



Publication 127

June 2019

Component-in-Place Schedules

About this publication

Pub-127, Component-in-Place Schedules, is issued according to Section 8-5 of the Property Tax Code which states, "The Department shall confer with, advise and assist local assessment officers relative to the performance of their duties."

The cost schedules in this publication have been developed to help assessors estimate the replacement cost of commercial and industrial improvements. These components can be used in conjunction with structures valued using the Publication 126, Commercial and Industrial Cost Schedules. The assessor's professional judgement still greatly affects the outcome of this system.

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The information in this publication is current as of the date of the publication. The contents of this publication are informational only and do not take the place of statutes, rules, or court decisions. For many topics covered in this publication, we have provided a reference to the Illinois Property Tax Code for further clarification or more detail at 35 ILCS 200/1 *et seq.*

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Other Publications for Assessors:

- Publication 122** Instructions for Farmland and Farm Building Schedules
- Publication 123** Instructions for Residential Schedules
- Publication 124** Construction Terms
- Publication 126** Commercial and Industrial Cost Schedules

Publication 127

January 2019

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Changes from previous editions:

Commercial and Industrial Structures are now valued by first selecting the appropriate structural shell and then selecting the current interior finish according to use and adding the two values together as described in Publication 126. The use of the structure is considered secondary to the structure type itself. There are 8 standard structural shell types and 39 typical interior finish schedules. There are dozens of specialty use interior finishes as well. Components can be added to and subtracted from the “typical” finish as needed. Structures of over 200,000 square feet can still be valued using the CIP schedules.

Features can be indexed both alphabetically and by schedule number.

The instructions and schedules for the valuation of Grain Elevators have been moved to the back of Publication 126.

Acronyms used in this publication

CF	Cubic Foot
CIP	Component-in-Place
FPM	Floors per Minute
GPD	Gallons per Day
GPM	Gallons per Minute
LB	Load Bearing
LF	Linear Foot
oc	On-center
SFCA	Square Foot Ceiling Area
SFDA	Square Foot Door Area
SFFA	Square Foot Floor or Square Foot Frame Area
SFGA	Square Foot Ground Area
SFRA	Square Foot Roof Area
SFSA	Square Foot Surface Area
SFWA	Square Foot Wall Area
VLF	Vertical Linear Foot

Note: For definitions of common construction terms used in this Publication, see Publication 124, Construction Terminology.

Component-in-Place Schedules

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1 Earthwork	
Demolition (per CF of building)	\$0.90
Site preparation (per SFGA)	\$0.45
Excavation (per CF earth removed)	\$0.54
Fill, compacted (per CF of fill)	\$0.41

2 Foundation Walls (including footings)		
Concrete*		
Rating	Supported Area above foundation	Per LF
Light	Up to 2 stories	\$109.36
Medium	3-6 stories	\$140.60
Heavy	7-10 stories	\$164.15
X-Heavy	Institutional	\$192.41
Concrete block*		
Medium	1 story	\$96.71
Heavy	Over 1 story	\$133.99
Strip footings only 12" deep-without foundation walls		
Width	Per LF Reinforced	
24"	\$36.61	
32"	\$48.69	
40"	\$61.14	
48"	\$73.23	
* Prices based on 4' wall height (includes asphalt damp proofing)		

3 Basement Walls (including footings)			
Wall Construction	Thickness	Height	Per LF
Reinforced Concrete	8"	8'	\$207.73
		9'	\$259.90
		10'	\$296.79
		12'	\$389.37
	12"	8'	\$248.53
		9'	\$317.46
		10'	\$345.94
		12'	\$458.79
		14'	\$587.31
		16'	\$587.31
Concrete Block	8"	8'	\$185.49
		9'	\$204.10
		10'	\$234.79
		12'	\$272.01
	12"	8'	\$223.09
		9'	\$257.34
		10'	\$279.14
		12'	\$334.83
		14'	\$378.43
		16'	\$483.93
		18'	\$483.93
		20'	\$483.93
Brick (solid)	8"	8'	\$352.29
		9'	\$391.75
		10'	\$443.29
		12'	\$522.21
	12"	8'	\$497.41
		9'	\$565.95
		10'	\$622.04
		12'	\$746.31
		14'	\$858.49
		16'	\$858.49
	16"	8'	\$646.82
		9'	\$720.03
		10'	\$805.33
		12'	\$951.75
		14'	\$951.75
		16'	\$1,103.08

4 Piling (Cost per LF of Piling)						
Diameter or Size	Wood Untreated	Wood Creosote	Pre-Cast Concrete	Concrete in Steel Pipe	Concrete in Drilled Hole	Steel H-column
8"				\$27.74		\$26.05
10"	\$17.89	\$23.03	\$29.53	\$31.85		\$32.44
12"	\$21.44	\$27.30	\$35.15	\$39.60	\$53.04	\$45.30
14"	\$25.04	\$32.43	\$41.64			\$60.29
16"	\$29.72	\$38.59	\$56.00	\$50.16	\$63.95	
18"			\$66.86	\$56.30		
24"			\$96.24	\$78.75	\$116.53	
36"					\$225.06	
48"					\$349.58	
Average Setup Cost	\$20,000	\$20,000	\$40,250	\$31,250	\$18,750	\$31,250
Example:						
104 pilings, 10" x 35' H-column piles (104 x 35' x \$32.44) =						\$118,082
Plus average setup costs						\$31,250
Total cost of pilings						\$149,332

5 Structural Framing (Cost per SFFA)				
Structural framing costs are provided below by correlation of an approximate frame bay area and the framing construction type. The derived costs are to be applied to all areas of a building that are structurally framed. Cost does not include truss or roof structure. Base prices are for 14' story height, add or deduct 5% for each foot of column height variation. This adjustment is to be made before entering the price in the computation ladder.				
Construction Material	Frame Bay Area			
	Through 400 SF	401 SF to 1,200 SF	1,201 SF to 2,000 SF	Over 2,000 SF
Wood Post and Beam	\$3.57	\$4.54	\$5.72	\$7.22
Ordinary Steel	\$7.43	\$9.57	\$12.30	\$15.82
Fireproof Steel	\$20.75	\$24.49	\$28.91	\$34.01
Steel inside Concrete Column & Beam	\$30.52	\$35.53	\$41.45	\$45.55
L/B Interior Supports	\$2.45	\$2.89	\$3.42	\$4.02

6 Roof Construction				
Structures and Decks				
Structure	Deck			Per SFRA
Wood Structure	Wood			\$3.40
	Corrugated or Ribbed Metal			\$5.66
Steel Structure	Wood			\$4.73
	Corrugated or Ribbed Metal			\$6.91
	Steel Cellular			\$14.25
	Gypsum Plank			\$8.95
	Formed Concrete			\$18.40
	Pre-cast Concrete			\$15.80
	Poured Concrete or Gypsum on Steel Deck			\$13.41
Concrete Structure	Formed Concrete			\$12.70
	Pre-cast Concrete Joist & Deck			\$15.10
For monitor or sawtooth roof add 40% to above costs				
Trusses (cost each truss)				
Span	Steel		Wood	
	Light*	Heavy*	Light*	Heavy*
20'			\$610	\$820
30'	\$3,160	\$4,820		
40'	\$4,220	\$6,420	\$1,510	\$3,010
60'	\$6,330	\$9,640	\$3,380	\$4,510
80'	\$8,440	\$12,850	\$4,510	\$6,010
100'	\$10,550	\$16,060	\$7,530	\$10,040
120'	\$12,660	\$19,270	\$9,040	\$12,050
140'		\$22,480	\$10,540	\$14,060
160'		\$25,700		
*Light trusses are those carrying roof loads only.				
Heavy trusses are those carrying additional load of hoists or cranes. The above trusses are for heavy industrial use buildings. When computing a lighter industrial or commercial use building that has wood truss roof construction use the table below.				
Wood			Per SFFA	
Light Duty			\$4.26	
Heavy Duty			\$6.28	

