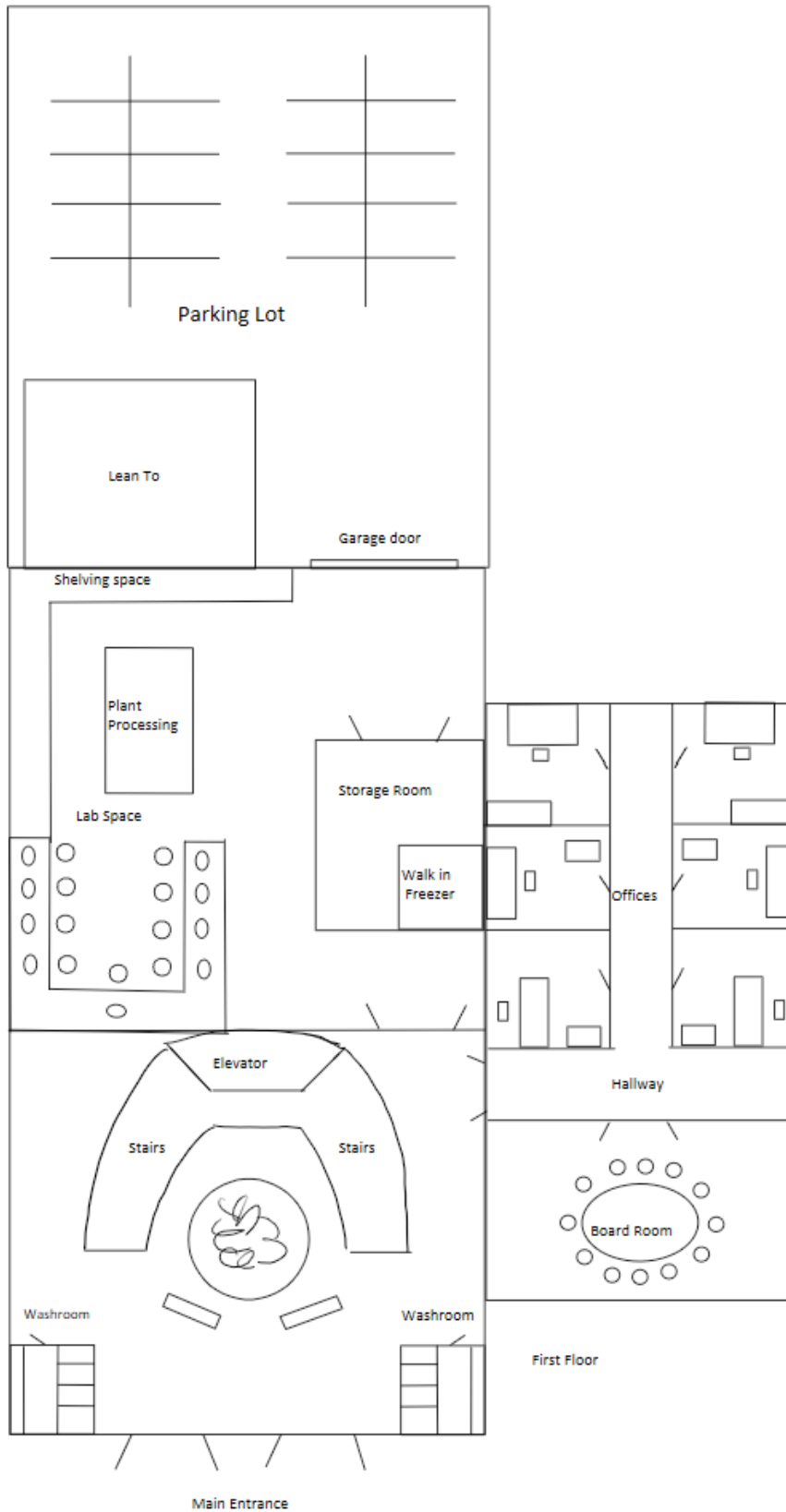
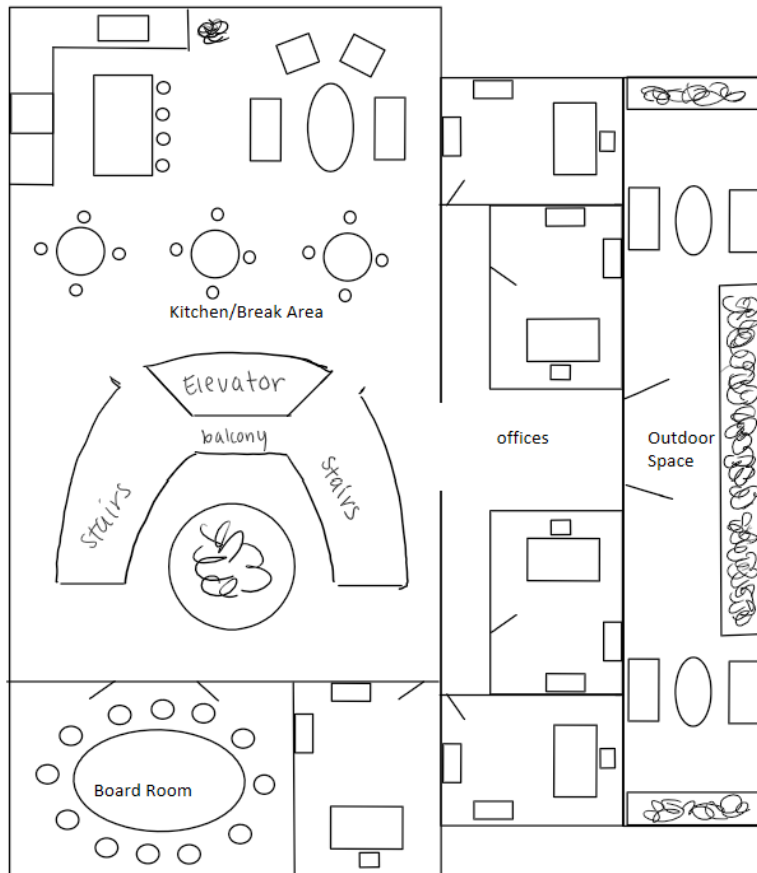


