

WHITE FLINT METRORAIL STATION NORTH ENTRANCE FEASIBILITY STUDY Phasing Technical Memorandum

Montgomery County, Maryland
November 2019



Washington Metropolitan Area Transit Authority



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Table of Contents

1. Introduction.....	1
1.1 Overview	1
1.2 Purpose	1
2. Phasing Approach	2
2.1 Phase I – Full-Access Entrance; No Platform Canopy Extension	2
2.1.1 Phase I – Constructability & Sequence of Construction.....	3
2.2 Phase II – Platform Canopy Extension	4
2.2.1 Phase II – Constructability & Sequence of Construction.....	4
2.3 ROM Cost Estimate – Full Build-Out, Phase I & Phase II Comparison	5
3. Conclusion	5

Appendix

- Phasing Diagrams
- ROM Cost Estimates



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1. Introduction

1.1 Overview

This Technical Memorandum summarizes a phased implementation approach for the new north entrance Alternative 3 design that has been developed under the Washington Metropolitan Area Transit Authority's (Metro) 2019 *White Flint Metrorail Station North Entrance Feasibility Study*.

1.2 Purpose

The primary purpose for developing a two-part phased approach to implementing the new north entrance is to determine if a lower-cost initial build-out would be worth considering as an option for this improvement. For each of the two proposed phases, a description, construction staging, and Rough Order of Magnitude (ROM) cost estimate is included. Both phases assume construction staging to be accommodated on the empty lot that is located directly to the east of the new entrance (Location 3 seen in Figure 1).

Figure 1 | Potential Construction Storage, Staging and Material Lay Down Areas



2. Phasing Approach

To determine which elements of the preferred alternative would be constructed under each phase, individual components of the proposed design were evaluated and categorized into one of the following: elements required to provide a full-access entrance experience, and those that are not. This process resulted in all improvements being categorized under Phase I, except for the platform canopy extension as it is not required to support a full-access entrance.

Depending on when the new White Flint north entrance would be constructed, delaying the canopy extension may be an approach worth considering. A separate and parallel project has proposed a vehicular bridge over the existing White Flint station platform which will have to be coordinated with a future canopy extension if both projects move forward.

2.1 Phase I – Full-Access Entrance; No Platform Canopy Extension

After completion of Phase I, the north entrance will be full-access providing both entry and exit opportunities to customers. Phase I elements include the at-grade entrance structure with roof and skylight, double-wide platform stair, two elevators, and the over-platform mezzanine and roof structure that provides access and weather protection to the new stair and elevators. Providing full-access operations under Phase I requires the entrance to be staffed and to include a station manager's kiosk and fare vending machines, in addition to staff and customer restrooms. Phase I includes all components of the proposed design except for the platform canopy extension, which will be constructed under the Phase II build-out. For the purposes of this assessment, the duration between Phase I and Phase II was defined by Metro as five years.

Phase I construction elements were chosen based on their need to support a full-access entrance experience. Elements of the station entrance that are included in Phase I construction are:

1. Full depth, drilled shafts on both sides of the existing tunnel section
2. Full slab-on-grade entrance floor, with embedded conduits and plumbing
3. Concrete entrance roof structure, with skylight
4. Over-platform mezzanine extension: floor, roof, and skylight
5. Elevator machine / control panel room
6. At-grade ancillary rooms: finished and fit-out
7. Platform level, under-stair pump room
8. Faregate array, and pedestrian barriers
9. Two exit fare machines
10. Metal entrance barriers and entrance gates
11. Trash and recycling receptacles
12. Two elevators
13. Double-wide platform stair



14. Station Manager kiosk
15. Fare Vending Machines
16. Employee and Customer restrooms

2.1.1 Phase I – Constructability & Sequence of Construction

If the new entrance is constructed in a single full build-out, or divided into two phases, the general approach to construction and the assumptions included in the *White Flint Metrorail Station North Entrance Feasibility Study: Final Report* would still apply. Under a two-phase implementation approach, the sequence of construction previously submitted is separated and reorganized to apply only to those elements being built under the current phase. A revised sequence of construction for Phase I is included below, which includes some redundancies with Phase II due to having two construction periods:

1. Mobilize
2. Prepare selected construction staging area including clearing, providing a construction entrance, and delivering/staging of equipment and material
3. Coordinate with utility companies, protect existing utilities, and install new proposed utilities
4. Install temporary construction barrier on station platform and other construction site demising walls or barriers
5. Install temporary bracing under the boarding edge of the platform to support the platform during construction
6. Remove, store, and protect existing signage, pylons, and benches from the station platform to make way for the new improvements. Re-useable station elements to be stored off site for Metro's future use elsewhere in the Metrorail system.
7. Saw cut station platform and remove platform slab
8. Drill shafts and install micropiles under invert slab
9. Form, rebar, and pour (FRP) support beams above the tunnel invert and on top of micropiles
10. FRP elevator sump pits and pit drainage for both elevators (Coordinate with selected elevator vendor).
11. Install all new underplatform pipe and conduit runs
12. FRP new mezzanine columns on top of new underplatform beams
13. Erect new mezzanine structure
14. Restore station platform
15. FRP new mezzanine deck and parapets
16. Install parapet railings
17. Install double-wide stair at the end of the new mezzanine
18. Install both elevators
19. Install mezzanine roof assembly over mezzanine extension and stairs
20. Install full-depth 48" diameter drilled shafts to support the north mezzanine roof assembly
21. Install full extents of the new mezzanine's slab-on-grade, inclusive of all embedded plumbing and conduit runs
22. Install Station Manager kiosk



23. Install fare vending machines
24. Install faregate array (5 faregates) and barriers separating paid and unpaid areas
25. Install two exit fare machines
26. Install metal entrance barriers and station gates
27. Construct Back-of-House (BOH) equipment rooms and facilities at mezzanine level
28. Install all mechanical, plumbing, and electrical systems necessary for Phase I
29. Install CCTV, fire alarm, communications and intercom systems for Phase I
30. Complete all final finishes and installation of floor tiles
31. Remove the temporary construction barrier from the station platform
32. Open the new entrance for full-access operations

2.2 Phase II – Platform Canopy Extension

Five years after Phase I has been completed, Phase II construction begins to complete the platform canopy extension.

2.2.1 Phase II – Constructability & Sequence of Construction

Like Phase I, the general approach to construction and the assumptions included in the *White Flint Metrorail Station North Entrance Feasibility Study: Final Report* would still apply. The general approach and assumptions should be revisited in coordination with the aforementioned separate and parallel over-platform vehicular bridge project. The sequence of construction for Phase II is included below, which includes some redundancies with Phase I due to a phased implementation approach having two construction periods:

1. Mobilize
2. Prepare selected construction staging area including clearing, providing a construction entrance, and delivering/staging of equipment and material
3. Install temporary construction barrier on station platform and other construction site separating walls or barriers for areas around the canopy extension along the platform
4. Install temporary bracing under the boarding edge of the platform to support the platform during construction for areas around the canopy extension along the platform
5. Remove, store, and protect existing signage, pylons, and benches from the station platform to make way for the new improvements. Re-useable station elements to be stored off site for Metro's future use elsewhere in the Metrorail system
6. Saw cut station platform and remove platform slab
7. Form, rebar, and pour (FRP) new canopy footings on top of invert slab
8. Construct canopy extension structure over platform
9. Restore station platform
10. Install all plumbing and electrical systems necessary for Phase II
11. Install CCTV, fire alarm, communications and intercom systems for Phase II
12. Complete all final finishes
13. Remove the temporary construction barrier from the station platform



14. Return the station to regular operations

2.3 ROM Cost Estimate – Full Build-Out, Phase I & Phase II Comparison

To provide a basis of comparison and evaluation, ROM cost estimates were developed for both a non-phased implementation approach and a phased implementation approach. These estimates were developed using the same set of assumptions as included for Alternative 1 and 2 in the *White Flint Metrorail Station North Entrance Feasibility Study: Final Report*, with the exception of the Phase II estimate. The Phase II canopy extension estimate is different only in that it was developed with a slightly higher mark-up to account for a bidder premium being placed on the substantially smaller Phase II scope of work.

The full build-out and Phase I options are assumed to begin construction at the same time, with Phase II construction beginning 5 years after Phase I is complete. All costs are escalated to the mid-point of construction.

Table 1 | ROM Cost Estimate – Summary

Alternative 3	Construction Total	Professional Services Cost	Unallocated Contingency	Mid-Point Escalation	Total Project Cost	Total Project Duration
Full Build-Out	\$18,000,000	\$5,400,000	\$7,025,000	\$4,375,000	\$34,800,000	28 months
Phase I	\$17,125,000	\$5,125,000	\$6,650,000	\$3,600,000	\$32,550,000	18 months
Phase II	\$1,300,000	\$400,000	\$500,000	\$950,000	\$3,120,000	10 months

Notes: Figures above rounded for clarity, see Appendix for detailed cost estimates.

3. Conclusion

Constructing the new north entrance at White Flint Metrorail station is feasible under a single-phase full build-out or a two-phase implementation approach.

The full build-out option provides benefits of a single construction period, with the least amount of disruption, and at the lowest cumulative project cost. The phased approach does not offer significant upfront savings, introduces two disruptive construction periods, results in a higher cumulative project cost, but also comes with the opportunity of constructing the platform canopy extension later so that it can be coordinated with the over-platform vehicular bridge that is being considered under a separate but parallel design study. Depending on the timing of these two improvements, the following scenarios are possible:

- If the bridge project will not move forward, it is recommended to implement the new north entrance improvements under a full build-out approach.



- If the bridge project will move forward, and the timing of both projects permits, it is recommended to coordinate their implementation to result in the least amount of construction time and disruption to customers. Under this scenario, a phased approach may offer scheduling flexibility necessary to support this outcome and should be taken into consideration when more details of the bridge project are known.
- If the bridge project will move forward, and the timing is uncertain, it is recommended to implement the new north entrance improvements under a full build-out approach. Under this scenario, accommodations for the future bridge, such as removeable canopy segments, should be considered and incorporated into the final design of the canopy extension.



Appendix:

- Phasing Diagrams A-2
- ROM Cost Estimates A-3

PROJECT: WMATA White Flint North Entrance Feasibility Study
Alternates 1, 2, 3 (No Phasing), 3 (Phase I), & 3 (Phase II)
CONTRACT NO - 60589655

Estimate by: SS 11/11/2019
 Checked by: KS 11/11/2019

Date Prepared: 11/11/2019 **Project Phase:** Schematic

		30%	30%	4%								
	Construction Total	Professional Services Cost	Unallocated Contingency	Mid-Point Escalation	Estimated Mid-Point of Construction	ROW Cost Allowance	Total Project Cost		Duration	To Mid-Point		
Alternate 1	\$ 17,490,187	\$ 5,247,056	\$ 6,821,173	\$ 4,238,603	Aug-22	\$ -	\$ 33,800,000	Allocated Contingency	30%	28.00 months		3.42 yrs
Alternate 2	\$ 16,934,935	\$ 5,080,481	\$ 6,604,625	\$ 4,104,043	Aug-22	\$ -	\$ 32,725,000	Allocated Contingency	30%	28.00 months		3.42 yrs
Alternate 3 (No Phasing)	\$ 17,976,562	\$ 5,392,969	\$ 7,010,859	\$ 4,356,472	Aug-22	\$ -	\$ 34,800,000	Allocated Contingency	30%	28.00 months		3.42 yrs
Alternate 3 (Phase I)	\$ 17,121,829	\$ 5,136,549	\$ 6,677,513	\$ 3,613,051	Apr-22	\$ -	\$ 32,550,000	Allocated Contingency	30%	18.00 months		3.00 yrs
Alternate 3 (Phase II)	\$ 1,285,321	\$ 385,596	\$ 501,275	\$ 939,790	May-28	\$ -	\$ 3,120,000	Allocated Contingency	30%	10.00 months		9.17 yrs

Assumptions

- Estimates are prepared using current dollars (2019)
- Adequate experienced craft labor is available
- Normal productivity rates as historically experienced are utilized
- Compatible trade agreements exist in the region
- No strike impacts will be experienced by the project
- There are sufficient experienced contractors available to perform said work
- Normal Metro Washington D.C. area weather impacts to constructions schedule
- Existing state of the art construction technology will be utilized
- Assumes cooperation between stakeholders
- 2019 Costs include base construction, sales tax, contractor mark-up, subcontractor mark-up (30.68% combined) & allocated contingency (50%).
- Estimate assumes a Design-Bid-Build project delivery
- Estimate assumes maintaining operation of the station facility during construction
- Assumes construction duration of 28 months
- 30% Professional Services (FTA SCC 80)
- 30% Unallocated contingency
- WMATA force account labor/equipment during track outages and/or adjacent active track work (included in Professional Services)
- RRP (Railroad Protective Liability) insurance is included
- Mid-Point escalation is assumed to be 4% per year
- Work is assumed to be done either before the development work or in conjunction with the development work.
- ROW costs are assumed to be \$0.
- Assume 12 months for Agreement, 12 months for Design, 3 months to bid. 2.25 yrs
- No hazardous or contaminated material mitigation is included
- No articles of historic significance are expected to be discovered
- Take-off and scope of work based on drawings dated 4-30-19
- All estimates assume cast-in-place concrete and not steel or precast concrete
- Appropriate fire protection and controls are included.
- For Phase 1 and Phase 2 of Alternate 3, it is assumed Phase 2 starts in the field 5 years after completion of Phase 1.



AECOM
 Gulf Tower
 707 Grant Street
 Pittsburgh, PA 15219

Project: White Flint Station - New North Entrance
 Location: Montgomery County, MD
 Client: WMATA

11/11/2019

Schematic Design

Estimate Summary - Alternate 1

Division	Description	% of Costs	Total
1	General Conditions	0.00%	\$ -
2	Existing Conditions	2.93%	\$ 273,074
3	Concrete	18.49%	\$ 1,722,211
4	Masonry	0.00%	\$ -
5	Metals	1.38%	\$ 128,431
6	Wood, Lumber, and Composites	0.00%	\$ -
7	Thermal and Moisture Protection	2.18%	\$ 203,177
8	Openings	13.72%	\$ 1,278,437
9	Finishes	3.89%	\$ 362,499
10	Specialties	0.00%	\$ -
11	Equipment	0.00%	\$ -
12	Furnishings	0.59%	\$ 55,099
13	Special Construction	0.00%	\$ -
14	Conveying Systems	17.18%	\$ 1,600,000
21	Fire Suppression	0.28%	\$ 25,651
22	Plumbing	3.40%	\$ 316,717
23	Heating, Ventilating, and Air Conditioning	0.40%	\$ 37,000
26	Electrical	6.48%	\$ 603,668
27	Communications	0.17%	\$ 16,251
28	Electronic Safety and Security	1.14%	\$ 106,308
31	Earthwork	1.82%	\$ 169,989
32	Exterior Improvements	1.17%	\$ 109,074
33	Utilities	4.74%	\$ 441,984
34	Transportation	20.03%	\$ 1,865,533
Subtotal			\$ 9,315,103
General Conditions		15.00%	\$ 1,397,266
Security Allowance		3.00%	\$ 279,453
Phasing Requirements		Not Required	0.00% \$ -
Subtotal			\$ 10,991,822
Mid Project Escalation		Included in Summary Comparison	0.00% \$ -
Subtotal			\$ 10,991,822
General Contractor Overhead		10.00%	\$ 1,099,182
General Contractor Profit		10.00%	\$ 1,099,182
Subtotal			\$ 13,190,187
Bonds and Insurance		2.00%	\$ 263,804
Subtotal			\$ 13,453,990
Allocated Contingency		30.00%	\$ 4,036,197
Unallocated Contingency		Included in Summary Comparison	0.00% \$ -
Total Construction Costs			\$ 17,490,187
Professional Services		Included in Summary Comparison	0.00% \$ -
Total Cost			\$ 17,490,187



AECOM White Flint Station - New North Entrance
 Gulf Tower Location: Montgomery County, MD
 707 Grant Street Client: WMATA
 Pittsburgh, PA 15219