7 Roof Cover					
Type		Per SF	Type		Per SF
Aluminum Shingles		\$4.74	Fiberglass-Corrugated/Steel	\$2.56	
Corrugated or Ribbed			Lead	\$13.75	
Asbestos Cement (Transite)		\$4.50	Roll Comp	\$1.05	
Corrugated			Slate	\$13.33	
Shingles		\$4.28	Steel		
Built-up Composition		\$2.19	Galvanized, Corrugated or		
with Gravel Surfacing		\$2.56	Ribbed	\$5.33	
			Porcelain Enamel	\$3.13	
Clay Tile		\$8.18	Synthetic Rubber Membrane	\$2.91	
Composition Shingles		\$3.16	Wood		
Concrete Tile		\$4.91	Shingles	\$6.56	
Copper-flat or Standing Seam		\$24.16	Shakes	\$7.39	

8 Roof Insulation (per SF Insulation)	
Insulation Type	Per SFIA
Batts or Roll Insulation	\$1.43
Rigid Insulation Board	\$2.48
Sprayed Foam on Deck 1"	\$2.50
2"	\$4.38
Gutter and Downspouts	Per LF
Aluminum Gutters	\$4.55
Copper Gutters	\$14.44
Galvanized Gutters	\$5.24
Vinyl Gutters	\$3.13
Aluminum Downspouts	\$4.56
Copper Downspouts	\$16.61
Galvanized Downspouts	\$5.06

9 Exterior Wall Coverings				
This schedule starts with the wood or metal studs to which the cost of sheathing, insulation, etc., must be added. For build-up of the interior of the wall, see the interior wall finishes schedule to complete the wall cost.				
Framing		Per SFWA	Framing	Per SFWA
Wood Studs			Masonry Veneers	
2 x 4	12" oc	\$2.60	Face Brick Common	\$15.64
	16"	\$2.20	Used Brick	\$15.00
	24"	\$1.55	Cast Stone, Ornamental	\$28.35
2 x 6	12" oc	\$3.92	Ashlar Stone	\$30.50
	16"	\$2.97	Granite	\$41.25
	24"	\$2.42	Limestone	\$45.25
4 x 4	24" oc	\$3.93	Marble	\$63.38
	36"	\$2.97	Slate	\$40.80
	48"	\$2.62	Stucco	
Steel Studs			On Wire Mesh	\$6.49
2 x 4	16" oc	\$2.44	On Metal Lath	\$7.24
2 x 6	16" oc	\$2.96	On Masonry	\$5.75
Sheathing			Wood	
OSB Composition		\$1.08	Shakes, Shingles	\$6.99
Fiberboard		\$1.50	Plywood Panels	\$3.06
Gypsum Board		\$0.94	Board and Batten	\$3.44
Plywood		\$1.79	Concrete Block	
Wood Boards		\$3.49	Screen	\$11.46
Insulation			Split-face	\$10.54
Aluminum Siding, Corrugated		\$0.78	Ceramic Tile	\$13.29
Batts or Roll		\$1.06	Terra Cotta	\$30.30
Polystyrene		\$1.63	Structural Glass (Vitrolite)	\$24.50
Loose Fill in Stud Walls		\$1.24	Glass Block	\$45.63
Exterior Facing			Additions for Furring	
Aluminum Siding, Corrugated		\$5.46	Wood	\$1.41
Enameled		\$6.05	Masonry	\$1.69
Transite		\$5.45	Paint	
Metal Sandwich Panels		\$12.13	On Masonry	\$1.23
Fiberglass		\$2.33	On Stucco	\$1.35
Galvanized Steel, Corrugated		\$3.75	On Wood	\$1.28
Flat Enameled Steel		\$4.88		
Hardboard, Masonite		\$3.96		

10 Exterior Wall Construction		
<p>Normally, wall costs are priced for the total wall area when openings for doors, windows, etc. are only a small percentage of the total. The price of doors, windows, etc. is then added. When the openings represent over 20% of the total wall area, they should be deducted from the wall area before pricing the wall. For walls over 25 feet in height, add 1% for each foot.</p>		
Masonry Walls (Load-Bearing)		Per SFWA
Concrete Block	6"	\$12.26
	8"	\$14.84
	12"	\$20.58
Brick, Common	8"	\$42.00
	12"	\$62.88
	16"	\$84.00
Brick, Block Backup	8"	\$30.84
	12"	\$34.67
Clay Tile	6"	\$11.40
	10"	\$15.04
Concrete (Formed)	6"	\$21.50
	8"	\$23.20
	12"	\$26.55
Added for Pilasters		\$1.25
Concrete Precast Panels	4"	\$19.31
	6"	\$23.34
	8"	\$24.63
	12"	\$29.88
Wood or Steel Framed Load-bearing Walls		
Wall Cost includes Studs		Per SFWA
Aluminum Siding		\$8.47
Wood Shingles		\$10.00
Wood Siding		\$8.57
Cement Fiber Asbestos Siding		\$7.74
Brick Veneer		\$18.65
Stone Veneer		\$37.00
Stucco		\$10.25
Add for Sheathing		\$1.08
Add for Insulation		\$1.06

11 Curtain (non-bearing) Walls		
Curtain walls (or panel walls) are exterior walls that enclose a building but do not support upper floors or roof construction. The price given is for the curtain wall only and includes no costs for structural framing that should be priced from the appropriate framing schedule.		
Type		Per SFWA
Concrete tilt-up	4"	\$18.50
	6"	\$21.34
	8"	\$22.88
	10"	\$25.50
Brick, Block Backup	8"	\$29.54
	12"	\$32.66
Brick, Solid Common	8"	\$39.50
	12"	\$58.75
Add for Face Brick		\$3.50
Concrete Block	6"	\$11.55
	8"	\$14.30
Add for Interior Core Insulation		\$0.95
Concrete (Formed)	6"	\$18.50
	8"	\$19.40
	12"	\$23.20
Clay Tile	6"	\$11.10
	10"	\$14.15
Concrete and Glass Panels		\$31.50
Metal and Glass Panels		\$35.40
Stainless Steel and Glass		\$56.25
Marble or Stone Panels		\$57.50
Glass Block		\$45.65

12 Doors (Industrial)	
Type	Per SFDA
Steel Roll-up	\$25.96
Fiberglass Overhead	\$26.50
Wood Panel Overhead	\$19.40
Steel Roll-up	
Rolling	\$28.50
Overhead	\$17.75
Vertical Lift Electric	\$124.00
Add for Electric Operation	
Roll-up Door	\$14.50
Overhead	\$13.40
Rolling	\$15.10
Walk-In	Per SFDA
Metal Clad	
Ind. Swinging Single Leaf	\$72.27
Ind. Swinging Double Leaf	\$66.50
Office Swinging Single Leaf	\$43.50
Fire Doors	Per SFDA
Rolling	\$49.25
Swinging	\$55.40
Add for Electric Operation, each	\$1,950.00

13 Windows	
Type Frame	Per SF Window Area
Steel Sash, Fixed Industrial	\$21.38
Vented, Industrial	\$26.38
Aluminum Sash, Awning	\$23.98
Casement	\$20.75
Sliding	\$16.65
Jalousie	\$23.20
Add for	
1/4" Wire Glass	\$14.60
1/4" Plate Glass	\$4.20
Double Glazed	\$6.70
Solar Glass	\$17.50