Deliverable E

Detailed Drawing





Second Floor

Our prototypes would be created with a 3D modelling system called Archicad. This software gives out a free 1 year licence to students, hence our total costs for building the prototypes would be \$0. To display our designs though we would require a poster board and stationary for the display's aesthetic which would be \$20.

Prototype Testing Plan:

Test ID	Test Objective (Why)	Description of Prototype Used and Basic Test Description (What)	Description of Results to be Recorded and How these Results will be Used (Why)	Estimated Plan Test Duration and Start Date (When)
1	- This is a communication in order to get feedback on the design in order to	- The prototype will consist of a 3D comprehensive (focused when	- The main results will be measured on a pass or fail basis if the reviewer feels	- The main dependency would be the actual creation of

	<p>make any adjustments in order to better fulfil requirements or needs, or more practically or aesthetically realise design concepts.</p> <ul style="list-style-type: none"> - Feedback will be given by peers, TAs, PMs and the Professor, however ultimately receiving feedback from the client directly (via client feedback) would be the most optimal way to test the prototypes as they understand their needs and personal preferences best. However, as there is an accessibility constraint where we are limited with the meetings we are able to conduct with them, the feedback from others who understand the project or are also working on it can still be beneficial. - The main way in which the test will determine if the prototype is successful or not would be if it meets all the criteria of the client, as if it at least accomplishes such then it is functional. - The testing will thus consist of a 	<p>only one subsystem is evaluated) analytical model. In order for multiple people to generate the design with multiple subsystems it is more efficient to all separately work on the same overall system. Additionally, there may be many minor changes which are much more practically done using software. Finally, in order to test the prototype a physical model isn't truly necessary as there are no performance tests than can truly be done on the models that we would have access to making due to time and monetary constraints such as load testing.</p> <ul style="list-style-type: none"> - The actual creation of the prototype will involve using Archicad which is free and as a backup AutoCAD which will be \$320 per month. Each person will work 	<p>the expectation of the needs are met based on the presented solution. These results are recorded online in which a percentage can be compiled of all the data in order to gauge the average percentage of passing and compile all the feedback for each need or subsystem.</p> <ul style="list-style-type: none"> - This data will be used to see when to stop. The stopping criteria in this case would be if 90% of all the feedback for each need indicates that it is successful. The individual feedback is also important to see what aspect of the design functions better than others and where most of the constructive feedback is found for each prototype. This aligns with the objectives of the test. 	<p>each prototype. In order to evaluate the effectiveness of them they must be entirely completed or updated in order to receive proper feedback of the design as it is not a physical model some unfinished aspects may not initially be noticed which although it was planned to be done can take away attention and feedback from smaller errors that were not considered.</p> <ul style="list-style-type: none"> - The tests fundamentally depend on how much time the reviewer takes to evaluate the prototype; it is estimated to take a maximum of 10 minutes to review. - The results
--	---	--	---	---

