

Town of Seekonk
South End Fire Station
Building Committee

Committee Members Attendance:

☐ James Tusino (Chairman) ☒ Michael Bourque (Vice Chairman) ☒ Nicholas Rondeau (Clerk)
☒ David Sullivan (Member) ☒ Oscar Elmasian (Member)

Other Attendees: Dir. Of Comms. Dir. Wunschel | TGAS: P. Carissimi (Virtual) | TGAS: T. Galante (Virtual) |
CGA: D. Tavares (Virtual) | CGA: M. Carney |

Meeting Date: 12/15/2022

Time: 7:09 PM

In person meeting.

Anyone audio or visually recording the meeting?

No one audio or visually recording

Open meeting:

Motion to call the Meeting to Order at 7:09pm, made by: Mr. Bourque,
All in favor:

- 1.) Consider the Approval of Bills and Invoices.
 - a. CGA – SFS-010 Motion to table the invoice to the next meeting and when the Town Administrator has the ability to review it. Motion made by Mr. Elmasian, Seconded by Mr. Sullivan. All In favor: Mr. Rondeau, Mr. Sullivan, Mr. Bourque, Mr. Elmasian.
- 2.) Community: None
- 3.) General: None
- 4.) Updates CGA
 - a. See Addendum I : Seekonk South End Fire Station Building Committee 12/15/22
 - i. Updates, Discussions, and Action Items:
 - ii. Building Commissioning:
 - iii. Cost Estimates:
 - iv. Geotech Report:
 - v. Perc Tests: Mr. Sullivan asked if the test did meet title 5. Mr. Tavares said it did meet the title 5 status.
 - vi. Permitting Costs:
 - vii. Design Development Status:
 - viii. Presentation to Board of Selectmen:
 - ix. Purchasing of Dispatch Equipment:
- 5.) Updates TGAS
 - a. Computer presentation Addendum II: Presentation for 12/15/22.
 - i. Alternates:
 1. Use and prioritization

Town of Seekonk
South End Fire Station
Building Committee

2. Four-fold doors – by-fold doors for the Fire apparatus.
3. Pre-action fire suppression system = Mr. Sullivan made the motion to make “Pre-action fire suppression system” to be moved to the base price, Seconded by: Mr. Bourque. All in favor of: Mr. Sullivan, Mr. Elmasian, Mr. Bourque, Mr. Rondeau.
4. Additional HVAC zones – in the Fire Bunk rooms. = Remove
5. Apparatus bay radiant floor = remove
6. Apparatus bay fan = remove
7. Epoxy floors = add to base cost. Mr. Sullivan made a motion to move the Epoxy floors to the base price of the building and removed from the Alternates list. Seconded by, Mr. Bourque. All in favor: No. All those against: Yes; Mr. Sullivan, Mr. Bourque, Mr. Rondeau, Mr. Elmasian.

Current Alternate list is:

- a.) Epoxy Floors.
- b.) Four-fold doors – by-fold doors for the Fire apparatus.

ii. _

6.) Approval of Minutes:

- a. None at this time.

7.) Discuss next steps and next meeting date.

Next meeting will be a full board meeting with the Board of Selectmen on Wednesday December 21st, 2022 at 6:00pm. Will have to post on Monday December 19th, 2022 before 12:00pm.

Next meeting after Board of Selectmen meeting, would be January 19, 2022, Thursday, at Possibly virtual. Will confirm January 12th.

Next meeting will be on:

Motion to adjourn, Member Bourque, Seconded by Member Sullivan. All in favor. Member Bourque, Member Sullivan, Member Rondeau, Member Elmasian at 9:01pm.



CGA Project Management, LLC
P.O. Box 3147
Fall River, MA 02722

INVOICE

Town of Seekonk
100 Peck Street
Seekonk, MA 02771

Project: Seekonk South End Fire Station
Invoice #: SFS-010
Invoice Date: 11/30/2022
Original Contract Amount: \$ -
Amended Contract Amount: \$ -
Total Contract Amount: \$ -

Description	Contract Amount	Previously Billed	Total Earned	% Complete	Current Billing
Designer Procurement	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	100%	\$ -
Preconstruction Phases	\$ 60,000.00	\$ 30,000.00	\$ 35,000.00	58%	\$ 5,000.00
Abatement/Demolition	\$ 2,000.00	\$ -	\$ -	0%	\$ -
Construction Phase	\$ 168,000.00	\$ -	\$ -	0%	\$ -
Project Closeout	\$ 6,000.00	\$ -	\$ -	0%	\$ -
Summary	\$ 240,000.00	\$ 34,000.00	\$ 39,000.00	16%	\$ 5,000.00

TOTAL DUE: \$ 5,000.00

Please remit payment to:
CGA Project Management, LLC
P.O. Box 3147
Fall River, MA 02722

Payment Terms: Thirty (30) days



OPM Progress Report

Seekonk South End Fire Station Building Committee

12.15.2022

➤ **UPDATES, DISCUSSIONS, and ACTION ITEMS:**

- **Abatement and Demolition of Existing Building:** Request update from S. Cadime on the final permit for the stairs and scheduling the abatement then demolition.
- **Building Commissioning:** IES provided review comments on the Design Development documents, which the design team reviewed and acknowledged.
- **Cost Estimates:** CGA, S. Cadime and TGAS met to review the 100% Design Development Cost Estimates to confirm scope and identify several Value Engineering (VE) options. Galante updated drawings and their Cost Estimate to reflect the suggested options, which reduced the cost by approximately \$400,000. Building Committee to review the VE Items. Reference attached list.
 - Reduction of the building/ceiling height of the single-story building. TGAS extended the height reduction to the apparatus bay.
 - Reduction of epoxy flooring. Limited to just decontamination room and lavatory.
 - Reduction of skylights/solar tubes
 - Removal of Walk-off mats from project. Purchased through Owner/FF&E
- **Geotech Report:** The Geotech firm issued their findings from the borings taken on November 22, 2022. Organic soils and fill were found along the top of the site which will need to be removed and structural fill brought in for the area of the building foundation. Updated costs were included in the revised Cost Estimate. They recommended that additional geotechnical observation and site visits be made during construction activities.
- **Perc Tests:** Perc Tests were completed on December 1, 2022. They were witnessed by the Board of Health.
- **Permitting Costs:** A meeting was held today with S.Cadime, CGA, TGAS, and their civil engineer Samiotes to discuss permitting requirements and associated design costs. There is a misunderstanding of services assumed to be owned in the contract versus additional services. This matter is not resolved and could possibly delay the project.
- **Design Development Status:** Building Interior discussion meeting need to be scheduled for January 2023.
- **Presentation to Board of Selectman:** A presentation will be made to the Board of Selectman at the December 21, 2022, meeting.
- **Purchasing of Dispatch Equipment:** Will existing equipment be brought to the new building? Purchasing one new console was mentioned at the Security Meeting, will that be part of the project budget?

➤ **PROJECT SCHEDULE (subject to change):**

- **06/06/22 – 08/12/22: Schematic Design (Completed)**
- **08/15/22 – 11/07/22: Design Development**
 - **09/01/22: Building Committee Meeting: Building Exterior Material (In-Person)**
 - **09/15/22: Building Committee Meeting: Building Systems (Virtual)**

- 09/26/22: 50% Design Development Package for Review
- 09/29/22: Technical Review Meeting with Town
- 09/29/22: Building Committee Meeting: Furniture and Equipment (Virtual)
- 09/30/22: Complete 50% Design Development Package for Review
- 10/17/22: 50% Design Development Owner review comments due
- 10/20/22: Building Committee Meeting
- 11/03/22: Building Committee Meeting: Int./Ext. Finishes (In-Person)
- 11/07/22: 100% Design Development Package to Cost Estimator/Owner
- 11/11/22: 100% DD Owner review comments due
- 11/14/22: Cost Estimates Received
- 11/17/22: BC Meeting: Approve Notice to Proceed to move into CD Phase
- **11/17/22 – 03/10/23: Construction Documents**
 - 11/17/22: Commence Construction Document Phase
 - **12/15/22: Building Committee Meeting**
 - 12/19/22: 50% CD Package for Review
 - **12/21/22: Board of Selectman Meeting?**
 - 01/02/23: 50% CD Owner review comments due
 - **01/19/23: Building Committee Meeting**
 - 02/06/23: 90% CD Package for Review and to Cost Estimator
 - 02/20/22: 90% CD Cost Estimates due– Meeting needed to review
 - **02/23/23: Building Committee Meeting**
 - 02/24/23: 90% CD Owner review comments due
 - 03/10/23: Complete 100% Construction Documents
- **03/09/23 – 04/26/23: Contractor Bidding**
 - 03/09/23: Submit Central Register and legal advertisement
 - 03/15/23: Construction Bid Documents Available
 - 03/16/23: Building Committee Meeting
 - 04/05/23: Filed Subcontractor Bids (FSB) Due
 - 04/13/23: Building Committee Meeting (Approve FSB Bids)
 - 04/26/23: General Contractor Bids Due
 - 04/27/23: Building Committee Meeting (Approve GC Bids)
- **03/??/23: Board of Selectmen Meeting (Approve TM Warrant Article/Ballot)**
- **05/08/23: TOWN MEETING**
- **06/26/23: BALLOT REFERENDUM VOTE**
- 06/12/23: Award General Contractor Bid (6/7/23: 30 days; 6/28/23: 45 days)
- 06/13/23: General Contractor's Notice to Proceed/Start Construction
- 07/31/24: Substantial Completion
- 09/30/24: Complete Closeout Activities/FF&E Installations/Training
- 10/01/24: Owner Move into Building

➤ **INVOICES:**

- CGA Invoice #10: \$5,000. **ACTION ITEM**



OPM Progress Report

➤ **PRECONSTRUCTION PROJECT BUDGET:**

Project Budget	Budget	Committed	Billed to Date	Balance
OPM (SD-BID)	\$ 66,000	\$ 66,000	\$ 39,000	\$ 27,000
A&E (SD-BID)	\$ 306,577	\$ 306,577	\$ 153,288	\$ 153,289
Other				\$ -
Other				\$ -
Budget Subtotal	\$ 372,577	\$ 372,577	\$ 192,288	\$ 180,289

➤ **PRELIMINARY TOTAL PROJECT BUDGET (See attached)**

➤ **PROPOSED BUILDING COMMITTEE MEETING DATES (*subject to change*):**

- 01/19/23 – 7PM

DD COST ESTIMATE REVIEW and VE OPPORTUNITIES

Seekonk Fire Station

Seekonk, MA

DIVISION	ITEM	COMMENTS	VALUE
3	Column Footings	Math doesn't add up. CY unit price seems very high.	\$ (143)
3	Continuous Footings	Math doesn't add up. CY unit price seems very high.	\$ 237
3	Foundation Walls	Math doesn't add up. CY unit price seems very high.	\$ 486
4	Masonry	Eliminate double brick wall on front elevation (-1,174SF)	\$ (58,700)
4	Masonry	Reduce Exterior Wall Height by 2' -Apparatus Bay (-220SF)	\$ (11,000)
5	Structural Steel	Cost/unit price seems high. Steel pricing has dropped	
8	Metal Windows	Specs call for all windows to be storefront. Change to metal windows?	
8	Metal Windows	reduce length and number of clerestory windows and reduce length of a single glass with divisions (-80SF)	\$ (9,200)
8	Metal Windows	Eliminate any curtainwall on the project	
8	Hollow Metal Doors	Door Type 1: Steel or Aluminum?	
8	Hollow Metal Doors	Is HM Sliding Frameless Door needed?	\$ (425)
8	Aluminum Entrances	Remove transom windows above exterior doors	
8	Aluminum Entrances	Eliminate canopy over secondary entrances	
8	Aluminum Entrances	Remove frameless glass entry	\$ (55,200)
8	Tubular Skylights	Delete tubular daylighting devices	\$ (35,000)
8	Framed Skylight	Delete framed skylight at entrance	\$ (26,000)
9	Finishes in Vestibules	change floor finish to rubber ILO epoxy. Change ceiling to ACT ILO painted metal deck. Reduce painting by lowering ceiling height to 10'	
9	Ceiling Heights (Gen)	reduce all ceiling heights to 9' or 10' in occupied spaces.	
9	Ceramic Tile	Change floor tile to epoxy?	
9	Painting	Reduce wall and ceiling heights in ancillary spaces off Apparatus Bay?	
9	Resinous Flooring	Delete epoxy flooring in Apparatus (Add Alternate?)	\$ (86,000)
10	Traffic Signage	Duplicate under Division 32 - Misc Site Signs and Markings?	\$ (2,500)
10	Flagpoles	Integral light at top of pole in lieu of ground lights?	
12	Entrance Floor Mats	drawings do not indicate recessed mat at main entrance. Calls for rubber flooring. Walk off mats by owner?	\$ (4,830)
21	Fire Protection	Scope appears to be light without details. Ensure all equipment, connections, scope and services are included in the estimate	
22	Plumbing	Verify all equipment with Owner	
23	HVAC	(3) Infrared Radiant Heaters shown on M-100 dwg	\$ 19,740
26	Security Access Control	Missing Security systems specifications	
26	Electrical Site Lighting	Alternative less expensive way to light walkway?	
31	Building Demolition	Remove. To be done by Owner	\$ (34,588)
31	Earthwork	Need to discuss cut to fill analysis and unsuitables	
31	Retaining Walls	Type? Missing specifications?	
31	Dumpster & Pad Base	\$33,228 seems excessively high for a 150 SF pad	
32	Landscape Plantings	\$31,330 seems high for the limited amount of lawn area	
32	Site Signs	Duplicate under Division 10 - Traffic Signage?	

TOTAL \$ (303,123)



PRELIMINARY TOTAL PROJECT BUDGET

Seekonk South End Fire Station

Seekonk, MA

12/15/2022

DRAFT

DESCRIPTION		BUDGET	COMMITTED	PAID TO DATE	BALANCE TO BE PAID	UNCOMMITTED FUNDS
1.0 CONSTRUCTION COSTS / CONSTRUCTION CONTINGENCY						
1.1	Original Construction Contract Sum	\$ 7,200,000.00			\$ -	\$ 7,200,000.00
1.2	Construction Contingency	\$ 750,000.00			\$ -	\$ 750,000.00
1.5	CONSTRUCTION COSTS & CONTINGENCY	\$ 7,950,000.00	\$ -	\$ -	\$ -	\$ 7,950,000.00
2.0 SOFT COSTS / PROFESSIONAL SERVICES						
2.1 PHASE 1 - ARCHITECTURAL & ENGINEERING BASIC SERVICES						
2.2	SD-DD-CD-BID (Basic)	\$ 306,577.00	\$ 306,577.00	\$ 153,288.00	\$ 153,289.00	\$ -
2.3	PHASE 1 - Architectural & Engineering Fees (Subtotal)	\$ 306,577.00	\$ 306,577.00	\$ 153,288.00	\$ 153,289.00	\$ -
2.4 PHASE 2 - ARCHITECTURAL & ENGINEERING BASIC SERVICES						
2.5	PH 2: CA/Closeout (Basic)	\$ 131,390.00	\$ -	\$ -	\$ -	\$ 131,390.00
2.7	PH 2: Architect/Engineering Basic Services Subtotal	\$ 131,390.00	\$ -	\$ -	\$ -	\$ 131,390.00
2.8	TOTAL A&E FEES (BASIC SERVICES)	\$ 437,967.00	\$ 306,577.00	\$ 153,288.00	\$ 153,289.00	\$ 131,390.00
2.9 PHASE 1 & 2 - EXTRA & REIMBURSABLE SERVICES						
2.10	PH 1: Geotech Preconstruction (Contract Amendment #1)	\$ 12,290.00	\$ 12,290.00	\$ -	\$ -	\$ 12,290.00
2.11	PH 2: Geotech Const. Admin. (Contract Amendment #1)	\$ 1,500.00	\$ -	\$ -	\$ -	\$ 1,500.00
2.12	PH 1: Security/Tech/Tower (Contract Amendment #2)	\$ 11,700.00	\$ 11,700.00			
2.13	PH 2: Security/Tech/Tower CA (Contract Amendment #2)	\$ 5,000.00				
2.14	PH 2: Allowance for Reimbursable Expenses	\$ -	\$ -	\$ -	\$ -	\$ -
2.15	OTAL A&E FEES (EXTRA & REIMBURSABLE SERVICES)	\$ 30,490.00	\$ 23,990.00	\$ -	\$ -	\$ 6,500.00
3.0 OWNER'S PROJECT MANAGER SERVICES						
3.1	Schematic Design through Bid	\$ 64,000.00	\$ 64,000.00	\$ 34,000.00	\$ 30,000.00	\$ -
3.2	Construction Administration-Closeout	\$ 174,000.00	\$ -			
3.3	Demolition Allowance	\$ 2,000.00	\$ -	\$ -	\$ -	\$ -
3.4	OWNER'S PROJECT MANAGER SERVICES	\$ 240,000.00	\$ 64,000.00	\$ 34,000.00	\$ 30,000.00	\$ 176,000.00
4.0 OTHER OWNER AND PROJECT SOFT COSTS						
4.01	Reimbursable Expenses	\$ 25,000.00	\$ -	\$ -	\$ -	\$ 25,000.00
4.02	Commissioning Agent	\$ 30,000.00	\$ 27,700.00		\$ 27,700.00	\$ 2,300.00
4.03	HAZMAT Abatement & Demolition Monitoring*	\$ 50,000.00			\$ -	\$ 50,000.00
4.04	On-Site Geotechnical Services*	\$ 25,000.00			\$ -	\$ 25,000.00
4.05	Project Permitting and Approvals	\$ 25,000.00			\$ -	\$ 25,000.00
4.06	Third Party QC Testing and Special Inspections*	\$ 75,000.00			\$ -	\$ 75,000.00
4.07	Utility Company Fees and Backcharges (Allowance)	\$ 25,000.00			\$ -	\$ 25,000.00
4.08	Move Management (Needed?)	\$ -			\$ -	\$ -
4.09	Moving Costs (Allowance)	\$ 25,000.00			\$ -	\$ 25,000.00
4.10	E-Bidding, Printing and Advertising (Allowance)	\$ 25,000.00			\$ -	\$ 25,000.00
4.11	Bonding Costs & Related Legal Fees (?)	\$ -			\$ -	\$ -
4.12	Builder's Risk Insurance (by GC)	\$ -			\$ -	\$ -
4.13	Building Permit Fee (Waived)	\$ -			\$ -	\$ -
4.14	Other Project Administrative Costs & Legal Fees	\$ 45,000.00			\$ -	\$ 45,000.00
4.15	OTHER OWNER AND PROJECT SOFT COSTS	\$ 350,000.00	\$ 27,700.00	\$ -	\$ 27,700.00	\$ 322,300.00
5.0 OWNER CONTINGENCY						
5.1	OWNER CONTINGENCY (10% soft costs)	\$ 100,000.00	\$ -	\$ -	\$ -	\$ 100,000.00
6.0 FURNITURE, FIXTURES, EQUIPMENT & TECHNOLOGY						
6.1	Furniture, Fixtures & Equipment (Allowance)	\$ 400,000.00			\$ -	\$ 400,000.00
6.2	Technology (Allowance)	\$ 100,000.00			\$ -	\$ 100,000.00
6.3	FF&E/Technology Allowance Subtotal	\$ 500,000.00	\$ -	\$ -	\$ -	\$ 500,000.00
7.0 MISCELLANEOUS						
7.1		\$ -				
8.0 TOTAL PROJECT BUDGET						
		\$ 9,608,457.00	\$ 422,267.00	\$ 187,288.00	\$ 210,989.00	\$ 9,186,190.00
APPROVED PRECONSTRUCTION BUDGET		\$ -	\$ 425,000.00			
BALANCE REMAINING		\$ -	\$ 2,733.00			

MEETING AGENDA

Project: **Seekonk South End Fire Station**

Project #: 2208

Date: 12.15.22

Initiated by: TGAS

0.0 Building design

- 0.1 Lowered elevation
- 0.2 Canopy at pedestrian entrance
- 0.3 Windows/Doors changes
- 0.4 Fixed windows Vs. Operable windows
- 0.5 Interior heights at apparatus bay
- 0.6 Interior heights at admin/living area

1.0 Cost Estimate

- 1.1 Adjustments discussed with CGA
- 1.2 Updated cost
- 1.3 Next cost estimate

2.0 Alternates

- 2.1 Use and prioritization
- 2.2 Four-fold doors
- 2.3 Pre-action fire suppression system
- 2.4 Additional HVAC zones
- 2.5 Apparatus bay radiant floor
- 2.6 Apparatus bay fan
- 2.7 Epoxy floors

