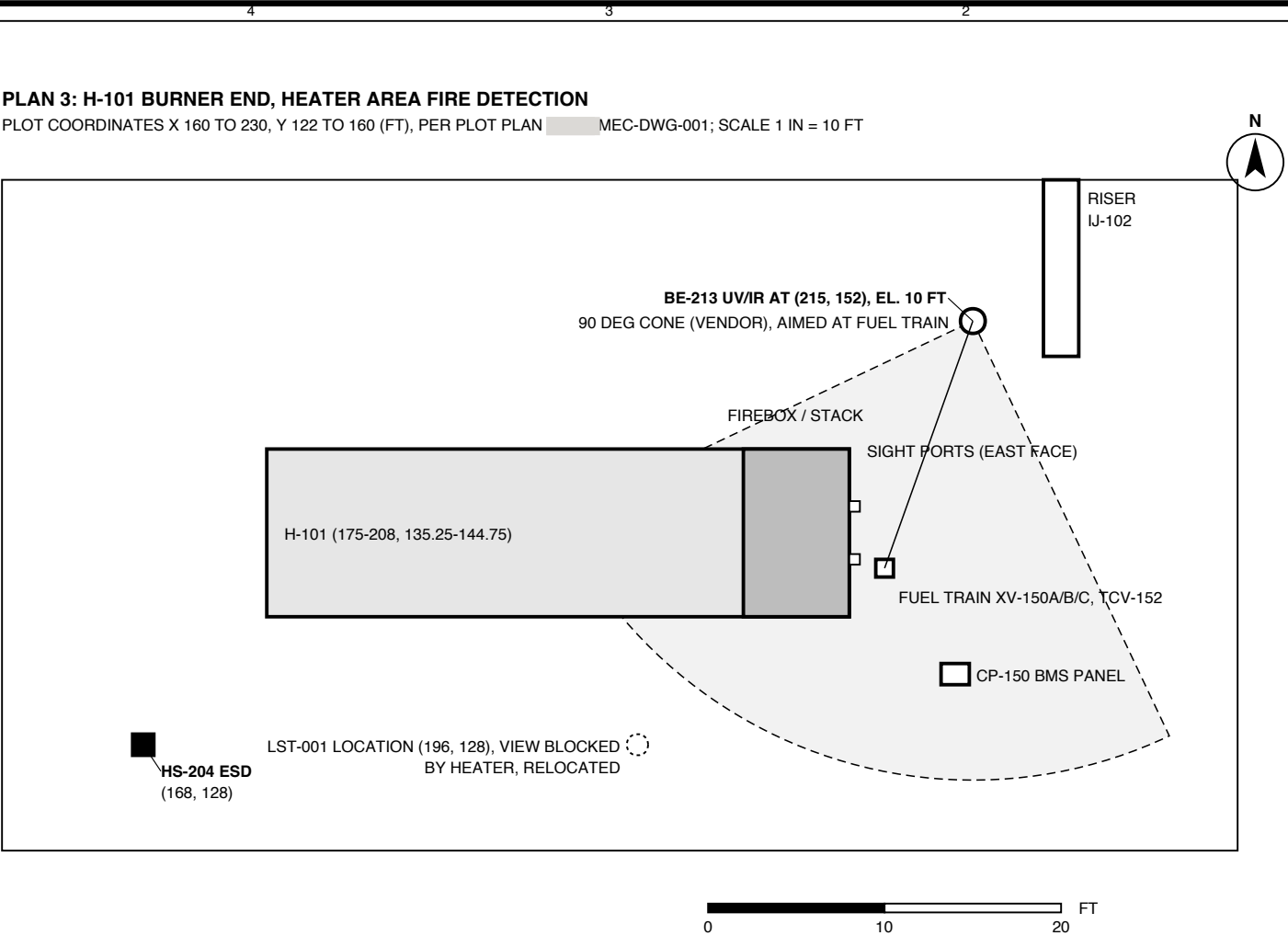
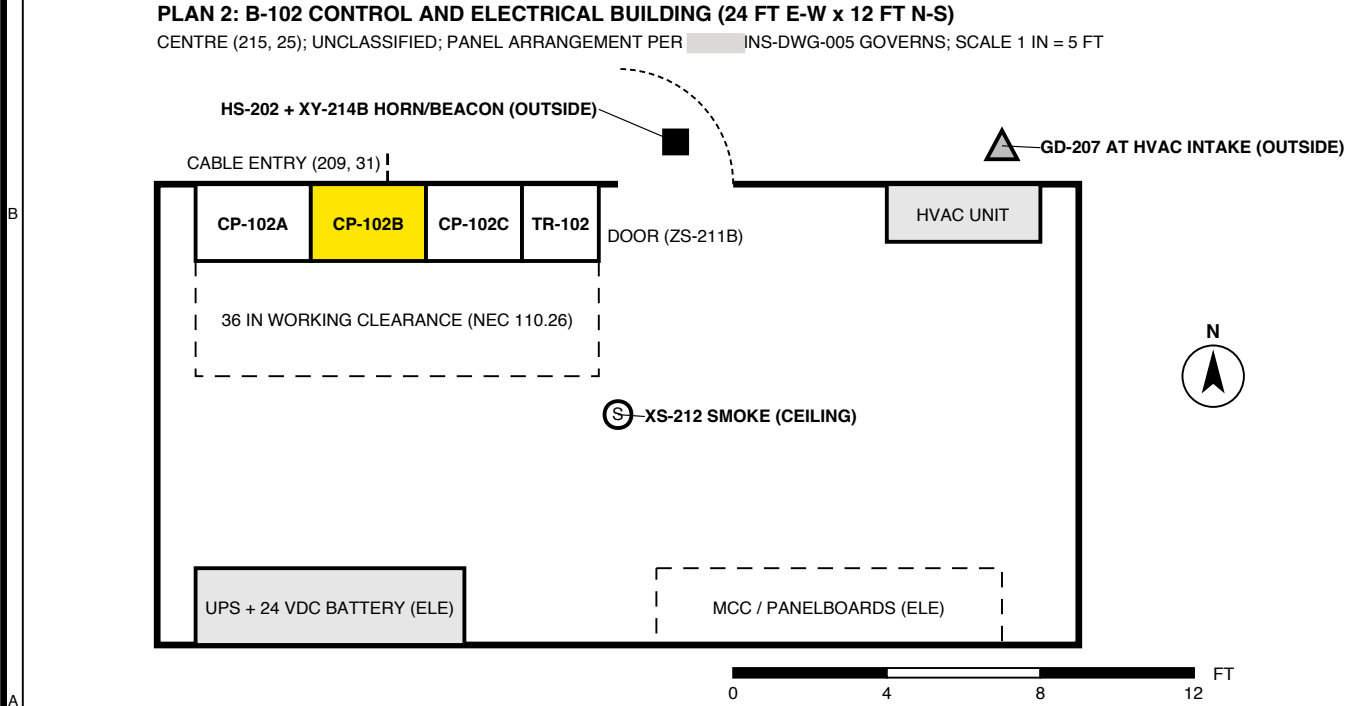
