Schematic Design Cost Estimate

New Public Works Facility

14 Forest Road

Town of Acton, Ma

Prepared by:

TCi Construction Cost Estimating

Post Office Box 1988

North Falmouth, Ma 02556

www.tortoraconsulting.com

p 781-275-5511

Prepared for:

Weston and Sampson

November 1, 2024

MAIN CONSTRUCTION COST SUMMARY

Phase	Scope	Bid Date	Building GSF	$/sf	Estimated Construction Cost
PHASE 1	Fleet storage garage, Maintenance, Wash Bay, Salt Shed addition and Sitework		34,605	$688.32	$23,819,474
PHASE 2	Temporary Shop, Admin trailer utilities, Demolition of existing building and Site prep for phase 3				$1,056,752
PHASE 3	Admin/Support, Shops and Sitework		12,279	$1,064.41	$13,069,942
TOTAL BASE CONSTRUCTION COSTS		**4TH QTR 2025**	**46,884**	**$809.36**	**$37,946,168**

Alternate

1. Add 10,000 gallon rainwater catchment system for wash bay	add	**$130,487**

QUALIFICATIONS

This Schematic Design cost estimate was produced from drawings prepared by Weston and Sampson and their design team dated October 4, 2024.

This estimate includes all direct construction costs, general contractor’s overhead and profit and design contingency. Cost escalation assumes bid date in 12 months.

Bidding conditions are expected to be public bidding to pre-qualified general contractors, and pre-qualified sub-contractors, open specifications for materials and manufactures. The project is expected to be bid and construction start there after with one continuous phase.

The estimate is based on prevailing wage rates for construction in this market and represents a reasonable opinion of cost. It is not a prediction of the successful bid from a contractor as bids will vary due to fluctuating market conditions, errors and omissions, proprietary specifications, lack or surplus of bidders, perception of risk, etc. Consequently the estimate is expected to fall within the range of bids from a number of competitive contractors or subcontractors, however we do not warrant that bids or negotiated prices will not vary from the final construction cost estimate.

ITEMS NOT CONSIDERED IN THIS ESTIMATE

All professional fees and insurance
All Furnishings, Fixtures and Equipment not identified
Items identified in the design as Not In Contract (NIC)
Items identified in the design as by others
Special foundations (unless indicated by design engineers)
Utility company back charges, including work required off-site
Work to City streets and sidewalks, (except as noted in this estimate)
Construction or occupancy phasing or off hours’ work, (except as noted in this estimate)
Off hours
Ledge & contaminated soils
Building Permit
Temporary trailer rentals
Renovation to existing buildings to remain

CONSTRUCTION COST SUMMARY IN CSI FORMAT	*PHASE 1*	*34,605* *$/SF*	*PHASE 2*	*PHASE 3*	*12,279* *$/SF*	*TOTAL*	*46,884* *$/SF*
DIV. 2 DEMOLITION							
020500 Demolition	$0	*$0.00*	$288,900	$0	*$0.00*	$288,900	*$6.16*
024500 Hazardous Material Abatement	$0	*$0.00*	$100,000	$0	*$0.00*	$100,000	*$2.13*
DIV. 3 CONCRETE							
033000 Cast-in-Place Concrete	$1,479,670	*$42.76*	$0	$510,100	*$41.54*	$1,989,770	*$42.44*
DIV. 4 MASONRY							
042000 Unit Masonry (part of 040001 FSB)	$262,244	*$7.58*	$0	$132,952	*$10.83*	$395,196	*$8.43*
DIV. 5 METALS							
055000 Metal Fabrications (part of 050001 FSB)	$426,385	*$12.32*	$0	$159,349	*$12.98*	$585,734	*$12.49*
DIV. 6 WOODS & PLASTICS							
061000 Rough Carpentry	$131,490	*$3.80*	$0	$14,320	*$1.17*	$145,810	*$3.11*
064020 Interior Architectural Woodwork	$770	*$0.02*	$0	$103,285	*$8.41*	$104,055	*$2.22*
DIV. 7 THERMAL & MOISTURE PROTECTION							
072100 Thermal Insulation	$160,050	*$4.63*	$0	$31,420	*$2.56*	$191,470	*$4.08*
072700 Air Barriers & Waterproofing (part of 070001 FSB)	$51,140	*$1.48*	$0	$30,160	*$2.46*	$81,300	*$1.73*
074600 Cement Board Siding and Trim	$0	*$0.00*	$0	$0	*$0.00*	$0	*$0.00*
075400 Membrane Roofing (part of 070002 FSB)	$0	*$0.00*	$0	$5,000	*$0.41*	$5,000	*$0.11*
075450 Metal Roofing System (part of 070002 FSB)	$87,400	*$2.53*	$0	$0	*$0.00*	$87,400	*$1.86*
077200 Roof Accessories	$8,400	*$0.24*	$0	$8,400	*$0.68*	$16,800	*$0.36*
078410 Penetration Firestopping	$16,766	*$0.48*	$0	$14,175	*$1.15*	$30,941	*$0.66*
079200 Joint Sealants (part of 070001 FSB)	$154,090	*$4.45*	$0	$62,976	*$5.13*	$217,066	*$4.63*
DIV. 8 DOORS & WINDOWS							
081110 Doors and Frames	$63,600	*$1.84*	$0	$61,200	*$4.98*	$124,800	*$2.66*
083110 Access Doors and Frames	$0	*$0.00*	$0	$0	*$0.00*	$0	*$0.00*
083310 Overhead Coiling Doors	$296,320	*$8.56*	$0	$64,680	*$5.27*	$361,000	*$7.70*
084500 Aluminum Windows and Storefronts	$16,000	*$0.46*	$0	$228,000	*$18.57*	$244,000	*$5.20*
084550 Skylights	$61,600	*$1.78*	$0	$0	*$0.00*	$61,600	*$1.31*
084555 Sunshades	$14,300	*$0.41*	$0	$68,750	*$5.60*	$83,050	*$1.77*
084600 Translucent Windows	$170,000	*$4.91*	$0	$0	*$0.00*	$170,000	*$3.63*
087100 Door Hardware	$18,700	*$0.54*	$0	$27,650	*$2.25*	$46,350	*$0.99*
088000 Glazing	$1,750	*$0.05*	$0	$7,000	*$0.57*	$8,750	*$0.19*
089000 Louvers and Vents	$5,000	*$0.14*	$0	$5,000	*$0.41*	$10,000	*$0.21*
DIV. 9 FINISHES							
092110 Gypsum Board Assemblies	$366,388	*$10.59*	$0	$623,556	*$50.78*	$989,944	*$21.11*
093000 Tiling	$4,340	*$0.13*	$0	$58,275	*$4.75*	$62,615	*$1.34*
095100 Acoustical Ceilings	$2,640	*$0.08*	$0	$74,400	*$6.06*	$77,040	*$1.64*
096510 Resilient Flooring and Accessories	$3,680	*$0.11*	$0	$46,368	*$3.78*	$50,048	*$1.07*
096550 Carpet	$0	*$0.00*	$0	$23,200	*$1.89*	$23,200	*$0.49*
097300 Resinous flooring and base	$0	*$0.00*	$0	$18,700	*$1.52*	$18,700	*$0.40*
099000 Painting and Coating (part of 090007 FSB)	$234,651	*$6.78*	$0	$112,466	*$9.16*	$347,117	*$7.40*
DIV 10 SPECIALTIES							
101400 Signage	$8,250	*$0.24*	$0	$15,325	*$1.25*	$23,575	*$0.50*
102800 Toilet Accessories	$1,025	*$0.03*	$0	$11,190	*$0.91*	$12,215	*$0.26*
104400 Fire Protection Specialties	$1,800	*$0.05*	$0	$1,200	*$0.10*	$3,000	*$0.06*
106500 Toilet Partitions	$0	*$0.00*	$0	$7,550	*$0.61*	$7,550	*$0.16*
108500 Lockers	$0	*$0.00*	$0	$31,000	*$2.52*	$31,000	*$0.66*
109400 Screen Partitions	$18,700	*$0.54*	$0	$0	*$0.00*	$18,700	*$0.40*
109500 Fall Arrest	$32,500	*$0.94*	$0	$13,000	*$1.06*	$45,500	*$0.97*
DIV. 11 EQUIPMENT							
113100 Appliances	$0	*$0.00*	$0	$19,000	*$1.55*	$19,000	*$0.41*
118100 Industrial Equipment	$897,300	*$25.93*	$25,700	$134,250	*$10.93*	$1,057,250	*$22.55*