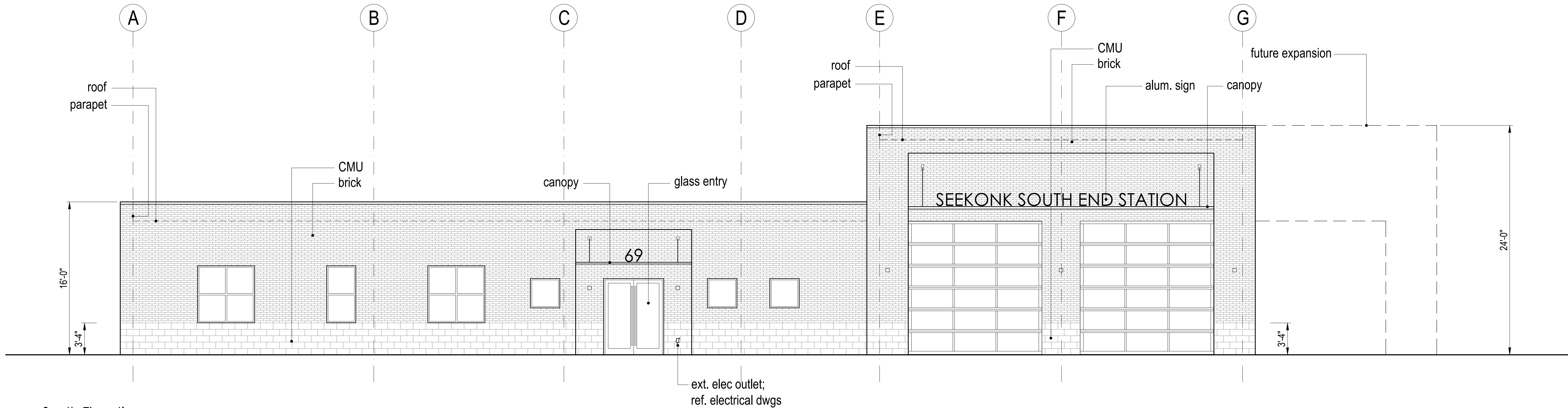
3.0 Schedule

- 3.1 Updated schedule
- 3.2 Next delivery

4.0 Additional services fee

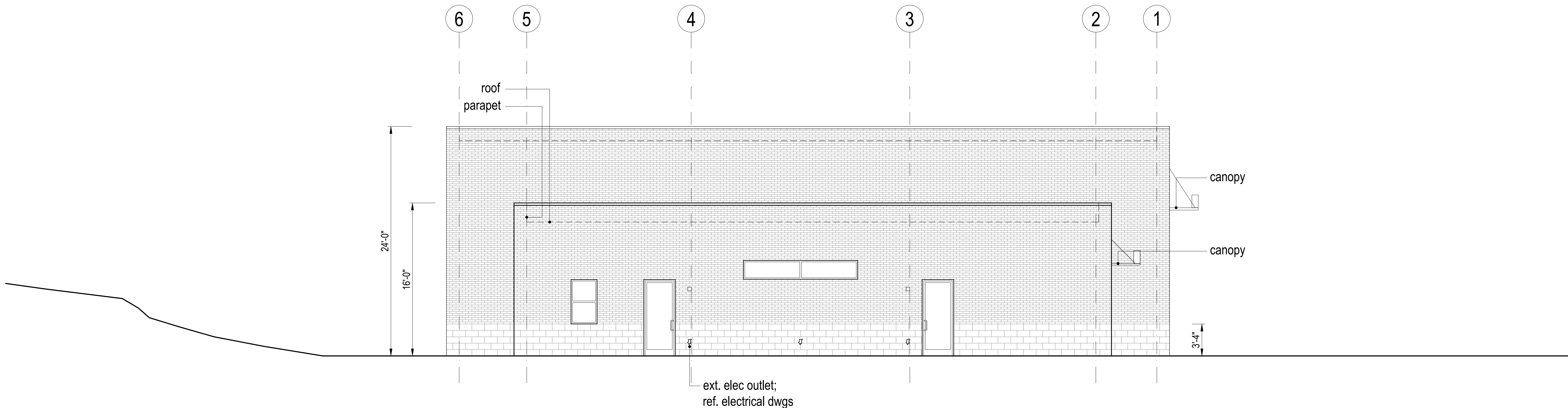
- 4.1 Civil permitting fee

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1 South Elevation

Scale: 3/16" = 1'-0"



2 West Elevation

Scale: 3/16" = 1'-0"

TGAS

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Project Number

2208

Project Title

Seekonk South End
Fire Station

69 School St,
Seekonk, MA 02771

Drawing Title

Building Elevations
South & West
Elevations

Date/Issued For

12.08.22

Progress Set

NOT FOR
CONSTRUCTION

TGAS

Print 24x36

Scale

3/16" = 1'-0"

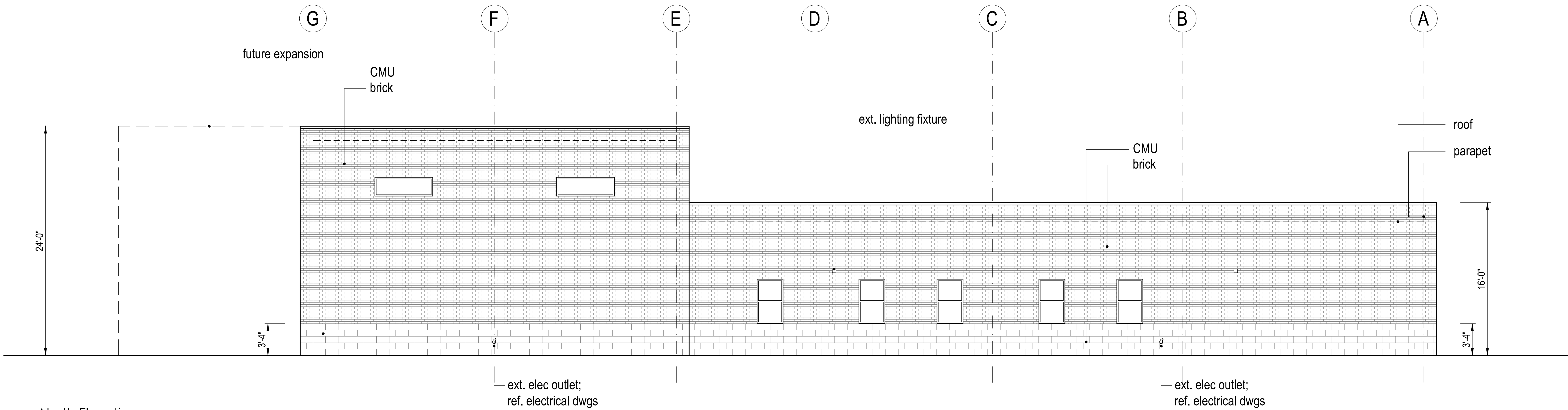
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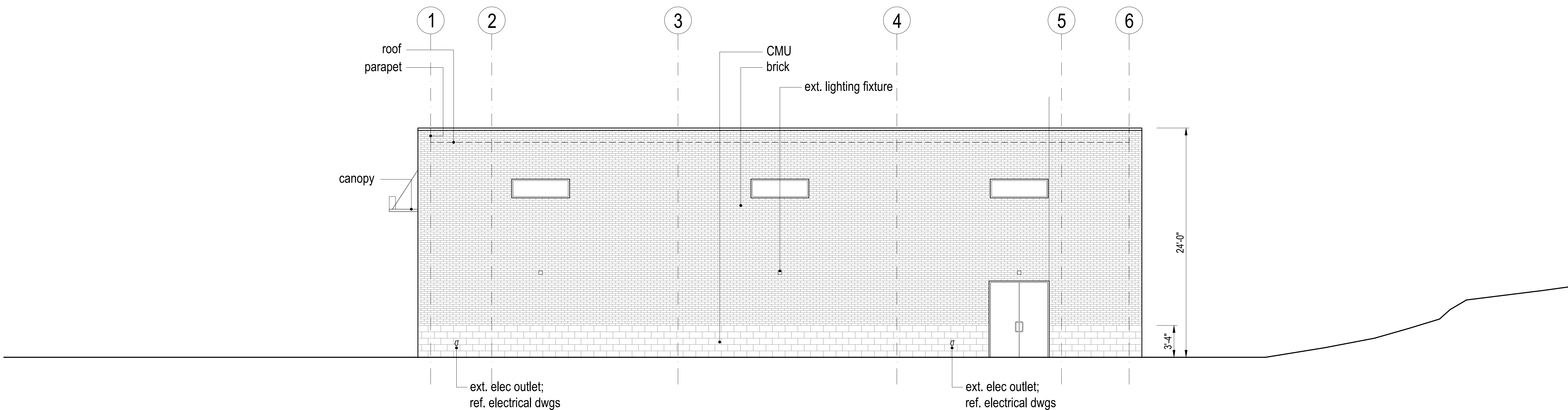
A-201

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1 North Elevation

Scale: 3/16" = 1'-0"



2 East Elevation

Scale: 3/16" = 1'-0"

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Project Number
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Seekonk South End
Fire Station

69 School St,
Seekonk, MA 02771

Drawing Title
Building Elevations
North & East
Elevations

Date/Issued For
12.08.22

Progress Set

NOT FOR
CONSTRUCTION

TGAS

Print 24x36
Scale
3/16" = 1'-0"

Drawn By
TGAS

Drawing Number
A-202

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Project Number

2208

Project Title

Seekonk South End
Fire Station

69 School St,
Seekonk, MA 02771

Drawing Title

Building Section

Date/Issued For

12.08.22

Progress Set

NOT FOR
CONSTRUCTION

TGAS

Print 24x36

Scale

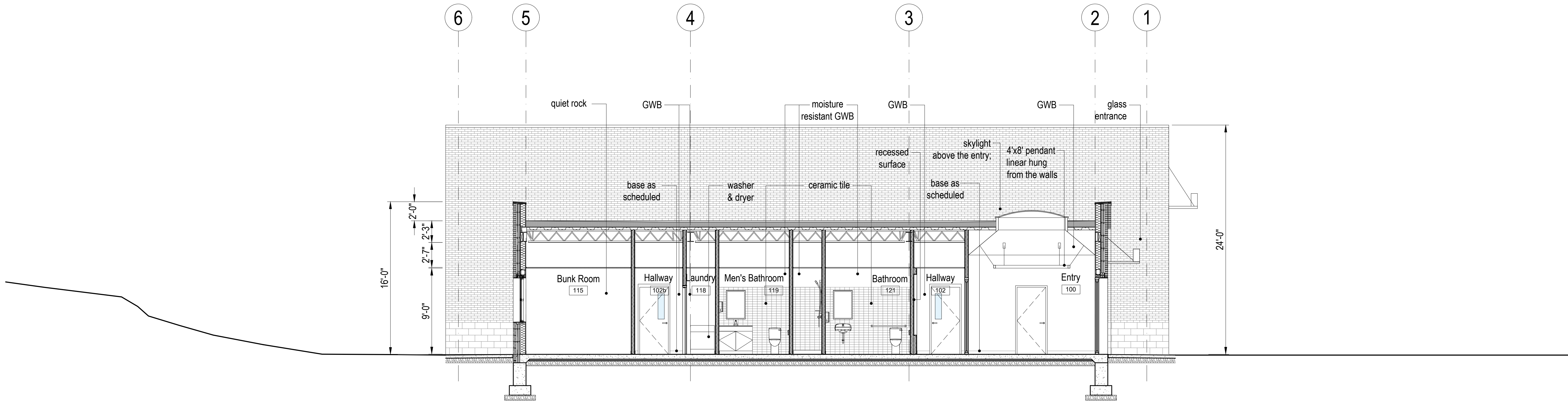
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Drawn By

TGAS

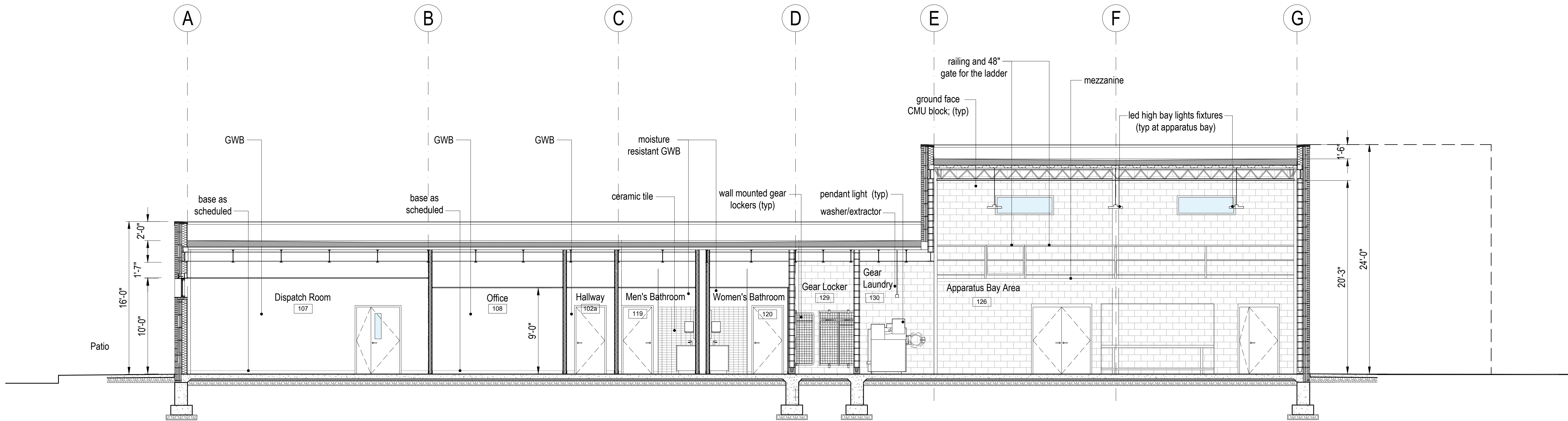
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A-301



1 Building Section

Scale: 3/16" = 1'-0"



2 Building Section

Scale: 3/16" = 1'-0"

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Project Number

2208

Project Title

Seekonk South End
Fire Station

69 School St,
Seekonk, MA 02771

Drawing Title

Building Section

Date/Issued For

12.08.22

Progress Set

NOT FOR
CONSTRUCTION

TGAS

Print 24x36

Scale

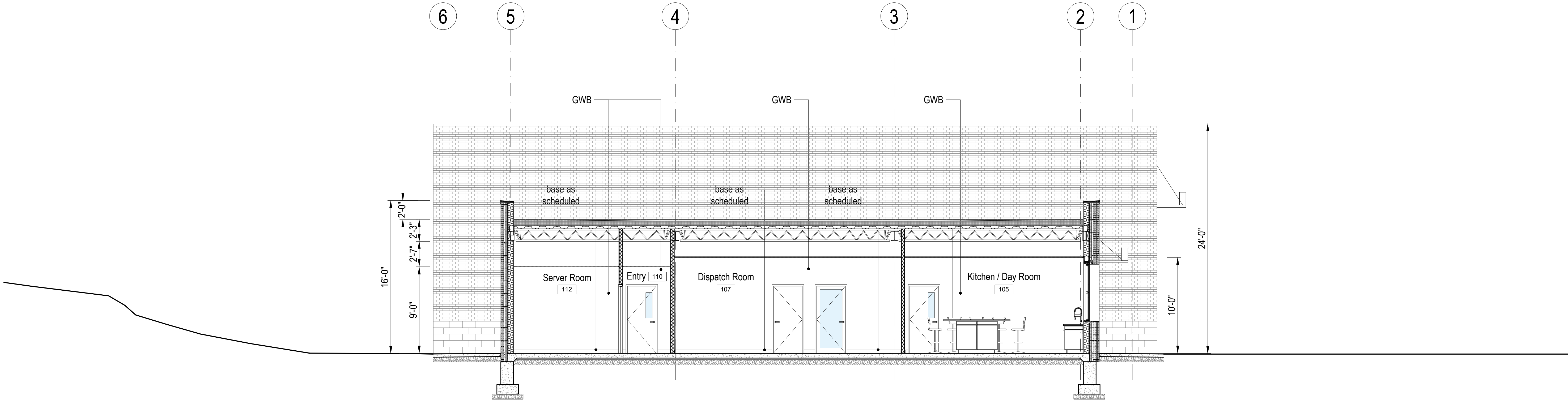
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Drawn By

TGAS

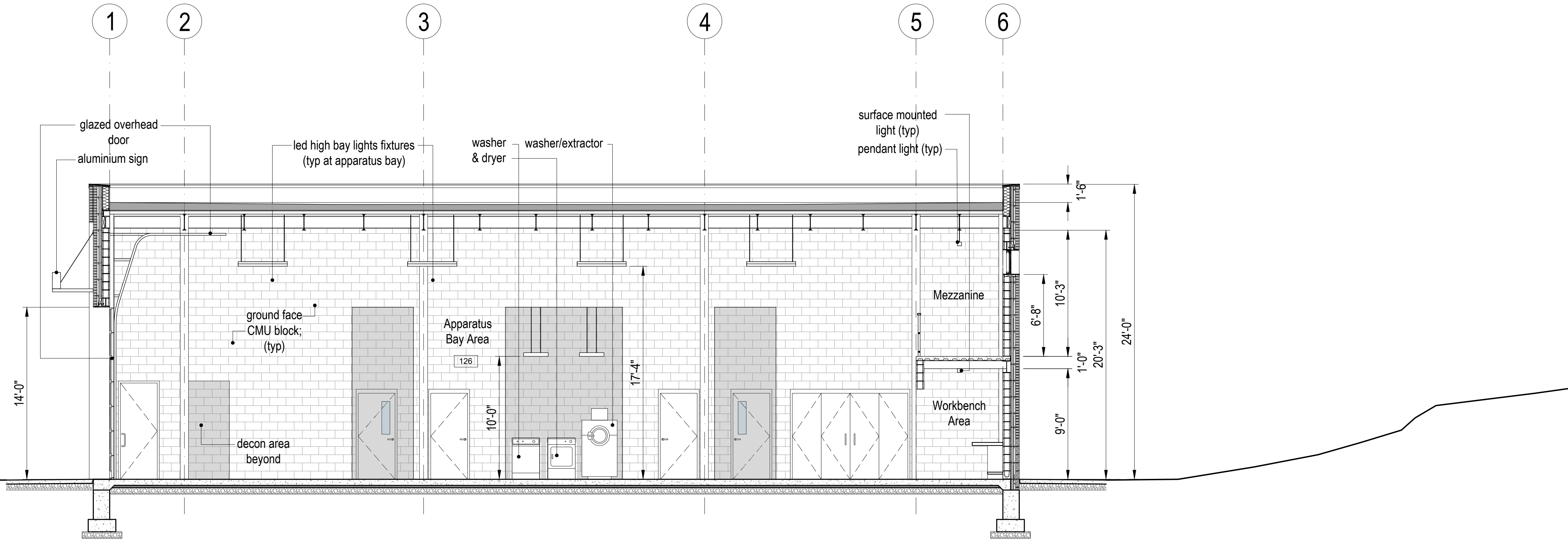
Drawing Number

A-302



1 Building Section

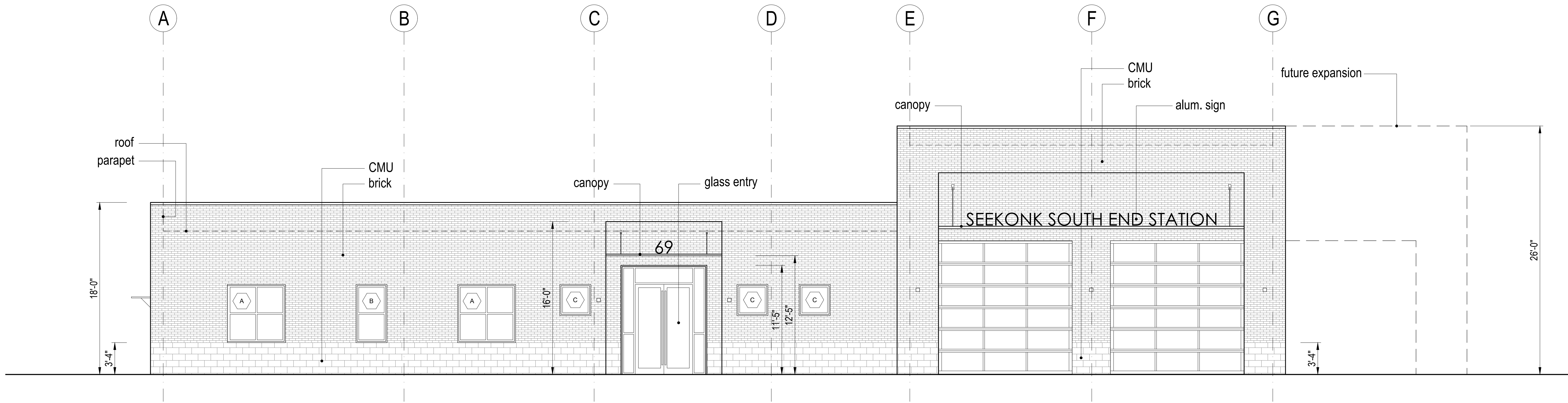
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2 Building Section

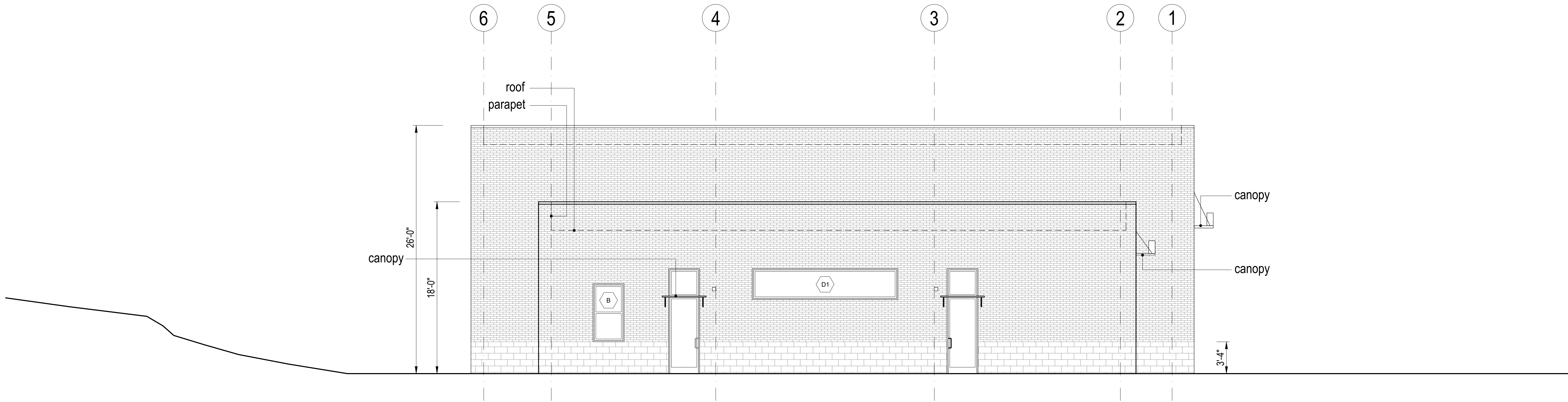
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1 South Elevation

Scale: 3/16" = 1'-0"



2 West Elevation

Scale: 3/16" = 1'-0"

TGAS

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ARCHITECTURE
STUDIO INC

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Project Number
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Project Title
Seekonk South End
Fire Station

69 School St,
Seekonk, MA 02771

Drawing Title
Building Elevations
South & West
Elevations

Date/Issued For
11.30.22

100% Design Development

NOT FOR
CONSTRUCTION

TGAS

Print 24x36

Scale
3/16" = 1'-0"

Drawn By
TGAS

Drawing Number

A-201

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Project Title
Seekonk South End
Fire Station