14 Store Fronts	
Type	*Per SF Display Area
Wood Framed Glass & Trim with	
Wood Siding	\$31.50
Brick	\$41.50
Ceramic	\$37.50
Marble or Granite	\$81.50
Steel Framed Glass & Aluminum Trim with	
Brick	\$51.75
Ceramic	\$47.75
Marble or Granite	\$92.50
Steel Framed Glass & Stainless Steel or Bronze Trim with	
Brick	\$74.50
Ceramic	\$68.75
Marble or Granite	\$112.50
*In calculating the total display area, include surface area of all glass, sign, and bulkhead areas; including entrance way, islands, etc.	
Additions to Basic Store Fronts	
Display Platforms (Per SF)	\$9.80
Display Ceiling (Per SF)	\$4.50
Display Back (Per SF)	\$7.80
Entrance Doors	
Revolving Door, each	\$42,000.00
Hinged Aluminum & Glass, Each	\$1,800.00
Hinged Bronze or Stainless, Each	\$3,700.00
Add for Automatic Door Opener (per door)	\$6,200.00
Sliding Automatic Glass & Stainless Steel	\$17,500.00
Security Gates (Per SF of Gate Area)	
Scissor type Folding Gate Painted Steel	\$22.25
14 Roll-up Grille, Alum Manual, Each	\$39.50
Add for Motorized Operation, Each	\$1,780.00
Signs (Marquees) Per SF	
Plain, Steel Framed	\$36.00
Ornamental, Steel Framed	\$45.00
Plain, Wood Framed	\$31.50
Wood or Stucco, Wood Framed	\$26.30
Illuminated Plastic, Single Face	\$95.00

15 Cash Handling and Security	
Pneumatic tube system, 2-station	\$39,940
Night Depository	\$14,725
Closed circuit TV, one station camera and monitor	\$2,340
Additional camera stations	\$1,270
Bulletproof teller window (4' x 5')	\$6,745

16 Interior Partitions		
Construction Type		Per SFWA
Wood Stud Wall Frame		
2 x 4	12" oc	\$2.19
	16"	\$1.72
	24"	\$1.25
2 x 6	12" oc	\$3.19
	16"	\$2.41
	24"	\$1.82
Steel Stud Wall Frame		
2 x 4	16" oc	\$1.69
2 x 6	16" oc	\$2.16
Concrete Block	4"	\$6.69
	6"	\$7.82
	8"	\$9.31
	10"	\$10.91
	12"	\$12.50
Clay Tile	4"	\$10.00
	6"	\$11.40
	8"	\$13.22
	10"	\$15.04
	12"	\$18.05

17 Cubicle Partitions	
These are trackless, moveable shop partitions. The panels are semi-acoustical and at least 1 5/8" thick.	
Construction Type	Per SFWA
Enameled Panels, Flush	\$24.50
Vinyl Covered, Flush	\$22.00
Wood and Composition	\$17.50
For Less than 8' Wall Height	Deduct 10%

18 Accordion or Folding Partitions	
Type	Per SF
Wood-Low Acoustical	\$37.50
Wood-Acoustical, Vinyl Faced	\$70.00
Formica or Hardwood Finish	\$49.00

19 Floors		
Basement & Grade Slabs		Per SFFA
Concrete, including Prepared Base, Reinforced	4"	\$5.13
	6"	\$6.18
	8"	\$7.23
Asphalt, including prepared base	2"	\$4.44
Structural Floors (Above Grade)		Per SFFA
Steel Joints, Corrugated Deck & Concrete		\$12.34
Cellular Deck & Concrete		\$13.50
Concrete Slab		\$14.60
Precast Plank		\$13.50
Steel Grating		\$11.04
Wood Deck		\$5.48
Precast Concrete Joists & Slab		\$10.65
Elevated Concrete Slab		\$12.25
Wood Joist & Deck		\$7.76
Pan or Waffle (Formed Concrete)		\$13.30
Add for Insulation		\$1.06
Add for Fire Proofing		\$2.21

20 Office Enclosures (Per SF)		
Grade	Finished Divided Per SFFA*	Finished Open Per SFFA**
Economy	\$43.77	\$34.14
Average	\$53.38	\$41.64
Good	\$64.06	\$49.97
Excellent	\$80.07	\$64.45

Note: over 2,500 SF build from CIP

* Finished divided costs include suspended ceiling with grid, average lighting and electrical service, wood framed perimeter and partitions with painted drywall, office doors, and average carpet.

**Except for partitions, finished open costs include the same items as finished divided costs.

21 Pre-Fabricated Shop Offices	
Pre-fabricated aluminum framed booths including doors, floors, lighting, HVAC, etc.	
Approx. Office Size	Per SFFA
50 SF	\$124.00
80 SF	\$109.00
100 SF	\$96.00

22 Exterior Stand-Alone Island Booths or Offices	
Average quality steel building 8" height, no plumbing, minimum electrical for lighting only	
Area	Cost per SF
50 SF	\$332.64
75 SF	\$261.06
100 SF	\$222.00
125 SF	\$192.60

23 Woven Wire Partitions (Each)	
Wall Panels - 4' wide	\$205.00
Ceiling Panels	\$270.00
Sliding Door - 3' wide x 7' high	\$619.00
Sliding Door - 6' wide x 7' high	\$890.00

24 Toilet Partitions	
Each	
Marble	\$1,568.00
Painted Metal	\$760.00
Plastic Laminate	\$890.00
Stainless Steel	\$1,654.00
Handicap Additions	\$350.00
Urinal Screens	
Marble	\$550.00
Painted Metal	\$300.00
Stainless Steel	\$425.00
Plastic Laminate	\$200.00

25 Stairs with Railing (per Tread)	
Concrete, Reinforced on ground	\$220.00
on Steel Frame	\$350.00
Steel Grate with Steel Frame	\$280.00
Wood	\$167.00
Spiral, Ornamental Cast Iron	\$340.00
Industrial Steel	\$410.00
For Stair Landings	
Concrete Free Standing	\$24.50/SF
On Ground	\$12.20/SF

26 Mezzanines (Cost Per SFFA)		
Mezzanine costs include the framing support system, the floor system, stairways, and lighting. Where applicable, typical partitioning, floor, wall, and ceiling finishes are also included. A height adjustment is not applicable to the mezzanine cost. Mezzanines created by a structural floor over interior partitions should be priced by using appropriate CIP schedules for each construction and/or finish component.		
Mezzanine Finish	Construction	
	Steel Framed	Concrete Framed
Unfinished	\$34.75	\$32.01
Store, Display (finished open)	\$66.39	\$73.65
Office (finished divided)	\$78.13	\$85.39
For wood framed mezzanines use 65% of the steel costs.		