CONSTRUCTION COST SUMMARY IN CSI FORMAT		*PHASE 1*	*$/SF* 34,605	*PHASE 2*	*PHASE 3*	*$/SF* 12,279	*TOTAL*	*$/SF* 46,884
DIV. 12 FURNISHINGS								
122110 Horizontal Louver Blinds		$1,200	*$0.03*	$0	$31,050	*$2.53*	$32,250	*$0.69*
DIV. 13 SPECIAL CONSTRUCTION								
13100 Pre-fabricated Metal Building, Mezzanine Steel and Decking		$4,102,975	*$118.57*	$0	$1,436,150	*$116.96*	$5,539,125	*$118.15*
13200 Pre-fabricated Building (salt shed)		$0	*$0.00*	$0	$0	*$0.00*	$0	*$0.00*
13300 Fuel Island Equipment and Canopy		$0	*$0.00*	$0	$0	*$0.00*	$0	*$0.00*
DIV. 21 FIRE SUPPRESSION								
210000 Fire Suppression - FSB		$435,970	*$12.60*	$0	$154,400	*$12.57*	$590,370	*$12.59*
DIV. 22 PLUMBING								
220000 Plumbing - FSB		$911,550	*$26.34*	$17,500	$405,550	*$33.03*	$1,334,600	*$28.47*
DIV. 23 HVAC								
220000 HVAC - FSB		$2,677,710	*$77.38*	$22,500	$2,363,029	*$192.44*	$5,063,239	*$108.00*
DIV. 26 ELECTRICAL								
260000 Electrical - FSB		$1,730,794	*$50.02*	$42,500	$596,046	*$48.54*	$2,369,340	*$50.54*
DIV. 31 EARTHWORK								
311000 Site Clearing		$414,000	*$11.96*	$135,800	$22,500	*$1.83*	$572,300	*$12.21*
312000 Earthwork		$889,320	*$25.70*	$57,500	$128,480	*$10.46*	$1,075,300	*$22.94*
312500 Erosion and Sedimentation Controls		$30,000	*$0.87*	$18,000	$18,000	*$1.47*	$66,000	*$1.41*
315000 Ground Improvements		$0	*$0.00*	$0	$0	*$0.00*	$0	*$0.00*
DIV. 32 EXTERIOR IMPROVEMENTS								
321216 Asphalt Paving		$202,000	*$5.84*	$0	$560,780	*$45.67*	$762,780	*$16.27*
321213 Portland Cement Concrete Paving		$25,740	*$0.74*	$0	$20,300	*$1.65*	$46,040	*$0.98*
321613 Curbs and Gutters		$7,000	*$0.20*	$0	$69,410	*$5.65*	$76,410	*$1.63*
323100 Site Improvements		$612,000	*$17.69*	$15,000	$119,200	*$9.71*	$746,200	*$15.92*
329000 Landscaping		$104,500	*$3.02*	$0	$75,000	*$6.11*	$179,500	*$3.83*
DIV. 33 UTILITIES								
331000 Site Water Distribution		$68,350	*$1.98*	$15,000	$0	*$0.00*	$83,350	*$1.78*
333000 Sanitary Sewerage Utilities		$96,600	*$2.79*	$15,000	$160,300	*$13.05*	$271,900	*$5.80*
334000 Storm Drainage		$126,000	*$3.64*	$10,000	$681,350	*$55.49*	$817,350	*$17.43*
335000 Gas		$0	*$0.00*	$10,000	$0	*$0.00*	$10,000	*$0.21*
SUBTOTAL DIRECT (TRADE) COST		*$17,432,658*	*$503.76*	*$773,400*	*$9,565,442*	*$779.01*	***$27,771,500***	*$592.34*
GENERAL CONDITIONS & REQUIREMENTS	11%	$1,917,592		$85,074	$1,052,199		$3,054,865	
GL INSURANCE	1.5%	$261,490		$11,601	$143,482		$416,573	
BONDS	1.8%	$313,788		$13,921	$172,178		$499,887	
GC - OVERHEAD & PROFIT	3.5%	$697,393		$30,940	$382,666		$1,110,999	
DESIGN AND PRICING CONTINGENCY	10%	$2,062,292		$91,494	$1,131,597		$3,285,383	
1 YEAR ESCALATION TO 4TH QUARTER 2025 BID OPENING	5%	$1,134,261		$50,322	$622,378		$1,806,961	
TOTAL BASE CONSTRUCTION COSTS		$23,819,474	*$688.32*	$1,056,752	$13,069,942	*$1,064.41*	**$37,946,168**	***$809.36***

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PHASE 1 Fleet storage garage, Maintenance, Wash Bay, Salt Shed addition and Sitework						
	GROSS FLOOR AREA CALCULATION						
	Fleet Storage Garage			**25,100**			
	Maintenance			**7,705**			
	Wash Bay			**1,800**			
	Mezzanines			**8,860**			
	TOTAL GROSS FLOOR AREA (does not include mezzanines)				**34,605**	*gsf*	
	A10 FOUNDATIONS						
	A1010 STANDARD FOUNDATIONS						
	Strip footings to walls						
03300	Formwork	**2,106**	sf	18.00	37,908		
03300	Re-bar	**7,380**	lbs	3.00	22,140		
03300	Concrete material	**123**	cy	190.00	23,370		
03300	Placing concrete	**123**	cy	65.00	7,995		
	Foundation walls						
03300	Formwork	**12,636**	sf	18.00	227,448		
03300	Re-bar	**23,985**	lbs	3.00	71,955		
03300	Concrete material	**369**	cy	190.00	70,110		
03300	Placing concrete	**369**	cy	65.00	23,985		
07210	2.5” Polyisocyanurate	**4,212**	sf	10.00	42,120		
	Back up knee walls						
03300	Formwork	**4,720**	sf	18.00	84,960		
03300	Re-bar	**4,160**	lbs	3.00	12,480		
03300	Concrete material	**64**	cy	195.00	12,480		
03300	Placing concrete	**64**	cy	65.00	4,160		
	Column footings						
03300	Formwork	**3,200**	sf	18.00	57,600		
03300	Re-bar	**18,675**	lbs	3.00	56,025		
03300	Concrete material	**249**	cy	190.00	47,310		
03300	Placing concrete	**249**	cy	65.00	16,185		
	Piers						
03300	Formwork	**960**	sf	18.00	17,280		
03300	Re-bar	**1,425**	lbs	3.00	4,275		
03300	Concrete material	**19**	cy	190.00	3,610		
03300	Placing concrete	**19**	cy	65.00	1,235		
	SUBTOTAL					844,631	
	A1030 LOWEST FLOOR CONSTRUCTION						
	8" Slab on grade						
03300	Vapor barrier	**34,605**	sf	2.50	86,513		
03300	Reinforcing	**38,066**	sf	2.00	76,132		
03300	Concrete - 8" thick	**915**	cy	190.00	173,850		
03300	Placing concrete	**915**	cy	45.00	41,175		
03300	Finishing and curing concrete	**34,605**	sf	1.65	57,098		
03300	Control joints - saw cut	**34,605**	sf	0.50	17,303		
	Miscellaneous						
07210	1” Polyisocyanurate below slabs	**7,705**	sf	6.00	46,230		
03300	4' haunch under CM walls	**500**	lf	45.00	22,500		
03300	Pits, curbs, pads and misc equipment supports	**1**	ls	20,000.00	20,000		
	SUBTOTAL					540,801	
	TOTAL - FOUNDATIONS						***$1,385,432***

CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PHASE 1	Fleet storage garage, Maintenance, Wash Bay, Salt Shed addition and Sitework						
	B10	***SUPERSTRUCTURE***						
	B1010	**FLOOR CONSTRUCTION**						
		Mezzanine Floor Structure - Steel:						
13100		W columns, beam, bracing, HSS tubes, L angles and Channels	**62**	tons	6,500.00	403,000		
		Mezzanine Floor Structure						
13100		Floor deck - 1 1/2'' deck	**8,860**	sf	7.50	66,450		
03300		WWF reinforcement	**10,189**	sf	2.00	20,378		
03300		Concrete to metal deck	**117**	cy	190.00	22,230		
03300		Place and finish concrete	**8,860**	sf	2.50	22,150		
		Miscellaneous						
05500		Misc metals - overall added cost for FSB pricing	**34,605**	sf	6.00	207,630		
07841		Firestopping	**34,605**	sf	0.34	11,766		
		SUBTOTAL					753,604	
	B1020	**ROOF CONSTRUCTION**						
		Pre-fabricated Structure (includes steel, insulated metal panels walls and roof) :						
13100		Main Building - Prefabricated metal building package (galv steel, insulated metal panels, metal roof with fabric liner insulation/VR, gutters, downspouts and snow guards)	**34,605**	sf	105.00	3,633,525		
		Miscellaneous						
05500		Overhead door openings	**10**	ea	2,000.00	20,000		
05500		Skylight openings	**512**	sf	15.00	7,680		
05500		Window openings	**80**	sf	15.00	1,200		
05500		Translucent window openings	**1,360**	sf	15.00	20,400		
		SUBTOTAL					3,682,805	
		TOTAL - SUPERSTRUCTURE						***$4,436,409***
	B20	***EXTERIOR CLOSURE***						
	B2010	**EXTERIOR WALLS**						
		CMU veneer						
04200		CMU veneer	**2,250**	sf	60.00	135,000		
07270		Air barrier	**2,250**	sf	10.00	22,500		
07210		Rigid insulation	**2,250**	sf	8.00	18,000		
		SUBTOTAL					175,500	
	B2020	**WINDOWS**						
84600		Translucent windows	**1,360**	sf	125.00	170,000		
84500		Triple glazed windows	**80**	sf	200.00	16,000		
08900		Louvers	**1**	ls	5,000.00	5,000		
84555		Sunshades	**26**	lf	550.00	14,300		
07920		Backer rod & double sealant	**720**	lf	15.00	10,800		
07270		Flashings	**720**	lf	16.00	11,520		
06100		Wood blocking at openings	**720**	lf	12.00	8,640		
07920		Waterproofing - overall added cost for FSB pricing	**34,605**	sf	4.00	138,420		
		SUBTOTAL					374,680	

CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PHASE 1	Fleet storage garage, Maintenance, Wash Bay, Salt Shed addition and Sitework						
	B2030	**EXTERIOR DOORS**						
		Overhead doors						
08331		18x16 OHD	**2**	ea	31,680.00	63,360		
08331		16x16 OHD	**6**	ea	28,160.00	168,960		
08331		16x16 OHD poly washbay	**2**	ea	32,000.00	64,000		
		Man Doors						
08111		Ext 3x7 doors flush	**3**	lvs	1,650.00	4,950		
08111		Ext 3x7 doors with half lite and transom	**6**	ea	4,800.00	28,800		
08710		Hardware	**9**	lvs	850.00	7,650		
		Misc						
07270		Flashings	**200**	lf	16.00	3,200		
07920		Backer rod & double sealant	**200**	lf	15.00	3,000		
06100		Wood blocking at openings	**200**	lf	12.00	2,400		
		SUBTOTAL					346,320	
		TOTAL - EXTERIOR CLOSURE						***$896,500***
	B30	***ROOFING***						
	B3010	**ROOF COVERINGS**						
		All roofing, gutters, downspouts and snow guards included with Prefabricated metal building						
		SUBTOTAL					-	
	B3020	**ROOF OPENINGS**						
84550		4'x8' skylights	**16**	ea	3,850.00	61,600		
07720		Roof hatch and ladder	**1**	ea	6,750.00	6,750		
07720		Roof ladder	**1**	ea	1,650.00	1,650		
10950		Fall arrest system	**50**	ea	650.00	32,500		
		SUBTOTAL					102,500	
		TOTAL - ROOFING						**$102,500**
	C10	***INTERIOR CONSTRUCTION***						
	C1010	**PARTITIONS**						
09211		Fur-out GWB partition	**1,080**	sf	15.00	16,200		
09211		GWB partitions at mezz	**1,648**	sf	22.00	36,256		
09211		GWB rated partition	**700**	sf	25.00	17,500		
09211		Plumbing wall	**140**	sf	26.00	3,640		
04200		8" CMU walls	**3,028**	sf	38.00	115,064		
10940		Screen partition and door	**44**	lf	425.00	18,700		
		Separation walls - F lower						
03300		Cast in place 8" concrete knee wall	**30**	cy	800.00	24,000		
07210		2" rigid insulation	**600**	sf	7.00	4,200		
09211		6" metal stud	**600**	sf	16.00	9,600		
09211		5/8" GWB	**600**	sf	7.00	4,200		
		Separation walls - F upper						
03300		5/8" GWB	**3,300**	sf	7.00	23,100		
09211		2 rows 6" metal stud	**6,600**	sf	16.00	105,600		
07210		3" closed cell spray foam	**3,300**	sf	15.00	49,500		
09211		5/8" GWB	**3,300**	sf	7.00	23,100		

CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PHASE 1	Fleet storage garage, Maintenance, Wash Bay, Salt Shed addition and Sitework						
		Wash bay separation wall						
03300		Concrete curb	**58**	lf	60.00	3,480		
04200		CMU wall to 6'	**348**	sf	35.00	12,180		
09211		Gyp sheathing	**1,392**	sf	8.00	11,136		
07270		Vapor permeable barrier	**1,392**	sf	10.00	13,920		
09211		6" metal stud	**1,392**	sf	16.00	22,272		
09211		5/8" GWB	**1,392**	sf	7.00	9,744		
		Misc						
09211		Rough blocking	**500**	lf	8.00	4,000		
07841		Safing/firestopping	**1**	ls	5,000.00	5,000		
		SUBTOTAL					532,392	
	C1020	**INTERIOR DOORS**						
		Doors & Frames						
08111		Interior doors - single	**6**	ea	1,100.00	6,600		
08111		Interior doors - double	**9**	ea	1,950.00	17,550		
08111		Single door with sidelight	**1**	ea	2,200.00	2,200		
08111		Interior windows	**1**	ea	3,500.00	3,500		
		Hardware						
08710		Hardware	**17**	lvs	650.00	11,050		
		Glazing						
08800		Glazing to doors	**20**	sf	50.00	1,000		
08800		Glazing to frames	**15**	sf	50.00	750		
09900		Paint HM frames	**17**	ea	165.00	2,805		
07920		Sealants & caulking	**17**	ea	110.00	1,870		
		SUBTOTAL					47,325	
	C1030	**SPECIALTIES / MILLWORK**						
06402		Window sills	**14**	lf	55.00	770		
10280		Soap disp	**1**	ea	30.00	30		
10280		Mirror	**1**	ea	275.00	275		
10280		Robe hook	**2**	ea	25.00	50		
10280		Grab bar	**2**	ea	125.00	250		
10280		TTD	**1**	ea	65.00	65		
10280		PTD	**1**	ea	285.00	285		
10280		Hooks	**2**	ea	35.00	70		
10440		Fire extinguisher cabinets	**6**	ea	300.00	1,800		
10140		Cast alum letters - main sign	**1**	ls	2,500.00	2,500		
10140		Cast alum letters - OHDs	**10**	ea	175.00	1,750		
10140		Interior signage	**1**	ls	2,500.00	2,500		
10140		Code signage	**1**	ls	1,500.00	1,500		
		SUBTOTAL					11,845	
		TOTAL - INTERIOR CONSTRUCTION						***$591,562***
	C20	***STAIRCASES***						
	C2010	**STAIR CONSTRUCTION**						
05500		Mezzanine Stairs	**3**	ea	18,000.00	54,000		
05500		3 step Stairs	**1**	ea	5,000.00	5,000		
05500		Mezzanine railings	**345**	lf	175.00	60,375		
05500		Gates	**3**	ea	1,500.00	4,500		
03300		Concrete material in pan infill	**2**	ea	950.00	1,900		
		SUBTOTAL					125,775	
	C2020	**STAIR FINISHES**						
09900		Paint to mezzanine stairs	**2**	ea	3,200.00	6,400		
09900		Paint to mezzanine rails/gates	**345**	lf	30.00	10,350		
		SUBTOTAL					16,750	
		TOTAL - STAIRCASES						***$142,525***

CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PHASE 1	Fleet storage garage, Maintenance, Wash Bay, Salt Shed addition and Sitework						
	C30	***INTERIOR FINISHES***						
	C3010	**WALL FINISHES**						
09900		Paint to interior walls	**24,500**	sf	2.00	49,000		
09300		Wall tile at toilet wet wall	**64**	sf	35.00	2,240		
09211		Wash bay PVC panels on furring	**3,500**	sf	25.00	87,500		
		SUBTOTAL					138,740	
	C3020	**FLOOR FINISHES**						
09651		Linoleum	**220**	sf	14.00	3,080		
09900		SC - Sealed Concrete	**43,185**	sf	1.75	75,574		
09300		Tile	**60**	sf	35.00	2,100		
09651		Rubber base	**100**	lf	6.00	600		
09900		Line stripping	**800**	sf	4.00	3,200		
		SUBTOTAL					84,554	
	C3030	**CEILING FINISHES**						
09510		A1 - ACT ceilings; 2' x 2'	**220**	sf	12.00	2,640		
09211		GWB ceilings	**60**	sf	18.00	1,080		
09211		Mech platform framing and plywood	**416**	sf	35.00	14,560		
09900		Paint to GWB ceilings and soffits	**476**	sf	2.00	952		
09900		Exposed prefab/mezz metal columns and beams	**43,185**	sf	2.00	86,370		
		SUBTOTAL					105,602	
		TOTAL - INTERIOR FINISHES						***328,896***
	D20	***PLUMBING***						
	D20	**PLUMBING**						
		Equipment						
220000		Water Meter	**1**	ea	2,600.00	2,600		
220000		Backflow Preventor Assembly	**1**	ea	4,500.00	4,500		
220000		Water Pressure Regulator	**1**	ea	1,500.00	1,500		
220000		Gas Fired Water Heaters	**2**	ea	12,000.00	24,000		
220000		Recirc Pumps	**1**	ea	1,500.00	1,500		
220000		Expansion Tanks	**1**	ea	600.00	600		
220000		Thermostatic Mixing Valve	**1**	ea	1,350.00	1,350		
220000		Oil/Water Seperator	**1**	ea	12,500.00	12,500		
220000		Air Compressor w/ Dryer	**1**	ea	25,000.00	25,000		
220000		Trap Primers	**8**	ea	500.00	4,000		
220000		Make Up Water Station	**1**	ea	1,500.00	1,500		
220000		Plumbing Specialties	**1**	ls	7,500.00	7,500		
220000		Equipment Connections	**20**	ea	550.00	11,000		
		Fixtures						
220000		Water Closets	**1**	ea	2,350.00	2,350		
220000		Lavatory - wall hung	**1**	ea	2,250.00	2,250		
220000		Shop sink	**1**	ea	1,650.00	1,650		
220000		Emergency Shower	**1**	ea	4,500.00	4,500		
220000		Floor Drains	**18**	ea	850.00	15,300		
220000		Trench Drains	**280**	lf	150.00	42,000		
220000		Trench Drain Catch Basin	**1**	ea	2,500.00	2,500		
220000		Clean Outs	**12**	ea	250.00	3,000		
220000		Air Stations	**6**	ea	425.00	2,550		
220000		Hose Reel - Air	**4**	ea	850.00	3,400		
220000		Fixture Connections	**4**	ea	650.00	2,600		
		Piping						
220000		All piping and insulation	**10,500**	lf	65.00	682,500		
		Trade Requirements						
220000		Project Supervision	**200**	hrs	130.00	26,000		
220000		Coordination	**180**	hrs	130.00	23,400		
		SUBTOTAL					911,550	
		TOTAL - PLUMBING						***$911,550***

CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PHASE 1	Fleet storage garage, Maintenance, Wash Bay, Salt Shed addition and Sitework						
	D30	*HVAC*						
	D30	**HVAC**						
230000		Equipment	**34,605**	sf	15.00	519,075		
230000		Geothermal equipment, wells, vault and piping (12 wells)	**12**	ea	55,000.00	660,000		
230000		Ductwork, venting	**34,605**	sf	10.00	346,050		
230000		Piping	**34,605**	sf	8.00	276,840		
230000		Insulation	**34,605**	sf	8.00	276,840		
230000		Radiant	**7,000**	sf	25.00	175,000		
230000		Mezzanine work	**8,860**	sf	8.00	70,880		
230000		Controls	**34,605**	sf	5.00	173,025		
230000		Start Up	**200**	hrs	135.00	27,000		
230000		Testing, Adjusting, & Balancing	**200**	hrs	135.00	27,000		
230000		Coordination	**400**	hrs	135.00	54,000		
230000		BIM	**200**	hrs	150.00	30,000		
230000		Crane	**1**	ls	15,000.00	15,000		
230000		Rigging	**200**	hrs	135.00	27,000		
		SUBTOTAL					2,677,710	
		TOTAL - HVAC						***$2,677,710***
	D40	*FIRE PROTECTION*						
	D40	**FIRE PROTECTION**						
210000		FP service equipment, valves, compressors and misc	**1**	ls	18,500.00	18,500		
210000		Wet and dry sprinkler heads	**458**	ea	265.00	121,370		
210000		Branch sprinkler piping with fittings & hangers	**6,870**	lf	30.00	206,100		
210000		Main sprinkler piping with fittings & hangers	**1,500**	lf	50.00	75,000		
210000		Hydraulic calculations, permits and testing	**1**	ls	15,000.00	15,000		
		SUBTOTAL					435,970	
		TOTAL - FIRE PROTECTION						***$435,970***
	D50	*ELECTRICAL*						
	D5010	**LIGHTING, SERVICE AND DISTRIBUTION**						
260000		Power Equipment	**34,605**	sf	8.00	276,840		
260000		Power Circuitry	**34,605**	sf	3.00	103,815		
260000		Lighting	**34,605**	sf	10.00	346,050		
260000		Power devices	**34,605**	sf	6.00	207,630		
260000		Mezzanine power & lighting	**8,860**	sf	10.00	88,600		
		SUBTOTAL					1,022,935	
	D5030	**COMMUNICATION & SECURITY SYSTEMS**						
260000		Telecommunications System - rough-in	**34,605**	sf	2.25	77,861		
260000		BDA Emergency Responder Radio System	**1**	ls	50,000.00	50,000		
260000		Security System allowance	**34,605**	sf	1.00	34,605		
260000		PV system rough-in	**1**	ls	25,000.00	25,000		
260000		Fire Alarm	**34,605**	sf	4.50	155,723		
260000		Mezzanine FA	**8,860**	sf	4.50	39,870		
		SUBTOTAL					383,059	

New Public Works Facility
Town of Acton, Ma — 01-Nov-24

Schematic Design Cost Estimate — GSF 34,605

CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PHASE 1	Fleet storage garage, Maintenance, Wash Bay, Salt Shed addition and Sitework						
	D5035	**SITE LIGHTING AND POWER**						
		Site Lighting						
260000		Assume lighting provide from building wall packs						
		Utilities, Service, Generator Fdrs:						
260000		Utility Pole and connection	**1**	ls	25,000.00	25,000		
260000		Generator	**1**	ls	200,000.00	200,000		
260000		Primary ductbank	**200**	lf	125.00	25,000		
260000		Secondary ductbanks	**130**	lf	160.00	20,800		
260000		Communications conduits	**300**	lf	35.00	10,500		
260000		Pull box	**1**	ea	3,500.00	3,500		
		Misc						
260000		Utility poles and wiring modifications				by utility co		
260000		Misc Site Demo, Removals, make-safe and temp services	**1**	ls	15,000.00	15,000		
		SUBTOTAL					299,800	
	D5040	**OTHER ELECTRICAL SYSTEMS**						
260000		Temp Power and Lighting	**1**	ls	25,000.00	25,000		
		SUBTOTAL					25,000	
		TOTAL - ELECTRICAL						***$1,730,794***
	E20	***FURNISHINGS***						
	E2010	**FIXED FURNISHINGS**						
12211		Horizontal Louver Blinds/Blackout	**80**	sf	15.00	1,200		
		SUBTOTAL					$1,200	
		TOTAL - FURNISHINGS						***$1,200***
	F10	***INDUSTRIAL EQUIPMENT***						
11810		HM-1 Bench Vice	**1**	ea	950.00	950		
11810		MA-1 5 Ton Bridge Crane	**1**	ea	185,000.00	185,000		
11810		MB-1 60,000lb. Inground Lift (Two Post)	**1**	ea	150,000.00	150,000		
11810		MB-2 20,000lb. Two Post Lift	**2**	ea	38,000.00	76,000		
11810		MB-3 12,000lb. Two Post Lift	**2**	ea	25,000.00	50,000		
11810		Fluid distribution system	**1**	ls	125,000.00	125,000		
11810		MC-1 DEF Tote with Pumpout				*ERO*		
11810		MC-2 1,000-Gallon Compartment Tank (New Fluids)	**1**	ea		*inc above*		
11810		MC-3 600-Gallon Compartment Tank (Waste Fluids)	**1**	ea		*inc above*		
11810		MC-4 Fluid Reel Bank	**2**	ea		*inc above*		
11810		MC-5 Wall Mounted Lube Pumps	**8**	ea		*inc above*		
11810		MC-8 Waste Oil Pumpout System	**1**	ea		*inc above*		
11810		MC-9 Waste Oil High Level Alarm	**1**	ea		*inc above*		
11810		MC-11 Waste Antifreeze Pumpout System	**1**	ea		*inc above*		
11810		MC-12 Waste Antifreeze High Level Alarm	**1**	ea		*inc above*		
11810		MC-13 Lube Trolley (Grease)	**1**	ea		*inc above*		
11810		MC-14 Lube Trolley (Grease)	**1**	ea		*inc above*		
11810		MC-15 <varies>	**2**	ea		*inc above*		
11810		MC-16 Oil Filter Drain Box	**1**	ea		*inc above*		
11810		MC-17 5-Gallon Bucket Shelving	**2**	ea		*inc above*		
11810		MC-22 55-Gallon Fluid Drum (WWF)	**1**	ea		*inc above*		
11810		MD-1 Steel Workbench	**5**	ea	1,200.00	6,000		
11810		MD-2 Steel Work Bench w/ Elec. Shelf	**1**	ea	1,500.00	1,500		
11810		MD-3 Heavy Duty Steel Workbench	**2**	ea	1,600.00	3,200		
11810		ME-1 Hydraulic Hose Crimper				*ERO*		
11810		ME-2 Hydraulic Hose Cut Off Machine				*ERO*		
11810		ME-3 Hydraulic Hose Reel Rack	**1**	ea	3,500.00	3,500		

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
PHASE 1	Fleet storage garage, Maintenance, Wash Bay, Salt Shed addition and Sitework						
11810	ME-4 Cubby Storage	**1**	ea	1,500.00	1,500		
11810	MF-1 Welder & Wire Feeder				*ERO*		
11810	MF-2 MIG Welder				*ERO*		
11810	MF-3 Multipurpose Welder	**1**	ea	4,500.00	4,500		
11810	MF-4 Portable Weld Fume Extractor	**1**	ea	7,500.00	7,500		
11810	MG-1 Tire Changer				*ERO*		
11810	MG-2 Tire Balancer				*ERO*		
11810	MG-3 Tire Storage Rack	**2**	ea	1,950.00	3,900		
11810	MG-4 Digital Tire Inflator	**1**	ea	1,450.00	1,450		
11810	MG-5 Tire Inflation Cage	**1**	ea	1,750.00	1,750		
11810	MH-1 Toolbox Red				*ERO*		
11810	MH-2 Toolbox Black (US General)				*ERO*		
11810	MH-3 Toolbox Black (Snap-On)				*ERO*		
11810	MH-4 Toolbox Black Tall (Snap-On)				*ERO*		
11810	MH-5 Hose Cubby Storage				*ERO*		
11810	MH-6 Parts Shelving (6'x2')	**9**	ea	650.00	5,850		
11810	MH-7 Cantilever Rack	**1**	ea	2,500.00	2,500		
11810	MH-8 Bin Storage Cabinet	**1**	ea	1,950.00	1,950		
11810	MH-9 Flammable Cabinet (45 Gallons)	**2**	ea	3,200.00	6,400		
11810	MM-1 Battery Rack				*ERO*		
11810	MM-2 Tool Cart				*ERO*		
11810	MM-3 Parts Washer				*ERO*		
11810	MM-4 Torch Cart				*ERO*		
11810	MM-5 Topside Creeper				*ERO*		
11810	MM-6 Battery Charger				*ERO*		
11810	MM-7 Power Washer				*ERO*		
11810	MM-8 Drill Press	**1**	ea	2,500.00	2,500		
11810	MM-9 Hydraulic Shop Press (50 Ton)	**1**	ea	18,500.00	18,500		
11810	MM-10 Hand Tool Charging Station	**1**	ea	950.00	950		
11810	MM-11 Bench Vice	**1**	ea	950.00	950		
11810	MM-12 Bench Grinder	**1**	ea	1,500.00	1,500		
11810	TM-1 Bench Vice	**1**	ea	950.00	950		
11810	TM-2 Bench Grinder	**1**	ea	1,500.00	1,500		
11810	Manual high pressure wash and undercarriage wash	**1**	ls	220,000.00	220,000		
11810	V-1 Manual Wash Pump Skid	**1**	ea		*inc above*		
11810	V-1A Manual Wash Control Panel	**1**	ea		*inc above*		
11810	V-2 Heat Exchanger	**1**	ea		*inc above*		
11810	V-3 Festoons	**2**	ea		*inc above*		
11810	V-4 Undercarriage Wash Pressure Plant	**1**	ea		*inc above*		
11810	V-4A Undercarriage Wash Control Panel	**1**	ea		*inc above*		
11810	V-5A Undercarriage Wash Toggle Switch	**1**	ea		*inc above*		
11810	V-5B Manual Wash On/Off Switch	**2**	ea		*inc above*		
11810	V-8 Guide Rails	**1**	ea		*inc above*		
11810	V-10 Vehicle Wash Pre-Treatment Tank (1500gal)	**1**	ea		*inc above*		
11810	V-11 Mobile Platform	**1**	ea		*inc above*		
11810	V-12 Vehicle Wash Entry Traffic Light 2	**1**	ea		*inc above*		
11810	V-13 Undercarriage Wash Activation Light 1	**1**	ea		*inc above*		
11810	V-14 Loop Detector	**2**	ea		*inc above*		
11810	V-15 Vehicle Wash Soap Drum	**1**	ea		*inc above*		
11810	Connect and or install ERO equipment	**80**	hrs	150.00	12,000		
	SUBTOTAL					897,300	
	TOTAL - INDUSTRIAL EQUIPMENT						***$897,300***

