

A

[illegible]

PLATE
REFERENCE
NUMBER
G-001

$$\triangle A$$

- a. LOCATIONS WHERE VOLATILE FLAMMABLE LIQUIDS OR FLAMMABLE GASES ARE HANDLED, PROCESSED OR USED, BUT WILL NORMALLY BE CONFINED WITHIN CLOSED CONTAINERS OR CLOSED SYSTEMS FROM WHICH THEY CAN ESCAPE ONLY IN CASE OF ACCIDENTAL RUPTURE OR BREAKDOWN OF SUCH CONTAINERS OR SYSTEMS OR IN CASE OF ABNORMAL OPERATION OF EQUIPMENT.
- b. STORAGE VESSELS (INCLUDING CARTS AND DRUMS); USE NFPA 497, RECOMMENDED PRACTICE FOR CLASSIFICATION OF FLAMMABLE LIQUIDS, GASES, OR VAPORS AND OF HAZARDOUS (CLASSIFIED) LOCATIONS FOR ELECTRICAL INSTALLATIONS IN CHEMICAL PROCESS AREAS (AFSPCMAN TAILORED 91-710, 5.1.5.1.4.2.1).
- c. TRANSFER LINES: FOR COMMODITIES USE NFPA 497 (AFSPCMAN TAILORED 91-710, 5.1.5.1.4.2.2).
- d. AREAS WITH FUELS PRESENT IN EXPECTED OXYGEN RICH ATMOSPHERES (INCLUDING LAUNCH VEHICLE WITH TRANSPORT ERECTOR ON PAD): FOR HYDROGEN, 100 FOOT RADIUS HORIZONTALLY FROM AND 100 FEET VERTICALLY (25 FEET FOR OTHER THAN HYDROGEN) ABOVE THE HIGHEST LEAK OR VENT SOURCE AND BELOW THE SOURCE TO GRADE. (AFSPCMAN TAILORED 91-710, 5.1.5.1.4.2.3).
- e. ENCLOSED LOCATIONS SUCH AS ROOMS, WORK BAYS, AND LAUNCH COMPLEX CLEAN ROOMS THAT ARE USED TO STORE AND HANDLE FLAMMABLE AND COMBUSTIBLE PROPELLANTS WHEN THE CONCENTRATION OF VAPORS INSIDE THE ROOM RESULTING FROM A RELEASE OF ALL FLUIDS STORED AND HANDLED EQUALS OR EXCEEDS THE LOWER EXPLOSION LIMIT (LEL).
- f. LOCATIONS ADJACENT TO A CLASS I, DIVISION 1 LOCATION INTO WHICH IGNITABLE CONCENTRATIONS OF GASES OR VAPORS MIGHT OCCASIONALLY BE COMMUNICATED, UNLESS COMMUNICATION IS PREVENTED BY ADEQUATE POSITIVE PRESSURE VENTILATION FROM A SOURCE OF CLEAN AIR AND EFFECTIVE SAFEGUARDS AGAINST VENTILATION FAILURE ARE PROVIDED.

G. ALL ELECTRICALLY ENERGIZED EQUIPMENT USED IN HAZARDOUS AREAS, WHETHER FIXED OR PORTABLE/TEMPORARY, SHALL BE COMPLIANT WITH THE REQUIREMENTS LISTED IN AFSPCMAN TAILORED 91-710, NFPA 70 (NEC), AND OSHA 1910 FOR THE MOST STRINGENT HAZARD CLASSIFICATION AREA IN WHICH IT SHALL BE USED.

C

B

A

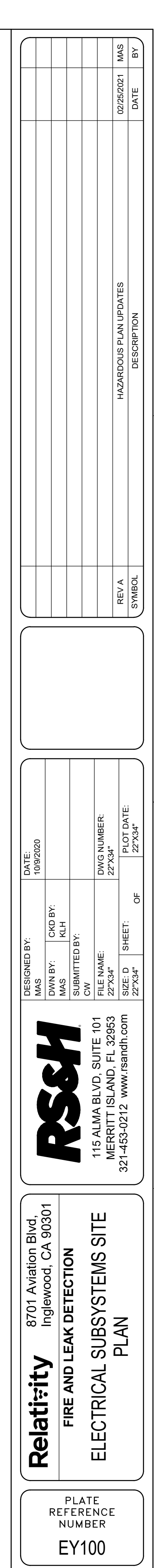
DRAWING INDEX		
SHEET NUMBER	PLATE NUMBER	SHEET TITLE
1	G-001	COVER SHEET
2	EY-001	ELECTRICAL SUBSYSTEMS GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS
3	EY-100	ELECTRICAL SUBSYSTEMS SITE PLAN
4	EY-401	ENLARGED PLAN - LOX STORAGE AREA
5	EY-402	ENLARGED PLAN - PAD
6	EY-403	ENLARGED PLAN - LNG STORAGE AREA
7	EY-404	ENLARGED PLAN - HANGAR
8	EY-501	ELECTRICAL SUBSYSTEMS DETAILS - 1
9	EY-502	ELECTRICAL SUBSYSTEMS DETAILS - 2
10	EY-503	ELECTRICAL SUBSYSTEMS DETAILS - 3
11	EY-504	ELECTRICAL SUBSYSTEMS DETAILS - 4
12	EY-601	ELECTRICAL SUBSYSTEMS DIAGRAMS - HANGAR
13	EY-602	ELECTRICAL SUBSYSTEMS DIAGRAMS - ECS AND LNG
14	EY-603	ELECTRICAL SUBSYSTEMS DIAGRAMS - PAD FIRST FLOOR
15	EY-604	ELECTRICAL SUBSYSTEMS DIAGRAMS - PAD SECOND FLOOR
16	EY-605	ELECTRICAL SUBSYSTEMS SCHEDULES
17	FA-001	FIRE ALARM GENEREAL NOTES, SYMBOLS, AND ABBREVIATIONS
18	FA-100	FIRE ALARM OVERALL SITE PLAN
19	FA-401	FIRE ALARM ENLARGED PLAN - LOX STORAGE AREA
20	FA-402	FIRE ALARM ENLARGED PLAN - PAD
21	FA-403	FIRE ALARM ENLARGED PLAN - LNG STORAGE AREA
22	FA-404	FIRE ALARM ENLARGED PLAN - HANGAR
23	S-001	GENERAL STRUCTURAL NOTES AND DETAILS

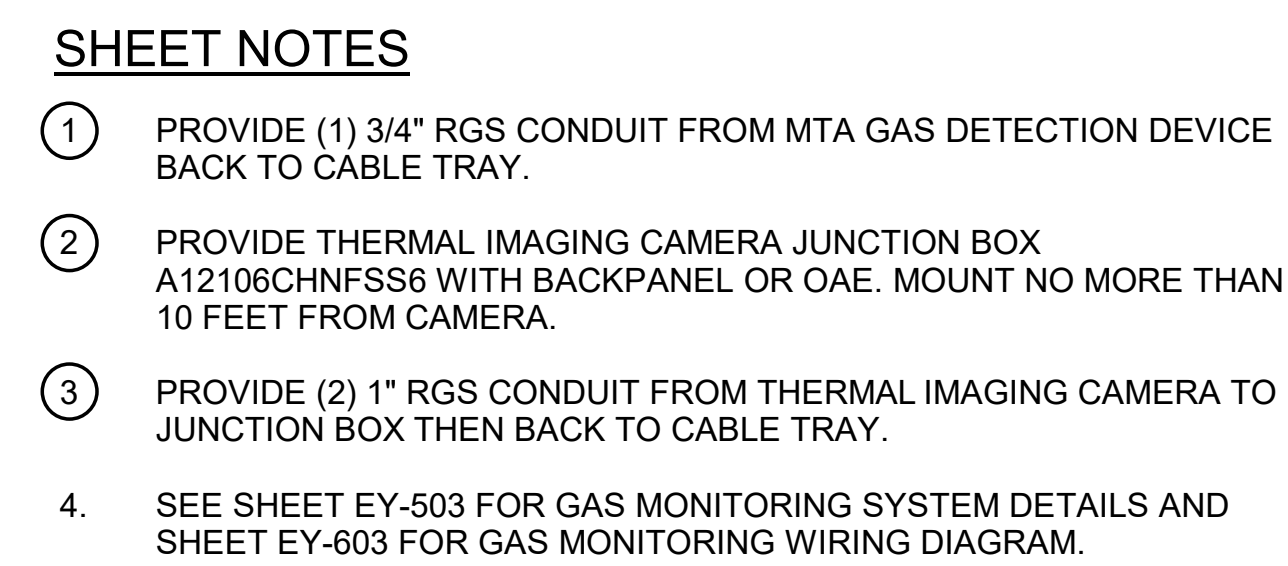
EQUIPMENT LIST			
DESCRIPTION	QNTY	PART NUMBER	MANUFACTURER
DIRECT CONNECT OXYGEN SENSOR W/JUNCTION BOX	15	65-2515RK	RKI INSTRUMENTS
DIRECT CONNECT LEL SENSOR W/JUNCTION BOX	13	61-1000RK-05	RKI INSTRUMENTS
STAND ALONE M2A TRANSMITTER (OXYGEN)	2	65-2643RK-05	RKI INSTRUMENTS
STAND ALONE M2A TRANSMITTER (COMBUSTIBLE GAS)	1	65-2640RK	RKI INSTRUMENTS
FIXED GAS DECTECTOR EIGHT CHANNEL CONTROLLER	2	BEACON 800	RKI INSTRUMENTS
FIXED GAS DECTECTOR FOUR CHANNEL CONTROLLER	4	BEACON 410	RKI INSTRUMENTS
BACKUP BATTERY	6	49-80104RK	RKI INSTRUMENTS
BLUE FLASHING LED	14	105XBRMB120A	EDWARD SIGNAL
RED FLASHING LED	8	105XBMRM120A	EDWARD SIGNAL
FLASHING LIGHT MOUNTING BRACKET	21	105BM	EDWARD SIGNAL
FLASHING LIGHT PIPE MOUNT	1	105PM	EDWARD SIGNAL
FLASHING LIGHT JUNCTION BOX	22	105BX	EDWARD SIGNAL
BUZZER	15	878EX-N5	EDWARD SIGNAL
QUASAR 900 OPEN PATH GAS DETECTOR (RECIEVER)	2	903-F-2-G-1_QR-F-112	SPECTREX
QUASAR 900 OPEN PATH GAS DETECTOR (TRANSMITTER)	2	903-F-2-G-1_QT-F-312	SPECTREX
THERMAL IMAGING CAMERA	2	EC-840S-TIC-09I-HR2-F55-B	STAHL
CAMERA MOUNTING BRACKET	2	251387	STAHL
NEMA 4X SS ENCLOSURE 24X24X12	3	A24H2412SS6LP3PT	HOFFMAN
SS BACK PANEL 24X24	3	A24P23SS6	HOFFMAN
NEMA 4X SS WINDOW KIT	3	APWK95NFSS	HOFFMAN
GN2 PURGE UNIT W/VENT ACCESSORIES	3	A3003YZVM	HOFFMAN
RESET PUSHBUTTON	3	9001KR1BH5	SQUARE D
PUSHBUTTON LEGEND	3	KN723BP	SQUARE D
RELAY	0	8501RSD42P14	SQUARE D
RELAY SOCKET	0	8501NR42	SQUARE D
NEMA 4X SS JUNCTION BOX	2	A12106CHNFSS6	HOFFMAN
SS BACK PANEL 12X10	2	A12P10SS	HOFFMAN

INTERIM SUBMITTAL - NOT FOR CONSTRUCTION

Relativity	8701 Aviation Blvd Inglewood, CA 90301	
	FIRE AND LEAK DETECTION ELECTRICAL SUBSYSTEMS GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	
PLATE REFERENCE NUMBER	EY001	
 DESIGNED BY: MAS DATE: 10/9/2020 DRAWN BY: KJH CHECKED BY: KJH SUBMITTED BY: CDW FILE NAME: 115 ALMA BLVD, SUITE 101 MERRITT ISLAND, FL 32953 321-453-0212 www.rsandh.com DWG NUMBER: 22734 SIZE D: 22"x34" SHEET: OF PLOT DATE: 22"x34"		

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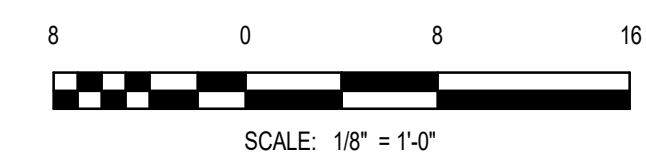