Estimate by: SS 11/11/2019
 Checked by: KS 11/11/2019

13.00 Estimate Detail - Alternate 1

Item #	Description	Quantity	UOM	MH/Unit	Tot. Hours	Crew	\$/MH	Labor	Labor Total	Material	Material Total	Equipment	Equipment Total	Other	Other Total	Unit Cost	Subtotal	Sub Markups	Total Cost	
001 General Conditions																				
001 General Conditions Total																			\$	-
002 Existing Conditions																				
2.001	Elevator Pits Demo	36.94	CUYD	4.80	177.33	B10M	\$ 45.13	\$ 216.63	\$ 8,003.22	\$0.00	\$ -	\$ 134.29	\$ 4,961.11	\$ -	\$ -	\$ -	\$ 350.91	\$ 12,964.33	0.00%	\$ 12,964.33
2.002	Existing Slab Demo	6.17	CUYD	4.00	24.67	CONC001	\$ 48.34	\$ 193.37	\$ 1,192.47	\$0.00	\$ -	\$ 131.67	\$ 811.94	\$ -	\$ -	\$ -	\$ 325.04	\$ 2,004.42	0.00%	\$ 2,004.42
2.003	Existing Pylon Type A-1 Demo	3.00	EA	4.00	12.00	CARP	\$ 49.28	\$ 197.12	\$ 591.35	\$0.00	\$ -	\$ 1,300.00	\$ 3,900.00	\$ -	\$ -	\$ -	\$ 1,497.12	\$ 4,491.35	0.00%	\$ 4,491.35
2.004	Existing Sheltered Bench Demo	2.00	EA	8.00	16.00	CARP	\$ 49.28	\$ 394.24	\$ 788.47	\$0.00	\$ -	\$ 1,300.00	\$ 2,600.00	\$ -	\$ -	\$ -	\$ 1,694.24	\$ 3,388.47	0.00%	\$ 3,388.47
2.005	Trackside Safety Fence	1000.00	LF	0.50	500.00	CARP	\$ 49.28	\$ 24.64	\$ 24,639.77	\$35.00	\$ 35,000.00	\$ 0.65	\$ 650.00	\$ -	\$ -	\$ -	\$ 60.29	\$ 60,289.77	0.00%	\$ 60,289.77
2.006	Platform Slab Opening - cut & place back once piles, footing and column complete	210.00	SF	0.50	105.00	B10M	\$ 81.20	\$ 40.60	\$ 8,526.26	\$30.00	\$ 6,300.00	\$ 33.40	\$ 7,014.00	\$ -	\$ -	\$ -	\$ 104.00	\$ 21,840.26	0.00%	\$ 21,840.26
2.007	Core through Invert Slab	70.00	SF	1.20	84.00	B10M	\$ 81.20	\$ 97.44	\$ 6,821.01	\$0.00	\$ -	\$ 394.00	\$ 27,580.00	\$ -	\$ -	\$ -	\$ 491.44	\$ 34,401.01	0.00%	\$ 34,401.01
2.008	Temporary Shoring btw platform and invert slab	576.00	SF	0.33	190.08	B10M	\$ 81.20	\$ 26.80	\$ 15,434.97	\$15.00	\$ 8,640.00	\$ 16.70	\$ 9,619.20	\$ -	\$ -	\$ -	\$ 58.50	\$ 33,694.17	0.00%	\$ 33,694.17
2.009	Monitoring of Surrounding Structure	1.00	ALLOW	0.00	0.00	B10M	\$ 81.20	\$ -	\$ -	\$0.00	\$ -	\$ -	\$ -	\$ 100,000.00	\$ 100,000.00	\$ -	\$ 100,000.00	\$ 100,000.00	0.00%	\$ 100,000.00
002 Existing Conditions Total																			\$	273,073.79
003 Concrete																				
Mezzanine Level:																				
3.001	Floor - Elevator Mezz Area, 8" depth	76.53	CUYD	5.00	382.67	CONC001	\$ 48.34	\$ 241.72	\$ 18,499.42	\$290.12	\$ 22,204.16	\$ 60.00	\$ 4,592.00	\$ -	\$ -	\$ -	\$ 591.84	\$ 45,295.58	0.00%	\$ 45,295.58
3.002	Concrete Floor Beams	54.67	CUYD	6.00	328.00	IRON	\$ 76.94	\$ 461.66	\$ 25,237.54	\$290.00	\$ 15,853.33	\$ 450.00	\$ 24,600.00	\$ -	\$ -	\$ -	\$ 1,201.66	\$ 65,690.87	0.00%	\$ 65,690.87
3.003	Double-Wide 10' Stairs	367.65	SF	0.50	183.82	CONC001	\$ 48.34	\$ 24.17	\$ 8,886.67	\$35.00	\$ 12,867.67	\$ 4.29	\$ 1,575.63	\$ -	\$ -	\$ -	\$ 63.46	\$ 23,329.97	0.00%	\$ 23,329.97
3.004	Concrete Columns, 2.5' x 2.5'	22.92	CUYD	20.00	458.33	CONC001	\$ 48.34	\$ 966.87	\$ 22,157.41	\$290.12	\$ 6,648.68	\$ 200.00	\$ 4,583.33	\$ -	\$ -	\$ -	\$ 1,456.99	\$ 33,389.42	0.00%	\$ 33,389.42
3.005	Floor, 12" Slab on grade w/ 4" finish	229.75	CUYD	5.00	1148.74	CONC001	\$ 48.34	\$ 241.72	\$ 55,533.98	\$290.12	\$ 66,655.36	\$ 20.00	\$ 4,594.96	\$ -	\$ -	\$ -	\$ 551.84	\$ 126,784.30	0.00%	\$ 126,784.30
3.006	Concrete Grade Beams	27.62	CUYD	15.00	414.33	CONC001	\$ 48.34	\$ 725.15	\$ 20,030.30	\$290.00	\$ 8,010.44	\$ 205.56	\$ 5,677.90	\$ -	\$ -	\$ -	\$ 1,220.71	\$ 33,718.64	0.00%	\$ 33,718.64
3.007	Exterior Walls	32.73	CUYD	10.00	327.33	CONC001	\$ 48.34	\$ 483.43	\$ 15,824.42	\$290.12	\$ 9,496.73	\$ 200.00	\$ 6,546.67	\$ -	\$ -	\$ -	\$ 973.56	\$ 31,867.81	0.00%	\$ 31,867.81
3.008	8" Interior Walls	54.84	CUYD	10.00	548.44	CONC001	\$ 48.34	\$ 483.43	\$ 26,513.69	\$290.12	\$ 15,911.69	\$ 200.00	\$ 10,968.89	\$ -	\$ -	\$ -	\$ 973.56	\$ 53,394.27	0.00%	\$ 53,394.27
3.009	6" Interior Walls	18.22	CUYD	10.00	182.17	CONC001	\$ 48.34	\$ 483.43	\$ 8,806.56	\$290.12	\$ 5,285.09	\$ 200.00	\$ 3,643.33	\$ -	\$ -	\$ -	\$ 973.56	\$ 17,734.99	0.00%	\$ 17,734.99
3.010	Sidewalk	2600.00	SF	0.05	130.00	CONC001	\$ 48.34	\$ 2.42	\$ 6,284.65	\$10.00	\$ 26,000.00	\$ 1.09	\$ 2,846.72	\$ -	\$ -	\$ -	\$ 13.51	\$ 35,131.36	0.00%	\$ 35,131.36
Platform Level:																				
3.011	Elevator Pits	36.94	CUYD	6.00	221.67	CONC001	\$ 48.34	\$ 290.06	\$ 10,716.13	\$290.00	\$ 10,713.89	\$ 50.00	\$ 1,847.22	\$ -	\$ -	\$ -	\$ 630.06	\$ 23,277.24	0.00%	\$ 23,277.24
3.012	Drilled Shafts, 48"	84.00	VLF	5.00	420.00	PILE	\$ 64.54	\$ 322.71	\$ 27,107.35	\$158.24	\$ 13,292.43	\$ 166.67	\$ 14,000.00	\$ -	\$ -	\$ -	\$ 647.62	\$ 54,399.77	0.00%	\$ 54,399.77
3.013	Concrete Columns, 1.5' x 1.5'	21.00	CUYD	18.00	378.00	CONC001	\$ 48.34	\$ 870.18	\$ 18,273.82	\$290.12	\$ 6,092.61	\$ 214.29	\$ 4,500.00	\$ -	\$ -	\$ -	\$ 1,374.59	\$ 28,866.42	0.00%	\$ 28,866.42
3.014	Concrete Columns, 2' x 2'	4.89	CUYD	20.00	97.78	CONC001	\$ 48.34	\$ 966.87	\$ 4,726.91	\$290.12	\$ 1,418.38	\$ 312.50	\$ 1,527.78	\$ -	\$ -	\$ -	\$ 1,569.49	\$ 7,673.08	0.00%	\$ 7,673.08
3.015	New Canopy Columns	9.00	CUYD	24.00	216.00	CONC001	\$ 48.34	\$ 1,160.24	\$ 10,442.18	\$290.12	\$ 2,611.12	\$ 500.00	\$ 4,500.00	\$ -	\$ -	\$ -	\$ 1,950.37	\$ 17,553.30	0.00%	\$ 17,553.30
3.016	Column Footing Grade Beam, 3'x3'x5' long	10.00	CUYD	20.00	200.00	CONC001	\$ 48.34	\$ 966.87	\$ 9,668.69	\$290.00	\$ 2,900.00	\$ 740.00	\$ 7,400.00	\$ -	\$ -	\$ -	\$ 1,996.87	\$ 19,968.69	0.00%	\$ 19,968.69
3.017	Micropiles 9" dia.	1440.00	VLF	0.80	1152.00	PILE	\$ 64.54	\$ 51.63	\$ 74,351.58	\$90.00	\$ 129,600.00	\$ 47.90	\$ 68,980.65	\$ -	\$ -	\$ -	\$ 189.54	\$ 272,932.22	0.00%	\$ 272,932.22
Roof:																				
3.018	Canopy Platform (match exist south canopy)	191.53	CUYD	8.00	1532.21	IRON	\$ 64.12	\$ 512.96	\$ 98,244.84	\$290.00	\$ 55,542.55	\$ 150.00	\$ 28,728.91	\$ -	\$ -	\$ -	\$ 952.96	\$ 182,516.30	0.00%	\$ 182,516.30
3.019	Canopy Longitudinal Beams	139.42	CUYD	8.00	1115.36	IRON	\$ 64.12	\$ 512.96	\$ 71,516.46	\$290.00	\$ 40,431.71	\$ 180.00	\$ 25,095.55	\$ -	\$ -	\$ -	\$ 982.96	\$ 137,043.72	0.00%	\$ 137,043.72
3.020	Canopy Primary Beams	36.00	CUYD	6.00	216.00	IRON	\$ 76.94	\$ 461.66	\$ 16,619.84	\$290.00	\$ 10,440.00	\$ 350.00	\$ 12,600.00	\$ -	\$ -	\$ -	\$ 1,101.66	\$ 39,659.84	0.00%	\$ 39,659.84
3.021	Canopy Secondary Beams	92.56	CUYD	6.50	601.61	IRON	\$ 76.94	\$ 500.13	\$ 46,290.19	\$290.00	\$ 26,841.11	\$ 250.00	\$ 23,138.89	\$ -	\$ -	\$ -	\$ 1,040.13	\$ 96,270.19	0.00%	\$ 96,270.19
3.022	Mezzanine Roof Framing	299.22	CUYD	8.00	2393.78	IRON	\$ 64.12	\$ 512.96	\$ 153,488.46	\$290.00	\$ 86,774.44	\$ 90.00	\$ 26,930.00	\$ -	\$ -	\$ -	\$ 892.96	\$ 267,192.90	0.00%	\$ 267,192.90
3.023	Mezzanine Roof Slab, 6"	155.20	CUYD	6.50	1008.79	CONC001	\$ 48.34	\$ 314.23	\$ 48,768.53	\$290.00	\$ 45,007.70	\$ 95.00	\$ 14,743.90	\$ -	\$ -	\$ -	\$ 699.23	\$ 108,520.13	0.00%	\$ 108,520.13
003 Concrete Total																			\$	1,722,211.02
004 Masonry																				
004 Masonry Total																			\$	-
005 Metals																				
Mezzanine Level:																				
5.001	Stairs Railing	110.29	LF	0.25	27.57	IRON	\$ 64.12	\$ 16.03	\$ 1,768.01	\$200.00	\$ 22,058.86	\$ 8.64	\$ 952.54	\$ -	\$ -	\$ -	\$ 224.67	\$ 24,779.41	0.00%	\$ 24,779.41
5.002	Balustrades	637.70	SF	0.33	210.44	IRON	\$ 64.12	\$ 21.16	\$ 13,493.43	\$125.00	\$ 79,712.50	\$ 6.33	\$ 4,038.77	\$ -	\$ -	\$ -	\$ 152.49	\$ 97,244.69	0.00%	\$ 97,244.69
5.003	Fare Gate Railing	30.80	LF	0.13	3.85	IRON	\$ 64.12	\$ 8.01	\$ 246.86	\$200.00	\$ 6,160.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 208.01	\$ 6,406.86	0.00%	\$ 6,406.86
5.004	Bike Storage Facility - Excluded	1.00	LS	0.00	0.00	IRON	\$ 64.12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%	\$ -
005 Metals Total																			\$	128,430.96
006 Wood and Plastics																				
006 Wood and Plastics Total																			\$	-
007 Thermal and Moisture Protection																				
7.001	Waterproofing	9302.79	SF	0.25	2325.70	B10M	\$ 45.13	\$ 11.28	\$ 104,960.86	\$10.00	\$ 93,027.90	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21.28	\$ 197,988.76	0.00%	\$ 197,988.76
7.002	Waterproofing Seal - micropile and invert slab	70.00	SF	0.68	47.60	B10M	\$ 45.13	\$ 30.69	\$ 2,148.23	\$30.00	\$ 2,100.00	\$ 13.43	\$ 940.00	\$ -	\$ -	\$ -	\$ 74.12	\$ 5,188.23	0.00%	\$ 5,188.23
007 Thermal and Moisture Protection Total																			\$	203,176.99
008 Openings																				
Mezzanine Level:																				
8.001	Elevator #1 Enclosure	1398.25	SF	0.07	93.68	GLAZ	\$ 51.64	\$ 3.46	\$ 4,838.11	\$200.00	\$ 279,649.78	\$ 1.06	\$ 1,475.93	\$ -	\$ -	\$ -	\$ 204.52	\$ 285,963.82	0.00%	\$ 285,963.82
8.002	Elevator #2 Enclosure	1398.25	SF	0.07	93.68	GLAZ	\$ 51.64	\$ 3.46	\$ 4,838.11	\$200.00	\$ 279,649.78	\$ 1.06	\$ 1,475.93	\$ -	\$ -	\$ -	\$ 204.52	\$ 285,963.82	0.00%	\$ 285,963.82
8.003	Interior Doors	10.00	EA	9.00	90.00	CARP	\$ 49.28	\$ 443.52	\$ 4,435.16	\$4,000.00	\$ 40,000.00	\$ 50.00	\$ 500.00	\$ -	\$ -	\$ -	\$ 4,493.52	\$ 44,935.16	0.00%	\$ 44,935.16
8.003	Entry Gates	3.00	EA	24.00	72.00	CARP	\$ 49.28	\$ 1,182.71	\$ 3,548.13	\$8,000.00	\$ 24,000.00	\$ 475.00	\$ 1,425.00	\$ -	\$ -	\$ -	\$ 9,657.71	\$ 28,973.13	0.00%	\$ 28,973.13
Roof:																				
8.004	Canopy Skylight	1773.71	SF	0.10	177.37	GLAZ	\$ 51.64	\$ 5.16	\$ 9,160.10	\$200.00	\$ 354,742.61	\$ 1.58	\$ 2,808.38	\$ -	\$ -	\$ -	\$ 206.75	\$ 366,711.09	0.00%	\$ 366,711.09
8.005	Mezzanine Roof Skylight	1286.06	SF	0.10	128.61	GLAZ	\$ 51.64	\$ 5.16	\$ 6,641.67	\$200.00	\$ 257,211.60	\$ 1.58	\$ 2,036.26	\$ -	\$ -	\$ -	\$ 206.75	\$ 265,889.53	0.00%	\$ 265,889.53
008 Openings Total																			\$	1,278,436.55
009 Finishes																				
9.001	New Mezzanine Finishes	8562.79	SF	0.25	2140.70	TILE	\$ 47.55	\$ 11.89	\$ 101,782.29	\$25.00	\$ 214,069.75	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 36.89	\$ 315,852.04		



AECOM White Flint Station - New North Entrance
 Gulf Tower Location: Montgomery County, MD
 707 Grant Street Client: WMATA
 Pittsburgh, PA 15219

Estimate by: SS 11/11/2019
 Checked by: KS 11/11/2019

13.00 Estimate Detail - Alternate 1

Item #	Description	Quantity	UOM	MH/Unit	Tot. Hours	Crew	\$/MH	Labor	Labor Total	Material	Material Total	Equipment	Equipment Total	Other	Other Total	Unit Cost	Subtotal	Sub Markups	Total Cost		
009 Finishes Total																				\$	362,499.47
010 Specialties																					
010 Specialties Total																				\$	-
011 Equipment																					
011 Equipment Total																				\$	-
012 Furnishings																					
12.001	Benches	10.00	EA	0.10	1.00	CARP	\$ 49.28	\$ 4.93	\$ 49.28	\$4,000.00	\$ 40,000.00	\$ -	\$ -	\$ -	\$ -	\$ 4,004.93	\$ 40,049.28	0.00%	\$ 40,049.28		
12.002	Waste and recycling containers	10.00	EA	0.10	1.00	CARP	\$ 49.28	\$ 4.93	\$ 49.28	\$1,500.00	\$ 15,000.00	\$ -	\$ -	\$ -	\$ -	\$ 1,504.93	\$ 15,049.28	0.00%	\$ 15,049.28		
012 Furnishings Total																				\$	55,098.56
013 Special Construction																					
013 Special Construction Total																				\$	-
014 Conveying Systems																					
14.001	Elevators	2.00	EA	0.00	0.00	B10M	\$ 45.13	\$ -	\$ -	\$800,000.00	\$ 1,600,000.00	\$ -	\$ -	\$ -	\$ -	\$ 800,000.00	\$ 1,600,000.00	0.00%	\$ 1,600,000.00		
014 Conveying Systems Total																				\$	1,600,000.00
021 Fire Suppression																					
21.001	FA Notification Device	9	EACH	1.20	10.80	ELEC	\$ 75.14	\$ 90.16	\$ 811.47	\$75.00	\$ 675.00	\$ -	\$ -	\$ -	\$ -	\$ 165.16	\$ 1,486.47	0.00%	\$ 1,486.47		
21.002	FA Initiation Device	6	EACH	1.20	7.20	ELEC	\$ 75.14	\$ 90.16	\$ 540.98	\$75.00	\$ 450.00	\$ -	\$ -	\$ -	\$ -	\$ 165.16	\$ 990.98	0.00%	\$ 990.98		
21.003	FA Equipment	1	ALLOW	29.96	29.96	ELEC	\$ 75.14	\$ 2,251.37	\$ 2,251.37	\$3,000.00	\$ 3,000.00	\$ -	\$ -	\$ -	\$ -	\$ 5,251.37	\$ 5,251.37	0.00%	\$ 5,251.37		
21.004	Fire Alarm Wiring	2000	LNFT	0.08	160.00	ELEC	\$ 75.14	\$ 6.01	\$ 12,022.33	\$1.00	\$ 2,000.00	\$ -	\$ -	\$ -	\$ -	\$ 7.01	\$ 14,022.33	0.00%	\$ 14,022.33		
21.005	FA Test & Check System	1	ALLOW	0.00	0.00	ELEC	\$ 75.14	\$ -	\$ -	\$1,500.00	\$ 1,500.00	\$ -	\$ -	\$ -	\$ -	\$ 1,500.00	\$ 1,500.00	0.00%	\$ 1,500.00		
21.006	FA Programming/ Engineering	1	ALLOW	0.00	0.00	ELEC	\$ 75.14	\$ -	\$ -	\$2,400.00	\$ 2,400.00	\$ -	\$ -	\$ -	\$ -	\$ 2,400.00	\$ 2,400.00	0.00%	\$ 2,400.00		
021 Fire Suppression Total																				\$	25,651.14
022 Plumbing																					
22.001	Restrooms	3.00	EA	64.00	192.00	PLUM	\$ 71.88	\$ 4,600.58	\$ 13,801.75	\$8,000.00	\$ 24,000.00	\$ 1,000.00	\$ 3,000.00	\$ -	\$ -	\$ 13,600.58	\$ 40,801.75	0.00%	\$ 40,801.75		
22.002	Plumbing	9302.79	SF	0.35	3255.98	PLUM	\$ 71.88	\$ 25.16	\$ 234,053.02	\$4.50	\$ 41,862.56	\$ -	\$ -	\$ -	\$ -	\$ 29.66	\$ 275,915.57	0.00%	\$ 275,915.57		
022 Plumbing Total																				\$	316,717.32
023 HVAC																					
23.001	HVAC	740	SF	0.00	0.00	ELEC	\$ 75.14	\$ -	\$ -	\$ -	\$ -	\$ 50.00	\$ 37,000.00	\$ -	\$ -	\$ 50.00	\$ 37,000.00	0.00%	\$ 37,000.00		
023 HVAC Total																				\$	37,000.00
026 Electrical																					
26.001	Motor Control Center	1	EACH	35.00	35.00	ELEC	\$ 75.14	\$ 2,629.88	\$ 2,629.88	\$24,000.00	\$ 24,000.00	\$ -	\$ -	\$ -	\$ -	\$ 26,629.88	\$ 26,629.88	0.00%	\$ 26,629.88		
26.002	Primary Circuit Protection For MCC	1	EACH	12.00	12.00	ELEC	\$ 75.14	\$ 901.67	\$ 901.67	\$5,500.00	\$ 5,500.00	\$ -	\$ -	\$ -	\$ -	\$ 6,401.67	\$ 6,401.67	0.00%	\$ 6,401.67		
26.003	MCC Distribution Feeder Conduit & Wire	300	LNFT	0.82	246.00	ELEC	\$ 75.14	\$ 61.62	\$ 18,484.55	\$47.94	\$ 14,382.00	\$ -	\$ -	\$ -	\$ -	\$ 109.56	\$ 32,866.55	0.00%	\$ 32,866.55		
26.004	Power For Display Board	7	EACH	14.01	98.07	ELEC	\$ 75.14	\$ 1,052.74	\$ 7,369.20	\$210.00	\$ 1,470.00	\$ -	\$ -	\$ -	\$ -	\$ 1,262.74	\$ 8,839.20	0.00%	\$ 8,839.20		
26.005	Power To Elevator	2	EACH	34.93	69.87	ELEC	\$ 75.14	\$ 2,624.96	\$ 5,249.92	\$1,800.00	\$ 3,600.00	\$ -	\$ -	\$ -	\$ -	\$ 4,424.96	\$ 8,849.92	0.00%	\$ 8,849.92		
26.006	Power To Elevator Sump Pump	2	EACH	21.00	41.99	ELEC	\$ 75.14	\$ 1,577.73	\$ 3,155.47	\$450.00	\$ 900.00	\$ -	\$ -	\$ -	\$ -	\$ 2,027.73	\$ 4,055.47	0.00%	\$ 4,055.47		
26.007	Power To Base Board Heater	8	EACH	15.01	120.08	ELEC	\$ 75.14	\$ 1,127.80	\$ 9,022.38	\$220.00	\$ 1,760.00	\$ -	\$ -	\$ -	\$ -	\$ 1,347.80	\$ 10,782.38	0.00%	\$ 10,782.38		
26.008	Power To Ventilation Unit	6	EACH	20.00	120.00	ELEC	\$ 75.14	\$ 1,502.79	\$ 9,016.74	\$400.00	\$ 2,400.00	\$ -	\$ -	\$ -	\$ -	\$ 1,902.79	\$ 11,416.74	0.00%	\$ 11,416.74		
26.009	Emergency Power Tie Into Existing System (Elevator, etc.)	1	ALLOW	60.00	60.00	ELEC	\$ 75.14	\$ 4,508.37	\$ 4,508.37	\$2,000.00	\$ 2,000.00	\$ -	\$ -	\$ -	\$ -	\$ 6,508.37	\$ 6,508.37	0.00%	\$ 6,508.37		
26.010	Canopy LED Light Fixture	42	EACH	1.20	50.40	ELEC	\$ 75.14	\$ 90.16	\$ 3,786.84	\$385.00	\$ 16,170.00	\$ -	\$ -	\$ -	\$ -	\$ 475.16	\$ 19,956.84	0.00%	\$ 19,956.84		
26.011	Platform Edge Light	84	EACH	1.50	126.01	ELEC	\$ 75.14	\$ 112.72	\$ 9,468.15	\$220.00	\$ 18,480.00	\$ -	\$ -	\$ -	\$ -	\$ 332.72	\$ 27,948.15	0.00%	\$ 27,948.15		
26.012	North Entrance Mezz Light	34	EACH	1.20	40.80	ELEC	\$ 75.14	\$ 90.16	\$ 3,065.54	\$285.00	\$ 9,690.00	\$ -	\$ -	\$ -	\$ -	\$ 375.16	\$ 12,755.54	0.00%	\$ 12,755.54		
26.013	Exterior Light	12	EACH	1.20	14.40	ELEC	\$ 75.14	\$ 90.16	\$ 1,081.96	\$185.00	\$ 2,220.00	\$ -	\$ -	\$ -	\$ -	\$ 275.16	\$ 3,301.96	0.00%	\$ 3,301.96		
26.014	Walkway Pole Light & Base	8	EACH	12.00	96.00	ELEC	\$ 75.14	\$ 901.67	\$ 7,213.40	\$1,800.00	\$ 14,400.00	\$ -	\$ -	\$ -	\$ -	\$ 2,701.67	\$ 21,613.40	0.00%	\$ 21,613.40		
26.015	Room Light LEDs	9	EACH	1.20	10.80	ELEC	\$ 75.14	\$ 90.16	\$ 811.47	\$220.00	\$ 1,980.00	\$ -	\$ -	\$ -	\$ -	\$ 310.16	\$ 2,791.47	0.00%	\$ 2,791.47		
26.016	Exit Sign	5	EACH	1.00	5.00	ELEC	\$ 75.14	\$ 75.14	\$ 375.70	\$225.00	\$ 1,125.00	\$ -	\$ -	\$ -	\$ -	\$ 300.14	\$ 1,500.70	0.00%	\$ 1,500.70		
26.017	Lighting Control	1	ALLOW	30.00	30.00	ELEC	\$ 75.14	\$ 2,254.19	\$ 2,254.19	\$1,000.00	\$ 1,000.00	\$ -	\$ -	\$ -	\$ -	\$ 3,254.19	\$ 3,254.19	0.00%	\$ 3,254.19		
26.018	Emergency Lighting- Tie Into Existing System	1	ALLOW	80.00	80.00	ELEC	\$ 75.14	\$ 6,011.16	\$ 6,011.16	\$2,500.00	\$ 2,500.00	\$ -	\$ -	\$ -	\$ -	\$ 8,511.16	\$ 8,511.16	0.00%	\$ 8,511.16		
26.019	Light Fixture Conduit & Wire	4800	LNFT	0.18	864.00	ELEC	\$ 75.14	\$ 13.53	\$ 64,920.56	\$1.20	\$ 5,760.00	\$ -	\$ -	\$ -	\$ -	\$ 14.73	\$ 70,680.56	0.00%	\$ 70,680.56		
26.020	Duplex Receptacle	19	EACH	0.80	15.20	ELEC	\$ 75.14	\$ 60.11	\$ 1,142.12	\$22.00	\$ 418.00	\$ -	\$ -	\$ -	\$ -	\$ 82.11	\$ 1,560.12	0.00%	\$ 1,560.12		
26.021	Duplex Receptacle GFI	6	EACH	1.00	6.00	ELEC	\$ 75.14	\$ 75.14	\$ 450.84	\$34.00	\$ 204.00	\$ -	\$ -	\$ -	\$ -	\$ 109.14	\$ 654.84	0.00%	\$ 654.84		
26.022	Quad Duplex Receptacle	4	EACH	1.20	4.80	ELEC	\$ 75.14	\$ 90.16	\$ 360.65	\$44.00	\$ 176.00	\$ -	\$ -	\$ -	\$ -	\$ 134.16	\$ 536.65	0.00%	\$ 536.65		
26.023	Duplex Receptacle GFI WP	6	EACH	1.20	7.20	ELEC	\$ 75.14	\$ 90.16	\$ 540.98	\$58.00	\$ 348.00	\$ -	\$ -	\$ -	\$ -	\$ 148.16	\$ 888.98	0.00%	\$ 888.98		
26.024	Receptacle Conduit & Wire	1400	LNFT	0.18	252.00	ELEC	\$ 75.14	\$ 13.53	\$ 18,935.16	\$1.20	\$ 1,680.00	\$ -	\$ -	\$ -	\$ -	\$ 14.73	\$ 20,615.16	0.00%	\$ 20,615.16		
26.025	Existing Etec Demo & Relocation	2	EA	132.00	264.00	ELEC	\$ 75.14	\$ 9,918.42	\$ 19,836.84	\$0.00	\$ -	\$ 1,200.00	\$ 2,400.00	\$ -	\$ -	\$ 11,118.42	\$ 22,236.84	0.00%	\$ 22,236.84		
26.026	Commissioning	1	LS	80.00	80.00	ELEC	\$ 75.14	\$ 6,011.16	\$ 6,011.16	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,011.16	\$ 6,011.16	0.00%	\$ 6,011.16		
26.027	New Signage	1	LS	0.00	0.00	ELEC	\$ 75.14	\$ -	\$ -	\$0.00	\$ -	\$ -	\$ -	\$ 262,500.00	\$ 262,500.00	\$ 262,500.00	\$ 262,500.00	0.00%	\$ 262,500.00		
026 Electrical Total																				\$	603,667.91
027 Communications																					
27.001	Data/Voice Outlet	6	EACH	2.50	15.00	ELEC	\$ 75.14	\$ 187.85	\$ 1,127.09	\$45.00	\$ 270.00	\$ -	\$ -	\$ -	\$ -	\$ 232.85	\$ 1,397.09	0.00%	\$ 1,397.09		
27.002	Data/Voice Outlet Conduit & Wire	900	LNFT	0.18	162.00	ELEC	\$ 75.14	\$ 13.53	\$ 12,172.61	\$1.20	\$ 1,080.00	\$ -	\$ -	\$ -	\$ -	\$ 14.73	\$ 13,252.61	0.00%	\$ 13,252.61		
27.003	Work At IT Existing Rack	1	ALLOW	8.00	8.00	ELEC	\$ 75.14	\$ 601.12	\$ 601.12	\$1,000.00	\$ 1,000.00	\$ -	\$ -	\$ -	\$ -	\$ 1,601.12	\$ 1,601.12	0.00%	\$ 1,601.12		
027 Communications Total																				\$	16,250.81
028 Security Systems																					
28.001	Speaker	29	EACH	2.00	58.00	ELEC	\$ 75.14	\$ 150.28	\$ 4,358.09	\$145.00	\$ 4,205.00	\$ -	\$ -	\$ -	\$ -	\$ 295.28	\$ 8,563.09	0.00%	\$ 8,563.09		
28.002	Sound System Front End Equipment	1	ALLOW	24.02	24.02	ELEC	\$ 75.14	\$ 1,805.15	\$ 1,805.15	\$4,500.00	\$ 4,500.00	\$ -	\$ -	\$ -	\$ -	\$ 6,305.15	\$ 6,305.15	0.00%	\$ 6,305.15		
28.003	Speaker Conduit & Wire	1600	LNFT	0.18	288.00	ELEC	\$ 75.14	\$ 13.53	\$ 21,640.19	\$1.00	\$ 1,600.00	\$ -	\$ -	\$ -	\$ -	\$ 14.53	\$ 23,240.19	0.00%	\$ 23,240.19		
28.004	Camera	17	EACH	4.00	68.00	ELEC	\$ 75.14	\$ 300.56	\$ 5,109.49	\$1,000.00	\$ 17,000.00	\$ -	\$ -	\$ -	\$ -	\$ 1,300.56	\$ 22,109.49	0.00%	\$ 22,109.49		
28.005	Camera Conduit & Wire	2600	LNFT	0.18	468.00	ELEC	\$ 75.14	\$ 13.53	\$ 35,165.30	\$1.20	\$ 3,120.00	\$ -	\$ -	\$ -	\$ -	\$ 14.73	\$ 38,285.30	0.00%	\$ 38,285.30		
28.006	Video Front End Equipment	1	ALLOW	24.02	24.02	ELEC	\$ 75.14	\$ 1,805.15	\$ 1,805.15	\$6,000.00	\$ 6,000.00	\$ -	\$ -	\$ -	\$ -	\$ 7,805.15	\$ 7,805.15	0.00%	\$ 7,805.15		
028 Security Systems Total																				\$	106,308.38
031 Earthwork																					
31.001	Compacted Backfill	64.20	CUYD	0.10	6.42	EOM	\$ 47.80	\$ 4.78	\$ 306.90	\$26.00	\$ 1,669.20	\$ 25.23	\$ 1,619.82	\$ -	\$ -	\$ 56.01	\$ 3,595.92	0.00%	\$ 3,595.92		