69 School St,
Seekonk, MA 02771

Drawing Title
Building Elevations
North & East
Elevations

Date/Issued For
11.30.22

100% Design Development

NOT FOR
CONSTRUCTION

TGAS

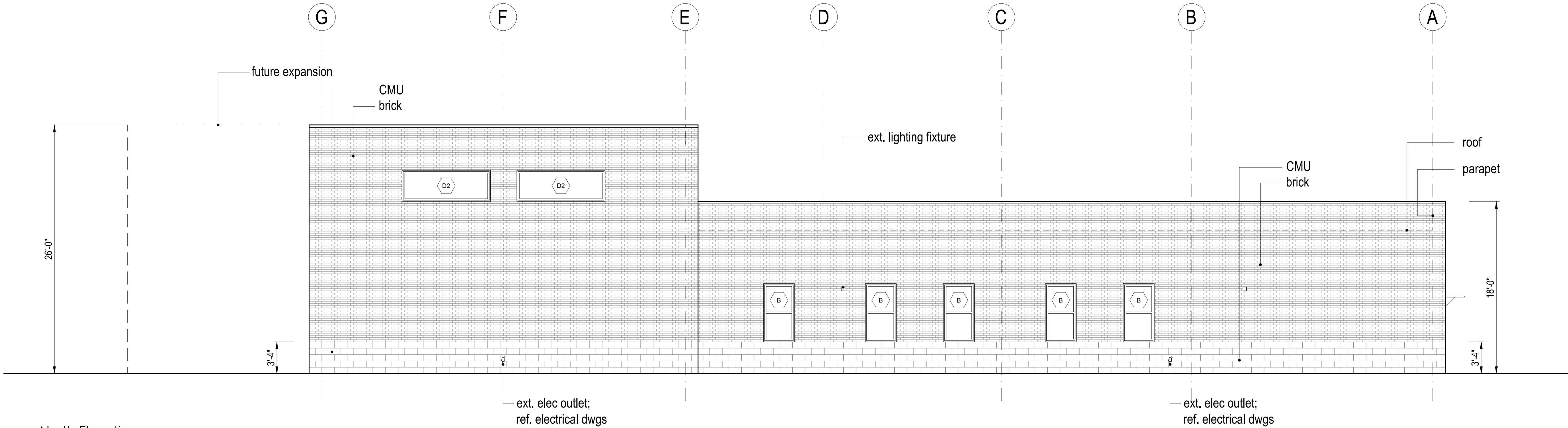
Print 24x36

Scale
3/16" = 1'-0"

Drawn By
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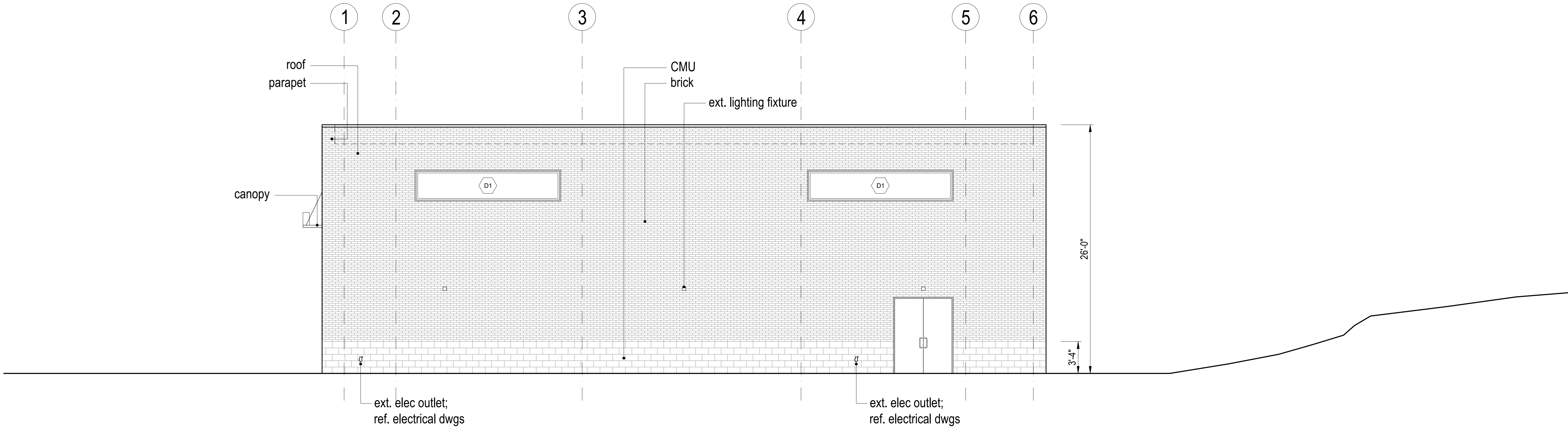
Drawing Number

A-202



1 North Elevation

Scale: 3/16" = 1'-0"



2 East Elevation

Scale: 3/16" = 1'-0"

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Project Number
2208

Project Title
Seekonk South End
Fire Station

69 School St,
Seekonk, MA 02771

Drawing Title

Building Elevations
South & West
Elevations

Date/Issued For
11.30.22

100% Design Development

NOT FOR
CONSTRUCTION

TGAS

Print 24x36

Scale
3/16" = 1'-0"

Drawn By
TGAS

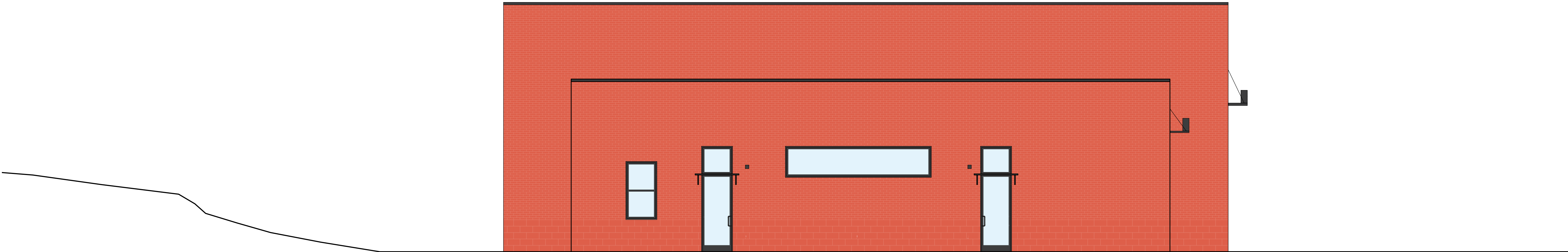
Drawing Number

A-201a



1 South Elevation

Scale: 3/16" = 1'-0"



2 West Elevation

Scale: 3/16" = 1'-0"

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TGAS

THE GALANTE
ARCHITECTURE
STUDIO INC

146 MT AUBURN ST CAMBRIDGE, MA 02138

6 1 7 5 7 6 2 5 0 0

WWW.GALANTEARCHITECTURE.COM

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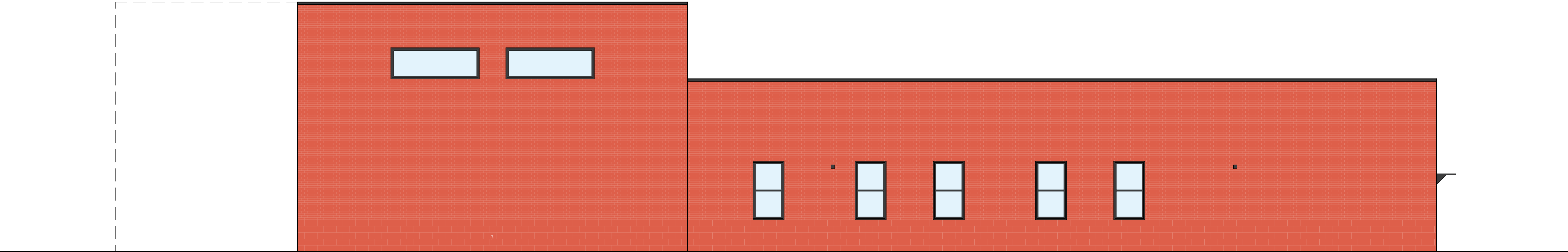
Print 24x36

Scale
3/16" = 1'-0"

Drawn By
TGAS

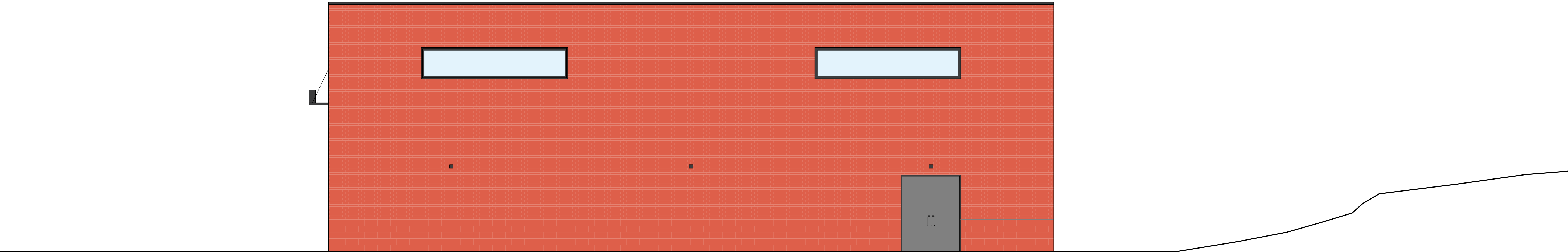
Drawing Number

A-202a



1 North Elevation

Scale: 3/16" = 1'-0"



2 East Elevation

Scale: 3/16" = 1'-0"

NEW FIRESTATION
TOWN OF SEEKONK
SCHOOL STREET
SEEKONK, MA

7-Dec-22

TGAS - Design Development Cost Estimate

SUMMARY		8,305 GSF	
DIV.2	EXISTING CONDITIONS / SITE DEMOLITION		No Work
DIV.3	CONCRETE	\$24.32 /GSF	\$202,000
DIV.4	MASONRY - Filed Sub-Bid	\$67.91 /GSF	\$564,000
DIV.5	METALS	\$53.70 /GSF	\$446,000
	05 00 01 -Miscellaneous and Ornamental Iron - Filed Sub-Bid		\$98,398
DIV.6	WOOD, PLASTICS AND COMPOSITES	\$15.05 /GSF	\$125,000
DIV.7	THERMAL AND MOISTURE PROTECTION	\$50.45 /GSF	\$419,000
	07 00 01 - Roofing and Flashing - Filed Sub-Bid		\$284,138
	07 00 02 - Waterproofing, Damp-Proofing and Caulking - Filed Sub-Bid		\$52,191
DIV.8	DOORS AND WINDOWS	\$22.76 /GSF	\$189,000
	08 00 01 - Glass and Glazing - Filed Sub-Bid		\$0
	08 00 02 - Metal Windows - Filed Sub-Bid		\$30,514
DIV.9	FINISHES	\$49.13 /GSF	\$408,000
	09 00 01 - Acoustical Tile - Filed Sub-Bid		\$30,160
	09 00 02 - Resilient Floors - Filed Sub-Bid		\$100,575
	09 00 03 - Tile - Filed Sub-Bid		\$31,530
	09 00 04 - Painting - Filed Sub-Bid		\$33,375
DIV.10	SPECIALTIES	\$13.61 /GSF	\$113,000
DIV.11	EQUIPMENT	\$4.46 /GSF	\$37,000
DIV.12	FURNISHINGS	\$0.12 /GSF	\$1,000
DIV.13	SPECIAL CONSTRUCTION	\$0.00 /GSF	No Work
DIV.21	FIRE SUPPRESSION - Filed Sub-Bid	\$8.07 /GSF	\$67,000
DIV.22	PLUMBING - Filed Sub-Bid	\$50.57 /GSF	\$420,000
DIV.23	HVAC - Filed Sub-Bid	\$55.51 /GSF	\$461,000
DIV.26	ELECTRICAL - Filed Sub-Bid	\$131.49 /GSF	\$1,092,000
DIV.31	EARTHWORK	\$59.96 /GSF	\$498,000
DIV.32	SITE IMPROVEMENTS	\$23.72 /GSF	\$197,000
DIV.33	SITE UTILITIES	\$20.83 /GSF	\$173,000
SUBTOTAL, Rounded		\$651.66 /GSF	\$5,412,000
GENERAL CONDITIONS AND OH & P		\$117.28 /GSF	18% \$974,000
SUBTOTAL		\$768.93 /GSF	\$6,386,000
DESIGN CONTINGENCY		\$38.41 /GSF	5% \$319,000
SUBTOTAL		\$807.34 /GSF	\$6,705,000
CONSTRUCTION/OWNER CONTINGENCY		\$0.00 /GSF	By Owner
SUBTOTAL - TODAY'S DOLLARS		\$807.34 /GSF	\$6,705,000
ESCALATION TO MIDPOINT OF CONSTRUCTION - ROUGHLY JAN. 2024		\$61.89 /GSF	7.7% \$514,000
			\$7,219,000
		\$866.95 /GSF	SAY \$7,200,000

PROBABLE CONSTRUCTION COST RANGE BETWEEN

\$6,500,000	AND	\$7,900,000
\$783		\$951
\$/GSF		\$/GSF

NEW FIRESTATION
TOWN OF SEEKONK
SCHOOL STREET
SEEKONK, MA

7-Dec-22

TGAS - Design Development Cost Estimate

AREAS

Floor Area

First Floor	7,965	GSF
- Entry	0	GSF
- Mezzanine	340	GSF
	8,305	GSF

Exterior Wall Area

- Brick	6,192	sf
- CMU	1,175	sf
- Glass Entry	0	sf
- Windows	407	sf
- Overhead Doors	392	sf
	8,166	sf

Roofing Area

Flat Roof Area	7,965	sf
Roofing at Parapet Back-Up	812	sf
	8,777	sf

Site Area

Site Area within Property Line	42,070	sf
Site Area between Property Line and Street	5,020	sf
	47,090	sf

1.08 Acre

Breakdown by Coverage

Building Footprint	7,965	sf
Parking and Training Area Paving	8,110	sf
Apparatus Area Paving	2,510	sf
Sidewalks along the Street in Front of the Property	1,240	sf
Radio Tower Pad	320	sf
Generator Pad	220	sf
Paving under Flagpole and Sign	140	sf
Walkways	2,310	sf
Loam and Seed Disturbed Areas	24,275	sf
	47,090	sf

NEW FIRESTATION
TOWN OF SEEKONK
SCHOOL STREET
SEEKONK, MA

7-Dec-22

TGAS - Design Development Cost Estimate

DIVISION 2 - EXISTING CONDITIONS

02 41 13 - UTILITY LINE REMOVALS

Utility Line Removals

Included with Sitework

\$0	\$0
\$0	\$0

DIVISION 3 - CONCRETE

\$202,000

03 30 00 - CAST-IN-PLACE CONCRETE

Foundations :-

Column Footings

35 cy \$690 \$24,150

Continuous Footings

20 cy \$720 \$14,400

Foundation Walls

69 cy \$1,080 \$74,520

Pilasters / Column Bases

Step Footings / Walls [according to grade changes]

Included Above

Slab On Grade

Not Required

- 4" thick

60 cy \$560 \$33,600

- Sunken Floor at Server Room and Dispatch

102 lf \$25 \$2,550

- 6" thick

57 cy \$530 \$30,210

- Control Joints

1,000 lf \$10 \$10,000

- Smooth Trowel Finish [per finish schedule]

3,080 sf \$1.60 \$4,928

- Install Trench Drain (Provided by Others)

56 lf \$15 \$840

Vapor Barrier

9,160 sf See Div. 7

Set Anchor Bolts

30 sets \$55 \$1,650

Grout Base Plates

30 ea \$45 \$1,350

Miscellaneous Embedded Items

1 ls \$2,500 \$2,500

Wheel Guards

Not Included

Structure

Misc. Equipment Pads

1 ls \$1,000 \$1,000

Hardeners

Not Included

\$201,698

\$201,698

DIVISION 4 - MASONRY

\$564,000

04 00 01 - MASONRY WORK - Filed Sub-Bid

04 05 13 - MASONRY MORTARS [Part of Section 04 00 01]

04 22 00 - UNIT MASONRY [Part of Section 04 00 01]

Exterior:

Face Brick

6,192 sf \$50 \$309,600

3 5/8" Ground Face CMU at Exterior Wall, as Exterior Finish

1,175 sf \$30 \$35,265

3 5/8" Ground Face CMU at Exterior Wall, as Back-Up

2,986 sf \$32 \$95,552

Interior:

- 8" CMU at Wall Types1, 1A, 1B, 1C, and 1D as 8" Ground Face (1 side only) CMU

3,630 sf \$34 \$123,420

\$563,837

\$563,837

\$563,837

\$563,837

NEW FIRESTATION
TOWN OF SEEKONK
SCHOOL STREET
SEEKONK, MA

7-Dec-22

TGAS - Design Development Cost Estimate

DIVISION 5 - METALS **\$446,000**

05 00 01 - MISCELLANEOUS and ORNAMENTAL IRON - Filed Sub-Bid

05 50 00 - METAL FABRICATIONS [Part of 05 00 01]

Miscellaneous Metals [Interior]	8,305	sf	\$5	\$41,525	
- Miscellaneous Lintels				Included Above	
- Embedded Galv Angles at OHD Sills				Included Above	
- Toilet Partition Supports				Included Above	
- Anchor Bolts				Included Above	
3/8" Steel Frame around Window Openings	362	lf	\$25	\$9,050	
3/8" Steel Frame around Overhead Door Openings and Area Above	130	lf	\$25	\$3,250	
Aluminum Canopy at OH Doors, Custom	96	sf	\$100	\$9,600	
Aluminum Canopies at Entries with Transoms				Included with Div. 8	
Angle / Seismic Bracing at CMU Partitions (Only)	163	lf	\$110	\$17,930	
Bollards at Overhead Doors	4	ea	\$1,100	\$4,400	
Overhead Door Frames	2	ea	\$2,000	\$4,000	
Mezzanine					
- 36" High Pipe Guardrail incl. Gate	38	lf	\$120	\$4,560	
- Mezzanine Stairs / Ladder				None Shown	
Miscellaneous Metals [Exterior Wall]	8,166	sf	\$0.50	\$4,083	
				<u>\$98,398</u>	\$98,398

05 12 00 - STRUCTURAL STEEL FRAMING

Structural Steel	34	ton	\$5,500	\$187,000	
Allowances For Additional Steel	6.4	ton	\$5,500	\$35,200	
- Connections [10% additional steel]	3.4	ton		Included Above	
- Framing at Openings	1	ton		Included Above	
- Misc. Dunnage and Equipment Support	2	ton		Included Above	
				<u>\$222,200</u>	\$222,200

05 21 00 - STEEL JOIST FRAMING

Bar Joist	7	ton	\$3,500	\$24,500	
				<u>\$24,500</u>	\$24,500

05 30 00 - METAL DECKING

1 1/2" x 22ga Galv Steel Deck	7,965	sf	\$12	\$95,580	
				<u>\$95,580</u>	\$95,580

05 40 00 - COLD-FORMED METAL FRAMING

Metal Studs at Exterior Wall Back-Up and Interior Partitions				Included within Div. 9	
				\$0	\$0

05 51 33 - METAL LADDERS

- Galvanized Steel Roof Ladder w/Cage	1	ls	\$5,000	\$5,000	
- Ships ladder at Roof Elevation Change				None Shown	
				<u>\$5,000</u>	\$5,000
				<u>\$445,678</u>	\$445,678

DIVISION 6 - WOOD, PLASTICS and COMPOSITES **\$125,000**

06 10 00 - ROUGH CARPENTRY

Plywood Decking at Mezzanine	340	sf	\$6	\$2,040	
8 inch Light Ga. Joists at Mezzanine	340	sf	\$10	\$3,400	
Interior Blocking	8,305	sf	\$2	\$16,610	
Roof Blocking					
- Parapet Blocking	450	lf	\$10	\$4,500	
- Cant Strip	510	lf	\$6	\$3,060	
- Miscellaneous Blocking	1	ls	\$1,000	\$1,000.00	
Unload and Distribute Doors and Frames	20	hrs	\$100	\$2,000	
Install Doors / Frames and Hardware					
- Exterior	21	hrs	\$100	\$2,100	
- Interior	204	hrs	\$100	\$20,400	
Install Toilet Accessories	24	hrs	\$100	\$2,400	
				<u>\$57,510</u>	\$57,510

06 16 00 - SHEATHING

Roof Sheathing	7,965	sf	\$4	\$31,860	
				<u>\$31,860</u>	\$31,860

06 20 00 - FINISH CARPENTRY

Running Trim [window sills]	1	Allowance	\$2,000	\$2,000	
Report Room				Assumed to be Furniture	
Break Room					
- Base and Wall Cabinetry	11	lf	\$600	\$6,600	
- Solid Surface Counter Top	11	lf	\$150	\$1,650	
Kitchen					
- Base and Wall Cabinetry	26	lf	\$600	\$15,600	
- Solid Surface Counter Top	22	lf	\$150	\$3,300	
- Solid Surface Counter Top - Island	25	sf	\$100	\$2,500	
Restrooms					
- Vanity and Counter [3'-6"]	2	ea	\$1,750	\$3,500	
				<u>\$35,150</u>	\$35,150

