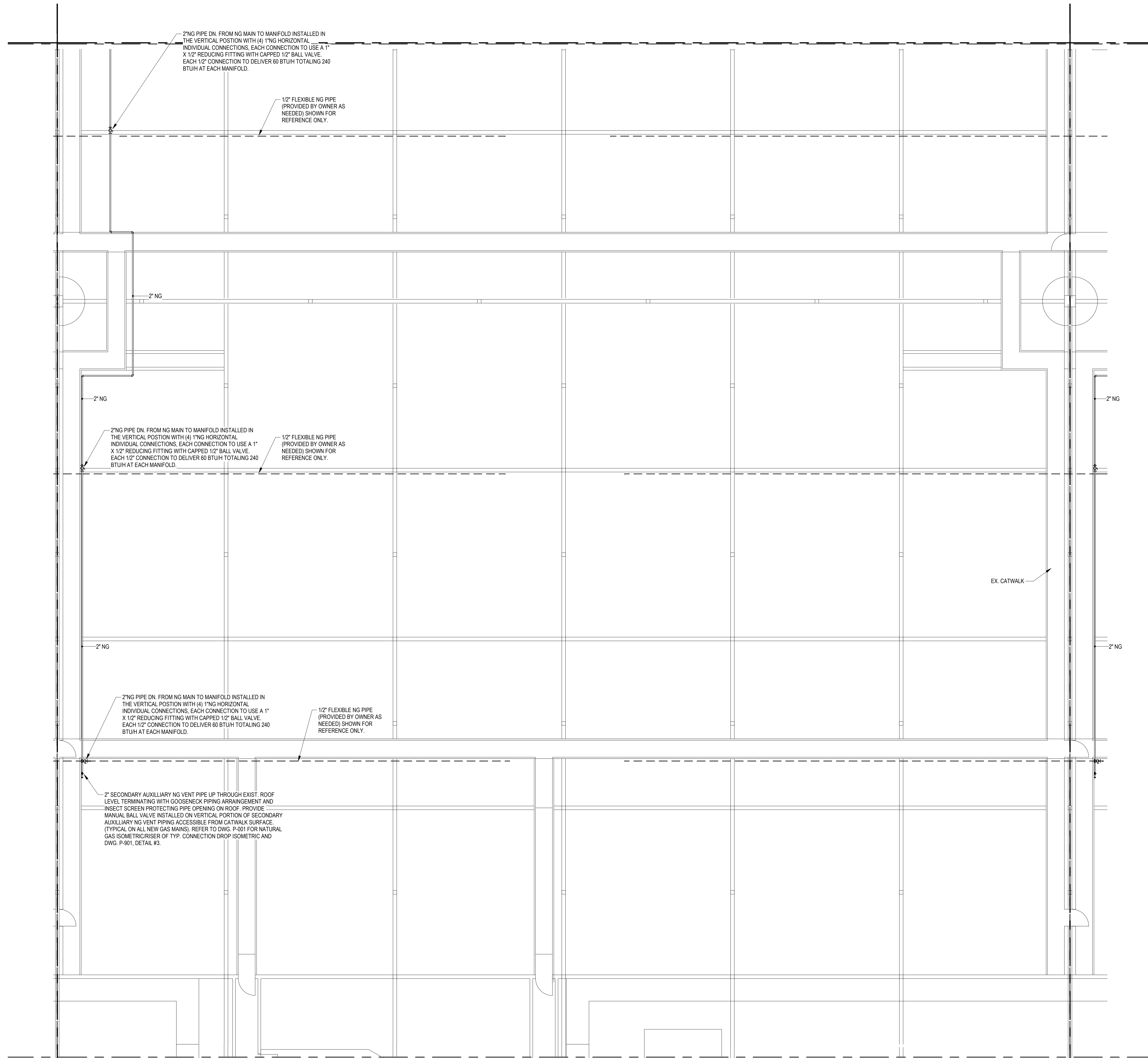
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1 FOURTH FLOOR PLAN - AREA 8D
SCALE: 1/8" = 1'-0"

PRESSURE GENERAL NOTES

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NATURAL GAS
RETROFIT

KEYPLAN

		6		5
12C	12B	7C	7B	4C
12D	12A	7D	7A	4D
11C	11B	8C	8B	3C
11D	11A	8D	8A	3D
10C	10B	9C	9B	2C
10D	10A	9D	9A	2D

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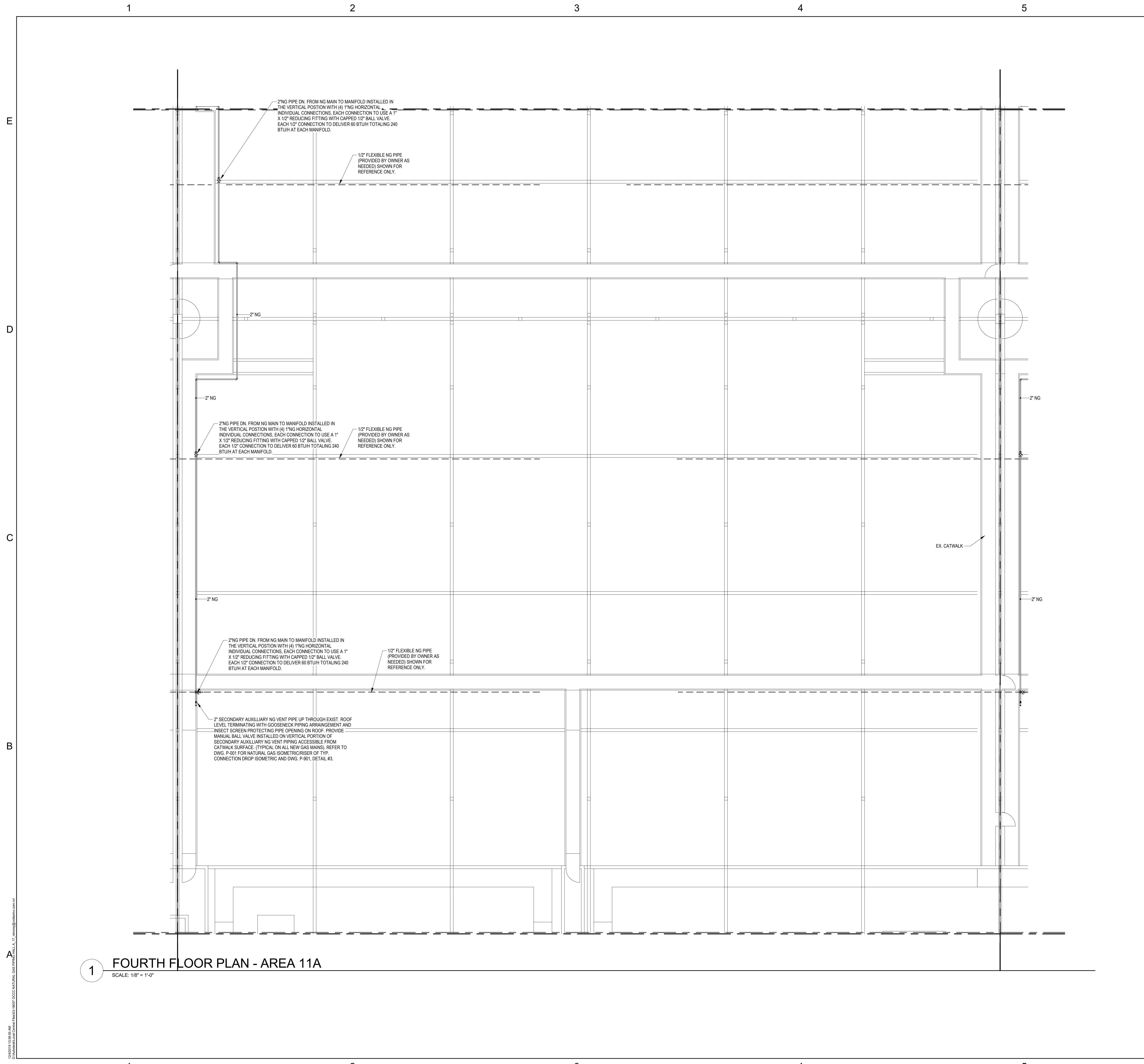
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1 FOURTH FLOOR PLAN - AREA 11A
SCALE: 1/8" = 1'-0"

6 PRESSURE GENERAL NOTES

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KEYPLAN

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12C	12B	7C	7B	4C	
12D	12A	7D	7A	4D	
11C	11B	8C	8B	3C	
11D	11A	8D	8A	3D	
10C	10B	9C	9B	2C	
10D	10A	9D	9A	2D	

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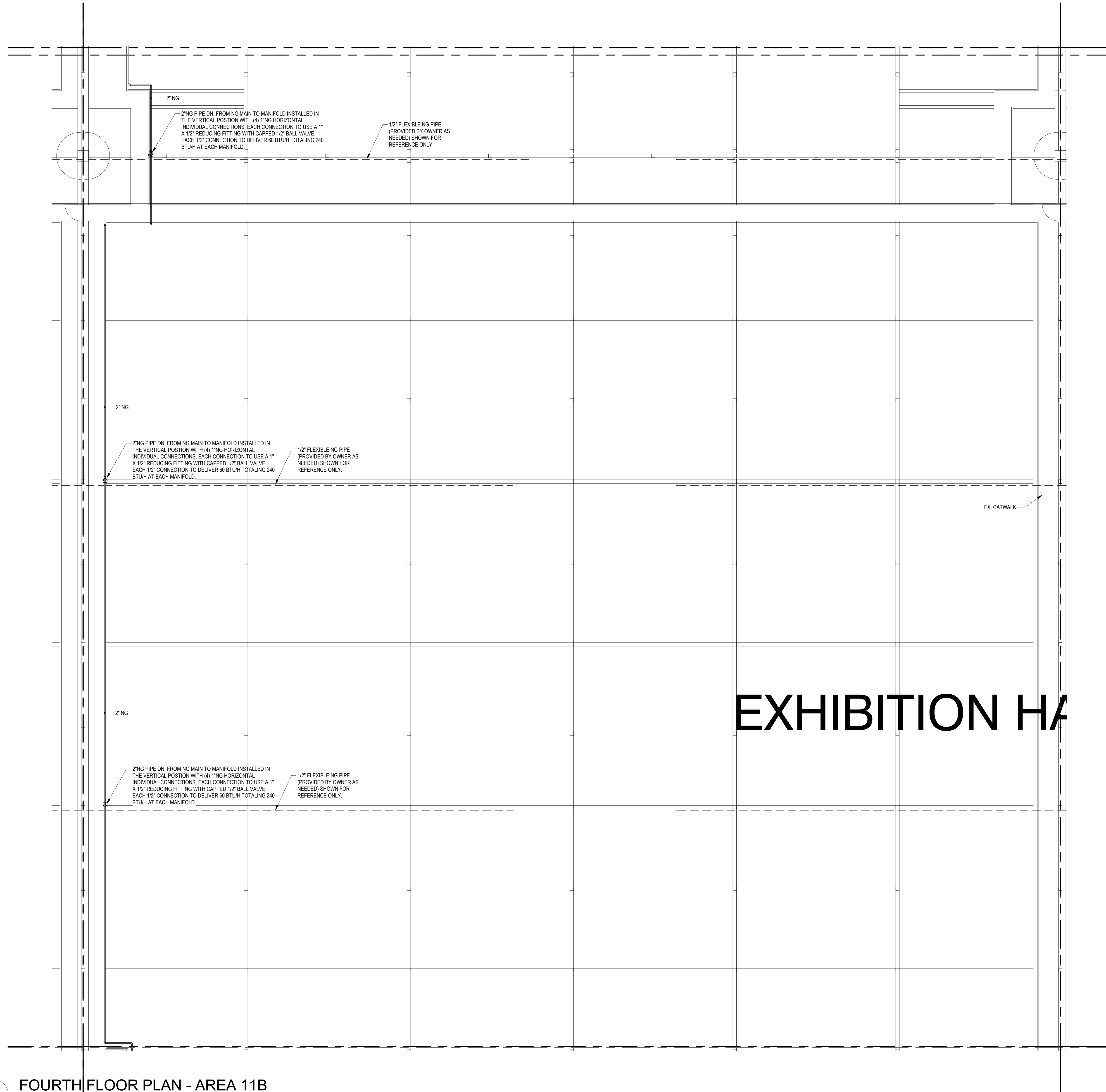
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1 FOURTH FLOOR PLAN - AREA 11B
SCALE: 1/8" = 1'-0"

PRESSURE GENERAL NOTES

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NATURAL GAS
RETROFIT

KEYPLAN

			6	5	
12C	12B	7C	7B	4C	
12D	12A	7D	7A	4D	
11C	11B	8C	8B	3C	
11D	11A	8D	8A	3D	
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10D	10A	9D	9A	2D	

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12C	12B	7C	7B	4C	
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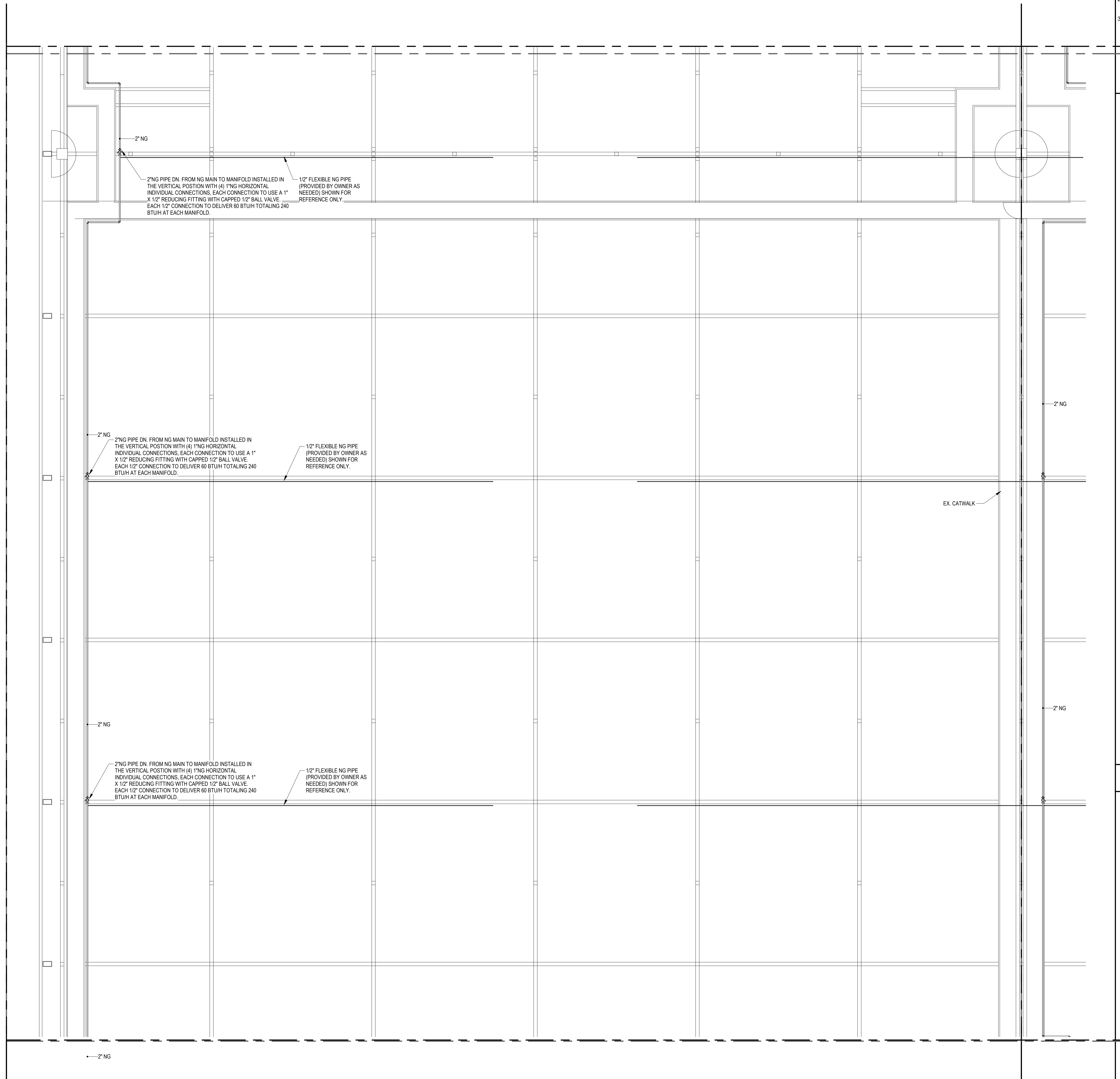
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PARTIAL LEVEL 4
PLAN - AREA 11C -
PLUMBING

100% CD'S

P-411C



2" NG
2" NG PIPE DN. FROM NG MAIN TO MANIFOLD INSTALLED IN THE VERTICAL POSITION WITH (4) 1" NG HORIZONTAL INDIVIDUAL CONNECTIONS. EACH CONNECTION TO USE A 1" X 1/2" REDUCING FITTING WITH CAPPED 1/2" BALL VALVE. EACH 1/2" CONNECTION TO DELIVER 60 BTUH TOTALING 240 BTUH AT EACH MANIFOLD.