	<p>checklist of all the client needs in which the person giving the feedback can evaluate if it succeeds in each criteria or not and then add additional comments for improvements.</p>	<p>on a subsystem or specific part as designated to a team's preference in order to generate a full model with either each floor and an exterior separate or all combined. It is most likely that for our team it will have to be separate as assembling it all together may be somewhat difficult and having it separate does make it more simple to analyse.</p> <ul style="list-style-type: none"> - As previously mentioned the testing process simply involves putting all the criteria in a list that can be marked as successful or not with additional comments that allow for more personalised feedback beyond whether or not the criteria was met. 		<p>must be delivered at least 2 days before the next prototype is due in order to evaluate the feedback and make changes to the prototype in order to then follow up with more feedback using the new design.</p> <ul style="list-style-type: none"> - It is more difficult for the group to receive proper feedback due to the allocated lab time and thus customer meetings and peer meeting time being so close to the due date and thus it is possible that it may not be enough time to have people respond and interpret the data and make changes. If somehow substantial feedback could be delivered
--	---	--	--	---

				<p>before Thursday then it would be more reasonable or if the due date was pushed. It is still worthwhile to compile this data in order to improve the product regardless of the deadline to better understand where the gaps in the design are present. The Gant Chart allocates 6 days in order to compile data which would be more than enough alone however as mentioned the prime time on thursday morning simply does not provide enough time for the changes to be made properly.</p>
--	--	--	--	--

Link To the Google Form That Will Be Used:

https://docs.google.com/forms/d/e/1FAIpQLScSfwZy2TLMCnb8X54if7yByi3lo61zfTRrYDiX290SdjfVBQ/viewform?usp=sf_link

Editor Version:

https://docs.google.com/forms/d/1BGIrl4oGucdR-48O9OvhX9CyN_O0vn1uPXmujJCkuE/e/dit

Possible Project risk:

Materials are unavailable/ increase in price: If materials that we have built into our design all of a sudden become unavailable, we plan to alter the design to accommodate the unexpected shortages to change our materials to ones that are currently available and in the client's price range.

Cannot build during bad weather: the project will be planned to start come springtime so that there is as much workable weather as possible. That way the majority of the exterior can be completed before winter and the construction crew can then use the inclement weather days to construct the interior of the design. If the construction is halted due to poor weather conditions or unexpected natural disasters. The team will increase the project's completion date to a more acceptable and manageable timeline that fits both the budget and the construction company's abilities.

Equipment malfunctions: Built into the budget is wiggle room for possible equipment malfunctions and shortages as well as possible backup machines that can be used on-site as well. This will ensure that the plan can move forward without too much delay.

Cannot build on the ground: If the ground intended for the laboratory site is not fit to withstand the stress of the final building then the group will need to either reconvene with the client to come up with a better placement for the infrastructure, or the design of the final building will need to be redone in order to fit the constraints of the land.

Building Budget:

The screenshot shows the RSMean Online Square Foot Estimator interface. The model is an Office, 2-4 Story (Green) with Face Brick & Concrete Block / Wood Joists. The building cost is \$2,509,321.72. The location is Ottawa, ON. The building has 2 stories (Ea.) and no basement. The cost per S.F. is \$250.93, the floor area is 10,000, the story height is 12.00, and the additive cost is \$84,880.54.

Building Cost	Location	Stories (Ea.)	Basement
\$2,509,321.72	OTTAWA, ON	2	No
Cost per S.F.	Floor Area	Story Height	Additive Cost
\$250.93	10,000	12.00	\$84,880.54

https://www.rsmeansonline.com/SquareFootEstimate/EditEstimate/2363894

Note: Modification of building parameter may reset custom assembly changes.