SHEET NOTES

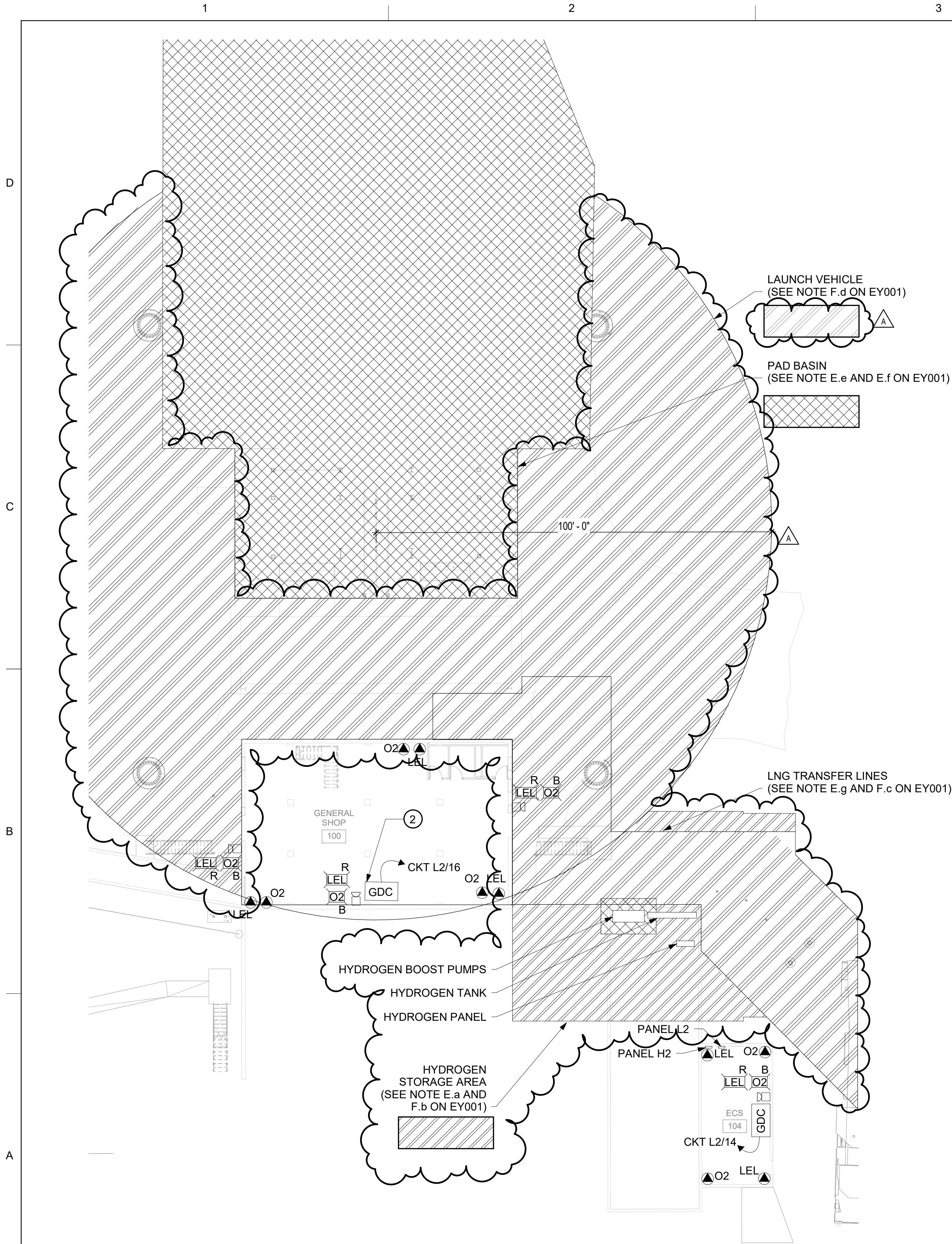
- ① PROVIDE (1) 3/4" RGS CONDUIT FROM MTA GAS DETECTION DEVICE BACK TO CABLE TRAY.
- ② PROVIDE THERMAL IMAGING CAMERA JUNCTION BOX A12106CHNFSS6 WITH BACKPANEL OR OAE. MOUNT NO MORE THAN 10 FEET FROM CAMERA.
- ③ PROVIDE (2) 1" RGS CONDUIT FROM THERMAL IMAGING CAMERA TO JUNCTION BOX THEN BACK TO CABLE TRAY.
4. SEE SHEET EY-503 FOR GAS MONITORING SYSTEM DETAILS AND SHEET EY-603 FOR GAS MONITORING WIRING DIAGRAM.

1 ENLARGEMENT PLAN - LOX AREA
SCALE: 1/8" = 1'-0"



INTERIM SUBMITTAL - NOT FOR CONSTRUCTION

Relativity FIRE AND LEAK DETECTION ENLARGED PLAN - LOX STORAGE AREA		8701 Aviation Blvd. Inglewood, CA 90301	
		PLATE REFERENCE NUMBER EY401	
DESIGNED BY: MAS DWN BY: MAS CHECKED BY: K.L.H. SUBMITTED BY: MAS DATE: 10/9/2020		FILE NAME: 227534* DWG NUMBER: 227534* SHEET: 227534 OF 227534 PLOT DATE: 227534	
115 ALMA BLVD, SUITE 101 MERRITT ISLAND, FL 32953 321-453-0212 www.rsandh.com			
HAZARDOUS PLAN UPDATES DESCRIPTION:		REVISION DATE BY	

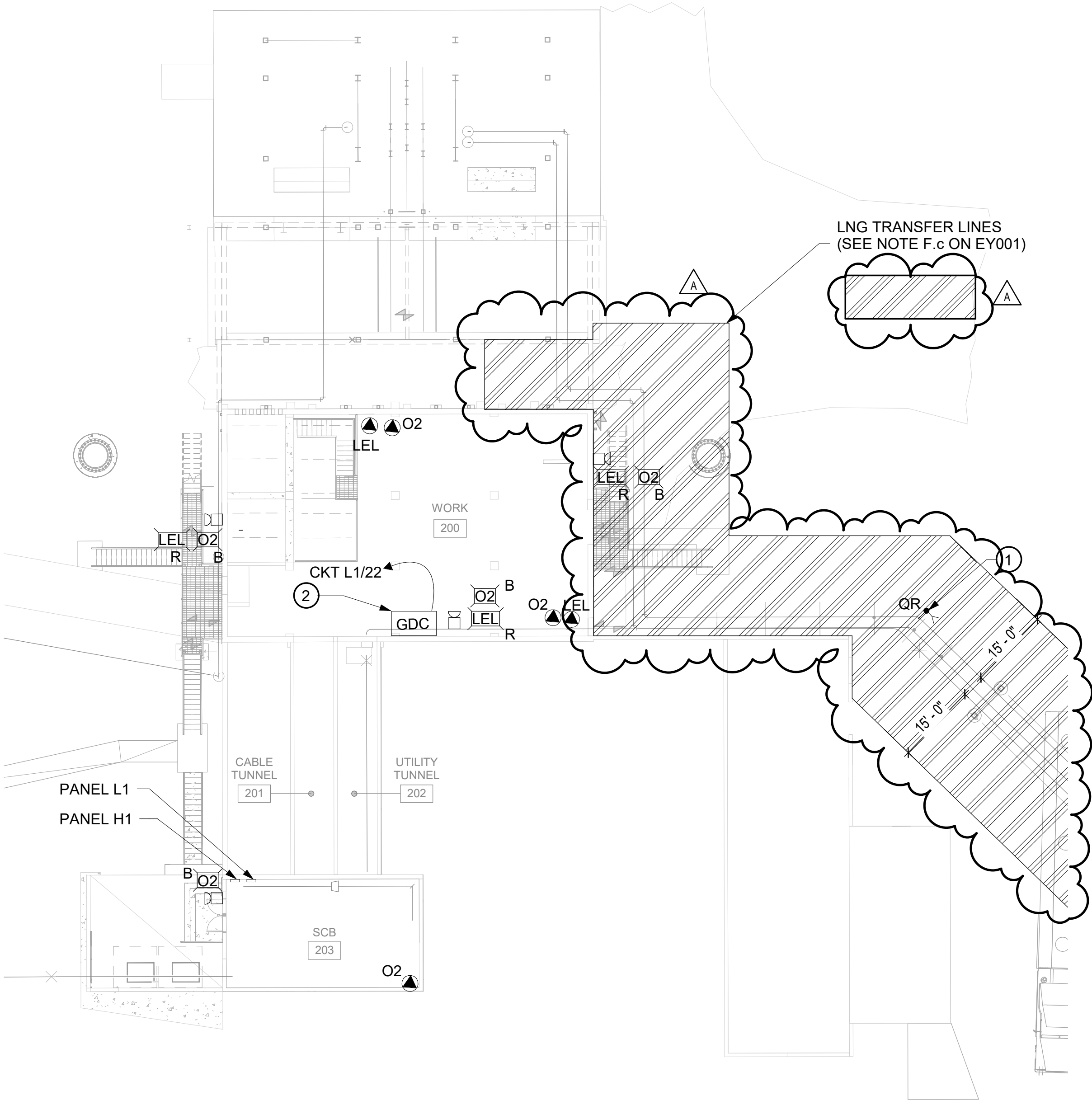


1 FIRST FLOOR ENLARGEMENT PLAN - PAD/ECS BUILDING
SCALE: 1/16" = 1'-0"

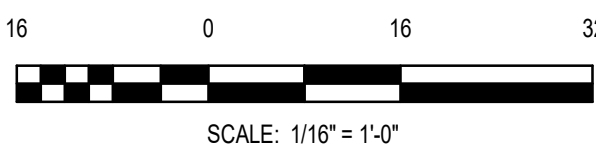
SHEET LEGEND

- CLASS 1, DIVISION 1, GROUPS B,C C, OR D OR ANY COMBINATION AS DELINEATED IN DRAWING
- CLASS I, DIVISION 2, GROUP B, AND D
- CLASS I, DIVISION 2, GROUP B

- SHEET NOTES**
- 1 PROVIDE (1) 3/4" RGS CONDUIT FROM MTA GAS DETECTION DEVICE BACK TO CABLE TRAY.
 - 2 GENERAL SHOPS ROOM 100 AND WORK AREA 200 ARE CONTINUALLY MONITORED FOR FLAMMABLE GASES AND OXYGEN. SHOULD THE LEVEL OF FLAMMABLE GASES REACH 25% OR MORE IN EITHER ROOM THE GDCs SHALL FORCE A SHUTDOWN EXHAUST FANS EF-1 THRU EF-4 AND CLOSE INTAKE DAMPER LOCATED IN ROOM 100 AND SHUTDOWN EF-5 LOCATED IN ROOM 200. COORDINATE RELAY ATTACHMENT FROM GDCs AND MECHANICAL EQUIPMENT ACCORDINGLY.