06 41 16 - PLASTIC-LAMINATE CLAD ARCHITECTURAL MILLWORK

Incl. with Section 06 20 00

06 61 40 - SOLID SURFACE FABRICATIONS

Incl. with Section 06 20 00

\$124,520 **\$124,520**

NEW FIRESTATION
TOWN OF SEEKONK
SCHOOL STREET
SEEKONK, MA

7-Dec-22

TGAS - Design Development Cost Estimate

DIVISION 7 - THERMAL and MOISTURE PROTECTION					\$419,000
07 00 01 - ROOFING and FLASHING - Filed Sub-Bid					
07 54 23 - THERMOPLASTIC-POLYOLEFIN ROOFING [Part of 07 00 01]					
- Membrane Roof incl. Insulation	7,965	sf	\$34	\$270,810	
- Membrane Turn-up at Parapet	812	sf	\$12	\$9,744	
Walkway Pads - say 5% of Area	398	sf	\$9	\$3,584	
				<u>\$284,138</u>	\$284,138
07 00 02 - WATERPROOFING, DAMPROOFING and CAULKING - Filed Sub-Bid					
07 27 26 - FLUID-APPLIED NON-PERMEABLE MEMBRANE AIR BARRIERS [Part of 07 00 02]					
07 27 27 - FLUID-APPLIED MEMBRANE AIR BARRIERS [Part of 07 00 02]					
07 92 00 - JOINT SEALANTS [Part of 07 00 02]					
Dampproofing at Foundation Wall	1,950	sf	\$2.50	\$4,875	
Vapor Barrier at slab on grade	9,160	sf	\$0.60	\$5,496	
Fluid-Applied Membrane Air Barrier					
- Exterior Wall	7,367	sf	\$5	\$36,837	
- Soffits				None Shown	
Caulking and Sealants	8,305	sf	\$0.60	\$4,983	
				<u>\$52,191</u>	\$52,191
07 21 00 - THERMAL INSULATION					
Rigid Insulation at Exterior Wall					
- Exterior Wall	7,367	sf	\$4	\$29,470	
- Soffits				None Shown	
Perimeter Insulation [assumed 4'-0"]	1,560	sf	\$4	\$6,240	
Batt Insulation at Exterior Wall				Included w/Division 9	
Miscellaneous Insulation	1	ls	\$5,000	\$5,000	
				<u>\$40,710</u>	\$40,710
07 42 13 - FORMED METAL WALL PANELS					
<i>Mechanical Screen at Roof</i>					
- Structural System				None Shown	
- Metal Panels				None Shown	
				<u>\$0</u>	\$0
07 42 16 - ZINC ALLOY METAL WALL PANELS					
- Metal Panels				None Shown	
				<u>\$0</u>	\$0
07 62 00 - SHEET METAL FLASHING and TRIM					
Parapet Caps, as Aluminum Coping	453	lf	\$65	\$29,445	
<i>Counter Flashing</i>					
- Parapets	436	lf	\$15	\$6,540	
- Building To Roof	60	lf	\$15	\$900	
Scuppers / Rainwater Management				None Shown - Roof Drains incl. Overflow Drains	
Miscellaneous Flashings [Roof Top Curbs]	1	ls	\$2,500	\$2,500	
				<u>\$39,385</u>	\$39,385
07 84 00 - FIRESTOPPING PENETRATIONS, JOINTS AND PERIMETER FIRE CONTAINMENT					
Fire Stop Systems	8,305	sf	\$0.30	\$2,492	
				<u>\$2,492</u>	\$2,492
				<u>\$418,916</u>	\$418,916

NEW FIRESTATION
TOWN OF SEEKONK
SCHOOL STREET
SEEKONK, MA

7-Dec-22

TGAS - Design Development Cost Estimate

DIVISION 8 - OPENINGS **\$189,000**

08 00 01 - GLASS and GLAZING - Filed Sub-Bid
08 41 26 - ALL GLASS ENTRANCES [Part of 08 00 01]
08 88 00 - GLASS and GLAZING [Part of 08 00 01]

08 00 02 - METAL WINDOWS - Filed Sub-Bid

Exterior Windows	407	sf	\$75	\$30,514	
				\$30,514	\$30,514

08 11 13 - HOLLOW METAL DOORS and FRAMES

Door Type

1	Glazed Double Door - Steel				
	6-0 x 8-0 - 100A including Frame Type 1B Transom and Sidelights - 1 location	94	sf	\$130	\$12,220
	6-0 x 8-0 - 100B including Frame Type 1B Transom and Sidelights - 1 location	94	sf	\$130	\$12,220
2	HM Door				
	3-0 x 7-0	3	lvs	\$400	\$1,200
3	HM Sliding Door - Frameless				
	3-4 x 8-0	1	lvs	\$425	\$425
5	Hollow Metal Double Door - Bifold				
	12-0 x 7-0	1	loc	\$1,200	\$1,200
	9-5 x 7-0	1	loc	\$1,000	\$1,000
7	HM Door - Glazed				
	3-0 x 8-0	2	lvs	\$4,500	\$9,000
10	Hollow Metal Double Door				
	4-0 x 7-0	1	pr	\$700	\$700
	6-0 x 7-0	1	pr	\$800	\$800
11	Hollow Metal Double Door				
	6-0 x 7-10	1	pr	\$800	\$800
12	Hollow Metal Door				
	3-0 x 7-10	1	lvs	\$425	\$425

Frame Type

1B	HM Frame				
2	HM Frame				
	3-0 x 7-10	1	ea	\$180	\$180
	6-0 x 7-10	1	ea	\$350	\$350
3	HM Frame				
	3-0 x 7-0	7	ea	\$180	\$1,260
	4-0 x 7-0	1	ea	\$200	\$200
	6-0 x 7-0	1	ea	\$350	\$350
	9- 4 7/8 x 7-0	1	ea	\$400	\$400
4	HM Frame				
				Incl. with Door Above	
					\$42,730

08 14 00 - WOOD DOORS

Door Type:

2	Wood Door				
	3-0 x 7-0	13	lvs	\$400	\$5,200
5	Wood Double Door - Bifold				
	8-0 x 7-0	1	loc	\$800	\$800
6	Wood Door with Vision Lite				
	3-0 x 7-0	3	lvs	\$750	\$2,250
7	Wood Door - Glazed				
	3-0 x 7-0	2	lvs	\$1,000	\$2,000
8	Wood Double Door with Vision Lite - Uneven Pr				
	4-6 x 7-0	1	pr	\$1,500	\$1,500
9	Not Used				

Frame Type:

2	Wood Frame				
	3-0 x 7-0	18	ea	\$200	\$3,600
	4-6 x 7-0	1	ea	\$250	\$250
	8-0 x 7-0	1	ea	\$400	\$400
	12-0 x 7-0	1	ea	\$500	\$500
				\$16,500	\$16,500

08 31 00 - ACCESS DOORS and FRAMES

Access Doors and Frames	1	Allowance	\$1,000	\$1,000	
				\$1,000	\$1,000

08 36 13 - SECTIONAL OVERHEAD DOORS

OH Door Aluminum Overhead Doors - 14'-0"x 14'-0"	2	ea	\$16,000	\$32,000	
				\$32,000	\$32,000

NEW FIRESTATION
TOWN OF SEEKONK
SCHOOL STREET
SEEKONK, MA

7-Dec-22

TGAS - Design Development Cost Estimate

DIVISION 8 - OPENINGS

08 41 13 - ALUMINUM FRAMED ENTRANCES and STOREFRONTS

Door Type

Frameless Glass Entry
1A - Xc Doors 100A
4 Glazed Door with Sidelight - Frameless
5-0 x 7-0
7-11 x 7-0

0	sf	\$175	\$0	
0	pr	\$9,000	\$0	
35	sf	\$200	\$7,000	
56	sf	\$200	\$11,200	
			\$18,200	\$18,200

08 62 23 - TUBULAR DAYLIGHTING DEVICES

Pre Manufactured Tubular Skylights say 21" x 21"

3	ea	\$3,000	\$9,000	
			\$9,000	\$9,000

08 63 00 - METAL FRAMED SKYLIGHTS

Entry Area Skylight - 8' x 13'

1	Allowance	\$10,000	\$10,000	
			\$10,000	\$10,000

08 71 00 - DOOR HARDWARE

Hardware

45	lvs	\$650	\$29,250	
			\$29,250	\$29,250

08 87 00 - GLAZING SURFACE FILMS

None Shown

			\$0	
			\$0	\$0
			\$189,194	\$189,194

NEW FIRESTATION
TOWN OF SEEKONK
SCHOOL STREET
SEEKONK, MA

7-Dec-22

TGAS - Design Development Cost Estimate

DIVISION 9 - FINISHES						\$408,000
09 00 01 - ACOUSTICAL TILE - Filed Sub-Bid						
09 51 00 - ACOUSTICAL CEILINGS [Part of Section 09 00 01]						
- ACT Ceilings	3,770	sf	\$8	\$30,160		
				\$30,160		\$30,160
09 00 02 - RESILIENT FLOORS - Filed Sub-Bid						
09 65 13 - RESILIENT WALL BASE [Part of Section 09 00 02]						
09 65 16 - RESILIENT SHEET FLOORING [Part of Section 09 00 02]						
09 65 19 - RESILIENT TILE FLOORING [Part of Section 09 00 02]						
- Rubber	6,535	sf	\$10	\$65,350		
- Rubber Mats - Fitness Room Floor	150	sf	\$18	\$2,700		
- Carpet Tile	575	sf	\$5	\$2,875		
- Raised Floor at Dispatch and Server Room incl. Portion of Corridor Linking Rooms	880	sf	\$30	\$26,400		
- Rubber Base	1,300	lf	\$2.50	\$3,250		
				\$100,575		\$100,575
09 00 03 - TILE - Filed Sub-Bid						
09 30 13 - CERAMIC TILE [Part of Section 09 00 03]						
- Ceramic Tile Flooring	385	sf	\$23	\$8,855		
- Ceramic Tile Base - 3" x 6"	175	lf	\$21	\$3,675		
- Ceramic Tile Wall Finish - 7'-0 high	950	sf	\$20.00	\$19,000		
				\$31,530		\$31,530
09 00 04 - PAINTING - Filed Sub-Bid						
09 90 00 - PAINTING and COATING [Part of Section 09 00 04]						
Paint CMU	5,730	sf	\$2.50	\$14,325		
Paint GWB	6,750	sf	\$1.50	\$10,125		
Paint Doors and Frames						
- HM and Wood Frames	33	ea	\$100	\$3,300		
- HM Doors	45	lvs	\$125	\$5,625		
				\$33,375		\$33,375
09 21 00 - GYPSUM BOARD ASSEMBLIES						
Exterior Wall Backup [incl parapets]	3,945	sf	\$22	\$86,801		
- 5/8" GWB				Included Above		
- 6" Metal Stud				Included Above		
- Vapor Barrier [Interior]				Included Above		
- Batt Insulation				Included Above		
- Plywood Sheathing				Included Above		
- Added wall Thickness at Front of Apparatus Bay	0	sf	\$5.00	\$0		
GWB Soffit at Skylight/Entry Area	1	ls	\$3,500	\$3,500		
GWB Fascia/Soffit at Skylight				Included Above		
Interior Partitions						
- Finishes Applied to CMU Partition Type 1A	224	sf	\$15.00	\$3,360		
- Finishes Applied to CMU Partition Type 1B	126	sf	\$13.50	\$1,701		
- Finishes Applied to CMU Partition Type 1C	364	sf	\$6.50	\$2,366		
- Finishes Applied to CMU Partition Type 1D	294	sf	\$6.65	\$1,955		
Interior Partitions, Complete						
- Partition Type 3	1,204	sf	\$18.00	\$21,672		
- Partition Type 3A	154	sf	\$16.50	\$2,541		
- Partition Type 4	3,094	sf	\$15.00	\$46,410		
- Partition Type 5	700	sf	\$15.30	\$10,710		
- Partition Type 6	1,316	sf	\$15.15	\$19,937		
- Partition Type 7	42	sf	\$19.15	\$804		
- Partition Type 7 as Plumbing Wall	280	sf	\$19.55	\$5,474		
- Xc Cement Board At CT on Walls	950	sf	\$2.00	\$1,900		
				\$209,132		\$209,132
09 67 23 - RESINOUS FLOORING						
- Epoxy	165	sf	\$22	\$3,630		
- Epoxy - Mezzanine	0	sf	\$22	\$0		
				\$3,630		\$3,630
Miscellaneous Items						
Ceilings	7,965	sf				
- Exposed Structure at Apparatus Bay, Etc.	4,035	sf		Exposed Structure		
- Exposed Structure at Entry/Skylight	160	sf		Exposed Structure		
				\$0		\$0
				\$408,402		\$408,402

NEW FIRESTATION
TOWN OF SEEKONK
SCHOOL STREET
SEEKONK, MA

7-Dec-22

KGAS - Design Development Cost Estimate

DIVISION 10 - SPECIALTIES						\$113,000
10 11 00 - MAGNETIC GLASS MARKERBOARDS						
Magnetic Glass Markerboards	1	Allowance	\$5,000	\$5,000		
				\$5,000	\$5,000	
10 11 23 - TACKBOARDS						
Tackboards	1	Allowance	\$2,500	\$2,500		
				\$2,500	\$2,500	
10 14 19 - CUT METAL LETTERS						
Cut Metal Letters - 16" Tall	22	ea	\$425	\$9,350		
				\$9,350	\$9,350	
10 14 21 - ARCHITECTURAL DOOR SIGNS						
ADA and MAAB Compliant Interior Signage and Graphics	1	ls	\$5,000	\$5,000		
				\$5,000	\$5,000	
10 14 53 - TRAFFIC SIGNAGE						
Traffic Signage	1	ls	Included with Sitework			
				\$0	\$0	
10 28 00 - TOILET ACCESSORIES						
Accessible Restrooms - 130 and 131						
- 42" Grab Bars	5	sets	\$60	\$300		
- Soap Dispenser - Bobrick: B-4112	5	ea	\$90	\$450		
- Toilet Paper Holder - Bobrick: B-2888	5	ea	\$86	\$430		
- Framed Mirror 2'x3'	5	ea	\$235	\$1,175		
- Waste Receptacle - Bobrick: B-220816	5	ea	\$296	\$1,480		
- Sanitary Napkin Disposal - Bobrick: B-270	5	ea	\$42	\$210		
- Shower Curtain Rod - Bobrick: B-6047 x 36	3	ea	\$36	\$108		
- Shower Curtain Ring - Bobrick: (7x) 204-1	21	ea	\$2	\$32		
- Shower Curtain - Bobrick: 204-2	3	ea	\$42	\$126		
- Mop and Broom Holder	1	ea	\$0	\$0		
Install Toilet Accessories				See Division 6		
				\$4,311	\$4,311	
10 28 13 - ELECTRIC HAND DRYERS						
Electric Hand Dryers				None Shown		
				\$0	\$0	
10 44 16 - FIRE EXTINGUISHERS AND CABINETS						
Portable fire extinguishers	3	ea	\$100	\$300		
Fire extinguisher cabinets-semi recessed	3	ea	\$300	\$900		
				\$1,200	\$1,200	
10 51 00 - GEAR RACK STORAGE COMPONENTS						
24" Wide Turnout Gear Lockers	17	ea	\$2,500	\$42,500		
				\$42,500	\$42,500	
10 51 01 - PHENOLIC LOCKERS						
Bunk Room Lockers - 24 x 84 Phenolic Lockers	20	ea	\$1,900	\$38,000		
				\$38,000	\$38,000	
10 75 00 - FLAGPOLES						
Aluminum Flagpole to Withstand 100MPH min	1	ea	\$5,000	\$5,000		
3'x5' American Flag (CFCI)	1	ea	\$200	\$200		
				\$5,200	\$5,200	
				\$113,061	\$113,061	
DIVISION 11 - EQUIPMENT						\$37,000
11 23 00 - LAUNDRY SERVICE EQUIPMENT						
Top Load Washer	2	ea	\$2,500	\$5,000		
Single Load Dryer	2	ea	\$2,300	\$4,600		
				\$9,600	\$9,600	
11 23 26 - COMMERCIAL WASHERS AND EXTRACTORS						
Extractor 65 lb Capacity	1	ea	\$16,000	\$16,000		
Stainless Steel Sink at Decon Area				Included w/Plumbing		
				\$16,000	\$16,000	
11 40 00 - FOOD SERVICE EQUIPMENT						
Refrigerator 27.80 cu ft	1	ea	\$2,200	\$2,200		
Dishwasher	1	ea	\$1,000	\$1,000		
Microwave 2.20 cu ft	1	ea	\$800	\$800		
Range - 4 Burner	1	ea	\$3,000	\$3,000		
Range Hood				None Shown		
Disposal				None Shown		
				\$7,000	\$7,000	
11 90 00 - OTHER EQUIPMENT and ACCESSORIES						
Pot Racks				None Shown		
Shelving Units	156	lf	\$25	\$3,900		
Vertical File Cabinets	4	ea		By Others		
Fitness Equipment	5	ea		By Others		
				\$3,900	\$3,900	
				\$36,500	\$36,500	

NEW FIRESTATION
TOWN OF SEEKONK
SCHOOL STREET
SEEKONK, MA

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TGAS - Design Development Cost Estimate

DIVISION 12 - FURNISHINGS **\$1,000**

12 24 00 - WINDOW SHADES					
Manually Operated Blinds	263	sf	\$5	\$1,314	
				\$1,314	\$1,314
12 48 13 ENTRANCE FLOOR MATS					
Recessed Floor Mat at Entry	0	sf	\$75	\$0	
Walk Off Mats at Secondary Entries	0	ea	\$110	By Owner	
				\$0	\$0
				\$1,314	\$1,314

DIVISION 21 - FIRE PROTECTION **\$67,000**

Equipment

Double Check Valve Backflow Preventor Assembly - 8"	1	ea	\$9,424	\$9,424	
Fire Protection Specialties	1	ls	\$6,223	\$6,223	
Wet Sprinkler Building Coverage - Mezzanine	275	sf	\$5.00	\$1,375	
Wet Sprinkler Building Coverage - Apparatus Bay	2,825	sf	\$5.00	\$14,125	
Wet Sprinkler Building Coverage - Office	4,800	sf	\$5.50	\$26,400	
				\$57,547	\$57,547

Trade Requirements

Coordination	32	hrs	\$135	\$4,320	
Project Supervision	40	hrs	\$135	\$5,400	
				\$9,720	\$9,720
				\$67,267	\$67,267

NEW FIRESTATION
TOWN OF SEEKONK
SCHOOL STREET
SEEKONK, MA

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TGAS - Design Development Cost Estimate

DIVISION 22 - PLUMBING					\$420,000
Equipment					
Water Meter	1	ea	\$2,546	\$2,546	
Backflow Preventor Assembly - 2"	1	ea	\$3,040	\$3,040	
Gas Fired Water Heater	1	ea	\$11,020	\$11,020	
Recirc Pump	1	ea	\$1,046	\$1,046	
Expansion Tank	1	ea	\$2,770	\$2,770	
Thermostatic Mixing Valve	1	ea	\$3,665	\$3,665	
Oil/Water Separator			Included with Sitework		
Air Compressor and Dryer	1	ea	\$15,040	\$15,040	
Trap Primers	10	ea	\$408	\$4,080	
Make Up Water Station	1	ea	\$1,244	\$1,244	
Plumbing Specialties	1	ls	\$6,563	\$6,563	
Plumbing Equipment Connections	18	ea	\$645	\$11,610	
				\$62,624	\$62,624
Fixtures					
Water Closets	5	ea	\$1,349	\$6,745	
Lavatories	5	ea	\$1,234	\$6,170	
Urinals	2	ea	\$1,208	\$2,416	
Showers	3	ea	\$1,943	\$5,829	
Sinks - 1 Bay	2	ea	\$1,270	\$2,540	
Sink - 2 Bay	1	ea	\$1,655	\$1,655	
Garbage Disposal	1	ea	\$416	\$416	
Sink - Mop	1	ea	\$1,234	\$1,234	
Emergency Shower w/ Mixing Valve	1	ea	\$4,073	\$4,073	
Bottle Fill	1	ea	\$2,756	\$2,756	
Hose Stations - CW/HW	2	ea	\$446	\$892	
Hose Reel - Air	5	ea	\$709	\$3,545	
Ice Machine Box	1	ea	\$184	\$184	
Washer Boxes	2	ea	\$404	\$808	
Dishwasher Connections	2	ea	\$404	\$808	
Wall Hydrants	6	ea	\$341	\$2,046	
Hose Bibbs	2	ea	\$247	\$494	
Floor Drains	5	ea	\$625	\$3,125	
Trench Drains	52	lf	\$159	\$8,268	
Roof Drain Combos	7	ea	\$895	\$6,265	
Clean Outs	24	ea	\$263	\$6,312	
Vent thru Roof	6	ea	\$235	\$1,410	
Fixture Rough Ins	29	ea	\$520	\$15,080	
				\$83,071	\$83,071
Piping					
Water	1,480	lf	\$45.90	\$67,932	
Waste	240	lf	\$85.30	\$20,472	
Vent	150	lf	\$82.70	\$12,405	
Oil Waste	130	lf	\$91.70	\$11,921	
Oil Vent	120	lf	\$87.70	\$10,524	
Storm	430	lf	\$132	\$56,760	
Gas	470	lf	\$52.50	\$24,675	
Compressed Air	200	lf	\$60.40	\$12,080	
Insulation	1,480	lf	\$11.80	\$17,464	
				\$234,233	\$234,233
Trade Requirements					
Coordination	80	hrs	\$135	\$10,800	
Project Supervision	120	hrs	\$135	\$16,200	
Excavation and Backfill	217	cuyd	\$48	\$10,400	
Rigging	1	ls	\$3,098	\$3,098	
				\$40,498	\$40,498
				\$420,426	\$420,426

NEW FIRESTATION
TOWN OF SEEKONK
SCHOOL STREET
SEEKONK, MA

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TGAS - Design Development Cost Estimate

DIVISION 23 - HVAC					\$461,000
Equipment					
Packaged Gas Fired Rooftop Unit - RTU 1A	2	tns	\$2,950	\$5,900	
Packaged Gas Fired Rooftop Unit - RTU 1B	2	tns	\$2,950	\$5,900	
Packaged Gas Fired Rooftop Unit - RTU 2A	3	tns	\$2,950	\$8,850	
Packaged Gas Fired Rooftop Unit - RTU 2B	3	tns	\$2,950	\$8,850	
Packaged Gas Fired Rooftop Unit - RTU 3	2	tns	\$2,950	\$5,900	
Packaged Gas Fired Rooftop Unit - RTU 4	3	tns	\$2,950	\$8,850	
Packaged Gas Fired Rooftop Unit - RTU 5	3.5	tns	\$2,950	\$10,325	
Packaged Gas Fired Rooftop Unit - RTU 6	2	tns	\$2,950	\$5,900	
Gas Fired Rooftop Make Up Air Unit - MAU 1	2,500	cfm	\$6.70	\$16,750	
Energy Recovery Unit - ERU 1	800	cfm	\$8.90	\$7,120	
Exhaust Fan - EF 1	1	ea	\$2,344	\$2,344	
Exhaust Fan - EF 2	1	ea	\$4,938	\$4,938	
Exhaust Fan - EF 3	1	ea	\$2,344	\$2,344	
Plymovent Fans - VEF 1	1	ea	\$3,375	\$3,375	
Plymovent Hose Reels	4	ea	\$788	\$3,152	
Electric Unit Heaters	2	ea	\$1,286	\$2,572	
Electric Wall Heaters	2	ea	\$1,499	\$2,998	
(2) Infrared Radiant Heaters	120	lf	\$329	\$39,480	
RGDs	45	ea	\$263	\$11,835	
				\$157,383	\$157,383
Sheet Metal					
Galvanized	7,200	lbs	\$15.30	\$110,160	
Gas Water Heater Vent	1	ea	\$4,188	\$4,188	
Gas Fired Radiant Heater Vent	2	ea	\$1,917	\$3,834	
Sheet Metal Specialties	1	ls	\$5,490	\$5,490	
Equipment Connections	1	ls	\$15,750	\$15,750	
				\$139,422	\$139,422
Internal Lining					
Sheet Metal - Galvi	4,896	sf	\$5.00	\$24,480	
				\$24,480	\$24,480
Controls					
Packaged Rooftops	8	ea	\$3,580	\$28,640	
Gas Fired Make Up Air Unit	1	ea	\$3,580	\$3,580	
Energy Recovery Unit	1	ea	\$3,580	\$3,580	
Exhaust Fans	3	ea	\$2,060	\$6,180	
Vehicle Exhaust Fan	1	ea	\$2,580	\$2,580	
Electric Unit Heaters	2	ea	\$1,083	\$2,166	
Electric Wall Heaters	2	ea	\$1,083	\$2,166	
Infrared Radiant Heaters	2	ea	\$2,455	\$4,910	
BMS Network	1	ls	\$14,890	\$14,890	
				\$68,692	\$68,692
Commissioning					
Start Up	80	hrs	\$135	\$10,800	
Testing, Adjusting, and Balancing	80	hrs	\$125	\$10,000	
3rd Party Cx Assist	40	hrs	\$135	\$5,400	
				\$26,200	\$26,200
Trade Requirements					
Coordination	80	hrs	\$135	\$10,800	
Project Supervision	120	hrs	\$135	\$16,200	
Crane	1	ls	\$9,850	\$9,850	
Rigging	64	hrs	\$125	\$8,000	
				\$44,850	\$44,850
				\$461,027	\$461,027