27 Interior Wall Finishes		
Construction Type		Per SFWA
Drywall, taped & sanded, 1 side		\$1.28
Plaster	on Masonry	\$4.78
	on and including Lath	\$5.23
Paint	on Masonry	\$1.25
	on Plaster, Drywall, Wood	\$1.00
Ceramic Tile		\$13.39
Wood Paneling	Birch Plywood	\$2.59
	Oak or Cherry	\$3.68
	Walnut, Chestnut, Rosewood	\$5.53
Wallpaper	Average	\$1.48
	Good	\$1.93
	Excellent	\$2.73
Specialties	Acrylic Glazed Coatings	\$1.60
	Epoxy Coatings	\$2.50
	Vinyl Sheet Plastic	\$1.75
	Copper Sheet	\$17.76
	Cork Tile or Sheet	\$4.14
	Marble Veneer - up to 3/4"	\$44.13
	Granite Veneer - up to 1 1/4"	\$41.25
Limestone Veneer - up to 2"	\$45.25	
Furring	on Wood	\$1.08
	on Block or Brick	\$1.69

28 Ceilings	
Construction Type	Per SFCA
Acoustical Tile	
Aluminum, Perforated	\$6.50
Mineral Fiber	\$2.53
Drywall Finished, Taped, & Painted w/textured spray	\$3.94
Plaster on Lath	
Plain	\$6.70
Acoustical	\$7.50
Plywood Panel	
Softwood	\$2.59
Hardwood	\$3.68
Luminous Plastic Panel with Suspension System	\$1.54
Add for	
Furring	\$2.63
Insulation	\$1.43
Suspension System	\$2.39

29 Cabinets and Counters	
Type	Per LF
Base with Doors (w/o Counter Top)	
Hardwood	\$231.50
Enameled Steel	\$220.00
Painted Wood	\$179.00
Add for Drawer Unit	\$0.20
Wall	
Hardwood	\$124.50
Enameled Steel	\$121.00
Painted Wood	\$110.00
Tall Lab Storage Cabinets	\$275.00
Counter Tops	
Plastic	\$65.55
Ceramic	\$57.34
Stone	\$153.15
Stainless Steel	\$126.50

30 Floor Finish					
Type		Per SFFA	Type		Per SFFA
Carpet			Brick, Stone & Tile		
Economy Grade		\$4.13	Brick, Common in Mortar		\$11.61
Good Grade		\$5.85	Industrial Acid-Proof		\$22.50
Excellent Grade		\$8.11	Ceramic or Quarry Tile		\$13.39
Add for Pad		\$1.20	Marble		\$43.38
Composition			Terrazzo		\$15.99
Epoxy, Troweled		\$13.50	Slate		\$22.10
Epoxy, w/chips		\$12.00	Flagstone		\$16.93
Terrazzo		\$19.94	Wood		
Concrete Toppings			Block, End Grain		\$12.50
Cement Troweled, 1/2"		\$6.25	Oak		\$10.64
Cement Troweled, 1"		\$6.50	Pine		\$7.64
Add for Coloring		\$1.30	Parquet Blocks, Pre-finished		\$20.01
Add for Hardener & Sealer		\$1.50	Add for Sleepers, 24" oc		
Resilient			1" x 2"		\$5.50
Vinyl or Asphalt Tile		\$2.78	2" x 4"		\$2.75
Vinyl Sheet		\$5.10	Computer Floor, Raised		
Rubber Tile or Sheet		\$17.50	Metal on Plywood		\$14.50
Cork Tile		\$15.20	Aluminum Panels		\$28.33
Synthetic Turf		\$16.63	w/Vinyl Covering - Add		\$6.44
Paint			w/High Pressure Laminate -Add		\$6.10
on Masonry & Porous Surface		\$1.05	w/Carpet Cover - Add		\$8.50

**31 Electrical and Lighting
(Cost per SFSA)**

Cost includes electrical panel, wiring and average grade lighting fixtures & devices, all in place. The price does not include special wiring, such as alarm or signal systems.

Type Service	Comm.	Ind.	Office
Scant Service			
Flexible Conduit	\$8.08	\$4.38	\$9.61
Rigid Conduit	\$9.29	\$5.47	\$11.05
Average Service			
Flexible Conduit	\$11.54	\$6.25	\$13.73
Rigid Conduit	\$13.27	\$7.81	\$15.79
Abundant Service			
Flexible Conduit	\$16.15	\$8.75	\$19.22
Rigid Conduit	\$18.58	\$10.93	\$22.11
Unfinished Areas			
Flexible Conduit	\$3.23	\$2.34	\$3.43
Rigid Conduit	\$3.72	\$2.93	\$3.95

Cost by Use

Listed below are typical average electrical system costs according to certain occupancies. The unit price is to be applied to floor area of electrical service

Use Type	Per SFSA	Use Type	Per SFSA
Branch Banks	\$19.45	Office Buildings	
Department Stores	\$9.23	Avg. Quality	\$13.73
Discount Stores	\$7.95	High Quality	\$20.66
Garages	\$6.73	Retail Stores	\$7.75
Service	\$8.90	Restaurants	
Storage	\$4.55	Low Quality	\$12.32
Manufac. Light	\$6.46	High Quality	\$24.64
Manufac. Heavy	\$13.80	Supermarkets	\$10.33
Mini-Warehouse	\$2.34	Warehouses	\$4.55

32		Plumbing	
The typical fixture cost is for sinks, water closets, tubs, water heaters, urinals, etc. The cost includes amounts for fixture water supply, waste, and vent lines. Exterior piping to the building is not included.			
Typical Fixtures			
Residential Type 1 \$930	Commercial Type 2 \$1,500	Industrial Type 3 \$2,000	Specialty Type 4 See Below
Specialty Fixtures		Each	
Drinking Fountain,	Floor		\$2,100
	Wall		\$1,700
Electric Water Cooler			\$1,700
Laundry Tub,	Single		\$1,500
	Double		\$1,650
Sump Pump			\$380
Janitor's Sink			\$1,110
Emergency Shower or Face Wash			\$1,540
Cast Iron Trough Sinks,	4 Faucet 48"		\$2,100
	8 Faucet 96"		\$3,500
Add for Stainless Steel		20%	
Circular Wash Sinks		36"	54"
Polished Cement		\$3,000	\$3,750
Terrazzo		\$3,150	\$3,900
Enameled Steel		\$3,500	\$4,225
Stainless Steel		\$3,700	\$4,750
Semi-Circular Wash Sinks		36"	54"
Polished Cement		\$2,730	\$3,290
Terrazzo		\$2,900	\$3,500
Enameled Steel		\$3,150	\$3,800
Stainless Steel		\$3,250	\$4,100
Column Showers		Enameled Steel	Stainless Steel
Circular (per Shower head)		\$500	\$750
Semi-Circular (Per Shower)		\$700	\$950
Single Stall Shower			
w/Receptor & Curtain Hanger			\$800
w/Receptor & Hinged Door			\$1,000
Note: Above prices do not include partitions.			

**33 Heating-Ventilation-Air Conditioning (HVAC)
Per SFFA**

Prices for HVAC are provided below according to finish or use of the building (or area within the building). The prices were developed on the basis of heating, ventilation or air conditioning cubic area and then converted to SF costs for the convenience of the assessor. Because of this, it may be necessary to adjust the costs for height. The base height is 14' and 3% of the cost indicated should be added or deducted for each foot of height variation in the subject building.

Type	Comm.	Ind.	Office
Electric Baseboard	\$3.85	\$3.65	\$5.50
Electric Wall/Floor Heaters	\$2.33	\$2.33	\$3.10
Heat Pump, Heat & Cool	\$7.38	\$5.82	\$11.36
Forced Warm Air, Central System	\$5.48	\$4.12	\$8.22
Ventilation only w/Ducts	\$1.25	\$0.90	\$1.92
Hot Water Baseboard	\$8.94	\$6.29	\$13.38
Radiant Floor	\$4.50	\$3.26	\$6.75
Steam Radiators			
w/Boiler	\$6.44	\$5.12	\$12.31
w/o Boiler	\$5.24	\$4.22	\$10.09
Suspended unit heaters			
Gas Fired	\$2.10	\$1.60	\$2.55
w/Steam or Hot Water Coil	\$3.50	\$1.85	
Zoned Hot & Cold Water	\$18.50	\$14.00	\$28.00
Zoned Hot & Cold Air	\$10.50	\$8.00	\$16.50
A/C Central Forced Air	\$6.50	\$4.50	\$9.50

Suspended Unit Heaters (Cost Each)

In those instances where a building has a very limited number of individual heating units, the above square foot cost might not be applicable. For a more reasonable cost estimate each individual heater should be priced separately. The costs are provided below and need not be adjusted for story height.