2 SECOND FLOOR ENLARGEMENT PLAN - PAD/ECS BUILDING
SCALE: 1/16" = 1'-0"



INTERIM SUBMITTAL - NOT FOR CONSTRUCTION

DATE	BY
02/25/2021	MAS
DESCRIPTION	SYMBOL
HAZARDOUS PLAN UPDATES	REV A

DESIGNED BY:	DATE:
MAS	10/9/2020
DWN BY:	CRD BY:
MAS	KLH
SUBMITTED BY:	CHKD BY:
CW	KLH
NAME:	DATE:
MERRITT ISLAND, FL 32953	2/25/2021
SIZE:	OF
22'x34"	1

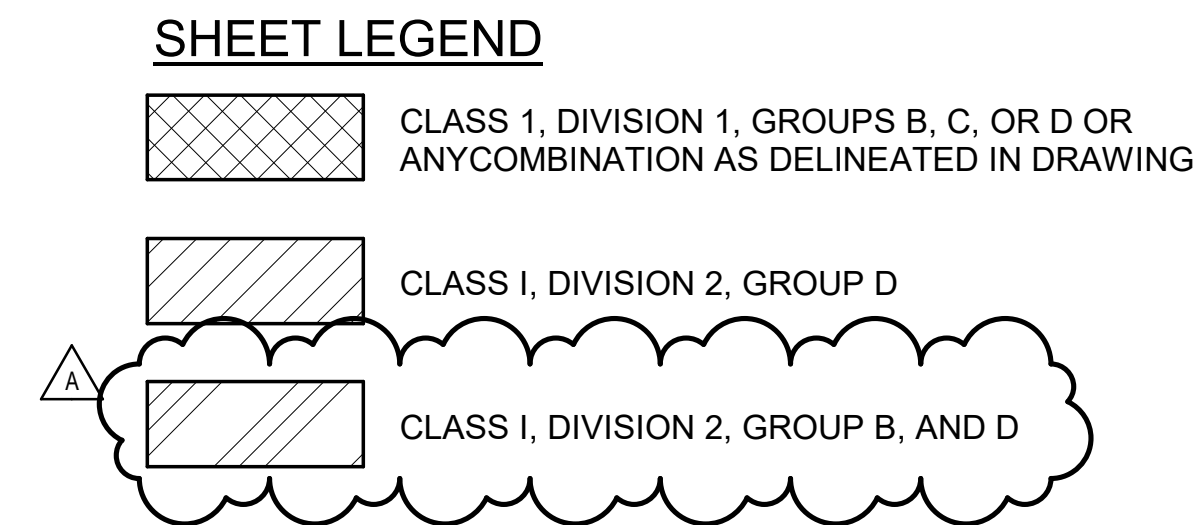
Relativity 8701 Aviation Blvd.
Inglewood, CA 90301

FIRE AND LEAK DETECTION

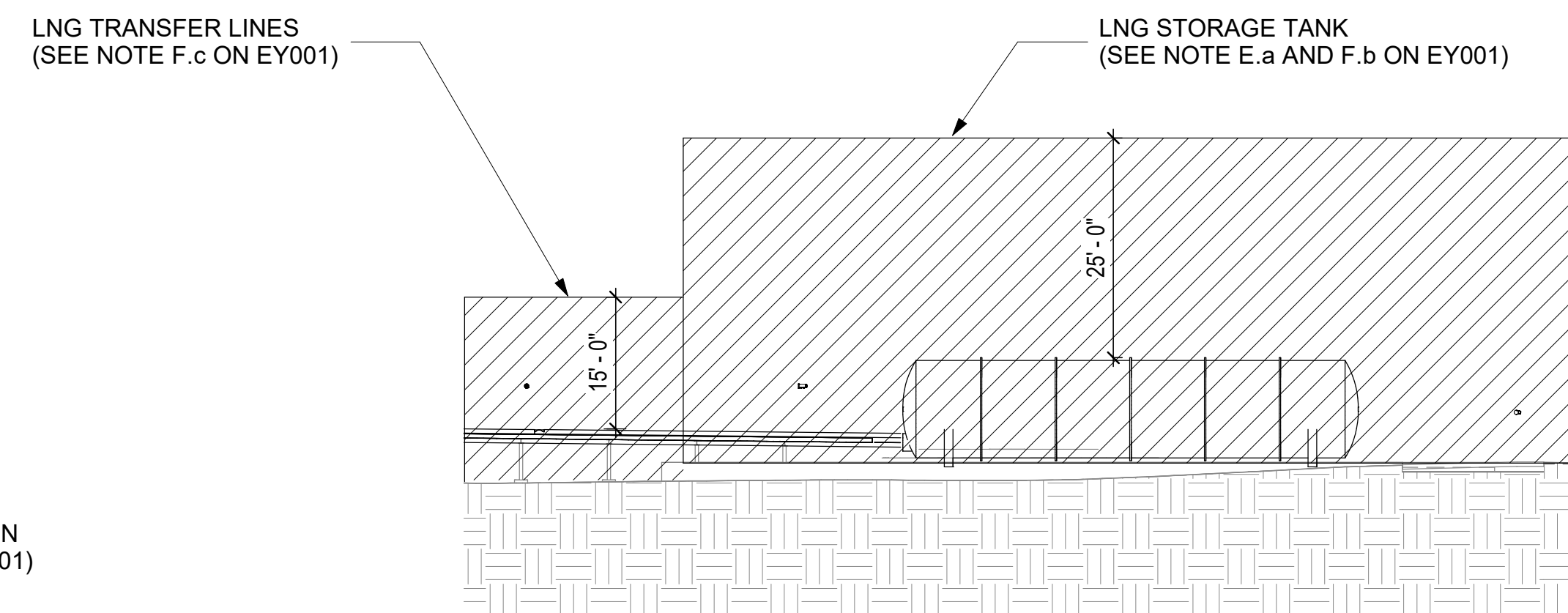
ENLARGED PLAN - PAD

PLATE REFERENCE NUMBER
EY402

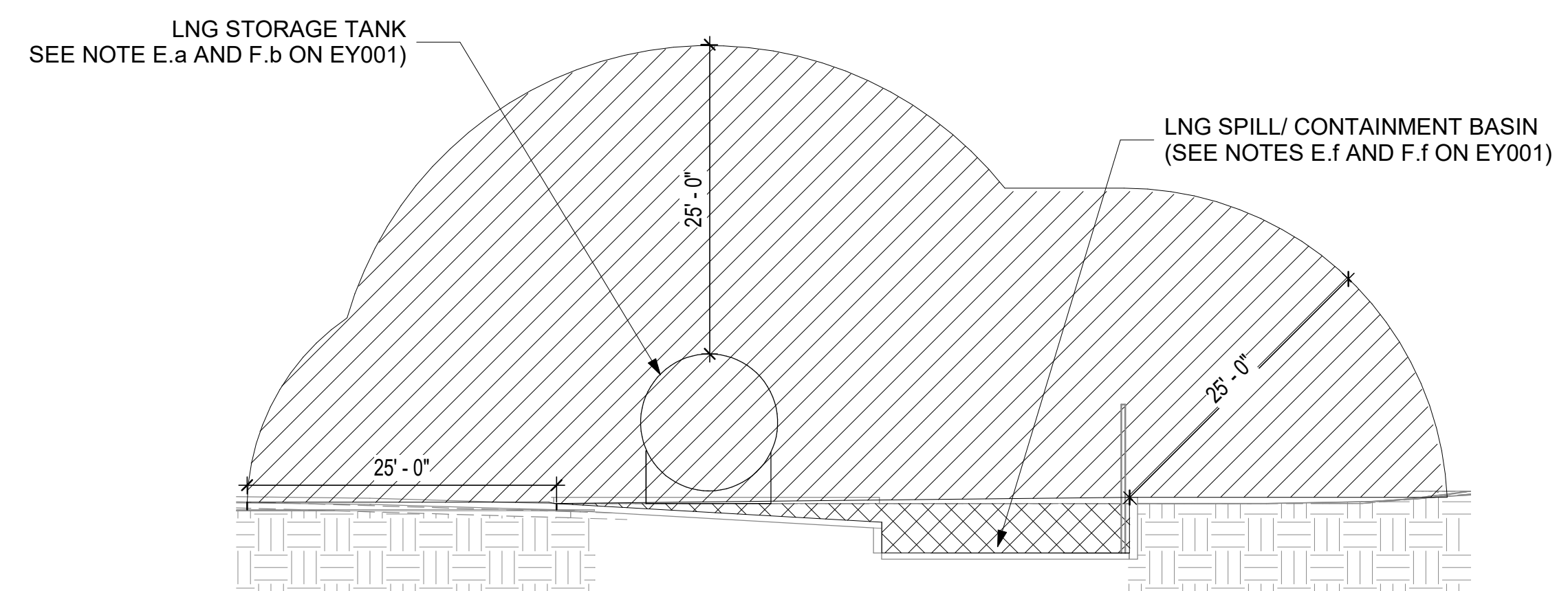
1 ENLARGEMENT PLAN - LNG AREA
SCALE: 1/16" = 1'-0"



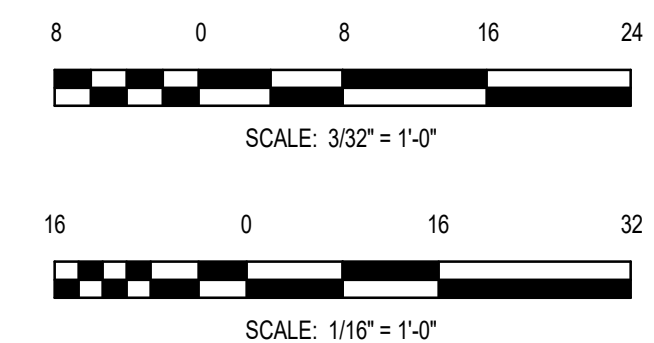
- ## SHEET NOTES
1. PROVIDE (2) 3/4" RGS CONDUIT FROM OPEN PATH GAS DETECTION DEVICE BACK TO CABLE TRAY.
 2. PROVIDE THERMAL IMAGING CAMERA JUNCTION BOX A12106CHNFSS6 WITH BACKPANEL OR OAE. MOUNT NO MORE THAN 10 FEET FROM CAMERA.
 3. PROVIDE (2) 1" RGS CONDUIT FROM THERMAL IMAGING CAMERA TO JUNCTION BOX THEN BACK TO CABLE TRAY.
 4. SEE SHEET EY-501 THRU EY-504 FOR GAS MONITORING SYSTEM DETAILS AND SHEET EY-601 THRU EY-604 FOR GAS MONITORING WIRING DIAGRAM.