Step 3: Quick View

		Quantity	% of Total	Cost per S.F.	Cost
A	Substructure		6.16%	\$11.55	\$115,546.11
A1010	Standard Foundations			\$3.93	\$39,325.91
	Strip footing, concrete, reinforced, load 11.1 KLF, soil bearing capacity 6 KSF, 12" deep x 24" wide	360		\$1.70	\$17,043.98
	Spread footings, 3000 PSI concrete, load 200K, soil bearing capacity 6 KSF, 6' - 0" square x 20" deep	19		\$1.88	\$18,753.57
	Spread footings, 3000 PSI concrete, load 300K, soil bearing capacity 6 KSF, 7' - 6" square x 25" deep	2		\$0.35	\$3,528.36
A1030	Slab on Grade			\$3.26	\$32,562.00
	Slab on grade, 4" thick, non industrial, reinforced, recycled plastic vapor barrier	5000		\$3.26	\$32,562.00
A2010	Basement Excavation			\$0.17	\$1,659.90
	Excavate and fill, 10,000 SF, 4' deep, sand, gravel, or common earth, on site storage	5000		\$0.17	\$1,659.90
A2020	Basement Walls			\$4.20	\$41,998.30
	Foundation wall, CIP, 4' wall height, direct chute, .099 CY/LF, 4.8 PLF, 8" thick, 3" XPS	35		\$0.33	\$3,337.18
	Foundation wall, CIP, 4' wall height, direct chute, .148 CY/LF, 7.2 PLF, 12" thick, 3" XPS R15	360		\$3.87	\$38,661.12
B	Shell		30.72%	\$57.63	\$576,281.17
B1010	Floor Construction			\$9.13	\$91,315.50
	Wood column, 8" x 8", 20' x 20' bay, 10' unsupported height, 133 BF/MSF, 160 PSF total allowable load	5000		\$0.27	\$2,674.50
	Wood beam and joist floor, 12"x16" girder, 8"x16" beam, 2x10 joists @ 16", 20'x20' bay, 75 PSF LL, 102 PSF total load	5000		\$8.86	\$88,641.00
B1020	Roof Construction			\$2.75	\$27,544.65
	Wood roof, flat rafter, 2" x 12", 16" O.C.	5000		\$2.75	\$27,544.65
B2010	Exterior Walls			\$31.36	\$313,589.15
	Brick wall, composite double wythe, standard face/CMU back-up, 8" thick, perlite core fill, 3" XPS	6912		\$31.36	\$313,589.15
B2020	Exterior Windows			\$6.85	\$68,487.78
	Windows, aluminum, awning, insulated glass, 4'-5" x 5'-3"	75.13		\$6.85	\$68,487.78
B2030	Exterior Doors			\$1.66	\$16,603.88
	Door, aluminum & glass, with transom, narrow stile, double door, hardware, 6'-0" x 10'-0" opening	1		\$0.87	\$8,666.45
	Door, aluminum & glass, with transom, bronze finish, hardware, 3'-0" x 10'-0" opening	1		\$0.45	\$4,473.55
	Door, steel 18 gauge, hollow metal, 1 door with frame, no label, 3'-0" x 7'-0" opening, low VOC paint	1		\$0.35	\$3,463.88
R3010	Roof Covering			\$5.87	\$58,740.21

Calculate Building Cost Quick View Save Estimate Customize/View Report Clear All Life Cycle Cost

https://www.rsmeansonline.com/SquareFootEstimate/EditEstimate/2363894

Note: Modification of building parameter may reset custom assembly changes.