AECOM White Flint Station - New North Entrance
 Gulf Tower Location: Montgomery County, MD
 707 Grant Street Client: WMATA
 Pittsburgh, PA 15219

Estimate by: SS 11/11/2019
 Checked by: KS 11/11/2019

13.00 Estimate Detail - Alternate 1

Item #	Description	Quantity	UOM	MH/Unit	Tot. Hours	Crew	\$/MH	Labor	Labor Total	Material	Material Total	Equipment	Equipment Total	Other	Other Total	Unit Cost	Subtotal	Sub Markups	Total Cost	
31.002	Excavation	344.55	CUYD	0.10	34.45	B10M	\$ 45.13	\$ 4.51	\$ 1,554.98	\$0.00	\$ -	\$ 10.00	\$ 3,445.48	\$ -	\$ -	\$ -	14.51	5,000.45	0.00%	\$ 5,000.45
31.003	Pressure Grouting - drilling, grout and pressure pumping	1440.00	VLF	0.50	720.00	B10M	\$ 54.16	\$ 27.08	\$ 38,993.11	\$50.00	\$ 72,000.00	\$ 35.00	\$ 50,400.00	\$ -	\$ -	\$ -	112.08	161,393.11	0.00%	\$ 161,393.11
031 Earthwork Total																			\$	169,989.48
032 Exterior Improvements																				
32.001	Landscaping	1.00	ALLOW	120.00	120.00	LABOR	\$ 39.78	\$ 4,774.17	\$ 4,774.17	\$100,000.00	\$ 100,000.00	\$ 4,300.00	\$ 4,300.00	\$ -	\$ -	\$ -	109,074.17	109,074.17	0.00%	\$ 109,074.17
032 Exterior Improvements Total																			\$	109,074.17
033 Utilities																				
33.001	Utility Relocation	1.00	ALLOW	0.00	0.00	B10M	\$ 45.13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400,000.00	\$ 400,000.00	\$ -	400,000.00	400,000.00	0.00%	\$ 400,000.00
33.002	Fire Protection Piping	9302.79	SF	0.10	930.28	B10M	\$ 45.13	\$ 4.51	\$ 41,984.35	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4.51	41,984.35	0.00%	\$ 41,984.35
033 Utilities Total																			\$	441,984.35
034 Transportation																				
34.001	Ticket Vending Machines (TVM)	8.00	EA	0.00	0.00	B10M	\$ 45.13	\$ -	\$ -	\$160,000.00	\$ 1,280,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	160,000.00	1,280,000.00	0.00%	\$ 1,280,000.00
34.002	Fare Gates	5.00	EA	0.00	0.00	B10M	\$ 45.13	\$ -	\$ -	\$100,000.00	\$ 500,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	100,000.00	500,000.00	0.00%	\$ 500,000.00
34.003	Station Manager Kiosk	1.00	EA	96.00	96.00	B10M	\$ 45.13	\$ 4,332.57	\$ 4,332.57	\$80,000.00	\$ 80,000.00	\$ 1,200.00	\$ 1,200.00	\$ -	\$ -	\$ -	85,532.57	85,532.57	0.00%	\$ 85,532.57
034 Transportation Total																			\$	1,865,532.57
																			\$	9,315,103.49



AECOM
 Gulf Tower
 707 Grant Street
 Pittsburgh, PA 15219

Project: White Flint Station - New North Entrance
 Location: Montgomery County, MD
 Client: WMATA

11/11/2019

Schematic Design

Estimate Summary - Alternate 2

Division	Description	% of Costs	Total
1	General Conditions	0.00%	\$ -
2	Existing Conditions	0.92%	\$ 83,138
3	Concrete	18.33%	\$ 1,652,974
4	Masonry	0.00%	\$ -
5	Metals	1.42%	\$ 128,431
6	Wood, Lumber, and Composites	0.00%	\$ -
7	Thermal and Moisture Protection	2.20%	\$ 197,989
8	Openings	15.62%	\$ 1,408,469
9	Finishes	4.02%	\$ 362,499
10	Specialties	0.00%	\$ -
11	Equipment	0.00%	\$ -
12	Furnishings	0.61%	\$ 55,099
13	Special Construction	0.00%	\$ -
14	Conveying Systems	17.74%	\$ 1,600,000
21	Fire Suppression	0.28%	\$ 25,651
22	Plumbing	3.51%	\$ 316,717
23	Heating, Ventilating, and Air Conditioning	0.41%	\$ 37,000
26	Electrical	6.69%	\$ 603,668
27	Communications	0.18%	\$ 16,251
28	Electronic Safety and Security	1.18%	\$ 106,308
31	Earthwork	0.10%	\$ 8,596
32	Exterior Improvements	1.21%	\$ 109,074
33	Utilities	4.90%	\$ 441,984
34	Transportation	20.68%	\$ 1,865,533
Subtotal			\$ 9,019,382
General Conditions		15.00%	\$ 1,352,907
Security Allowance		3.00%	\$ 270,581
Phasing Requirements		Not Required	0.00% \$ -
Subtotal			\$ 10,642,870
Mid Project Escalation		Included in Summary Comparison	0.00% \$ -
Subtotal			\$ 10,642,870
General Contractor Overhead		10.00%	\$ 1,064,287
General Contractor Profit		10.00%	\$ 1,064,287
Subtotal			\$ 12,771,444
Bonds and Insurance		2.00%	\$ 255,429
Subtotal			\$ 13,026,873
Allocated Contingency		30.00%	\$ 3,908,062
Unallocated Contingency		Included in Summary Comparison	0.00% \$ -
Total Construction Costs			\$ 16,934,935
Professional Services		Included in Summary Comparison	0.00% \$ -
Total Cost			\$ 16,934,935



AECOM White Flint Station - New North Entrance
 Gulf Tower Location: Montgomery County, MD
 707 Grant Street Client: WMATA
 Pittsburgh, PA 15219

Estimate by: SS 11/11/2019
 Checked by: KS 11/11/2019

13.00 Estimate Detail - Alternate 2

Item #	Description	Quantity	UOM	MH/Unit	Tot. Hours	Crew	\$/MH	Labor	Labor Total	Material	Material Total	Equipment	Equipment Total	Other	Other Total	Unit Cost	Total Cost	
001 General Conditions																		
001 General Conditions Total																	\$	-
002 Existing Conditions																		
2.001	Elevator Pits Demo	36.94	CUYD	4.80	177.33	B10M	\$ 45.13	\$ 216.63	\$ 8,003.22	\$ 0.00	\$ -	\$ 134.29	\$ 4,961.11	\$ -	\$ -	\$ 350.91	\$ 12,964.33	
2.002	Existing Slab Demo	6.17	CUYD	4.00	24.67	CONC001	\$ 48.34	\$ 193.37	\$ 1,192.47	\$ 0.00	\$ -	\$ 131.67	\$ 811.94	\$ -	\$ -	\$ 325.04	\$ 2,004.42	
2.003	Existing Pylon Type A-1 Demo	3.00	EA	4.00	12.00	CARP	\$ 49.28	\$ 197.12	\$ 591.35	\$ 0.00	\$ -	\$ 1,300.00	\$ 3,900.00	\$ -	\$ -	\$ 1,497.12	\$ 4,491.35	
2.004	Existing Sheltered Bench Demo	2.00	EA	8.00	16.00	CARP	\$ 49.28	\$ 394.24	\$ 788.47	\$ 0.00	\$ -	\$ 1,300.00	\$ 2,600.00	\$ -	\$ -	\$ 1,694.24	\$ 3,388.47	
2.005	Trackside Safety Fence	1000.00	LF	0.50	500.00	CARP	\$ 49.28	\$ 24.64	\$ 24,639.77	\$ 35.00	\$ 35,000.00	\$ 0.65	\$ 650.00	\$ -	\$ -	\$ 60.29	\$ 60,289.77	
002 Existing Conditions Total																	\$	83,138.34
003 Concrete																		
Mezzanine Level:																		
3.001	Floor - Elevator Mezz Area, 8" depth	76.53	CUYD	5.00	382.67	CONC001	\$ 48.34	\$ 241.72	\$ 18,499.42	\$ 290.12	\$ 22,204.16	\$ 60.00	\$ 4,592.00	\$ -	\$ -	\$ 591.84	\$ 45,295.58	
3.002	Concrete Floor Beams	54.67	CUYD	6.00	328.00	IRON	\$ 76.94	\$ 461.66	\$ 25,237.54	\$ 290.00	\$ 15,853.33	\$ 450.00	\$ 24,600.00	\$ -	\$ -	\$ 1,201.66	\$ 65,690.87	
3.003	Double-Wide 10' Stairs	367.65	SF	0.50	183.82	CONC001	\$ 48.34	\$ 24.17	\$ 8,886.67	\$ 35.00	\$ 12,867.67	\$ 4.29	\$ 1,575.63	\$ -	\$ -	\$ 63.46	\$ 23,329.97	
3.004	Concrete Columns, 2.5' x 2.5'	22.92	CUYD	20.00	458.33	CONC001	\$ 48.34	\$ 966.87	\$ 22,157.41	\$ 290.12	\$ 6,648.68	\$ 200.00	\$ 4,583.33	\$ -	\$ -	\$ 1,456.99	\$ 33,389.42	
3.005	Floor, 12" Slab on grade w/ 4" finish	229.75	CUYD	5.00	1148.74	CONC001	\$ 48.34	\$ 241.72	\$ 55,533.98	\$ 290.12	\$ 66,655.36	\$ 20.00	\$ 4,594.96	\$ -	\$ -	\$ 551.84	\$ 126,784.30	
3.006	Concrete Grade Beams	27.62	CUYD	15.00	414.33	CONC001	\$ 48.34	\$ 725.15	\$ 20,030.30	\$ 290.00	\$ 8,010.44	\$ 205.56	\$ 5,677.90	\$ -	\$ -	\$ 1,220.71	\$ 33,718.64	
3.007	Exterior Walls	32.73	CUYD	10.00	327.33	CONC001	\$ 48.34	\$ 483.43	\$ 15,824.42	\$ 290.12	\$ 9,496.73	\$ 200.00	\$ 6,546.67	\$ -	\$ -	\$ 973.56	\$ 31,867.81	
3.008	8" Interior Walls	54.84	CUYD	10.00	548.44	CONC001	\$ 48.34	\$ 483.43	\$ 26,513.69	\$ 290.12	\$ 15,911.69	\$ 200.00	\$ 10,968.89	\$ -	\$ -	\$ 973.56	\$ 53,394.27	
3.009	6" Interior Walls	18.22	CUYD	10.00	182.17	CONC001	\$ 48.34	\$ 483.43	\$ 8,806.56	\$ 290.12	\$ 5,285.09	\$ 200.00	\$ 3,643.33	\$ -	\$ -	\$ 973.56	\$ 17,734.99	
3.010	Sidewalk	2600.00	SF	0.05	130.00	CONC001	\$ 48.34	\$ 2.42	\$ 6,284.65	\$ 10.00	\$ 26,000.00	\$ 1.09	\$ 2,846.72	\$ -	\$ -	\$ 13.51	\$ 35,131.36	
Platform Level:																		
3.011	Elevator Pits	36.94	CUYD	6.00	221.67	CONC001	\$ 48.34	\$ 290.06	\$ 10,716.13	\$ 290.00	\$ 10,713.89	\$ 50.00	\$ 1,847.22	\$ -	\$ -	\$ 630.06	\$ 23,277.24	
3.012	Drilled Shafts, 48"	84.00	VLF	5.00	420.00	PILE	\$ 64.54	\$ 322.71	\$ 27,107.35	\$ 158.24	\$ 13,292.43	\$ 166.67	\$ 14,000.00	\$ -	\$ -	\$ 647.62	\$ 54,399.77	
3.013	Concrete Columns, 1.5' x 1.5'	3.00	CUYD	18.00	54.00	CONC001	\$ 48.34	\$ 870.18	\$ 2,610.55	\$ 290.12	\$ 870.37	\$ 500.00	\$ 1,500.00	\$ -	\$ -	\$ 1,660.31	\$ 4,980.92	
3.014	Concrete Columns, 2' x 2'	4.89	CUYD	20.00	97.78	CONC001	\$ 48.34	\$ 966.87	\$ 4,726.91	\$ 290.12	\$ 1,418.38	\$ 312.50	\$ 1,527.78	\$ -	\$ -	\$ 1,569.49	\$ 7,673.08	
3.015	Concrete Columns, 2.5' x 2.5'	55.56	CUYD	22.00	1222.22	CONC001	\$ 48.34	\$ 1,063.56	\$ 59,086.42	\$ 290.12	\$ 16,118.00	\$ 136.36	\$ 7,575.76	\$ -	\$ -	\$ 1,490.04	\$ 82,780.18	
3.016	New Canopy Columns	9.00	CUYD	24.00	216.00	CONC001	\$ 48.34	\$ 1,160.24	\$ 10,442.18	\$ 290.12	\$ 2,611.12	\$ 500.00	\$ 4,500.00	\$ -	\$ -	\$ 1,950.37	\$ 17,553.30	
Roof:																		
3.017	Canopy Platform (match exist south canopy)	191.53	CUYD	8.00	1532.21	IRON	\$ 64.12	\$ 512.96	\$ 98,244.84	\$ 290.00	\$ 55,542.55	\$ 150.00	\$ 28,728.91	\$ -	\$ -	\$ 952.96	\$ 182,516.30	
3.018	Canopy Longitudinal Beams	139.42	CUYD	8.00	1115.36	IRON	\$ 64.12	\$ 512.96	\$ 71,516.46	\$ 290.00	\$ 40,431.71	\$ 180.00	\$ 25,095.55	\$ -	\$ -	\$ 982.96	\$ 137,043.72	
3.019	Canopy Primary Beams	36.00	CUYD	6.00	216.00	IRON	\$ 76.94	\$ 461.66	\$ 16,619.84	\$ 290.00	\$ 10,440.00	\$ 350.00	\$ 12,600.00	\$ -	\$ -	\$ 1,101.66	\$ 39,659.84	
3.020	Canopy Secondary Beams	92.56	CUYD	6.50	601.61	IRON	\$ 76.94	\$ 500.13	\$ 46,290.19	\$ 290.00	\$ 26,841.11	\$ 250.00	\$ 23,138.89	\$ -	\$ -	\$ 1,040.13	\$ 96,270.19	
3.021	Mezzanine Roof Framing	529.48	CUYD	7.00	3706.37	IRON	\$ 64.12	\$ 448.84	\$ 237,651.58	\$ 290.00	\$ 153,549.63	\$ 75.00	\$ 39,711.11	\$ -	\$ -	\$ 813.84	\$ 430,912.32	
3.022	Mezzanine Roof Slab, 6"	156.70	CUYD	6.50	1018.55	CONC001	\$ 48.34	\$ 314.23	\$ 49,240.15	\$ 290.00	\$ 45,442.95	\$ 95.00	\$ 14,886.48	\$ -	\$ -	\$ 699.23	\$ 109,569.58	
003 Concrete Total																	\$	1,652,973.65
004 Masonry																		
004 Masonry Total																	\$	-
005 Metals																		
Mezzanine Level:																		
5.001	Stairs Railing	110.29	LF	0.25	27.57	IRON	\$ 64.12	\$ 16.03	\$ 1,768.01	\$ 200.00	\$ 22,058.86	\$ 8.64	\$ 952.54	\$ -	\$ -	\$ 224.67	\$ 24,779.41	
5.002	Balustrades	637.70	SF	0.33	210.44	IRON	\$ 64.12	\$ 21.16	\$ 13,493.43	\$ 125.00	\$ 79,712.50	\$ 6.33	\$ 4,038.77	\$ -	\$ -	\$ 152.49	\$ 97,244.69	
5.003	Fare Gate Railing	30.80	LF	0.13	3.85	IRON	\$ 64.12	\$ 8.01	\$ 246.86	\$ 200.00	\$ 6,160.00	\$ -	\$ -	\$ -	\$ -	\$ 208.01	\$ 6,406.86	
5.004	Bike Storage Facility - Excluded	1.00	LS	0.00	0.00	IRON	\$ 64.12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
005 Metals Total																	\$	128,430.96
006 Wood and Plastics																		
006 Wood and Plastics Total																	\$	-
007 Thermal and Moisture Protection																		
7.001	Waterproofing	9302.79	SF	0.25	2325.70	B10M	\$ 45.13	\$ 11.28	\$ 104,960.86	\$ 10.00	\$ 93,027.90	\$ -	\$ -	\$ -	\$ -	\$ 21.28	\$ 197,988.76	
007 Thermal and Moisture Protection Total																	\$	197,988.76
008 Openings																		
Mezzanine Level:																		
8.001	Elevator #1 Enclosure	1398.25	SF	0.07	93.68	GLAZ	\$ 51.64	\$ 3.46	\$ 4,838.11	\$ 200.00	\$ 279,649.78	\$ 1.06	\$ 1,475.93	\$ -	\$ -	\$ 204.52	\$ 285,963.82	
8.002	Elevator #2 Enclosure	1398.25	SF	0.07	93.68	GLAZ	\$ 51.64	\$ 3.46	\$ 4,838.11	\$ 200.00	\$ 279,649.78	\$ 1.06	\$ 1,475.93	\$ -	\$ -	\$ 204.52	\$ 285,963.82	
8.003	Interior Doors	10.00	EA	9.00	90.00	CARP	\$ 49.28	\$ 443.52	\$ 4,435.16	\$ 4,000.00	\$ 40,000.00	\$ 50.00	\$ 500.00	\$ -	\$ -	\$ 4,493.52	\$ 44,935.16	
8.003	Entry Gates	3.00	EA	24.00	72.00	CARP	\$ 49.28	\$ 1,182.71	\$ 3,548.13	\$ 8,000.00	\$ 24,000.00	\$ 475.00	\$ 1,425.00	\$ -	\$ -	\$ 9,657.71	\$ 28,973.13	
Roof:																		
8.004	Canopy Skylight	1773.71	SF	0.10	177.37	GLAZ	\$ 51.64	\$ 5.16	\$ 9,160.10	\$ 200.00	\$ 354,742.61	\$ 1.58	\$ 2,808.38	\$ -	\$ -	\$ 206.75	\$ 366,711.09	
8.005	Mezzanine Roof Skylight	1915.00	SF	0.10	191.50	GLAZ	\$ 51.64	\$ 5.16	\$ 9,889.75	\$ 200.00	\$ 383,000.00	\$ 1.58	\$ 3,032.08	\$ -	\$ -	\$ 206.75	\$ 395,921.84	
008 Openings Total																	\$	1,408,468.86
009 Finishes																		
9.001	New Mezzanine Finishes	8562.79	SF	0.25	2140.70	TILE	\$ 47.55	\$ 11.89	\$ 101,782.29	\$ 25.00	\$ 214,069.75	\$ -	\$ -	\$ -	\$ -	\$ 36.89	\$ 315,852.04	
9.002	Elevator Machinery Room	150.00	SF	0.80	120.00	TILE	\$ 47.55	\$ 38.04	\$ 5,705.56	\$ 25.00	\$ 3,750.00	\$ -	\$ -	\$ -	\$ -	\$ 63.04	\$ 9,455.56	