1/2" FLEXIBLE NG PIPE (PROVIDED BY OWNER AS NEEDED) SHOWN FOR REFERENCE ONLY.

2" NG
2" NG PIPE DN. FROM NG MAIN TO MANIFOLD INSTALLED IN THE VERTICAL POSITION WITH (4) 1" NG HORIZONTAL INDIVIDUAL CONNECTIONS. EACH CONNECTION TO USE A 1" X 1/2" REDUCING FITTING WITH CAPPED 1/2" BALL VALVE. EACH 1/2" CONNECTION TO DELIVER 60 BTUH TOTALING 240 BTUH AT EACH MANIFOLD.

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1/2" FLEXIBLE NG PIPE (PROVIDED BY OWNER AS NEEDED) SHOWN FOR REFERENCE ONLY.

1 FOURTH FLOOR PLAN - AREA 11C
SCALE: 1/8" = 1'-0"

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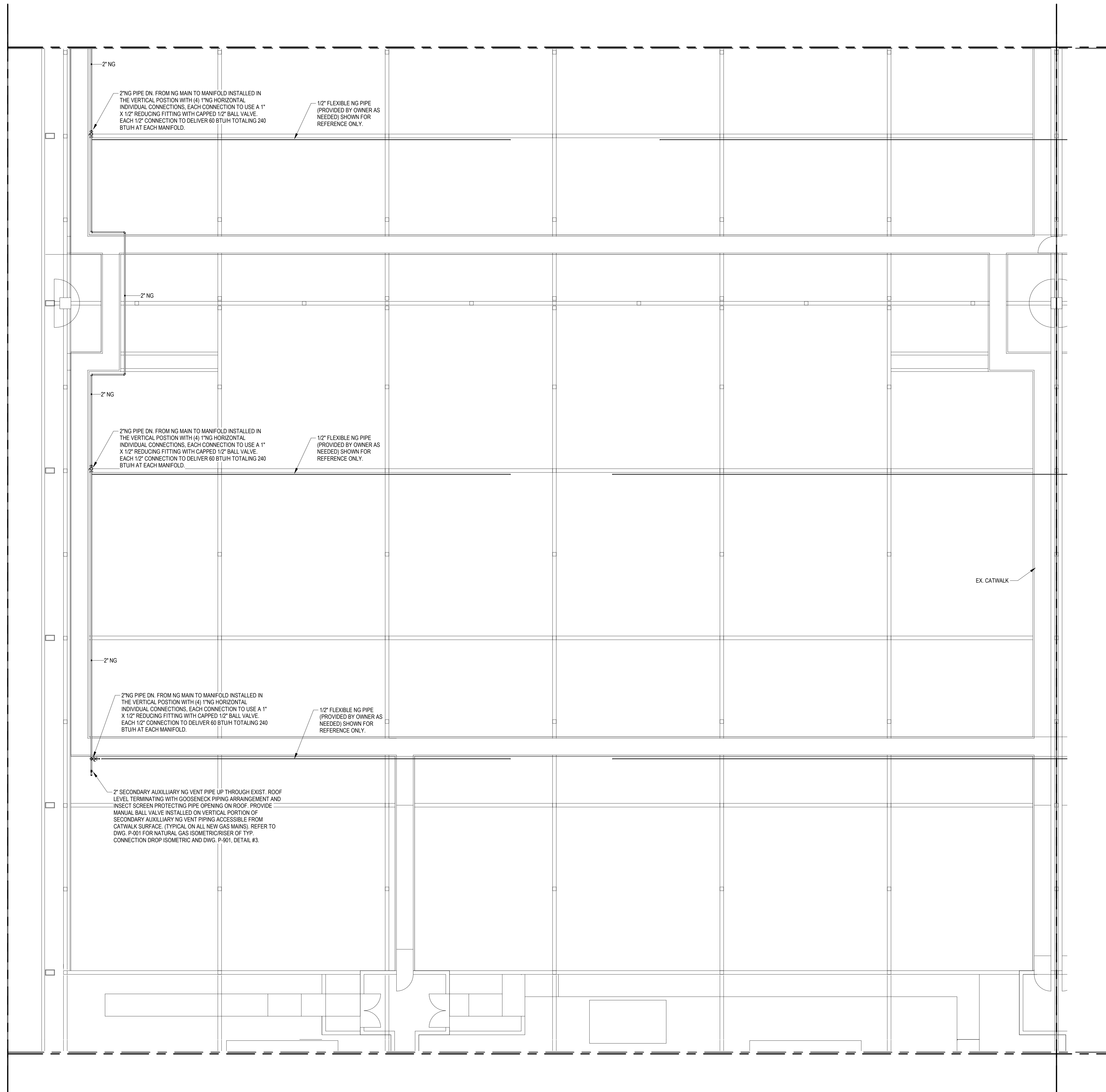
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1 FOURTH FLOOR PLAN - AREA 11D
SCALE: 1/8" = 1'-0"

PRESSURE GENERAL NOTES

- NATURAL GAS PIPING SHOWN INSIDE THE EXISTING BUILDINGS ENVELOPE AND ABOVE CONVENTION FLOOR AREA SHALL BE INSTALLED ABOVE EXISTING CATWALK PATHS. GAS PIPING SHALL BE OFFSET TOWARDS THE RAIL SIDE OF CATWALK PATH TO ALLOW READY ACCESS TO NEW GAS PIPING DROPS TO MANIFOLD AND VALVE ASSEMBLIES AND TO KEEP CATWALK PATH CLEAR.
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SEAL
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NATURAL GAS RETROFIT

KEYPLAN

			6	5	
12C	12B	7C	7B	4C	
12D	12A	7D	7A	4D	
11C	11B	8C	8B	3C	
11D	11A	8D	8A	3D	
10C	10B	9C	9B	2C	
10D	10A	9D	9A	2D	

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PLAN - AREA 11D -
PLUMBING

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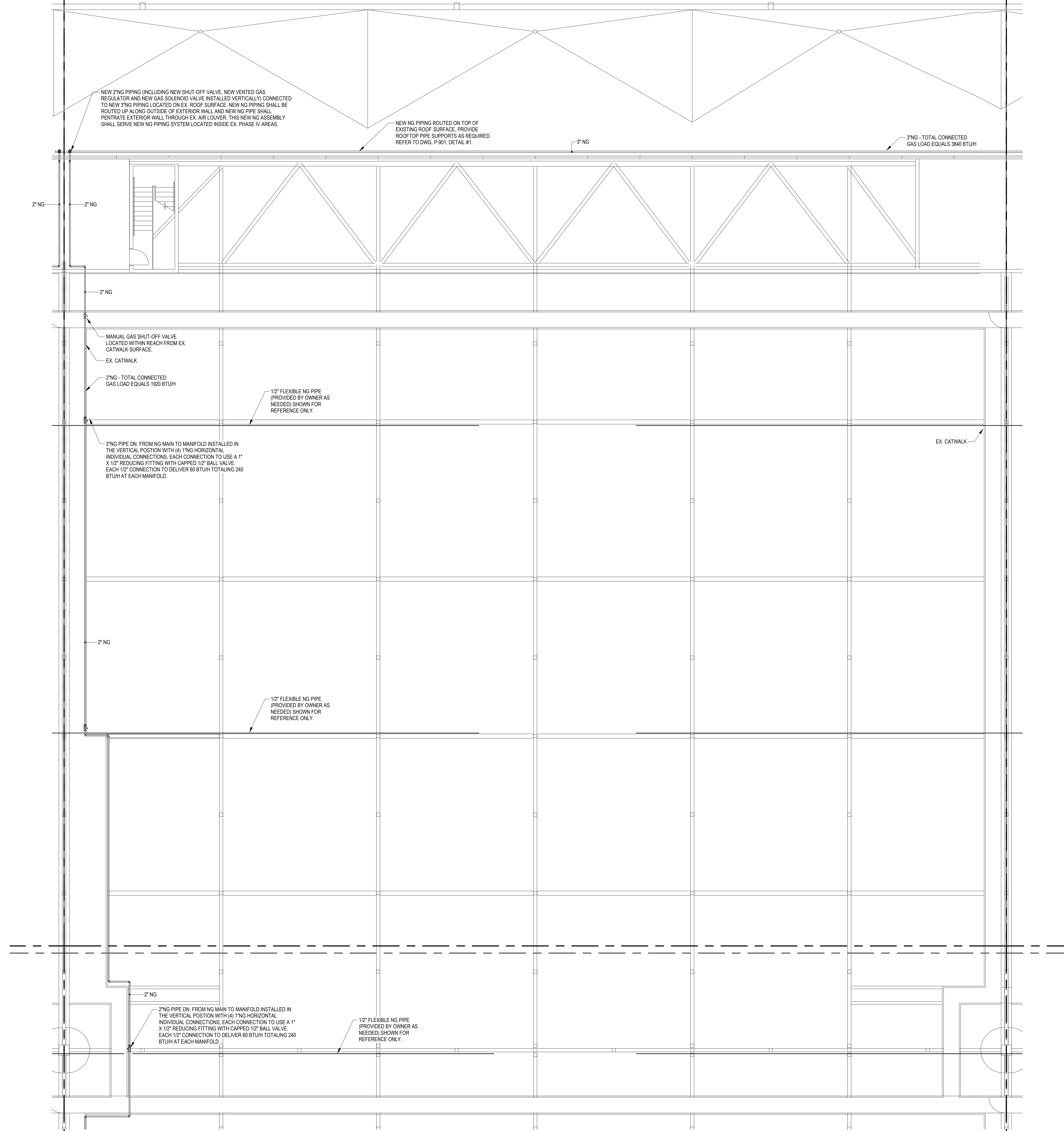
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1 FOURTH FLOOR PLAN - AREA 12A
SCALE: 1/8" = 1'-0"

PRESSURE GENERAL NOTES

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NATURAL GAS
RETROFIT

KEYPLAN

			6	5	
12C	12B	7C	7B	4C	
12D	12A	7D	7A	4D	
11C	11B	8C	8B	3C	
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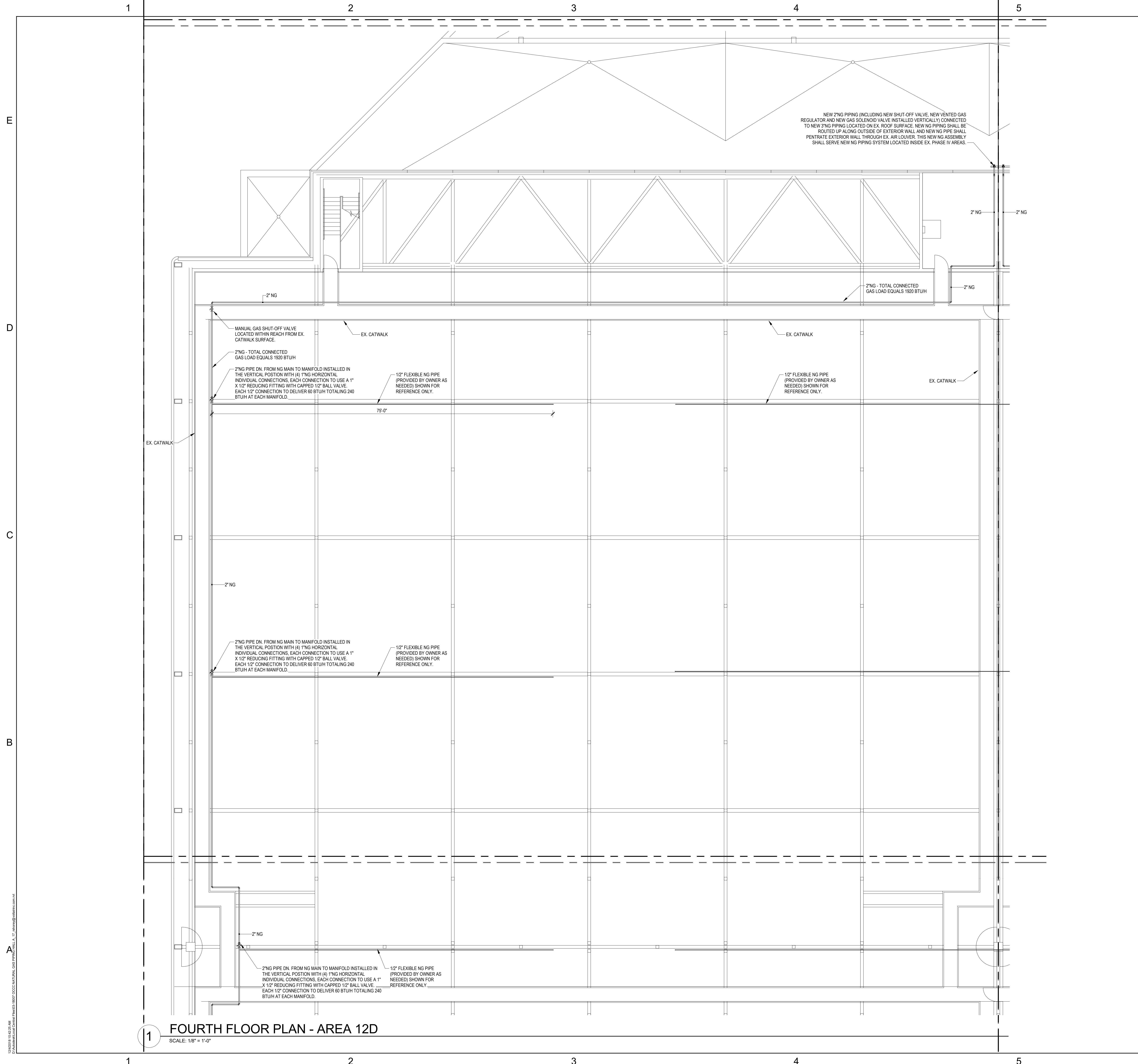
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PLUMBING

