

- Install new 100' tower next to existing tower base as highlighted in blue.
- Install a wave guide bridge as required to transition cables from new tower to the existing wave guide bridge
- Tower needs to be designed to hold:
  - 5xUVU-200 antennas
  - 1xTACO D2218 antenna (UHF/VHF/VHF)
  - 1xTACO D2213 (1xUHF / 1xVHF)
  - 1xSADL antenna
  - 1xLINK-16 (MIDS-JTRS) antenna
  - 1xADSB antenna
  - 1xDPV108v RRU antenna
  - 3xL1G1A-STD GPS antennas for the RRU, ADSB and for the SADL radio/Comm radio time reference.



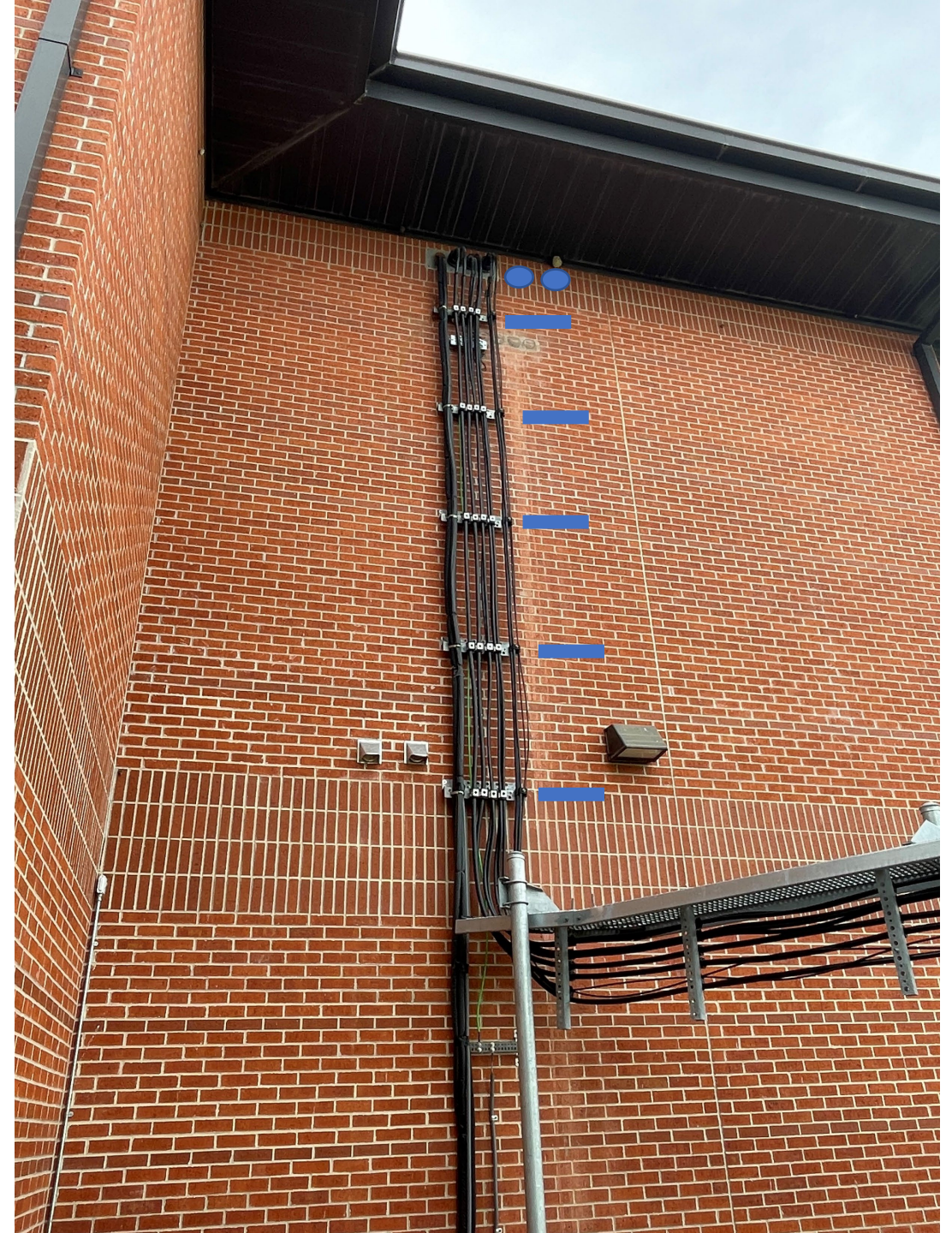


- Install new tower next to existing tower base as highlighted in blue
- Install a wave guide bridge as required to transition cables from new tower to the existing wave guide bridge





- Need to install cable brackets next to existing brackets to allow for up to 8 additional radio cables (as highlighted)
- Need to install 2 more wall penetrations to allow for up to 8 cables to penetrate the building (as highlighted)
- Need to install an additional grounding bar on the inside of the building (in the ceiling of the gym) to ground up to 8 additional cables
- Current requirement is for 4 additional cables but planning for 8 cables provides room for growth
- Remove existing tower once new tower is installed and BSE has moved the antennas and cables from the existing tower



- Must get FAA approval to use a crane and to build a permanent tower
  - Step 1 is to go to [Obstruction Evaluation / Airport Airspace Analysis \(OE/AAA\) \(faa.gov\)](https://www.faa.gov/obstruction-evaluation-airport-airspace-analysis) and get a login
  - Step 2 is to fill out a 7460-1 application on that website for the crane to construct the tower and one for the permanent tower. The coordinates for the tower must be NAG 83 format which are N 29 23 3.982, W 98 35 49.972 and 669 feet. This process takes about 4-6 weeks to get approval for each request and will let you know if obstruction lighting is required for the tower. You can contact the FAA at the below numbers (Andrew Hollie was my POC for the last tower we did):

Air Traffic Contacts for Texas - Central			
Position	Name	Email	Telephone
Technician	Cardenas, Debbie	<a href="mailto:debbie.cardenas@faa.gov">debbie.cardenas@faa.gov</a>	(817) 222-5922
Specialist	Hollie, Andrew	<a href="mailto:andrew.hollie@faa.gov">andrew.hollie@faa.gov</a>	(817) 222-5933
Crane Specialist	Hollie, Andrew	<a href="mailto:andrew.hollie@faa.gov">andrew.hollie@faa.gov</a>	(817) 222-5933
Air Traffic Wind Turbine Contacts for Texas - Central			
Position	Name	Email	Telephone
Technician	Rosgen, Tracy	<a href="mailto:tracy.rosgen@faa.gov">tracy.rosgen@faa.gov</a>	(424) 405-7644
Specialist	Kieffer, Bill	<a href="mailto:bill.kieffer@faa.gov">bill.kieffer@faa.gov</a>	(816) 329-2526
Backup Technician	Rosgen, Tracy	<a href="mailto:tracy.rosgen@faa.gov">tracy.rosgen@faa.gov</a>	(424) 405-7644