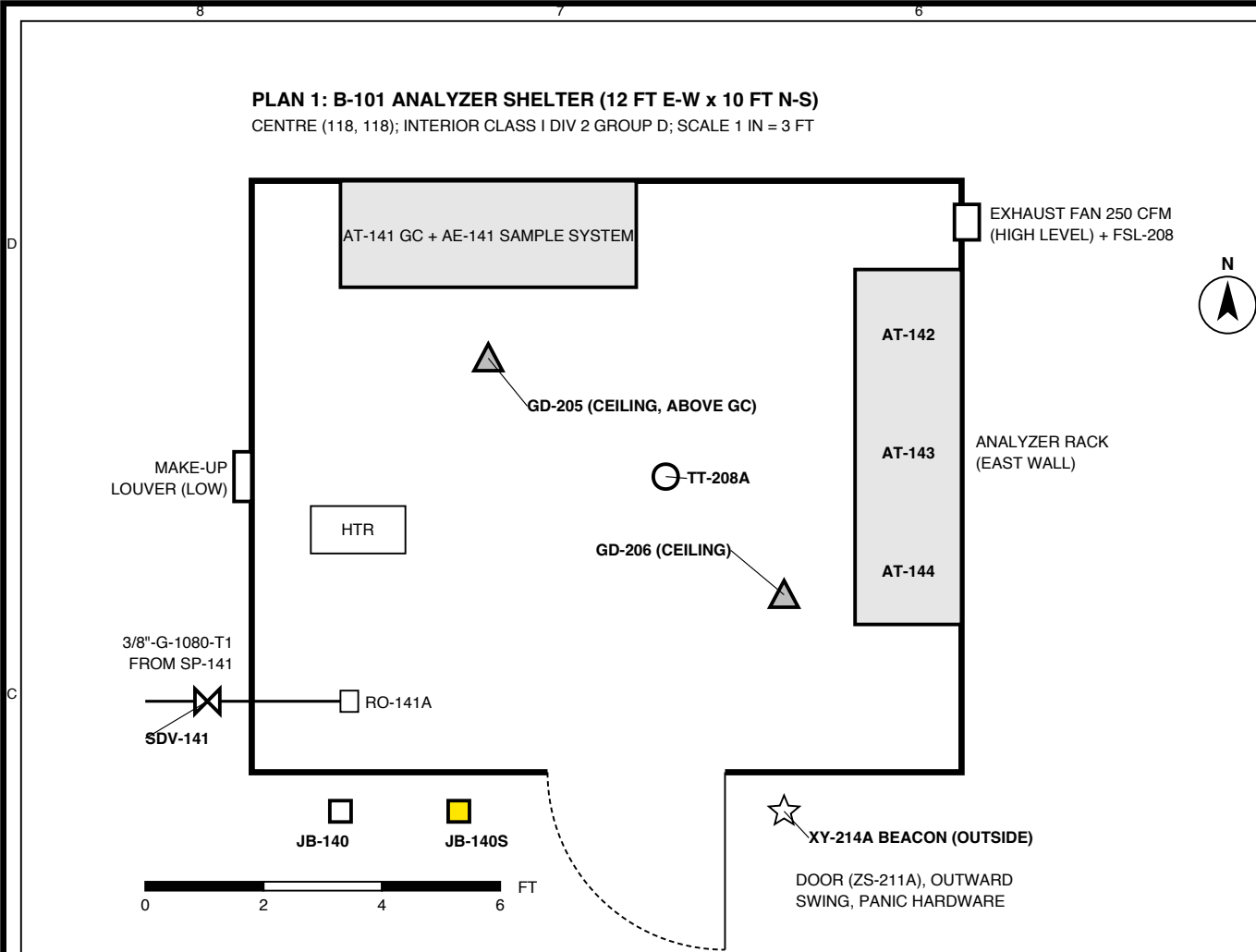