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PRESSURE GENERAL NOTES

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SEAL
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KEYPLAN

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12D	12A	7D	7A	4D
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11D	11A	8D	8A	3D
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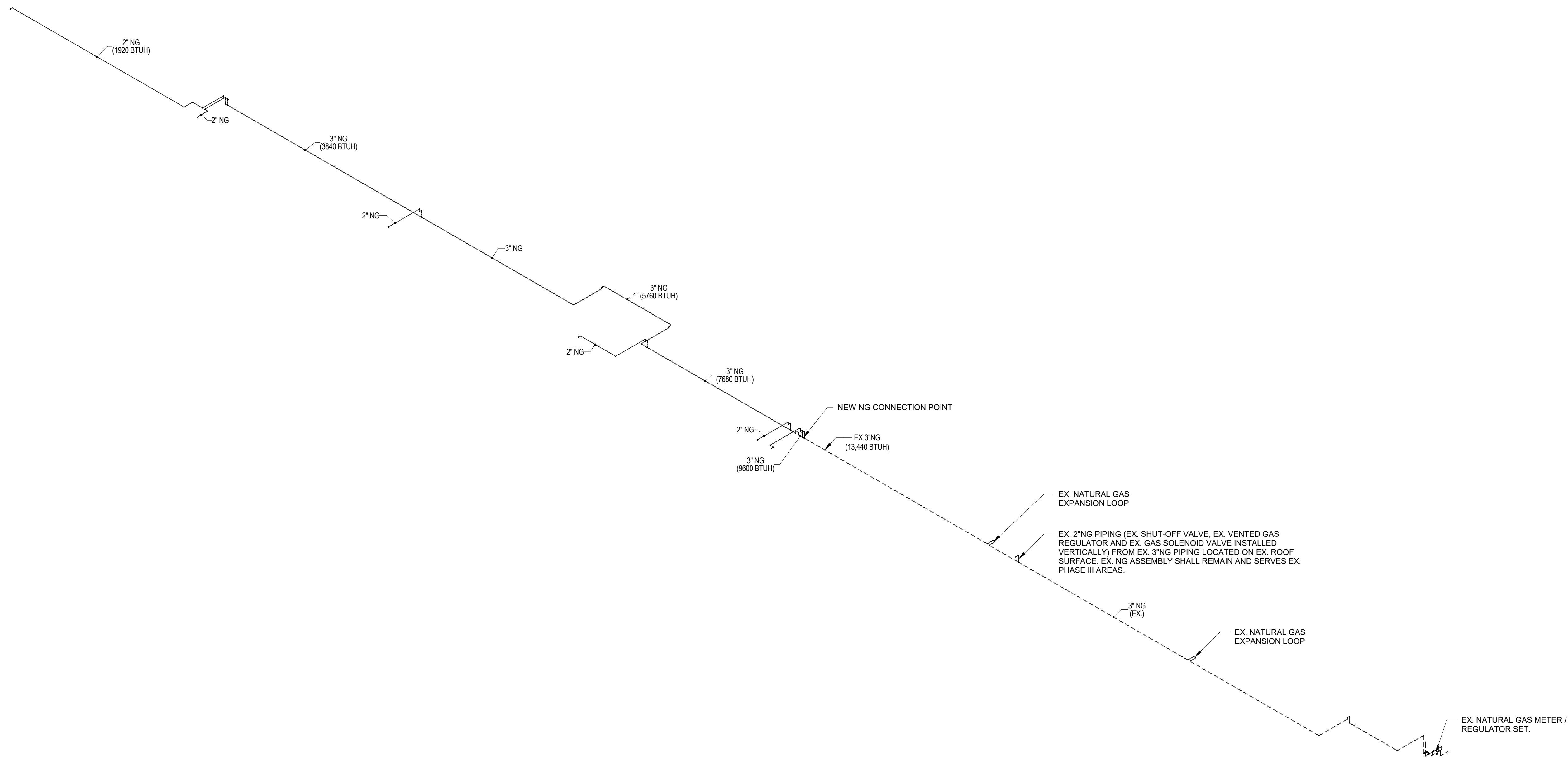
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1 FOURTH FLOOR PLAN - AREA 12D
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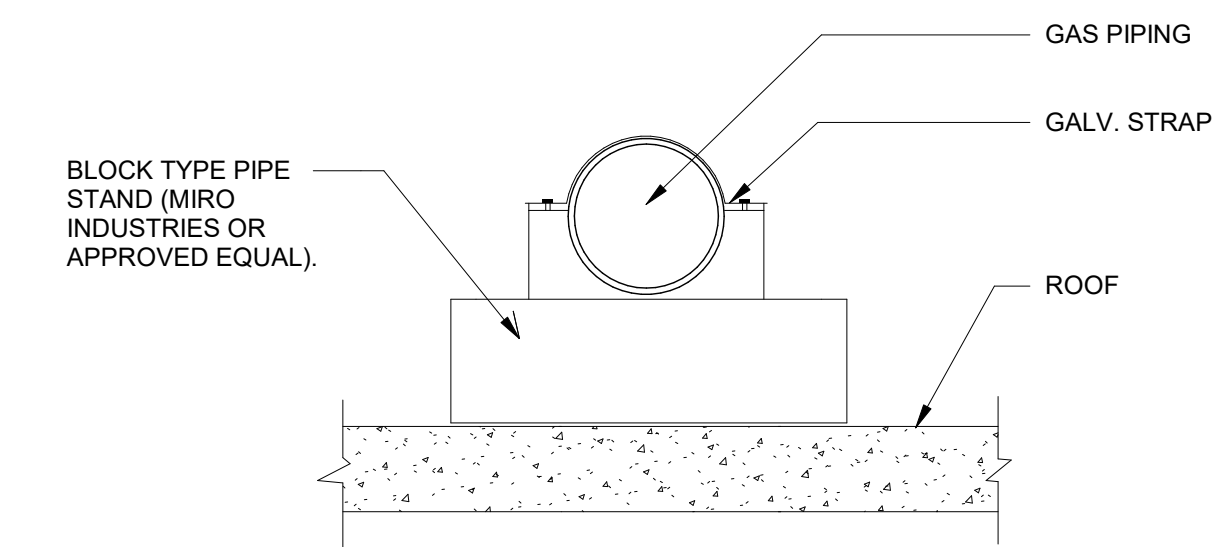
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NATURAL GAS
ISOMETRIC

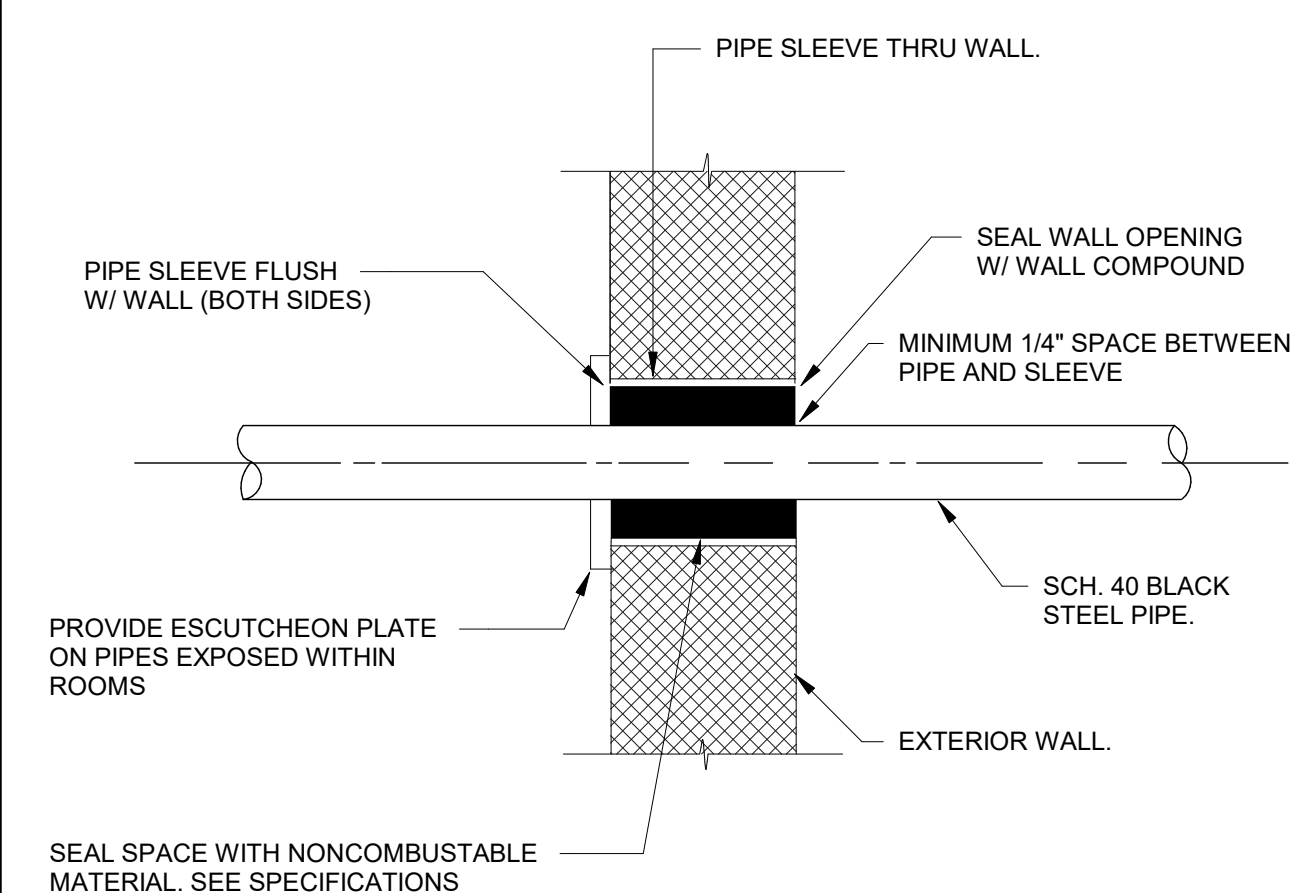
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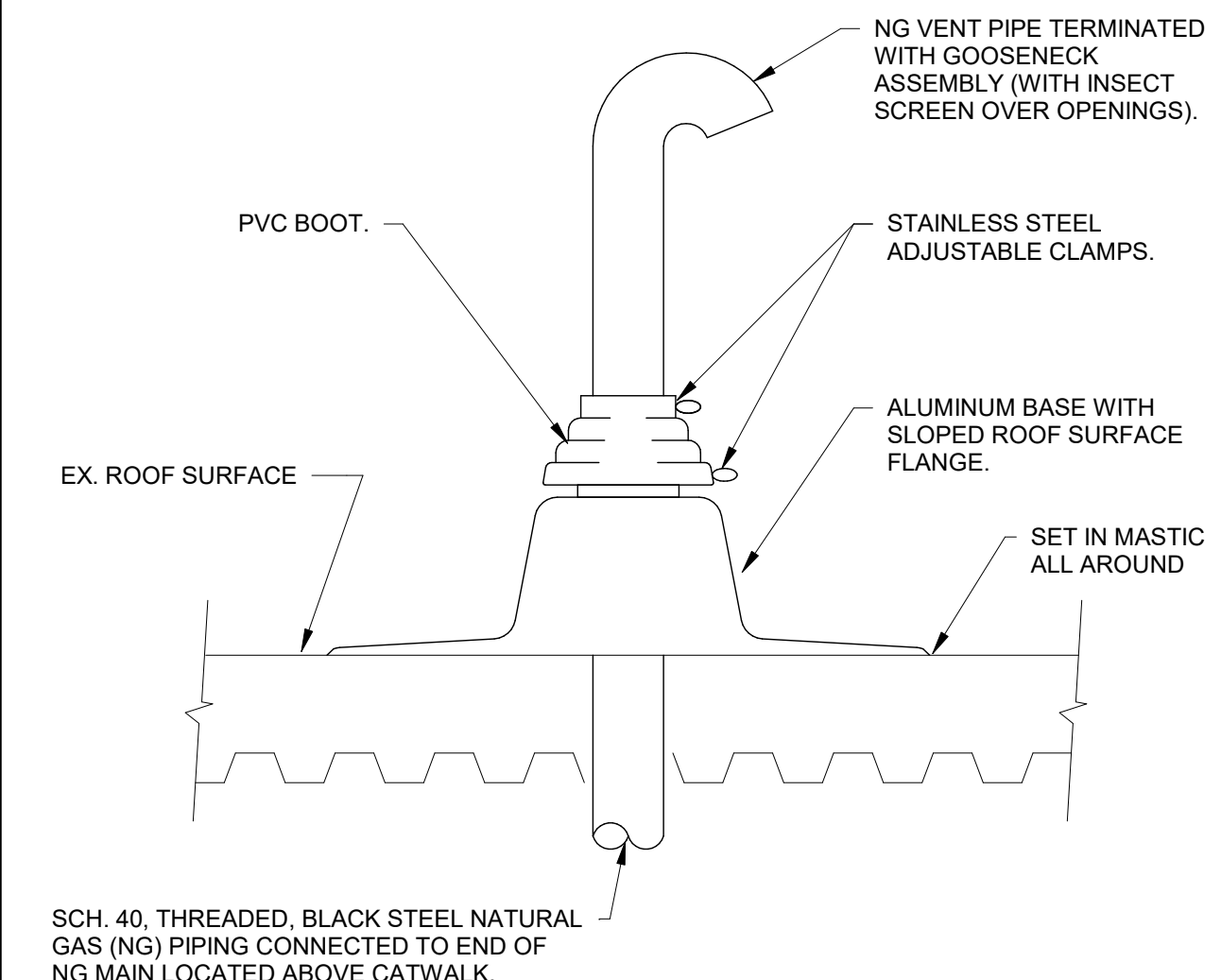


- NOTES:**
- BLOCK PIPE STANDS TO BE SPACED NO MORE THAN 10'-0" ON CENTER OR CLOSER IF REQUIRED BY LOAD OR ROOF STRUCTURE.
 - PROVIDE 12 GA. GALVANIZED STRAP, ATTACH TO PILLOW BLOCK PIPE STAND W/ CADMIUM PLATED SCREWS (SIZE AS REQUIRED)

GAS PIPE SUPPORT 1



PIPE SLEEVE THROUGH RATED WALL 2



- NOTE:**
- PIPE SEAL ASSEMBLY SHALL UTILIZE ONE PIECE SPUN ALUMINUM BASE WITH FULL FIVE INCH SLOPED ROOF SURFACE FLANGE WITH GRADUATED STEP PVC BOOT AND ADJUSTABLE STAINLESS STEEL CLAMPS EQUAL TO THE PATE COMPANY OR APPROVED EQUAL.