AECOM White Flint Station - New North Entrance
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 707 Grant Street Client: WMATA
 Pittsburgh, PA 15219

Estimate by: SS 11/11/2019
 Checked by: KS 11/11/2019

13.00 Estimate Detail - Alternate 2

Item #	Description	Quantity	UOM	MH/Unit	Tot. Hours	Crew	\$/MH	Labor	Labor Total	Material	Material Total	Equipment	Equipment Total	Other	Other Total	Unit Cost	Total Cost
9.003	Electric Room	75.00	SF	0.80	60.00	TILE	\$ 47.55	\$ 38.04	\$ 2,852.78	\$25.00	\$ 1,875.00	\$ -	\$ -	\$ -	\$ -	\$ 63.04	\$ 4,727.78
9.004	Staff & Public Restrooms	430.00	SF	0.80	344.00	TILE	\$ 47.55	\$ 38.04	\$ 16,355.93	\$25.00	\$ 10,750.00	\$ -	\$ -	\$ -	\$ -	\$ 63.04	\$ 27,105.93
9.005	Water Service Room	85.00	SF	0.80	68.00	TILE	\$ 47.55	\$ 38.04	\$ 3,233.15	\$25.00	\$ 2,125.00	\$ -	\$ -	\$ -	\$ -	\$ 63.04	\$ 5,358.15
009 Finishes Total																	
\$ 362,499.47																	
010 Specialities																	
010 Specialities Total																	
\$ -																	
011 Equipment																	
011 Equipment Total																	
\$ -																	
012 Furnishings																	
12.001	Benches	10.00	EA	0.10	1.00	CARP	\$ 49.28	\$ 4.93	\$ 49.28	\$4,000.00	\$ 40,000.00	\$ -	\$ -	\$ -	\$ -	\$ 4,004.93	\$ 40,049.28
12.002	Waste and recycling containers	10.00	EA	0.10	1.00	CARP	\$ 49.28	\$ 4.93	\$ 49.28	\$1,500.00	\$ 15,000.00	\$ -	\$ -	\$ -	\$ -	\$ 1,504.93	\$ 15,049.28
012 Furnishings Total																	
\$ 55,098.56																	
013 Special Construction																	
013 Special Construction Total																	
\$ -																	
014 Conveying Systems																	
14.001	Elevators	2.00	EA	0.00	0.00	B10M	\$ 45.13	\$ -	\$ -	\$800,000.00	\$ 1,600,000.00	\$ -	\$ -	\$ -	\$ -	\$ 800,000.00	\$ 1,600,000.00
014 Conveying Systems Total																	
\$ 1,600,000.00																	
021 Fire Suppression																	
21.001	FA Notification Device	9	EACH	1.20	10.80	ELEC	\$ 75.14	\$ 90.16	\$ 811.47	\$75.00	\$ 675.00	\$ -	\$ -	\$ -	\$ -	\$ 165.16	\$ 1,486.47
21.002	FA Initiation Device	6	EACH	1.20	7.20	ELEC	\$ 75.14	\$ 90.16	\$ 540.98	\$75.00	\$ 450.00	\$ -	\$ -	\$ -	\$ -	\$ 165.16	\$ 990.98
21.003	FA Equipment	1	ALLOW	29.96	29.96	ELEC	\$ 75.14	\$ 2,251.37	\$ 2,251.37	\$3,000.00	\$ 3,000.00	\$ -	\$ -	\$ -	\$ -	\$ 5,251.37	\$ 5,251.37
21.004	Fire Alarm Wiring	2000	LNFT	0.08	160.00	ELEC	\$ 75.14	\$ 6.01	\$ 12,022.33	\$1.00	\$ 2,000.00	\$ -	\$ -	\$ -	\$ -	\$ 7.01	\$ 14,022.33
21.005	FA Test & Check System	1	ALLOW	0.00	0.00	ELEC	\$ 75.14	\$ -	\$ -	\$1,500.00	\$ 1,500.00	\$ -	\$ -	\$ -	\$ -	\$ 1,500.00	\$ 1,500.00
21.006	FA Programing/ Engineering	1	ALLOW	0.00	0.00	ELEC	\$ 75.14	\$ -	\$ -	\$2,400.00	\$ 2,400.00	\$ -	\$ -	\$ -	\$ -	\$ 2,400.00	\$ 2,400.00
021 Fire Suppression Total																	
\$ 25,651.14																	
022 Plumbing																	
22.001	Restrooms	3.00	EA	64.00	192.00	PLUM	\$ 71.88	\$ 4,600.58	\$ 13,801.75	\$8,000.00	\$ 24,000.00	\$ 1,000.00	\$ 3,000.00	\$ -	\$ -	\$ 13,600.58	\$ 40,801.75
22.002	Plumbing	9302.79	SF	0.35	3255.98	PLUM	\$ 71.88	\$ 25.16	\$ 234,053.02	\$4.50	\$ 41,862.56	\$ -	\$ -	\$ -	\$ -	\$ 29.66	\$ 275,915.57
022 Plumbing Total																	
\$ 316,717.32																	
023 HVAC																	
23.001	HVAC	740	SF	0.00	0.00	ELEC	\$ 75.14	\$ -	\$ -	\$ -	\$ -	\$ 50.00	\$ 37,000.00	\$ -	\$ -	\$ 50.00	\$ 37,000.00
023 HVAC Total																	
\$ 37,000.00																	
026 Electrical																	
26.001	Motor Control Center	1	EACH	35.00	35.00	ELEC	\$ 75.14	\$ 2,629.88	\$ 2,629.88	\$24,000.00	\$ 24,000.00	\$ -	\$ -	\$ -	\$ -	\$ 26,629.88	\$ 26,629.88
26.002	Primary Circuit Protection For MCC	1	EACH	12.00	12.00	ELEC	\$ 75.14	\$ 901.67	\$ 901.67	\$5,500.00	\$ 5,500.00	\$ -	\$ -	\$ -	\$ -	\$ 6,401.67	\$ 6,401.67
26.003	MCC Distribution Feeder Conduit & Wire	300	LNFT	0.82	246.00	ELEC	\$ 75.14	\$ 61.62	\$ 18,484.55	\$47.94	\$ 14,382.00	\$ -	\$ -	\$ -	\$ -	\$ 109.56	\$ 32,866.55
26.004	Power For Display Board	7	EACH	14.01	98.07	ELEC	\$ 75.14	\$ 1,052.74	\$ 7,369.20	\$210.00	\$ 1,470.00	\$ -	\$ -	\$ -	\$ -	\$ 1,262.74	\$ 8,839.20
26.005	Power To Elevator	2	EACH	34.93	69.87	ELEC	\$ 75.14	\$ 2,624.96	\$ 5,249.92	\$1,800.00	\$ 3,600.00	\$ -	\$ -	\$ -	\$ -	\$ 4,424.96	\$ 8,849.92
26.006	Power To Elevator Sump Pump	2	EACH	21.00	41.99	ELEC	\$ 75.14	\$ 1,577.73	\$ 3,155.47	\$450.00	\$ 900.00	\$ -	\$ -	\$ -	\$ -	\$ 2,027.73	\$ 4,055.47
26.007	Power To Base Board Heater	8	EACH	15.01	120.08	ELEC	\$ 75.14	\$ 1,127.80	\$ 9,022.38	\$220.00	\$ 1,760.00	\$ -	\$ -	\$ -	\$ -	\$ 1,347.80	\$ 10,782.38
26.008	Power To Ventilation Unit	6	EACH	20.00	120.00	ELEC	\$ 75.14	\$ 1,502.79	\$ 9,016.74	\$400.00	\$ 2,400.00	\$ -	\$ -	\$ -	\$ -	\$ 1,902.79	\$ 11,416.74
26.009	Emergency Power Tie Into Existing System (Elevator, etc.)	1	ALLOW	60.00	60.00	ELEC	\$ 75.14	\$ 4,508.37	\$ 4,508.37	\$2,000.00	\$ 2,000.00	\$ -	\$ -	\$ -	\$ -	\$ 6,508.37	\$ 6,508.37
26.010	Canopy LED Light Fixture	42	EACH	1.20	50.40	ELEC	\$ 75.14	\$ 90.16	\$ 3,786.84	\$385.00	\$ 16,170.00	\$ -	\$ -	\$ -	\$ -	\$ 475.16	\$ 19,956.84
26.011	Platform Edge Light	84	EACH	1.50	126.01	ELEC	\$ 75.14	\$ 112.72	\$ 9,468.15	\$220.00	\$ 18,480.00	\$ -	\$ -	\$ -	\$ -	\$ 332.72	\$ 27,948.15
26.012	North Entrance Mezz Light	34	EACH	1.20	40.80	ELEC	\$ 75.14	\$ 90.16	\$ 3,065.54	\$285.00	\$ 9,690.00	\$ -	\$ -	\$ -	\$ -	\$ 375.16	\$ 12,755.54
26.013	Exterior Light	12	EACH	1.20	14.40	ELEC	\$ 75.14	\$ 90.16	\$ 1,081.96	\$185.00	\$ 2,220.00	\$ -	\$ -	\$ -	\$ -	\$ 275.16	\$ 3,301.96
26.014	Walkway Pole Light & Base	8	EACH	12.00	96.00	ELEC	\$ 75.14	\$ 901.67	\$ 7,213.40	\$1,800.00	\$ 14,400.00	\$ -	\$ -	\$ -	\$ -	\$ 2,701.67	\$ 21,613.40
26.015	Room Light LEDS	9	EACH	1.20	10.80	ELEC	\$ 75.14	\$ 90.16	\$ 811.47	\$220.00	\$ 1,980.00	\$ -	\$ -	\$ -	\$ -	\$ 310.16	\$ 2,791.47
26.016	Exit Sign	5	EACH	1.00	5.00	ELEC	\$ 75.14	\$ 75.14	\$ 375.70	\$225.00	\$ 1,125.00	\$ -	\$ -	\$ -	\$ -	\$ 300.14	\$ 1,500.70
26.017	Lighting Control	1	ALLOW	30.00	30.00	ELEC	\$ 75.14	\$ 2,254.19	\$ 2,254.19	\$1,000.00	\$ 1,000.00	\$ -	\$ -	\$ -	\$ -	\$ 3,254.19	\$ 3,254.19
26.018	Emergency Lighting- Tie Into Existing System	1	ALLOW	80.00	80.00	ELEC	\$ 75.14	\$ 6,011.16	\$ 6,011.16	\$2,500.00	\$ 2,500.00	\$ -	\$ -	\$ -	\$ -	\$ 8,511.16	\$ 8,511.16
26.019	Light Fixture Conduit & Wire	4800	LNFT	0.18	864.00	ELEC	\$ 75.14	\$ 13.53	\$ 64,920.56	\$1.20	\$ 5,760.00	\$ -	\$ -	\$ -	\$ -	\$ 14.73	\$ 70,680.56
26.020	Duplex Receptacle	19	EACH	0.80	15.20	ELEC	\$ 75.14	\$ 60.11	\$ 1,142.12	\$22.00	\$ 418.00	\$ -	\$ -	\$ -	\$ -	\$ 82.11	\$ 1,560.12
26.021	Duplex Receptacle GFI	6	EACH	1.00	6.00	ELEC	\$ 75.14	\$ 75.14	\$ 450.84	\$34.00	\$ 204.00	\$ -	\$ -	\$ -	\$ -	\$ 109.14	\$ 654.84
26.022	Quad Duplex Receptacle	4	EACH	1.20	4.80	ELEC	\$ 75.14	\$ 90.16	\$ 360.65	\$44.00	\$ 176.00	\$ -	\$ -	\$ -	\$ -	\$ 134.16	\$ 536.65
26.023	Duplex Receptacle GFI WP	6	EACH	1.20	7.20	ELEC	\$ 75.14	\$ 90.16	\$ 540.98	\$58.00	\$ 348.00	\$ -	\$ -	\$ -	\$ -	\$ 148.16	\$ 888.98
26.024	Receptacle Conduit & Wire	1400	LNFT	0.18	252.00	ELEC	\$ 75.14	\$ 13.53	\$ 18,935.16	\$1.20	\$ 1,680.00	\$ -	\$ -	\$ -	\$ -	\$ 14.73	\$ 20,615.16
26.025	Existing Etec Demo & Relocation	2	EA	132.00	264.00	ELEC	\$ 75.14	\$ 9,918.42	\$ 19,836.84	\$0.00	\$ -	\$ 1,200.00	\$ 2,400.00	\$ -	\$ -	\$ 11,118.42	\$ 22,236.84
26.026	Commissioning	1	LS	80.00	80.00	ELEC	\$ 75.14	\$ 6,011.16	\$ 6,011.16	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,011.16	\$ 6,011.16
26.027	New Signage	1	LS	0.00	0.00	ELEC	\$ 75.14	\$ -	\$ -	\$0.00	\$ -	\$ -	\$ -	\$ 262,500.00	\$ 262,500.00	\$ 262,500.00	\$ 262,500.00
026 Electrical Total																	
\$ 603,667.91																	
027 Communications																	
27.001	Data/Voice Outlet	6	EACH	2.50	15.00	ELEC	\$ 75.14	\$ 187.85	\$ 1,127.09	\$45.00	\$ 270.00	\$ -	\$ -	\$ -	\$ -	\$ 232.85	\$ 1,397.09



AECOM White Flint Station - New North Entrance
 Gulf Tower Location: Montgomery County, MD
 707 Grant Street Client: WMATA
 Pittsburgh, PA 15219

Estimate by: SS 11/11/2019
 Checked by: KS 11/11/2019

13.00 Estimate Detail - Alternate 2

Item #	Description	Quantity	UOM	MH/Unit	Tot. Hours	Crew	\$/MH	Labor	Labor Total	Material	Material Total	Equipment	Equipment Total	Other	Other Total	Unit Cost	Total Cost
27.002	Data/Voice Outlet Conduit & Wire	900	LNFT	0.18	162.00	ELEC	\$ 75.14	\$ 13.53	\$ 12,172.61	\$1.20	\$ 1,080.00	\$ -	\$ -	\$ -	\$ -	\$ 14.73	\$ 13,252.61
27.003	Work At IT Existing Rack	1	ALLOW	8.00	8.00	ELEC	\$ 75.14	\$ 601.12	\$ 601.12	\$1,000.00	\$ 1,000.00	\$ -	\$ -	\$ -	\$ -	\$ 1,601.12	\$ 1,601.12
027 Communications Total																	
\$ 16,250.81																	
028 Security Systems																	
28.001	Speaker	29	EACH	2.00	58.00	ELEC	\$ 75.14	\$ 150.28	\$ 4,358.09	\$145.00	\$ 4,205.00	\$ -	\$ -	\$ -	\$ -	\$ 295.28	\$ 8,563.09
28.002	Sound System Front End Equipment	1	ALLOW	24.02	24.02	ELEC	\$ 75.14	\$ 1,805.15	\$ 1,805.15	\$4,500.00	\$ 4,500.00	\$ -	\$ -	\$ -	\$ -	\$ 6,305.15	\$ 6,305.15
28.003	Speaker Conduit & Wire	1600	LNFT	0.18	288.00	ELEC	\$ 75.14	\$ 13.53	\$ 21,640.19	\$1.00	\$ 1,600.00	\$ -	\$ -	\$ -	\$ -	\$ 14.53	\$ 23,240.19
28.004	Camera	17	EACH	4.00	68.00	ELEC	\$ 75.14	\$ 300.56	\$ 5,109.49	\$1,000.00	\$ 17,000.00	\$ -	\$ -	\$ -	\$ -	\$ 1,300.56	\$ 22,109.49
28.005	Camera Conduit & Wire	2600	LNFT	0.18	468.00	ELEC	\$ 75.14	\$ 13.53	\$ 35,165.30	\$1.20	\$ 3,120.00	\$ -	\$ -	\$ -	\$ -	\$ 14.73	\$ 38,285.30
28.006	Video Front End Equipment	1	ALLOW	24.02	24.02	ELEC	\$ 75.14	\$ 1,805.15	\$ 1,805.15	\$6,000.00	\$ 6,000.00	\$ -	\$ -	\$ -	\$ -	\$ 7,805.15	\$ 7,805.15
028 Security Systems Total																	
\$ 106,308.38																	
031 Earthwork																	
31.001	Compacted Backfill	64.20	CUYD	0.10	6.42	EOM	\$ 47.80	\$ 4.78	\$ 306.90	\$26.00	\$ 1,669.20	\$ 25.23	\$ 1,619.82	\$ -	\$ -	\$ 56.01	\$ 3,595.92
31.002	Excavation	344.55	CUYD	0.10	34.45	B10M	\$ 45.13	\$ 4.51	\$ 1,554.98	\$0.00	\$ -	\$ 10.00	\$ 3,445.48	\$ -	\$ -	\$ 14.51	\$ 5,000.45
031 Earthwork Total																	
\$ 8,596.37																	
032 Exterior Improvements																	
32.001	Landscaping	1.00	ALLOW	120.00	120.00	LABOR	\$ 39.78	\$ 4,774.17	\$ 4,774.17	\$100,000.00	\$ 100,000.00	\$ 4,300.00	\$ 4,300.00	\$ -	\$ -	\$ 109,074.17	\$ 109,074.17
032 Exterior Improvements Total																	
\$ 109,074.17																	
033 Utilities																	
33.001	Utility Relocation	1.00	ALLOW	0.00	0.00	B10M	\$ 45.13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400,000.00	\$ 400,000.00	\$ 400,000.00	\$ 400,000.00
33.002	Fire Protection Piping	9302.79	SF	0.10	930.28	B10M	\$ 45.13	\$ 4.51	\$ 41,984.35	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4.51	\$ 41,984.35
033 Utilities Total																	
\$ 441,984.35																	
034 Transportation																	
34.001	Ticket Vending Machines (TVM)	8.00	EA	0.00	0.00	B10M	\$ 45.13	\$ -	\$ -	\$160,000.00	\$ 1,280,000.00	\$ -	\$ -	\$ -	\$ -	\$ 160,000.00	\$ 1,280,000.00
34.002	Fare Gates	5.00	EA	0.00	0.00	B10M	\$ 45.13	\$ -	\$ -	\$100,000.00	\$ 500,000.00	\$ -	\$ -	\$ -	\$ -	\$ 100,000.00	\$ 500,000.00
34.003	Station Manager Kiosk	1.00	EA	96.00	96.00	B10M	\$ 45.13	\$ 4,332.57	\$ 4,332.57	\$80,000.00	\$ 80,000.00	\$ 1,200.00	\$ 1,200.00	\$ -	\$ -	\$ 85,532.57	\$ 85,532.57
034 Transportation Total																	
\$ 1,865,532.57																	
\$ 9,019,381.64																	