BTU Rated Capacity	Cost Each	BTU Rated Capacity	Cost Each
35,000	\$1,750	150,000	\$2,500
75,000	\$2,050	250,000	\$3,450
100,000	\$2,200	400,000	\$5,500

33, cont. Heating-Ventilation-Air Conditioning (HVAC), continued			
Electric Heaters (Cost Each)			
Infra-Red Ceiling or Wall			
1 kw: \$500	2 kw: \$600	3 kw: \$800	
Infra-Red Modular Baseboard or Wall Units			
1 kw: \$550	3 kw: \$850	5 kw: \$1,000	
Ventilators			
Roof Power Driven	Cost Each	Roof Gravity Type	Cost Each
12"	\$600	12"	\$450
18"	\$850		
24"	\$1,050	24"	\$1,500
30"	\$1,250	30"	\$1,800
36"	\$1,500	36"	\$2,200
48"	\$1,800	48"	\$2,850
For wall mounted power ventilators, deduct 10% from cost of roof power drive ventilators.			

34 Fire Escapes	
Counterbalanced	
Two Story Building	\$8,400
Each, Additional Flight	\$4,150
Balcony and Stairs	
Steel Balcony - 2' Wide (per LF)	\$250
- 3' Wide (per LF)	\$300
Steel Stairs - 3 Wide (per Flight)	\$3,750
Ladders	Per VLF
Steel, Bolted to Building	
w/Cage	\$170
w/o Cage	\$95
Aluminum, Bolted to Building	
w/Cage	\$180
w/o Cage	\$100

35 Fire Protection Equipment		
	Each	
Metal Hose House	\$800	
Hose House Equipment		
100 LF Industrial Fire Hose		
1 1/2" Diameter	\$290	
2 1/2" Diameter	\$415	
Hose Racks		
Swinging w/125'	\$530	
1 1/2" Hose	\$565	
Alarm Systems		
4 Zone w/Control Panel	\$2,250	
8 Zone w/Control Panel	\$3,400	
12 Zone w/Control Panel	\$4,800	
Fire Pumps		
Including controls and accessories (not including piping).		
GPM	Electric	Diesel
500	\$34,000	\$93,000
750	\$41,000	\$100,000
1,000	\$49,000	\$106,000
1,500	\$61,000	\$115,000
2,000	\$65,000	\$121,000
2,500	\$74,000	\$127,000
Pump Houses		
Includes concrete floor, wall & roof construction, pump pits, lighting, water connection, and doors		
Type Construction	Per SF	
Corrugated Metal - Wood Frame	\$58.00	
- Steel Frame	\$66.00	
Concrete Block - Load Bearing	\$92.50	
Add for Space Heater from HVAC Schedule 31		
Add for Underground Pipe from Schedule 69		

36 Fire Sprinkler System		
Sprinkler costs include all interior heads, supply lines, and accessories. Wet system piping contains water at all times; dry pipe system contains air under pressure and is used in unheated areas where freezing might be encountered. For dry pipe systems, add 10% to the wet system prices. Pumps should be added to the costs below.		
Area Serviced	Cost per SFSA	
	Ordinary Hazard*	Extra Hazard**
Through 1,000 SF	\$8.75	\$13.10
1,001 - 2,000	\$8.50	\$12.75
2,001-5,000	\$5.60	\$8.40
5,001-10,000	\$4.68	\$7.00
Over	\$4.20	\$6.30
*Ordinary hazard occupancies include stores, commercial, offices, garages, factories, warehouses, etc.		
** Extra hazard occupancies include aircraft hangers, chemical works, linoleum manufacturing, paint shops and varnish works, solvent extracting. etc.		

37 Underground Fuel Storage Tanks		
Gallons Capacity	Fiberglass	Steel
550	\$9,780	\$9,750
1,000	\$15,800	\$12,700
2,000	\$17,400	\$16,500
4,000	\$22,400	\$20,750
6,000	\$27,300	\$28,400
10,000	\$36,600	\$38,600
12,000	\$45,500	\$46,700
15,000	\$54,700	\$53,200
20,000	\$64,000	\$69,200
30,000	\$95,000	\$99,000
Price includes excavation, setting in place, and all backfill. Price is for single wall; add 50% for double wall.		

38 Gas Pumps and Dispensers (Electronic)	
Type	Item Cost
Single hose, 1 product	\$12,565
Single hose, 2 products	\$18,760
Single hose, 3 products	\$23,340
Add for double-sided operation	\$6,275

39 Escalators (Cost per Flight)		
Story Height	Stair Width	
	32''	48''
10'	\$158,400	\$166,300
12'	\$159,200	\$167,200
14'	\$155,000	\$162,800
18'	\$163,700	\$171,900
22'	\$187,900	\$197,300
25'	\$198,000	\$207,900
Add \$1,200 per foot of rise per unit for glass panel sides.		

40 Vertical Lifts	
Type	Cost
Electric Dumbwaiter - 500#	\$29,350
Electric Man Lift*	\$10,500
Manual Dumbwaiter	\$15,200
Manual Man Lift*	\$3,200
*Add \$1,500 per stop over two.	

41 Dock Gates (Hinged, Painted Steel, Diamond Pattern, Scissor Type)		
	Width	6' High
Single	5'	\$550
	6'	\$575
	8'	\$675
Double	8'	\$950
	10'	\$975
	12'	\$1,350
	14'	\$1,480
Additions (+)		
Aluminum Gates		125%
Stainless Steel Gates		150%
Bronze Gates		250%
Door Seals Vinyl Covered (Per LF)		\$73.38
Expanded Truck & RR Shelter (each)		\$2,000.00
Rubber Dock Bumpers		
	12" high X 14" long (each)	\$146.00
	24" long (each)	\$165.00
	36" long (each)	\$244.00

42 Retaining Walls		
Prices are for exposed face area and includes concrete footing 3' below grade.		
	Type	Per LF
Concrete Block	6' high	\$210.61
	8'	\$234.86
	10'	\$259.11
Reinforced Block	6' high	\$263.26
	8'	\$293.58
	10'	\$323.89

43 Loading Ramps and Wells	
Type	Per SF
Truck Ramp - Concrete, 0' to 4' Rise	\$18.50
Truck Well - Concrete, 0' to 4' Deep	\$18.50
Truck or RR Well, grade level, 4' High with Concrete Side Walls	\$12.75

44 Dock Levelers		
Deck Size	Capacity (lbs.)	Cost Each
6' x 8' Fixed	5,000	\$4,500
6' x 8' Hinged	20,000	\$5,400
7' x 8' Hinged	20,000	\$5,800
6' x 8' Hydraulic	20,000	\$6,800
7' x 8' Hydraulic	20,000	\$7,500

