

機場捷運延伸至中壢火車站建設計畫－CU04 施工標

TIAA MRT Extension to TRA Zhongli Station Project – CU04 Construction Tender Introduction



● 機場捷運中壢車站（A23）預定地

「臺灣桃園國際機場聯外捷運系統延伸至中壢火車站建設及周邊土地發展計畫」內 CU04 施工標，工程範圍起於中壢市中豐北路與環北路之機場捷運環北站（A21）（不含）南側，路線沿中豐路並採地下南行，至中央西路與中豐路口永興公園附近設置老街溪站（A22）後，續直行至中山路附近東轉穿越民宅下方至中正路，後沿中正路至目前臺鐵中壢火車站位置下方，設置與未來臺鐵中壢高架火車站共站之中壢車站（A23），並於中正路上設置一橫渡線及緊鄰 A23 站末端設置未來銜接桃園捷運藍線路網之潛盾隧道工作井，全長約 2.06 公里。

本標主要工程內容概述如下：

- （一）A22 車站：地下 3 層之島式月台車站，共配置 2 股道；地下一層為穿堂層，地下二層為設備層，地下三層為月台層，設置長度 80 公尺之島式月台公共區。
- （二）A23 車站：地下 2 層之島式月台車站，共配置 2 股道；地下一層為穿堂層，另於穿堂層外側規劃設置可敲除式牆板，預留未來與臺鐵車站及開發大樓之銜接與連通，地下二層為月台層。
- （三）A22 至 A23 車站間之明挖覆蓋隧道（橫渡線）：全長約 144.8 公尺，為地下一層之隧道結構，開挖深度約 18 公尺，隧道寬約 16 公尺，淨高約 9 公尺。
- （四）潛盾鑽掘隧道
 1. A21 站～A22 站間潛盾隧道：含聯絡道在內計有一段潛盾隧道，上、下行軌長度均約 792.7 公尺。
 2. A22 站～橫渡線：含聯絡道在內計有一段潛盾隧道，上行軌長度約 681.7 公尺，下行軌長度約 694.5 公尺，部分隧道並穿越既有民宅下方。
 3. 橫渡線～A23 站間潛盾隧道：潛盾隧道上行軌長度約 134.4 公尺，下行軌長度約 126.2 公尺。

CU04 施工標為 CM01 區段標之子標，CM01 區段標已於 102 年 8 月 29 日辦理第 5 次招標上網公告，預定 10 月 8 日開標。🌍

The construction scope of the CU04 tender of the "TIAA MRT extension to Zhongli Station and the Surrounding Land Development Project" starts from the cross section of Zhongli City's Zhongfeng North Road and the south side of the TIAA MRT Huanbei Station (A21) (not including) at the entrance to Huanbei Road. Project activities extend from moving southbound, underground, along Zhongfeng Road to constructing Laojie River Station (A22) at the cross section of Zhongyang West Road and Zhongfeng Road near Yunghsin Park, and continuing toward Zhongshan Road turning east to go below some houses reaching ZhongZheng Road. Construction work will continue to move along ZhongZheng Road to eventually reaching the lower part of the location of the TRA Zhongli Train Station where Zhongli Railway Station (A23) will be co-constructed with the TRA Zhongli elevated train station. A crossover is deployed on ZhongZheng Road and, right next to the end of A23 station, a shield tunnel work well is installed for future connectivity with the Taoyuan MRT blue line road network. The total project length is about 2.06 km.

The main tasks for this project are described below:

- a. A22 station: A three-story underground island platform station configured with 2 tracks; the 1st underground floor is the concourse level, the 2nd underground floor is the equipment level, and the 3rd underground floor is the platform level. The length of the public areas of the island platform is 80 meters.
- b. A23 Station: A two-story underground island platform station configured with two tracks. The 1st underground floor is the concourse level. Removable wall panels are installed outside of the concourse level to be connected in the future with the TRA station and development building. The 2nd underground floor is the platform level.
- c. The cut and cover tunnel between A22 and A23 stations (crossover): The total length of this 1st underground floor tunnel structure is 144.8 meters, with excavation depth of about 18 meters, a tunnel width of 16 meters, and a clear height of about 9 meters.
- d. Shield Excavation Tunnel
 1. Inter A21~A22 station shield tunnel: Including the access road, and a section of shield tunnel, with up and down track length of approximately 792.7 meters.
 2. A22 station to crossover: Including the access road, and a section of shield tunnel. The length of the up-track is approximately 681.7 meters, and the down track length is about 694.5 meters, with part of the tunnel passing under private houses.
 3. Shield tunnel between crossover and A23 station: The length of the up track of the shield tunnel is about 134.4 meters and the length of the down track is about 126.2 meters.

The construction tender CU04 is a sub-tender of the CM01 Section tender. CM01 completed its 5th bidding announcement on August 29th, 2013. The bid opening is scheduled to be on October 8th, 2013. 🌍