F&G ACTION SUMMARY (SAFETY PLC CP-102B)

CAUSE	SETPOINT / VOTE	ACTION
GD-205 OR GD-206 HIGH	20 % LEL, 1oo2	ALARM P2, XY-214A BEACON
GD-205 OR GD-206 HIGH-HIGH	40 % LEL, 1oo2	CLOSE SDV-141, XY-214D B-101 POWER OFF
B-101 CONFIRMED GAS	40 % + OTHER >= 20 %	ABOVE + STATION ESD, XY-214B
GD-207 HIGH	20 % LEL	XY-214C HVAC OFF, DAMPER CLOSED
GD-207 HIGH-HIGH	40 % LEL	STATION ESD, XY-214B
XS-212 SMOKE	1oo1	ALARM P1, XY-214C HVAC OFF
BE-213 FIRE	1oo1, 3 S CONFIRM	STATION ESD, XY-214B
FSL-208 AIRFLOW LOW	30 S	ALARM P2; XY-214D AFTER 5 MIN
DETECTOR FAULT	< 3.0 MA	ALARM P2, NO TRIP

LEGEND

	POINT IR COMBUSTIBLE GAS DETECTOR	YELLOW = SIS EQUIPMENT DASHED = BY OTHERS / NOT IN SCOPE
	DETECTOR / TRANSMITTER (SMOKE, FLAME, TEMP)	
	ESD PUSHBUTTON	
	BEACON / HORN	
	SHUTDOWN VALVE	

NOTES / REFERENCES

- NATURAL GAS IS LIGHTER THAN AIR: SHELTER DETECTORS AT CEILING (MAX 12 IN BELOW), ABOVE LEAK SOURCES.
 - SETPOINTS 20 / 40 % LEL (METHANE CAL.). ACTIONS PER LST-004; STATION ESD = P&ID INTERLOCK I-01.
 - B-101 VENTILATION >= 192 CFM (12 ACH, 8 FT INTERIOR ASSUMED); FAN 250 CFM (SAF-RPT-003).
 - BE-213 MOUNTED 10 FT ABOVE GRADE, AIMED DOWN AT FUEL TRAIN; SIGHT PORTS > 45 DEG OFF DETECTOR AXIS.
 - H-101 PER PLOT PLAN MEC-DWG-001. SDV-141 CLOSES ON STATION ESD.
 - LOCATIONS PRELIMINARY; FINAL BY VENDOR SHELTER / BUILDING DRAWINGS (HOLD H-15).
- REF: SAF-RPT-003, INS-DWG-003

REVISIONS

REV	DATE	DESCRIPTION	BY	CHK	APP
A	2026-09-29	ISSUED FOR REVIEW (IFR)			

PRELIMINARY - ISSUED FOR REVIEW - NOT FOR CONSTRUCTION

ENGINEER OF RECORD SEAL

NOT SEALED
PRELIMINARY

PE NO. _____

PROJECT

120 MMSCFD RECEIPT INTO _____
COUNTY, _____
DISCIPLINE: PROCESS SAFETY
SCALE: AS SHOWN

FIRE AND GAS DETECTOR LAYOUT

B-101, B-102 AND H-101 BURNER END
DRAWN: ____ CHECKED: ____ APPROVED: ____
DWG NO. SAF-DWG-001
SHEET 1 OF 1 REV A