2 LNG AREA SECTION - 2
SCALE: 1/16" = 1'-0"

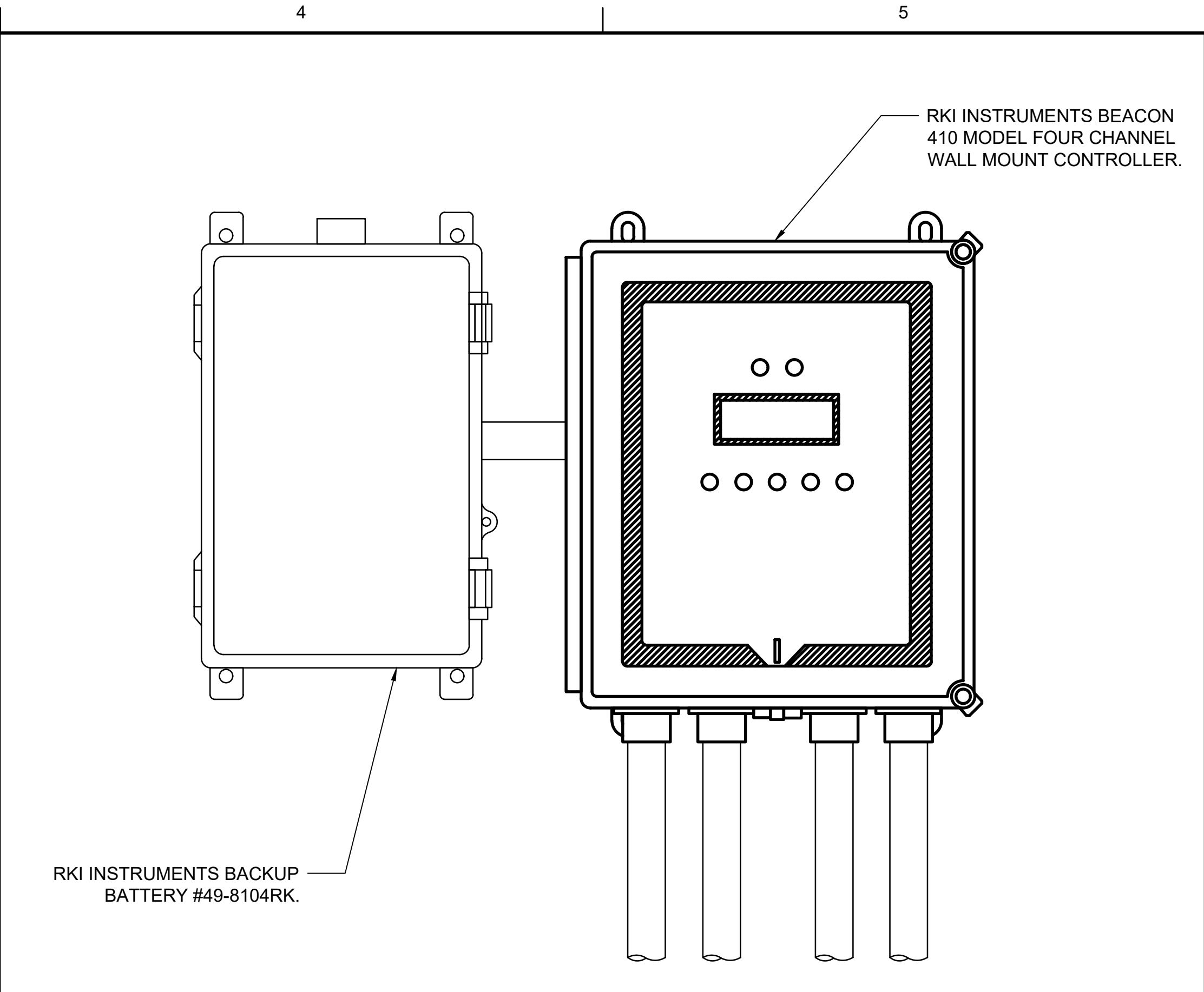
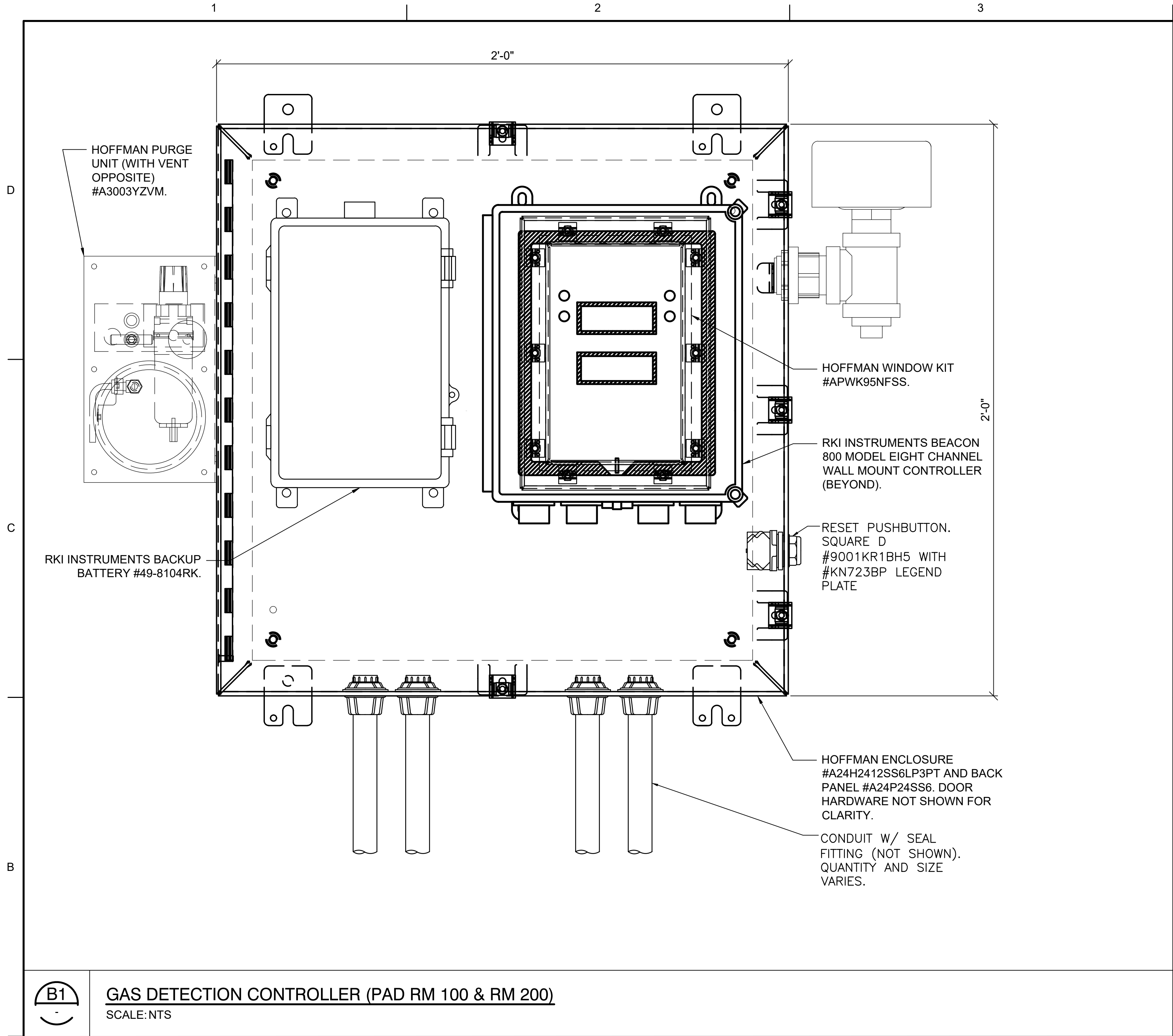


3 LNG AREA SECTION - 3
SCALE: 3/32" = 1'-0"



INTERIM SUBMITTAL - NOT FOR CONSTRUCTION

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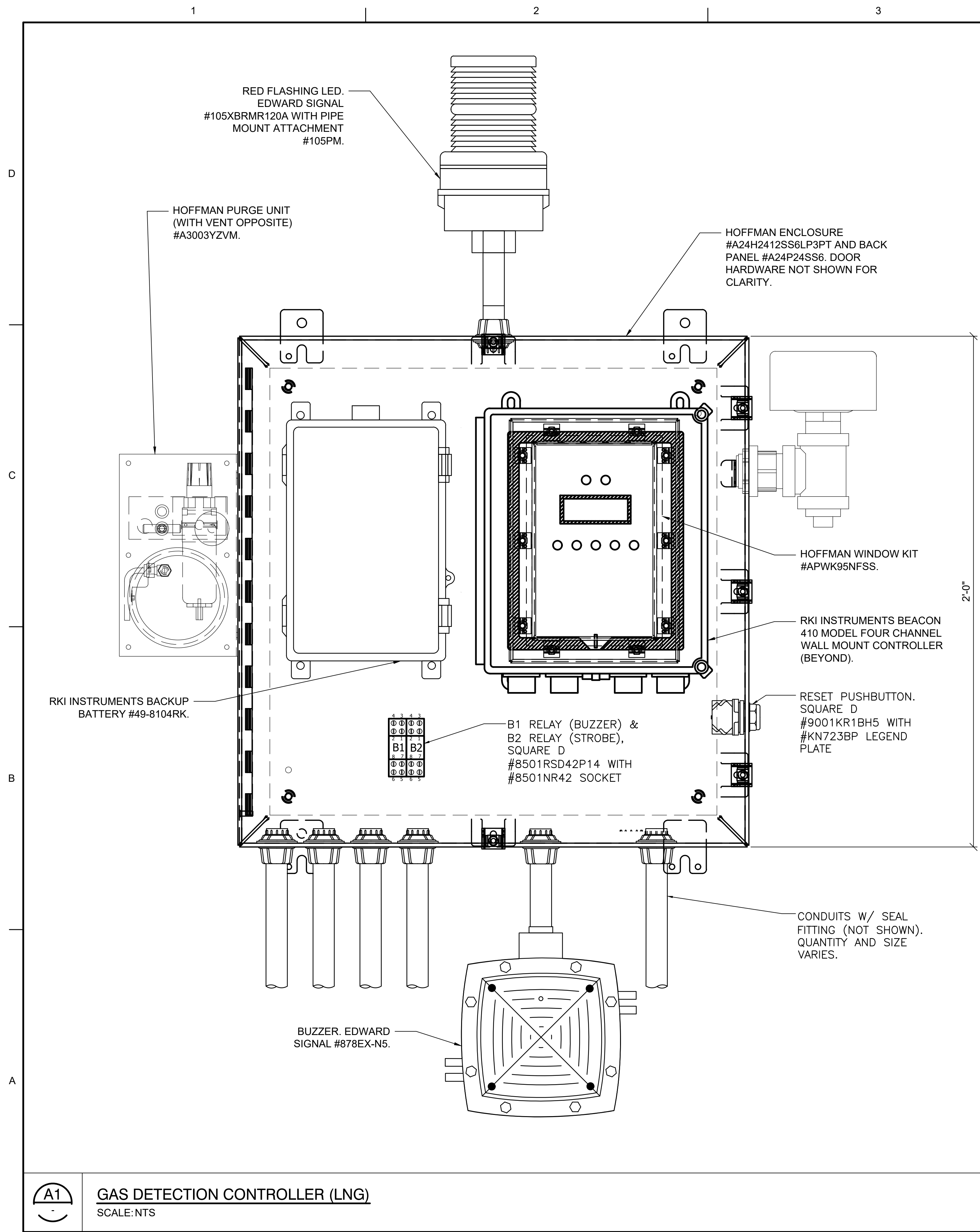


C4

OXYGEN MONITOR CONTROLLER (HANGAR H1 & H2 AND ECS)
SCALE: NTS

INTERIM SUBMITTAL - NOT FOR CONSTRUCTION

8701 Aviation Blvd. Inglewood, CA 90301		CX16 FIRE ALARM AND LEAK DETECTION		ELECTRICAL SUBSYSTEMS DETAILS - 3		PLATE REFERENCE NUMBER EY-503	
Relativity		RS&H		115 ALVA BLVD, SUITE 101 MERRITT ISLAND, FL 32953 321-453-0212 www.rsandh.com		FILE NAME: REL4EY-303.DWG SIZE: D SHEET: 12 OF 24	
DESIGNED BY: KLH	CHKD BY: KLH	DWN BY: MAS	SUBMITTED BY: CDW	DATE: 8/14/2020	DWG NUMBER: RS-D001-2020	PLOT DATE: 8/15/2020	SYMBOL
							DESCRIPTION
							DATE
							BY



DETAIL NOTES:

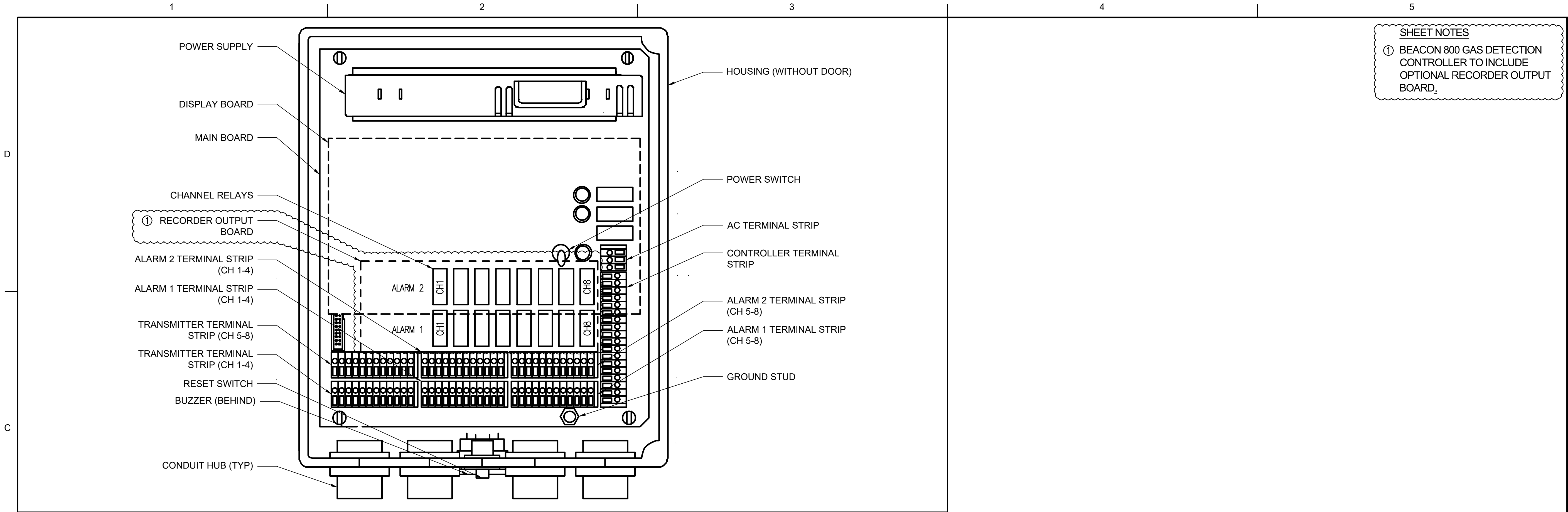
- 1 LOCATE STANCHIONS AS REQUIRE BY ENCLOSURE SIZES.
- 2 ENCLOSURE SHOWN FOR REFERENCE. CONTRACTOR SHALL USE SIMILAR METHODS OF MOUNTING MULTIPLE DEVICES/ ENCLOSURES SHOWN IN CLOSE PROXIMITY OF ONE ANOTHER.

