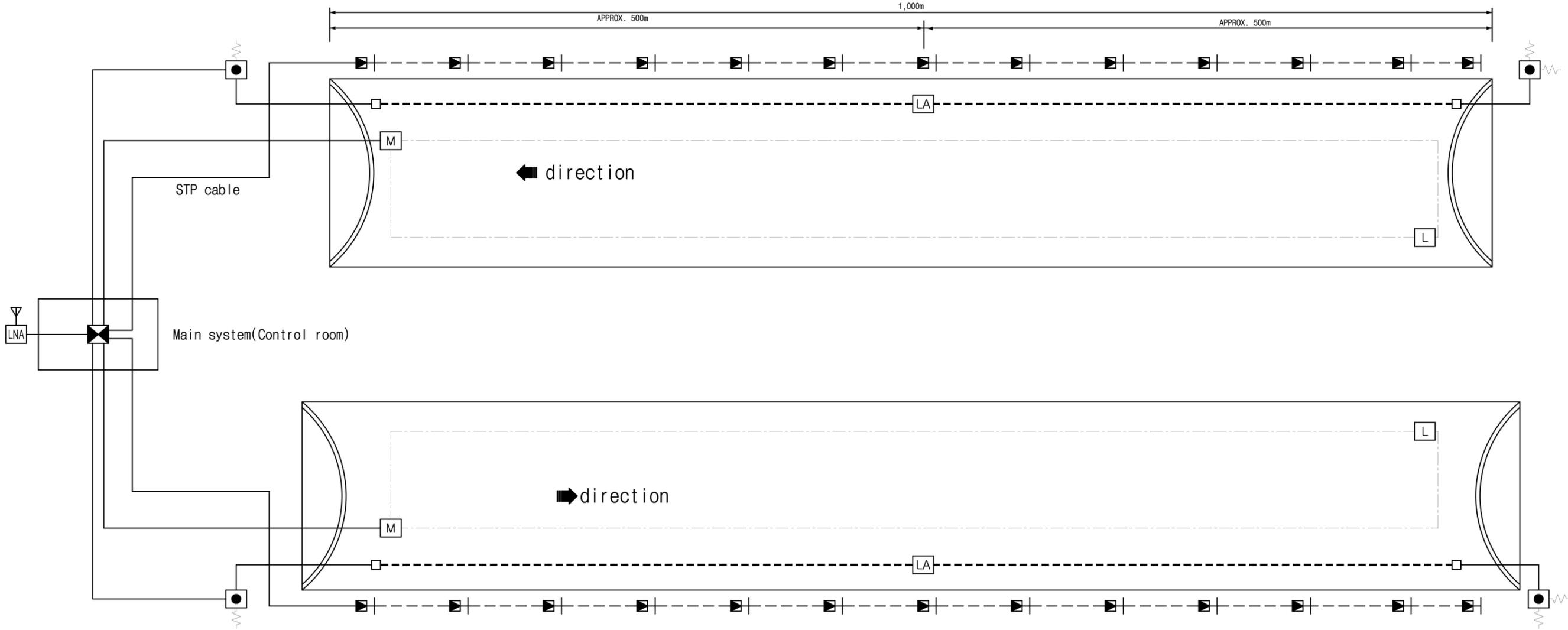


## Drawing list table

Tunnel	Drawing number	Drawing name	Scale	
00 Tunnel	E - 000	Drawing list table	NONE	
	E - 001	Tunnel radio rebroadcast system floor plan	NONE	
	E - 002	Tunnel radio rebroadcast system diagram	NONE	
	E - 003	Tunnel Radio Rebroadcast Main System Detail	NONE	
	E - 004	Tunnel radio rebroadcast device installation detail(1)	NONE	
	E - 005	Tunnel radio rebroadcast device installation detail(2)	NONE	

Task name	Client	Drafter	Checker	Reviewer	Writer	Date	Scale	Drawing name	Drawing number
Tunnel radio rebroadcast system ( WRF-202 )		System WRF-202(WorldRF Co.,Ltd)				2022. .	NONE	Drawing list table	E-00

