

EARLY SITE ACCESS PROJECT - SUMMARY OF WORK

Project # **20AG-01** – GENERAL TRADES

Project Description: **Early Site Access Bid Package**

This Project includes Sitework and Building Construction work required to create construction access, parking, staging and laydown areas required to accommodate the construction of Pittsburgh International Airport's new Multi-Modal Complex (MMC) and the new Terminal Addition, work which is part of the airport's Terminal Modernization Program (TMP). Once this project is complete, much of the existing airport which is currently in the Airport Operations (secured) Area (AOA), will become non-secured, making access to and construction of the new MMC & Terminal buildings less restrictive.

This documents for this project are divided into two (2) groups:

- Sitework Documents (prepared by HDR)
- Building Work Documents (prepared by Gensler)

Contract (20AG01) – GENERAL TRADES
Approximate Construction Value (\$16,000,000)

While this is not in any way an all-inclusive listing, the scope of this project includes:

Sitework:

- Improvements and additions to Clinton Road to connect it to existing Taxiway B.
- Improvements and additions to the Montour Trail bicycle path.
- Modifications to Taxiway B and C to temporarily convert them to a dedicated "Construction Access Only" route for workers and delivery vehicles to have direct (and non-public) access to the Terminal and MMC sites for the length of the program.
- Airfield Pavement Marking Work.
- Modifications to create new airport parking areas within existing public parking areas.
- Installation of temporary fencing and gates, precast concrete barriers, and other devices to segregate areas of the project and from the public.
- Construction of a new Northwest Security Checkpoint, and the associated new North Access Road and new Security Checkpoint Road.
- Installation of site signage, within the site, and on I-376 to identify the project and to identify the exit that will be used for the Construction Access Only to the project.
- Creation of secured routes within the site for (luggage carting) Tugs, and for the Baggage System and APM (Automated People Mover) breakdown plan vehicles.
- Installation of (including rerouting) of new Potable and Fire Water piping.
- Drainage system additions and modifications.
- Modifications to the airport's Hydrant Fueling system.
- Other utility relocations.

- Miscellaneous civil demolition work.
- Saw cutting and removal of portions of the existing concrete ramp / apron for new/relocated utility work and where the new Terminal building will be constructed. Transporting of this material to the designated stockpile location.
- Installation of new AOA fencing, along with removal of portions of the existing fencing.
- Installation of vehicle and man gates.
- Creation of new laydown and staging areas for the future TMP projects.
- Creation of areas for future construction field office trailers, including utility services to those locations (electrical, sanitary, water, etc.).
- Providing construction field offices, including final utility connections, for the Construction Managers.
- Providing a new jet-blast wall at Concourse “C”.
- Providing a turnstile system to permit access to Concourse “D” from the future (non-secured) Terminal construction area.
- Construction of a parking gate island and barriers for installation (by others) of gate arms.
- Construction of a new South Ramp Service Road,
- Installation of erosion control measures.
- Landscaping and seeding work.
- Electrical work associated with any/all of the above items.
- All other Work shown on the drawings and described in the Contract Documents beyond 5 FT from the existing buildings.

Building Work:

- Demolition of a portion of existing Terminal “E.”
- Modifications at Terminal “E” to create a new area for the Automated People Mover (APM) and Baggage System Breakdown procedures.
- Modifications at existing Airside Terminal to create a new drop-off area for the APM Breakdown procedure.
- Construction of a new elevator shaft, and installation of a new service elevator in the existing Airside Terminal.
- Other work inside the existing buildings shown on the drawings and described in the Contract Documents inside the existing buildings and 5 feet beyond their exteriors.
- Furnish and install of high speed overhead door systems.
- All Structural and Architectural work within the buildings is by the General Contractor.
- NOTE - There are (4) Bid Packages being issued and, thus, (4) separate Contracts will be awarded in association with the Work contained in this Early Site Access Work Package:
 - General Trades Work (20AG01) – this Contract is inclusive of all of the Work described in the “Sitework” section above. It also includes all of the other General Trades work required in association with the “Building Work” described in this section.
 - Electrical Work (20AE01) – this Contract includes all of the Electrical Work required in association with the Building Work described in this section.
 - Mechanical Work (20AM01) - this Contract includes all of the Mechanical Work required in association with the Building Work described in this section.

- Fire Protection (Sprinkler) and Plumbing Work (20APF01) - this Contract includes all of the Sprinkler and Plumbing Work required in association with the Building Work described in this section.
- Please note that all of these Contracts require Contractors to closely coordinate and collaborate with each other in a manner which will result in the smoothest and, overall, most successful project for all parties.

Contract (20AE01) – ELECTRICAL
Approximate Construction Value (\$200,000)

While this is not in any way an all-inclusive listing, the scope of this project includes:

SUMMARY OF ELECTRICAL WORK FOR EARLY SITE ACCESS PACKAGE

A. Demolition

1. Electrical removal of specific portions of inside and outside baggage conveying systems and also the outdoor conveyor carrousel canopy located at the central core south apron level.
2. Removal of lighting and receptacles in the plumber's shop on the apron level of the NW arm to allow for freight elevator installation.
3. Electrical demolition of Steel City News tenant space on the concourse level of the NW arm to for freight elevator installation.
4. Removal of lighting and relocation of light switches in the baggage spur area on the transit level of the NW arm to allow for freight elevator installation.
5. Complete electrical demolition of the entire center arm of the commuter terminal (Concourse E).
6. Remove unnecessary alarms from alarm panel.