INTERIM SUBMITTAL - NOT FOR CONSTRUCTION

DESIGNED BY: KLH	DATE: 8/14/2020	RS&H 115 ALMA BLVD, SUITE 101 MERRITT ISLAND, FL 32953 321-453-0212 www.rsandh.com
DWN BY: MAS	CHECK BY: KLH	
SUBMITTED BY: CDW	DATE: 8/13/2020	
FILE NAME: REL4EY-504.DWG	DWG NUMBER: RS-D001-2020	
SIZE: D 14" x 24"		OF
Relativity 8701 Aviation Blvd, Inglewood, CA 90301		
CX16 FIRE ALARM AND LEAK DETECTION		
ELECTRICAL SUBSYSTEMS		
DETAILS - 4		
PLATE REFERENCE NUMBER EY-504		

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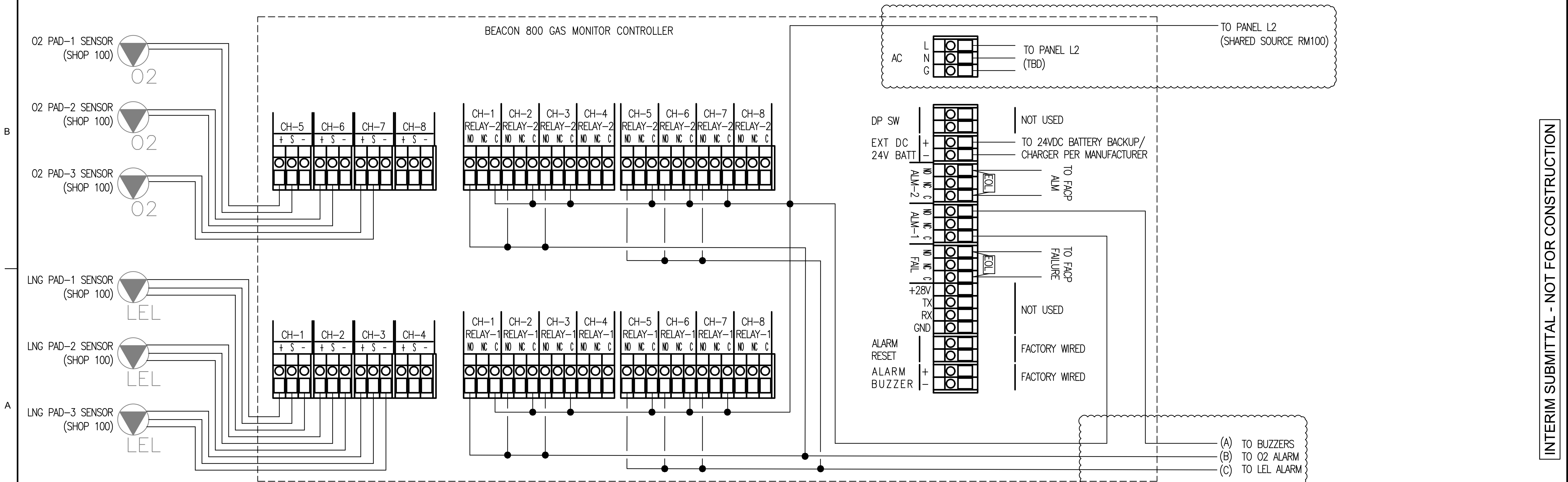
PLATE
REFERENCE
NUMBER
EY-601



SHEET NOTES

① BEACON 800 GAS DETECTION CONTROLLER TO INCLUDE OPTIONAL RECORDER OUTPUT BOARD.

C1
GAS DETECTION CONTROLLER - BEACON 800 LAYOUT
SCALE: NTS



A1
GAS DETECTION CONTROLLER - GENERAL SHOP RM 100
SCALE: NTS

INTERIM SUBMITTAL - NOT FOR CONSTRUCTION

DESIGNED BY: KLH	CHKD BY: MAS	DATE: 8/14/2020
SUBMITTED BY: CSW	FILE NAME: PROJECT 603.DWG	DWG NUMBER: RS-D001-2020
SHEET: 22X34"		OF: 4/20/2021

Relativity 8701 Aviation Blvd
Inglewood, CA 90301

CX16 FIRE ALARM AND LEAK DETECTION ELECTRICAL SUBSYSTEMS

DIAGRAM - PAD FIRST FLOOR

PLATE REFERENCE NUMBER
EY-603

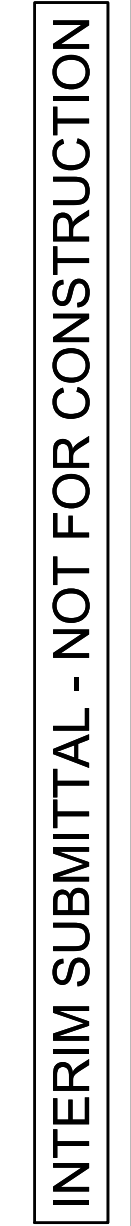


PLATE
REFERENCE
NUMBER
EY-604

D

C

B

A

PANEL: H1														
RATING: 400 AMP MCB					LUG LOCATION: BOTTOM					A.I.C.: 25,000				
SERVICE: 480/277V, 3Ø, 4W					MOUNTING: SURFACE					TYPE: PANELBOARD				
CKT. NO.	EQUIPMENT SERVED	KVA	CKT.BKR. POLE TRIP	BRANCH Ø	CIRCUIT N	GND C	Ø	CKT. NO.	EQUIPMENT SERVED	KVA	CKT.BKR. POLE TRIP	BRANCH Ø	CIRCUIT N	GND C
1	TRANSFORMER T1	30	3 45	6	—	8 1	1	2	UPS BY OTHERS **	83**	3 125	1	1	6 1.5
3	—	—	—	—	—	—	—	4	—	—	—	—	—	—
5	—	—	—	—	—	—	—	6	—	—	—	—	—	—
7	CU-1	11	3 20	12	—	12 3/4	—	8	LIGHTING, 100	.84	1 20	12	12	12 3/4
9	—	—	—	—	—	—	—	10	LIGHTING, 200	1.5	1 20	12	12	12 3/4
11	—	—	—	—	—	—	—	12	LIGHTING, IBAY	0.5	1 20	12	12	12 3/4
13	CU-2	11	3 20	12	—	12 3/4	—	14	LIGHTING, EXT	0.4	1 20	12	12	12 3/4
15	—	—	—	—	—	—	—	16	TRANSFORMER T3	9	3 15	12	—	12 3/4
17	—	—	—	—	—	—	—	18	—	—	—	—	—	—
19	AHU-1	11	3 25	10	—	12 3/4	—	20	—	—	—	—	—	—
21	—	—	—	—	—	—	—	22	—	—	—	—	—	—
23	—	—	—	—	—	—	—	24	—	—	—	—	—	—
25	AHU-2	11	3 25	10	—	12 3/4	—	26	—	—	—	—	—	—
27	—	—	—	—	—	—	—	28	—	—	—	—	—	—
29	—	—	—	—	—	—	—	30	—	—	—	—	—	—
31	EF-4	2	3 15	12	—	12 3/4	—	32	PANEL H2	20.4	3 100	1/0	1/0	4 1.5
33	—	—	—	—	—	—	—	34	—	—	—	—	—	—
35	—	—	—	—	—	—	—	36	—	—	—	—	—	—
37	EF-5	1.5	3 15	12	—	12 3/4	—	38	SPD	—	3 30	10	10	10 3/4
39	—	—	—	—	—	—	—	40	—	—	—	—	—	—
41	—	—	—	—	—	—	—	42	—	—	—	—	—	—
EQUIPMENT SERVED					CONN. LOAD	L.F.	D.F.	DEMAND	REMARKS:					
LIGHTING					3.6 KVA			3.6 KVA	PROVIDE PANELBOARD DIRECTORY					
EQUIPMENT					86.5 KVA			86.5 KVA						
SUBPANEL L1					17.4 KVA			17.4 KVA						
SUBPANEL H2					20.4 KVA			20.4 KVA						
UPS **					83 KVA			83 KVA						
TOTAL CONNECTED								211 KVA						
MAXIMUM AMPS								254 AMPS						

PANEL: H2														
RATING: 100 AMP MCB					LUG LOCATION: TOP					A.I.C.: 10,000				
SERVICE: 480/277V, 3Ø, 4W					MOUNTING: SURFACE					TYPE: PANELBOARD				
CKT. NO.	EQUIPMENT SERVED	KVA	CKT.BKR. POLE TRIP	BRANCH Ø	CIRCUIT N	GND C	Ø	CKT. NO.	EQUIPMENT SERVED	KVA	CKT.BKR. POLE TRIP	BRANCH Ø	CIRCUIT N	GND C
1	TRANSFORMER T2	30	3 45	6	—	8 1	1	2	EQUIPMENT BY OTHERS	10	3 35	8	—	10 3/4
3	—	—	—	—	—	—	—	4	—	—	—	—	—	—
5	—	—	—	—	—	—	—	6	—	—	—	—	—	—
7	PAC-1	8	3 25	12	—	12 3/4	—	8	LIGHTING, EXT	.1	1 20	12	12	12 3/4
9	—	—	—	—	—	—	—	10	LIGHTING, INT	.4	1 20	12	12	12 3/4
11	—	—	—	—	—	—	—	12	—	—	—	—	—	—
13	—	—	—	—	—	—	—	14	—	—	—	—	—	—
15	—	—	—	—	—	—	—	16	—	—	—	—	—	—
17	—	—	—	—	—	—	—	18	—	—	—	—	—	—
19	—	—	—	—	—	—	—	20	—	—	—	—	—	—
21	—	—	—	—	—	—	—	22	—	—	—	—	—	—
23	—	—	—	—	—	—	—	24	—	—	—	—	—	—
25	—	—	—	—	—	—	—	26	—	—	—	—	—	—
27	—	—	—	—	—	—	—	28	—	—	—	—	—	—
29	—	—	—	—	—	—	—	30	—	—	—	—	—	—
31	—	—	—	—	—	—	—	32	—	—	—	—	—	—
33	—	—	—	—	—	—	—	34	—	—	—	—	—	—
35	—	—	—	—	—	—	—	36	—	—	—	—	—	—
37	—	—	—	—	—	—	—	38	SPD	—	3 30	10	10	10 3/4
39	—	—	—	—	—	—	—	40	—	—	—	—	—	—
41	—	—	—	—	—	—	—	42	—	—	—	—	—	—
EQUIPMENT SERVED					CONN. LOAD	L.F.	D.F.	DEMAND	REMARKS:					
LIGHTING					0.5 KVA			0.5 KVA	PROVIDE PANELBOARD DIRECTORY					
SUBPANEL L2					1.9 KVA			1.9 KVA						
EQUIPMENT					18 KVA			18 KVA						
TOTAL CONNECTED								20.4 KVA						
MAXIMUM AMPS								24.5						

PANEL: L1														
RATING: 100 AMP MCB					LUG LOCATION: TOP					A.I.C.: 10,000				
SERVICE: 120/208V, 3Ø, 4W					MOUNTING: SURFACE					TYPE: PANELBOARD				
CKT. NO.	EQUIPMENT SERVED	KVA	CKT.BKR. POLE TRIP	BRANCH Ø	CIRCUIT N	GND C	Ø	CKT. NO.	EQUIPMENT SERVED	KVA	CKT.BKR. POLE TRIP	BRANCH Ø	CIRCUIT N	GND C
1	RECEPTACLES, EXT	.72	1 20	12	12	12 3/4	—	2	EF-1, 2, 3, DAMPERS	.2	1 15	12	12	12 3/4
3	RECEPTACLES, EXT	.54	1 20	12	12	12 3/4	—	4	MOTORIZED DAMPERS	.1	1 15	12	12	12 3/4
5	RECEPTACLES, RM 100	.54	1 20	12	12	12 3/4	—	6	ODU-1	1.2	2 15	12	—	12 3/4
7	RECEPTACLES, RM 100	.38	1 20	12	12	12 3/4	—	8	—	—	—	—	—	—
9	RECEPTACLES, RM 100	.9	1 20	12	12	12 3/4	—	10	ODU-2	1.2	2 15	12	—	12 3/4
11	RECEPTACLES, RM 100	.72	1 20	12	12	12 3/4	—	12	—	—	—	—	—	—
13	RECEPTACLES, RM 100	.72	1 20	12	12	12 3/4	—	14	EWB-2	5	2 30	10	—	10 3/4
15	RECEPTACLES, RM 200	.54	1 20	12	12	12 3/4	—	16	—	—	—	—	—	—
17	RECEPTACLES, RM 200	1.2	1 20	12	12	12 3/4	—	18	EWB-1	1.5	1 20	12	12	12 3/4
19	RECEPTACLES, RM 200	.72	1 20	12	12	12 3/4	—	20	—	—	—	—	—	—
21	RECEPTACLES, RM 200	.72	1 20	12	12	12 3/4	—	22	BEACAN 800 - WORK	—	1 20	—	—	3/4
23	RECEPTACLES, RM 202	.54	1 20	12	12	12 3/4	—	24	SPARE	—	1 20	—	—	—
25	RECEPTACLES, RM 202	.54	1 20	12	12	12 3/4	—	26	SPARE	—	1 20	—	—	—
27	RECEPTACLES, RM 202	.54	1 20	12	12	12 3/4	—	28	SPARE	—	1 20	—	—	—
29	RECEPTACLES, RM 202	.18	1 20	12	12	12 3/4	—	30	SPARE	—	1 20	—	—	—
31	—	—	—	—	—	—	—	32	—	—	—	—	—	—
33	—	—	—	—	—	—	—	34	—	—	—	—	—	—
35	—	—	—	—	—	—	—	36	—	—	—	—	—	—
37	—	—	—	—	—	—	—	38	—	—	—	—	—	—
39	—	—	—	—	—	—	—	40	—	—	—	—	—	—
41	—	—	—	—	—	—	—	42	—	—	—	—	—	—
EQUIPMENT SERVED					CONN. LOAD	L.F.	D.F.	DEMAND	REMARKS:					
RECEPTACLES & MISC					8.3 KVA			8.3 KVA	PROVIDE PANELBOARD DIRECTORY					
EQUIPMENT					9.1 KVA			9.1 KVA						
TOTAL CONNECTED								17.4 KVA						
MAXIMUM AMPS								48.4						