45 Dock Canopies	
Type	Per SF
Simple Wood or Steel without Lighting	\$14.50
Good Structure with Lighting, Soffit	\$26.50

46 Loading Docks						
Concrete:						
Includes Concrete Foundation, Floor, Retaining Walls, Bumpers and Steps						
Dock Width	SF Costs where length is					
	10'	20'	30'	50'	100'	200'
5'	\$92.38	\$76.43	\$71.10	\$66.84	\$63.65	\$62.06
10'	\$57.11	\$46.47	\$42.90	\$40.07	\$37.94	\$36.87
15'	\$45.35	\$36.47	\$33.51	\$31.14	\$29.36	\$28.47
20'	\$39.47	\$31.47	\$28.81	\$26.68	\$25.08	\$24.28
30'	\$33.60	\$26.48	\$24.11	\$22.21	\$20.79	\$20.08
For Concrete Block Walls.....Deduct 6.5%						
Wood:						
Includes Concrete Piers, Wood Posts & Girder Framework, Bumpers and Steps						
Light Construction - 2" Plank or 2" Joists.....Deduct 25%						
Heavy Construction - 4" Plank or 4" Joists.....Add 50%						

47 Cold Storage Refrigeration					
For accurate cost build-up of cold storage plants, determine the basic building cost then add for the insulation, doors, refrigeration equipment, etc.					
Insulation (per SFSA)					
Apply costs to insulated surface area of the walls, ceilings and floors. Costs do not include prices of inner walls or partitions that may be made of concrete, concrete blocks, or wood that must be priced from the appropriate CIP schedule. For coolers or freezers without floors, deduct 23% from total costs.					
Type	1"	2"	4"	6"	8"
Cork	\$3.15	\$3.62	\$4.84	\$5.65	\$6.42
Fiberglass Board	\$2.77	\$2.79	\$3.15	\$3.31	\$3.56
Foam glass Board	\$3.20	\$3.80	\$4.91	\$6.08	\$7.22
Mineral Wool Batts	\$2.50	\$2.59	\$2.86	\$3.11	\$3.33
Styrene Board	\$2.50	\$2.63	\$2.86	\$3.17	\$3.40
Urethane Board	\$2.77	\$3.29	\$4.14	\$5.09	\$6.03
Urethane Sprayed	\$1.80	\$2.52	\$3.89	\$5.40	\$6.19
Doors (Per SFDA)					
Costs are for manually operated, hinged, galvanized doors.					
SFDA	2"	4"	6"	8"	
Up to 15 SF	\$159.31	\$170.53	\$182.24	\$194.31	
16-25	\$136.38	\$148.69	\$161.72	\$176.21	
26-40	\$114.66	\$127.33	\$142.41	\$159.31	
Over 40	\$96.55	\$108.62	\$124.31	\$141.21	
For other doors, use the following adjustments					
Stainless Steel				Add 12%	
Wood Clad				Deduct 15% per Side	
Sliding Doors		- Single		Add 10%	
		- Double		Add 40%	
Add for Electric Operators by Door Type					
Hinged		- Single		\$3,200 Each	
		- Double		\$4,500 Each	
Sliding		- Single		\$5,500 Each	
		- Double		\$6,500 Each	

47, cont. Cold Storage Refrigeration, Doors, continued			
Walk-in Boxes-Prefab			
Cost includes complete galvanized unit 7'6" high, including doors, floors and refrigeration equipment. For wood exterior and interior, deduct 10%; without floor, deduct 6%.			
Size/SF	32° F to 60° F	5° F to 31° F	Minus 15° to 5° F
50	\$9,750	\$12,950	\$14,200
100	\$13,250	\$19,250	\$23,000
200	\$20,500	\$28,000	\$36,750
300	\$26,250	\$36,350	\$46,000
400	\$33,500	\$41,500	\$51,000
500	\$38,150	\$48,200	\$61,900

48 Refrigeration Equipment	
Room Type	Per CF
Cooler, up to 50° F	\$0.95
Chiller, up to 0° F	\$1.15
Freezer, below -15° F	\$1.50
Sharp Freezer, below -30° F	\$2.10
Accessories	
Shelving - Plated or Galvanized.....	\$32.50
Stainless Steel Shelving.....	\$47.50

49 Passenger Elevators		
Electric		
Costs include shaft, penthouse, cab and automatic controls for passenger-operated (push-button) elevator with power-operated doors. Deduct 10% for manual controls.		
Speed/FPM	Capacity (Lbs.)	Cost per Elevator*
100	2,000	\$86,000
	2,500	\$98,500
	3,000	\$105,000
150	2,000	\$97,500
	2,500	\$112,000
	3,000	\$118,500
200	2,000	\$103,700
	2,500	\$127,300
	3,000	\$128,600
250	2,000	\$115,500
	2,500	\$130,200
	3,000	\$137,500
300	2,000	\$122,500
	2,500	\$137,500
	3,000	\$145,000
350	2,000	\$129,500
	2,500	\$145,000
	3,000	\$152,500
*Add for Each Stop.....		\$7,180
Hydraulic		
Costs include shaft, penthouse, cab and automatic controls for passenger-operated (push-button) elevator with power-operated doors. Deduct 10% for manual controls.		
Speed/FPM	Capacity (Lbs.)	Cost per Elevator*
100	2,000	\$66,400
	2,500	\$72,600
	3,000	\$74,500
150	2,000	\$72,500
	2,500	\$76,000
	3,000	\$77,000
200	2,000	\$77,500
	2,500	\$81,000
	3,000	\$83,500
*Add for Each Stop.....		\$8,400

52 Railroad Scales	
Cost includes concrete pit and platform with steel scale mechanism.	
Capacity/Ton	Cost
150	\$111,000
175	\$124,000
200	\$139,000
250	\$173,000
300	\$217,000
350	\$271,000

53 Floor Recessed Scales	
Cost of built-in floor scale includes cost of pit, scale, and platform. For wood platform, deduct 6%.	
Capacity/lbs.	Cost
4,000	\$10,900
6,000	\$14,500
10,000	\$20,900
20,000	\$30,000

54 Truck Scales	
Cost includes pit, beam scale, and steel weight bridge. For wood platform, deduct 6%	
Capacity/Ton	Cost
20	\$39,900
30	\$46,500
40	\$53,400
50	\$60,700
60	\$58,000
70	\$78,800
Add for:	
Automatic Card Printer.....	\$1,750
Remote Reading Electronic System.....	\$7,900

55 Industrial Wells and Pumps				
Costs include the complete well insulation excluding pumps. Price well pumps separate from wells.				
Wells		Vertical Pumps		
Size	Cost per VLF	GPM	HP	Cost
4"-6"	\$45.36	200	5	\$12,595.00
8"-10"	\$76.86	600	10	\$17,750.00
12"-14"	\$97.56	1,000	20	\$24,750.00
16"-18"	\$122.28	2,000	30	\$38,000.00
20"-22"	\$145.62	4,000	60	\$65,800.00
24"-26"	\$174.12	6,000	100	\$86,000.00
28"-30"	\$199.20	10,000	150	\$145,700.00

56 Towers	
Self-Supporting (each):	
50'	\$20,000
75'	\$37,000
100'	\$58,000
150'	\$108,000
200'	\$133,000
225'	\$141,000
250'	\$154,000
300'	\$169,000
350'	\$195,000
400'	\$220,000
Triangular Guyed (Per LF Ht):	
10" Ham Radio, Police, Fire	\$113
20" Taxi, Public	\$160
24" Radio, V.H.F., U.H.F	\$219
30" Cellular	\$278
40" Microwave	\$350
54" Television	\$689

57 Traveling Overhead Cranes				
Bridge Span	Capacity			
	10 Ton	15 Ton	20 Ton	25 Ton
20'	\$97,500	\$112,000	\$127,500	\$148,000
30'	\$105,500	\$122,000	\$137,500	\$157,500
40'	\$115,000	\$130,000	\$150,000	\$170,000
50'	\$127,500	\$142,500	\$162,000	\$182,500
75'	\$160,000	\$175,000	\$195,000	\$218,000
100'	\$200,000	\$220,000	\$240,000	\$260,000

Costs are averages for ground controlled, variable speed, twin girder, and overhead cranes (exclusive of craneways). For cranes with cabs, add \$6,000 for minimum controls; add \$21,750 for deluxe cabs with air conditioning and complete controls.