AECOM
 Gulf Tower
 707 Grant Street
 Pittsburgh, PA 15219

Project: White Flint Station - New North Entrance
 Location: Montgomery County, MD
 Client: WMATA

11/11/2019

Schematic Design

Estimate Summary - Alternate 3

Division	Description	% of Costs	Total	
1	General Conditions	0.00%	\$ -	
2	Existing Conditions	2.85%	\$ 273,074	
3	Concrete	19.60%	\$ 1,876,776	
4	Masonry	0.00%	\$ -	
5	Metals	1.31%	\$ 125,664	
6	Wood, Lumber, and Composites	0.00%	\$ -	
7	Thermal and Moisture Protection	2.19%	\$ 209,534	
8	Openings	15.72%	\$ 1,505,467	
9	Finishes	3.90%	\$ 373,518	
10	Specialties	0.00%	\$ -	
11	Equipment	0.00%	\$ -	
12	Furnishings	0.72%	\$ 69,118	
13	Special Construction	0.00%	\$ -	
14	Conveying Systems	16.71%	\$ 1,600,000	
21	Fire Suppression	0.27%	\$ 25,651	
22	Plumbing	3.40%	\$ 325,577	
23	Heating, Ventilating, and Air Conditioning	0.39%	\$ 37,000	
26	Electrical	6.31%	\$ 603,668	
27	Communications	0.17%	\$ 16,251	
28	Electronic Safety and Security	1.11%	\$ 106,308	
31	Earthwork	0.09%	\$ 8,596	
32	Exterior Improvements	1.14%	\$ 109,074	
33	Utilities	4.63%	\$ 443,332	
34	Transportation	19.49%	\$ 1,865,533	
Subtotal			\$ 9,574,142	
General Conditions		15.00%	\$ 1,436,121	
Security Allowance		3.00%	\$ 287,224	
Phasing Requirements		Not Required	0.00%	\$ -
Subtotal			\$ 11,297,488	
Mid Project Escalation		Included in Summary Comparison	0.00%	\$ -
Subtotal			\$ 11,297,488	
General Contractor Overhead		10.00%	\$ 1,129,749	
General Contractor Profit		10.00%	\$ 1,129,749	
Subtotal			\$ 13,556,985	
Bonds and Insurance		2.00%	\$ 271,140	
Subtotal			\$ 13,828,125	
Allocated Contingency		30.00%	\$ 4,148,437	
Unallocated Contingency		Included in Summary Comparison	0.00%	\$ -
Total Construction Costs			\$ 17,976,562	
Professional Services		Included in Summary Comparison	0.00%	\$ -
Total Cost			\$ 17,976,562	



AECOM White Flint Station - New North Entrance
 Gulf Tower Location: Montgomery County, MD
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 Pittsburgh, PA 15219

Estimate by: SS 11/11/2019
 Checked by: KS 11/11/2019

13.00 Estimate Detail - Alternate 3

Item #	Description	Quantity	UOM	MH/Unit	Tot. Hours	Crew	\$/MH	Labor	Labor Total	Material	Material Total	Equipment	Equipment Total	Other	Other Total	Unit Cost	Subtotal	Sub Markups	Total Cost	
001 General Conditions																				
001 General Conditions Total																				
																			\$	-
002 Existing Conditions																				
2.001	Elevator Pits Demo	36.94	CUYD	4.80	177.33	B10M	\$ 45.13	\$ 216.63	\$ 8,003.22	\$ 0.00	\$ -	\$ 134.29	\$ 4,961.11	\$ -	\$ -	\$ 350.91	\$ 12,964.33	0.00%	\$ 12,964.33	
2.002	Existing Slab Demo	6.17	CUYD	4.00	24.67	CONC001	\$ 48.34	\$ 193.37	\$ 1,192.47	\$ 0.00	\$ -	\$ 131.67	\$ 811.94	\$ -	\$ -	\$ 325.04	\$ 2,004.42	0.00%	\$ 2,004.42	
2.003	Existing Pylon Type A-1 Demo	3.00	EA	4.00	12.00	CARP	\$ 49.28	\$ 197.12	\$ 591.35	\$ 0.00	\$ -	\$ 1,300.00	\$ 3,900.00	\$ -	\$ -	\$ 1,497.12	\$ 4,491.35	0.00%	\$ 4,491.35	
2.004	Existing Sheltered Bench Demo	2.00	EA	8.00	16.00	CARP	\$ 49.28	\$ 394.24	\$ 788.47	\$ 0.00	\$ -	\$ 1,300.00	\$ 2,600.00	\$ -	\$ -	\$ 1,694.24	\$ 3,388.47	0.00%	\$ 3,388.47	
2.005	Trackside Safety Fence	1000.00	LF	0.50	500.00	CARP	\$ 49.28	\$ 24.64	\$ 24,639.77	\$ 35.00	\$ 35,000.00	\$ 0.65	\$ 650.00	\$ -	\$ -	\$ 60.29	\$ 60,289.77	0.00%	\$ 60,289.77	
2.006	Platform Slab Opening - cut & place back once piles, footing and column complete	210.00	SF	0.50	105.00	B10M	\$ 81.20	\$ 40.60	\$ 8,526.26	\$ 30.00	\$ 6,300.00	\$ 33.40	\$ 7,014.00	\$ -	\$ -	\$ 104.00	\$ 21,840.26	0.00%	\$ 21,840.26	
2.007	Core through Invert Slab	70.00	SF	1.20	84.00	B10M	\$ 81.20	\$ 97.44	\$ 6,821.01	\$ 0.00	\$ -	\$ 394.00	\$ 27,580.00	\$ -	\$ -	\$ 491.44	\$ 34,401.01	0.00%	\$ 34,401.01	
2.008	Temporary Shoring btw platform and invert slab	576.00	SF	0.33	190.08	B10M	\$ 81.20	\$ 26.80	\$ 15,434.97	\$ 15.00	\$ 8,640.00	\$ 16.70	\$ 9,619.20	\$ -	\$ -	\$ 58.50	\$ 33,694.17	0.00%	\$ 33,694.17	
2.009	Monitoring of Surrounding Structure	1.00	ALLOW	0.00	0.00	B10M	\$ 81.20	\$ -	\$ -	\$ 0.00	\$ -	\$ -	\$ -	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00	0.00%	\$ 100,000.00	
002 Existing Conditions Total																				
																			\$	273,073.79
003 Concrete																				
Mezzanine Level:																				
3.001	Floor - Elevator Mezz Area, 8" depth	76.53	CUYD	5.00	382.67	CONC001	\$ 48.34	\$ 241.72	\$ 18,499.42	\$ 290.12	\$ 22,204.16	\$ 60.00	\$ 4,592.00	\$ -	\$ -	\$ 591.84	\$ 45,295.58	0.00%	\$ 45,295.58	
3.002	Concrete Floor Beams	54.67	CUYD	6.50	355.33	IRON	\$ 76.94	\$ 500.13	\$ 27,340.67	\$ 290.00	\$ 15,853.33	\$ 350.00	\$ 19,133.33	\$ -	\$ -	\$ 1,140.13	\$ 62,327.33	0.00%	\$ 62,327.33	
3.003	Double-Wide 10' Stairs	367.65	SF	0.50	183.82	CONC001	\$ 48.34	\$ 24.17	\$ 8,886.67	\$ 35.00	\$ 12,867.67	\$ 4.29	\$ 1,575.63	\$ -	\$ -	\$ 63.46	\$ 23,329.97	0.00%	\$ 23,329.97	
3.004	Floor, 12" Slab on grade w/ 4" finish	229.75	CUYD	5.00	1148.74	CONC001	\$ 48.34	\$ 241.72	\$ 55,533.98	\$ 290.12	\$ 66,655.36	\$ 20.00	\$ 4,594.96	\$ -	\$ -	\$ 551.84	\$ 126,784.30	0.00%	\$ 126,784.30	
3.005	Concrete Grade Beams	27.62	CUYD	15.00	414.33	CONC001	\$ 48.34	\$ 725.15	\$ 20,030.30	\$ 290.00	\$ 8,010.44	\$ 205.56	\$ 5,677.90	\$ -	\$ -	\$ 1,220.71	\$ 33,718.64	0.00%	\$ 33,718.64	
3.006	Exterior Walls	38.44	CUYD	10.00	384.44	CONC001	\$ 48.34	\$ 483.43	\$ 18,585.36	\$ 290.12	\$ 11,153.66	\$ 200.00	\$ 7,688.89	\$ -	\$ -	\$ 973.56	\$ 37,427.91	0.00%	\$ 37,427.91	
3.007	8" Interior Walls	77.36	CUYD	10.00	773.58	CONC001	\$ 48.34	\$ 483.43	\$ 37,397.53	\$ 290.12	\$ 22,443.43	\$ 200.00	\$ 15,471.60	\$ -	\$ -	\$ 973.56	\$ 75,312.56	0.00%	\$ 75,312.56	
3.008	6" Interior Walls	34.91	CUYD	10.00	349.07	CONC001	\$ 48.34	\$ 483.43	\$ 16,875.44	\$ 290.12	\$ 10,127.48	\$ 200.00	\$ 6,981.48	\$ -	\$ -	\$ 973.56	\$ 33,984.40	0.00%	\$ 33,984.40	
3.009	Sidewalk	2600.00	SF	0.05	130.00	CONC001	\$ 48.34	\$ 2.42	\$ 6,284.65	\$ 10.00	\$ 26,000.00	\$ 1.09	\$ 2,846.72	\$ -	\$ -	\$ 13.51	\$ 35,131.36	0.00%	\$ 35,131.36	
3.010	Concrete Columns, 2.5' x 2.5'	39.81	CUYD	20.00	796.30	CONC001	\$ 48.34	\$ 966.87	\$ 38,495.70	\$ 290.12	\$ 11,551.24	\$ 200.00	\$ 7,962.96	\$ -	\$ -	\$ 1,456.99	\$ 58,009.90	0.00%	\$ 58,009.90	
3.011	New Canopy Columns	9.00	CUYD	24.00	216.00	CONC001	\$ 48.34	\$ 1,160.24	\$ 10,442.18	\$ 290.00	\$ 2,610.00	\$ 500.00	\$ 4,500.00	\$ -	\$ -	\$ 1,950.24	\$ 17,552.18	0.00%	\$ 17,552.18	
Platform Level:																				
3.012	Elevator Pits	36.94	CUYD	6.00	221.67	CONC001	\$ 48.34	\$ 290.06	\$ 10,716.13	\$ 290.00	\$ 10,713.89	\$ 50.00	\$ 1,847.22	\$ -	\$ -	\$ 630.06	\$ 23,277.24	0.00%	\$ 23,277.24	
3.013	Drilled Shafts, 48"	168.00	VLF	5.00	840.00	PILE	\$ 64.54	\$ 322.71	\$ 54,214.69	\$ 158.24	\$ 26,584.86	\$ 166.67	\$ 28,000.00	\$ -	\$ -	\$ 647.62	\$ 108,799.55	0.00%	\$ 108,799.55	
3.014	Concrete Columns, 1.5' x 1.5'	21.00	CUYD	18.00	378.00	CONC001	\$ 48.34	\$ 870.18	\$ 18,273.82	\$ 290.12	\$ 6,092.61	\$ 500.00	\$ 10,500.00	\$ -	\$ -	\$ 1,660.31	\$ 34,866.42	0.00%	\$ 34,866.42	
3.015	Column Footing Grade Beam, 3'x3'x5' long	10.00	CUYD	20.00	200.00	CONC001	\$ 48.34	\$ 966.87	\$ 9,668.69	\$ 290.00	\$ 2,900.00	\$ 740.00	\$ 7,400.00	\$ -	\$ -	\$ 1,996.87	\$ 19,968.69	0.00%	\$ 19,968.69	
3.016	Micropiles 9" dia.	1440.00	VLF	0.80	1152.00	PILE	\$ 64.54	\$ 51.63	\$ 74,351.58	\$ 90.00	\$ 129,600.00	\$ 47.90	\$ 68,980.65	\$ -	\$ -	\$ 189.54	\$ 272,932.22	0.00%	\$ 272,932.22	
Roof:																				
3.017	Canopy Platform Incline	44.61	CUYD	6.50	289.98	IRON	\$ 64.12	\$ 416.78	\$ 18,593.51	\$ 290.00	\$ 12,937.62	\$ 350.00	\$ 15,614.36	\$ -	\$ -	\$ 1,056.78	\$ 47,145.49	0.00%	\$ 47,145.49	
3.018	Canopy Longitudinal Beams - Incline	32.48	CUYD	6.00	194.85	IRON	\$ 64.12	\$ 384.72	\$ 12,493.83	\$ 290.00	\$ 9,417.82	\$ 310.00	\$ 10,067.33	\$ -	\$ -	\$ 984.72	\$ 31,978.98	0.00%	\$ 31,978.98	
3.019	Canopy Primary Beams	36.00	CUYD	6.00	216.00	IRON	\$ 76.94	\$ 461.66	\$ 16,619.84	\$ 290.00	\$ 10,440.00	\$ 350.00	\$ 12,600.00	\$ -	\$ -	\$ 1,101.66	\$ 39,659.84	0.00%	\$ 39,659.84	
3.020	Canopy Secondary Beams - Incline	19.83	CUYD	5.50	109.08	IRON	\$ 76.94	\$ 423.19	\$ 8,393.28	\$ 290.00	\$ 5,751.67	\$ 350.00	\$ 6,941.67	\$ -	\$ -	\$ 1,063.19	\$ 21,086.61	0.00%	\$ 21,086.61	
3.021	Mezzanine Roof Framing	63.74	CUYD	6.00	382.44	IRON	\$ 64.12	\$ 384.72	\$ 24,522.25	\$ 290.00	\$ 18,484.81	\$ 150.00	\$ 824.72	\$ -	\$ -	\$ 52,568.17	\$ 52,568.17	0.00%	\$ 52,568.17	
3.022	Mezzanine Roof Slab, 6"	72.59	CUYD	6.00	435.56	CONC001	\$ 48.34	\$ 290.06	\$ 21,056.25	\$ 290.00	\$ 21,051.85	\$ 125.00	\$ 9,074.07	\$ -	\$ -	\$ 705.06	\$ 51,182.18	0.00%	\$ 51,182.18	
3.023	Canopy Platform Extension	146.91	CUYD	7.00	1028.40	IRON	\$ 64.12	\$ 448.84	\$ 65,940.45	\$ 290.00	\$ 42,604.94	\$ 180.00	\$ 26,444.44	\$ -	\$ -	\$ 918.84	\$ 134,989.83	0.00%	\$ 134,989.83	
3.024	Canopy Longitudinal Beams	106.94	CUYD	8.00	855.56	IRON	\$ 64.12	\$ 512.96	\$ 54,858.02	\$ 290.00	\$ 31,013.89	\$ 190.00	\$ 20,319.44	\$ -	\$ -	\$ 992.96	\$ 106,191.35	0.00%	\$ 106,191.35	
3.025	Canopy Secondary Beams	72.72	CUYD	6.00	436.33	IRON	\$ 76.94	\$ 461.66	\$ 33,573.11	\$ 290.00	\$ 21,089.44	\$ 280.00	\$ 20,362.22	\$ -	\$ -	\$ 1,031.66	\$ 75,024.77	0.00%	\$ 75,024.77	
3.026	Mezzanine Entrance Roof Framing	258.15	CUYD	6.50	1677.96	IRON	\$ 64.12	\$ 416.78	\$ 107,590.58	\$ 290.00	\$ 74,862.96	\$ 115.00	\$ 29,687.04	\$ -	\$ -	\$ 821.78	\$ 212,140.58	0.00%	\$ 212,140.58	
3.027	Mezzanine Entrance Roof Slab, 6"	136.07	CUYD	8.00	1088.59	CONC001	\$ 48.34	\$ 386.75	\$ 52,626.30	\$ 290.00	\$ 39,461.48	\$ 29.41	\$ 4,002.18	\$ -	\$ -	\$ 706.16	\$ 96,089.96	0.00%	\$ 96,089.96	
003 Concrete Total																				
																			\$	1,876,776.04
004 Masonry																				
004 Masonry Total																				
																			\$	-
005 Metals																				
Mezzanine Level:																				
5.001	Stairs Railing	110.29	LF	0.25	27.57	IRON	\$ 64.12	\$ 16.03	\$ 1,768.01	\$ 200.00	\$ 22,058.86	\$ 8.64	\$ 952.54	\$ -	\$ -	\$ 224.67	\$ 24,779.41	0.00%	\$ 24,779.41	
5.002	Balustrades	637.70	SF	0.33	210.44	IRON	\$ 64.12	\$ 21.16	\$ 13,493.43	\$ 125.00	\$ 79,712.50	\$ 6.33	\$ 4,038.77	\$ -	\$ -	\$ 152.49	\$ 97,244.69	0.00%	\$ 97,244.69	
5.003	Fare Gate Railing	17.50	LF	0.13	2.19	IRON	\$ 64.12	\$ 8.01	\$ 140.26	\$ 200.00	\$ 3,500.00	\$ -	\$ -	\$ -	\$ -	\$ 208.01	\$ 3,640.26	0.00%	\$ 3,640.26	
5.004	Bike Storage Facility - Excluded	1.00	LS	0.00	0.00	IRON	\$ 64.12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%	\$ -	
005 Metals Total																				
																			\$	125,664.36
006 Wood and Plastics																				
006 Wood and Plastics Total																				
																			\$	-
007 Thermal and Moisture Protection																				
7.001	Waterproofing	9601.50	SF	0.25	2400.38	B10M	\$ 45.13	\$ 11.28	\$ 108,331.13	\$ 10.00	\$ 96,015.00	\$ -	\$ -	\$ -	\$ -	\$ 21.28	\$ 204,346.13	0.00%	\$ 204,346.13	
7.002	Waterproofing Seal - micropile and invert slab	70.00	SF	0.68	47.60	B10M	\$ 45.13	\$ 30.69	\$ 2,148.23	\$ 30.00	\$ 2,100.00	\$ 13.43	\$ 940.00	\$ -	\$ -	\$ 74.12	\$ 5,188.23	0.00%	\$ 5,188.23	
007 Thermal and Moisture Protection Total																				
																			\$	209,534.36
008 Openings																				
Mezzanine Level:																				
8.001	Elevator #1 Enclosure	1398.25	SF	0.07	93.68	GLAZ	\$ 51.64	\$ 3.46	\$ 4,838.11	\$ 200.00	\$ 279,649.78	\$ 1.06	\$ 1,475.93	\$ -	\$ -	\$ 204.52	\$ 285,963.82	0.00%	\$ 285,963.82	
8.001	Elevator #2 Enclosure	1398.25	SF	0.07	93.68	GLAZ	\$ 51.64	\$ 3.46	\$ 4,838.11	\$ 200.00	\$ 279,649.78	\$ 1.06	\$ 1,475.93	\$ -	\$ -	\$ 204.52	\$ 285,963.82	0.00%	\$ 285,963.82	
8.003	Interior Doors	10.00	EA	9.00	90.00	CARP	\$ 49.28	\$ 443.52	\$ 4,435.16	\$ 4,000.00	\$ 40,000.00	\$ 50.00	\$ 500.00	\$ -	\$ -	\$ 4,493.52	\$ 44,935.16	0.00%	\$ 44,935.16	
8.003	Entry Gates	3.00	EA	24.00	72.00	CARP	\$ 49.28	\$ 1,182.71	\$ 3,548.13	\$ 8,000.00	\$ 24,000.00	\$ 475.00	\$ 1,425.00	\$ -	\$ -	\$ 9,657.71	\$ 28,973.13			



AECOM White Flint Station - New North Entrance
 Gulf Tower Location: Montgomery County, MD
 707 Grant Street Client: WMATA
 Pittsburgh, PA 15219