PIPING ROOF PENETRATION DETAIL 3



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PLUMBING DETAILS

ABBREVIATIONS

Table of abbreviations for electrical symbols, including AC, AFF, AFG, AHU, AL, APPROX, ASC, ATC, ATM, BG, BLDG, °C, C, CB, CDT, CONC, CT, EDH, EF, ELEC, EM, EPO, EWC, EWH, EX, EXTR, °F, FAAP, FACP, FATC, FCU, FLA, FT, FTU, GAP, GFI, GND, HP, HZ, ID, IN, KVA, LA, LRA, MAX, MIB, MCA, MDF, MHI, °C, NC, NIC, NF, NL, NTS, OAU, OHE, P, PH, POAU, PTAC, R, REF, RLA, RTU, SCP, SH, SF, SHT, TTB, TTC, TYP, UGE, UNO, U.N.O., VAV, VFD, WH, WP, etc.

ELECTRICAL SYMBOL LEGEND

LIGHTING

Table of lighting symbols and descriptions, including HT AFF, SYMBOL, DESCRIPTION, and LIGHTING SYMBOL NOTES.

DEVICES

Table of device symbols and descriptions, including HT AFF, SYMBOL, DESCRIPTION, and AS NOTED.

RACEWAY & CONDUCTORS

Table of raceway and conductor symbols and descriptions, including HT AFF, SYMBOL, DESCRIPTION, and AS NOTED.

EQUIPMENT

Table of equipment symbols and descriptions, including SYMBOL, DESCRIPTION, and AS NOTED.

ELECTRICAL GENERAL NOTES

- 1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2014 NATIONAL ELECTRICAL CODE, THE FLORIDA BUILDING CODE, THE NATIONAL FIRE CODES, STATE REQUIREMENTS AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
2. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND ALL REQUIREMENTS NOT INDICATED ON THE DRAWINGS.
3. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT.
4. THE PLANS AND SPECIFICATIONS ARE COMPLEMENTARY, AND THAT WHICH IS CALLED FOR BY ONE SHALL BE AS BINDING AS IF CALLED FOR BY BOTH.
5. THE PLANS INDICATE THE GENERAL ARRANGEMENT OF THE WORK TO BE PERFORMED AND ARE DIAGRAMMATIC ONLY.
6. VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS.
7. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE PROJECT TO ENSURE THAT ALL WORK SHALL MEET OR EXCEED THE ABOVE REQUIREMENTS.
8. THE CONTRACTOR IS DIRECTED TO OBTAIN COPIES OF ALL RELATED PLANS, SPECIFICATIONS, SHOP DRAWINGS AND ADDENDUM TO COORDINATE THE RELATED WORK AND SCHEDULING.
9. PROVIDE ACCESS PANELS IN WALLS AND CEILINGS WHERE REQUIRED FOR OPERATION, SERVICING, INSPECTION AND MAINTENANCE OF ALL EQUIPMENT.
10. VERIFY EXISTING CONDITIONS IN FIELD AND COORDINATE WITH ALL TRADES PRIOR TO INSTALLING OR FABRICATING EQUIPMENT.
11. DRAWINGS ARE DIAGRAMMATIC IN NATURE. COORDINATE EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT SO ALL SERVICEABLE COMPONENTS CAN BE EASILY ACCESSED.
12. PRIOR TO BID, COORDINATE ALL ELECTRICAL WORK WITH MECHANICAL WORK AND OTHER TRADES.
13. CONTRACTOR SHALL NOT CONCEAL ANY WORK UNTIL INSPECTED BY ELECTRICAL INSPECTOR AND/OR ARCHITECT/ENGINEER.
14. PRIME CONTRACTOR IS RESPONSIBLE TO HAVE LICENSED AND QUALIFIED SUBCONTRACTORS PERFORMING ALL WORK.
15. ALL CHANGES MADE IN THE FIELD SHALL BE RECORDED BY THE CONTRACTOR(S) ON AS-BUILT DRAWINGS, SHOP DRAWINGS, AND IN MAINTENANCE MANUALS.
16. THE SIZE, LOCATION AND ELECTRICAL REQUIREMENTS AND SERVICE CLEARANCES OF EQUIPMENT INSTALLED UNDER DIVISION 26, ELECTRICAL, SHALL BE COORDINATED WITH ALL OTHER TRADES.
17. WHERE CROWDED LOCATIONS EXIST OR WHERE THERE IS A POSSIBILITY OF CONFLICT BETWEEN TRADES, CONTRACTOR SHALL MAKE COMPOSITE DRAWINGS SHOWING THE EXACT LOCATION OF PANELBOARDS, SWITCHBOARDS, TRANSFORMERS, CONDUIT AND EQUIPMENT AND MECHANICAL PIPING, DUCTWORK, AND OTHER ARCHITECTURAL APERTURES.
18. NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO PURCHASING EQUIPMENT AND PRIOR TO CUTTING OPENINGS.
19. ALL BARE METAL SURFACES SHALL BE PRIMED AND PAINTED TO PREVENT ANY RUST, INCLUDING, BUT NOT LIMITED TO, ANGLE FRAMING, UNIT SUPPORTS, MOUNTING HARDWARE, ETC.
20. ALL WORK SHALL BE CONSTRUCTED TO MEET ANY PHASING REQUIREMENTS OF THE PROJECT AS MAY BE OUTLINED IN THE DRAWINGS AND/OR SPECIFICATIONS.
21. RACEWAYS AND ELECTRICAL EQUIPMENT HAVE BEEN LOCATED AND ARRANGED TO MINIMIZE THE INTERFERENCE OF EQUIPMENT WITH THE STRUCTURE.
22. ALL PANELBOARDS SHALL BE PROVIDED WITH A PRINTED DIRECTORY SHOWING CIRCUIT NUMBERS AND A COMPLETE DESCRIPTION OF EACH CIRCUIT.
23. MINIMUM TRADE SIZE CONDUIT PERMITTED SHALL BE 3/4 INCH UNLESS NOTED OTHERWISE.
24. ALL SECONDARY FEEDERS AND BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER WITH 600 VOLT INSULATION TYPE THHN, THW OR THWN.
25. ALL ELECTRICAL WIRING DEVICES INDICATED TO BE INSTALLED IN MASONRY WALLS OR FLOORS SHALL BE FLUSH MOUNTED, UNLESS OTHERWISE NOTED.
26. ALL CONDUIT RUNS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE OR PRIOR APPROVED BY OWNER FOR SURFACE MOUNTING.
27. ALL CONDUITS SHALL HAVE A SEPARATE GREEN GROUND CONDUCTOR INSTALLED FOR GROUNDING.
28. ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED FOR THE MAXIMUM VOLTAGE DROP ALLOWED IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE, ENERGY CONSERVATION, CHAPTER 4, SECTION C405.6.3.
29. FOR MULTI-WIRE BRANCH CIRCUITS, ADD SEPARATE NEUTRALS AND PROVIDE & INSTALL MULTI-POLE CIRCUIT BREAKERS PER 2014 NEC, ARTICLE 210.4.
30. THE CONTRACTOR SHALL PROVIDE AND INSTALL MATTE BLACK OR EQUAL NON-REFLECTIVE FINISHED METAL ESCUTCHEONS TO FINISH THE HOLES OR SLEEVES OFF, INCLUDING THE OUTSIDE AND INSIDE OF THE EXTERIOR WALLS AND ANY OTHER PLACE WHERE THE PENETRATION IS VISIBLE.
31. THE CONTRACTOR SHALL MAKE AND PERFORM ALL EXOTHERMIC WELDING PROCEDURES (CADWELD) IN ACCORDANCE WITH THE APPLICABLE ANSI STANDARDS INCLUDING SAFETY IN WELDING AND CUTTING, AND IN STRICT ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTALLATION AND HANDLING INSTRUCTIONS.
32. ALL ELECTRICAL EQUIPMENT FEEDERS, BRANCH CIRCUIT CONDUCTORS, AND DEVICE AND EQUIPMENT TERMINATIONS SHALL BE RATED FOR A MINIMUM OF 75°C UNLESS OTHERWISE NOTED.

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GENERAL SYMBOLS

Table of general symbols including SECTION/DETAIL DESIGNATIONS, EQUIPMENT DESIGNATION, SHEET NOTE, DEMOLITION HATCHING, ITEMS SHOWN DASHED AND RELATIVELY LIGHT, REVISION CLOUD AND REFERENCE NUMBER, and CENTERLINE.

ELECTRICAL SYMBOL NOTES

Table of electrical symbol notes including LIGHT FIXTURE LABELING, EXIT LIGHTS, DEVICES, TRANSFORMERS, PANELBOARDS, MOTOR CONNECTIONS, and CONDUIT SHOWN WITHOUT SLASH MARKS.

NOTE: SOME SYMBOLS SHOWN IN ELECTRICAL LEGEND MAY NOT APPLY TO THIS PROJECT.

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OCCC - WEST BUILDING, HALL "A" NATURAL GAS RETROFIT

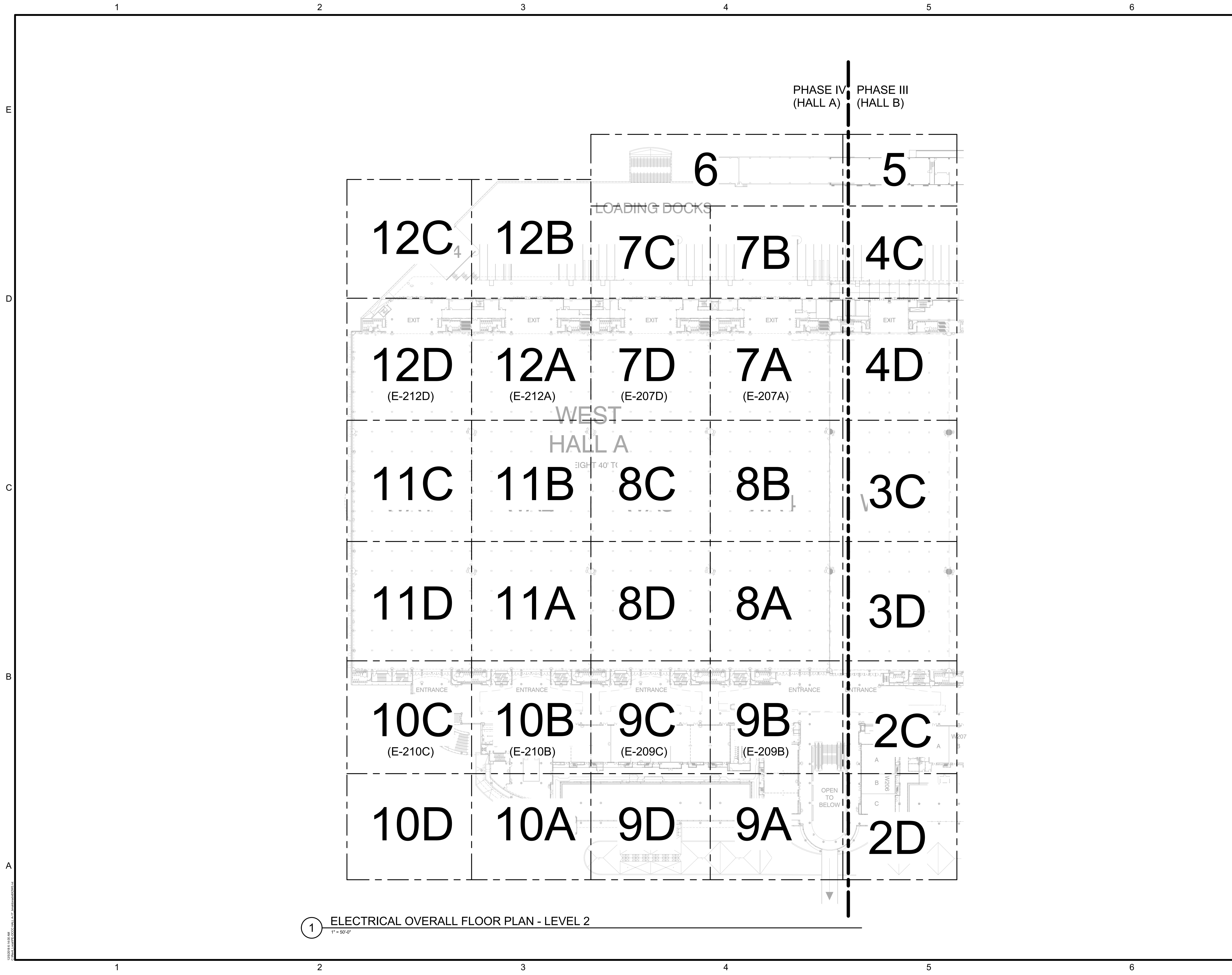
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SHEET TITLE
GENERAL ELECTRICAL NOTES, LEGEND AND ABBREVIATIONS

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1 ELECTRICAL OVERALL FLOOR PLAN - LEVEL 2
1" = 50'-0"