58 Craneways (Per LF)				
Beam Size	Supports 20'oc	Supports 25'oc	Supports 30'oc	Bldg. Framing Supported
12"	\$400	\$360	\$335	\$205
15"	\$450	\$410	\$380	\$235
18"	\$535	\$480	\$445	\$275
20"	\$600	\$535	\$500	\$305
24"	\$655	\$590	\$550	\$335
30"	\$770	\$700	\$650	\$395
36"	\$890	\$800	\$750	\$455

Costs are based on 16' height including craneways and supporting columns. Costs are for length of craneway. Add or subtract 5.5% for each 2' of variance from base ht.
Example: 100 LF of 18" craneway beams with supporting columns 25'oc, 20' high = \$480 + (2 x 5.5% x \$480) = \$532.80; 100 LF at \$532.80 = \$53,280 craneway cost.

59 Industrial Monorail Cranes			
Capacity (Tons)			
2	3	5	10
\$11,500	\$12,000	\$13,500	\$17,000
<p>Costs are for smaller industrial hoists where lower capacity and headroom is required and where each has their individual craneway bracing or support system. The steel columns and beams of the support system must be priced and added to the hoist cost.</p>			

60 Above Ground Storage Tanks		
Gallons Capacity	Steel	Wood
10,000	\$50,000	\$20,000
20,000	\$80,000	\$35,000
30,000	\$105,000	\$45,000
50,000	\$142,500	\$62,500
75,000	\$190,000	\$80,000
100,000	\$220,000	\$97,500
125,000	\$245,000	\$114,000
150,000	\$265,000	\$130,000
200,000	\$290,000	\$154,000
250,000	\$340,000	
300,000	\$375,000	
400,000	\$467,500	
500,000	\$548,000	
750,000	\$705,000	
1,000,000	\$812,500	
<p>Cost includes sand and gravel foundations on smaller tanks, concrete foundations on larger tanks, ladders or stairs, painting, fittings, etc.</p>		

61 Jib Cranes--Column or Wall Mount				
Costs include column, boom and base, if any. Capacities are for the jib crane only and costs do not include the price of the chain or rope hoist that must be added.				
Boom Length		Capacity (lbs.)		Cost
8'		1,000		\$2,350
		4,000		\$3,800
		8,000		\$5,800
12'		1,000		\$2,850
		2,000		\$3,600
		4,000		\$4,950
		8,000		\$7,750
16'		1,000		\$3,600
		6,000		\$8,400
		8,000		\$10,250
Chain or Rope Hoists				
Electric		Manual		
Capacity (lbs.)	Cost	Capacity (lbs.)	Cost	
1,000	\$1,950	1,000		\$550
2,000	\$2,300	2,000		\$700
4,000	\$3,100	4,000		\$1,000
6,000	\$3,750	6,000		\$1,300
*Monorail hoist systems may be priced by adding together the costs of the single steel beam and the chain (or rope) hoist, each according to its size and/or its capacity.				
Steel Columns and Beams				
I Beams		H Beams		
Size	Per LF	Size	Per LF	
4"	\$33.50	4" x 4"		\$37.50
6"	\$44.00	6" x 6"		\$47.50
8"	\$47.50	8" x 8"		\$62.00
12"	\$58.00	12" x 12"		\$104.00
15"	\$74.00	14" x 14"		\$115.00

62		Paving	
Paving Type		Paving Type	
Asphalt	Per SFGA	Curbs	Per LF
Binder Course		Asphalt	
2" Thick	\$1.59	6" x 8"	\$5.56
3" Thick	\$2.33	8" x 8"	\$6.30
4" Thick	\$3.07	Concrete	
Wearing Course		6" x 18" Cast in Place, Straight	\$16.80
1 1/2" Thick	\$1.38	6" x 18" Cast in Place, Curved	\$20.54
2" Thick	\$1.76	6" x 18" Precast, Straight	\$22.80
2 1/2" Thick	\$2.14	6" x 18" Precast, Curved	\$28.50
Light Traffic (Drive-ins, Parking Lots, etc.)	\$2.97	Granite	
		5" x 16"	\$24.50
Heavy Traffic (Truck Stops, Service Stations, etc.)	\$5.21	6" x 18"	\$29.90
Concrete	Per SFGA	Sidewalks	Per SFGA
6"	\$3.65	Asphalt on Ground	
8"	\$4.73	2"	\$3.50
9"	\$5.75	2 1/2"	\$4.10
Crushed Stone (includes Grading)	Per SFGA	Concrete on Ground	
3"	\$0.70	4"	\$5.16
6"	\$1.22	5"	\$5.89
9"	\$1.88	6"	\$6.63
Steps	Per LF Tread	Add for Exposed Aggregate	\$1.30
Concrete	\$36.84	Prepared Base (for Above Walks)	
Brick	\$63.58	4"	\$0.79
Railroad Ties	\$44.50	6"	\$1.56

63 Yard Lighting				
Type and Height	1 Arm	2 Arm	3 Arm	4 Arm
Aluminum				
20'	\$2,100	\$2,270	\$2,440	\$2,610
30'	\$3,200	\$3,560	\$3,920	\$4,280
40'	\$4,000	\$4,200	\$4,400	
Steel				
20'	\$2,460	\$2,585	\$2,710	\$2,835
30'	\$3,360	\$3,450	\$3,540	\$3,630
Wood				
10'	\$700			
12'	\$795			
15'	\$890			
20'	\$1,050			
Lamps and Lights Add to Cost of Poles and Arms				
Type	Wattage		Cost Each	
Incandescent	500		\$380	
	1,000		\$500	
	1,500		\$680	
Metal Halide	175		\$1,000	
	400		\$1,400	
	1,000		\$1,950	
Mercury-Vapor	400		\$850	
	1,000		\$1,170	
Sodium	400		\$990	
	1,000		\$1,400	

64 Fencing			
Type	Height		
	4'	6'	8'
Chain Link	\$14.20	\$15.69	\$16.96
Add for			
Gates ea.(Swinging)	\$350.00	\$475.00	\$590.00
Motor Operated Add	30%	30%	30%
Vinyl Cover Add	10%	10%	10%
Barbed Guard per LF	\$1.95	\$1.95	\$1.95
Sliding Add	25%	25%	25%
Cedar			
Picket	\$16.20	\$22.80	
Split Rail	\$8.90		
Stockade		\$19.95	
Redwood			
Picket	\$16.59	\$22.98	
Basket Weave	\$23.60	\$26.98	
Solid Board	\$16.75	\$18.55	
Add for Gates per SF	\$12.50	\$14.75	
Vinyl Fences	\$32.50	\$35.50	
Vinyl Gates	\$22.50	\$22.50	