# Tunnel radio rebroadcast system floor plan



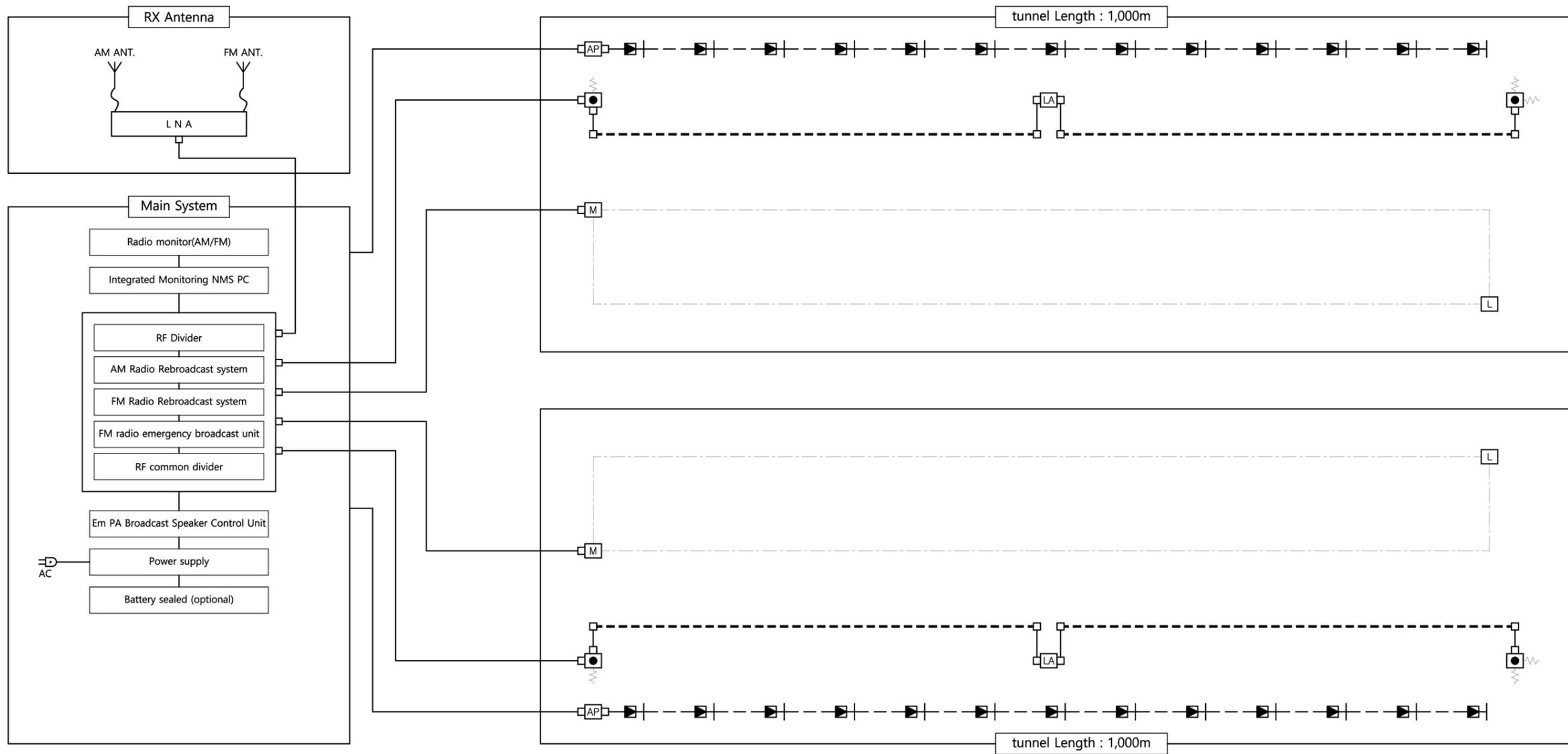
**Legend**

SYMBOL	DESCRIPTION	REMARK	SYMBOL	DESCRIPTION	REMARK
	AM/FM ANT			Emergency PA broadcast speaker	
	LNA (Low Noise Amplifier)			AM Impedance Matching(50:800)	
	Main equipment			AM Dummy Load(800Ω)	
	FM Line Amp			FM Dummy Load(50Ω)	
	Fire radio access terminal box			Connector	

- NOTE**
- the wiring is as follows.
    - Leakage coaxial cable (7/8"~)
    - AM radiation cable(45Q)
    - RF coaxial cable (1/2") (PE-36C)
    - Em PA SPK control cable (STP Cat.6)
  - The installation fixed interval of leaky coaxial cable is 1.5m.
  - The installation fixed interval of AM radiation cable is 3.0m.
  - The installation interval of emergency PA speakers in the tunnel is 50m, and they are connected with STP cables.
  - The FM Line amp and emergency PA broadcasting speaker power in the tunnel are branched from the common power source.
  - The installation location of the receiving antenna is determined after on-site inspection.
  - Exclude pipes in the section within the tunnel if not specified in the drawing or consult with the supervisor.
  - Piping and wiring of equipment in the tunnel is a local pre-process.
  - All construction works are carried out in consultation with the supervisor after understanding the site in detail in advance.