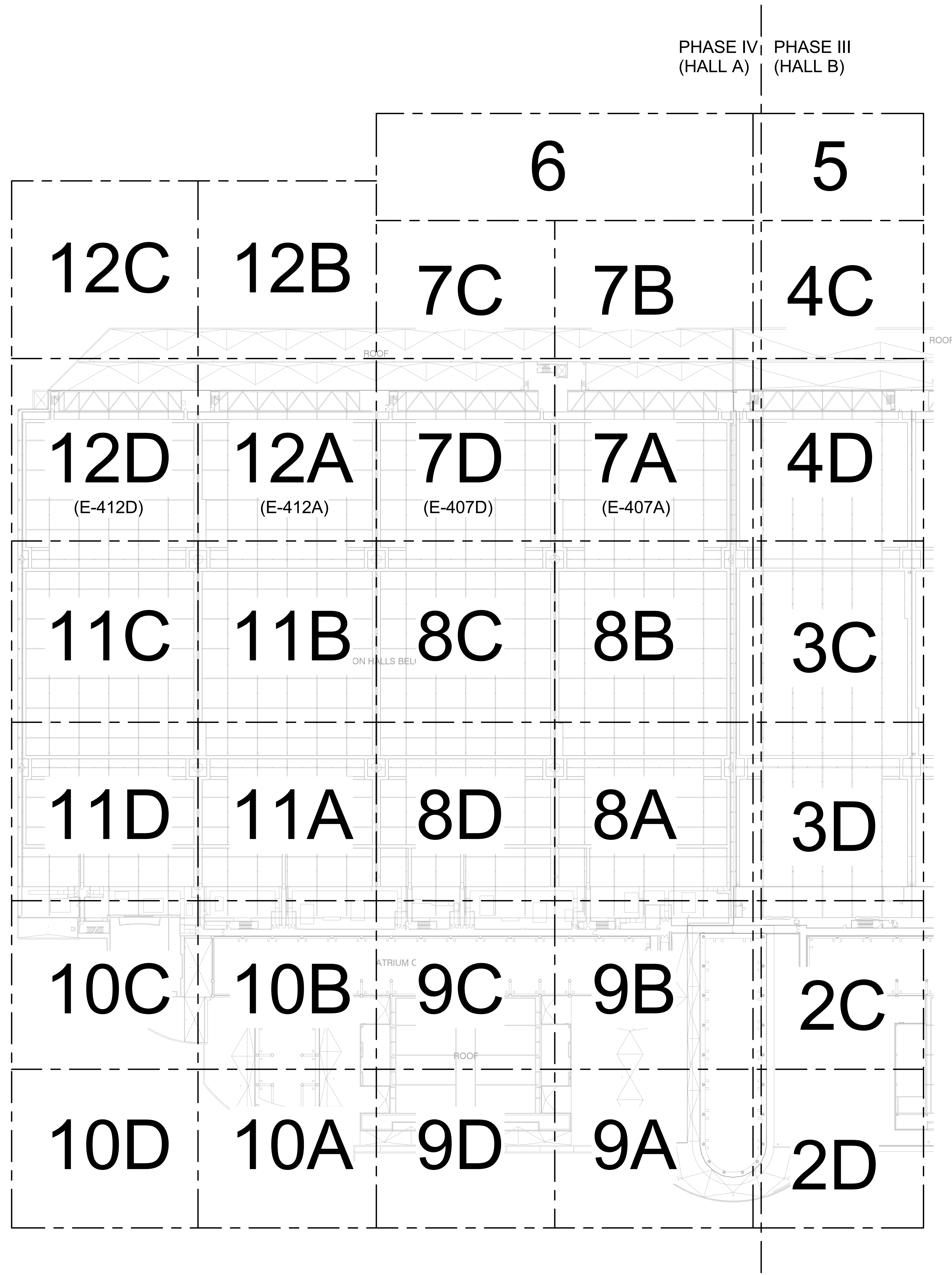
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ELECTRICAL
OVERALL FLOOR
PLAN - LEVEL 2



PHASE IV (HALL A) | PHASE III (HALL B)

1 ELECTRICAL OVERALL FLOOR PLAN - LEVEL 4
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ELECTRICAL
OVERALL FLOOR
PLAN - LEVEL 4

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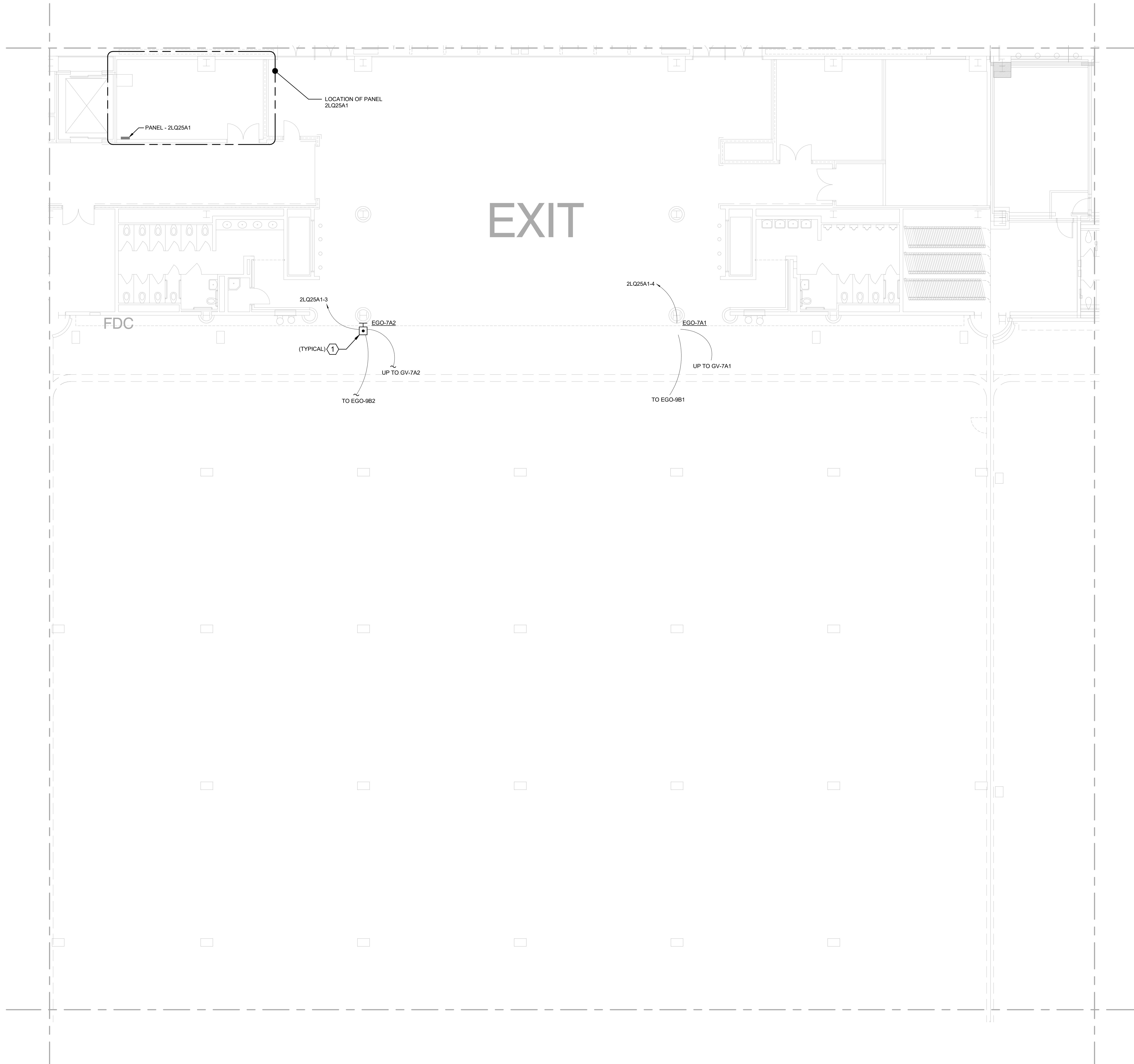
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GENERAL SHEET NOTES

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SHEET KEYNOTES

- CONTRACTOR TO PROVIDE AND INSTALL PILLA FS-120MPGM EMERGENCY FUEL SHUT OFF OR EQUAL, CONNECT SHUT OFF TO NATURAL GAS SOLENOID FOR THIS EXHIBITION HALL. CONTRACTOR SHALL PROVIDE AND INSTALL ALL WORK AND MATERIALS AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. REFER TO SHEET E-407A FOR SOLENOID LOCATION(S).



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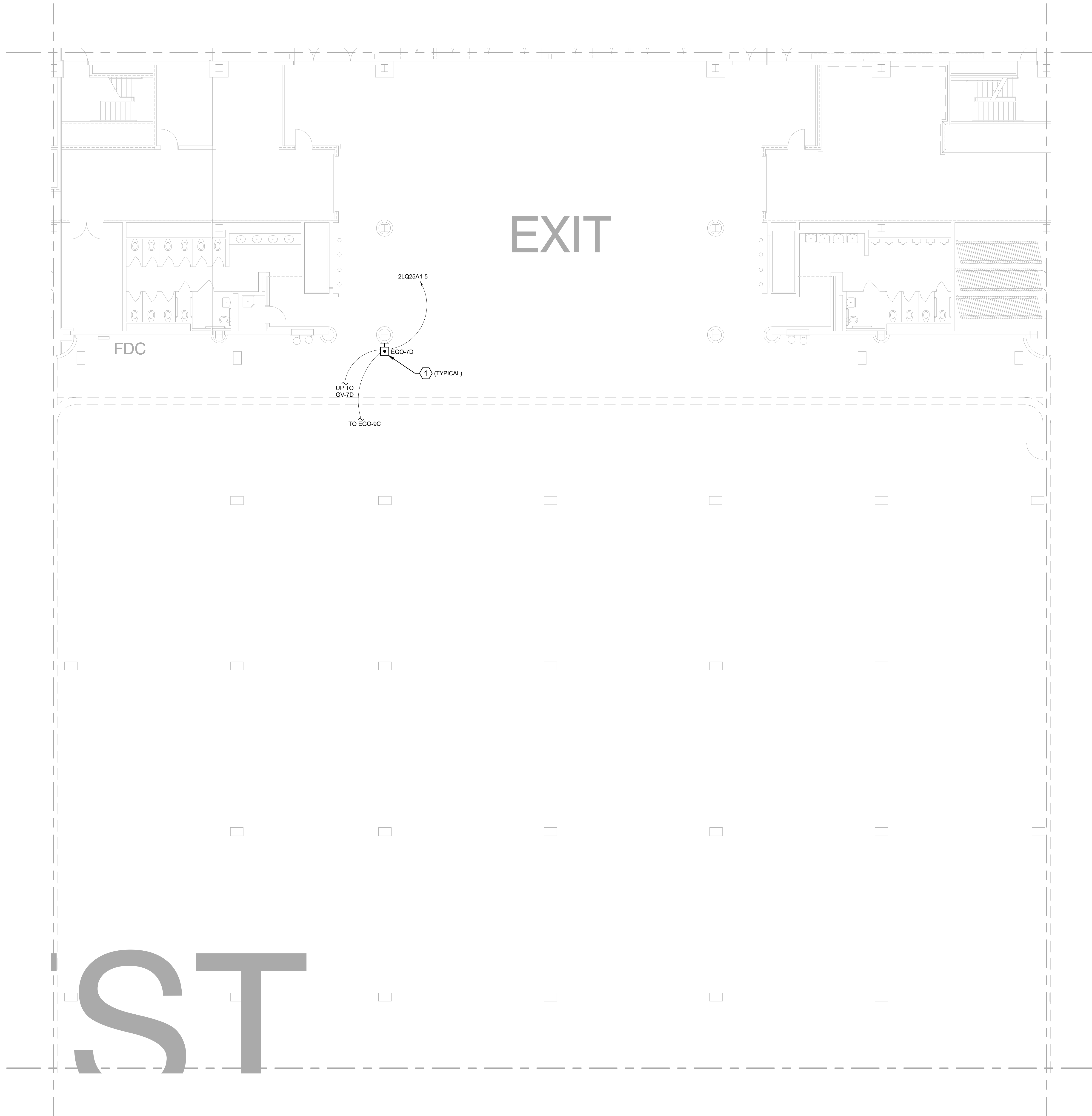
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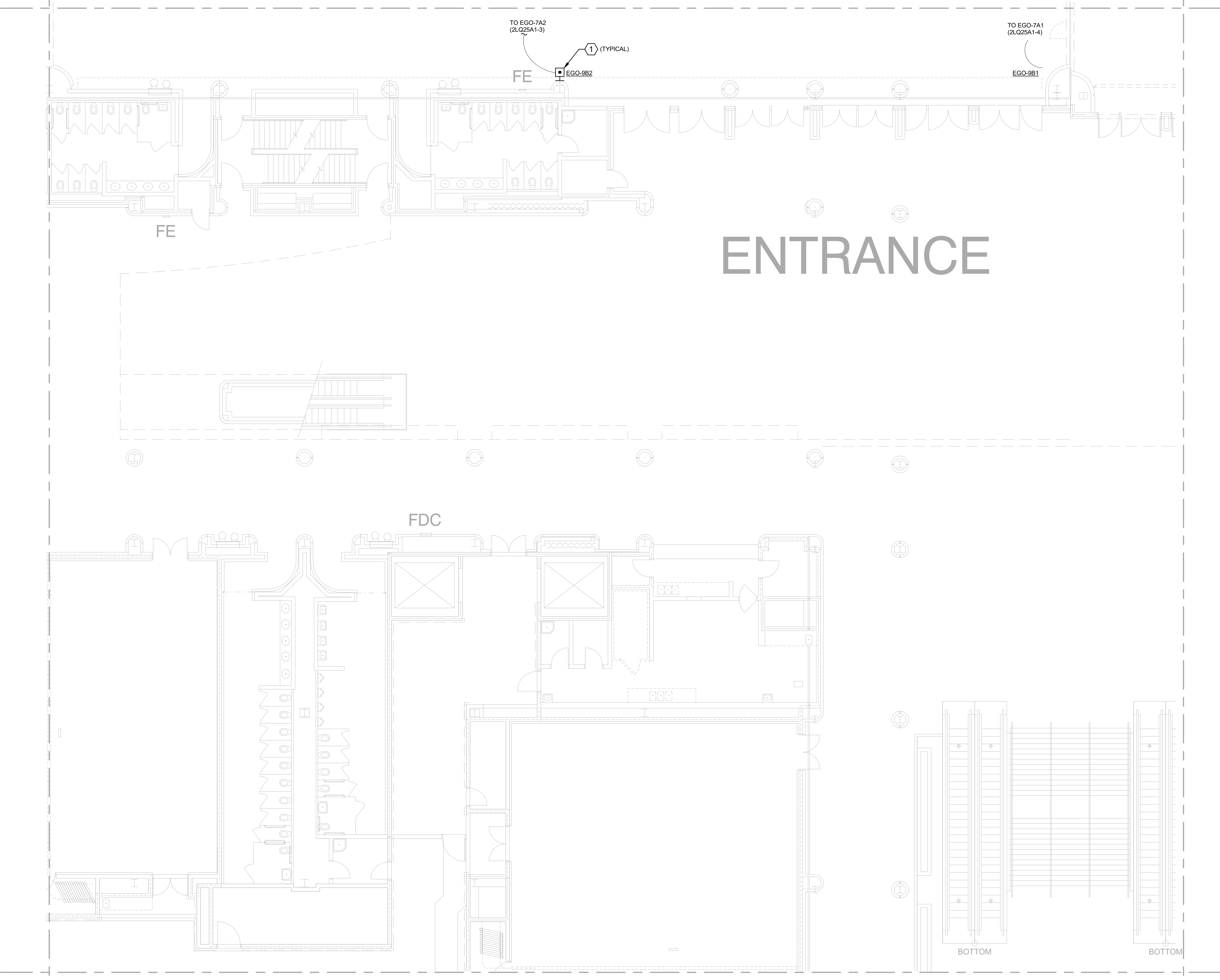
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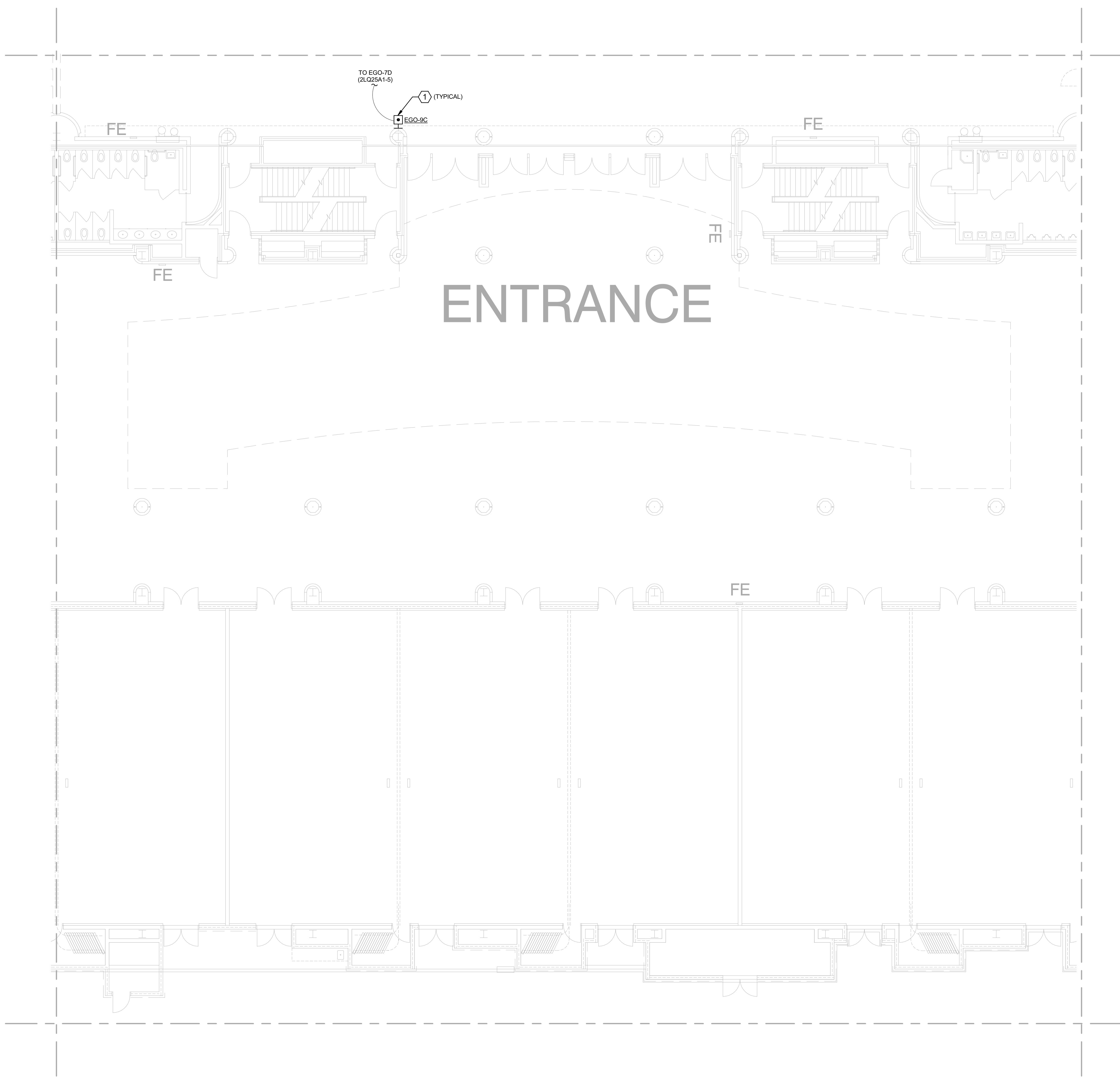
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① PARTIAL LEVEL 2 - AREA 9B - POWER
SCALE: 1/8" = 1'-0"