New Public Works Facility
Town of Acton, Ma

TCi Construction Cost Estimating

01-Nov-24

Schematic Design Cost Estimate

GSF 34,605

CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PHASE 1	Fleet storage garage, Maintenance, Wash Bay, Salt Shed addition and Sitework						
	B	*SITEWORK*						
		Site Demolition						
02050		Shed and containers removals				by owner		
		Site Contractor general conditions						
312000		Field Engineering	**15**	dy	1,500.00	22,500		
312000		Trench Plates Trench Safety	**1**	ls	5,000.00	5,000		
312000		Mobilization	**1**	ea	7,500.00	7,500		
311000		Site fencing, protection, barricades, GRs phasing	**1**	ls	250,000.00	250,000		
		Site prep						
311000		Stabilized Construction Entrance	**1**	ea	7,500.00	7,500		
312500		Compost filter tubes and silt fence	**2,000**	lf	15.00	30,000		
311000		Tree/stump removals	**1.8**	acre	15,000.00	27,000		
311000		Clear and grub	**79,500**	sf	1.00	79,500		
311000		Strip and stockpile topsoil	**2,500**	cy	8.00	20,000		
311000		Misc paving and site improvement removals	**1**	ls	30,000.00	30,000		
		SUBTOTAL					479,000	
		Earthwork						
312000		Site cuts	**12,500**	cy	8.00	100,000		
312000		Site fills	**950**	cy	10.00	9,500		
312000		Export excess - assume clean	**11,550**	cy	35.00	404,250		
312000		Rough and finisg grading	**8**	days	5,000.00	40,000		
		Structural excavation and backfill						
312000		Over excavate foundation footprint	**5,127**	cy	10.00	51,270		
312000		Import structural fill	**1,500**	cy	60.00	90,000		
312000		Import 12" subbase for under slabs	**1,282**	cy	60.00	76,920		
312000		Backfill foundation footing and walls	**1,019**	cy	20.00	20,380		
312000		Backfill foundation column footings	**400**	cy	20.00	8,000		
312000		E&B retaining wall	**600**	cy	50.00	30,000		
		Paving and walks prep						
321216		12" Dense Grade at paving and walks	**1,200**	cy	60.00	72,000		
		SUBTOTAL					902,320	
		Paving and curbing						
321216		5" Asphalt pavement	**21,000**	sf	5.50	115,500		
321216		Temp ramps	**2**	ea	3,500.00	7,000		
321216		Patch at Forest rd	**1**	ea	7,500.00	7,500		
321613		Bitum berm	**280**	lf	25.00	7,000		
		SUBTOTAL					137,000	
		Storm						
334000		CB	**2**	ea	6,500.00	13,000		
334000		DMH	**4**	ea	7,500.00	30,000		
334000		OCS	**1**	ea	9,500.00	9,500		
334000		12" HDPE piping	**300**	lf	110.00	33,000		
334000		18" HDPE piping	**180**	lf	125.00	22,500		
334000		Perimeter building roof drainage piping/boots	**450**	lf	40.00	18,000		
		SUBTOTAL					126,000	

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PHASE 1 Fleet storage garage, Maintenance, Wash Bay, Salt Shed addition and Sitework						
	Water						
331000	FP DI water main	**200**	lf	125.00	25,000		
331000	Dom DI water	**210**	lf	85.00	17,850		
331000	Gates & valves	**6**	ea	1,500.00	9,000		
331000	Hydrants	**1**	ea	6,500.00	6,500		
331000	Water CTE	**2**	ea	5,000.00	10,000		
	SUBTOTAL					68,350	
	Sanitary						
333000	Waste water piping and venting	**60**	lf	110.00	6,600		
333000	Oil water sep	**1**	ea	15,000.00	15,000		
333000	10,000 gal Holding tank	**1**	ea	75,000.00	75,000		
	SUBTOTAL					96,600	
	Site Improvements						
05500	Exterior wash bay catwalk/stair	**1**	ea	20,000.00	20,000		
03300	Footings for exterior wash bay catwalk/stair	**6**	ea	1,500.00	9,000		
323100	Sound wall	**20,400**	sf	30.00	612,000		
321213	Knock down pad	**1,430**	sf	18.00	25,740		
05500	Site bollards	**32**	ea	800.00	25,600		
03300	Transformer Pad	**1**	ea	5,000.00	5,000		
03300	Generator Pad	**1**	ea	8,500.00	8,500		
312000	E&B Elec/communication duct banks	**330**	lf	55.00	18,150		
03300	Encase duct banks in concrete	**98**	cy	350.00	34,300		
	SUBTOTAL					758,290	
	Landscaping						
329000	Mixed evergreen/deciduous trees	**26**	ea	1,500.00	39,000		
329000	Mixed evergreen trees	**20**	ea	1,500.00	30,000		
329000	Screen and spread loam	**700**	cy	15.00	10,500		
329000	Seed	**25,000**	sf	1.00	25,000		
	SUBTOTAL					104,500	
	TOTAL - SITEWORK						***2,672,060***
	C SALT SHED						
	Site Structure						
312000	E&B footings	**9**	ea	650.00	5,850		
03300	Sonotube footings	**9**	ea	950.00	8,550		
06100	Wood columns to match existing	**18**	ea	850.00	15,300		
06100	Wood beams to match	**350**	lf	35.00	12,250		
06100	Wood trusses - 2' o.c.	**56**	ea	1,150.00	64,400		
06100	3/4" plywood	**3,800**	sf	7.50	28,500		
07545	Standing seam metal roofing on ice and water shield	**3,800**	sf	23.00	87,400		
	SUBTOTAL					222,250	
	TOTAL - SALT SHED						***222,250***

CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PHASE 2	Temporary Shop, Admin trailer utilities, Demolition of existing building and Site prep for phase 3						
	F10	***INDUSTRIAL EQUIPMENT***						
		Temporary Shop - Equipment						
11810		CD-1 Steel Workbench	**1**	ea	1,200.00	1,200		
11810		CH-1 Flammable Cabinet (30-Gallons)				*ERO*		
11810		CH-2 Template Storage Rack				*ERO*		
11810		CM-1 Chop Saw (Hitachi)				*ERO*		
11810		CM-2 Edge Planar				*ERO*		
11810		CM-3 Thickness Planar				*ERO*		
11810		CM-4 Standing Band Saw				*ERO*		
11810		CM-5 Table Saw (Powermatic)				*ERO*		
11810		CM-6 Drill Press (Powermatic)				*ERO*		
11810		CM-7 Drill Press (American Forge Foundry)				*ERO*		
11810		CM-8 Portable Dust Collector	**1**	ea	6,500.00	6,500		
11810		Connect and or install ERO equipment	**120**	hrs	150.00	18,000		
		Temporary Shop - Fit-out (Allowance)						
260000		Electrical	**1**	ls	20,000.00	20,000		
230000		HVAC	**1**	ls	15,000.00	15,000		
220000		Plumbing	**1**	ls	10,000.00	10,000		
		SUBTOTAL					70,700	
		TOTAL - INDUSTRIAL EQUIPMENT						***$70,700***
	B	***SITEWORK***						
		Building Demolition						
02050		Demolish existing building	**19,260**	sf	15.00	288,900		
02450		Haz-mat allowance	**1**	ls	100,000.00	100,000		
220000		Demo, cut and cap plumbing	**1**	ls	7,500.00	7,500		
230000		Demo, cut,cap and decommision HVAC	**1**	ls	7,500.00	7,500		
260000		Demo/makesafe electrical	**1**	ls	7,500.00	7,500		
		SUBTOTAL					411,400	
		Site Demo & Prep						
312000		Mobilization	**1**	ea	7,500.00	7,500		
311000		Site fencing, protection, barricades	**1**	ls	15,000.00	15,000		
311000		Stabilized Construction Entrance	**1**	ea	7,500.00	7,500		
312500		Compost filter tubes and silt fence	**1,200**	lf	15.00	18,000		
311000		Sawcut and remove paving & curbing	**80,000**	sf	1.00	80,000		
311000		Remove concrete walks, pads and misc items at building perimeter	**2,500**	sf	5.00	12,500		
311000		Remove drainage structures	**4**	ea	1,500.00	6,000		
311000		Remove drainage piping	**240**	lf	20.00	4,800		
311000		Protect water service through site	**1**	ls	10,000.00	10,000		
		SUBTOTAL					161,300	
		Earthwork						
312000		Excavate, back fill and prep for removed utilities piping and structures	**800**	cy	25.00	20,000		
312000		Allow for rough grade befopre phase 3	**2,000**	cy	15.00	30,000		
		SUBTOTAL					50,000	

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PHASE 2 Temporary Shop, Admin trailer utilities, Demolition of existing building and Site prep for phase 3						
	Storm						
334000	Drainage piping and structures modifications before phase 3	**1**	ls	10,000.00	10,000		
	SUBTOTAL					10,000	
	Gas						
335000	Remove piping, cut and cap	**200**	lf	50.00	10,000		
	SUBTOTAL					10,000	
	Temp Facilities						
323100	Temporary office trailers and connection				with FF&E		
331000	Allow for water pipping and connections	**1**	ea	15,000.00	15,000		
333000	Allow for sewer piping and connections	**1**	ls	15,000.00	15,000		
260000	Allow for electrical service and connections	**1**	ls	15,000.00	15,000		
323100	Removal at end of project	**1**	ls	15,000.00	15,000		
	SUBTOTAL					60,000	
	TOTAL - SITEWORK						***702,700***

CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PHASE 3	Admin/Support, Shops and Sitework						
	GROSS FLOOR AREA CALCULATION							
		Admin/Support areas			**8,200**			
		Shops			**4,079**			
		Mezzanines			**2,100**			
		TOTAL GROSS FLOOR AREA (does not include mezzanines)				**12,279**	*gsf*	
	A10	*FOUNDATIONS*						
	A1010	**STANDARD FOUNDATIONS**						
		Strip footings to walls						
03300		Formwork	**1,040**	sf	18.00	18,720		
03300		Re-bar	**3,660**	lbs	3.00	10,980		
03300		Concrete material	**61**	cy	190.00	11,590		
03300		Placing concrete	**61**	cy	65.00	3,965		
		Foundation walls						
03300		Formwork	**6,240**	sf	18.00	112,320		
03300		Re-bar	**11,830**	lbs	3.00	35,490		
03300		Concrete material	**182**	cy	190.00	34,580		
03300		Placing concrete	**182**	cy	65.00	11,830		
07210		3.5" Polyisocyanurate	**900**	sf	12.00	10,800		
07270		2.5" Polyisocyanurate	**950**	sf	10.00	9,500		
		Back up knee walls						
03300		Formwork	**320**	sf	18.00	5,760		
03300		Re-bar	**260**	lbs	3.00	780		
03300		Concrete material	**4**	cy	195.00	780		
03300		Placing concrete	**4**	cy	65.00	260		
		Column footings						
03300		Formwork	**1,152**	sf	18.00	20,736		
03300		Re-bar	**6,750**	lbs	3.00	20,250		
03300		Concrete material	**90**	cy	190.00	17,100		
03300		Placing concrete	**90**	cy	65.00	5,850		
		Piers						
03300		Formwork	**384**	sf	18.00	6,912		
03300		Re-bar	**525**	lbs	3.00	1,575		
03300		Concrete material	**7**	cy	190.00	1,330		
03300		Placing concrete	**7**	cy	65.00	455		
		SUBTOTAL					341,563	
	A1030	**LOWEST FLOOR CONSTRUCTION**						
		8" Slab on grade						
03300		Vapor barrier	**4,079**	sf	2.50	10,198		
03300		Reinforcing	**4,487**	sf	2.00	8,974		
03300		Concrete - 8" thick	**108**	cy	190.00	20,520		
03300		Placing concrete	**108**	cy	45.00	4,860		
03300		Finishing and curing concrete	**4,079**	sf	1.65	6,730		
03300		Control joints - saw cut	**4,079**	sf	0.50	2,040		
		6" Slab on grade						
03300		Vapor barrier	**8,200**	sf	2.50	20,500		
03300		Reinforcing	**9,430**	sf	2.00	18,860		
03300		Concrete - 6" thick	**159**	cy	190.00	30,210		
03300		Placing concrete	**159**	cy	45.00	7,155		
03300		Finishing and curing concrete	**8,200**	sf	1.65	13,530		
03300		Control joints - saw cut	**8,200**	sf	0.50	4,100		
		Miscellaneous						
03300		4' haunch under CM walls	**100**	lf	45.00	4,500		
03300		Pits, curbs, pads and misc equipment supports	**1**	ls	7,500.00	7,500		
		SUBTOTAL					159,677	
		TOTAL - FOUNDATIONS						***$501,240***

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PHASE 3 Admin/Support, Shops and Sitework						
	B10 SUPERSTRUCTURE						
	B1010 FLOOR CONSTRUCTION						
	Mezzanine Floor Structure - Steel:						
13100	W columns, beam, bracing, HSS tubes, L angles and Channels	**15**	tons	6,500.00	97,500		
	Mezzanine Floor Structure						
13100	Floor deck - 1 1/2'' deck	**2,100**	sf	7.50	15,750		
03300	WWF reinforcement	**2,415**	sf	2.00	4,830		
03300	Concrete to metal deck	**28**	cy	190.00	5,320		
03300	Place and finish concrete	**2,100**	sf	2.50	5,250		
	Miscellaneous						
05500	Misc metals - overall added cost for FSB pricing	**12,279**	sf	6.00	73,674		
07841	Firestopping	**12,279**	sf	0.34	4,175		
	SUBTOTAL					206,499	
	B1020 ROOF CONSTRUCTION						
	Pre-fabricated Structure (includes steel, insulated metal panels walls and roof) :						
13100	Main Building - Prefabricated metal building package (galv steel, insulated metal panels, metal roof with fabric liner insulation/VR, gutters, downspouts and snow guards)	**12,279**	sf	100.00	1,227,900		
	Miscellaneous						
05500	Overhead door openings	**3**	ea	2,000.00	6,000		
05500	Window openings	**1,000**	sf	15.00	15,000		
	SUBTOTAL					1,248,900	
	TOTAL - SUPERSTRUCTURE						***$1,455,399***
	B20 EXTERIOR CLOSURE						
	B2010 EXTERIOR WALLS						
	Admin exterior wall back-up						
09211	6" LGMF, gyp sheathing	**3,640**	sf	20.00	72,800		
09211	5/8" int gwb	**3,640**	sf	8.00	29,120		
09900	Paint	**3,276**	sf	2.00	6,552		
	CMU veneer and siding						
04200	CMU veneer	**1,010**	sf	60.00	60,600		
07270	Air barrier	**1,010**	sf	10.00	10,100		
07210	Rigid insulation	**1,010**	sf	8.00	8,080		
	SUBTOTAL					187,252	
	B2020 WINDOWS						
	Storefront and windows						
84500	Triple glazed windows	**550**	sf	200.00	110,000		
84500	Triple glazed storefront	**450**	sf	200.00	90,000		
08900	Louvers	**1**	ls	5,000.00	5,000		
84555	Sunshades	**125**	lf	550.00	68,750		
07920	Backer rod & double sealant	**500**	lf	15.00	7,500		
07270	Flashings	**500**	lf	16.00	8,000		
06100	Wood blocking at openings	**500**	lf	12.00	6,000		
07920	Waterproofing - overall added cost for FSB pricing	**12,279**	sf	4.00	49,116		
	SUBTOTAL					344,366	

CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PHASE 3	Admin/Support, Shops and Sitework						
	B2030	**EXTERIOR DOORS**						
		Overhead doors						
08331		14x14 OHD	**3**	ea	21,560.00	64,680		
		Man Doors						
08111		Ext 3x7 doors with half lite and transom	**3**	ea	4,800.00	14,400		
84500		Alum entry door with sidelite and transom - triple glazed	**1**	ea	7,500.00	7,500		
84500		Alum entry door at vestibules - triple glazed	**1**	ea	6,500.00	6,500		
08710		Hardware	**5**	lvs	850.00	4,250		
		Misc						
07270		Flashings	**160**	lf	16.00	2,560		
07920		Backer rod & double sealant	**160**	lf	15.00	2,400		
06100		Wood blocking at openings	**160**	lf	12.00	1,920		
		SUBTOTAL					104,210	
		TOTAL - EXTERIOR CLOSURE						***$635,828***
	B30	***ROOFING***						
	B3010	**ROOF COVERINGS**						
		All roofing, gutters, downspouts and snow guards included with Prefabricated metal building						
05500		Secondary entry canopy - structure (framing, decking and turnbuckle)	**1**	ea	5,000.00	5,000		
07540		Secondary entry canopy - membrane roof	**1**	ea	2,500.00	2,500		
07540		Secondary entry canopy - metal panel ceiling, fascia and soffit	**1**	ea	2,500.00	2,500		
		SUBTOTAL					10,000	
	B3020	**ROOF OPENINGS**						
07720		Roof hatch and ladder	**1**	ea	6,750.00	6,750		
07720		Roof ladder	**1**	ea	1,650.00	1,650		
10950		Fall arrest system	**20**	ea	650.00	13,000		
		SUBTOTAL					21,400	
		TOTAL - ROOFING						***$31,400***
	C10	***INTERIOR CONSTRUCTION***						
	C1010	**PARTITIONS**						
09211		Fur-out GWB partition	**2,400**	sf	15.00	36,000		
09211		GWB partitions at mezz	**1,648**	sf	22.00	36,256		
09211		GWB partitions	**12,180**	sf	25.00	304,500		
09211		Plumbing wall	**980**	sf	26.00	25,480		
04200		8" CMU walls	**1,904**	sf	38.00	72,352		
12211		Screen partition and door	**36**	lf	425.00	15,300		
09211		Column wrapps	**13**	ea	500.00	6,500		
		Separation walls - F lower						
03300		Cast in place 8" concrete knee wall	**8**	cy	800.00	6,400		
07210		2" rigid insulation	**120**	sf	7.00	840		
09211		6" metal stud	**120**	sf	22.00	2,640		
09211		5/8" GWB	**120**	sf	7.00	840		
		Separation walls - F upper						
03300		5/8" GWB	**780**	sf	7.00	5,460		
09211		2 rows 6" metal stud	**1,560**	sf	26.00	40,560		
07210		3" closed cell spray foam	**780**	sf	15.00	11,700		
09211		5/8" GWB	**780**	sf	7.00	5,460		
		Misc						
09211		Rough blocking	**1,000**	lf	8.00	8,000		
07841		Safing/firestopping	**1**	ls	10,000.00	10,000		
		SUBTOTAL					588,288	