Task name	Client	Drafter	Checker	Reviewer	Writer	Date	Scale	Drawing name	Drawing number
Tunnel radio rebroadcast system (WRF-202)		System WRF-202(WorldRF Co.,Ltd)				2022.	NONE	Tunnel radio rebroadcast system floor plan	E-01

# Tunnel radio rebroadcast system diagram



### Legend

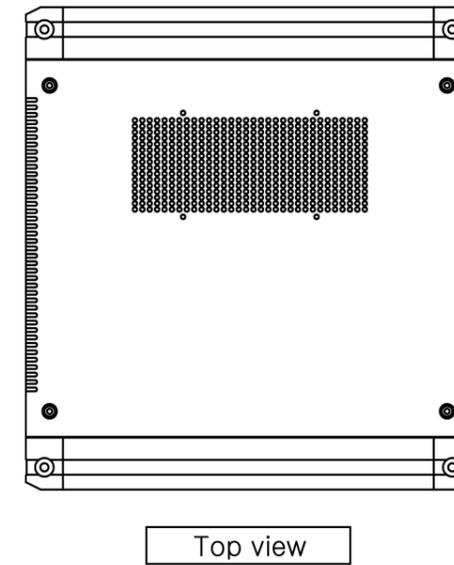
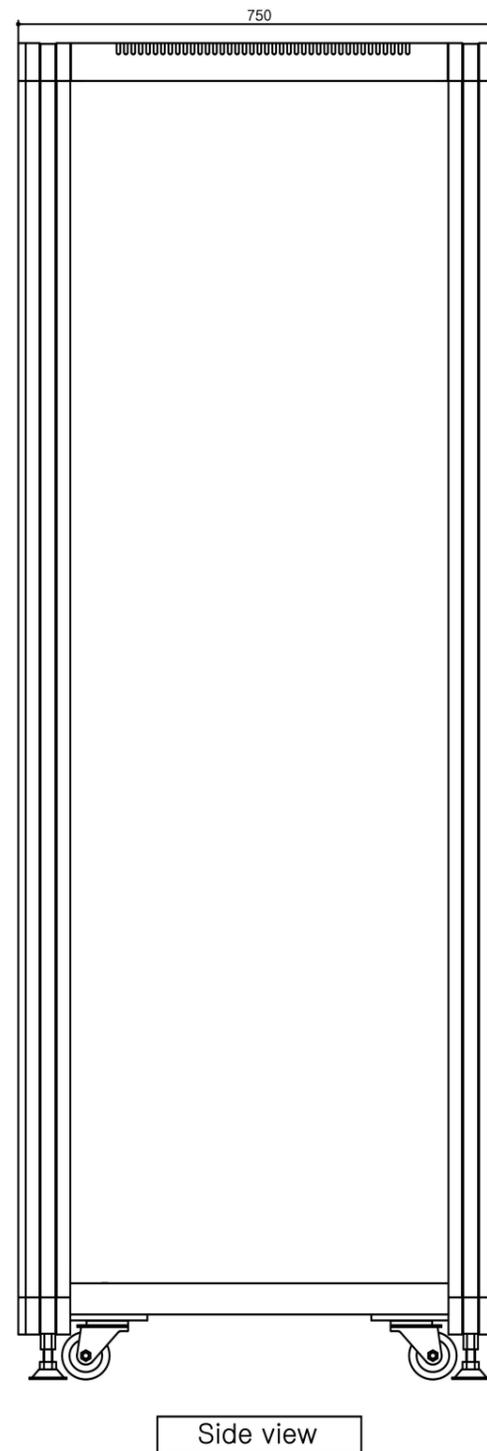
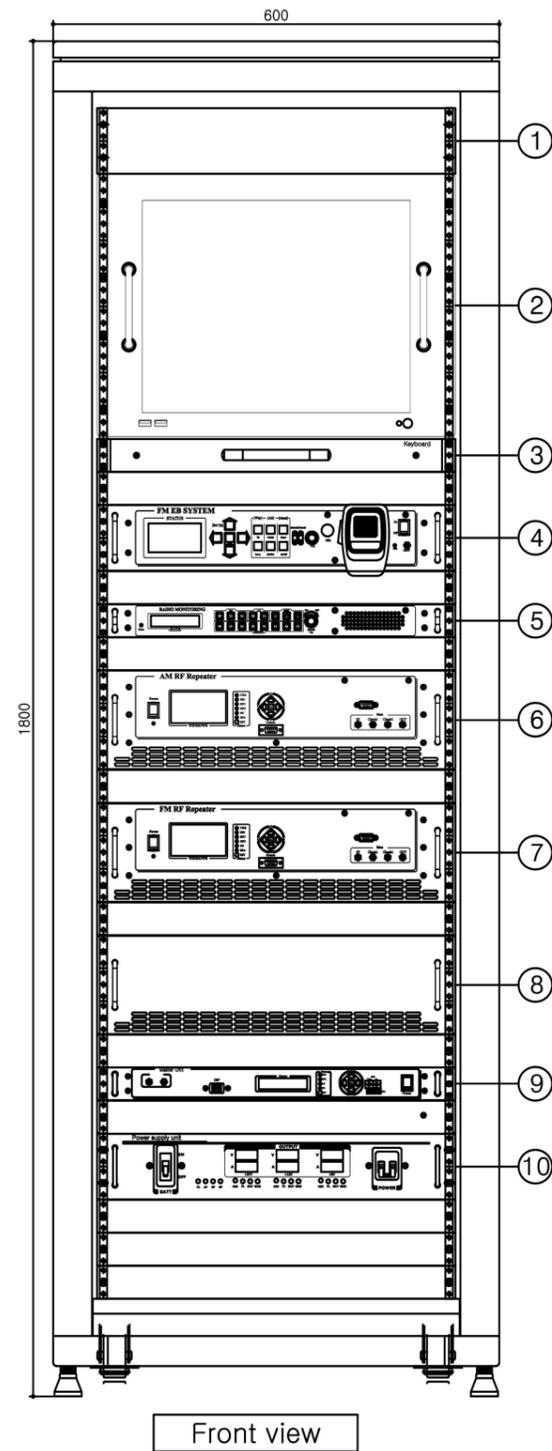
SYMBOL	DESCRIPTION	REMARK	SYMBOL	DESCRIPTION	REMARK
	AM/FM ANT			Emergency PA broadcast speaker	
	LNA (Low Noise Amplifier)			AM Impedance Matching(50:800)	
	Main equipment			AM Dummy Load(800Ω)	
	FM Line Amp			FM Dummy Load(50Ω)	
	Fire radio access terminal box			Connector	