Step 3: Quick View

		Quantity	% of Total	Cost per S.F.	Cost
B	Shell		30.72%	\$57.63	\$576,281.17
B1010	Floor Construction			\$9.13	\$91,315.50
	Wood column, 8" x 8", 20' x 20' bay, 10' unsupported height, 133 BF/MSF, 160 PSF total allowable load	5000		\$0.27	\$2,674.50
	Wood beam and joist floor, 12"x16" girder, 8"x16" beam, 2x10 joists @ 16", 20'x20' bay, 75 PSF LL, 102 PSF total load	5000		\$8.86	\$88,641.00
B1020	Roof Construction			\$2.75	\$27,544.65
	Wood roof, flat rafter, 2" x 12", 16" O.C.	5000		\$2.75	\$27,544.65
B2010	Exterior Walls			\$31.36	\$313,589.15
	Brick wall, composite double wythe, standard face/CMU back-up, 8" thick, perlite core fill, 3" XPS	6912		\$31.36	\$313,589.15
B2020	Exterior Windows			\$6.85	\$68,487.78
	Windows, aluminum, awning, insulated glass, 4'-5" x 5'-3"	75.13		\$6.85	\$68,487.78
B2030	Exterior Doors			\$1.66	\$16,603.88
	Door, aluminum & glass, with transom, narrow stile, double door, hardware, 6'-0" x 10'-0" opening	1		\$0.87	\$8,666.45
	Door, aluminum & glass, with transom, bronze finish, hardware, 3'-0" x 10'-0" opening	1		\$0.45	\$4,473.55
	Door, steel 18 gauge, hollow metal, 1 door with frame, no label, 3'-0" x 7'-0" opening, low VOC paint	1		\$0.35	\$3,463.88
R3010	Roof Covering			\$5.87	\$58,740.21

Calculate Building Cost Quick View Save Estimate Customize/View Report Clear All Life Cycle Cost

https://www.rsmeansonline.com/SquareFootEstimate/EditEstimate/2363894

Note: Modification of building parameter may reset custom assembly changes.

Step 3: Quick View

		Quantity	% of Total	Cost per S.F.	Cost
B3010	Roof Coverings			\$5.87	\$58,740.21
	Roofing, single ply membrane, TPO, 60 mil membrane, heat welded seams, fully adhered	5000		\$1.23	\$12,313.00
	Insulation, rigid, roof deck, extruded polystyrene, 40 PSI compressive strength, 4" thick, R20	5000		\$2.66	\$26,560.60
	Roof edges, aluminum, duranodic, .050" thick, 6" face	360		\$1.20	\$12,003.84
	Flashing, aluminum, no backing sides, .019"	360		\$0.22	\$2,199.83
	Gravel stop, aluminum, extruded, 4", duranodic, .050" thick	360		\$0.57	\$5,662.94
	Interiors		15.03%	\$28.20	\$281,961.57
C1010	Partitions			\$5.32	\$53,217.15
	Wood partition, 5/8" fire rated gypsum board face, no base layer, 2x4, @ 16", 5/8" reg gypsum board opposite face, 0 insul	4000		\$1.90	\$19,000.40
	1/2" fire rated gypsum board, taped & finished, painted on metal furring, low VOC paint	6912		\$3.42	\$34,216.75
C1020	Interior Doors			\$6.08	\$60,796.20
	Door, single leaf, kd steel frame, hollow metal, commercial quality, flush, 3'-0" x 7'-0" x 1-3/8", low VOC paint	50		\$6.08	\$60,796.20
C1030	Fittings			\$1.86	\$18,625.44
	Toilet partitions, cubicles, ceiling hung, stainless steel	12		\$1.86	\$18,625.44
C2010	Stair Construction			\$1.45	\$14,538.65

Calculate Building Cost Quick View Save Estimate Customize/View Report Clear All Life Cycle Cost

https://www.rsmeansonline.com/SquareFootEstimate/EditEstimate/2363894

Note: Modification of building parameter may reset custom assembly changes.

Step 3: Quick View

		Quantity	% of Total	Cost per S.F.	Cost
C2010	Stair Construction			\$1.45	\$14,538.65
	Stairs, wood, prefab box type, oak treads, wood rails 3'-6" wide, 14 risers	5		\$1.45	\$14,538.65
C3010	Wall Finishes			\$1.27	\$12,690.85
	Vinyl wall covering, fabric back, medium weight	4800		\$0.95	\$9,519.07
	Painting, interior on plaster and drywall, walls & ceilings, roller work, primer & 2 coats, low VOC	3200		\$0.32	\$3,171.78
C3020	Floor Finishes			\$5.01	\$50,119.28
	Carpet tile, nylon, fusion bonded, 18" x 18" or 24" x 24", 24 oz	6000		\$2.72	\$27,194.40
	Tile, ceramic natural clay	1000		\$1.16	\$11,583.80
	Vinyl, composition tile, 12" x 12" x 1/8" thick, recycled content	3000		\$1.13	\$11,341.08
C3030	Ceiling Finishes			\$7.20	\$71,974.00
	Acoustic ceilings, 3/4" mineral fiber, 12" x 12" tile, concealed 2" bar & channel grid, suspended support	10000		\$7.20	\$71,974.00
	Services		43.35%	\$81.34	\$813,381.88
D1010	Elevators and Lifts			\$14.91	\$149,134.80
	Hydraulic passenger elevator, 3000 lb, 3 floors, 12' story height, 2 car group, 125 FPM	1		\$14.91	\$149,134.80
D2010	Plumbing Fixtures			\$4.50	\$44,992.67
	Water closet, vitreous china, bowl only w/ auto flush sensor flush valve, wall hung, 1.28 gpf	4.8		\$1.77	\$17,713.20