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
PHASE 3	Admin/Support, Shops and Sitework						
C1020	**INTERIOR DOORS**						
	Doors & Frames						
08111	Interior doors - single	**29**	ea	1,100.00	31,900		
08111	Interior doors - double	**2**	ea	1,950.00	3,900		
08111	Single door with sidelight	**5**	ea	2,200.00	11,000		
84500	Interior sliding service window	**1**	ea	6,500.00	6,500		
84500	Interior vestibule door and storefront	**1**	ls	7,500.00	7,500		
	Hardware						
08710	Hardware	**36**	lvs	650.00	23,400		
	Glazing						
08800	Glazing to doors	**65**	sf	50.00	3,250		
08800	Glazing to frames	**75**	sf	50.00	3,750		
09900	Paint HM frames	**36**	ea	165.00	5,940		
07920	Sealants & caulking	**36**	ea	110.00	3,960		
	SUBTOTAL					101,100	
C1030	**SPECIALTIES / MILLWORK**						
06402	Restroom vanities	**14**	lf	450.00	6,300		
06402	Window sills	**107**	lf	55.00	5,885		
06402	Multipurpose base/wall cabinets, counter and shelving	**20**	lf	600.00	12,000		
06402	Window counters	**32**	lf	300.00	9,600		
06402	Admin alcove base/wall cabinets, counter and shelving	**20**	lf	600.00	12,000		
06402	Workforce alcove base/wall cabinets, counter and shelving	**17**	lf	600.00	10,200		
06402	Admin alcove base/wall cabinets, counter and shelving	**20**	lf	600.00	12,000		
06402	Kitchenette base/wall cabinets, counter and shelving	**19**	lf	600.00	11,400		
06402	Copy/file base/wall, counter and shelving	**18**	lf	550.00	9,900		
06402	Closet poles and shelves	**16**	lf	150.00	2,400		
06402	Reception and service counters	**22**	lf	300.00	6,600		
06402	Wood trim, chair rails and base	**200**	lf	25.00	5,000		
	Lockers						
10850	Lockers	**31**	ea	850.00	26,350		
10850	Lockers benches	**2**	ea	650.00	1,300		
10850	ADA benches	**2**	ea	1,675.00	3,350		
	Restrooms						
10280	Shower curtain and rods	**6**	ea	235.00	1,410		
10650	Toilet partitions HC	**2**	ea	1,500.00	3,000		
10650	Toilet partitions Reg	**3**	ea	1,300.00	3,900		
10650	Toilet partitions urinal screen	**1**	ea	650.00	650		
10280	Soap disp	**7**	ea	30.00	210		
10280	Mirror	**7**	ea	275.00	1,925		
10280	Robe hook	**16**	ea	25.00	400		
10280	Grab bar	**10**	ea	125.00	1,250		
10280	Shower seat and bars	**3**	ea	275.00	825		
10280	Wet gear hooks	**30**	lf	65.00	1,950		
10280	SRWR	**2**	ea	250.00	500		
10280	TTD	**7**	ea	65.00	455		
10280	SND	**2**	ea	150.00	300		
10280	PTD	**4**	ea	285.00	1,140		
10280	Hooks	**12**	ea	50.00	600		
10280	Jan closet MB	**1**	ea	225.00	225		
	Miscellaneous						
06100	Plywood backers, locker bases and misc	**800**	sf	5.00	4,000		
10440	Fire extinguisher cabinets	**4**	ea	300.00	1,200		
10140	Town seal	**1**	ea	1,500.00	1,500		
10140	Cast alum letters - main sign	**1**	ls	2,500.00	2,500		
10140	Cast alum letters - OHDs	**3**	ea	175.00	525		
10140	Cast alum letters - secondary entry	**2**	ea	150.00	300		
10140	Cast alum letters - address	**1**	ls	1,500.00	1,500		
10140	Interior signage	**1**	ls	7,500.00	7,500		
10140	Code signage	**1**	ls	1,500.00	1,500		
	SUBTOTAL					173,550	
	TOTAL - INTERIOR CONSTRUCTION						***$862,938***

CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PHASE 3	Admin/Support, Shops and Sitework						
	C20	***STAIRCASES***						
	C2010	**STAIR CONSTRUCTION**						
05500		Mezzanine Stairs	**2**	ea	18,000.00	36,000		
05500		Mezzanine railings	**45**	lf	175.00	7,875		
05500		Gates	**2**	ea	1,500.00	3,000		
03300		Concrete material in pan infill	**2**	ea	950.00	1,900		
		SUBTOTAL					48,775	
	C2020	**STAIR FINISHES**						
09900		Paint to mezzanine stairs	**2**	ea	3,200.00	6,400		
09900		Paint to mezzanine rails/gates	**45**	lf	30.00	1,350		
		SUBTOTAL					7,750	
		TOTAL - STAIRCASES						***$56,525***
	C30	***INTERIOR FINISHES***						
	C3010	**WALL FINISHES**						
09900		Paint to GWB	**28,440**	sf	1.75	49,770		
09900		Paint to interior CMU	**3,928**	sf	2.50	9,820		
09300		Wall tile at backsplashes and Locker room wet walls	**1,200**	sf	35.00	42,000		
06100		FRP to janitor closet	**200**	sf	12.00	2,400		
		SUBTOTAL					103,990	
	C3020	**FLOOR FINISHES**						
09651		Linoleum at corridors, muster, operations and misc storage rooms	**3,000**	sf	12.00	36,000		
09665		Carpet tile at offices & conf rooms	**2,800**	sf	6.50	18,200		
09730		RF - Resinous Flooring at locker rooms	**1,100**	sf	17.00	18,700		
09900		SC - Sealed Concrete	**7,369**	sf	1.75	12,896		
09665		Walk off mats	**2**	ea	2,500.00	5,000		
09300		Tile at vestibule/lobby	**355**	sf	35.00	12,425		
09300		Tile at single use restrooms	**110**	sf	35.00	3,850		
09651		Rubber base	**1,728**	lf	6.00	10,368		
		SUBTOTAL					117,439	
	C3030	**CEILING FINISHES**						
09510		A1 - ACT ceilings; 2' x 2'	**4,800**	sf	12.00	57,600		
09510		A2 - ACT ceilings; 2' x 2'	**1,200**	sf	14.00	16,800		
09211		G-1 GWB ceilings	**800**	sf	18.00	14,400		
09211		G-2 GWB ceilings	**300**	sf	20.00	6,000		
09211		GWB L, U and drop soffits	**350**	lf	100.00	35,000		
09900		Paint to GWB ceilings and soffits	**2,500**	sf	2.00	5,000		
09900		Exposed prefab metal columns and beams	**7,369**	sf	2.00	14,738		
		SUBTOTAL					149,538	
		TOTAL - INTERIOR FINISHES						***370,967***

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PHASE 3 Admin/Support, Shops and Sitework						
	D20 PLUMBING						
	D20 PLUMBING						
	Equipment						
220000	Recirc Pumps	**1**	ea	1,500.00	1,500		
220000	Expansion Tanks	**1**	ea	600.00	600		
220000	Thermostatic Mixing Valve	**1**	ea	1,350.00	1,350		
220000	Trap Primers	**6**	ea	500.00	3,000		
220000	Plumbing Specialties	**1**	ls	5,000.00	5,000		
220000	Equipment Connections	**10**	ea	550.00	5,500		
	Fixtures						
220000	Water Closets	**7**	ea	2,350.00	16,450		
220000	Lavatory - drop in	**5**	ea	1,450.00	7,250		
220000	Lavatory - wall hung	**2**	ea	2,250.00	4,500		
220000	Urinals	**2**	ea	1,950.00	3,900		
220000	Showers	**3**	ea	2,500.00	7,500		
220000	Shop sink	**3**	ea	1,650.00	4,950		
220000	Sink - Mop	**1**	ea	1,400.00	1,400		
220000	Kitchen sink	**2**	ea	1,500.00	3,000		
220000	Emergency Shower	**1**	ea	4,500.00	4,500		
220000	Drinking Fountain	**1**	ea	4,200.00	4,200		
220000	Bottle filler	**1**	ea	3,250.00	3,250		
220000	Wall Hydrant	**4**	ea	500.00	2,000		
220000	Hose Bibbs	**2**	ea	375.00	750		
220000	Floor Drains	**8**	ea	850.00	6,800		
220000	Trench Drains	**80**	lf	150.00	12,000		
220000	Clean Outs	**12**	ea	250.00	3,000		
220000	Air Stations	**2**	ea	425.00	850		
220000	Hose Reel - Air	**2**	ea	850.00	1,700		
220000	Fixture Connections	**34**	ea	650.00	22,100		
	Piping						
220000	Water	**800**	lf	45.00	36,000		
220000	Waste	**600**	lf	115.00	69,000		
220000	Vent	**600**	lf	95.00	57,000		
220000	Garage Waste	**200**	lf	125.00	25,000		
220000	Garage Vent	**200**	lf	95.00	19,000		
220000	Compressed Air	**300**	lf	45.00	13,500		
220000	Insulation	**800**	lf	12.00	9,600		
	Trade Requirements						
220000	Project Supervision	**200**	hrs	130.00	26,000		
220000	Coordination	**180**	hrs	130.00	23,400		
	SUBTOTAL					405,550	
	TOTAL - PLUMBING						***$405,550***
	D30 HVAC						
	D30 HVAC						
230000	Equipment	**12,279**	sf	15.00	184,185		
230000	Geothermal equipment, wells, vault and piping (28 wells)	**28**	ea	55,000.00	1,540,000		
230000	Ductwork, venting	**12,279**	sf	10.00	122,790		
230000	Piping	**12,279**	sf	8.00	98,232		
230000	Insulation	**12,279**	sf	8.00	98,232		
230000	Controls	**12,279**	sf	10.00	122,790		
230000	Mezzanine work	**2,100**	sf	8.00	16,800		
230000	Start Up	**200**	hrs	135.00	27,000		
230000	Testing, Adjusting, & Balancing	**200**	hrs	135.00	27,000		
230000	Coordination	**400**	hrs	135.00	54,000		
230000	BIM	**200**	hrs	150.00	30,000		
230000	Crane	**1**	ls	15,000.00	15,000		
230000	Rigging	**200**	hrs	135.00	27,000		
	SUBTOTAL					2,363,029	
	TOTAL - HVAC						***$2,363,029***