Estimate by: SS 11/11/2019
 Checked by: KS 11/11/2019

13.00 Estimate Detail - Alternate 3

Item #	Description	Quantity	UOM	MH/Unit	Tot. Hours	Crew	\$/MH	Labor	Labor Total	Material	Material Total	Equipment	Equipment Total	Other	Other Total	Unit Cost	Subtotal	Sub Markups	Total Cost	
8.006	Mezzanine Roof Skylight	2323.50	SF	0.10	232.35	GLAZ	\$ 51.64	\$ 5.16	\$ 11,999.40	\$200.00	\$ 464,700.00	\$ 1.58	\$ 3,678.88	\$ -	\$ -	\$ -	206.75	\$ 480,378.27	0.00%	\$ 480,378.27
008 Openings Total																				
009 Finishes																				
9.001	New Mezzanine Finishes	8861.50	SF	0.25	2215.38	TILE	\$ 47.55	\$ 11.89	\$ 105,332.93	\$25.00	\$ 221,537.50	\$ -	\$ -	\$ -	\$ -	\$ -	36.89	\$ 326,870.43	0.00%	\$ 326,870.43
9.002	Elevator Machinery Room	150.00	SF	0.80	120.00	TILE	\$ 47.55	\$ 38.04	\$ 5,705.56	\$25.00	\$ 3,750.00	\$ -	\$ -	\$ -	\$ -	\$ -	63.04	\$ 9,455.56	0.00%	\$ 9,455.56
9.003	Electric Room	75.00	SF	0.80	60.00	TILE	\$ 47.55	\$ 38.04	\$ 2,852.78	\$25.00	\$ 1,875.00	\$ -	\$ -	\$ -	\$ -	\$ -	63.04	\$ 4,727.78	0.00%	\$ 4,727.78
9.004	Water Service Room	85.00	SF	0.80	68.00	TILE	\$ 47.55	\$ 38.04	\$ 3,233.15	\$25.00	\$ 2,125.00	\$ -	\$ -	\$ -	\$ -	\$ -	63.04	\$ 5,358.15	0.00%	\$ 5,358.15
9.005	Staff & Public Restrooms	430.00	SF	0.80	344.00	TILE	\$ 47.55	\$ 38.04	\$ 16,355.93	\$25.00	\$ 10,750.00	\$ -	\$ -	\$ -	\$ -	\$ -	63.04	\$ 27,105.93	0.00%	\$ 27,105.93
009 Finishes Total																				
010 Specialities																				
010 Specialities Total																				
011 Equipment																				
011 Equipment Total																				
012 Furnishings																				
12.001	Benches	10.00	EA	0.10	1.00	CARP	\$ 49.28	\$ 4.93	\$ 49.28	\$4,000.00	\$ 40,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	4,004.93	\$ 40,049.28	0.00%	\$ 40,049.28
12.002	Waste and recycling containers	6.00	EA	0.10	0.60	CARP	\$ 49.28	\$ 4.93	\$ 29.57	\$1,500.00	\$ 9,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	1,504.93	\$ 9,029.57	0.00%	\$ 9,029.57
12.003	Bomb-Resistant Receptacle	4.00	EA	0.20	0.80	CARP	\$ 49.28	\$ 9.86	\$ 39.42	\$5,000.00	\$ 20,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	5,009.86	\$ 20,039.42	0.00%	\$ 20,039.42
012 Furnishings Total																				
013 Special Construction																				
013 Special Construction Total																				
014 Conveying Systems																				
14.001	Elevators	2.00	EA	0.00	0.00	B10M	\$ 45.13	\$ -	\$ -	\$800,000.00	\$ 1,600,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	800,000.00	\$ 1,600,000.00	0.00%	\$ 1,600,000.00
014 Conveying Systems Total																				
021 Fire Suppression																				
21.001	FA Notification Device	9	EACH	1.20	10.80	ELEC	\$ 75.14	\$ 90.16	\$ 811.47	\$75.00	\$ 675.00	\$ -	\$ -	\$ -	\$ -	\$ -	165.16	\$ 1,486.47	0.00%	\$ 1,486.47
21.002	FA Initiation Device	6	EACH	1.20	7.20	ELEC	\$ 75.14	\$ 90.16	\$ 540.98	\$75.00	\$ 450.00	\$ -	\$ -	\$ -	\$ -	\$ -	165.16	\$ 990.98	0.00%	\$ 990.98
21.003	FA Equipment	1	ALLOW	29.96	29.96	ELEC	\$ 75.14	\$ 2,251.37	\$ 2,251.37	\$3,000.00	\$ 3,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	5,251.37	\$ 5,251.37	0.00%	\$ 5,251.37
21.004	Fire Alarm Wiring	2000	LNFT	0.08	160.00	ELEC	\$ 75.14	\$ 6.01	\$ 12,022.33	\$1.00	\$ 2,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	7.01	\$ 14,022.33	0.00%	\$ 14,022.33
21.005	FA Test & Check System	1	ALLOW	0.00	0.00	ELEC	\$ 75.14	\$ -	\$ -	\$1,500.00	\$ 1,500.00	\$ -	\$ -	\$ -	\$ -	\$ -	1,500.00	\$ 1,500.00	0.00%	\$ 1,500.00
21.006	FA Programming/ Engineering	1	ALLOW	0.00	0.00	ELEC	\$ 75.14	\$ -	\$ -	\$2,400.00	\$ 2,400.00	\$ -	\$ -	\$ -	\$ -	\$ -	2,400.00	\$ 2,400.00	0.00%	\$ 2,400.00
021 Fire Suppression Total																				
022 Plumbing																				
22.002	Plumbing	9601.50	SF	0.35	3360.53	PLUM	\$ 71.88	\$ 25.16	\$ 241,568.39	\$4.50	\$ 43,206.75	\$ -	\$ -	\$ -	\$ -	\$ -	29.66	\$ 284,775.14	0.00%	\$ 284,775.14
22.001	Restrooms	3.00	EA	64.00	192.00	PLUM	\$ 71.88	\$ 4,600.58	\$ 13,801.75	\$8,000.00	\$ 24,000.00	\$ 1,000.00	\$ 3,000.00	\$ -	\$ -	\$ -	13,600.58	\$ 40,801.75	0.00%	\$ 40,801.75
022 Plumbing Total																				
023 HVAC																				
23.001	HVAC	740	SF	0.00	0.00	ELEC	\$ 75.14	\$ -	\$ -	\$ -	\$ -	\$ 50.00	\$ 37,000.00	\$ -	\$ -	\$ -	50.00	\$ 37,000.00	0.00%	\$ 37,000.00
023 HVAC Total																				
026 Electrical																				
26.001	Motor Control Center	1	EACH	35.00	35.00	ELEC	\$ 75.14	\$ 2,629.88	\$ 2,629.88	\$24,000.00	\$ 24,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	26,629.88	\$ 26,629.88	0.00%	\$ 26,629.88
26.002	Primary Circuit Protection For MCC	1	EACH	12.00	12.00	ELEC	\$ 75.14	\$ 901.67	\$ 901.67	\$5,500.00	\$ 5,500.00	\$ -	\$ -	\$ -	\$ -	\$ -	6,401.67	\$ 6,401.67	0.00%	\$ 6,401.67
26.003	MCC Distribution Feeder Conduit & Wire	300	LNFT	0.82	246.00	ELEC	\$ 75.14	\$ 61.62	\$ 18,484.55	\$47.94	\$ 14,382.00	\$ -	\$ -	\$ -	\$ -	\$ -	109.56	\$ 32,866.55	0.00%	\$ 32,866.55
26.004	Power For Display Board	7	EACH	14.01	98.07	ELEC	\$ 75.14	\$ 1,052.74	\$ 7,369.20	\$210.00	\$ 1,470.00	\$ -	\$ -	\$ -	\$ -	\$ -	1,262.74	\$ 8,839.20	0.00%	\$ 8,839.20
26.005	Power To Elevator	2	EACH	34.93	69.87	ELEC	\$ 75.14	\$ 2,624.96	\$ 5,249.92	\$1,800.00	\$ 3,600.00	\$ -	\$ -	\$ -	\$ -	\$ -	4,424.96	\$ 8,849.92	0.00%	\$ 8,849.92
26.006	Power To Elevator Sump Pump	2	EACH	21.00	41.99	ELEC	\$ 75.14	\$ 1,577.73	\$ 3,155.47	\$450.00	\$ 900.00	\$ -	\$ -	\$ -	\$ -	\$ -	2,027.73	\$ 4,055.47	0.00%	\$ 4,055.47
26.007	Power To Base Board Heater	8	EACH	15.01	120.08	ELEC	\$ 75.14	\$ 1,127.80	\$ 9,022.38	\$220.00	\$ 1,760.00	\$ -	\$ -	\$ -	\$ -	\$ -	1,347.80	\$ 10,782.38	0.00%	\$ 10,782.38
26.008	Power To Ventilation Unit	6	EACH	20.00	120.00	ELEC	\$ 75.14	\$ 1,502.79	\$ 9,016.74	\$400.00	\$ 2,400.00	\$ -	\$ -	\$ -	\$ -	\$ -	1,902.79	\$ 11,416.74	0.00%	\$ 11,416.74
26.009	Emergency Power Tie Into Existing System (Elevator, etc.)	1	ALLOW	60.00	60.00	ELEC	\$ 75.14	\$ 4,508.37	\$ 4,508.37	\$2,000.00	\$ 2,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	6,508.37	\$ 6,508.37	0.00%	\$ 6,508.37
26.010	Canopy LED Light Fixture	42	EACH	1.20	50.40	ELEC	\$ 75.14	\$ 90.16	\$ 3,786.84	\$385.00	\$ 16,170.00	\$ -	\$ -	\$ -	\$ -	\$ -	475.16	\$ 19,956.84	0.00%	\$ 19,956.84
26.011	Platform Edge Light	84	EACH	1.50	126.01	ELEC	\$ 75.14	\$ 112.72	\$ 9,468.15	\$220.00	\$ 18,480.00	\$ -	\$ -	\$ -	\$ -	\$ -	332.72	\$ 27,948.15	0.00%	\$ 27,948.15
26.012	North Entrance Mezz Light	34	EACH	1.20	40.80	ELEC	\$ 75.14	\$ 90.16	\$ 3,065.54	\$285.00	\$ 9,690.00	\$ -	\$ -	\$ -	\$ -	\$ -	375.16	\$ 12,755.54	0.00%	\$ 12,755.54
26.013	Exterior Light	12	EACH	1.20	14.40	ELEC	\$ 75.14	\$ 90.16	\$ 1,081.96	\$185.00	\$ 2,220.00	\$ -	\$ -	\$ -	\$ -	\$ -	275.16	\$ 3,301.96	0.00%	\$ 3,301.96
26.014	Walkway Pole Light & Base	8	EACH	12.00	96.00	ELEC	\$ 75.14	\$ 901.67	\$ 7,213.40	\$1,800.00	\$ 14,400.00	\$ -	\$ -	\$ -	\$ -	\$ -	2,701.67	\$ 21,613.40	0.00%	\$ 21,613.40
26.015	Room Light LEDS	9	EACH	1.20	10.80	ELEC	\$ 75.14	\$ 90.16	\$ 811.47	\$220.00	\$ 1,980.00	\$ -	\$ -	\$ -	\$ -	\$ -	310.16	\$ 2,791.47	0.00%	\$ 2,791.47
26.016	Exit Sign	5	EACH	1.00	5.00	ELEC	\$ 75.14	\$ 75.14	\$ 375.70	\$225.00	\$ 1,125.00	\$ -	\$ -	\$ -	\$ -	\$ -	300.14	\$ 1,500.70	0.00%	\$ 1,500.70
26.017	Lighting Control	1	ALLOW	30.00	30.00	ELEC	\$ 75.14	\$ 2,254.19	\$ 2,254.19	\$1,000.00	\$ 1,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	3,254.19	\$ 3,254.19	0.00%	\$ 3,254.19
26.018	Emergency Lighting- Tie Into Existing System	1	ALLOW	80.00	80.00	ELEC	\$ 75.14	\$ 6,011.16	\$ 6,011.16	\$2,500.00	\$ 2,500.00	\$ -	\$ -	\$ -	\$ -	\$ -	8,511.16	\$ 8,511.16	0.00%	\$ 8,511.16
26.019	Light Fixture Conduit & Wire	4800	LNFT	0.18	864.00	ELEC	\$ 75.14	\$ 13.53	\$ 64,920.56	\$1.20	\$ 5,760.00	\$ -	\$ -	\$ -	\$ -	\$ -	14.73	\$ 70,680.56	0.00%	\$ 70,680.56
26.020	Duplex Receptacle	19	EACH	0.80	15.20	ELEC	\$ 75.14	\$ 60.11	\$ 1,142.12	\$22.00	\$ 418.00	\$ -	\$ -	\$ -	\$ -	\$ -	82.11	\$ 1,560.12	0.00%	\$ 1,560.12
26.021	Duplex Receptacle GFI	6	EACH	1.00	6.00	ELEC	\$ 75.14	\$ 75.14	\$ 450.84	\$34.00	\$ 204.00	\$ -	\$ -	\$ -	\$ -	\$ -	109.14	\$ 654.84	0.00%	\$ 654.84
26.022	Quad Duplex Receptacle	4	EACH	1.20	4.80	ELEC	\$ 75.14	\$ 90.16	\$ 360.65	\$44.00	\$ 176.00	\$ -	\$ -	\$ -	\$ -	\$ -	134.16	\$ 536.65	0.00%	\$ 536.65
26.023	Duplex Receptacle GFI WP	6	EACH	1.20	7.20	ELEC	\$ 75.14	\$ 90.16	\$ 540.98	\$58.00	\$ 348.00	\$ -	\$ -	\$ -	\$ -	\$ -	148.16	\$ 888.98	0.00%	\$ 888.98
26.024	Receptacle Conduit & Wire	1400	LNFT	0.18	252.00	ELEC	\$ 75.14	\$ 13.53	\$ 18,935.16	\$1.20	\$ 1,680.00	\$ -	\$ -	\$ -	\$ -	\$ -	14.73	\$ 20,615.16	0.00%	\$ 20,615.16
26.025	Existing Etec Demo & Relocation	2	EA	132.00	264.00	ELEC	\$ 75.14	\$ 9,918.42	\$ 19,836.84	\$0.00	\$ -	\$ 1,200.00	\$ 2,400.00	\$ -	\$ -	\$ -	11,118.42	\$ 22,236.84	0.00%	\$ 22,236.84
26.026	Commissioning	1	LS	80.00	80.00	ELEC	\$ 75.14	\$ 6,011.16	\$ 6,011.16	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	6,011.16	\$ 6,011.16	0.00%	\$ 6,011.16
26.027	New Signage	1	LS	0.00	0.00	ELEC	\$ 75.14	\$ -	\$ -	\$0.00	\$ -	\$ -	\$ -	\$ 262,500.00	\$ 262,500.00	\$ 262,500.00	262,500.00	\$ 262,500.00	0.00%	\$ 262,500.00
026 Electrical Total																				
027 Communications																				
27.001	Data/Voice Outlet	6	EACH	2.50	15.00	ELEC	\$ 75.14	\$ 187.85	\$ 1,127.09	\$45.00	\$ 270.00	\$ -	\$ -	\$ -	\$ -	\$ -	232.85	\$ 1,397.09	0.00%	\$ 1,397.09
27.002	Data/Voice Outlet Conduit & Wire	900	LNFT	0.18	162.00	ELEC	\$ 75.14	\$ 13.53	\$ 12,172.61	\$1.20	\$ 1,080.00	\$ -	\$ -							



AECOM White Flint Station - New North Entrance
 Gulf Tower Location: Montgomery County, MD
 707 Grant Street Client: WMATA
 Pittsburgh, PA 15219

Estimate by: SS 11/11/2019
 Checked by: KS 11/11/2019

13.00 Estimate Detail - Alternate 3

Item #	Description	Quantity	UOM	MH/Unit	Tot. Hours	Crew	\$/MH	Labor	Labor Total	Material	Material Total	Equipment	Equipment Total	Other	Other Total	Unit Cost	Subtotal	Sub Markups	Total Cost	
028 Security Systems																				
28.001	Speaker	29	EACH	2.00	58.00	ELEC	\$ 75.14	\$ 150.28	\$ 4,358.09	\$145.00	\$ 4,205.00	\$ -	\$ -	\$ -	\$ -	\$ -	295.28	\$ 8,563.09	0.00%	\$ 8,563.09
28.002	Sound System Front End Equipment	1	ALLOW	24.02	24.02	ELEC	\$ 75.14	\$ 1,805.15	\$ 1,805.15	\$4,500.00	\$ 4,500.00	\$ -	\$ -	\$ -	\$ -	\$ -	6,305.15	\$ 6,305.15	0.00%	\$ 6,305.15
28.003	Speaker Conduit & Wire	1600	LNFT	0.18	288.00	ELEC	\$ 75.14	\$ 13.53	\$ 21,640.19	\$1.00	\$ 1,600.00	\$ -	\$ -	\$ -	\$ -	\$ -	14.53	\$ 23,240.19	0.00%	\$ 23,240.19
28.004	Camera	17	EACH	4.00	68.00	ELEC	\$ 75.14	\$ 300.56	\$ 5,109.49	\$1,000.00	\$ 17,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	1,300.56	\$ 22,109.49	0.00%	\$ 22,109.49
28.005	Camera Conduit & Wire	2600	LNFT	0.18	468.00	ELEC	\$ 75.14	\$ 13.53	\$ 35,165.30	\$1.20	\$ 3,120.00	\$ -	\$ -	\$ -	\$ -	\$ -	14.73	\$ 38,285.30	0.00%	\$ 38,285.30
28.006	Video Front End Equipment	1	ALLOW	24.02	24.02	ELEC	\$ 75.14	\$ 1,805.15	\$ 1,805.15	\$6,000.00	\$ 6,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	7,805.15	\$ 7,805.15	0.00%	\$ 7,805.15
028 Security Systems Total																			\$	106,308.38
031 Earthwork																				
31.001	Compacted Backfill	64.20	CUYD	0.10	6.42	EOM	\$ 47.80	\$ 4.78	\$ 306.90	\$26.00	\$ 1,669.20	\$ 25.23	\$ 1,619.82	\$ -	\$ -	\$ -	56.01	\$ 3,595.92	0.00%	\$ 3,595.92
31.002	Excavation	344.55	CUYD	0.10	34.45	B10M	\$ 45.13	\$ 4.51	\$ 1,554.98	\$0.00	\$ -	\$ 10.00	\$ 3,445.48	\$ -	\$ -	\$ -	14.51	\$ 5,000.45	0.00%	\$ 5,000.45
31.003	Pressure Grouting - drilling, grout and pressure pumping	1440.00	VLF	0.50	720.00	B10M	\$ 54.16	\$ 27.08	\$ 38,993.11	\$50.00	\$ 72,000.00	\$ 35.00	\$ 50,400.00	\$ -	\$ -	\$ -	112.08	\$ 161,393.11	0.00%	\$ 161,393.11
031 Earthwork Total																			\$	8,596.37
032 Exterior Improvements																				
32.001	Landscaping	1.00	ALLOW	120.00	120.00	LABOR	\$ 39.78	\$ 4,774.17	\$ 4,774.17	\$100,000.00	\$ 100,000.00	\$ 4,300.00	\$ 4,300.00	\$ -	\$ -	\$ -	109,074.17	\$ 109,074.17	0.00%	\$ 109,074.17
032 Exterior Improvements Total																			\$	109,074.17
033 Utilities																				
33.001	Utility Relocation	1.00	ALLOW	0.00	0.00	B10M	\$ 45.13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400,000.00	\$ 400,000.00	\$ 400,000.00	\$ 400,000.00	0.00%	\$ 400,000.00	
33.002	Fire Protection Piping	9601.50	SF	0.10	960.15	B10M	\$ 45.13	\$ 4.51	\$ 43,332.45	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	4.51	\$ 43,332.45	0.00%	\$ 43,332.45
033 Utilities Total																			\$	443,332.45
034 Transportation																				
34.001	Ticket Vending Machines (TVM)	8.00	EA	0.00	0.00	B10M	\$ 45.13	\$ -	\$ -	\$160,000.00	\$ 1,280,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	160,000.00	\$ 1,280,000.00	0.00%	\$ 1,280,000.00
34.002	Station Manager Kiosk	1.00	EA	96.00	96.00	B10M	\$ 45.13	\$ 4,332.57	\$ 4,332.57	\$80,000.00	\$ 80,000.00	\$ 1,200.00	\$ 1,200.00	\$ -	\$ -	\$ -	85,532.57	\$ 85,532.57	0.00%	\$ 85,532.57
34.003	Fare Gates	5.00	EA	0.00	0.00	B10M	\$ 45.13	\$ -	\$ -	\$100,000.00	\$ 500,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	100,000.00	\$ 500,000.00	0.00%	\$ 500,000.00
034 Transportation Total																			\$	1,865,532.57
																			\$	9,574,142.08



AECOM
 Gulf Tower
 707 Grant Street
 Pittsburgh, PA 15219

Project: White Flint Station - New North Entrance
 Location: Montgomery County, MD
 Client: WMATA

11/11/2019

Schematic Design

Estimate Summary - Alternate 3 (Phase I)

Division	Description	% of Costs	Total	
1	General Conditions	0.00%	\$ -	
2	Existing Conditions	2.99%	\$ 273,074	
3	Concrete	16.92%	\$ 1,543,018	
4	Masonry	0.00%	\$ -	
5	Metals	1.38%	\$ 125,664	
6	Wood, Lumber, and Composites	0.00%	\$ -	
7	Thermal and Moisture Protection	2.30%	\$ 209,534	
8	Openings	13.41%	\$ 1,222,609	
9	Finishes	4.10%	\$ 373,518	
10	Specialties	0.00%	\$ -	
11	Equipment	0.00%	\$ -	
12	Furnishings	0.76%	\$ 69,118	
13	Special Construction	0.00%	\$ -	
14	Conveying Systems	17.55%	\$ 1,600,000	
21	Fire Suppression	0.28%	\$ 25,651	
22	Plumbing	3.57%	\$ 325,577	
23	Heating, Ventilating, and Air Conditioning	0.41%	\$ 37,000	
26	Electrical	6.62%	\$ 603,668	
27	Communications	0.18%	\$ 16,251	
28	Electronic Safety and Security	1.17%	\$ 106,308	
31	Earthwork	1.86%	\$ 169,989	
32	Exterior Improvements	1.20%	\$ 109,074	
33	Utilities	4.86%	\$ 443,332	
34	Transportation	20.46%	\$ 1,865,533	
Subtotal			\$ 9,118,919	
General Conditions		15.00%	\$ 1,367,838	
Security Allowance		3.00%	\$ 273,568	
Phasing Requirements		Not Required	0.00%	\$ -
Subtotal			\$ 10,760,325	
Mid Project Escalation		Included in Summary Comparison	0.00%	\$ -
Subtotal			\$ 10,760,325	
General Contractor Overhead		10.00%	\$ 1,076,032	
General Contractor Profit		10.00%	\$ 1,076,032	
Subtotal			\$ 12,912,390	
Bonds and Insurance		2.00%	\$ 258,248	
Subtotal			\$ 13,170,638	
Allocated Contingency		30.00%	\$ 3,951,191	
Unallocated Contingency		Included in Summary Comparison	0.00%	\$ -
Total Construction Costs			\$ 17,121,829	
Professional Services		Included in Summary Comparison	0.00%	\$ -
Total Cost			\$ 17,121,829	