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1 PARTIAL LEVEL 2 - AREA 9C - POWER
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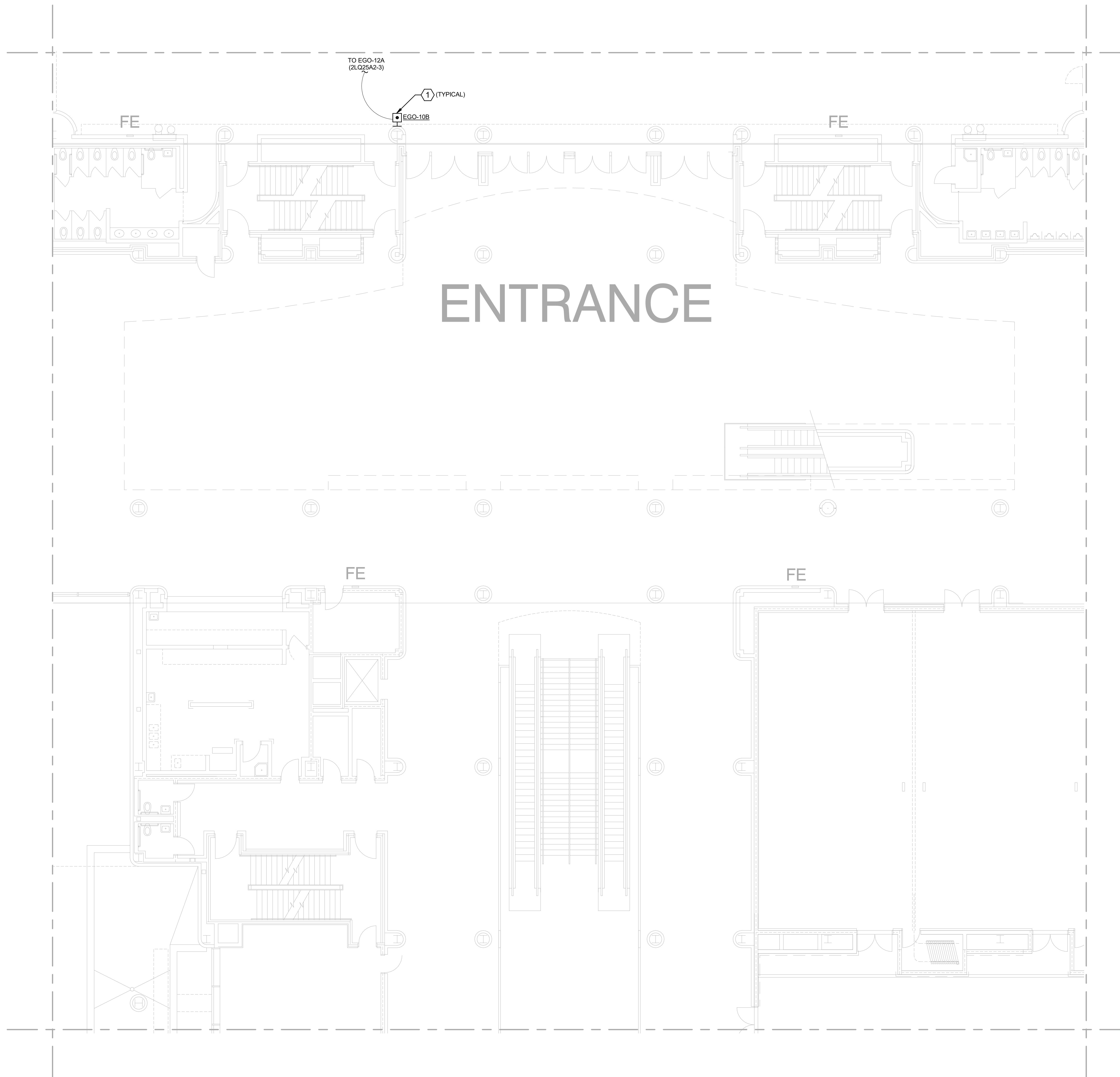
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GENERAL SHEET NOTES

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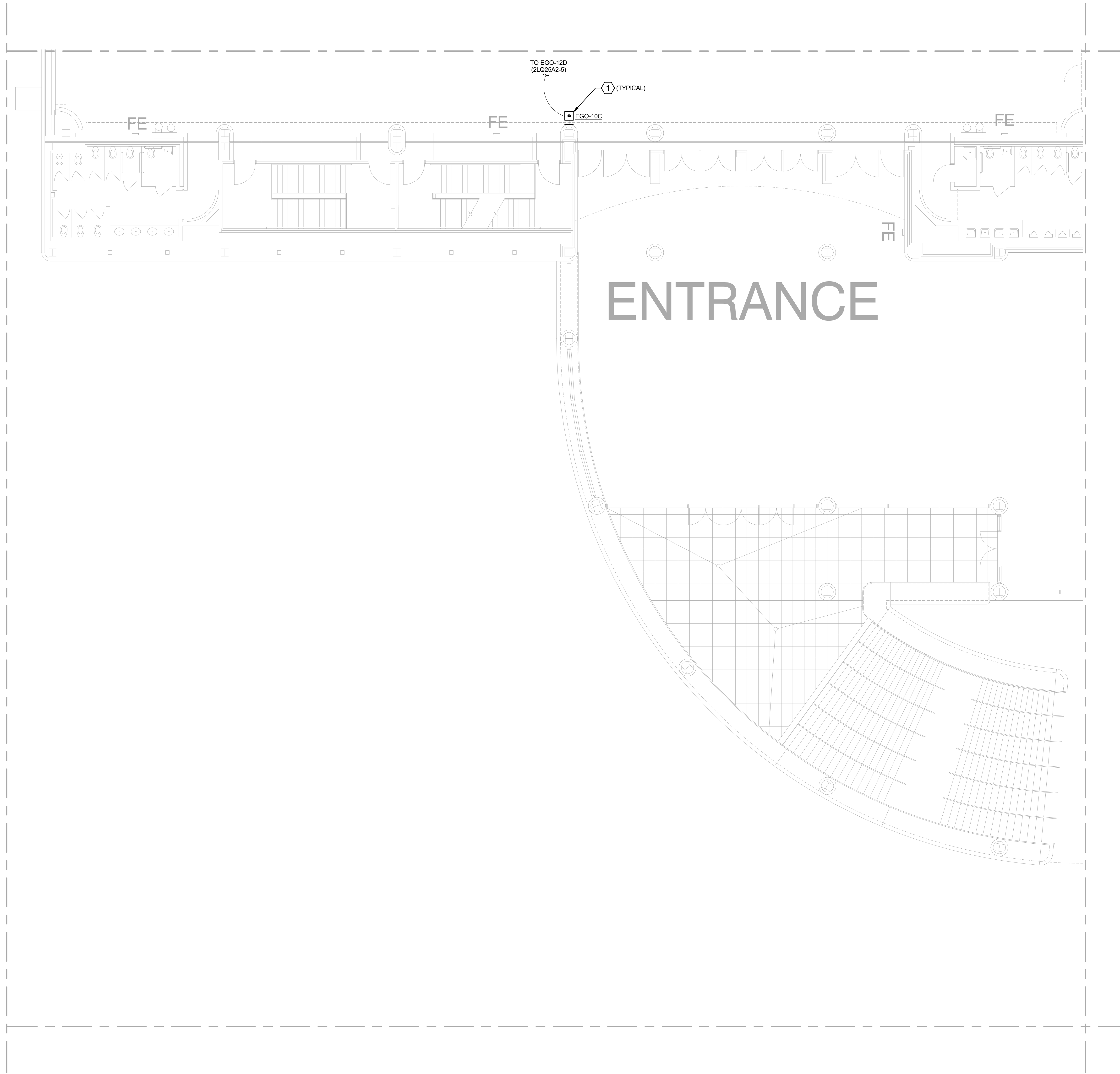
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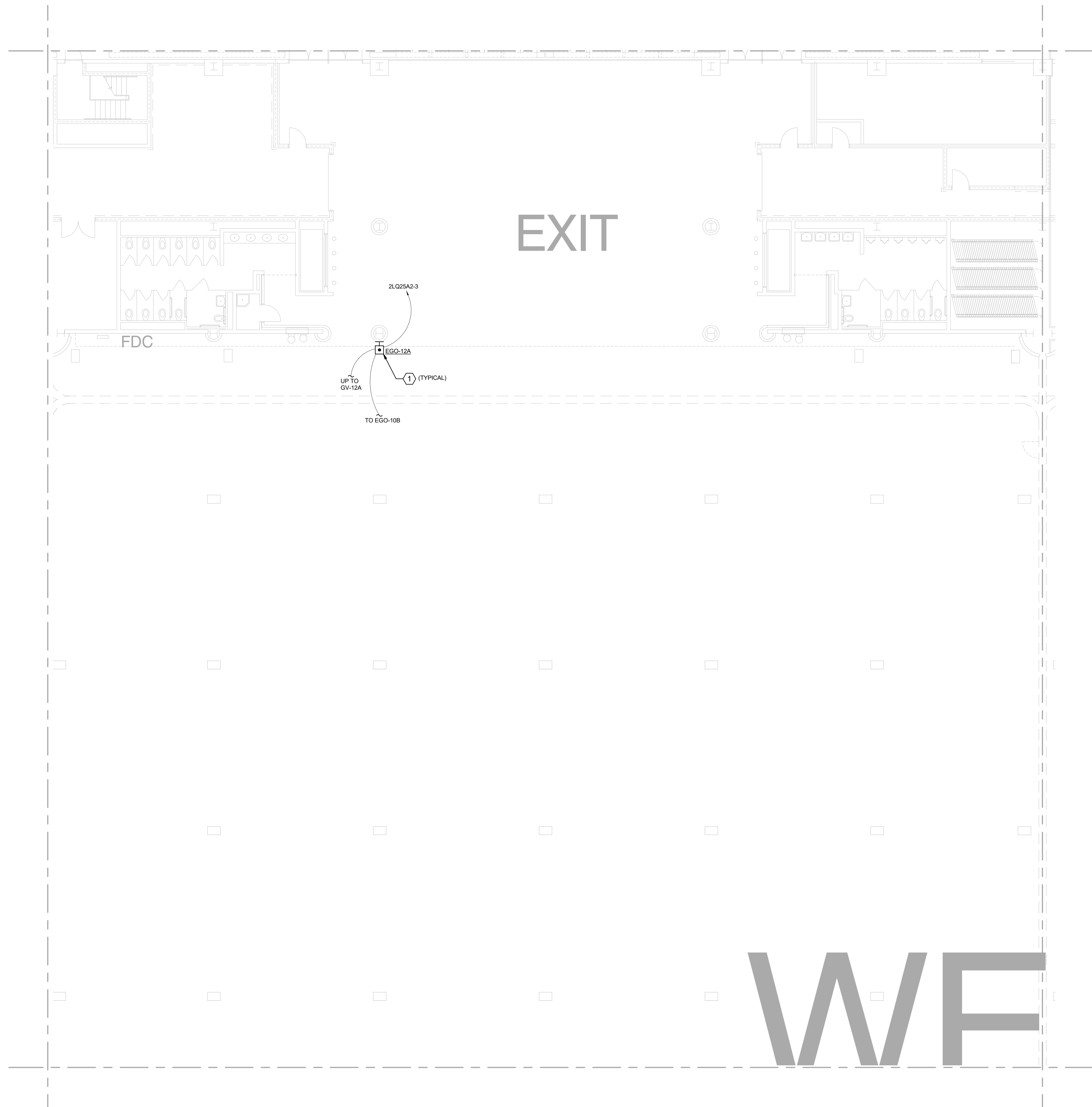
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1. CONTRACTOR SHALL PROVIDE AND INSTALL NEW ELECTRICAL EQUIPMENT AND DEVICES AS SHOWN ON THE PLANS. CONTRACTOR SHALL PROVIDE NEW BRANCH ELECTRICAL CIRCUITS WHERE NOTED AND PROVIDE THE NEW EQUIPMENT CIRCUITING SCHEME(S) AS SHOWN OR OTHERWISE REQUIRED. CONTRACTOR SHALL CONNECT ALL ELECTRICAL EQUIPMENT AND DEVICES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.