CSI CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PHASE 3	Admin/Support, Shops and Sitework						
	D40	*FIRE PROTECTION*						
	D40	**FIRE PROTECTION**						
210000		Wet and dry sprinkler heads	**160**	ea	265.00	42,400		
210000		Branch sprinkler piping with fittings & hangers	**2,400**	lf	30.00	72,000		
210000		Main sprinkler piping with fittings & hangers	**800**	lf	50.00	40,000		
		SUBTOTAL					154,400	
		TOTAL - FIRE PROTECTION						*$154,400*
	D50	*ELECTRICAL*						
	D5010	**LIGHTING, SERVICE AND DISTRIBUTION**						
260000		Power Equipment	**12,279**	sf	8.00	98,232		
260000		Power Circuitry	**12,279**	sf	3.00	36,837		
260000		Lighting	**12,279**	sf	10.00	122,790		
260000		Power devices	**12,279**	sf	6.00	73,674		
260000		Mezzanine power & lighting	**2,100**	sf	10.00	21,000		
		SUBTOTAL					352,533	
	D5030	**COMMUNICATION & SECURITY SYSTEMS**						
260000		Telecommunications System - rough-in	**12,279**	sf	2.25	27,628		
260000		Security System - rough-in	**12,279**	sf	1.00	12,279		
260000		PV system rough-in	**1**	ls	15,000.00	15,000		
260000		Fire Alarm	**12,279**	sf	4.50	55,256		
260000		Mezzanines and open canopy lighting and FA	**2,100**	sf	4.50	9,450		
		SUBTOTAL					119,613	
	D5035	**SITE LIGHTING AND POWER**						
		Site Light Fixtures						
260000		Light poles	**6**	ea	4,000.00	24,000		
260000		Site Lighting Controls	**1**	ls	5,000.00	5,000		
260000		1" PVC, 4#10 UG	**1,200**	lf	8.25	9,900		
		Utilities, Service, Generator Fdrs:						
260000		Completed in phase 1						
260000		Charging stations, counduits, wiring and pads	**8**	ea	7,500.00	60,000		
		Telecommunications System						
260000		Completed in phase 1						
		Misc						
260000		Misc Site Demo, Removals, make-safe and temp services	**1**	ls	10,000.00	10,000		
		SUBTOTAL					108,900	
	D5040	**OTHER ELECTRICAL SYSTEMS**						
260000		Temp Power and Lighting	**1**	ls	15,000.00	15,000		
		SUBTOTAL					15,000	
		TOTAL - ELECTRICAL						*$596,046*
	E20	*FURNISHINGS*						
	E2010	**FIXED FURNISHINGS**						
12211		Horizontal Louver Blinds/Blackout	**550**	sf	15.00	8,250		
12211		Interior window and door blinds	**1**	ls	7,500.00	7,500		
11310		Kitchen appliances	**2**	ea	9,500.00	19,000		
		SUBTOTAL					34,750	
		TOTAL - FURNISHINGS						*$34,750*

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PHASE 3 Admin/Support, Shops and Sitework						
	F10 INDUSTRIAL EQUIPMENT						
	PH3 - HIGHWAY WORKSHOP						
11810	HA-1 2-Ton Monorail	**1**	ea	28,500.00	28,500		
11810	HD-1 Steel Workbench	**2**	ea	1,200.00	2,400		
11810	HH-1 Flammable Cabinet (60 Gallons)				*ERO*		
11810	HH-2 Hanging Tool Storage Rack	**2**	ea	2,500.00	5,000		
11810	HH-3 Bin Storage Cabinet	**1**	ea	1,950.00	1,950		
11810	HH-4 Parts Shelving (6' x 2')	**7**	ea	650.00	4,550		
11810	Connect and or install ERO equipment	**4**	hrs	150.00	600		
	PH3 - CARPENTRY WORKSHOP						
11810	CA-1 2-Ton Monorail	**1**	ea	28,500.00	28,500		
11810	CD-1 Steel Workbench	**2**	ea	1,200.00	2,400		
11810	CH-1 Flammable Cabinet (30-Gallons)				*ERO*		
11810	CH-2 Template Storage Rack				*ERO*		
11810	CH-3 Bin Storage Cabinet	**1**	ea	1,950.00	1,950		
11810	CM-1 Chop Saw (Hitachi)				*ERO*		
11810	CM-2 Edge Planar				*ERO*		
11810	CM-3 Thickness Planar				*ERO*		
11810	CM-4 Standing Band Saw				*ERO*		
11810	CM-5 Table Saw (Powermatic)				*ERO*		
11810	CM-6 Drill Press (Powermatic)				*ERO*		
11810	CM-7 Drill Press (American Forge Foundry)				*ERO*		
11810	CM-8 Portable Dust Collector	**1**	ea	5,000.00	5,000		
11810	Connect and or install ERO equipment	**20**	hrs	150.00	3,000		
	PH3 - TREES & GROUNDS WORKSHOP						
11810	TA-1 2-Ton Monorail	**1**	ea	28,500.00	28,500		
11810	TD-1 Steel Workbench	**2**	ea	1,200.00	2,400		
11810	TH-1 Metal Locking Cabinet				*ERO*		
11810	TH-2 Brown Tool Drawer				*ERO*		
11810	TH-3 Hanging Tool Storage Rack	**2**	ea	2,500.00	5,000		
11810	TH-4 Bin Storage Cabinet	**1**	ea	1,950.00	1,950		
11810	TH-5 Parts Shelving (6' x 2')	**8**	ea	650.00	5,200		
11810	TM-1 Bench Vice	**1**	ea	950.00	950		
11810	TM-2 Bench Grinder	**1**	ea	1,500.00	1,500		
11810	TM-3 Town Toolbox (New)	**1**	ea	2,500.00	2,500		
11810	Connect and or install ERO equipment	**16**	hrs	150.00	2,400		
	SUBTOTAL					134,250	
	TOTAL - INDUSTRIAL EQUIPMENT						***$134,250***
	B SITEWORK						
	Site Contractor general conditions						
312000	Field Engineering	**6**	dy	1,500.00	9,000		
312000	Trench Plates Trench Safety	**1**	ls	5,000.00	5,000		
312000	Mobilization	**2**	ea	7,500.00	15,000		
311000	Site fencing, protection, barricades	**1**	ls	15,000.00	15,000		
	Site prep						
311000	Stabilized Construction Entrance	**1**	ea	7,500.00	7,500		
312500	Compost filter tubes and silt fence	**1,200**	lf	15.00	18,000		
	SUBTOTAL					69,500	

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PHASE 3 Admin/Support, Shops and Sitework						
	Earthwork						
312000	E&B to support Geo-thermal and utility work	**2,500**	cy	12.00	30,000		
312000	Over excavate foundation footprint	**1,500**	cy	10.00	15,000		
312000	Import structural fill for under perimeter and column footings	**160**	cy	60.00	9,600		
312000	Import 12" subbase for under slabs	**448**	cy	60.00	26,880		
312000	Backfill foundation footing and walls	**600**	cy	20.00	12,000		
312000	Backfill foundation column footings	**300**	cy	20.00	6,000		
	Paving and walks prep						
321216	12" Dense Grade at paving and walks	**2,728**	cy	60.00	163,680		
	SUBTOTAL					263,160	
	Paving and curbing						
321216	5" Asphalt pavement	**72,200**	sf	5.50	397,100		
321613	Bitum berm	**530**	lf	25.00	13,250		
321613	Granite curbs	**864**	lf	65.00	56,160		
	SUBTOTAL					466,510	
	Storm						
334000	CB	**11**	ea	6,500.00	71,500		
334000	DMH	**4**	ea	7,500.00	30,000		
334000	OCS	**1**	ea	9,500.00	9,500		
334000	WQS	**2**	ea	15,000.00	30,000		
334000	12" HDPE piping	**550**	lf	110.00	60,500		
334000	18" HDPE piping	**120**	lf	125.00	15,000		
334000	24" HDPE piping	**210**	lf	145.00	30,450		
334000	Perimeter building roof drainage piping/boots	**300**	lf	40.00	12,000		
334000	Stormtech MC-4500 Storm water infiltration system (E,B, prep and manifolds)	**192**	ch	2,200.00	422,400		
	SUBTOTAL					681,350	
	Sanitary						
333000	4,000 gal tank	**1**	ea	25,000.00	25,000		
333000	Piping	**160**	lf	80.00	12,800		
333000	D box	**1**	ea	2,500.00	2,500		
333000	Leaching trenches	**6**	ea	20,000.00	120,000		
	SUBTOTAL					160,300	
	Site Improvements						
13100	42' x 12' - Covered material storage bins (DPW) - Galv framing and metal roofing	**2**	ea	35,000.00	70,000		
13100	28' x 12' - Covered material storage bins (Public) - Galv framing and metal roofing	**1**	ea	25,000.00	25,000		
323100	Storage bin block walls 5' ht (DPW & Public)	**1,520**	sf	60.00	91,200		
323100	Security arm gate and access key pad	**1**	ea	15,000.00	15,000		
323100	Parking signs	**12**	ea	250.00	3,000		
05500	Site bollards	**16**	ea	800.00	12,800		
321213	Concrete walks	**1,450**	sf	14.00	20,300		
323100	Parking space lines, symbols and hatching	**40**	ea	250.00	10,000		
	SUBTOTAL					247,300	
	Landscaping						
329000	Landscaping allowance	**1**	ls	75,000.00	75,000		
	SUBTOTAL					75,000	
	TOTAL - SITEWORK						***1,963,120***

DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
ALTERNATE 1						
1. Add 10,000 gallon rainwater catchment system for wash bay						
Tank support on mezzanine	**1**	ls	25,000.00	25,000		
10,000 gal tank	**1**	ea	50,000.00	50,000		
Piping and equipment	**1**	ls	20,000.00	20,000		
SUBTOTAL					95,000	
TOTAL						***$95,000***
SUBTOTAL						***$95,000***
	GENERAL CONDITIONS & REQUIREMENTS			11%		$10,450
	GL INSURANCE			1.5%		$1,425
	BONDS			1.8%		$1,710
	GC - OVERHEAD & PROFIT			3.5%		$3,325
	DESIGN AND PRICING CONTINGENCY			10%		$11,191
	1 YEAR ESCALATION TO 4TH QUARTER 2025 BID OPENING			6%		$7,386
TOTAL - ALTERNATE 1						***$130,487***