AECOM White Flint Station - New North Entrance
 Gulf Tower Location: Montgomery County, MD
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 Pittsburgh, PA 15219

Estimate by: SS 11/11/2019
 Checked by: KS 11/11/2019

13.00 Estimate Detail - Alternate 3 (Phase I)

Item #	Description	Quantity	UOM	MH/Unit	Tot. Hours	Crew	\$/MH	Labor	Labor Total	Material	Material Total	Equipment	Equipment Total	Other	Other Total	Unit Cost	Subtotal	Sub Markups	Total Cost
001 General Conditions																			
001 General Conditions Total																			\$
002 Existing Conditions																			
2.001	Elevator Pit Demo	36.94	CUYD	4.80	177.33	B10M	\$ 45.13	\$ 216.63	\$ 8,003.22	\$0.00	\$ -	\$ 134.29	\$ 4,961.11	\$ -	\$ -	\$ 350.91	\$ 12,964.33	0.00%	\$ 12,964.33
2.002	Existing Slab Demo	6.17	CUYD	4.00	24.67	CONC001	\$ 48.34	\$ 193.37	\$ 1,192.47	\$0.00	\$ -	\$ 131.67	\$ 811.94	\$ -	\$ -	\$ 325.04	\$ 2,004.42	0.00%	\$ 2,004.42
2.003	Existing Pylon Type A-1 Demo	3.00	EA	4.00	12.00	CARP	\$ 49.28	\$ 197.12	\$ 591.35	\$0.00	\$ -	\$ 1,300.00	\$ 3,900.00	\$ -	\$ -	\$ 1,497.12	\$ 4,491.35	0.00%	\$ 4,491.35
2.004	Existing Sheltered Bench Demo	2.00	EA	8.00	16.00	CARP	\$ 49.28	\$ 394.24	\$ 788.47	\$0.00	\$ -	\$ 1,300.00	\$ 2,600.00	\$ -	\$ -	\$ 1,694.24	\$ 3,388.47	0.00%	\$ 3,388.47
2.005	Trackside Safety Fence	1000.00	LF	0.50	500.00	CARP	\$ 49.28	\$ 24.64	\$ 24,639.77	\$35.00	\$ 35,000.00	\$ 0.65	\$ 650.00	\$ -	\$ -	\$ 60.29	\$ 60,289.77	0.00%	\$ 60,289.77
2.006	Platform Slab Opening - cut & place back once piles, footing and column complete	210.00	SF	0.50	105.00	B10M	\$ 81.20	\$ 40.60	\$ 8,526.26	\$30.00	\$ 6,300.00	\$ 33.40	\$ 7,014.00	\$ -	\$ -	\$ 104.00	\$ 21,840.26	0.00%	\$ 21,840.26
2.007	Core through Invert Slab	70.00	SF	1.20	84.00	B10M	\$ 81.20	\$ 97.44	\$ 6,821.01	\$0.00	\$ -	\$ 394.00	\$ 27,580.00	\$ -	\$ -	\$ 491.44	\$ 34,401.01	0.00%	\$ 34,401.01
2.008	Temporary Shoring btw platform and invert slab	576.00	SF	0.33	190.08	B10M	\$ 81.20	\$ 26.80	\$ 15,434.97	\$15.00	\$ 8,640.00	\$ 16.70	\$ 9,619.20	\$ -	\$ -	\$ 58.50	\$ 33,694.17	0.00%	\$ 33,694.17
2.009	Monitoring of Surrounding Structure	1.00	ALLOW	0.00	0.00	B10M	\$ 81.20	\$ -	\$ -	\$0.00	\$ -	\$ -	\$ -	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00	0.00%	\$ 100,000.00
002 Existing Conditions Total																			\$
003 Concrete																			
Mezzanine Level:																			
3.001	Floor - Elevator Mezz Area, 8" depth	76.53	CUYD	5.00	382.67	CONC001	\$ 48.34	\$ 241.72	\$ 18,499.42	\$290.12	\$ 22,204.16	\$ 60.00	\$ 4,592.00	\$ -	\$ -	\$ 591.84	\$ 45,295.58	0.00%	\$ 45,295.58
3.002	Concrete Floor Beams	54.67	CUYD	6.50	355.33	IRON	\$ 76.94	\$ 500.13	\$ 27,340.67	\$290.00	\$ 15,853.33	\$ 350.00	\$ 19,133.33	\$ -	\$ -	\$ 1,140.13	\$ 62,327.33	0.00%	\$ 62,327.33
3.003	Double-Wide 10' Stairs	367.65	SF	0.50	183.82	CONC001	\$ 48.34	\$ 24.17	\$ 8,886.67	\$35.00	\$ 12,867.67	\$ 4.29	\$ 1,575.63	\$ -	\$ -	\$ 63.46	\$ 23,329.97	0.00%	\$ 23,329.97
3.004	Floor, 12" Slab on grade w/ 4" finish	229.75	CUYD	5.00	1148.74	CONC001	\$ 48.34	\$ 241.72	\$ 55,533.98	\$290.12	\$ 66,655.36	\$ 20.00	\$ 4,594.96	\$ -	\$ -	\$ 551.84	\$ 126,784.30	0.00%	\$ 126,784.30
3.005	Concrete Grade Beams	27.62	CUYD	15.00	414.33	CONC001	\$ 48.34	\$ 725.15	\$ 20,030.30	\$290.00	\$ 8,010.44	\$ 205.56	\$ 5,677.90	\$ -	\$ -	\$ 1,220.71	\$ 33,718.64	0.00%	\$ 33,718.64
3.006	Exterior Walls	38.44	CUYD	10.00	384.44	CONC001	\$ 48.34	\$ 483.43	\$ 18,585.36	\$290.12	\$ 11,153.66	\$ 200.00	\$ 7,688.89	\$ -	\$ -	\$ 973.56	\$ 37,427.91	0.00%	\$ 37,427.91
3.007	8" Interior Walls	77.36	CUYD	10.00	773.58	CONC001	\$ 48.34	\$ 483.43	\$ 37,397.53	\$290.12	\$ 22,443.43	\$ 200.00	\$ 15,471.60	\$ -	\$ -	\$ 973.56	\$ 75,312.56	0.00%	\$ 75,312.56
3.008	6" Interior Walls	34.91	CUYD	10.00	349.07	CONC001	\$ 48.34	\$ 483.43	\$ 16,875.44	\$290.12	\$ 10,127.48	\$ 200.00	\$ 6,981.48	\$ -	\$ -	\$ 973.56	\$ 33,984.40	0.00%	\$ 33,984.40
3.009	Sidewalk	2600.00	SF	0.05	130.00	CONC001	\$ 48.34	\$ 2.42	\$ 6,284.65	\$10.00	\$ 26,000.00	\$ 1.09	\$ 2,846.72	\$ -	\$ -	\$ 13.51	\$ 35,131.36	0.00%	\$ 35,131.36
3.010	Concrete Columns, 2.5' x 2.5'	39.81	CUYD	20.00	796.30	CONC001	\$ 48.34	\$ 966.87	\$ 38,495.70	\$290.12	\$ 11,551.24	\$ 200.00	\$ 7,962.96	\$ -	\$ -	\$ 1,456.99	\$ 58,009.90	0.00%	\$ 58,009.90
Platform Level:																			
3.010	Elevator Pits	36.94	CUYD	6.00	221.67	CONC001	\$ 48.34	\$ 290.06	\$ 10,716.13	\$290.00	\$ 10,713.89	\$ 50.00	\$ 1,847.22	\$ -	\$ -	\$ 630.06	\$ 23,277.24	0.00%	\$ 23,277.24
3.011	Drilled Shafts, 48"	168.00	VLF	5.00	840.00	PILE	\$ 64.54	\$ 322.71	\$ 54,214.69	\$158.24	\$ 26,584.86	\$ 166.67	\$ 28,000.00	\$ -	\$ -	\$ 647.62	\$ 108,799.55	0.00%	\$ 108,799.55
3.012	Concrete Columns, 1.5' x 1.5'	21.00	CUYD	18.00	378.00	CONC001	\$ 48.34	\$ 870.18	\$ 18,273.82	\$290.12	\$ 6,092.61	\$ 500.00	\$ 10,500.00	\$ -	\$ -	\$ 1,660.31	\$ 34,866.42	0.00%	\$ 34,866.42
3.013	Column Footing Grade Beam, 3'x3'x5' long	10.00	CUYD	20.00	200.00	CONC001	\$ 48.34	\$ 966.87	\$ 9,668.69	\$290.00	\$ 2,900.00	\$ 740.00	\$ 7,400.00	\$ -	\$ -	\$ 1,996.87	\$ 19,968.69	0.00%	\$ 19,968.69
3.014	Micropiles 9" dia.	1440.00	VLF	0.80	1152.00	PILE	\$ 64.54	\$ 51.63	\$ 74,351.58	\$90.00	\$ 129,600.00	\$ 47.90	\$ 68,980.65	\$ -	\$ -	\$ 189.54	\$ 272,932.22	0.00%	\$ 272,932.22
Roof:																			
3.015	Canopy Platform Incline	44.61	CUYD	6.50	289.98	IRON	\$ 64.12	\$ 416.78	\$ 18,593.51	\$290.00	\$ 12,937.62	\$ 350.00	\$ 15,614.36	\$ -	\$ -	\$ 1,056.78	\$ 47,145.49	0.00%	\$ 47,145.49
3.016	Canopy Longitudinal Beams - Incline	32.48	CUYD	6.00	194.85	IRON	\$ 64.12	\$ 384.72	\$ 12,493.83	\$290.00	\$ 9,417.82	\$ 310.00	\$ 10,067.33	\$ -	\$ -	\$ 984.72	\$ 31,978.98	0.00%	\$ 31,978.98
3.017	Canopy Primary Beams	36.00	CUYD	6.00	216.00	IRON	\$ 76.94	\$ 461.66	\$ 16,619.84	\$290.00	\$ 10,440.00	\$ 350.00	\$ 12,600.00	\$ -	\$ -	\$ 1,101.66	\$ 39,659.84	0.00%	\$ 39,659.84
3.018	Canopy Secondary Beams - Incline	19.83	CUYD	5.50	109.08	IRON	\$ 76.94	\$ 423.19	\$ 8,393.28	\$290.00	\$ 5,751.67	\$ 350.00	\$ 6,941.67	\$ -	\$ -	\$ 1,063.19	\$ 21,086.61	0.00%	\$ 21,086.61
3.019	Mezzanine Roof Framing	63.74	CUYD	6.00	382.44	IRON	\$ 64.12	\$ 384.72	\$ 24,522.25	\$290.00	\$ 18,484.81	\$ 150.00	\$ 9,561.11	\$ -	\$ -	\$ 824.72	\$ 52,568.17	0.00%	\$ 52,568.17
3.020	Mezzanine Roof Slab, 6"	72.59	CUYD	6.00	435.56	CONC001	\$ 48.34	\$ 290.06	\$ 21,056.25	\$290.00	\$ 21,051.85	\$ 125.00	\$ 9,074.07	\$ -	\$ -	\$ 705.06	\$ 51,182.18	0.00%	\$ 51,182.18
3.021	Mezzanine Entrance Roof Framing	258.15	CUYD	6.50	1677.96	IRON	\$ 64.12	\$ 416.78	\$ 107,590.58	\$290.00	\$ 74,862.96	\$ 115.00	\$ 29,687.04	\$ -	\$ -	\$ 821.78	\$ 212,140.58	0.00%	\$ 212,140.58
3.022	Mezzanine Entrance Roof Slab, 6"	136.07	CUYD	8.00	1088.59	CONC001	\$ 48.34	\$ 386.75	\$ 52,626.30	\$290.00	\$ 39,461.48	\$ 29.41	\$ 4,002.18	\$ -	\$ -	\$ 706.16	\$ 96,089.96	0.00%	\$ 96,089.96
003 Concrete Total																			\$
004 Masonry																			
004 Masonry Total																			\$
005 Metals																			
Mezzanine Level:																			
5.001	Stairs Railing	110.29	LF	0.25	27.57	IRON	\$ 64.12	\$ 16.03	\$ 1,768.01	\$200.00	\$ 22,058.86	\$ 8.64	\$ 952.54	\$ -	\$ -	\$ 224.67	\$ 24,779.41	0.00%	\$ 24,779.41
5.002	Balustrades	637.70	SF	0.33	210.44	IRON	\$ 64.12	\$ 21.16	\$ 13,493.43	\$125.00	\$ 79,712.50	\$ 6.33	\$ 4,038.77	\$ -	\$ -	\$ 152.49	\$ 97,244.69	0.00%	\$ 97,244.69
5.003	Fare Gate Railing	17.50	LF	0.13	2.19	IRON	\$ 64.12	\$ 8.01	\$ 140.26	\$200.00	\$ 3,500.00	\$ -	\$ -	\$ -	\$ -	\$ 208.01	\$ 3,640.26	0.00%	\$ 3,640.26
5.004	Bike Storage Facility - Excluded	1.00	LS	0.00	0.00	IRON	\$ 64.12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%	\$ -
005 Metals Total																			\$
006 Wood and Plastics																			
006 Wood and Plastics Total																			\$
007 Thermal and Moisture Protection																			
7.001	Waterproofing	9601.50	SF	0.25	2400.38	B10M	\$ 45.13	\$ 11.28	\$ 108,331.13	\$10.00	\$ 96,015.00	\$ -	\$ -	\$ -	\$ -	\$ 21.28	\$ 204,346.13	0.00%	\$ 204,346.13
7.002	Waterproofing Seal - micropile and invert slab	70.00	SF	0.68	47.60	B10M	\$ 45.13	\$ 30.69	\$ 2,148.23	\$30.00	\$ 2,100.00	\$ 13.43	\$ 940.00	\$ -	\$ -	\$ 74.12	\$ 5,188.23	0.00%	\$ 5,188.23
007 Thermal and Moisture Protection Total																			\$
008 Openings																			
Mezzanine Level:																			
8.001	Elevator #1 Enclosure	1398.25	SF	0.07	93.68	GLAZ	\$ 51.64	\$ 3.46	\$ 4,838.11	\$200.00	\$ 279,649.78	\$ 1.06	\$ 1,475.93	\$ -	\$ -	\$ 204.52	\$ 285,963.82	0.00%	\$ 285,963.82
8.002	Elevator #2 Enclosure	1398.25	SF	0.07	93.68	GLAZ	\$ 51.64	\$ 3.46	\$ 4,838.11	\$200.00	\$ 279,649.78	\$ 1.06	\$ 1,475.93	\$ -	\$ -	\$ 204.52	\$ 285,963.82	0.00%	\$ 285,963.82
8.003	Interior Doors	10.00	EA	9.00	90.00	CARP	\$ 49.28	\$ 443.52	\$ 4,435.16	\$4,000.00	\$ 40,000.00	\$ 50.00	\$ 500.00	\$ -	\$ -	\$ 4,493.52	\$ 44,935.16	0.00%	\$ 44,935.16
8.003	Entry Gates	3.00	EA	24.00	72.00	CARP	\$ 49.28	\$ 1,182.71	\$ 3,548.13	\$8,000.00	\$ 24,000.00	\$ 475.00	\$ 1,425.00	\$ -	\$ -	\$ 9,657.71	\$ 28,973.13	0.00%	\$ 28,973.13
8.004	Swing Gate	2	EA	8.00	16.00	B10M	\$ 45.13	\$ 361.05	\$ 722.09	\$2,500.00	\$ 5,000.00	\$ 50.00	\$ 100.00	\$ -	\$ -	\$ 2,911.05	\$ 5,822.09	0.00%	\$ 5,822.09
Roof:																			
8.005	Canopy Skylight - Incline	438.08	SF	0.10	43.81	GLAZ	\$ 51.64	\$ 5.16	\$ 2,262.42	\$200.00	\$ 87,616.71	\$ 1.58	\$ 693.63	\$ -	\$ -	\$ 206.75	\$ 90,572.76	0.00%	\$ 90,572.76
8.006	Mezzanine Roof Skylight	2323.50	SF	0.10	232.35	GLAZ	\$ 51.64	\$ 5.16	\$ 11,999.40	\$200.00	\$ 464,700.00	\$ 1.58	\$ 3,678.88	\$ -	\$ -	\$ 206.75	\$ 480,378.27	0.00%	\$ 480,378.27
008 Openings Total																			\$
009 Finishes																			
9.001	New Mezzanine Finishes	8861.50	SF	0.25	2215.38	TILE	\$ 47.55	\$ 11.89	\$ 105,332.93	\$25.00	\$ 221,537.50	\$ -	\$ -	\$ -	\$ -	\$ 36.89	\$ 326,870.43	0.00%	\$ 326,870.43



AECOM White Flint Station - New North Entrance
 Gulf Tower Location: Montgomery County, MD
 707 Grant Street Client: WMATA
 Pittsburgh, PA 15219