SHEET KEYNOTES

① CONTRACTOR TO PROVIDE AND INSTALL PILLA FS-120MPMG EMERGENCY FUEL SHUT OFF OR EQUAL, CONNECT SHUT OFF TO NATURAL GAS SOLENOID FOR THIS EXHIBITION HALL. CONTRACTOR SHALL PROVIDE AND INSTALL ALL WORK AND MATERIALS AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. REFER TO SHEET E-412A FOR SOLENOID LOCATION(S).

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 RETROFIT

KEYPLAN

		6	5	
12C	12B	7C	7B	4C
12D	12A	7D	7A	4D
11C	11B	8C	8B	3C
11D	11A	8D	8A	3D
10C	10B	9C	9B	2C
10D	10A	9D	9A	2D

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SHEET TITLE
 PARTIAL LEVEL 2 -
 AREA 12A - POWER

① PARTIAL LEVEL 2 - AREA 12A - POWER
 SCALE: 1/8" = 1'-0"

100% CD'S
 E-212A

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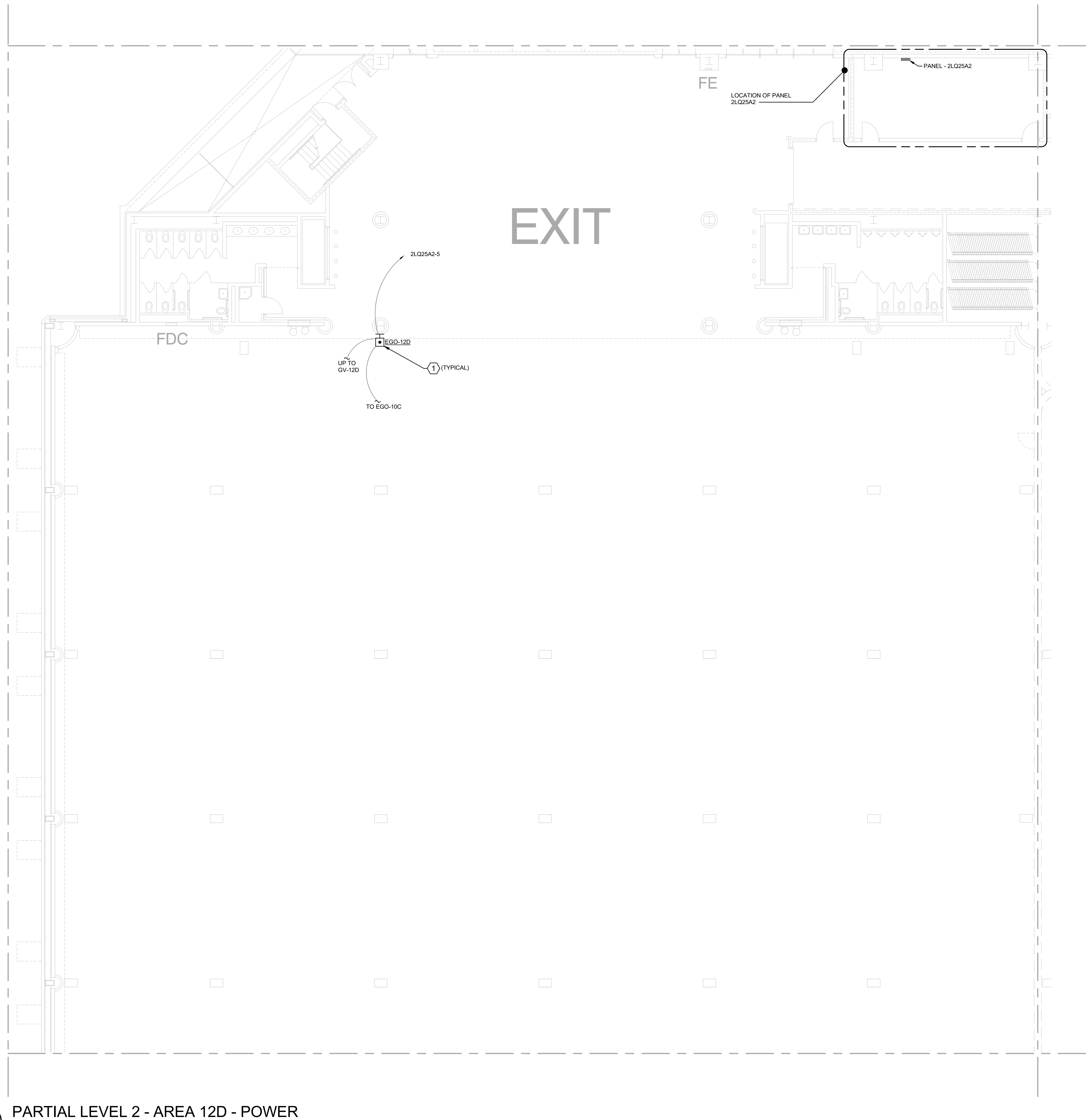
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GENERAL SHEET NOTES

- CONTRACTOR SHALL PROVIDE AND INSTALL NEW ELECTRICAL EQUIPMENT AND DEVICES AS SHOWN ON THE PLANS. CONTRACTOR SHALL PROVIDE NEW BRANCH ELECTRICAL CIRCUITS WHERE NOTED AND PROVIDE THE NEW EQUIPMENT CIRCUITING SCHEME(S) AS SHOWN OR OTHERWISE REQUIRED. CONTRACTOR SHALL CONNECT ALL ELECTRICAL EQUIPMENT AND DEVICES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.

SHEET KEYNOTES

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 SHEET TITLE
 PARTIAL LEVEL 2 -
 AREA 12D - POWER

KEYPLAN

		6	5	
12C	12B	7C	7B	4C
12D	12A	7D	7A	4D
11C	11B	8C	8B	3C
11D	11A	8D	8A	3D
10C	10B	9C	9B	2C
10D	10A	9D	9A	2D

1 PARTIAL LEVEL 2 - AREA 12D - POWER
 SCALE: 1/8" = 1'-0"

100% CD'S

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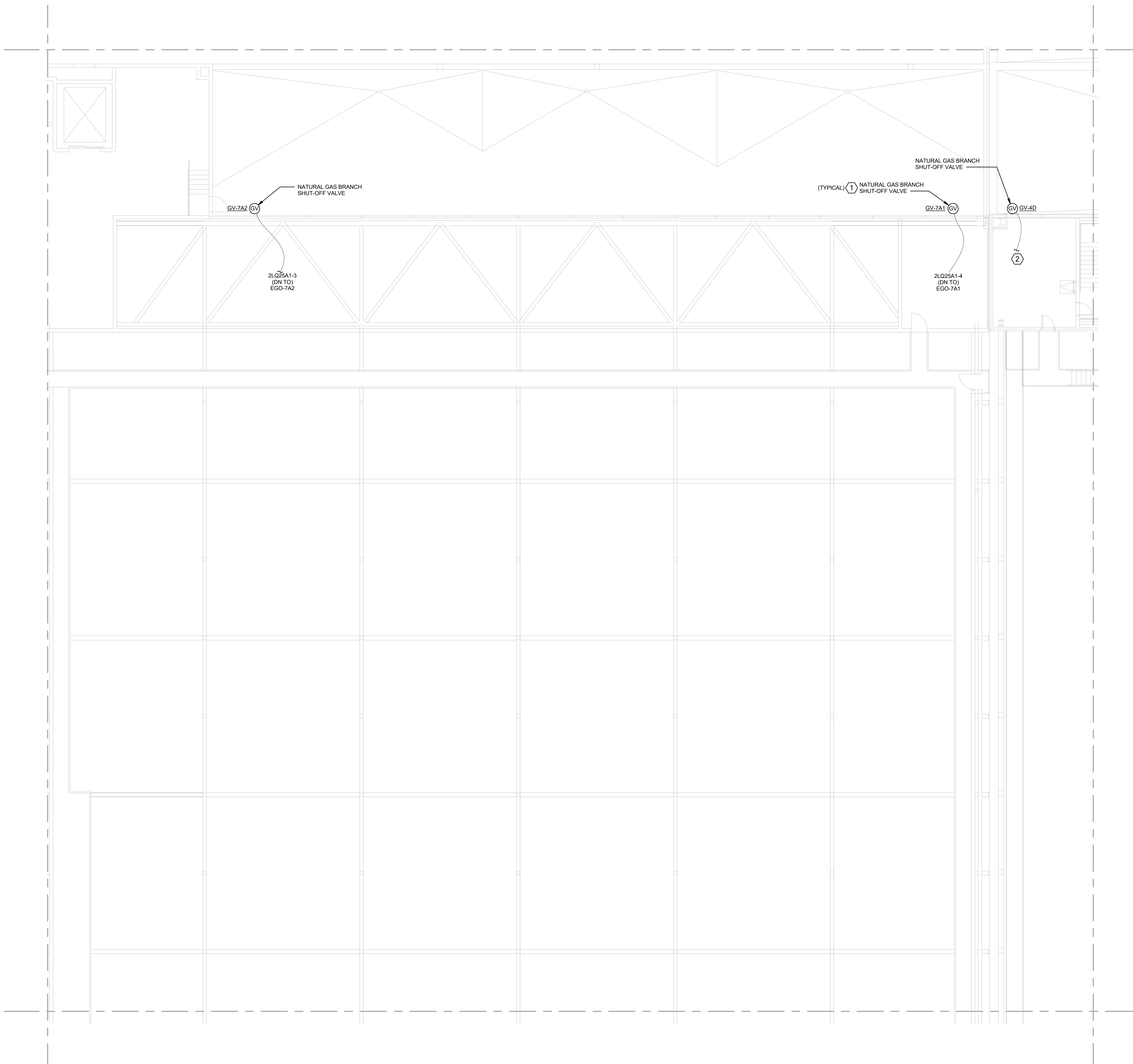
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GENERAL SHEET NOTES

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SHEET KEYNOTES

- CONTRACTOR SHALL CONNECT 120V CIRCUIT TO NATURAL GAS SHUT-OFF VALVE. CONNECT TO NEW SHUT-OFF BUTTONS SHOWN ON LEVEL 2 FOR THIS EXHIBITION HALL. CONTRACTOR SHALL PROVIDE AND INSTALL ALL WORK AND MATERIALS AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.
- TIE IN TO EXISTING EMERGENCY FUEL SHUT-OFF LOCATED IN EXHIBITION HALL B AREA 4D. CONTRACTOR SHALL PROVIDE AND INSTALL ALL WORK AND MATERIALS AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. REFER TO OVERALL PLAN ON SHEET E-102.



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KEYPLAN

			6	5	
12C	12B	7C	7B	4C	
12D	12A	7D	7A	4D	
11C	11B	8C	8B	3C	
11D	11A	8D	8A	3D	
10C	10B	9C	9B	2C	
10D	10A	9D	9A	2D	

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SHEET TITLE
PARTIAL LEVEL 4 -
AREA 7A - POWER

100% CD'S
E-407A

1 PARTIAL LEVEL 4 - AREA 7A - POWER

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

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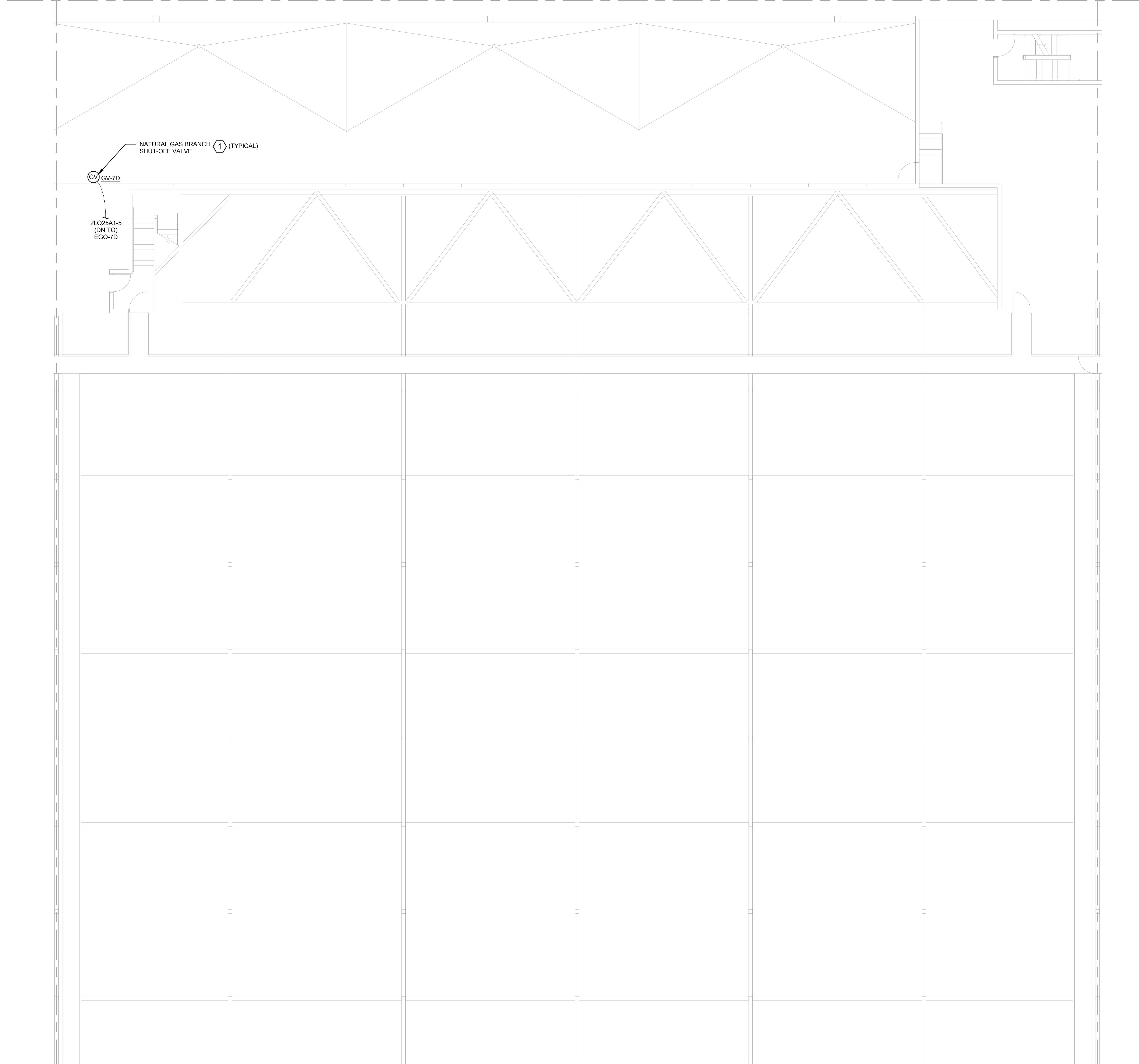
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ROOF