B. New Installation and Modifications

1. Installation of battery charging equipment and feeds near baggage spur on transit level of NW arm for baggage tractors.
2. Electrical wiring of high-speed roll-up door system in maintenance shop area on apron level of NW arm for baggage tractor access to new freight elevator.
3. Installation of moisture sensing system components (control panel in maintenance area near new elevator on apron level of NW arm and sensors in unused area behind new elevator shaft in baggage spur located on transit level of NW arm) and associated wiring/raceways.
4. New lighting for new freight elevator rooms on apron level of NW arm.
5. New lighting and receptacles in elevator room on concourse level of NW arm (old Steel City News area).

6. Relocation of panel NW in old Steel City News area to allow for new freight elevator installation.
7. Installation of electrical and control equipment in the new elevator machine room on the apron level of the NW arm and also in the elevator hoist-way.
8. Lighting and receptacles for the elevator pit located in the baggage spur on the transit level of the NW arm.
9. Install of lightning protection components on the new freight elevator house on the roof of the NW arm.
10. Installation of battery charging equipment and feeds on transit level of airside building for baggage tractors.
11. Relocation of lightning warning beacons and stanchions removed from end of center arm to main building connection point of commuter terminal (Concourse E) and reconnection to existing power and signal cabling.
12. Electrical installation of miscellaneous security keypads and magnetic door locks at the apron level of the central core south and also at the apron level of the commuter terminal (Concourse E).
13. Furnish and install the air curtain system, complete, at the vestibule on the apron level of the central core south.
14. Electrical installation for new baggage conveyor system at apron level of south-central core.
15. Furnish and install, complete, new lighting and heaters
16. Furnish and install new circuits at new baggage conveyor canopy at apron level of south- central core area.

Electrical Contractor to include all work indicated or reasonably inferred on electrical drawings and specifications along with any references “by electrical contractor” or “see electrical” contained within other drawing packages.

Refer also to Section 800-09 (Detailed Scope of Work Section) for additional clarifications related to this package.

Contract (20AM01) – MECHANICAL
Approximate Construction Value (\$100,000)

While this is not in any way an all-inclusive listing, the scope of this project includes:

SUMMARY OF MECHANICAL WORK FOR EARLY SITE ACCESS PACKAGE

A. Mechanical

1. Mechanical systems for the central arm (Commuter Terminal Central Concourse) will be demolished.
2. Reroute ductwork to new louvers in adjacent corridor.
3. Excludes furnish and installation of sump pump in elevator pit at Concourse D.

4. Excludes furnish and installation of oil/water separator in new storage room at Concourse D.

B. HVAC

1. At Concourse D, install split HVAC unit in elevator mechanical room.
2. Install exhaust fan to draw air out of elevator machine room.
3. Install exhaust ductwork for exhaust fan.
4. Install vents in elevator hoist way.
5. Install various heaters where located on drawings.
6. Remove three rooftop split air conditioning units and salvage for reuse, at Commuter Terminal.
7. On the transit level, an existing HVAC duct that delivers fresh air to the existing ABS tunnel will be demolished back to about Column D1.5 to clear the elevator shaft. The outlet grille will be relocated to the new end of the duct.
8. On the concourse level, the supply and return air ducts to the adjacent bathrooms will need to be relocated toward the core to make room for the elevator shaft. One duct support will need to be moved closer to Column C1 as well.

Mechanical Contractor to include all work indicated or reasonably inferred on mechanical drawings and specifications along with any references “by mechanical contractor” or “see mechanical” contained within other drawing packages.

Refer also to Section 800-09 (Detailed Scope of Work Section) for additional clarifications related to this package.

Contract (20APF01) – PLUMBING & FIRE PROTECTION Approximate Construction Value (\$120,000)

While this is not in any way an all-inclusive listing, the scope of this project includes:

SUMMARY OF PLUMBING & FIRE PROTECTION WORK FOR EARLY SITE ACCESS PACKAGE

Provide all work shown on the Plumbing and Fire Protection Drawings, and as required by the specifications.

1. At Concourse D, route piping from sump pump to oil/water separator, route overflow from separator to floor drain, relocate roof drain and vent.
2. The fire protection sprinklers, alarms, beacons for the central arm (Commuter Concourse D) of the commuter terminal will be demolished. Cap the existing sprinkler piping and remove unnecessary alarms from alarm panel. Ref drawing FPD1-110

3. The sprinkler system will be revised in Concourse D on the apron and concourse level for the new freight elevator to be installed. Ref drawing FDP-112, FDP121, FP1-112, FP1-121
4. The sprinkler system in Concourse D new apron level storage area will be revised with a new antifreeze system for the apron level new smaller storage room and new and Freight Elevator vestibule room. Ref drawing FP1-112
5. The new service vestibule room in Concourse D on the concourse level will have a revised sprinkler system. Ref drawing FPD-121, FP121
6. The freight elevator transit level sprinkler system will be revised. Ref drawing FPDP-401 FP1-401
7. The fire protection sprinklers, alarms, beacons for the exterior baggage carousel apron level at the central core will be demolished. Cap the existing sprinkler piping. Ref drawing FPD1-111.
8. Furnish and install sump pump and associated piping at elevator pit at Concourse D.
9. Furnish and install oil/water separator and associated piping in new storage room at Concourse D.
10. Sprinkler work includes design work. Contractor shall provide required Professional Liability Insurance coverages as defined in the insurance requirements.

Plumbing and Fire Protection Contractor to include all work indicated or reasonably inferred on plumbing and fire protection drawings and specifications along with any references “by plumber” or “by plumbing contractor” or “by fire protection contractor” or “see plumbing” or “see fire protection” contained within other drawing packages.

Refer also to Section 800-09 (Detailed Scope of Work Section) for additional clarifications related to this package.