PANEL: L2																	
RATING: 100 AMP MCB							LUG LOCATION: TOP							A.I.C.: 10,000			
SERVICE: 120/208V, 3ø, 4W							MOUNTING: SURFACE							TYPE: PANELBOARD			
CKT. NO.	EQUIPMENT SERVED	KVA	CKT.BKR. POLE	TRIP	BRANCH ø	N	GND C	ø	CKT. NO.	EQUIPMENT SERVED	KVA	CKT.BKR. POLE	TRIP	BRANCH ø	N	GND C	C
1	RECEPTACLES, EXT	.38	1	20	12	12	12	3/4	2	TBD	—	2	15	12	—	12	3/4
3	RECEPTACLES	.38	1	20	12	12	12	3/4	4	└			└	└			
5	RECEPTACLES	.38	1	20	12	12	12	3/4	6	TBD	—	2	15	12	—	12	3/4
7	RECEPTACLES	.38	1	20	12	12	12	3/4	8	└			└	└			
9	RECEPTACLES	.38	1	20	12	12	12	3/4	10								
11									12								
13									14	BEACAN 410A - ECS		1	20				3/4
15									16	BEACAN 800 - GEN. SHOP		1	20				3/4
17									18	BEACAN 410A - LNG STORAGE		1	20				3/4
19									20	SPARE		1	20				
21									22	SPARE		1	20				
23									24	SPARE		1	20				
25									26								
27									28								
29									30								
31									32								
33									34								
35									36								
37									38								
39									40								
41									42								
EQUIPMENT SERVED					CONN. LOAD		L.F.	D.F.	DEMAND		REMARKS:						
RECEPTACLES & MISC EQUIPMENT					1.9 KVA				1.9 KVA		PROVIDE PANELBOARD DIRECTORY						

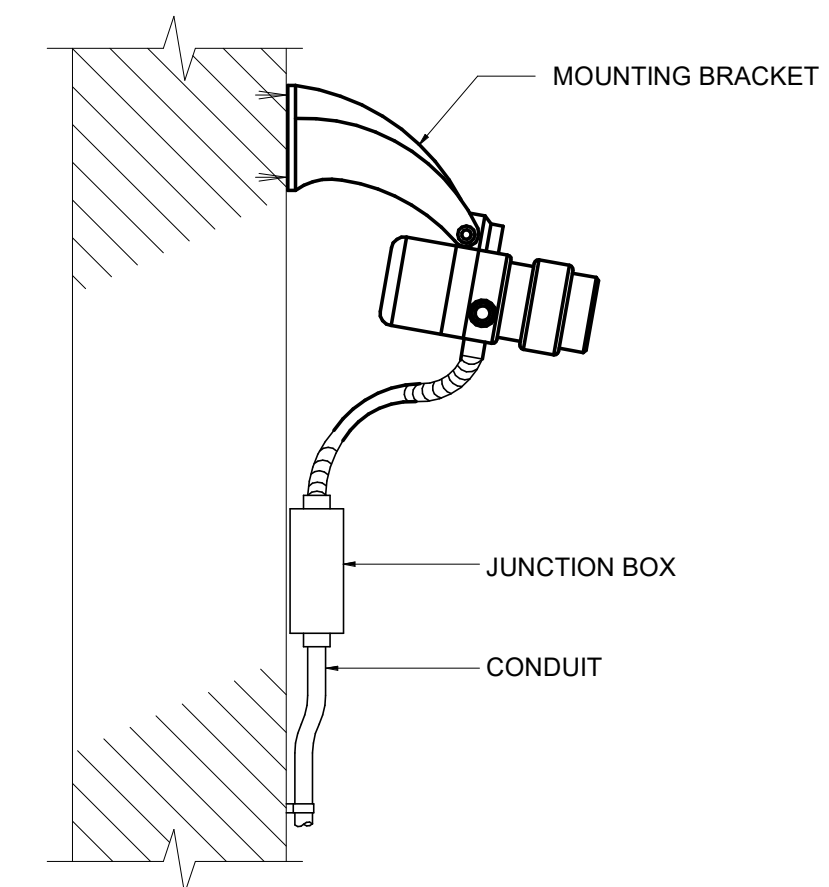
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FIRE ALARM GENERAL NOTES

- A. PROVIDE FIRE ALARM SYSTEMS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2017 EDITION, 6TH EDITION FLORIDA FIRE PREVENTION CODE, NFPA 72 AND THE CONTRACT DOCUMENTS.
- B. ALL INITIATING, NOTIFICATION, AND SIGNALING CIRCUITS SHALL BE CLASS B MINIMUM. PROVIDE SLC CIRCUITS IN ACCORDANCE WITH NFPA 72.
- C. THE AIR ASPIRATING DETECTOR IN THE HANGAR SHALL BE LISTED FOR THE BUILDING HEIGHT. ORIFICE AND PIPING LAYOUT IS DIAGRAMMATIC; COORDINATE WITH MANUFACTURER ON THE CONFIGURATION AND CONTROL UNITS AS NECESSARY TO PROVIDE COMPLETE HANGAR COVERAGE IN ACCORDANCE WITH NFPA 72.
- D. PROVIDE SURGE PROTECTORS FOR THE POWER SUPPLY FOR ALL FIRE ALARM PANELS AND ON ALL CIRCUITS OUTSIDE OF THE BUILDINGS.
- E. PROVIDE SPOT SMOKE DETECTION AT EACH INTERIOR PANEL, TERMINAL CABINET, ETC. AS REQUIRED BY NFPA 72.
- F. PROVIDE BATTERY AND VOLTAGE DROP CALCULATIONS.
- G. BATTERIES CAN BE PROVIDED AT TERMINAL CABINETS TO REDUCE WIRE SIZING TO REMOTE AREAS.
- H. MOUNT FLAME DETECTORS APPROXIMATELY 45 DEGREES FROM VERTICAL. RANGE OF VIEW TO EXCLUDE HORIZON AND INCLUDE THE ENTIRETY OF THE HAZARD. FINAL ANGLE OF INSTALLATION TO BE COORDINATED DURING COMMISSIONING.
- I. SYSTEM IS MONITORED AT THE REMOTE ANNUNCIATOR LOCATED AT THE CONSTANTLY ATTENDED GUARD STATION. GUARDS WILL CALL FIRE DEPARTMENT AS NECESSARY.

FIRE ALARM LEGEND

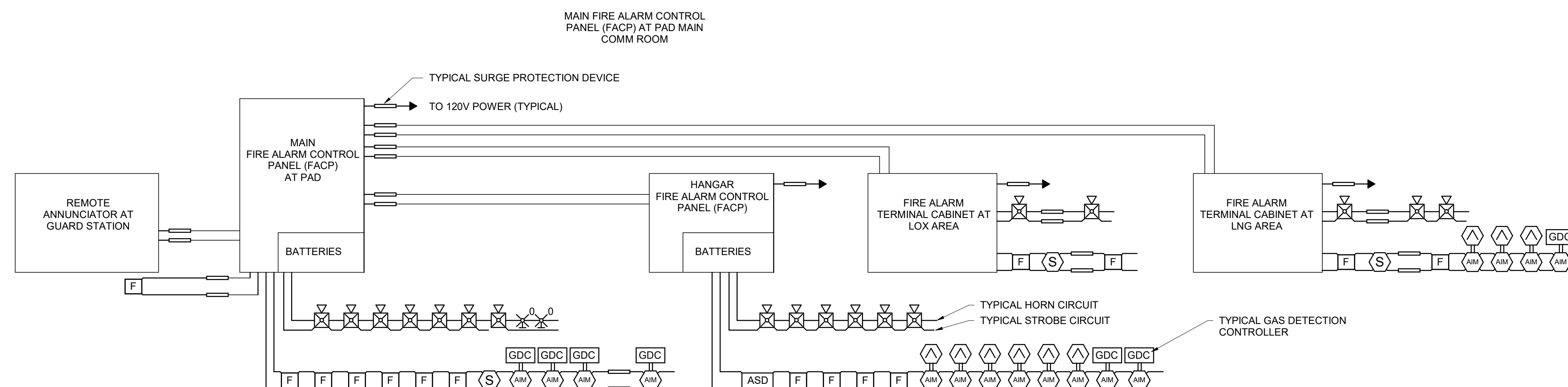
	FIRE ALARM CONTROL PANEL
	FIRE ALARM TERMINAL CABINET
	AIR ASPIRATING DETECTOR
	GAS DETECTOR CONTROLLER
	FIRE ALARM FLAME DETECTOR
	FIRE ALARM SMOKE DETECTOR
	FIRE ALARM PULL STATION
	FIRE ALARM HORN/STROBE DEVICE (WITH CANDELA)
	FIRE ALARM ADDRESSIBLE INPUT MODULE
	SURGE SUPPRESSOR
	AIR SAMPLING DETECTOR PORT
	AIR SAMPLING DETECTION TUBING
	FIRE EXTINGUISHER



SEE PLANS AND STRUCTURAL DETAIL ON S001 FOR
MOUNTING HEIGHTS

(

TYPICAL FLAME DETECTOR



NOTES: SYSTEM IS MONITORED AT THE REMOTE ANNUNCIATOR LOCATED AT THE CONSTANTLY ATTENDED GUARD STATION. GUARDS WILL CALL FIRE DEPARTMENT AS NECESSARY.

FIRE ALARM RISER DIAGRAM

INTERIM SUBMITTAL - NOT FOR CONSTRUCTION

Relativity
8701 Aviation Blvd,
Inglewood, CA 90301
FIRE AND LEAK DETECTION

FIRE ALARM GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

PLATE
REFERENCE
NUMBER
FA001

[illegible]

		DESIGNED BY:		DATE:	
		AR		10/9/2020	
115 ALMA BLVD, SUITE 101 MERRITT ISLAND, FL 32953 321-453-0212 www.rsandh.com		DWG BY:		CKO BY:	
		SD		SD	
		SUBMITTED BY:		DWG NUMBER:	
		SD		22'X34'	
		FILE NAME:		PLOT DATE:	
		22'X34'		22'X34'	
		SIZE:		SHEET:	
		22'X34'		OF	

RS&H
115 ALMA BLVD, SUITE 101
MERRITT ISLAND, FL 32953
321-453-0212 www.rsandh.com

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8701 Aviation Blvd,
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FIRE AND LEAK DETECTION