Calculate Building Cost Quick View Save Estimate Customize/View Report Clear All Life Cycle Cost

https://www.rsmeanonline.com/SquareFootEstimate/EditEstimate/2363894

Import favorites ASUS E-Service Zumper - Houses, C... Overview (Java Plat... Pearson Sign In

25.00 % / .00 % U % Yes No

Note: Modification of building parameter may reset custom assembly changes.

Step 3: Quick View

		Quantity	% of Total	Cost per S.F.	Cost
	Urinal, vitreous china, wall hung, waterless, ADA	2.4		\$0.19	\$1,914.04
	Lavatory w/trim, vanity top, PE on CI, 20" x 18", faucet w/ hydroelectric powered motion sensor	4.8		\$1.04	\$10,389.77
	Service sink w/trim, PE on CI, wall hung w/rim guard, 24" x 20"	2.4		\$0.94	\$9,368.40
	Water cooler, electric, wall hung, wheelchair type, 7.5 GPH, GreenSpec certified, ADA	2.55		\$0.56	\$5,607.26
D2020	Domestic Water Distribution			\$0.22	\$2,157.75
	Gas fired water heater, commercial, 100< F rise, tankless, on-demand, natural gas/propane, 8.4 GPM	0.5		\$0.22	\$2,157.75
D2040	Rain Water Drainage			\$0.94	\$9,374.15
	Roof drain, CI, soil, single hub, 4" diam, 10' high	2		\$0.48	\$4,776.94
	Roof drain, CI, soil, single hub, 4" diam, for each additional foot add	73		\$0.46	\$4,597.21
D3040	Distribution Systems			\$2.88	\$28,769.59
	Heat recovery pkgs, air to air, enthalpy recovery wheel, 10000 max CFM	1.5		\$2.88	\$28,769.59
D3050	Terminal & Package Units			\$16.75	\$167,486.50
	Roof top, multizone, air conditioner, green offices, 25,000 SF, 50 ton SEER 14	10000		\$16.75	\$167,486.50
Escalator	D4010	Sprinklers		\$3.90	\$38,972.00
	Wet pipe sprinkler systems, steel, light hazard, 1 floor, 5000 SF	3400		\$1.72	\$17,176.39
	Wet pipe sprinkler systems, steel, light hazard, each additional floor, 5000 SF	6600		\$1.90	\$18,978.37
	Standard High Rise Accessory Package 3 story	0.5		\$0.28	\$2,817.24

Calculate Building Cost Quick View Save Estimate Customize/View Report Clear All Life Cycle Cost

https://www.rsmeanonline.com/SquareFootEstimate/EditEstimate/2363894

Import favorites ASUS E-Service Zumper - Houses, C... Overview (Java Plat... Pearson Sign In

25.00 % / .00 % U % Yes No

Note: Modification of building parameter may reset custom assembly changes.