1 PARTIAL LEVEL 4 - AREA 7D - POWER
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

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KEYPLAN

		6	5	
12C	12B	7C	7B	4C
12D	12A	7D	7A	4D
11C	11B	8C	8B	3C
11D	11A	8D	8A	3D
10C	10B	9C	9B	2C
10D	10A	9D	9A	2D

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SHEET TITLE
PARTIAL LEVEL 4 -
AREA 7D - POWER

100% CD'S
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GENERAL SHEET NOTES

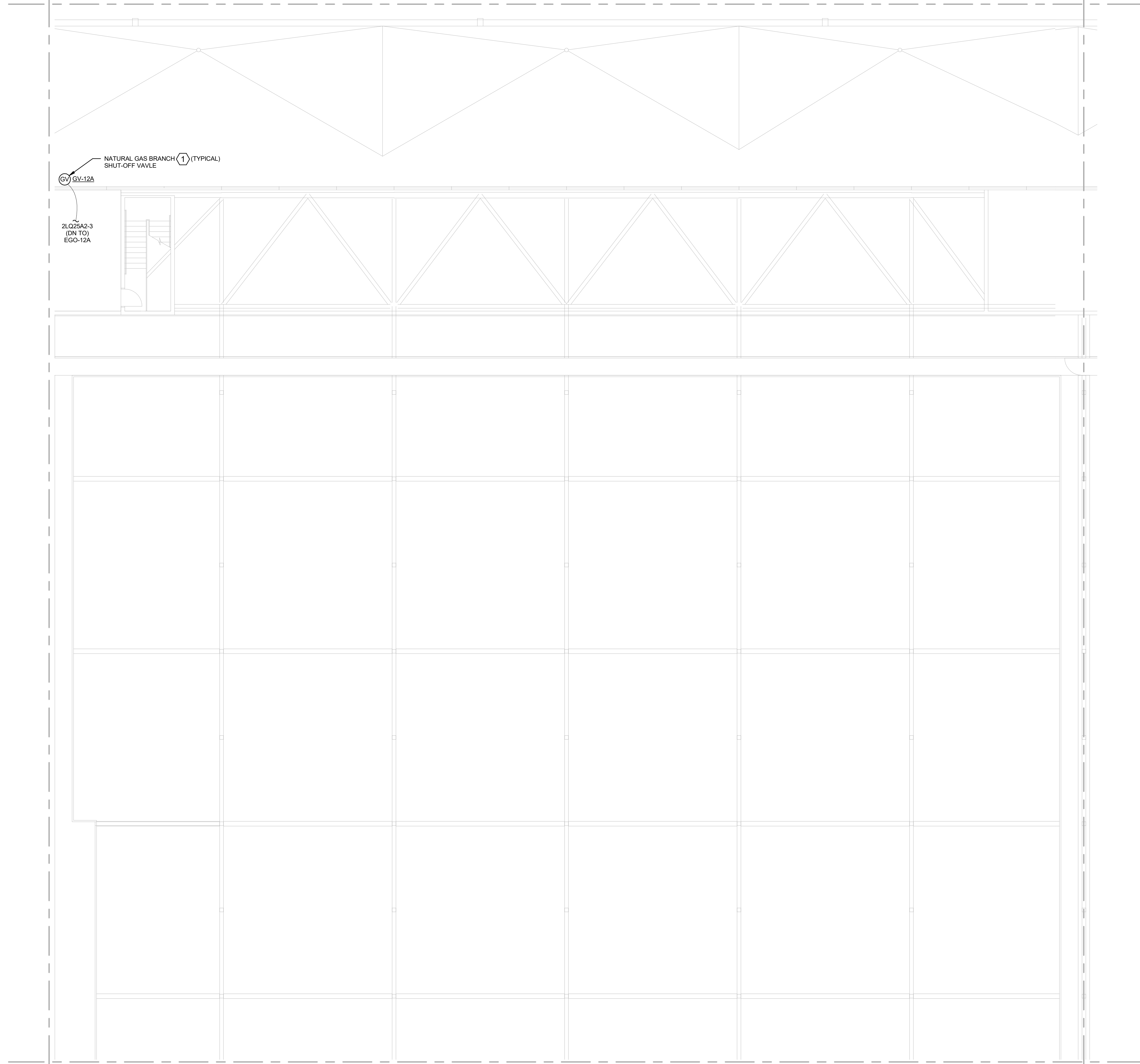
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ROOF

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NATURAL GAS
RETROFIT

KEYPLAN

		6	5	
12C	12B	7C	7B	4C
12D	12A	7D	7A	4D
11C	11B	8C	8B	3C
11D	11A	8D	8A	3D
10C	10B	9C	9B	2C
10D	10A	9D	9A	2D

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PARTIAL LEVEL 4 -
AREA 12A - POWER

100% CD'S
E-412A

1 PARTIAL LEVEL 4 - AREA 12A - POWER
SCALE: 1/8" = 1'-0"

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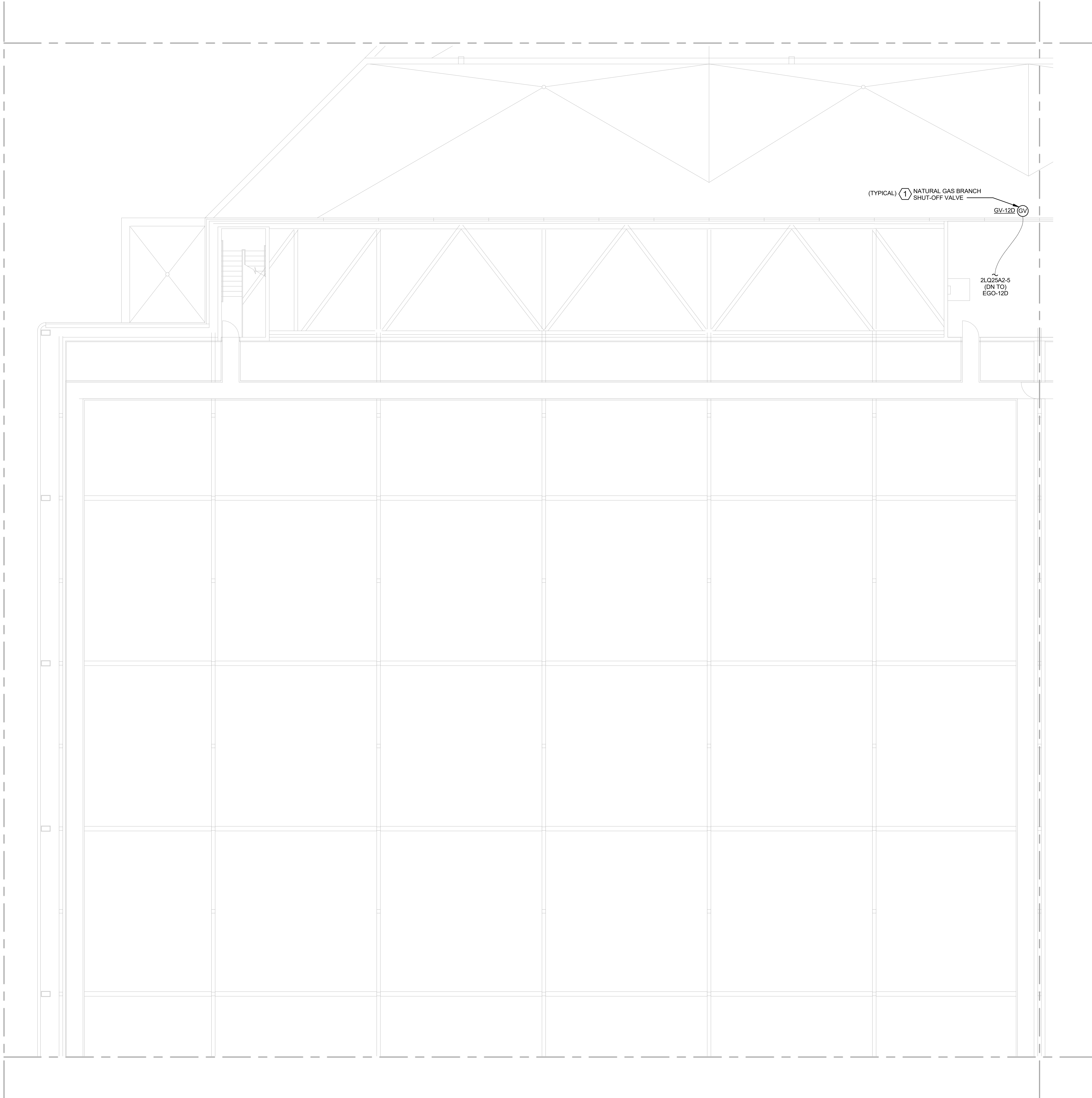
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KEYPLAN

			6	5	
12C	12B	7C	7B	4C	
12D	12A	7D	7A	4D	
11C	11B	8C	8B	3C	
11D	11A	8D	8A	3D	
10C	10B	9C	9B	2C	
10D	10A	9D	9A	2D	

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 SHEET TITLE
 PARTIAL LEVEL 4 -
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1 PARTIAL LEVEL 4 - AREA 12D - POWER
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100% CD'S
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PANEL: 2LQ25A2

AIC RATING: 10K AIC
TYPE: GE, A SERIES
MOUNTING: SURFACE

MAINS: 30A MCB
BUS RATING: 125 A
VOLTAGE: 208Y/120V, 3Ø, 4W

CKT	Circuit Description	CB	P	A	B	C	P	CB	Circuit Description	CKT
1	SB 2.057 SV COL 50 CAMERA	20 A	1	600	600			1	20 A SB 2.057 SV COL 50 CAMERA	2
3	NATURAL GAS SHUT-OFF PUSH BUTTON	20 A	1		1468	0		1	20 A SPARE	4
5	NATURAL GAS SHUT-OFF PUSH BUTTON	20 A	1			1468	0	1	20 A SPARE	6
7	SPARE	20 A	1	0	0			--	SPARE	8
9	SPARE	20 A	1		0	0		--	SPARE	10
11	SPARE	20 A	1			0	0	--	SPARE	12
				PHASE SUBTOTALS:	1200 VA	1468 VA	1468 VA			

NOTES:
* = INDICATES ASSUMED LOAD(S).

TOTAL CONNECTED LOAD = 4196 VA
TOTAL CONNECTED AMPS = 11 A

PANEL: 2LQ25A1

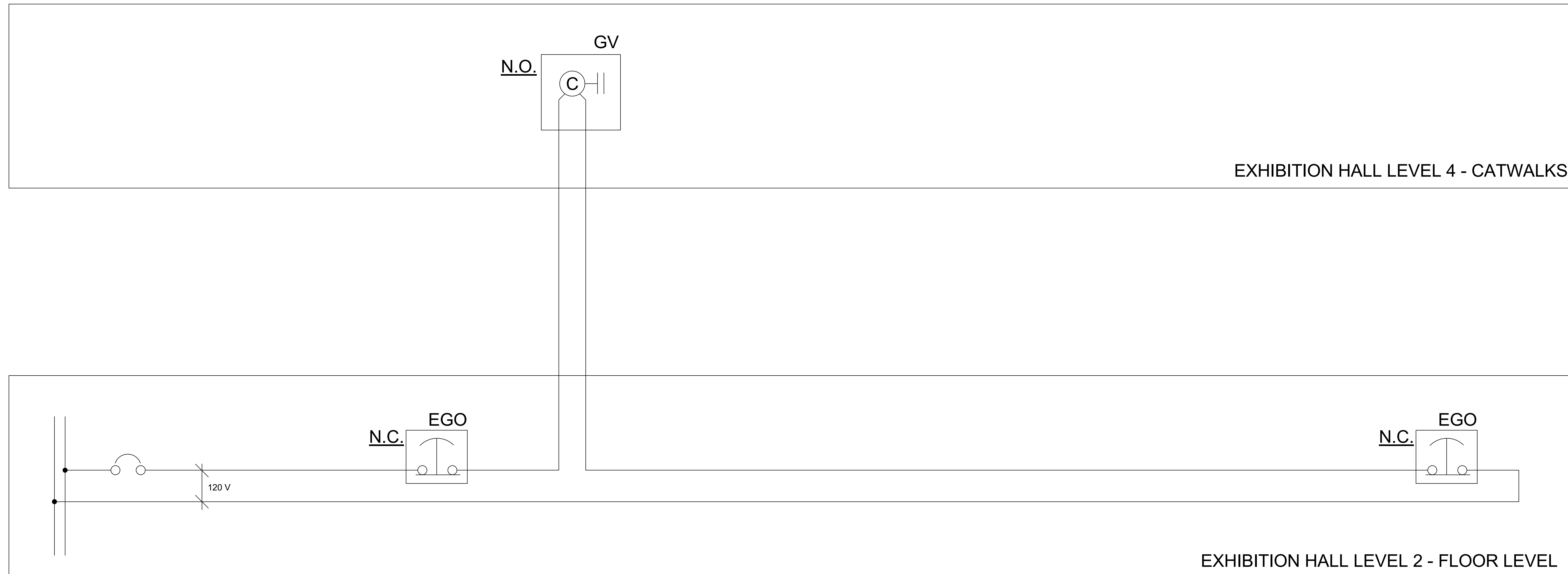
AIC RATING: 10K AIC
TYPE: GE, A SERIES
MOUNTING: SURFACE

MAINS: 30A MCB
BUS RATING: 125 A
VOLTAGE: 208Y/120V, 3Ø, 4W

CKT	Circuit Description	CB	P	A	B	C	P	CB	Circuit Description	CKT
1	SB 2.057 SV COL 37 CAMERA	20 A	1	600	600			1	20 A SB 2.057 SV COL 44 CAMERA	2
3	NATURAL GAS SHUT-OFF PUSH BUTTON	20 A	1		1468	1468		1	20 A NATURAL GAS SHUT-OFF PUSH BUTTON	4
5	NATURAL GAS SHUT-OFF PUSH BUTTON	20 A	1			1468	0	1	20 A SPARE	6
7	SPARE	20 A	1	0	0			--	SPARE	8
9	SPARE	20 A	1		0	0		--	SPARE	10
11	SPARE	20 A	1			0	0	--	SPARE	12
				PHASE SUBTOTALS:	1200 VA	2936 VA	1468 VA			

NOTES:
* = INDICATES ASSUMED LOAD(S).

TOTAL CONNECTED LOAD = 4164 VA
TOTAL CONNECTED AMPS = 12 A



1 EMERGENCY GAS BRANCH SHUT OFF WIRING SCHEMATIC

SCALE: NTS



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AND DETAILS