NEW FIRESTATION
TOWN OF SEEKONK
SCHOOL STREET
SEEKONK, MA

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TGAS - Design Development Cost Estimate

DIVISION 26 - ELECTRICAL - FILED SUB-BID

DIVISION 26 - BUILDING ELECTRICAL	\$782,000
DIVISION 27 - COMMUNICATIONS	\$84,000
DIVISION 28 - FIRE DETECTION AND ALARMS	\$98,000
DIVISION 26 - ELECTRICAL SITE UTILITIES	<u>\$128,000</u>
	\$1,092,000

NEW FIRESTATION
TOWN OF SEEKONK
SCHOOL STREET
SEEKONK, MA

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TGAS - Design Development Cost Estimate

DIVISION 26 - BUILDING ELECTRICAL **\$782,000**

Normal Power and Distribution

SE Rated 600A 208v Main Breaker CT cabinet	1	ea	\$8,596	\$8,596	
Dist. Panel MDP 600A MCB 120/208v	1	ea	\$17,670	\$17,670	
600A Feeder PVC Copper	25	lf	\$343	\$8,575	
600A Feeder EMT Copper	55	lf	\$490	\$26,950	
100A Feeder EMT Copper	20	lf	\$158	\$3,160	
Secondary Service Grounding System	1	ls	\$6,690	\$6,690	
				\$71,641	\$71,641

Machine and Equipment Power

AC-1 7.5HP 30A 3P 208v Connection	1	ea	\$1,242	\$1,242	
ACD-1 20A 120v Connection	1	ea	\$387	\$387	
EF-1 20A 120v Connection	1	ea	\$487	\$487	
EF-2 20A 120v Connection	1	ea	\$487	\$487	
EF-3 20A 120v Connection	1	ea	\$487	\$487	
ERU-1 30A 3P 208v Connection	1	ea	\$1,099	\$1,099	
EUH-1 30A 2P 208v Connection	2	ea	\$476	\$952	
EWB-1 30A 3P 208v Connection	2	ea	\$476	\$952	
MUA-1 30A 3P 208v Connection	1	ea	\$1,099	\$1,099	
RH-1 20A 120v 208v Connection	3	ea	\$388	\$1,164	
RP-1 20A 120v Connection	1	ea	\$387	\$387	
RTU-1A 30A 2p 208v Connection	1	ea	\$1,021	\$1,021	
RTU-1B 30A 2p 208v Connection	1	ea	\$1,021	\$1,021	
RTU-2A 30A 208v Connection	1	ea	\$1,162	\$1,162	
RTU-2B 30A 208v Connection	1	ea	\$1,162	\$1,162	
RTU-3 30A 2p 208v Connection	1	ea	\$1,021	\$1,021	
RTU-4 30A 208v Connection	1	ea	\$1,115	\$1,115	
RTU-5 40A 2p 208v Connection	1	ea	\$1,486	\$1,486	
RTU-6 40A 2p 208v Connection	1	ea	\$1,486	\$1,486	
VEF-1 7.5HP 30A 3P 208v Connection	1	ea	\$1,416	\$1,416	
WH-1 20A 120v Connection	1	ea	\$387	\$387	
3/4" - EMT 3#12	500	lf	\$15.60	\$7,800	
3/4" - EMT 3#10	500	lf	\$17.50	\$8,750	
3/4" - EMT 4#10	350	lf	\$18.80	\$6,580	
3/4" EMT - 3 # 8	150	lf	\$21.80	\$3,270	
				\$46,420	\$46,420

Lighting and Branch

Type K1 LED 4"x4' Linear Pendant	1	ea	\$670	\$670	
Type LT1 LED 2x2 Recessed Troffer	47	ea	\$311	\$14,617	
Type LT2 LED 4' Vapor Proof Linear Strip	12	ea	\$607	\$7,284	
Type LT5 LED 4' Vapor Proof Linear Strip	9	ea	\$607	\$5,463	
Type LT6 LED 8' Low Profile Wrap Around	7	ea	\$708	\$4,956	
Type LT6A LED 4' Low Profile Wrap Around	2	ea	\$498	\$996	
Type R1 LED 4"x4" Recessed Floor Light	4	ea	\$694	\$2,776	
Type SL2 LED Wall Mount Wet Location	4	ea	\$1,158	\$4,632	
Type SL3 LED Wall Mount Wet Location	5	ea	\$1,158	\$5,790	
Type SL4 LED Wall Mount 17" Arch Sconce	3	ea	\$1,039	\$3,117	
Type X1 LED Exit Nema 4X	1	ea	\$607	\$607	
Type X2 LED Exit Alum Housing Battery Back Up	10	ea	\$415	\$4,150	
3/4" - EMT 3#12	300	lf	\$15.60	\$4,680	
3/4" - EMT 7#12	150	lf	\$16.80	\$2,520	
3/4" - EMT 3#10	650	lf	\$17.50	\$11,375	
Luminary Cable MC 12/2 and 14/2 1-10VDC	1,600	lf	\$4.00	\$6,400	
Lighting Control Panels , Relays and Programming	1	ls	\$10,000	\$10,000	
[LKP] Wall Lighting Control Panel	3	ea	\$756	\$2,268	
[PP] Lighting Control Power Pack	26	ea	\$85	\$2,210	
[OS] Ceiling Occupancy sensor	24	ea	\$192	\$4,608	
(VS) Ceiling Vacancy Sensor	7	ea	\$170	\$1,190	
[OS*] Wall Occupancy Sensor	5	ea	\$170	\$850	
[SLD] Wall Mount Dimming Controller	8	ea	\$256	\$2,048	
[Svs] Wall Mount Vacancy Controller	3	ea	\$256	\$768	
[VSD] Wall Mount Dimming Vacancy Controller1	2	ea	\$256	\$512	
SKD Wall Key Switch Dimming Lighting Control	7	ea	\$152	\$1,064	
SL Lv Wall Lighting Control	16	ea	\$152	\$2,432	
25' CAT 6 Lighting Control Cable	101	ea	\$53.50	\$5,404	
Lighting Control Wall Box and Sleeve	54	ea	\$150	\$8,100	
				\$121,487	\$121,487

NEW FIRESTATION
TOWN OF SEEKONK
SCHOOL STREET
SEEKONK, MA

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TGAS - Design Development Cost Estimate

DIVISION 26 - ELECTRICAL continued: **\$0**

General Power

15A 125V Clock Receptacle	1	ea	\$118	\$118	
20A 125V Duplex Receptacle, Box and Plate	83	ea	\$115	\$9,545	
20A 125V Duplex GFCI Receptacle, Box and Plate	33	ea	\$129	\$4,257	
20A 125V Duplex GFCI Receptacle, Box and WP plate	13	ea	\$135	\$1,755	
20A 125V Duplex Receptacle w/USB , Box and Plate	5	ea	\$119	\$595	
(2) 20A 125V Duplex Receptacle, Box and Plate	5	ea	\$178	\$890	
(2) 20A 125V Duplex GFCI Receptacle, Box and Plate	1	ea	\$208	\$208	
20A Cord Reel w/ 25' Cable	6	ea	\$1,363	\$8,178	
Washing Machine 20A 125V Duplex Receptacle, Box and Plate	2	ea	\$115	\$230	
Dryer 30A 250V 4W 1PH Receptacle le Box and Plate	2	ea	\$214	\$428	
Range 50A 250V 4W Receptacle, Box and Plate	1	ea	\$277	\$277	
Single Gang Power Floor Box and Raceways	7	ea	\$685	\$4,795	
Office Furniture Floor Box w/ Branch and Telcom Raceways	4	ea	\$1,978	\$7,912	
[CFC] Ceiling Fan Controller	1	ea	\$213	\$213	
Auto Flush/Faucet Valve Connection	4	ea	\$206	\$824	
By-Fold Apparatus Door Wiring and Connections	2	ea	\$5,224	\$10,448	
Control Panel Connection	6	ea	\$204	\$1,224	
Dish Washer Connection	1	ea	\$458	\$458	
FAM Fire Alerting Monitor Location	2	ea	\$134	\$268	
Garage Door Operator Controls	2	ea	\$261	\$522	
Garage Door Operator motor Connection	2	ea	\$204	\$408	
Garage Door Operators	2	ea	\$147	\$294	
Garbage Disposal Connection	2	ea	\$402	\$804	
Gas Detection shut off Control Wiring	1	ea	\$3,786	\$3,786	
In Grade Detection Loop	2	ea	\$3,390	\$6,780	
Microwave 20A 125V Single Receptacle, Box and Plate	2	ea	\$112	\$224	
Range Hood Connection	1	ea	\$228	\$228	
SM Security Monitor Location	2	ea	\$134	\$268	
[NG] Natural Gas detector (FBO)	1	ea	\$147	\$147	
[UC] Natural Gas Utility Control Panel (FBO)	1	ea	\$261	\$261	
3/4" - EMT 3#10	200	lf	\$12.40	\$2,480	
3/4" EMT 3 #12	2,300	lf	\$15.60	\$35,880	
3/4" EMT 4 #12	150	lf	\$16.00	\$2,400	
3/4" EMT 5 #12	710	lf	\$16.40	\$11,644	
3/4" EMT 7 #12	1,600	lf	\$16.80	\$26,880	
3/4" EMT 3 #10	150	lf	\$17.50	\$2,625	
3/4" EMT -3 # 8	150	lf	\$21.80	\$3,270	
				<u>\$151,524</u>	\$151,524

Emergency Power and Distribution

150KW Diesel Generator w/Exterior weather enclosure	1	ea	\$85,000	\$85,000	
ATS-C 100A 4p 250v Transfer Switch	1	ea	\$7,769	\$7,769	
ATS-E 100A 4p 250v Transfer Switch	1	ea	\$7,769	\$7,769	
ATS-OS 600A 3p 250v Transfer Switch	1	ea	\$20,790	\$20,790	
IP-C 100A Roll up Generator Connection Panel	1	ea	\$10,970	\$10,970	
IP-E 100A Roll up Generator Connection Panel	1	ea	\$10,970	\$10,970	
Dist. Panel OSDP 600A MCB 120/208v	1	ea	\$17,400	\$17,400	
Panel CP-1 100A MCB 120/208v 42p w/SPD	1	ea	\$5,307	\$5,307	
Panel CP-2 100A MCB 120/208v 42p w/SPD	1	ea	\$5,307	\$5,307	
Panel EP-1 100A MCB 120/208v 42p w/SPD	1	ea	\$5,307	\$5,307	
Panel PP-1 200A MCB 120/208v 42p w/SPD	1	ea	\$8,067	\$8,067	
Panel PP-2 200A MCB 120/208v 42p w/SPD	1	ea	\$8,067	\$8,067	
Panel PP-3 200A MCB 120/208v 42p w/SPD	1	ea	\$8,067	\$8,067	
600A Nipple Set and Cable (2) 4"x12"	1	ea	\$2,650	\$2,650	
200A Feeder EMT Copper	150	ea	\$142	\$21,300	
100A Feeder MI Cable	150	ea	\$430	\$64,500	
				<u>\$289,240</u>	\$289,240

Lightning and Power Specialties

Lightning Protection	1	ls	\$15,000	\$15,000	
				<u>\$15,000</u>	\$15,000

Miscellaneous Systems

Temporary Service Power and Lights	1	ls	\$25,000	\$25,000	
Subcontractor Site Office and Storage	1	ls	\$30,000	\$30,000	
Subcontractor Lifts and Scaffolding	1	ls	\$10,000	\$10,000	
BIM Coordination	1	ls	\$12,000	\$12,000	
Bond Excluded				Not In Contract	
				<u>\$77,000</u>	\$77,000

Testing and Commissioning

Testing	1	ls	\$10,000	\$10,000	
				<u>\$10,000</u>	\$10,000
				<u>\$782,312</u>	\$782,312

**NEW FIRESTATION
TOWN OF SEEKONK
SCHOOL STREET
SEEKONK, MA**

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TGAS - Design Development Cost Estimate

DIVISION 27 - COMMUNICATIONS \$84,000

Telephone and Communications Systems

Telecomm Wall Box and 1" Sleeve	20	ea	\$178	\$3,560	
12" Wx 4" D Wire Basket Cable Tray	115	ea	\$54.80	\$6,302	
4-CAT 6A Cables , Termination and Testing	11	ea	\$1,264	\$13,904	
2-CAT 6A Cables , Termination and Testing	3	ea	\$632	\$1,896	
2-CAT 6A Cables , Termination and Testing WAP	3	ea	\$871	\$2,613	
1-CAT 6A Cables , Termination and Testing	2	ea	\$316	\$632	
TV -1-RG6 Cables , Termination and Testing	5	ea	\$353	\$1,765	
IDF Closet Fit Up	1	ea	\$12,000	\$12,000	
IT Switch and Electronics by Owner				\$42,672	\$42,672

Fire House Alerting System

FHA Box and 1" Wall Sleeve	48	ea	\$178	\$8,544	
FHA System Wiring allowance	1	allow	\$8,000	\$8,000	
FHA System Device Installation and Termination	1	allow	\$24,000	\$24,000	
				\$40,544	\$40,544

Public Address Systems

12" Surface Wireless Clock	3	ea	\$410	\$1,230	
				\$1,230	\$1,230
				\$84,446	\$84,446

DIVISION 28 - FIRE DETECTION AND ALARMS \$98,000

Security Access Control and CCTV

Control Panels , Access and CCTV Programming and Commissioning	1	ls	\$10,000	\$10,000	
Security Door Rough-in Raceways and Boxes	6	ea	\$405	\$2,430	
[CR] Car Reader Raceway, Device and wire	4	ea	\$636	\$2,544	
[DC] Door Contact	8	ea	\$107	\$856	
[DJ] 8x8x4 Door Security junction Box	6	ea	\$103	\$618	
[EH] Door Transfer Hinge	8	ea	\$213	\$1,704	
[EL/R] Electrified Lock and Circuit	4	ea	\$391	\$1,564	
[PB] Door Release Panic Hardware	4	ea	\$300	\$1,200	
[REX] Request to Exit Device, Raceway and Cable	4	ea	\$226	\$904	
Exterior wall Mounted Camera and Cable	5	ea	\$2,760	\$13,800	
Interior Dome Camera and Cable	13	ea	\$1,380	\$17,940	
				\$53,560	\$53,560

Fire Alarm System

Equipment ,Devices and Programming	1	ls	\$20,000	\$20,000	
F/A Main Fire Alarm Control Panel	1	ea	\$3,640	\$3,640	
F/A Remote Annunciator	1	ea	\$228	\$228	
F/A Radio Master Box	1	ea	\$455	\$455	
F/A Pull Station Installed w/Back Box	4	ea	\$230	\$920	
F/A Smoke Detector Installed w/Back Box	6	ea	\$375	\$2,250	
F/A Smoke/ CO Detector Installed w/.Back Box	3	ea	\$170	\$510	
F/A Smoke/CO Detector Installed w/Sounder Relay Base and Back Box	5	ea	\$375	\$1,875	
F/A Speaker/strobe wall Mount Installed w/Back Box	14	ea	\$235	\$3,290	
F/A Control Module Relay Fan Shutdown	1	ea	\$292	\$292	
F/A Door Holder Installed w/Back Box	1	ea	\$442	\$442	
F/A SLC/NAC 3/4" EMT and Loop Circuits	400	lf	\$12.50	\$5,000	
F/A 14/4 FPLP/MC Cable	720	lf	\$4.40	\$3,168	
F/A 16/2 FPLP/MC Cable	600	lf	\$3.30	\$1,980	
				\$44,050	\$44,050
				\$97,610	\$97,610

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DIVISION 26 - ELECTRICAL SITE UTILITIES					\$128,000
Electrical Site Distribution					
Primary Service 2x 5" PVC Duct bank	15	If	\$102	\$1,530	
Primary Service Pole Riser 5" GRC	1	ea	\$5,508	\$5,508	
Transformer pad Grounding	1	ea	\$1,805	\$1,805	
Secondary Service 600A (2) 4" PVC	95	If	\$212	\$20,140	
4" capped Raceway for future EV charging	1	ea	\$1,439	\$1,439	
4" capped Raceway for future PV System	1	ea	\$1,439	\$1,439	
1-1/4" PVC for future EV chargers	180	If	\$13.60	\$2,448	
Generator pad Grounding	1	ea	\$2,730	\$2,730	
Generator Feeder 600A (2) 4" PVC	65	If	\$248	\$16,120	
Generator Feeder 100A 1-1/2" PVC	65	If	\$49.20	\$3,198	
Generator Feeder 100A 1-1/2" PVC	65	If	\$49.20	\$3,198	
Generator annunciator circuits 2" PVC	60	If	\$21.80	\$1,308	
Generator start circuits 2" PVC	60	If	\$16.80	\$1,008	
Generator aux Power circuits 2" PVC	60	If	\$24.30	\$1,458	
Excavation and Concrete encasement	1	ls	\$6,500	\$6,500	
				\$69,829	\$69,829
Electrical Site Lighting					
Type SL1 LED Parking Area Light Pole	3	ea	\$3,212	\$9,636	
Type SL7 LED Bollard	7	ea	\$1,364	\$9,548	
1" PVC 3 #8	400	If	\$15.00	\$6,000	
Site Pole Precast Pole Base	3	ea	\$959	\$2,877	
Site Bollard Precast Pole Base	7	ea	\$375	\$2,625	
QZT Site Lighting Hand Hole	4	ea	\$1,075.00	\$4,300	
Excavation	1	ls	\$5,000.00	\$5,000	
				\$39,986	\$39,986
Site Communications					
Raceway to Radio Tower 2x 4" PVC	45	If	\$110	\$4,950	
Telecomm Service 2x4" PVC Duct Bank	110	If	\$55.80	\$6,138	
Telecomm Service Pole Riser (1) 4" GRC	1	ea	\$3,500	\$3,500	
Excavation	1	ls	\$3,500	\$3,500	
				\$18,088	\$18,088
				\$127,903	\$127,903

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SITEWORK AREAS See Page 2 for Sitework Areas

DIVISION 31 - EARTHWORK **\$498,000**

Erosion Controls

Straw Wattles and Silt fence	383	lf	\$8.50	\$3,256
Stone Entry Aprons	1,317	sf	\$2.30	\$3,029
Dust Control w/H2O Truck	20,000	ga	\$0.20	\$4,000
Catch Basin Silt Sacks	5	ea	\$139	\$695
Concrete Washout Basin	1	ea	\$2,200	\$2,200
				<u>\$13,180</u>

\$13,180

Clear, Grub, and Strip Topsoil

Site Clearing and Stump Grinding	1	ac	\$8,018	\$8,018
Grub, Stump and Stockpile small area	1	ac	\$2,395	\$2,395
Strip and Stockpile Topsoil	1,138	cy	\$5.60	\$6,373
Export Excess Loam	730	cy	\$6.40	\$4,672
				<u>\$21,458</u>

\$21,458

Demolition and Removals

Chain Link Fence Removal	141	lf	\$13.40	\$1,889
Retaining Wall Removal	75	sf	\$25.10	\$1,883
Water Line Removal	76	lf	\$74.60	\$5,670
Sewer Line Removal	95	lf	\$21.00	\$1,995
Septic Distribution Line Removal	234	lf	\$12.10	\$2,831
Pavement Sawcutting	465	lf	\$7.80	\$3,627
D Box Structure Removal	1	ea	\$130	\$130
Flag Pole Base Removal	1	ea	\$412	\$412
Asphalt Disposal	874	sy	\$14.40	\$12,586
Asphalt S.W Pavement Removal	60	sy	\$12.80	\$768
Concrete Sidewalk and Stair Removal	19	sy	\$50.20	\$954
Building Demolition				By Owner
Pump Septic Tank	1	ea	\$941	\$941
Septic Tank Demolition / Disposal	1	ea	\$709	\$709
				<u>\$34,394</u>

\$34,394

Earthwork

Cut to Fill w/ 330 Exc	621	cy	\$7.50	\$4,658
Imported Structural Borrow - D5	470	cy	\$44.90	\$21,103
Unsuitable Export	768	cy	\$23.40	\$17,971
				<u>\$43,732</u>

\$43,732

Retaining Wall Work

Sm. Retaining Wall E&B	44	lf	\$25.40	\$1,118
Stone Strong Wall-MBO	244	sf	\$60.80	\$14,835
				<u>\$15,953</u>

\$15,953

Building Earthwork

Mid Sized Foundation Wall Exc.	701	lf	\$38.10	\$26,708
FS Slab Gravel w/ Finegrading	253	cy	\$61.70	\$15,610
Oil Interceptor Valve Pit E&B	10	cy	\$125	\$1,250
Interior Haunch Shaping (24"++)	150	lf	\$12.80	\$1,920
Interior Piers Exc/Back	28	ea	\$561	\$15,708
Interior Electric E/B w/M305	200	lf	\$13.30	\$2,660
Interior Plumbing E/B	575	lf	\$32.70	\$18,803
Interior Trench Drain E/B	54	lf	\$30.00	\$1,620
				<u>\$84,279</u>