Step 3: Quick View

		Quantity	% of Total	Cost per S.F.	Cost
	Wet pipe sprinkler systems, steel, light hazard, 1 floor, 5000 SF	3400		\$1.72	\$17,176.39
	Wet pipe sprinkler systems, steel, light hazard, each additional floor, 5000 SF	6600		\$1.90	\$18,978.37
	Standard High Rise Accessory Package 3 story	0.5		\$0.28	\$2,817.24
D4020	Standpipes			\$1.06	\$10,591.50
	Wet standpipe risers, class III, steel, black, sch 40, 4" diam pipe, 1 floor	0.6		\$0.57	\$5,713.14
	Wet standpipe risers, class III, steel, black, sch 40, 4" diam pipe, additional floors	2.25		\$0.49	\$4,878.36
D5010	Electrical Service/Distribution			\$6.03	\$60,273.28
	Overhead service installation, includes breakers, metering, 20' conduit & wire, 3 phase, 4 wire, 120/208 V, 800 A	1.25		\$1.62	\$16,155.94
	Feeder installation 600 V, including RGS conduit and XHHW wire, 800 A	100		\$2.00	\$19,986.30
	Switchgear installation, incl switchboard, panels & circuit breaker, 120/208 V, 3 phase, 800 A	1.2		\$2.41	\$24,131.04
D5020	Lighting and Branch Wiring			\$17.52	\$175,233.96
	Receptacles incl plate, box, conduit, wire, 16.5 per 1000 SF, 2.0 W per SF, with transformer	10000		\$5.15	\$51,531.30
	Miscellaneous power, 1.2 watts	10000		\$0.36	\$3,584.70
	Central air conditioning power, 3 watts	10000		\$0.64	\$6,369.80
	Motor installation, three phase, 460 V, 15 HP motor size	2		\$0.54	\$5,438.40
	LED fixtures recess mounted in ceiling, 0.69 watt per SF	11500		\$7.90	\$79,041.46

Calculate Building Cost Quick View Save Estimate Customize/View Report Clear All Life Cycle Cost

Import favorites ASUS E-Service Zumper - Houses, C... Overview (Java Plat... Pearson Sign In

25.00 % / .00 % U % Yes No

Note: Modification of building parameter may reset custom assembly changes.

Step 3: Quick View

		Quantity	% of Total	Cost per S.F.	Cost
	Daylight dimming control system, 5 fixtures per 1000 SF	5000		\$0.85	\$8,507.30
	Lighting on/off control system, 5 fixtures per 1000 SF	10000		\$0.96	\$9,647.60
	Lighting on/off control system, 10 fixtures per 1000 SF	10000		\$1.11	\$11,113.40
D5030	Communications and Security			\$9.88	\$98,788.32
	Telephone wiring for offices & laboratories, 8 jacks/MSF (cost per MSF)	7.5		\$1.76	\$17,578.31
	Communication and alarm systems, fire detection, non-addressable, 100 detectors, includes outlets, boxes, conduit and wire	0.5		\$3.42	\$34,172.05
	Communication and alarm systems, fire detection, addressable, 50 detectors, includes outlets, boxes, conduit and wire	0.5		\$2.16	\$21,640.80
	Fire alarm command center, addressable with voice, excl. wire & conduit	0.5		\$0.67	\$6,667.41
	Internet wiring, 8 data/voice outlets per 1000 S.F.	7.5		\$1.87	\$18,729.75
D5090	Other Electrical Systems			\$2.76	\$27,607.36
	Generator sets, w/battery, charger, muffler and transfer switch, gas/gasoline operated, 3 phase, 4 wire, 277/480 V, 7.5 kW	0.43		\$0.07	\$715.52
	Uninterruptible power supply with standard battery pack, 15 kVA/12.75 kW	1			\$1.36
	Energy monitoring systems, electrical, three phase, 5 meters	0.5		\$0.74	\$7,372.50
	Energy monitoring systems, mechanical, BTU, 3 meters w/3 duct & 3 space sensors	1		\$1.43	\$14,252.10
	Energy monitoring systems, Front end display	3		\$0.21	\$2,120.55
	Energy monitoring systems, Computer workstation	1		\$0.31	\$3,145.33

Calculate Building Cost Quick View Save Estimate Customize/View Report Clear All Life Cycle Cost

https://www.rsmeansonline.com/SquareFootEstimate/EditEstimate/2363894

Note: Modification of building parameter may reset custom assembly changes.

Step 3: Quick View

		Quantity	% of Total	Cost per S.F.	Cost
E	Equipment & Furnishings		4.74%	\$8.90	\$88,957.69
E1090	Other Equipment			\$8.87	\$88,744.84
E1090B30101	5000.00-Green roof with treated wood enclosure, 10 inch depth & sedum mats up to 5 stories	5000.00		\$8.39	\$83,900.00
E1090D50902	1.00-Uninterruptible power supply with standard battery pack, 15 kVA/12.75 kW	1.00			\$1.34
E10900111311	1.00-Green Building Certification, USGBC Fees for commercial, schools, core & shell construction, proj registration fees	1.00		\$0.10	\$979.20
E2020	Waste handling, recycling, tilt truck, plastic, with wheels, 0.5 C.Y., 850 lb capacity	0.5		\$0.39	\$3,864.30
E2020	Moveable Furnishings			\$0.02	\$212.85
E2020	Signage, exterior, surface mounted, 24 ga aluminum, 10" x 7", no smoking	3		\$0.02	\$212.85
F	Special Construction		0%		
G	Building Sitework		0%		
	SubTotal		100%	\$187.61	\$1,876,128.42
	Contractor Fees (GC,Overhead,Profit)		25.0%	\$46.90	\$469,032.11
	Architectural Fees		7.0%	\$16.42	\$164,161.24