Estimate by: SS 11/11/2019
 Checked by: KS 11/11/2019

13.00 Estimate Detail - Alternate 3 (Phase I)

Item #	Description	Quantity	UOM	MH/Unit	Tot. Hours	Crew	\$/MH	Labor	Labor Total	Material	Material Total	Equipment	Equipment Total	Other	Other Total	Unit Cost	Subtotal	Sub Markups	Total Cost	
9.002	Elevator Machinery Room	150.00	SF	0.80	120.00	TILE	\$ 47.55	\$ 38.04	\$ 5,705.56	\$25.00	\$ 3,750.00	\$ -	\$ -	\$ -	\$ -	\$ 63.04	\$ 9,455.56	0.00%	\$ 9,455.56	
9.003	Electric Room	75.00	SF	0.80	60.00	TILE	\$ 47.55	\$ 38.04	\$ 2,852.78	\$25.00	\$ 1,875.00	\$ -	\$ -	\$ -	\$ -	\$ 63.04	\$ 4,727.78	0.00%	\$ 4,727.78	
9.004	Water Service Room	85.00	SF	0.80	68.00	TILE	\$ 47.55	\$ 38.04	\$ 3,233.15	\$25.00	\$ 2,125.00	\$ -	\$ -	\$ -	\$ -	\$ 63.04	\$ 5,358.15	0.00%	\$ 5,358.15	
9.005	Staff & Public Restrooms	430.00	SF	0.80	344.00	TILE	\$ 47.55	\$ 38.04	\$ 16,355.93	\$25.00	\$ 10,750.00	\$ -	\$ -	\$ -	\$ -	\$ 63.04	\$ 27,105.93	0.00%	\$ 27,105.93	
009 Finishes Total																			\$ 373,517.86	
010 Specialities																				\$ -
011 Equipment																				\$ -
012 Furnishings																				\$ 69,118.27
12.001	Benches	10.00	EA	0.10	1.00	CARP	\$ 49.28	\$ 4.93	\$ 49.28	\$4,000.00	\$ 40,000.00	\$ -	\$ -	\$ -	\$ -	\$ 4,004.93	\$ 40,049.28	0.00%	\$ 40,049.28	
12.002	Waste and recycling containers	6.00	EA	0.10	0.60	CARP	\$ 49.28	\$ 4.93	\$ 29.57	\$1,500.00	\$ 9,000.00	\$ -	\$ -	\$ -	\$ -	\$ 1,504.93	\$ 9,029.57	0.00%	\$ 9,029.57	
12.003	Bomb-Resistant Receptacle	4.00	EA	0.20	0.80	CARP	\$ 49.28	\$ 9.86	\$ 39.42	\$5,000.00	\$ 20,000.00	\$ -	\$ -	\$ -	\$ -	\$ 5,009.86	\$ 20,039.42	0.00%	\$ 20,039.42	
013 Special Construction																				\$ -
014 Conveying Systems																				\$ 1,600,000.00
14.001	Elevators	2.00	EA	0.00	0.00	B10M	\$ 45.13	\$ -	\$ -	\$800,000.00	\$ 1,600,000.00	\$ -	\$ -	\$ -	\$ -	\$ 800,000.00	\$ 1,600,000.00	0.00%	\$ 1,600,000.00	
021 Fire Suppression																				\$ 25,651.14
26.031	FA Notification Device	9	EACH	1.20	10.80	ELEC	\$ 75.14	\$ 90.16	\$ 811.47	\$75.00	\$ 675.00	\$ -	\$ -	\$ -	\$ -	\$ 165.16	\$ 1,486.47	0.00%	\$ 1,486.47	
26.032	FA Initiation Device	6	EACH	1.20	7.20	ELEC	\$ 75.14	\$ 90.16	\$ 540.98	\$75.00	\$ 450.00	\$ -	\$ -	\$ -	\$ -	\$ 165.16	\$ 990.98	0.00%	\$ 990.98	
26.033	FA Equipment	1	ALLOW	29.96	29.96	ELEC	\$ 75.14	\$ 2,251.37	\$ 2,251.37	\$3,000.00	\$ 3,000.00	\$ -	\$ -	\$ -	\$ -	\$ 5,251.37	\$ 5,251.37	0.00%	\$ 5,251.37	
26.034	Fire Alarm Wiring	2000	LNFT	0.08	160.00	ELEC	\$ 75.14	\$ 6.01	\$ 12,022.33	\$1.00	\$ 2,000.00	\$ -	\$ -	\$ -	\$ -	\$ 7.01	\$ 14,022.33	0.00%	\$ 14,022.33	
26.035	FA Test & Check System	1	ALLOW	0.00	0.00	ELEC	\$ 75.14	\$ -	\$ -	\$1,500.00	\$ 1,500.00	\$ -	\$ -	\$ -	\$ -	\$ 1,500.00	\$ 1,500.00	0.00%	\$ 1,500.00	
26.036	FA Programming/ Engineering	1	ALLOW	0.00	0.00	ELEC	\$ 75.14	\$ -	\$ -	\$2,400.00	\$ 2,400.00	\$ -	\$ -	\$ -	\$ -	\$ 2,400.00	\$ 2,400.00	0.00%	\$ 2,400.00	
022 Plumbing																				\$ 284,775.14
22.001	Restrooms	3.00	EA	64.00	192.00	PLUM	\$ 71.88	\$ 4,600.58	\$ 13,801.75	\$8,000.00	\$ 24,000.00	\$ 1,000.00	\$ 3,000.00	\$ -	\$ -	\$ 13,600.58	\$ 40,801.75	0.00%	\$ 40,801.75	
22.002	Plumbing	9601.50	SF	0.35	3360.53	PLUM	\$ 71.88	\$ 25.16	\$ 241,568.39	\$4.50	\$ 43,206.75	\$ -	\$ -	\$ -	\$ -	\$ 29.66	\$ 284,775.14	0.00%	\$ 284,775.14	
023 HVAC																				\$ 37,000.00
23.001	HVAC	740	SF	0.00	0.00	ELEC	\$ 75.14	\$ -	\$ -	\$ -	\$ -	\$ 50.00	\$ 37,000.00	\$ -	\$ -	\$ 50.00	\$ 37,000.00	0.00%	\$ 37,000.00	
026 Electrical																				\$ 603,667.91
26.001	Motor Control Center	1	EACH	35.00	35.00	ELEC	\$ 75.14	\$ 2,629.88	\$ 2,629.88	\$24,000.00	\$ 24,000.00	\$ -	\$ -	\$ -	\$ -	\$ 26,629.88	\$ 26,629.88	0.00%	\$ 26,629.88	
26.002	Primary Circuit Protection For MCC	1	EACH	12.00	12.00	ELEC	\$ 75.14	\$ 901.67	\$ 901.67	\$5,500.00	\$ 5,500.00	\$ -	\$ -	\$ -	\$ -	\$ 6,401.67	\$ 6,401.67	0.00%	\$ 6,401.67	
26.003	MCC Distribution Feeder Conduit & Wire	300	LNFT	0.82	246.00	ELEC	\$ 75.14	\$ 61.62	\$ 18,484.55	\$47.94	\$ 14,382.00	\$ -	\$ -	\$ -	\$ -	\$ 109.56	\$ 32,866.55	0.00%	\$ 32,866.55	
26.004	Power For Display Board	7	EACH	14.01	98.07	ELEC	\$ 75.14	\$ 1,052.74	\$ 7,369.20	\$210.00	\$ 1,470.00	\$ -	\$ -	\$ -	\$ -	\$ 1,262.74	\$ 8,839.20	0.00%	\$ 8,839.20	
26.005	Power To Elevator	2	EACH	34.93	69.87	ELEC	\$ 75.14	\$ 2,624.96	\$ 5,249.92	\$1,800.00	\$ 3,600.00	\$ -	\$ -	\$ -	\$ -	\$ 4,424.96	\$ 8,449.92	0.00%	\$ 8,449.92	
26.006	Power To Elevator Sump Pump	2	EACH	21.00	41.99	ELEC	\$ 75.14	\$ 1,577.73	\$ 3,155.47	\$450.00	\$ 900.00	\$ -	\$ -	\$ -	\$ -	\$ 2,027.73	\$ 4,055.47	0.00%	\$ 4,055.47	
26.007	Power To Base Board Heater	8	EACH	15.01	120.08	ELEC	\$ 75.14	\$ 1,127.80	\$ 9,022.38	\$220.00	\$ 1,760.00	\$ -	\$ -	\$ -	\$ -	\$ 1,347.80	\$ 10,782.38	0.00%	\$ 10,782.38	
26.008	Power To Ventilation Unit	6	EACH	20.00	120.00	ELEC	\$ 75.14	\$ 1,502.79	\$ 9,016.74	\$400.00	\$ 2,400.00	\$ -	\$ -	\$ -	\$ -	\$ 1,902.79	\$ 11,416.74	0.00%	\$ 11,416.74	
26.009	Emergency Power Tie Into Existing System (Elevator, etc.)	1	ALLOW	60.00	60.00	ELEC	\$ 75.14	\$ 4,508.37	\$ 4,508.37	\$2,000.00	\$ 2,000.00	\$ -	\$ -	\$ -	\$ -	\$ 6,508.37	\$ 6,508.37	0.00%	\$ 6,508.37	
26.010	Canopy LED Light Fixture	42	EACH	1.20	50.40	ELEC	\$ 75.14	\$ 90.16	\$ 3,786.84	\$385.00	\$ 16,170.00	\$ -	\$ -	\$ -	\$ -	\$ 475.16	\$ 19,956.84	0.00%	\$ 19,956.84	
26.011	Platform Edge Light	84	EACH	1.50	126.01	ELEC	\$ 75.14	\$ 112.72	\$ 9,468.15	\$220.00	\$ 18,480.00	\$ -	\$ -	\$ -	\$ -	\$ 332.72	\$ 27,948.15	0.00%	\$ 27,948.15	
26.012	North Entrance Mezz Light	34	EACH	1.20	40.80	ELEC	\$ 75.14	\$ 90.16	\$ 3,065.54	\$285.00	\$ 9,690.00	\$ -	\$ -	\$ -	\$ -	\$ 375.16	\$ 12,755.54	0.00%	\$ 12,755.54	
26.013	Exterior Light	12	EACH	1.20	14.40	ELEC	\$ 75.14	\$ 90.16	\$ 1,081.96	\$185.00	\$ 2,220.00	\$ -	\$ -	\$ -	\$ -	\$ 275.16	\$ 3,301.96	0.00%	\$ 3,301.96	
26.014	Walkway Pole Light & Base	8	EACH	12.00	96.00	ELEC	\$ 75.14	\$ 901.67	\$ 7,213.40	\$1,800.00	\$ 14,400.00	\$ -	\$ -	\$ -	\$ -	\$ 2,701.67	\$ 21,613.40	0.00%	\$ 21,613.40	
26.015	Room Light LEDS	9	EACH	1.20	10.80	ELEC	\$ 75.14	\$ 90.16	\$ 811.47	\$220.00	\$ 1,980.00	\$ -	\$ -	\$ -	\$ -	\$ 310.16	\$ 2,791.47	0.00%	\$ 2,791.47	
26.016	Exit Sign	5	EACH	1.00	5.00	ELEC	\$ 75.14	\$ 75.14	\$ 375.70	\$225.00	\$ 1,125.00	\$ -	\$ -	\$ -	\$ -	\$ 300.14	\$ 1,500.70	0.00%	\$ 1,500.70	
26.017	Lighting Control	1	ALLOW	30.00	30.00	ELEC	\$ 75.14	\$ 2,254.19	\$ 2,254.19	\$1,000.00	\$ 1,000.00	\$ -	\$ -	\$ -	\$ -	\$ 3,254.19	\$ 3,254.19	0.00%	\$ 3,254.19	
26.018	Emergency Lighting- Tie Into Existing System	1	ALLOW	80.00	80.00	ELEC	\$ 75.14	\$ 6,011.16	\$ 6,011.16	\$2,500.00	\$ 2,500.00	\$ -	\$ -	\$ -	\$ -	\$ 8,511.16	\$ 8,511.16	0.00%	\$ 8,511.16	
26.019	Light Fixture Conduit & Wire	4800	LNFT	0.18	864.00	ELEC	\$ 75.14	\$ 13.53	\$ 64,920.56	\$1.20	\$ 5,760.00	\$ -	\$ -	\$ -	\$ -	\$ 14.73	\$ 70,680.56	0.00%	\$ 70,680.56	
26.020	Duplex Receptacle	19	EACH	0.80	15.20	ELEC	\$ 75.14	\$ 60.11	\$ 1,142.12	\$22.00	\$ 418.00	\$ -	\$ -	\$ -	\$ -	\$ 82.11	\$ 1,560.12	0.00%	\$ 1,560.12	
26.021	Duplex Receptacle GFI	6	EACH	1.00	6.00	ELEC	\$ 75.14	\$ 75.14	\$ 450.84	\$34.00	\$ 204.00	\$ -	\$ -	\$ -	\$ -	\$ 109.14	\$ 654.84	0.00%	\$ 654.84	
26.022	Quad Duplex Receptacle	4	EACH	1.20	4.80	ELEC	\$ 75.14	\$ 90.16	\$ 360.65	\$44.00	\$ 176.00	\$ -	\$ -	\$ -	\$ -	\$ 134.16	\$ 536.65	0.00%	\$ 536.65	
26.023	Duplex Receptacle GFI WP	6	EACH	1.20	7.20	ELEC	\$ 75.14	\$ 90.16	\$ 540.98	\$58.00	\$ 348.00	\$ -	\$ -	\$ -	\$ -	\$ 148.16	\$ 888.98	0.00%	\$ 888.98	
26.024	Receptacle Conduit & Wire	1400	LNFT	0.18	252.00	ELEC	\$ 75.14	\$ 13.53	\$ 18,935.16	\$1.20	\$ 1,680.00	\$ -	\$ -	\$ -	\$ -	\$ 14.73	\$ 20,615.16	0.00%	\$ 20,615.16	
26.025	Existing Etec Demo & Relocation	2	EA	132.00	264.00	ELEC	\$ 75.14	\$ 9,918.42	\$ 19,836.84	\$0.00	\$ -	\$ 1,200.00	\$ 2,400.00	\$ -	\$ -	\$ 11,118.42	\$ 22,236.84	0.00%	\$ 22,236.84	
26.026	Commissioning	1	LS	80.00	80.00	ELEC	\$ 75.14	\$ 6,011.16	\$ 6,011.16	\$0.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,011.16	\$ 6,011.16	0.00%	\$ 6,011.16	
26.027	New Signage	1	LS	0.00	0.00	ELEC	\$ 75.14	\$ -	\$ -	\$0.00	\$ -	\$ -	\$ -	\$ 262,500.00	\$ 262,500.00	\$ 262,500.00	\$ 262,500.00	0.00%	\$ 262,500.00	
027 Communications																				\$ 16,250.81
27.001	Data/Voice Outlet	6	EACH	2.50	15.00	ELEC	\$ 75.14	\$ 187.85	\$ 1,127.09	\$45.00	\$ 270.00	\$ -	\$ -	\$ -	\$ -	\$ 232.85	\$ 1,397.09	0.00%	\$ 1,397.09	
27.002	Data/Voice Outlet Conduit & Wire	900	LNFT	0.18	162.00	ELEC	\$ 75.14	\$ 13.53	\$ 12,172.61	\$1.20	\$ 1,080.00	\$ -	\$ -	\$ -	\$ -	\$ 14.73	\$ 13,252.61	0.00%	\$ 13,252.61	
27.003	Work At IT Existing Rack	1	ALLOW	8.00	8.00	ELEC	\$ 75.14	\$ 601.12	\$ 601.12	\$1,000.00	\$ 1,000.00	\$ -	\$ -	\$ -	\$ -	\$ 1,601.12	\$ 1,601.12	0.00%	\$ 1,601.12	
028 Security Systems																				



AECOM White Flint Station - New North Entrance
 Gulf Tower Location: Montgomery County, MD
 707 Grant Street Client: WMATA
 Pittsburgh, PA 15219

Estimate by: SS 11/11/2019
 Checked by: KS 11/11/2019

13.00 Estimate Detail - Alternate 3 (Phase I)

Item #	Description	Quantity	UOM	MH/Unit	Tot. Hours	Crew	\$/MH	Labor	Labor Total	Material	Material Total	Equipment	Equipment Total	Other	Other Total	Unit Cost	Subtotal	Sub Markups	Total Cost	
28.002	Sound System Front End Equipment	1	ALLOW	24.02	24.02	ELEC	\$ 75.14	\$ 1,805.15	\$ 1,805.15	\$4,500.00	\$ 4,500.00	\$ -	\$ -	\$ -	\$ -	\$ 6,305.15	\$ 6,305.15	0.00%	\$ 6,305.15	
28.003	Speaker Conduit & Wire	1600	LNFT	0.18	288.00	ELEC	\$ 75.14	\$ 13.53	\$ 21,640.19	\$1.00	\$ 1,600.00	\$ -	\$ -	\$ -	\$ -	\$ 14.53	\$ 23,240.19	0.00%	\$ 23,240.19	
28.004	Camera	17	EACH	4.00	68.00	ELEC	\$ 75.14	\$ 300.56	\$ 5,109.49	\$1,000.00	\$ 17,000.00	\$ -	\$ -	\$ -	\$ -	\$ 1,300.56	\$ 22,109.49	0.00%	\$ 22,109.49	
28.005	Camera Conduit & Wire	2600	LNFT	0.18	468.00	ELEC	\$ 75.14	\$ 13.53	\$ 35,165.30	\$1.20	\$ 3,120.00	\$ -	\$ -	\$ -	\$ -	\$ 14.73	\$ 38,285.30	0.00%	\$ 38,285.30	
28.006	Video Front End Equipment	1	ALLOW	24.02	24.02	ELEC	\$ 75.14	\$ 1,805.15	\$ 1,805.15	\$6,000.00	\$ 6,000.00	\$ -	\$ -	\$ -	\$ -	\$ 7,805.15	\$ 7,805.15	0.00%	\$ 7,805.15	
028 Security Systems Total																			\$	106,308.38
031 Earthwork																				
31.001	Compacted Backfill	64.20	CUYD	0.10	6.42	EOM	\$ 47.80	\$ 4.78	\$ 306.90	\$26.00	\$ 1,669.20	\$ 25.23	\$ 1,619.82	\$ -	\$ -	\$ 56.01	\$ 3,595.92	0.00%	\$ 3,595.92	
31.002	Excavation	344.55	CUYD	0.10	34.45	B10M	\$ 45.13	\$ 4.51	\$ 1,554.98	\$0.00	\$ -	\$ 10.00	\$ 3,445.48	\$ -	\$ -	\$ 14.51	\$ 5,000.45	0.00%	\$ 5,000.45	
31.003	Pressure Grouting - drilling, grout and pressure pumping	1440.00	VLF	0.50	720.00	B10M	\$ 54.16	\$ 27.08	\$ 38,993.11	\$50.00	\$ 72,000.00	\$ 35.00	\$ 50,400.00	\$ -	\$ -	\$ 112.08	\$ 161,393.11	0.00%	\$ 161,393.11	
031 Earthwork Total																			\$	169,989.48
032 Exterior Improvements																				
32.001	Landscaping	1.00	ALLOW	120.00	120.00	LABOR	\$ 39.78	\$ 4,774.17	\$ 4,774.17	\$100,000.00	\$ 100,000.00	\$ 4,300.00	\$ 4,300.00	\$ -	\$ -	\$ 109,074.17	\$ 109,074.17	0.00%	\$ 109,074.17	
032 Exterior Improvements Total																			\$	109,074.17
033 Utilities																				
33.001	Utility Relocation	1.00	ALLOW	0.00	0.00	B10M	\$ 45.13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400,000.00	\$ 400,000.00	\$ 400,000.00	\$ 400,000.00	0.00%	\$ 400,000.00	
33.002	Fire Protection Piping	9601.50	SF	0.10	960.15	B10M	\$ 45.13	\$ 4.51	\$ 43,332.45	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4.51	\$ 43,332.45	0.00%	\$ 43,332.45	
033 Utilities Total																			\$	443,332.45
034 Transportation																				
34.001	Fare Gates	5.00	EA	0.00	0.00	B10M	\$ 45.13	\$ -	\$ -	\$100,000.00	\$ 500,000.00	\$ -	\$ -	\$ -	\$ -	\$ 100,000.00	\$ 500,000.00	0.00%	\$ 500,000.00	
34.002	Station Manager Kiosk	1.00	EA	96.00	96.00	B10M	\$ 45.13	\$ 4,332.57	\$ 4,332.57	\$80,000.00	\$ 80,000.00	\$ 1,200.00	\$ 1,200.00	\$ -	\$ -	\$ 85,532.57	\$ 85,532.57	0.00%	\$ 85,532.57	
34.001	Ticket Vending Machines (TVM)	8.00	EA	0.00	0.00	B10M	\$ 45.13	\$ -	\$ -	\$160,000.00	\$ 1,280,000.00	\$ -	\$ -	\$ -	\$ -	\$ 160,000.00	\$ 1,280,000.00	0.00%	\$ 1,280,000.00	
034 Transportation Total																			\$	1,865,532.57
																			\$	9,118,919.43



AECOM
 Gulf Tower
 707 Grant Street
 Pittsburgh, PA 15219

Project: White Flint Station - New North Entrance
 Location: Montgomery County, MD
 Client: WMATA

11/11/2019

Schematic Design

Estimate Summary - Alternate 3 (Phase II)

Division	Description	% of Costs	Total
1	General Conditions	0.00%	\$ -
2	Existing Conditions	0.00%	\$ -
3	Concrete	54.13%	\$ 333,759
4	Masonry	0.00%	\$ -
5	Metals	0.00%	\$ -
6	Wood, Lumber, and Composites	0.00%	\$ -
7	Thermal and Moisture Protection	0.00%	\$ -
8	Openings	45.87%	\$ 282,858
9	Finishes	0.00%	\$ -
10	Specialties	0.00%	\$ -
11	Equipment	0.00%	\$ -
12	Furnishings	0.00%	\$ -
13	Special Construction	0.00%	\$ -
14	Conveying Systems	0.00%	\$ -
21	Fire Suppression	0.00%	\$ -
22	Plumbing	0.00%	\$ -
23	Heating, Ventilating, and Air Conditioning	0.00%	\$ -
26	Electrical	0.00%	\$ -
27	Communications	0.00%	\$ -
28	Electronic Safety and Security	0.00%	\$ -
31	Earthwork	0.00%	\$ -
32	Exterior Improvements	0.00%	\$ -
33	Utilities	0.00%	\$ -
34	Transportation	0.00%	\$ -
Subtotal			\$ 616,617
General Conditions		20.00%	\$ 123,323
Security Allowance		3.00%	\$ 18,499
Phasing Requirements		8.00%	\$ 49,329
Subtotal			\$ 807,768
Mid Project Escalation		Included in Summary Comparison	0.00% \$ -
Subtotal			\$ 807,768
General Contractor Overhead		10.00%	\$ 80,777
General Contractor Profit		10.00%	\$ 80,777
Subtotal			\$ 969,322
Bonds and Insurance		2.00%	\$ 19,386
Subtotal			\$ 988,708
Allocated Contingency		30.00%	\$ 296,612
Unallocated Contingency		Included in Summary Comparison	0.00% \$ -
Total Construction Costs			\$ 1,285,321
Professional Services		Included in Summary Comparison	0.00% \$ -
Total Cost			\$ 1,285,321



AECOM White Flint Station - New North Entrance
 Gulf Tower Location: Montgomery County, MD
 707 Grant Street Client: WMATA
 Pittsburgh, PA 15219

Estimate by: SS 11/11/2019
 Checked by: KS 11/11/2019

13.00 Estimate Detail - Alternate 3 (Phase II)

Item #	Description	Quantity	UOM	MH/Unit	Tot. Hours	Crew	\$/MH	Labor	Labor Total	Material	Material Total	Equipment	Equipment Total	Other	Other Total	Unit Cost	Total Cost	
001 General Conditions																		
001 General Conditions Total																	\$	-
002 Existing Conditions																		
002 Existing Conditions Total																	\$	-
003 Concrete																		
Mezzanine Level:																		
3.001	New Canopy Columns	9.00	CUYD	24.00	216.00	CONC001	\$ 48.34	\$ 1,160.24	\$ 10,442.18	\$ 290.12	\$ 2,611.12	\$ 500.00	\$ 4,500.00	\$ -	\$ -	\$ 1,950.37	\$ 17,553.30	
Roof:																		
3.004	Canopy Platform Extension	146.91	CUYD	7.00	1028.40	IRON	\$ 64.12	\$ 448.84	\$ 65,940.45	\$ 290.00	\$ 42,604.94	\$ 180.00	\$ 26,444.44	\$ -	\$ -	\$ 918.84	\$ 134,989.83	
3.005	Canopy Longitudinal Beams	106.94	CUYD	8.00	855.56	IRON	\$ 64.12	\$ 512.96	\$ 54,858.02	\$ 290.00	\$ 31,013.89	\$ 190.00	\$ 20,319.44	\$ -	\$ -	\$ 992.96	\$ 106,191.35	
3.006	Canopy Secondary Beams	72.72	CUYD	6.00	436.33	IRON	\$ 76.94	\$ 461.66	\$ 33,573.11	\$ 290.00	\$ 21,089.44	\$ 280.00	\$ 20,362.22	\$ -	\$ -	\$ 1,031.66	\$ 75,024.77	
003 Concrete Total																	\$	333,759.25
004 Masonry																		
004 Masonry Total																	\$	-
005 Metals																		
005 Metals Total																	\$	-
006 Wood and Plastics																		
006 Wood and Plastics Total																	\$	-
007 Thermal and Moisture Protection																		
007 Thermal and Moisture Protection Total																	\$	-
008 Openings																		
Roof:																		
8.002	Canopy Skylight	1368.13	SF	0.10	136.81	GLAZ	\$ 51.64	\$ 5.16	\$ 7,065.52	\$ 200.00	\$ 273,625.91	\$ 1.58	\$ 2,166.21	\$ -	\$ -	\$ 206.75	\$ 282,857.63	
008 Openings Total																	\$	282,857.63
009 Finishes																		
009 Finishes Total																	\$	-
010 Specialities																		
010 Specialities Total																	\$	-
011 Equipment																		
011 Equipment Total																	\$	-
012 Furnishings																		
012 Furnishings Total																	\$	-
013 Special Construction																		
013 Special Construction Total																	\$	-
014 Conveying Systems																		
014 Conveying Systems Total																	\$	-
021 Fire Suppression																		
021 Fire Suppression Total																	\$	-
022 Plumbing																		
022 Plumbing Total																	\$	-
034 Transportation																		
034 Transportation Total																	\$	-
																	\$	616,616.88