### NOTE

- the wiring is as follows.
  - Leakage coaxial cable (7/8"~)
  - AM radiation cable(4SQ)
  - RF coaxial cable (1/2") (PE-36C)
  - Em PA SPK control cable (STP Cat.6)
- The installation fixed interval of leaky coaxial cable is 1.5m.
- The installation fixed interval of AM radiation cable is 3.0m.
- The installation interval of emergency PA speakers in the tunnel is 50m, and they are connected with STP cables.
- The FM Line amp and emergency PA broadcasting speaker power in the tunnel are branched from the common power source.
- The installation location of the receiving antenna is determined after on-site inspection.
- Exclude pipes in the section within the tunnel if not specified in the drawing or consult with the supervisor.
- Piping and wiring of equipment in the tunnel is a local pre-process.
- All construction works are carried out in consultation with the supervisor after understanding the site in detail in advance.

Task name	Client	Drafter	Checker	Reviewer	Writer	Date	Scale	Drawing name	Drawing number
Tunnel radio rebroadcast system (WRF-202)		System WRF-202(WorldRF Co.,Ltd)				2022.	NONE	Tunnel radio rebroadcast system diagram	E-02

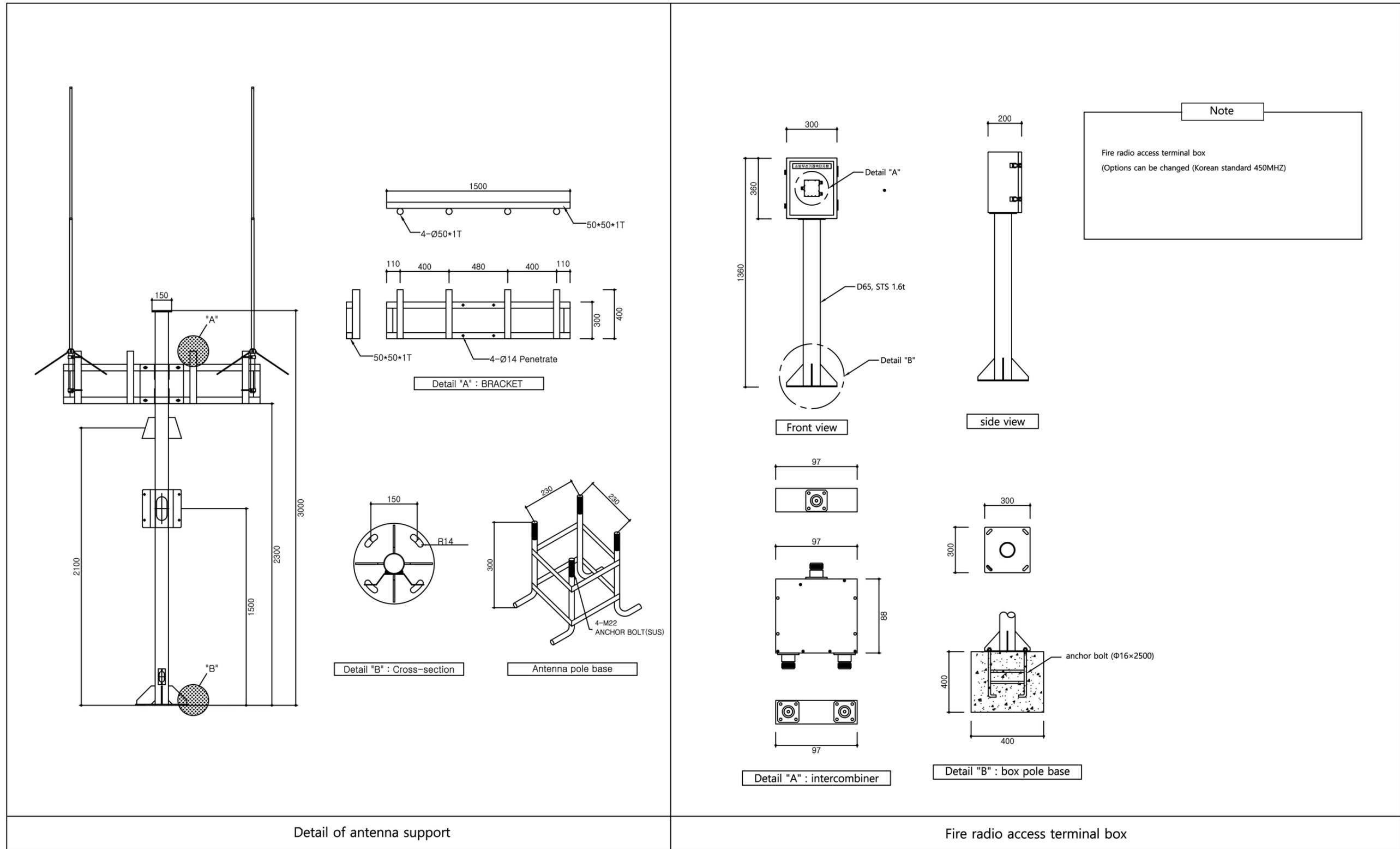
# Tunnel Radio Rebroadcast Main System Detail



NO	Discription	Remark
①	Blank panel	
②	Integrated Monitoring NMS PC	
③	Keyboard	
④	FM emergency broadcast unit	
⑤	AM/FM radio monitor unit	
⑥	AM Radio Rebroadcast system	
⑦	FM Radio Rebroadcast system	
⑧	RF Divider/RF common divider	
⑨	Emergency PA Broadcasting Speaker Control Unit	
⑩	Power supply	