**FIRE ALARM GENERAL NOTES,
SYMBOLS AND ABBREVIATIONS**

PLATE
REFERENCE
NUMBER
FA001



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FIRE AND LEAK DETECTION

FIRE ALARM ENLARGED PLAN -
PAD

PLATE
REFERENCE
NUMBER
FA402

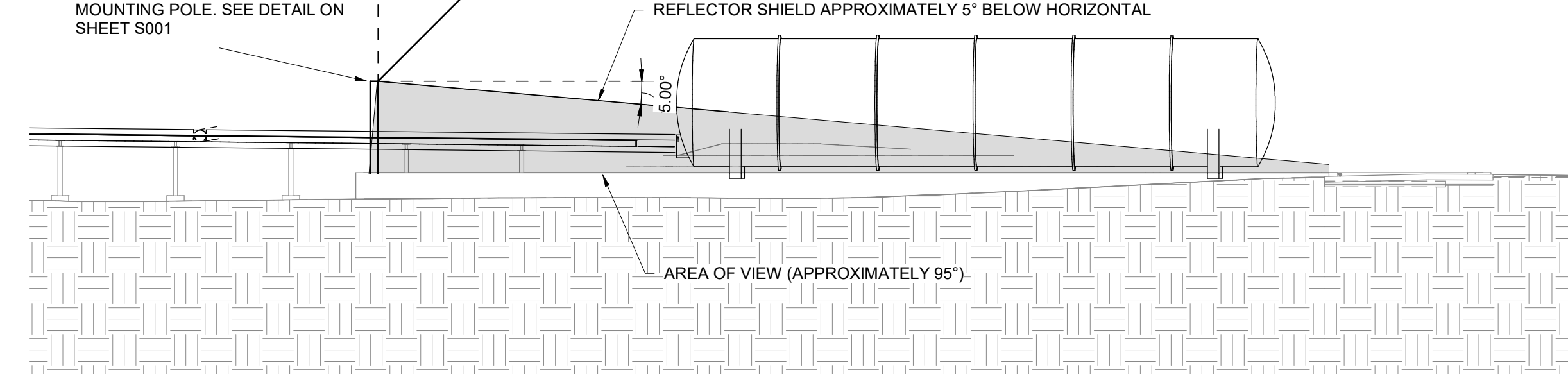
RS&H

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321-453-0212 www.rsandh.com

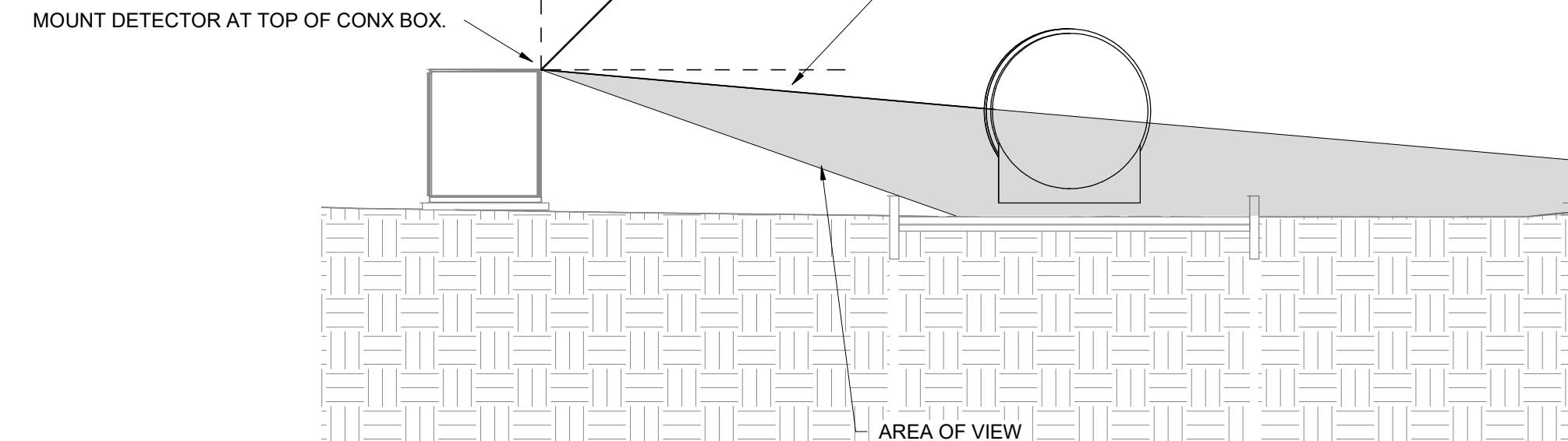
DESIGNED BY:	DATE:	SYMBOL	DESCRIPTION	DATE	BY
AR	10/9/2020				
DWN BY:					
AR					
CKD BY:					
SD					
SUBMITTED BY:					
SD					
SUB NAME:					
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22'x34"					
PLOT DATE:					
22'x34"					



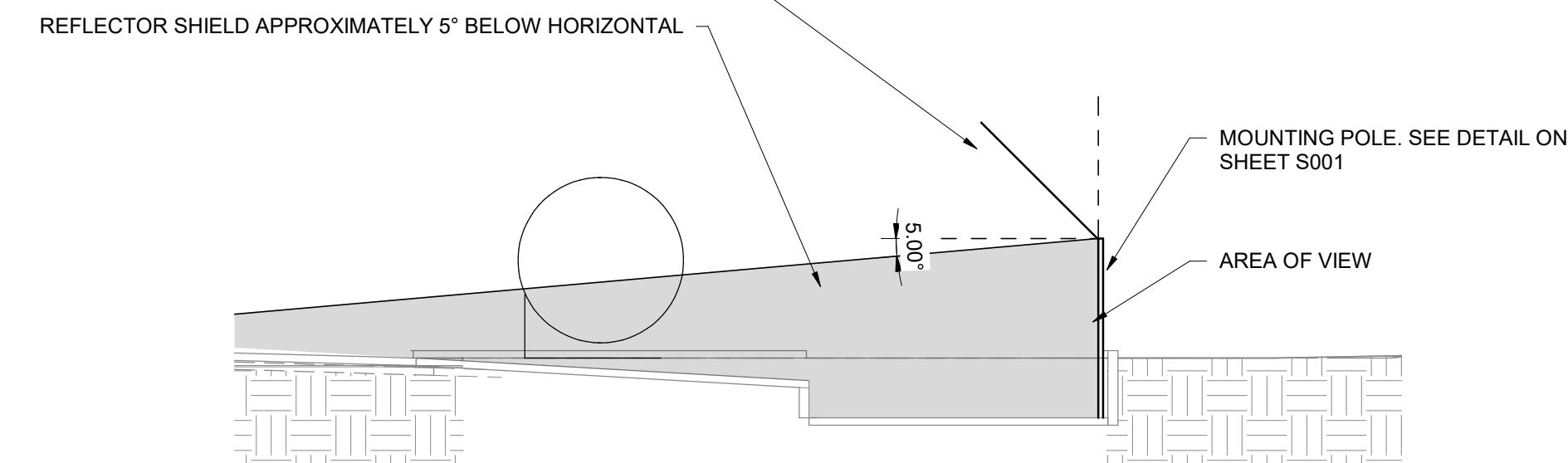
1 FIRE ALARM ENLARGED PLAN - LNG AREA
SCALE: 1/16" = 1'-0"



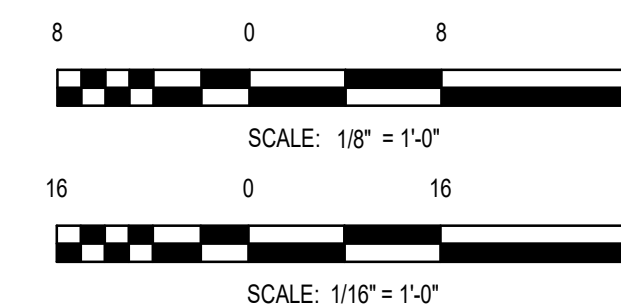
2 LNG AREA SECTION - DETECTOR 1
SCALE: 3/32" = 1'-0"



3 LNG AREA SECTION - DETECTOR 2
SCALE: 3/32" = 1'-0"



4 LNG AREA SECTION - DETECTOR 3
SCALE: 3/32" = 1'-0"



INTERIM SUBMITTAL - NOT FOR CONSTRUCTION

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RS&H		DESIGNED BY:		DATE:
115 ALMA BLVD, SUITE 101 MERRITT ISLAND, FL 32953 321-4455-0212 www.rsandh.com		AR	CKO BY:	10/9/2020
		AR	SD	
		SUBMITTED BY:		
		SD		
		FILE NAME:	DWG NUMBER:	
		22X34"	22X34"	
		SIZE D	SHEET:	PLOT DATE:

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FIRE AND LEAK DETECTION

**FIRE ALARM ENLARGED PLAN -
LNG**

PLATE
REFERENCE
NUMBER
FA403



INTERIM SUBMITTAL - NOT FOR CONSTRUCTION

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FIRE AND LEAK DETECTION

**FIRE ALARM ENLARGED PLAN -
HANGAR**

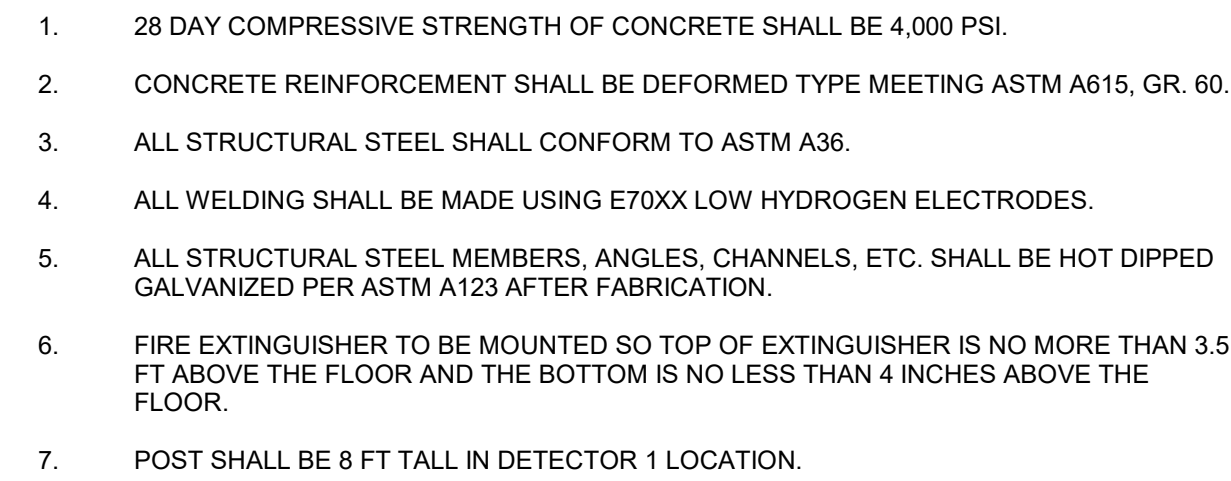
PLATE
REFERENCE
NUMBER

FA404

DESIGNED BY:		DATE:	
AR		10/8/2020	
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AR		SD	
SUBMITTED BY:			
SD			
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115 ALMA BLVD, SUITE 101		27.634	
MERRITT ISLAND, FL 32953			
321-453-0212 www.rsandc.com			
SIZE D	SHEET:	PLOT DATE:	

[illegible]

ANCHOR TYPE	BASIS OF DESIGN		ALTERNATIVES	
	MFR.	PRODUCT	MFR.	PRODUCT
SCREW ANCHOR	HILTI	KWIK HUS-EZ	DEWALT SIMPSON	SCREW-BOLT+ TITEN HD
ADHESIVE ANCHOR	HILTI	HIT-HY 200 ADHESIVE W/ THREADED ROD OR REBAR	DEWALT ITW RED HEAD	AC208+ C6+
EXPANSION ANCHOR	HILTI	KWIK BOLT TZ	SIMPSON DEWALT ITW RED HEAD	SET-XP POWER-STUD+ TRUBOLT+
			SIMPSON	STRONG-BOLT 2