\$84,279

Drainage Systems

6" ADS w/Fittings	112	lf	\$43.70	\$4,894
6" ADS Foundation Drain w/Fittings	395	lf	\$43.80	\$17,301
12" ADS Drain 2	486	lf	\$56.60	\$27,508
12" ADS Manifolds for Infiltration System	122	lf	\$134	\$16,348
15" ADS Line	66	lf	\$54.40	\$3,590
18" ADS Line	4	lf	\$74.70	\$299
4' Deep DMH (4' Dia)	2	ea	\$1,881	\$3,762
5' Deep DMH (4' Dia)	2	ea	\$2,004	\$4,008
6' Deep DMH (4' Dia)	1	ea	\$2,289	\$2,289
7' Deep CB(4' Dia) 4' Sump	3	ea	\$2,766	\$8,298
6' Deep Leach Pit (6' Dia)	1	ea	\$4,248	\$4,248
Stormtech MC 740 Infiltration System	72	ea	\$1,677	\$120,744
Trench Drain - Precast	54	lf	\$263	\$14,202
Area Drains	3	ea	\$2,583	\$7,749
				<u>\$235,240</u>

\$235,240

Grading and Graveling for walks, pads, drives, and roads

Conc Walk Subgrade	351	sy	\$9.90	\$3,475
Concrete Walk Aggregate Base	73	cy	\$107	\$7,811
Dumpster and Gen Pad Subgrade	32	sy	\$14.80	\$474
Dumpster and Gen Pad Stone Base	126	cy	\$108	\$13,608
Heavy Duty Asphalt and Parking Pavement Base Material Placement	364	cy	\$53.90	\$19,620
Driveway / Parking Subgrade	1,222	sy	\$3.60	\$4,399
				<u>\$49,386</u>

\$49,386

\$497,621

\$497,621

NEW FIRESTATION
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DIVISION 32 - SITE IMPROVEMENTS **\$197,000**

Pavements and Curbs

Place Vertical Concrete Curb	275	lf	\$39.00	\$10,725
Asphalt Curb - Berm	460	lf	\$6.30	\$2,898
4" Bituminous Pavement	931	sy	\$36.30	\$33,795
4.5" Bituminous H D Pavement	292	sy	\$46.40	\$13,549
Utility Trench Patch	57	sy	\$224	\$12,768
F & I Dumpster and Gen Pad	280	sf	\$37.70	\$10,556
5" Concrete Walk w/Wire Mesh	351	sy	\$133	\$46,683
				<u>\$130,974</u>

\$130,974

Topsoil Placement and Seeding

Hydroseeding for Erosion Control	19,880	sf	\$0.20	\$3,976
Screen and Respread Topsoil	460	cy	\$18.10	\$8,326
Landscape Area Subgrading (318)	2,210	sy	\$2.50	\$5,525
F&I Jute for Slope Stabilization	380	sf	\$0.50	\$190
Landscape Plantings	1	Allowance	\$15,000	\$15,000
				<u>\$33,017</u>

\$33,017

Miscellaneous Site Furnishings and Cleanup

F&I Bollards	10	ea	\$1,194	\$11,940
Site Signs and Markings	1	ls	\$6,264	\$6,264
Flagpole Base Preparation and Installation	1	ea	\$7,379	\$7,379
Dumpster Enclosure w/Fencing	50	lf	\$157	\$7,850
				<u>\$33,433</u>

\$33,433

\$197,424

DIVISION 33 - UTILITIES **\$173,000**

Sewer Systems

E & B For ZURN Sand / Oil Collection Tank	1	ea	\$2,735	\$2,735
4" Building Sewer, Short Runs	45	lf	\$57.30	\$2,579
4" Plumber C I Trench Line E&B	25	lf	\$20.30	\$508
6" SDR 35 Cleanout	1	ea	\$1,047	\$1,047
6" SDR 35 Sewer Service	32	lf	\$60.80	\$1,946
Exc. Trench and Install Leaching Pipe	200	lf	\$25.30	\$5,060
Leach Field Cover w/One Machine	110	cy	\$9.90	\$1,089
Leach Field Stone Installation	55	tn	\$50.80	\$2,794
Septic Bed Excavation	151	cy	\$10.60	\$1,601
7 Hole Distribution Box	1	ea	\$1,752	\$1,752
Inspection Port	3	ea	\$502	\$1,506
1,500 Gal Septic Tank	1	ea	\$6,237	\$6,237
3,500 Tight Tank E & B	2	ea	\$4,233	\$8,466
				<u>\$37,318</u>

\$37,318

Water Systems

2" Water Service - Poly	296	lf	\$59.30	\$17,553
Hydrant installation	1	ea	\$8,953	\$8,953
Basic 8" Water	320	lf	\$119	\$38,080
Cut in 8" Valves and Tees	1	ea	\$34,040	\$34,040
				<u>\$98,626</u>

\$98,626

Electrical Systems

Elec/Tele/Catv Duct Bank Exc/Back	12	lf	\$35.60	\$427
Light Bases F & I	3	ea	\$1,250	\$3,750
Site Lighting Exc/Back	385	lf	\$15.40	\$5,929
Furnish and Install Precast Transformer Pad	1	ea	\$1,898	\$1,898
Secondary Electric Trenching(Generator, ev charging, Radio Twr Stub)	154	lf	\$77.60	\$11,950
Light Bollard Bases Exc/Back	7	ea	\$173	\$1,211
Fiber Optic / DATA Exc/Back	25	lf	\$15.10	\$378
				<u>\$25,543</u>

\$25,543

Fuel and Miscellaneous Utility Systems (12)

Gas Line Exc/Back	210	lf	\$54.00	\$11,340
				<u>\$11,340</u>

\$11,340

\$172,827

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SUMMARY		8,305 GSF	
DIV.2	EXISTING CONDITIONS / SITE DEMOLITION		No Work
DIV.3	CONCRETE	\$24.32 /GSF	\$202,000
DIV.4	MASONRY - Filed Sub-Bid	\$67.91 /GSF	\$564,000
DIV.5	METALS	\$53.70 /GSF	\$446,000
	05 00 01 -Miscellaneous and Ornamental Iron - Filed Sub-Bid		\$98,398
DIV.6	WOOD, PLASTICS AND COMPOSITES	\$15.05 /GSF	\$125,000
DIV.7	THERMAL AND MOISTURE PROTECTION	\$50.45 /GSF	\$419,000
	07 00 01 - Roofing and Flashing - Filed Sub-Bid		\$284,138
	07 00 02 - Waterproofing, Damp-Proofing and Caulking - Filed Sub-Bid		\$52,191
DIV.8	DOORS AND WINDOWS	\$22.76 /GSF	\$189,000
	08 00 01 - Glass and Glazing - Filed Sub-Bid		\$0
	08 00 02 - Metal Windows - Filed Sub-Bid		\$30,514
DIV.9	FINISHES	\$49.13 /GSF	\$408,000
	09 00 01 - Acoustical Tile - Filed Sub-Bid		\$30,160
	09 00 02 - Resilient Floors - Filed Sub-Bid		\$100,575
	09 00 03 - Tile - Filed Sub-Bid		\$31,530
	09 00 04 - Painting - Filed Sub-Bid		\$33,375
DIV.10	SPECIALTIES	\$13.61 /GSF	\$113,000
DIV.11	EQUIPMENT	\$4.46 /GSF	\$37,000
DIV.12	FURNISHINGS	\$0.12 /GSF	\$1,000
DIV.13	SPECIAL CONSTRUCTION	\$0.00 /GSF	No Work
DIV.21	FIRE SUPPRESSION - Filed Sub-Bid	\$8.07 /GSF	\$67,000
DIV.22	PLUMBING - Filed Sub-Bid	\$50.57 /GSF	\$420,000
DIV.23	HVAC - Filed Sub-Bid	\$55.51 /GSF	\$461,000
DIV.26	ELECTRICAL - Filed Sub-Bid	\$131.49 /GSF	\$1,092,000
DIV.31	EARTHWORK	\$59.96 /GSF	\$498,000
DIV.32	SITE IMPROVEMENTS	\$23.72 /GSF	\$197,000
DIV.33	SITE UTILITIES	\$20.83 /GSF	\$173,000
SUBTOTAL, Rounded		\$651.66 /GSF	\$5,412,000
GENERAL CONDITIONS AND OH & P		\$117.28 /GSF	18% \$974,000
SUBTOTAL		\$768.93 /GSF	\$6,386,000
DESIGN CONTINGENCY		\$38.41 /GSF	5% \$319,000
SUBTOTAL		\$807.34 /GSF	\$6,705,000
CONSTRUCTION/OWNER CONTINGENCY		\$0.00 /GSF	By Owner
SUBTOTAL - TODAY'S DOLLARS		\$807.34 /GSF	\$6,705,000
ESCALATION TO MIDPOINT OF CONSTRUCTION - ROUGHLY JAN. 2024		\$61.89 /GSF	7.7% \$514,000
			\$7,219,000
		\$866.95 /GSF	SAY \$7,200,000

PROBABLE CONSTRUCTION COST RANGE BETWEEN

\$6,500,000	AND	\$7,900,000
\$783		\$951
\$/GSF		\$/GSF

NEW FIRESTATION
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AREAS

Floor Area

First Floor	7,965	GSF
- Entry	0	GSF
- Mezzanine	340	GSF
	8,305	GSF

Exterior Wall Area

- Brick	6,192	sf
- CMU	1,175	sf
- Glass Entry	0	sf
- Windows	407	sf
- Overhead Doors	392	sf
	8,166	sf

Roofing Area

Flat Roof Area	7,965	sf
Roofing at Parapet Back-Up	812	sf
	8,777	sf

Site Area

Site Area within Property Line	42,070	sf
Site Area between Property Line and Street	5,020	sf
	47,090	sf

1.08 Acre

Breakdown by Coverage

Building Footprint	7,965	sf
Parking and Training Area Paving	8,110	sf
Apparatus Area Paving	2,510	sf
Sidewalks along the Street in Front of the Property	1,240	sf
Radio Tower Pad	320	sf
Generator Pad	220	sf
Paving under Flagpole and Sign	140	sf
Walkways	2,310	sf
Loam and Seed Disturbed Areas	24,275	sf
	47,090	sf

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DIVISION 2 - EXISTING CONDITIONS

02 41 13 - UTILITY LINE REMOVALS

Utility Line Removals

Included with Sitework

\$0	\$0
\$0	\$0

DIVISION 3 - CONCRETE

\$202,000

03 30 00 - CAST-IN-PLACE CONCRETE

Foundations :-

Column Footings

35 cy \$690 \$24,150

Continuous Footings

20 cy \$720 \$14,400

Foundation Walls

69 cy \$1,080 \$74,520

Pilasters / Column Bases

Step Footings / Walls [according to grade changes]

Included Above

Slab On Grade

Not Required

- 4" thick

60 cy \$560 \$33,600

- Sunken Floor at Server Room and Dispatch

102 lf \$25 \$2,550

- 6" thick

57 cy \$530 \$30,210

- Control Joints

1,000 lf \$10 \$10,000

- Smooth Trowel Finish [per finish schedule]

3,080 sf \$1.60 \$4,928

- Install Trench Drain (Provided by Others)

56 lf \$15 \$840

Vapor Barrier

9,160 sf See Div. 7

Set Anchor Bolts

30 sets \$55 \$1,650

Grout Base Plates

30 ea \$45 \$1,350

Miscellaneous Embedded Items

1 ls \$2,500 \$2,500

Wheel Guards

Not Included

Structure

Misc. Equipment Pads

1 ls \$1,000 \$1,000

Hardeners

Not Included

\$201,698

\$201,698

\$201,698

\$201,698

DIVISION 4 - MASONRY

\$564,000

04 00 01 - MASONRY WORK - Filed Sub-Bid

04 05 13 - MASONRY MORTARS [Part of Section 04 00 01]

04 22 00 - UNIT MASONRY [Part of Section 04 00 01]

Exterior:

Face Brick

6,192 sf \$50 \$309,600

3 5/8" Ground Face CMU at Exterior Wall, as Exterior Finish

1,175 sf \$30 \$35,265

3 5/8" Ground Face CMU at Exterior Wall, as Back-Up

2,986 sf \$32 \$95,552

Interior:

- 8" CMU at Wall Types1, 1A, 1B, 1C, and 1D as 8" Ground Face (1 side only) CMU

3,630 sf \$34 \$123,420

\$563,837

\$563,837

\$563,837

\$563,837

NEW FIRESTATION
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DIVISION 5 - METALS \$446,000

05 00 01 - MISCELLANEOUS and ORNAMENTAL IRON - Filed Sub-Bid

05 50 00 - METAL FABRICATIONS [Part of 05 00 01]

Miscellaneous Metals [Interior]	8,305	sf	\$5	\$41,525	
- Miscellaneous Lintels				Included Above	
- Embedded Galv Angles at OHD Sills				Included Above	
- Toilet Partition Supports				Included Above	
- Anchor Bolts				Included Above	
3/8" Steel Frame around Window Openings	362	lf	\$25	\$9,050	
3/8" Steel Frame around Overhead Door Openings and Area Above	130	lf	\$25	\$3,250	
Aluminum Canopy at OH Doors, Custom	96	sf	\$100	\$9,600	
Aluminum Canopies at Entries with Transoms				Included with Div. 8	
Angle / Seismic Bracing at CMU Partitions (Only)	163	lf	\$110	\$17,930	
Bollards at Overhead Doors	4	ea	\$1,100	\$4,400	
Overhead Door Frames	2	ea	\$2,000	\$4,000	
Mezzanine					
- 36" High Pipe Guardrail incl. Gate	38	lf	\$120	\$4,560	
- Mezzanine Stairs / Ladder				None Shown	
Miscellaneous Metals [Exterior Wall]	8,166	sf	\$0.50	\$4,083	
				\$98,398	\$98,398

05 12 00 - STRUCTURAL STEEL FRAMING

Structural Steel	34	ton	\$5,500	\$187,000	
Allowances For Additional Steel	6.4	ton	\$5,500	\$35,200	
- Connections [10% additional steel]	3.4	ton		Included Above	
- Framing at Openings	1	ton		Included Above	
- Misc. Dunnage and Equipment Support	2	ton		Included Above	
				\$222,200	\$222,200

05 21 00 - STEEL JOIST FRAMING

Bar Joist	7	ton	\$3,500	\$24,500	
				\$24,500	\$24,500

05 30 00 - METAL DECKING

1 1/2" x 22ga Galv Steel Deck	7,965	sf	\$12	\$95,580	
				\$95,580	\$95,580

05 40 00 - COLD-FORMED METAL FRAMING

Metal Studs at Exterior Wall Back-Up and Interior Partitions				Included within Div. 9	
				\$0	\$0

05 51 33 - METAL LADDERS

- Galvanized Steel Roof Ladder w/Cage	1	ls	\$5,000	\$5,000	
- Ships ladder at Roof Elevation Change				None Shown	
				\$5,000	\$5,000
				\$445,678	\$445,678

DIVISION 6 - WOOD, PLASTICS and COMPOSITES \$125,000

06 10 00 - ROUGH CARPENTRY

Plywood Decking at Mezzanine	340	sf	\$6	\$2,040	
8 inch Light Ga. Joists at Mezzanine	340	sf	\$10	\$3,400	
Interior Blocking	8,305	sf	\$2	\$16,610	
Roof Blocking					
- Parapet Blocking	450	lf	\$10	\$4,500	
- Cant Strip	510	lf	\$6	\$3,060	
- Miscellaneous Blocking	1	ls	\$1,000	\$1,000.00	
Unload and Distribute Doors and Frames	20	hrs	\$100	\$2,000	
Install Doors / Frames and Hardware					
- Exterior	21	hrs	\$100	\$2,100	
- Interior	204	hrs	\$100	\$20,400	
Install Toilet Accessories	24	hrs	\$100	\$2,400	
				\$57,510	\$57,510

06 16 00 - SHEATHING

Roof Sheathing	7,965	sf	\$4	\$31,860	
				\$31,860	\$31,860

06 20 00 - FINISH CARPENTRY

Running Trim [window sills]	1	Allowance	\$2,000	\$2,000	
Report Room				Assumed to be Furniture	
Break Room					
- Base and Wall Cabinetry	11	lf	\$600	\$6,600	
- Solid Surface Counter Top	11	lf	\$150	\$1,650	
Kitchen					
- Base and Wall Cabinetry	26	lf	\$600	\$15,600	
- Solid Surface Counter Top	22	lf	\$150	\$3,300	
- Solid Surface Counter Top - Island	25	sf	\$100	\$2,500	
Restrooms					
- Vanity and Counter [3'-6"]	2	ea	\$1,750	\$3,500	
				\$35,150	\$35,150

06 41 16 - PLASTIC-LAMINATE CLAD ARCHITECTURAL MILLWORK

Incl. with Section 06 20 00

06 61 40 - SOLID SURFACE FABRICATIONS

Incl. with Section 06 20 00

\$124,520 \$124,520

NEW FIRESTATION
TOWN OF SEEKONK
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DIVISION 7 - THERMAL and MOISTURE PROTECTION					\$419,000
07 00 01 - ROOFING and FLASHING - Filed Sub-Bid					
07 54 23 - THERMOPLASTIC-POLYOLEFIN ROOFING [Part of 07 00 01]					
- Membrane Roof incl. Insulation	7,965	sf	\$34	\$270,810	
- Membrane Turn-up at Parapet	812	sf	\$12	\$9,744	
Walkway Pads - say 5% of Area	398	sf	\$9	\$3,584	
				<u>\$284,138</u>	\$284,138
07 00 02 - WATERPROOFING, DAMPROOFING and CAULKING - Filed Sub-Bid					
07 27 26 - FLUID-APPLIED NON-PERMEABLE MEMBRANE AIR BARRIERS [Part of 07 00 02]					
07 27 27 - FLUID-APPLIED MEMBRANE AIR BARRIERS [Part of 07 00 02]					
07 92 00 - JOINT SEALANTS [Part of 07 00 02]					
Dampproofing at Foundation Wall	1,950	sf	\$2.50	\$4,875	
Vapor Barrier at slab on grade	9,160	sf	\$0.60	\$5,496	
Fluid-Applied Membrane Air Barrier					
- Exterior Wall	7,367	sf	\$5	\$36,837	
- Soffits				None Shown	
Caulking and Sealants	8,305	sf	\$0.60	\$4,983	
				<u>\$52,191</u>	\$52,191
07 21 00 - THERMAL INSULATION					
Rigid Insulation at Exterior Wall					
- Exterior Wall	7,367	sf	\$4	\$29,470	
- Soffits				None Shown	
Perimeter Insulation [assumed 4'-0"]	1,560	sf	\$4	\$6,240	
Batt Insulation at Exterior Wall				Included w/Division 9	
Miscellaneous Insulation	1	ls	\$5,000	\$5,000	
				<u>\$40,710</u>	\$40,710
07 42 13 - FORMED METAL WALL PANELS					
<i>Mechanical Screen at Roof</i>					
- Structural System				None Shown	
- Metal Panels				None Shown	
				<u>\$0</u>	\$0
07 42 16 - ZINC ALLOY METAL WALL PANELS					
- Metal Panels				None Shown	
				<u>\$0</u>	\$0
07 62 00 - SHEET METAL FLASHING and TRIM					
Parapet Caps, as Aluminum Coping	453	lf	\$65	\$29,445	
<i>Counter Flashing</i>					
- Parapets	436	lf	\$15	\$6,540	
- Building To Roof	60	lf	\$15	\$900	
Scuppers / Rainwater Management				None Shown - Roof Drains incl. Overflow Drains	
Miscellaneous Flashings [Roof Top Curbs]	1	ls	\$2,500	\$2,500	
				<u>\$39,385</u>	\$39,385
07 84 00 - FIRESTOPPING PENETRATIONS, JOINTS AND PERIMETER FIRE CONTAINMENT					
Fire Stop Systems	8,305	sf	\$0.30	\$2,492	
				<u>\$2,492</u>	\$2,492
				<u>\$418,916</u>	\$418,916

NEW FIRESTATION
TOWN OF SEEKONK
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DIVISION 8 - OPENINGS **\$189,000**

08 00 01 - GLASS and GLAZING - Filed Sub-Bid
08 41 26 - ALL GLASS ENTRANCES [Part of 08 00 01]
08 88 00 - GLASS and GLAZING [Part of 08 00 01]

08 00 02 - METAL WINDOWS - Filed Sub-Bid

Exterior Windows	407	sf	\$75	\$30,514	
				\$30,514	\$30,514

08 11 13 - HOLLOW METAL DOORS and FRAMES

Door Type

1	Glazed Double Door - Steel				
	6-0 x 8-0 - 100A including Frame Type 1B Transom and Sidelights - 1 location	94	sf	\$130	\$12,220
	6-0 x 8-0 - 100B including Frame Type 1B Transom and Sidelights - 1 location	94	sf	\$130	\$12,220
2	HM Door				
	3-0 x 7-0	3	lvs	\$400	\$1,200
3	HM Sliding Door - Frameless				
	3-4 x 8-0	1	lvs	\$425	\$425
5	Hollow Metal Double Door - Bifold				
	12-0 x 7-0	1	loc	\$1,200	\$1,200
	9-5 x 7-0	1	loc	\$1,000	\$1,000
7	HM Door - Glazed				
	3-0 x 8-0	2	lvs	\$4,500	\$9,000
10	Hollow Metal Double Door				
	4-0 x 7-0	1	pr	\$700	\$700
	6-0 x 7-0	1	pr	\$800	\$800
11	Hollow Metal Double Door				
	6-0 x 7-10	1	pr	\$800	\$800
12	Hollow Metal Door				
	3-0 x 7-10	1	lvs	\$425	\$425

Frame Type

1B	HM Frame				
2	HM Frame				
	3-0 x 7-10	1	ea	\$180	\$180
	6-0 x 7-10	1	ea	\$350	\$350
3	HM Frame				
	3-0 x 7-0	7	ea	\$180	\$1,260
	4-0 x 7-0	1	ea	\$200	\$200
	6-0 x 7-0	1	ea	\$350	\$350
	9- 4 7/8 x 7-0	1	ea	\$400	\$400
4	HM Frame				
				Incl. with Door Above	
				\$42,730	\$42,730

08 14 00 - WOOD DOORS

Door Type:

2	Wood Door				
	3-0 x 7-0	13	lvs	\$400	\$5,200
5	Wood Double Door - Bifold				
	8-0 x 7-0	1	loc	\$800	\$800
6	Wood Door with Vision Lite				
	3-0 x 7-0	3	lvs	\$750	\$2,250
7	Wood Door - Glazed				
	3-0 x 7-0	2	lvs	\$1,000	\$2,000
8	Wood Double Door with Vision Lite - Uneven Pr				
	4-6 x 7-0	1	pr	\$1,500	\$1,500
9	Not Used				

Frame Type:

2	Wood Frame				
	3-0 x 7-0	18	ea	\$200	\$3,600
	4-6 x 7-0	1	ea	\$250	\$250
	8-0 x 7-0	1	ea	\$400	\$400
	12-0 x 7-0	1	ea	\$500	\$500
				\$16,500	\$16,500

08 31 00 - ACCESS DOORS and FRAMES

Access Doors and Frames	1	Allowance	\$1,000	\$1,000	
				\$1,000	\$1,000

08 36 13 - SECTIONAL OVERHEAD DOORS

OH Door Aluminum Overhead Doors					
- 14'-0"x 14'-0"	2	ea	\$16,000	\$32,000	
				\$32,000	\$32,000

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DIVISION 8 - OPENINGS

08 41 13 - ALUMINUM FRAMED ENTRANCES and STOREFRONTS

Door Type

Frameless Glass Entry
1A - Xc Doors 100A
4 Glazed Door with Sidelight - Frameless
5-0 x 7-0
7-11 x 7-0

0	sf	\$175	\$0	
0	pr	\$9,000	\$0	
35	sf	\$200	\$7,000	
56	sf	\$200	\$11,200	
			\$18,200	\$18,200

08 62 23 - TUBULAR DAYLIGHTING DEVICES

Pre Manufactured Tubular Skylights say 21" x 21"

3	ea	\$3,000	\$9,000	
			\$9,000	\$9,000

08 63 00 - METAL FRAMED SKYLIGHTS

Entry Area Skylight - 8' x 13'

1	Allowance	\$10,000	\$10,000	
			\$10,000	\$10,000

08 71 00 - DOOR HARDWARE

Hardware

45	lvs	\$650	\$29,250	
			\$29,250	\$29,250

08 87 00 - GLAZING SURFACE FILMS

None Shown

			\$0	
			\$0	\$0
			\$189,194	\$189,194

NEW FIRESTATION
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TGAS - Design Development Cost Estimate

DIVISION 9 - FINISHES						\$408,000
09 00 01 - ACOUSTICAL TILE - Filed Sub-Bid						
09 51 00 - ACOUSTICAL CEILINGS [Part of Section 09 00 01]						
- ACT Ceilings	3,770	sf	\$8	\$30,160		
				\$30,160		\$30,160
09 00 02 - RESILIENT FLOORS - Filed Sub-Bid						
09 65 13 - RESILIENT WALL BASE [Part of Section 09 00 02]						
09 65 16 - RESILIENT SHEET FLOORING [Part of Section 09 00 02]						
09 65 19 - RESILIENT TILE FLOORING [Part of Section 09 00 02]						
- Rubber	6,535	sf	\$10	\$65,350		
- Rubber Mats - Fitness Room Floor	150	sf	\$18	\$2,700		
- Carpet Tile	575	sf	\$5	\$2,875		
- Raised Floor at Dispatch and Server Room incl. Portion of Corridor Linking Rooms	880	sf	\$30	\$26,400		
- Rubber Base	1,300	lf	\$2.50	\$3,250		
				\$100,575		\$100,575
09 00 03 - TILE - Filed Sub-Bid						
09 30 13 - CERAMIC TILE [Part of Section 09 00 03]						
- Ceramic Tile Flooring	385	sf	\$23	\$8,855		
- Ceramic Tile Base - 3" x 6"	175	lf	\$21	\$3,675		
- Ceramic Tile Wall Finish - 7'-0 high	950	sf	\$20.00	\$19,000		
				\$31,530		\$31,530
09 00 04 - PAINTING - Filed Sub-Bid						
09 90 00 - PAINTING and COATING [Part of Section 09 00 04]						
Paint CMU	5,730	sf	\$2.50	\$14,325		
Paint GWB	6,750	sf	\$1.50	\$10,125		
Paint Doors and Frames						
- HM and Wood Frames	33	ea	\$100	\$3,300		
- HM Doors	45	lvs	\$125	\$5,625		
				\$33,375		\$33,375
09 21 00 - GYPSUM BOARD ASSEMBLIES						
Exterior Wall Backup [incl parapets]	3,945	sf	\$22	\$86,801		
- 5/8" GWB				Included Above		
- 6" Metal Stud				Included Above		
- Vapor Barrier [Interior]				Included Above		
- Batt Insulation				Included Above		
- Plywood Sheathing				Included Above		
- Added wall Thickness at Front of Apparatus Bay	0	sf	\$5.00	\$0		
GWB Soffit at Skylight/Entry Area	1	ls	\$3,500	\$3,500		
GWB Fascia/Soffit at Skylight				Included Above		
Interior Partitions						
- Finishes Applied to CMU Partition Type 1A	224	sf	\$15.00	\$3,360		
- Finishes Applied to CMU Partition Type 1B	126	sf	\$13.50	\$1,701		
- Finishes Applied to CMU Partition Type 1C	364	sf	\$6.50	\$2,366		
- Finishes Applied to CMU Partition Type 1D	294	sf	\$6.65	\$1,955		
Interior Partitions, Complete						
- Partition Type 3	1,204	sf	\$18.00	\$21,672		
- Partition Type 3A	154	sf	\$16.50	\$2,541		
- Partition Type 4	3,094	sf	\$15.00	\$46,410		
- Partition Type 5	700	sf	\$15.30	\$10,710		
- Partition Type 6	1,316	sf	\$15.15	\$19,937		
- Partition Type 7	42	sf	\$19.15	\$804		
- Partition Type 7 as Plumbing Wall	280	sf	\$19.55	\$5,474		
- Xc Cement Board At CT on Walls	950	sf	\$2.00	\$1,900		
				\$209,132		\$209,132
09 67 23 - RESINOUS FLOORING						
- Epoxy	165	sf	\$22	\$3,630		
- Epoxy - Mezzanine	0	sf	\$22	\$0		
				\$3,630		\$3,630
Miscellaneous Items						
Ceilings	7,965	sf				
- Exposed Structure at Apparatus Bay, Etc.	4,035	sf		Exposed Structure		
- Exposed Structure at Entry/Skylight	160	sf		Exposed Structure		
				\$0		\$0
				\$408,402		\$408,402

NEW FIRESTATION
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KGAS - Design Development Cost Estimate

DIVISION 10 - SPECIALTIES						\$113,000
10 11 00 - MAGNETIC GLASS MARKERBOARDS						
Magnetic Glass Markerboards	1	Allowance	\$5,000	\$5,000		
				\$5,000	\$5,000	
10 11 23 - TACKBOARDS						
Tackboards	1	Allowance	\$2,500	\$2,500		
				\$2,500	\$2,500	
10 14 19 - CUT METAL LETTERS						
Cut Metal Letters - 16" Tall	22	ea	\$425	\$9,350		
				\$9,350	\$9,350	
10 14 21 - ARCHITECTURAL DOOR SIGNS						
ADA and MAAB Compliant Interior Signage and Graphics	1	ls	\$5,000	\$5,000		
				\$5,000	\$5,000	
10 14 53 - TRAFFIC SIGNAGE						
Traffic Signage	1	ls	Included with Sitework			
				\$0	\$0	
10 28 00 - TOILET ACCESSORIES						
<i>Accessible Restrooms - 130 and 131</i>						
- 42" Grab Bars	5	sets	\$60	\$300		
- Soap Dispenser - Bobrick: B-4112	5	ea	\$90	\$450		
- Toilet Paper Holder - Bobrick: B-2888	5	ea	\$86	\$430		
- Framed Mirror 2'x3'	5	ea	\$235	\$1,175		
- Waste Receptacle - Bobrick: B-220816	5	ea	\$296	\$1,480		
- Sanitary Napkin Disposal - Bobrick: B-270	5	ea	\$42	\$210		
- Shower Curtain Rod - Bobrick: B-6047 x 36	3	ea	\$36	\$108		
- Shower Curtain Ring - Bobrick: (7x) 204-1	21	ea	\$2	\$32		
- Shower Curtain - Bobrick: 204-2	3	ea	\$42	\$126		
- Mop and Broom Holder	1	ea	\$0	\$0		
Install Toilet Accessories				See Division 6		
				\$4,311	\$4,311	
10 28 13 - ELECTRIC HAND DRYERS						
Electric Hand Dryers				None Shown		
				\$0	\$0	
10 44 16 - FIRE EXTINGUISHERS AND CABINETS						
Portable fire extinguishers	3	ea	\$100	\$300		
Fire extinguisher cabinets-semi recessed	3	ea	\$300	\$900		
				\$1,200	\$1,200	
10 51 00 - GEAR RACK STORAGE COMPONENTS						
24" Wide Turnout Gear Lockers	17	ea	\$2,500	\$42,500		
				\$42,500	\$42,500	
10 51 01 - PHENOLIC LOCKERS						
Bunk Room Lockers - 24 x 84 Phenolic Lockers	20	ea	\$1,900	\$38,000		
				\$38,000	\$38,000	
10 75 00 - FLAGPOLES						
Aluminum Flagpole to Withstand 100MPH min	1	ea	\$5,000	\$5,000		
3'x5' American Flag (CFCI)	1	ea	\$200	\$200		
				\$5,200	\$5,200	
				\$113,061	\$113,061	
DIVISION 11 - EQUIPMENT						\$37,000
11 23 00 - LAUNDRY SERVICE EQUIPMENT						
Top Load Washer	2	ea	\$2,500	\$5,000		
Single Load Dryer	2	ea	\$2,300	\$4,600		
				\$9,600	\$9,600	
11 23 26 - COMMERCIAL WASHERS AND EXTRACTORS						
Extractor 65 lb Capacity	1	ea	\$16,000	\$16,000		
Stainless Steel Sink at Decon Area				Included w/Plumbing		
				\$16,000	\$16,000	
11 40 00 - FOOD SERVICE EQUIPMENT						
Refrigerator 27.80 cu ft	1	ea	\$2,200	\$2,200		
Dishwasher	1	ea	\$1,000	\$1,000		
Microwave 2.20 cu ft	1	ea	\$800	\$800		
Range - 4 Burner	1	ea	\$3,000	\$3,000		
Range Hood				None Shown		
Disposal				None Shown		
				\$7,000	\$7,000	
11 90 00 - OTHER EQUIPMENT and ACCESSORIES						
Pot Racks				None Shown		
Shelving Units	156	lf	\$25	\$3,900		
Vertical File Cabinets	4	ea		By Others		
Fitness Equipment	5	ea		By Others		
				\$3,900	\$3,900	
				\$36,500	\$36,500	

NEW FIRESTATION
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TGAS - Design Development Cost Estimate

DIVISION 12 - FURNISHINGS **\$1,000**

12 24 00 - WINDOW SHADES					
Manually Operated Blinds	263	sf	\$5	\$1,314	
				\$1,314	\$1,314
12 48 13 ENTRANCE FLOOR MATS					
Recessed Floor Mat at Entry	0	sf	\$75	\$0	
Walk Off Mats at Secondary Entries	0	ea	\$110	By Owner	
				\$0	\$0
				\$1,314	\$1,314

DIVISION 21 - FIRE PROTECTION **\$67,000**

Equipment

Double Check Valve Backflow Preventor Assembly - 8"	1	ea	\$9,424	\$9,424	
Fire Protection Specialties	1	ls	\$6,223	\$6,223	
Wet Sprinkler Building Coverage - Mezzanine	275	sf	\$5.00	\$1,375	
Wet Sprinkler Building Coverage - Apparatus Bay	2,825	sf	\$5.00	\$14,125	
Wet Sprinkler Building Coverage - Office	4,800	sf	\$5.50	\$26,400	
				\$57,547	\$57,547

Trade Requirements

Coordination	32	hrs	\$135	\$4,320	
Project Supervision	40	hrs	\$135	\$5,400	
				\$9,720	\$9,720
				\$67,267	\$67,267

NEW FIRESTATION
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TGAS - Design Development Cost Estimate

DIVISION 22 - PLUMBING					\$420,000
Equipment					
Water Meter	1	ea	\$2,546	\$2,546	
Backflow Preventor Assembly - 2"	1	ea	\$3,040	\$3,040	
Gas Fired Water Heater	1	ea	\$11,020	\$11,020	
Recirc Pump	1	ea	\$1,046	\$1,046	
Expansion Tank	1	ea	\$2,770	\$2,770	
Thermostatic Mixing Valve	1	ea	\$3,665	\$3,665	
Oil/Water Separator			Included with Sitework		
Air Compressor and Dryer	1	ea	\$15,040	\$15,040	
Trap Primers	10	ea	\$408	\$4,080	
Make Up Water Station	1	ea	\$1,244	\$1,244	
Plumbing Specialties	1	ls	\$6,563	\$6,563	
Plumbing Equipment Connections	18	ea	\$645	\$11,610	
				\$62,624	\$62,624
Fixtures					
Water Closets	5	ea	\$1,349	\$6,745	
Lavatories	5	ea	\$1,234	\$6,170	
Urinals	2	ea	\$1,208	\$2,416	
Showers	3	ea	\$1,943	\$5,829	
Sinks - 1 Bay	2	ea	\$1,270	\$2,540	
Sink - 2 Bay	1	ea	\$1,655	\$1,655	
Garbage Disposal	1	ea	\$416	\$416	
Sink - Mop	1	ea	\$1,234	\$1,234	
Emergency Shower w/ Mixing Valve	1	ea	\$4,073	\$4,073	
Bottle Fill	1	ea	\$2,756	\$2,756	
Hose Stations - CW/HW	2	ea	\$446	\$892	
Hose Reel - Air	5	ea	\$709	\$3,545	
Ice Machine Box	1	ea	\$184	\$184	
Washer Boxes	2	ea	\$404	\$808	
Dishwasher Connections	2	ea	\$404	\$808	
Wall Hydrants	6	ea	\$341	\$2,046	
Hose Bibbs	2	ea	\$247	\$494	
Floor Drains	5	ea	\$625	\$3,125	
Trench Drains	52	lf	\$159	\$8,268	
Roof Drain Combos	7	ea	\$895	\$6,265	
Clean Outs	24	ea	\$263	\$6,312	
Vent thru Roof	6	ea	\$235	\$1,410	
Fixture Rough Ins	29	ea	\$520	\$15,080	
				\$83,071	\$83,071
Piping					
Water	1,480	lf	\$45.90	\$67,932	
Waste	240	lf	\$85.30	\$20,472	
Vent	150	lf	\$82.70	\$12,405	
Oil Waste	130	lf	\$91.70	\$11,921	
Oil Vent	120	lf	\$87.70	\$10,524	
Storm	430	lf	\$132	\$56,760	
Gas	470	lf	\$52.50	\$24,675	
Compressed Air	200	lf	\$60.40	\$12,080	
Insulation	1,480	lf	\$11.80	\$17,464	
				\$234,233	\$234,233
Trade Requirements					
Coordination	80	hrs	\$135	\$10,800	
Project Supervision	120	hrs	\$135	\$16,200	
Excavation and Backfill	217	cuyd	\$48	\$10,400	
Rigging	1	ls	\$3,098	\$3,098	
				\$40,498	\$40,498
				\$420,426	\$420,426

NEW FIRESTATION
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TGAS - Design Development Cost Estimate

DIVISION 23 - HVAC					\$461,000
Equipment					
Packaged Gas Fired Rooftop Unit - RTU 1A	2	tns	\$2,950	\$5,900	
Packaged Gas Fired Rooftop Unit - RTU 1B	2	tns	\$2,950	\$5,900	
Packaged Gas Fired Rooftop Unit - RTU 2A	3	tns	\$2,950	\$8,850	
Packaged Gas Fired Rooftop Unit - RTU 2B	3	tns	\$2,950	\$8,850	
Packaged Gas Fired Rooftop Unit - RTU 3	2	tns	\$2,950	\$5,900	
Packaged Gas Fired Rooftop Unit - RTU 4	3	tns	\$2,950	\$8,850	
Packaged Gas Fired Rooftop Unit - RTU 5	3.5	tns	\$2,950	\$10,325	
Packaged Gas Fired Rooftop Unit - RTU 6	2	tns	\$2,950	\$5,900	
Gas Fired Rooftop Make Up Air Unit - MAU 1	2,500	cfm	\$6.70	\$16,750	
Energy Recovery Unit - ERU 1	800	cfm	\$8.90	\$7,120	
Exhaust Fan - EF 1	1	ea	\$2,344	\$2,344	
Exhaust Fan - EF 2	1	ea	\$4,938	\$4,938	
Exhaust Fan - EF 3	1	ea	\$2,344	\$2,344	
Plymovent Fans - VEF 1	1	ea	\$3,375	\$3,375	
Plymovent Hose Reels	4	ea	\$788	\$3,152	
Electric Unit Heaters	2	ea	\$1,286	\$2,572	
Electric Wall Heaters	2	ea	\$1,499	\$2,998	
(2) Infrared Radiant Heaters	120	lf	\$329	\$39,480	
RGDs	45	ea	\$263	\$11,835	
				\$157,383	\$157,383
Sheet Metal					
Galvanized	7,200	lbs	\$15.30	\$110,160	
Gas Water Heater Vent	1	ea	\$4,188	\$4,188	
Gas Fired Radiant Heater Vent	2	ea	\$1,917	\$3,834	
Sheet Metal Specialties	1	ls	\$5,490	\$5,490	
Equipment Connections	1	ls	\$15,750	\$15,750	
				\$139,422	\$139,422
Internal Lining					
Sheet Metal - Galvi	4,896	sf	\$5.00	\$24,480	
				\$24,480	\$24,480
Controls					
Packaged Rooftops	8	ea	\$3,580	\$28,640	
Gas Fired Make Up Air Unit	1	ea	\$3,580	\$3,580	
Energy Recovery Unit	1	ea	\$3,580	\$3,580	
Exhaust Fans	3	ea	\$2,060	\$6,180	
Vehicle Exhaust Fan	1	ea	\$2,580	\$2,580	
Electric Unit Heaters	2	ea	\$1,083	\$2,166	
Electric Wall Heaters	2	ea	\$1,083	\$2,166	
Infrared Radiant Heaters	2	ea	\$2,455	\$4,910	
BMS Network	1	ls	\$14,890	\$14,890	
				\$68,692	\$68,692
Commissioning					
Start Up	80	hrs	\$135	\$10,800	
Testing, Adjusting, and Balancing	80	hrs	\$125	\$10,000	
3rd Party Cx Assist	40	hrs	\$135	\$5,400	
				\$26,200	\$26,200
Trade Requirements					
Coordination	80	hrs	\$135	\$10,800	
Project Supervision	120	hrs	\$135	\$16,200	
Crane	1	ls	\$9,850	\$9,850	
Rigging	64	hrs	\$125	\$8,000	
				\$44,850	\$44,850
				\$461,027	\$461,027

NEW FIRESTATION
TOWN OF SEEKONK
SCHOOL STREET
SEEKONK, MA

7-Dec-22

TGAS - Design Development Cost Estimate

DIVISION 26 - ELECTRICAL - FILED SUB-BID

DIVISION 26 - BUILDING ELECTRICAL	\$782,000
DIVISION 27 - COMMUNICATIONS	\$84,000
DIVISION 28 - FIRE DETECTION AND ALARMS	\$98,000
DIVISION 26 - ELECTRICAL SITE UTILITIES	<u>\$128,000</u>
	\$1,092,000

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DIVISION 26 - BUILDING ELECTRICAL **\$782,000**

Normal Power and Distribution

SE Rated 600A 208v Main Breaker CT cabinet	1	ea	\$8,596	\$8,596	
Dist. Panel MDP 600A MCB 120/208v	1	ea	\$17,670	\$17,670	
600A Feeder PVC Copper	25	lf	\$343	\$8,575	
600A Feeder EMT Copper	55	lf	\$490	\$26,950	
100A Feeder EMT Copper	20	lf	\$158	\$3,160	
Secondary Service Grounding System	1	ls	\$6,690	\$6,690	
				\$71,641	\$71,641

Machine and Equipment Power

AC-1 7.5HP 30A 3P 208v Connection	1	ea	\$1,242	\$1,242	
ACD-1 20A 120v Connection	1	ea	\$387	\$387	
EF-1 20A 120v Connection	1	ea	\$487	\$487	
EF-2 20A 120v Connection	1	ea	\$487	\$487	
EF-3 20A 120v Connection	1	ea	\$487	\$487	
ERU-1 30A 3P 208v Connection	1	ea	\$1,099	\$1,099	
EUH-1 30A 2P 208v Connection	2	ea	\$476	\$952	
EWB-1 30A 3P 208v Connection	2	ea	\$476	\$952	
MUA-1 30A 3P 208v Connection	1	ea	\$1,099	\$1,099	
RH-1 20A 120v 208v Connection	3	ea	\$388	\$1,164	
RP-1 20A 120v Connection	1	ea	\$387	\$387	
RTU-1A 30A 2p 208v Connection	1	ea	\$1,021	\$1,021	
RTU-1B 30A 2p 208v Connection	1	ea	\$1,021	\$1,021	
RTU-2A 30A 208v Connection	1	ea	\$1,162	\$1,162	
RTU-2B 30A 208v Connection	1	ea	\$1,162	\$1,162	
RTU-3 30A 2p 208v Connection	1	ea	\$1,021	\$1,021	
RTU-4 30A 208v Connection	1	ea	\$1,115	\$1,115	
RTU-5 40A 2p 208v Connection	1	ea	\$1,486	\$1,486	
RTU-6 40A 2p 208v Connection	1	ea	\$1,486	\$1,486	
VEF-1 7.5HP 30A 3P 208v Connection	1	ea	\$1,416	\$1,416	
WH-1 20A 120v Connection	1	ea	\$387	\$387	
3/4" - EMT 3#12	500	lf	\$15.60	\$7,800	
3/4" - EMT 3#10	500	lf	\$17.50	\$8,750	
3/4" - EMT 4#10	350	lf	\$18.80	\$6,580	
3/4" EMT - 3 # 8	150	lf	\$21.80	\$3,270	
				\$46,420	\$46,420