Calculate Building Cost Quick View Save Estimate Customize/View Report Clear All Life Cycle Cost

https://www.rsmeansonline.com/SquareFootEstimate/EditEstimate/2363894

Note: Modification of building parameter may reset custom assembly changes.

Step 3: Quick View

		Quantity	% of Total	Cost per S.F.	Cost
E1090B30101	to 5 stories	5000.00		\$8.39	\$83,900.00
E1090D50902	1.00-Uninterruptible power supply with standard battery pack, 15 kVA/12.75 kW	1.00			\$1.34
E10900111311	1.00-Green Building Certification, USGBC Fees for commercial, schools, core & shell construction, proj registration fees	1.00		\$0.10	\$979.20
E2020	Waste handling, recycling, tilt truck, plastic, with wheels, 0.5 C.Y., 850 lb capacity	0.5		\$0.39	\$3,864.30
E2020	Moveable Furnishings			\$0.02	\$212.85
E2020	Signage, exterior, surface mounted, 24 ga aluminum, 10" x 7", no smoking	3		\$0.02	\$212.85
F	Special Construction		0%		
G	Building Sitework		0%		
	SubTotal		100%	\$187.61	\$1,876,128.42
	Contractor Fees (GC,Overhead,Profit)		25.0%	\$46.90	\$469,032.11
	Architectural Fees		7.0%	\$16.42	\$164,161.24
	User Fees		0.0%	\$0.00	\$0.00
	Total Building Cost			\$250.93	\$2,509,321.76

Calculate Building Cost Quick View Save Estimate Customize/View Report Clear All Life Cycle Cost

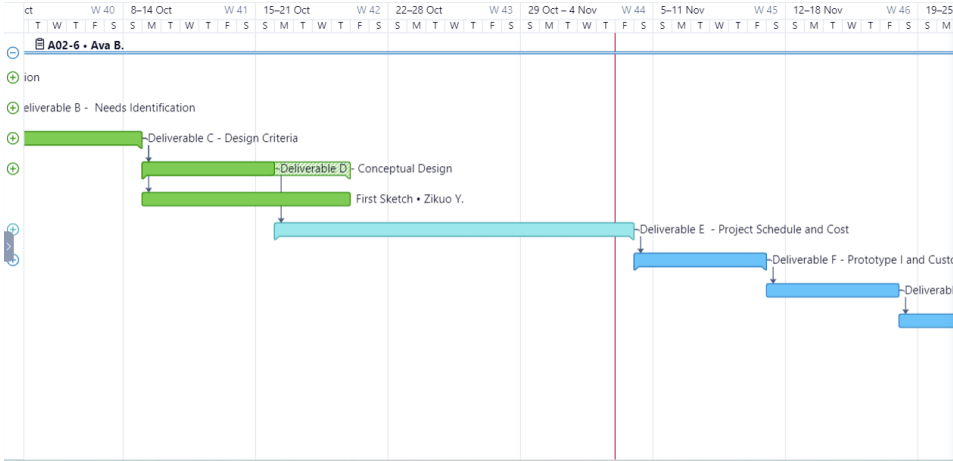
WRIKE SS:

<https://www.wrike.com/frontend/ganttchart/index.html?snapshotId=lrW6hmKs8pydiWKZralful0d8Bdi9W4%7CIE2DSNZVHA2DELSTGIYA>

List Table Gantt Chart

All tasks By Start date Expand all Collapse all

Snapshots



Snapshots

A snapshot shows a project's schedule for a given day. Share it or compare to a project's current schedule as a baseline.

Learn more Got it

New snapshot

From current state

From project history

Added snapshots

3 Nov A02-6 (2)

1 Nov A02-6 (1)

8 Oct A02-6