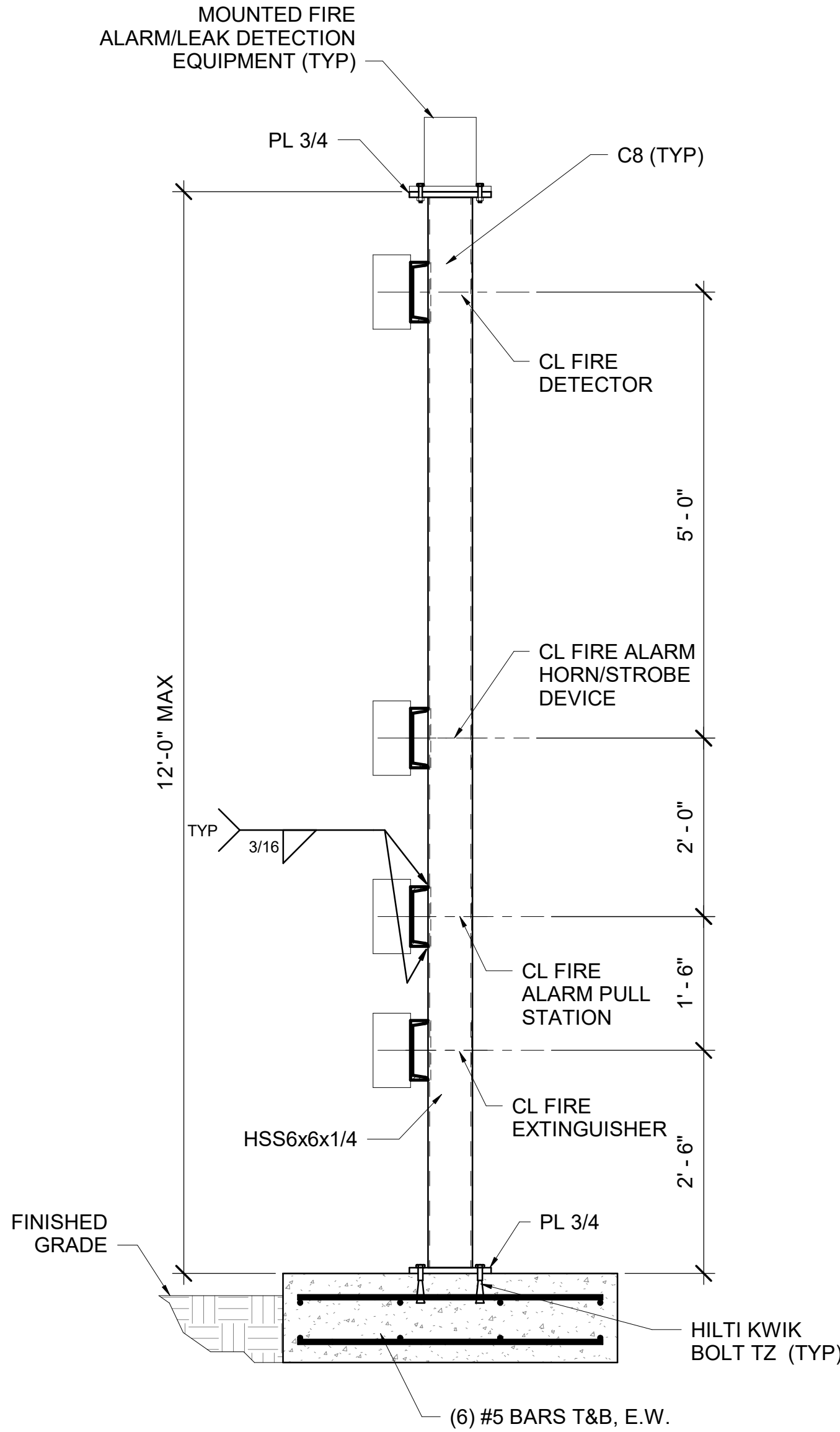
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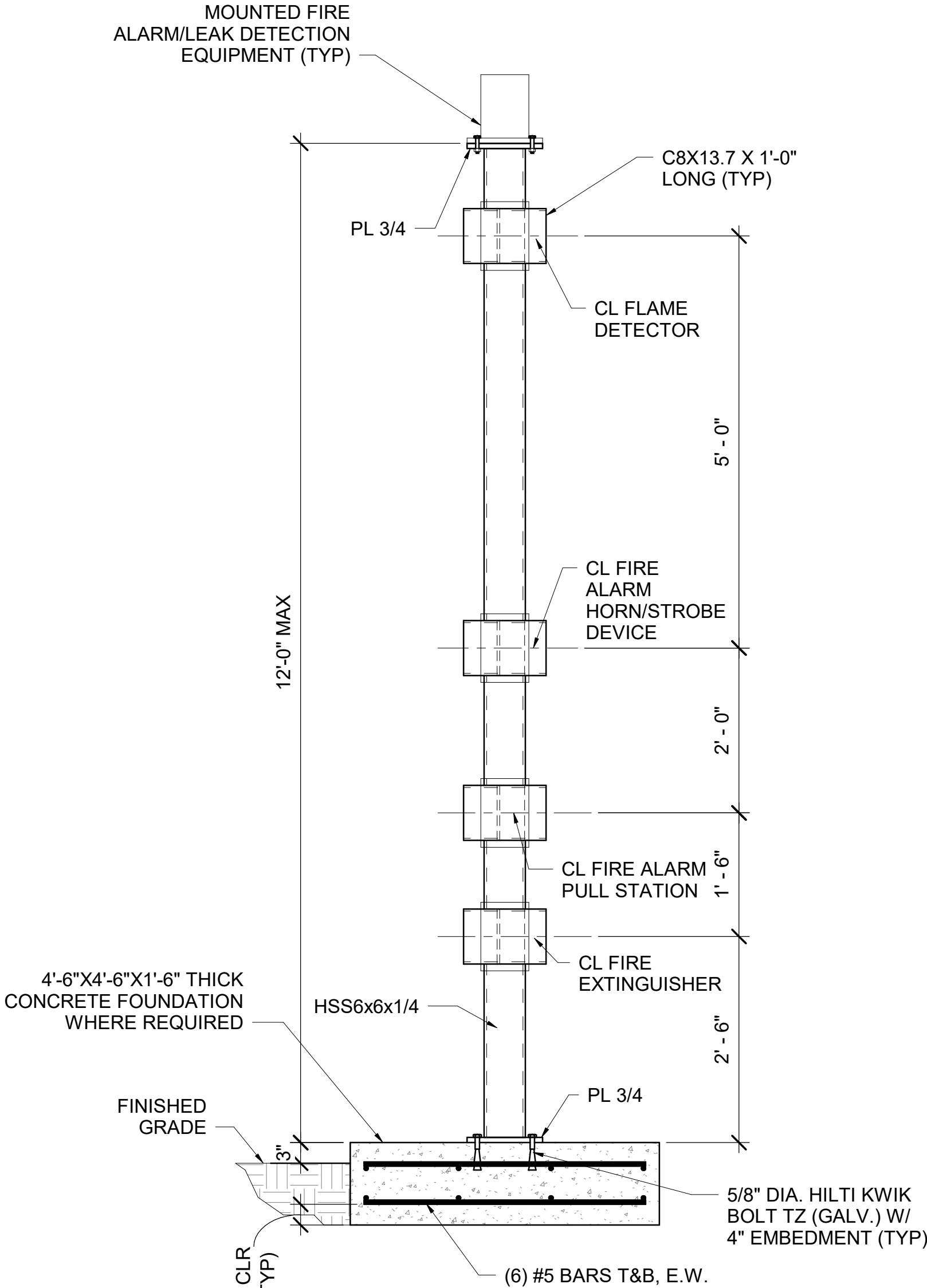
POST-INSTALLED ANCHOR NOTES:

1. ALL "BASIS OF DESIGN" POST-INSTALLED ANCHORS ARE INDICATED ON THE DRAWINGS. "BASIS OF DESIGN" ANCHORS MAY BE SUBSTITUTED FOR ALTERNATIVE ANCHORS INDICATED IN TABLE WITH WRITTEN APPROVAL BY E.O.R.
2. "BASIS OF DESIGN" ANCHOR PRODUCTS ARE SPECIFICALLY REQUIRED TO MEET THE STRUCTURAL CALCULATIONS OF THE E.O.R. SUBSTITUTION FOR ANCHORS SHOWN ON PLAN REQUIRE EVALUATION AND WRITTEN APPROVAL BY ENGINEER OF RECORD. PROVIDE APPROPRIATE ALTERNATIVE ANCHOR WITH EQUIVALENT SHEAR AND TENSION CAPACITIES AFTER MODIFICATION DUE TO EMBEDMENT, SPACING AND EDGE DISTANCES. LOAD CAPACITIES SHALL BE BASED ON TESTS IN ACCORDANCE WITH ACI 355.2 OR ASTM E488.
3. ANCHOR LOCATION, TYPE, DIAMETER, EMBEDMENT, AND EDGE DISTANCES SHALL BE AS INDICATED ON DRAWINGS. ANCHOR EMBEDMENT DEPTH IS THE DISTANCE FROM THE SURFACE OF THE BASE MATERIAL TO THE INSTALLED END OF THE ANCHOR, AND IS MEASURED PRIOR TO APPLICATION OF AN INSTALLATION TORQUE (IF APPLICABLE).
4. ANCHOR PRODUCTS SPECIFIED SHALL BE INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. POST-INSTALLED ANCHORS IN CONCRETE SHALL BE IN COMPLIANCE WITH IBC SECTION 1703.4 AND SHALL BE APPROVED BY ICC-ES FOR USE IN CRACKED AND UNCRACKED CONCRETE.
6. MECHANICAL ANCHORS SHALL NOT BE INSTALLED INTO CONCRETE THAT IS LESS THAN 7 DAYS OLD.
7. ANCHORS SHALL BE INSTALLED INTO A SUBSTRATE WITH A MINIMUM THICKNESS OF 1.5 TIMES THE ANCHOR EMBEDMENT DEPTH.

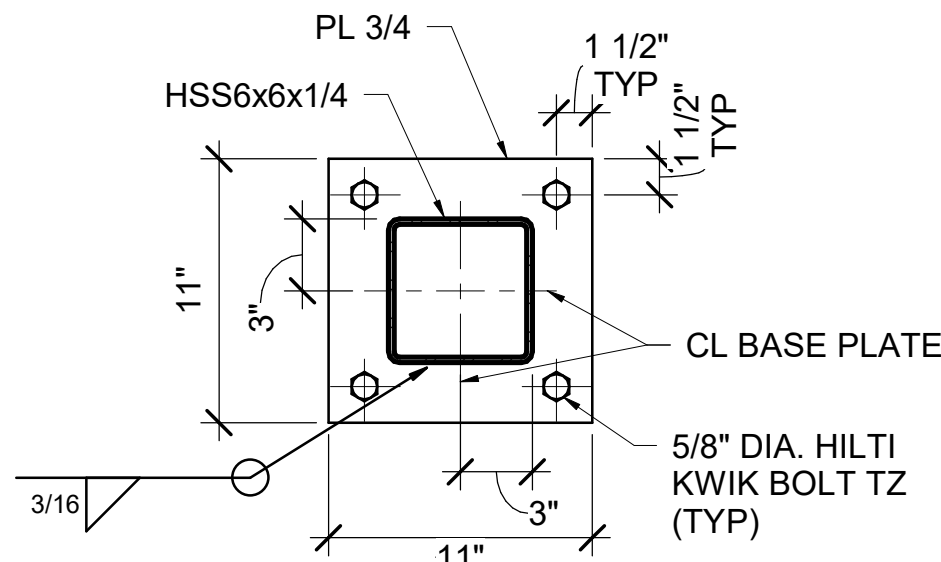
ANCHOR TYPE	BASIS OF DESIGN		ALTERNATIVES	
	MFR.	PRODUCT	MFR.	PRODUCT
SCREW ANCHOR	HILTI	KWIK HUS-EZ	DEWALT SIMPSON	SCREW-BOLT+ TITEN HD
ADHESIVE ANCHOR	HILTI	HIT-HY 200 ADHESIVE W/ THREADED ROD OR REBAR	DEWALT ITW RED HEAD	AC208+ C6+
EXPANSION ANCHOR	HILTI	KWIK BOLT TZ	SIMPSON DEWALT ITW RED HEAD SIMPSON	SET-XP POWER-STUD+ TRUBOLT+ STRONG-BOLT 2



5 S-002 TYPICAL SUPT DET - SIDE
SCALE: N.T.S.



4 S-002 TYPICAL SUPT DET - FRONT
SCALE: N.T.S.



6 S-002 SUPT SECT
SCALE: N.T.S.

NOTES:

1. 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 4,000 PSI.
2. CONCRETE REINFORCEMENT SHALL BE DEFORMED TYPE MEETING ASTM A615, GR. 60.
3. ALL STRUCTURAL STEEL ANGLES AND CHANNELS SHALL CONFORM TO ASTM A36.
4. ALL STRUCTURAL STEEL TUBES SHALL CONFORM TO ASTM A1085.
5. ALL WELDING SHALL BE MADE USING E70XX LOW HYDROGEN ELECTRODES.
6. ALL STRUCTURAL STEEL MEMBERS, ANGLES, CHANNELS, ETC. SHALL BE HOT DIPPED GALVANIZED PER ASTM A123 AFTER FABRICATION.
7. FIRE EXTINGUISHER TO BE MOUNTED SO TOP OF EXTINGUISHER IS NO MORE THAN 3.5 FT ABOVE THE FLOOR AND THE BOTTOM IS NO LESS THAN 4 INCHES ABOVE THE FLOOR.
8. POST SHALL BE 12 FT TALL IN DETECTOR 3 LOCATION.

FINAL SUBMITTAL - ISSUED FOR CONSTRUCTION

Relativity 8701 Aviation Blvd,
Inglewood, CA 90301

FIRE AND LEAK DETECTION

**GENERAL STRUCTURAL NOTES
AND DETAILS - 2**

PLATE
REFERENCE
NUMBER
S002

RS&H

115 ALMA BLVD, SUITE 101
MERCER ISLAND, FL 32853
321-453-0272 www.rsandh.com

DESIGNED BY: DATE: 04/12/2021
DRAWN BY: CDD BY: CDD
SUBMITTED BY: CDD
FILE NAME: 22-334
SHEET: 22 OF 22

HAZARDOUS PLAN UPDATES

REV A
SYMBOL

DATE: 02/25/2021
BY: MAS