Lighting and Branch

Type K1 LED 4"x4' Linear Pendant	1	ea	\$670	\$670	
Type LT1 LED 2x2 Recessed Troffer	47	ea	\$311	\$14,617	
Type LT2 LED 4' Vapor Proof Linear Strip	12	ea	\$607	\$7,284	
Type LT5 LED 4' Vapor Proof Linear Strip	9	ea	\$607	\$5,463	
Type LT6 LED 8' Low Profile Wrap Around	7	ea	\$708	\$4,956	
Type LT6A LED 4' Low Profile Wrap Around	2	ea	\$498	\$996	
Type R1 LED 4"x4" Recessed Floor Light	4	ea	\$694	\$2,776	
Type SL2 LED Wall Mount Wet Location	4	ea	\$1,158	\$4,632	
Type SL3 LED Wall Mount Wet Location	5	ea	\$1,158	\$5,790	
Type SL4 LED Wall Mount 17" Arch Sconce	3	ea	\$1,039	\$3,117	
Type X1 LED Exit Nema 4X	1	ea	\$607	\$607	
Type X2 LED Exit Alum Housing Battery Back Up	10	ea	\$415	\$4,150	
3/4" - EMT 3#12	300	lf	\$15.60	\$4,680	
3/4" - EMT 7#12	150	lf	\$16.80	\$2,520	
3/4" - EMT 3#10	650	lf	\$17.50	\$11,375	
Luminary Cable MC 12/2 and 14/2 1-10VDC	1,600	lf	\$4.00	\$6,400	
Lighting Control Panels , Relays and Programming	1	ls	\$10,000	\$10,000	
[LKP] Wall Lighting Control Panel	3	ea	\$756	\$2,268	
[PP] Lighting Control Power Pack	26	ea	\$85	\$2,210	
[OS] Ceiling Occupancy sensor	24	ea	\$192	\$4,608	
(VS) Ceiling Vacancy Sensor	7	ea	\$170	\$1,190	
[OS*] Wall Occupancy Sensor	5	ea	\$170	\$850	
[SLD] Wall Mount Dimming Controller	8	ea	\$256	\$2,048	
[Svs] Wall Mount Vacancy Controller	3	ea	\$256	\$768	
[VSD] Wall Mount Dimming Vacancy Controller1	2	ea	\$256	\$512	
SKD Wall Key Switch Dimming Lighting Control	7	ea	\$152	\$1,064	
SL Lv Wall Lighting Control	16	ea	\$152	\$2,432	
25' CAT 6 Lighting Control Cable	101	ea	\$53.50	\$5,404	
Lighting Control Wall Box and Sleeve	54	ea	\$150	\$8,100	
				\$121,487	\$121,487

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DIVISION 26 - ELECTRICAL continued:					\$0
General Power					
15A 125V Clock Receptacle	1	ea	\$118	\$118	
20A 125V Duplex Receptacle, Box and Plate	83	ea	\$115	\$9,545	
20A 125V Duplex GFCI Receptacle, Box and Plate	33	ea	\$129	\$4,257	
20A 125V Duplex GFCI Receptacle, Box and WP plate	13	ea	\$135	\$1,755	
20A 125V Duplex Receptacle w/USB , Box and Plate	5	ea	\$119	\$595	
(2) 20A 125V Duplex Receptacle, Box and Plate	5	ea	\$178	\$890	
(2) 20A 125V Duplex GFCI Receptacle, Box and Plate	1	ea	\$208	\$208	
20A Cord Reel w/ 25' Cable	6	ea	\$1,363	\$8,178	
Washing Machine 20A 125V Duplex Receptacle, Box and Plate	2	ea	\$115	\$230	
Dryer 30A 250V 4W 1PH Receptacle le Box and Plate	2	ea	\$214	\$428	
Range 50A 250V 4W Receptacle, Box and Plate	1	ea	\$277	\$277	
Single Gang Power Floor Box and Raceways	7	ea	\$685	\$4,795	
Office Furniture Floor Box w/ Branch and Telcom Raceways	4	ea	\$1,978	\$7,912	
[CFC] Ceiling Fan Controller	1	ea	\$213	\$213	
Auto Flush/Faucet Valve Connection	4	ea	\$206	\$824	
By-Fold Apparatus Door Wiring and Connections	2	ea	\$5,224	\$10,448	
Control Panel Connection	6	ea	\$204	\$1,224	
Dish Washer Connection	1	ea	\$458	\$458	
FAM Fire Alerting Monitor Location	2	ea	\$134	\$268	
Garage Door Operator Controls	2	ea	\$261	\$522	
Garage Door Operator motor Connection	2	ea	\$204	\$408	
Garage Door Operators	2	ea	\$147	\$294	
Garbage Disposal Connection	2	ea	\$402	\$804	
Gas Detection shut off Control Wiring	1	ea	\$3,786	\$3,786	
In Grade Detection Loop	2	ea	\$3,390	\$6,780	
Microwave 20A 125V Single Receptacle, Box and Plate	2	ea	\$112	\$224	
Range Hood Connection	1	ea	\$228	\$228	
SM Security Monitor Location	2	ea	\$134	\$268	
[NG] Natural Gas detector (FBO)	1	ea	\$147	\$147	
[UC] Natural Gas Utility Control Panel (FBO)	1	ea	\$261	\$261	
3/4" - EMT 3#10	200	lf	\$12.40	\$2,480	
3/4" EMT 3 #12	2,300	lf	\$15.60	\$35,880	
3/4" EMT 4 #12	150	lf	\$16.00	\$2,400	
3/4" EMT 5 #12	710	lf	\$16.40	\$11,644	
3/4" EMT 7 #12	1,600	lf	\$16.80	\$26,880	
3/4" EMT 3 #10	150	lf	\$17.50	\$2,625	
3/4" EMT -3 # 8	150	lf	\$21.80	\$3,270	
				\$151,524	\$151,524
Emergency Power and Distribution					
150KW Diesel Generator w/Exterior weather enclosure	1	ea	\$85,000	\$85,000	
ATS-C 100A 4p 250v Transfer Switch	1	ea	\$7,769	\$7,769	
ATS-E 100A 4p 250v Transfer Switch	1	ea	\$7,769	\$7,769	
ATS-OS 600A 3p 250v Transfer Switch	1	ea	\$20,790	\$20,790	
IP-C 100A Roll up Generator Connection Panel	1	ea	\$10,970	\$10,970	
IP-E 100A Roll up Generator Connection Panel	1	ea	\$10,970	\$10,970	
Dist. Panel OSDP 600A MCB 120/208v	1	ea	\$17,400	\$17,400	
Panel CP-1 100A MCB 120/208v 42p w/SPD	1	ea	\$5,307	\$5,307	
Panel CP-2 100A MCB 120/208v 42p w/SPD	1	ea	\$5,307	\$5,307	
Panel EP-1 100A MCB 120/208v 42p w/SPD	1	ea	\$5,307	\$5,307	
Panel PP-1 200A MCB 120/208v 42p w/SPD	1	ea	\$8,067	\$8,067	
Panel PP-2 200A MCB 120/208v 42p w/SPD	1	ea	\$8,067	\$8,067	
Panel PP-3 200A MCB 120/208v 42p w/SPD	1	ea	\$8,067	\$8,067	
600A Nipple Set and Cable (2) 4"x12"	1	ea	\$2,650	\$2,650	
200A Feeder EMT Copper	150	ea	\$142	\$21,300	
100A Feeder MI Cable	150	ea	\$430	\$64,500	
				\$289,240	\$289,240
Lightning and Power Specialties					
Lightning Protection	1	ls	\$15,000	\$15,000	
				\$15,000	\$15,000
Miscellaneous Systems					
Temporary Service Power and Lights	1	ls	\$25,000	\$25,000	
Subcontractor Site Office and Storage	1	ls	\$30,000	\$30,000	
Subcontractor Lifts and Scaffolding	1	ls	\$10,000	\$10,000	
BIM Coordination	1	ls	\$12,000	\$12,000	
Bond Excluded				Not In Contract	
				\$77,000	\$77,000
Testing and Commissioning					
Testing	1	ls	\$10,000	\$10,000	
				\$10,000	\$10,000
				\$782,312	\$782,312

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DIVISION 27 - COMMUNICATIONS \$84,000

Telephone and Communications Systems

Telecomm Wall Box and 1" Sleeve	20	ea	\$178	\$3,560	
12" Wx 4" D Wire Basket Cable Tray	115	ea	\$54.80	\$6,302	
4-CAT 6A Cables , Termination and Testing	11	ea	\$1,264	\$13,904	
2-CAT 6A Cables , Termination and Testing	3	ea	\$632	\$1,896	
2-CAT 6A Cables , Termination and Testing WAP	3	ea	\$871	\$2,613	
1-CAT 6A Cables , Termination and Testing	2	ea	\$316	\$632	
TV -1-RG6 Cables , Termination and Testing	5	ea	\$353	\$1,765	
IDF Closet Fit Up	1	ea	\$12,000	\$12,000	
IT Switch and Electronics by Owner				\$42,672	\$42,672

Fire House Alerting System

FHA Box and 1" Wall Sleeve	48	ea	\$178	\$8,544	
FHA System Wiring allowance	1	allow	\$8,000	\$8,000	
FHA System Device Installation and Termination	1	allow	\$24,000	\$24,000	
				\$40,544	\$40,544

Public Address Systems

12" Surface Wireless Clock	3	ea	\$410	\$1,230	
				\$1,230	\$1,230
				\$84,446	\$84,446

DIVISION 28 - FIRE DETECTION AND ALARMS \$98,000

Security Access Control and CCTV

Control Panels , Access and CCTV Programming and Commissioning	1	ls	\$10,000	\$10,000	
Security Door Rough-in Raceways and Boxes	6	ea	\$405	\$2,430	
[CR] Car Reader Raceway, Device and wire	4	ea	\$636	\$2,544	
[DC] Door Contact	8	ea	\$107	\$856	
[DJ] 8x8x4 Door Security junction Box	6	ea	\$103	\$618	
[EH] Door Transfer Hinge	8	ea	\$213	\$1,704	
[EL/R] Electrified Lock and Circuit	4	ea	\$391	\$1,564	
[PB] Door Release Panic Hardware	4	ea	\$300	\$1,200	
[REX] Request to Exit Device, Raceway and Cable	4	ea	\$226	\$904	
Exterior wall Mounted Camera and Cable	5	ea	\$2,760	\$13,800	
Interior Dome Camera and Cable	13	ea	\$1,380	\$17,940	
				\$53,560	\$53,560

Fire Alarm System

Equipment ,Devices and Programming	1	ls	\$20,000	\$20,000	
F/A Main Fire Alarm Control Panel	1	ea	\$3,640	\$3,640	
F/A Remote Annunciator	1	ea	\$228	\$228	
F/A Radio Master Box	1	ea	\$455	\$455	
F/A Pull Station Installed w/Back Box	4	ea	\$230	\$920	
F/A Smoke Detector Installed w/Back Box	6	ea	\$375	\$2,250	
F/A Smoke/ CO Detector Installed w/.Back Box	3	ea	\$170	\$510	
F/A Smoke/CO Detector Installed w/Sounder Relay Base and Back Box	5	ea	\$375	\$1,875	
F/A Speaker/strobe wall Mount Installed w/Back Box	14	ea	\$235	\$3,290	
F/A Control Module Relay Fan Shutdown	1	ea	\$292	\$292	
F/A Door Holder Installed w/Back Box	1	ea	\$442	\$442	
F/A SLC/NAC 3/4" EMT and Loop Circuits	400	lf	\$12.50	\$5,000	
F/A 14/4 FPLP/MC Cable	720	lf	\$4.40	\$3,168	
F/A 16/2 FPLP/MC Cable	600	lf	\$3.30	\$1,980	
				\$44,050	\$44,050
				\$97,610	\$97,610

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DIVISION 26 - ELECTRICAL SITE UTILITIES					\$128,000
Electrical Site Distribution					
Primary Service 2x 5" PVC Duct bank	15	If	\$102	\$1,530	
Primary Service Pole Riser 5" GRC	1	ea	\$5,508	\$5,508	
Transformer pad Grounding	1	ea	\$1,805	\$1,805	
Secondary Service 600A (2) 4" PVC	95	If	\$212	\$20,140	
4" capped Raceway for future EV charging	1	ea	\$1,439	\$1,439	
4" capped Raceway for future PV System	1	ea	\$1,439	\$1,439	
1-1/4" PVC for future EV chargers	180	If	\$13.60	\$2,448	
Generator pad Grounding	1	ea	\$2,730	\$2,730	
Generator Feeder 600A (2) 4" PVC	65	If	\$248	\$16,120	
Generator Feeder 100A 1-1/2" PVC	65	If	\$49.20	\$3,198	
Generator Feeder 100A 1-1/2" PVC	65	If	\$49.20	\$3,198	
Generator annunciator circuits 2" PVC	60	If	\$21.80	\$1,308	
Generator start circuits 2" PVC	60	If	\$16.80	\$1,008	
Generator aux Power circuits 2" PVC	60	If	\$24.30	\$1,458	
Excavation and Concrete encasement	1	ls	\$6,500	\$6,500	
				\$69,829	\$69,829
Electrical Site Lighting					
Type SL1 LED Parking Area Light Pole	3	ea	\$3,212	\$9,636	
Type SL7 LED Bollard	7	ea	\$1,364	\$9,548	
1" PVC 3 #8	400	If	\$15.00	\$6,000	
Site Pole Precast Pole Base	3	ea	\$959	\$2,877	
Site Bollard Precast Pole Base	7	ea	\$375	\$2,625	
QZT Site Lighting Hand Hole	4	ea	\$1,075.00	\$4,300	
Excavation	1	ls	\$5,000.00	\$5,000	
				\$39,986	\$39,986
Site Communications					
Raceway to Radio Tower 2x 4" PVC	45	If	\$110	\$4,950	
Telecomm Service 2x4" PVC Duct Bank	110	If	\$55.80	\$6,138	
Telecomm Service Pole Riser (1) 4" GRC	1	ea	\$3,500	\$3,500	
Excavation	1	ls	\$3,500	\$3,500	
				\$18,088	\$18,088
				\$127,903	\$127,903

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SITEWORK AREAS See Page 2 for Sitework Areas

DIVISION 31 - EARTHWORK **\$498,000**

Erosion Controls

Straw Wattles and Silt fence	383	lf	\$8.50	\$3,256	
Stone Entry Aprons	1,317	sf	\$2.30	\$3,029	
Dust Control w/H2O Truck	20,000	ga	\$0.20	\$4,000	
Catch Basin Silt Sacks	5	ea	\$139	\$695	
Concrete Washout Basin	1	ea	\$2,200	\$2,200	
				\$13,180	\$13,180

Clear, Grub, and Strip Topsoil

Site Clearing and Stump Grinding	1	ac	\$8,018	\$8,018	
Grub, Stump and Stockpile small area	1	ac	\$2,395	\$2,395	
Strip and Stockpile Topsoil	1,138	cy	\$5.60	\$6,373	
Export Excess Loam	730	cy	\$6.40	\$4,672	
				\$21,458	\$21,458

Demolition and Removals

Chain Link Fence Removal	141	lf	\$13.40	\$1,889	
Retaining Wall Removal	75	sf	\$25.10	\$1,883	
Water Line Removal	76	lf	\$74.60	\$5,670	
Sewer Line Removal	95	lf	\$21.00	\$1,995	
Septic Distribution Line Removal	234	lf	\$12.10	\$2,831	
Pavement Sawcutting	465	lf	\$7.80	\$3,627	
D Box Structure Removal	1	ea	\$130	\$130	
Flag Pole Base Removal	1	ea	\$412	\$412	
Asphalt Disposal	874	sy	\$14.40	\$12,586	
Asphalt S.W Pavement Removal	60	sy	\$12.80	\$768	
Concrete Sidewalk and Stair Removal	19	sy	\$50.20	\$954	
Building Demolition				By Owner	
Pump Septic Tank	1	ea	\$941	\$941	
Septic Tank Demolition / Disposal	1	ea	\$709	\$709	
				\$34,394	\$34,394

Earthwork

Cut to Fill w/ 330 Exc	621	cy	\$7.50	\$4,658	
Imported Structural Borrow - D5	470	cy	\$44.90	\$21,103	
Unsuitable Export	768	cy	\$23.40	\$17,971	
				\$43,732	\$43,732

Retaining Wall Work

Sm. Retaining Wall E&B	44	lf	\$25.40	\$1,118	
Stone Strong Wall-MBO	244	sf	\$60.80	\$14,835	
				\$15,953	\$15,953

Building Earthwork

Mid Sized Foundation Wall Exc.	701	lf	\$38.10	\$26,708	
FS Slab Gravel w/ Finegrading	253	cy	\$61.70	\$15,610	
Oil Interceptor Valve Pit E&B	10	cy	\$125	\$1,250	
Interior Haunch Shaping (24"++)	150	lf	\$12.80	\$1,920	
Interior Piers Exc/Back	28	ea	\$561	\$15,708	
Interior Electric E/B w/M305	200	lf	\$13.30	\$2,660	
Interior Plumbing E/B	575	lf	\$32.70	\$18,803	
Interior Trench Drain E/B	54	lf	\$30.00	\$1,620	
				\$84,279	\$84,279

Drainage Systems

6" ADS w/Fittings	112	lf	\$43.70	\$4,894	
6" ADS Foundation Drain w/Fittings	395	lf	\$43.80	\$17,301	
12" ADS Drain 2	486	lf	\$56.60	\$27,508	
12" ADS Manifolds for Infiltration System	122	lf	\$134	\$16,348	
15" ADS Line	66	lf	\$54.40	\$3,590	
18" ADS Line	4	lf	\$74.70	\$299	
4' Deep DMH (4' Dia)	2	ea	\$1,881	\$3,762	
5' Deep DMH (4' Dia)	2	ea	\$2,004	\$4,008	
6' Deep DMH (4' Dia)	1	ea	\$2,289	\$2,289	
7' Deep CB(4' Dia) 4' Sump	3	ea	\$2,766	\$8,298	
6' Deep Leach Pit (6' Dia)	1	ea	\$4,248	\$4,248	
Stormtech MC 740 Infiltration System	72	ea	\$1,677	\$120,744	
Trench Drain - Precast	54	lf	\$263	\$14,202	
Area Drains	3	ea	\$2,583	\$7,749	
				\$235,240	\$235,240

Grading and Graveling for walks, pads, drives, and roads

Conc Walk Subgrade	351	sy	\$9.90	\$3,475	
Concrete Walk Aggregate Base	73	cy	\$107	\$7,811	
Dumpster and Gen Pad Subgrade	32	sy	\$14.80	\$474	
Dumpster and Gen Pad Stone Base	126	cy	\$108	\$13,608	
Heavy Duty Asphalt and Parking Pavement Base Material Placement	364	cy	\$53.90	\$19,620	
Driveway / Parking Subgrade	1,222	sy	\$3.60	\$4,399	
				\$49,386	\$49,386
				\$497,621	\$497,621

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DIVISION 32- SITE IMPROVEMENTS **\$197,000**

Pavements and Curbs

Place Vertical Concrete Curb	275	lf	\$39.00	\$10,725
Asphalt Curb - Berm	460	lf	\$6.30	\$2,898
4" Bituminous Pavement	931	sy	\$36.30	\$33,795
4.5" Bituminous H D Pavement	292	sy	\$46.40	\$13,549
Utility Trench Patch	57	sy	\$224	\$12,768
F & I Dumpster and Gen Pad	280	sf	\$37.70	\$10,556
5" Concrete Walk w/Wire Mesh	351	sy	\$133	\$46,683
				<u>\$130,974</u>

\$130,974

Topsoil Placement and Seeding

Hydroseeding for Erosion Control	19,880	sf	\$0.20	\$3,976
Screen and Respread Topsoil	460	cy	\$18.10	\$8,326
Landscape Area Subgrading (318)	2,210	sy	\$2.50	\$5,525
F&I Jute for Slope Stabilization	380	sf	\$0.50	\$190
Landscape Plantings	1	Allowance	\$15,000	\$15,000
				<u>\$33,017</u>

\$33,017

Miscellaneous Site Furnishings and Cleanup

F&I Bollards	10	ea	\$1,194	\$11,940
Site Signs and Markings	1	ls	\$6,264	\$6,264
Flagpole Base Preparation and Installation	1	ea	\$7,379	\$7,379
Dumpster Enclosure w/Fencing	50	lf	\$157	\$7,850
				<u>\$33,433</u>

\$33,433

\$197,424

DIVISION 33 - UTILITIES **\$173,000**

Sewer Systems

E & B For ZURN Sand / Oil Collection Tank	1	ea	\$2,735	\$2,735
4" Building Sewer, Short Runs	45	lf	\$57.30	\$2,579
4" Plumber C I Trench Line E&B	25	lf	\$20.30	\$508
6" SDR 35 Cleanout	1	ea	\$1,047	\$1,047
6" SDR 35 Sewer Service	32	lf	\$60.80	\$1,946
Exc. Trench and Install Leaching Pipe	200	lf	\$25.30	\$5,060
Leach Field Cover w/One Machine	110	cy	\$9.90	\$1,089
Leach Field Stone Installation	55	tn	\$50.80	\$2,794
Septic Bed Excavation	151	cy	\$10.60	\$1,601
7 Hole Distribution Box	1	ea	\$1,752	\$1,752
Inspection Port	3	ea	\$502	\$1,506
1,500 Gal Septic Tank	1	ea	\$6,237	\$6,237
3,500 Tight Tank E & B	2	ea	\$4,233	\$8,466
				<u>\$37,318</u>

\$37,318

Water Systems

2" Water Service - Poly	296	lf	\$59.30	\$17,553
Hydrant installation	1	ea	\$8,953	\$8,953
Basic 8" Water	320	lf	\$119	\$38,080
Cut in 8" Valves and Tees	1	ea	\$34,040	\$34,040
				<u>\$98,626</u>

\$98,626

Electrical Systems

Elec/Tele/Catv Duct Bank Exc/Back	12	lf	\$35.60	\$427
Light Bases F & I	3	ea	\$1,250	\$3,750
Site Lighting Exc/Back	385	lf	\$15.40	\$5,929
Furnish and Install Precast Transformer Pad	1	ea	\$1,898	\$1,898
Secondary Electric Trenching(Generator, ev charging, Radio Twr Stub)	154	lf	\$77.60	\$11,950
Light Bollard Bases Exc/Back	7	ea	\$173	\$1,211
Fiber Optic / DATA Exc/Back	25	lf	\$15.10	\$378
				<u>\$25,543</u>

\$25,543

Fuel and Miscellaneous Utility Systems (12)

Gas Line Exc/Back	210	lf	\$54.00	\$11,340
				<u>\$11,340</u>

\$11,340

\$172,827