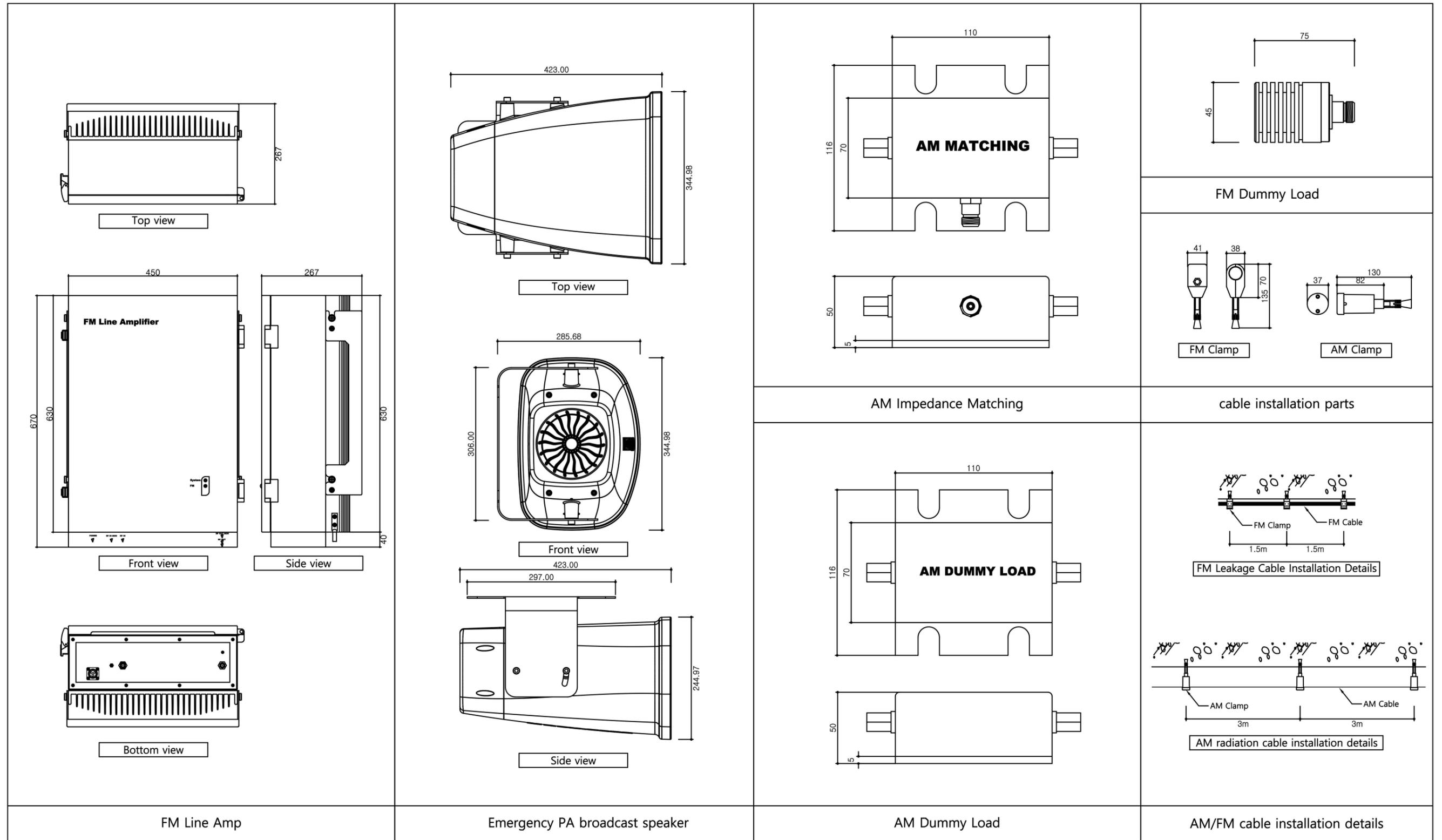
Task name	Client	Drafter	Checker	Reviewer	Writer	Date	Scale	Drawing name	Drawing number
Tunnel radio rebroadcast system (WRF-202)		System WRF-202(WorldRF Co.,Ltd)				2022. .	NONE	Tunnel Radio Rebroadcast Main System Detail	E-03

# Tunnel radio rebroadcast device installation detail(1)



Task name	Client	Drafter	Checker	Reviewer	Writer	Date	Scale	Drawing name	Drawing number
Tunnel radio rebroadcast system (WRF-202)		System WRF-202(WorldRF Co.,Ltd)				2022.	NONE	Tunnel radio rebroadcast device installation detail(1)	E-04

## Tunnel radio rebroadcast device installation detail(2)



Task name	Client	Drafter	Checker	Reviewer	Writer	Date	Scale	Drawing name	Drawing number
Tunnel radio rebroadcast system (WRF-202)		System WRF-202(WorldRF Co.,Ltd)				2022.	NONE	Tunnel radio rebroadcast device installation detail(2)	E-05