65 Signs			
The cost estimate for a particular sign installation combines the cost of the display sign itself and the costs of the support columns or wall installation.			
Type		Per SF Sign	
Painted Metal			
Single Face		\$52.90	
Double Face (use SF of one side)		\$68.00	
Porcelainized (Add per SFSA)		\$11.25	
w/Neon Tubing (add per Face)		40%	
Plastic - Illuminated			
Single Face		\$115.00	
Double Face (use SF of one side)		\$165.00	
Wall Brackets		Per SF Sign	
Costs of Brackets in place per SF Sign Surface, projected from wall		\$7.75	
Sign Poles			
Costs include concrete base. Estimate column height from ground to bottom of sign for horizontal signs and overall height for vertical signs.			
Base Dia.	Per LF	Base Dia.	Per LF
4"	\$72.00	10"	\$144.00
6"	\$84.00	12"	\$188.00
8"	\$110.00	14"	\$220.00
Billboard Signs			
Single face w/wood poles (SFSA)		\$33.00	
Art, Display & Pictorial (SFSA)		\$5.50	
Steel Poles (SFSA)		\$9.25	
Wood Platform (LF)		\$32.50	
Steel Platform (LF)		\$63.00	
Additional Back-to-Back Sign Panel		Add 50%	
Illumination (Base cost per Site)		\$1,200.00	
Add for Lighting			
Incandescent		\$320.00	
Quartz		\$525.00	
Mercury Vapor		\$1,350.00	
Sodium		\$1,900.00	

66 Parking Lot Accessories	
Barrier Gate: Programmable	\$7,200
Card Reader	\$3,350
Cashier Booth Average	\$22,500
Fee Computer	\$12,500
Ticket Splitter w/time & date	\$12,000
Magnetic Stripe Encoding	\$21,000
Vehicle Detector	\$660
Guide Rails (per LF)	
Corrugated Steel	\$32.00
Timber	\$33.50
Cable	\$13.50
Paint Striping (per LF)	\$0.45

67 Canopies (Free Standing)			
Service station / convenience store type			
Steel with illuminated plastic signs on sides			
Type	Less than 500 SF	500-1,000 SF	Over 1,000 SF
Painted steel	\$46.38	\$43.80	\$36.12
Porcelain & steel	\$49.32	\$46.02	\$42.96

68 Flagpoles (Includes Concrete Base)					
Type	Height				
	20'	25'	30'	35'	50'
Aluminum	\$2,244	\$2,540	\$2,790	\$3,420	\$6,050
Steel	\$2,470	\$2,800	\$3,070	\$3,760	\$6,650
Fiberglass	\$2,230	\$2,520	\$2,750	\$3,300	\$8,100
Wood		\$2,500	\$2,800		
For Bronze or SS poles, Add 125% to Steel Prices					

69 Septic Tanks (Not Including Piping)			
Gallons Cap.	Precast Concrete	Fiberglass	Polyethylene
750	\$1,010	\$2,700	\$1,460
1,000	\$1,350	\$2,810	\$1,600
1,250	\$1,675	\$2,870	\$2,560
1,500	\$1,975	\$3,110	\$2,860
2,000	\$2,825	--	--
4,000	\$8,750	--	--
6,000	\$13,075	--	--
10,000	\$19,085	--	--
Leaching Lines - Tile (Per LF).....			\$13.40
Plastic Pipe (Per LF).....			\$8.08

70 Sewage Pumping Stations (Not Including External Piping)	
Costs are for prefabricated steel, concrete, or fiberglass plants with 200 and 1,000 gallon per minute capacities.	
200 GPM	\$82,000
1,000 GPM	\$152,000
Add for generator Unit	
200 GPM Concrete	\$33,500
Steel	\$52,000
1,000 GPM Concrete	\$46,500
Steel	\$57,000

71 Sewage Treatment Plants (Not Including Underground Piping)		
Type	GPD	Cost per Gallon
Steel - Blown Air Aeration Plant	1,000	\$320.00
	5,000	\$240.00
	15,000	\$137.50
	50,000	\$57.50
	100,000	\$37.50
	200,000	\$35.00
	500,000	\$26.50
Concrete - Extended Primary and Secondary Treatment	10,000	\$107.50
	50,000	\$52.50
	100,000	\$34.00
	500,000	\$24.00

72 Elevated Tanks				
Costs include tank, tower, riser pipe, ladders, balcony, etc.				
Steel Tanks				
Capacity (Gallons)	Tower Height			
	50'	75'	100'	150'
50,000	\$375,000	\$414,000	\$475,000	\$614,000
75,000	\$448,000	\$496,000	\$556,000	\$690,000
100,000	\$485,000	\$530,000	\$594,000	\$732,000
200,000	\$800,000	\$865,000	\$930,000	\$1,060,000
300,000	\$998,000	\$1,088,000	\$1,156,000	\$1,286,000
400,000	\$1,170,000	\$1,277,000	\$1,337,000	\$1,482,000
500,000	\$1,310,000	\$1,420,000	\$1,532,000	\$1,690,000
Wood Tanks				
Capacity (Gallons)	Tower Height			
	25'	50'	75'	100'
30,000	\$74,000	\$88,500		
50,000	\$97,700	\$114,000	\$137,000	\$177,000
75,000	--	\$140,000	--	\$220,000

73 Underground Pipe (per LF) Including Trenching and Back Filling						
Costs include pipe and fittings installed up to the building.						
Water, Gas & Steam						
Pipe Diameter	Asbestos Cement	Ductile Iron	Concrete	Plastic	Steel	Valves, Each
4"	\$34.00	\$36.00	--	\$19.50	\$39.50	\$905.00
6"	\$44.00	\$45.00	--	\$23.50	\$49.50	\$1,895.00
8"	\$54.00	\$62.00	--	\$35.00	\$64.00	\$3,300.00
12"	\$103.00	\$86.00	--	\$62.00	\$112.00	\$6,950.00
16"	\$146.00	\$126.00	\$56.00	--	\$140.00	\$9,200.00
24"	\$255.00	\$180.00	\$95.00	--	\$218.00	\$26,000.00
36"	\$442.00	\$262.00	\$190.00	--	\$390.00	\$55,000.00
48"	--	\$366.00	\$288.00	--	\$560.00	\$94,000.00
60"	--	--	\$402.00	--	--	--
72"	--	--	\$550.00	--	--	--
Drain & Sewer						
Pipe Diameter	Asbestos Cement	Corrugated Metal	Plastic	Concrete-Plain	Reinforced	Vitrified Clay
4"	--	--	\$7.50	--	--	\$15.90
6"	\$17.20	\$18.90	\$10.80	\$18.80	--	\$22.20
8"	\$19.80	\$25.50	\$16.60	\$24.20	--	\$29.50
12"	\$40.50	\$44.00	\$29.25	\$34.80	\$36.80	\$57.00
16"	\$54.00	\$51.00	\$43.00	\$37.50	\$40.50	\$77.50
24"	\$93.00	\$83.00	--	--	\$85.00	\$154.00
36"	\$160.00	\$148.00	--	--	\$153.00	\$247.00
48"	--	\$202.00	--	--	\$218.00	--
60"	--	\$246.00	--	--	\$358.00	--
72"	--	\$384.00	--	--	\$430.00	--
Yard Fire Hydrants -- \$4,840 Catch Basins -- \$4,855 each						

74 Stacks (Brick and Concrete)					
Costs include foundation. For square or rectangular stacks, use 1/3 the perimeter, in place of diameter.					
Base Diameter	Brick per VLF	Concrete per VLF	Base Diameter	Brick per VLF	Concrete per VLF
6'	\$930	\$790	16'	\$2,060	\$1,780
8'	\$1,200	\$990	20'	\$2,450	\$2,200
10'	\$1,450	\$1,200	24'	\$2,900	\$2,600
12'	\$1,700	\$1,400	28'	\$3,280	\$2,900
14'	\$1,900	\$1,640	32'	\$3,750	\$3,350