AMENDATORY CONTRACT AND AGREEMENT

THIS AMENDATORY CONTRACT AND AGREEMENT is made between the **CITY AND COUNTY OF DENVER**, a municipal corporation of the State of Colorado (the "City") and **AP MOUNTAIN STATES, LLC d/b/a ADOLFSON & PETERSON CONSTRUCTION**, with its principal place of business located at 797 Ventura Street, Aurora, Colorado 80011 (the "Contractor"), jointly the "Parties."

RECITALS

A. The City and Contractor entered into a Contract and Agreement dated September 23, 2015 to construct the new Central Denver Recreation Center located at 2401 E. Colfax Avenue (the "Agreement"), and

B. The City and Contractor wish to amend the Contract and Agreement to include Bid Package II.

NOW, THEREFORE, the parties hereby amend the Contract and Agreement as follows:

1. The City wishes to construct a new recreation center on the property currently known as 2401 E. Colfax Ave, previously known as 2405 E. Colfax Ave and 1530 Josephine St, and associated adjacent Right of Way (ROW) improvements known as:

Central Denver Recreation Center - Bid Package I and Bid Package II
PROJECT NO. PWC2014-1003
CONTRACT CONTROL NO. 201523539
(the "PROJECT")

2. Paragraph 9 of the Agreement is hereby amended to read as follows:

"**9.** Based on this review, the Contractor is thoroughly informed about the Project and the Project design. Contractor has submitted and the City has accepted a GMP to construct Bid Package I and Bid Package II of the Project. Paragraph 10 of the Agreement is hereby amended to read as follows:

3. Paragraph 10 of the Agreement is hereby amended to read as follows:

"**10.** As a consequence of the Project's time limitations and in order to maintain the existing Project schedule, the Contractor and the City now desire to enter into a Construction Manager/General Contractor contract (the "Construction Contract") for a Guaranteed Maximum Price (the "GMP") for all of the Work necessary to complete Bid Package I and Bid Package II of the Project."

4. Paragraph 1.1.2 of the Agreement is hereby amended to read as follows:

"**1.1.2** The specific details of the Project are more particularly set forth in Bid Package I GMP, Bid Package Document drawings prepared by the Designer and dated

March 27, 2015 and Bid Package II GMP, Bid Package Document drawings prepared by the Designer and dated October 16, 2015."

5. Paragraph 1.1.3.2 of the Agreement is hereby amended to read as follows:

"**1.1.3.2 Bid Package II Guaranteed Maximum Price (GMP) Work.** The GMP proposal will include remaining building and site work and all work necessary to complete the work more particularly set out in Bid Package II Design Drawings and the Contractor's Basis for GMP Proposal (attached as **Exhibit T**)."

6. Paragraph 1.2 of the Agreement is hereby amended to read as follows:

"**1.2** **Budget**. The Contractor acknowledges and accepts that there are limited funds available to construct the Project. The Project construction budget (the "Budget") is **TWENTY NINE MILLION EIGHT HUNDRED NINETY NINE THOUSAND NINE HUNDRED SEVENTY TWOAND NO CENTS ($29,899,972.00)**, and is subject to increase or decrease at the sole discretion of the Manager of Public Works. The Contract further acknowledges and accepts that the GMP Work must be completed within the construction budget. As part of this acknowledgment and acceptance, the Contractor shall at all times cooperate fully with the City and the Design Consultant to develop the Project and its various components for construction and ultimately construct the Project so as not to exceed the limited funds available in the Project Budget."

7. Paragraph 1.4 of the Agreement is hereby amended to read as follows:

"**1.4** **Allowances**. The allowances set forth in the GMP Proposal have been accepted by the Project Manager. Items covered by allowances shall be supplied for such amounts and by such persons or entities as the City may direct, but the Contractor shall not be required to employ any persons or entities against which the Contractor may make reasonable objection. The Contractor may also supply allowances for those items the Contractor and the Project Manager mutually determine require an allowance. **Exhibit C and Exhibit T** (GMP Proposals) set forth all allowances applicable to the Work unless otherwise provided for in the Contract Documents."

8. Paragraph 1.5.1 of the Agreement is hereby amended to read as follows:

"**1.5.1 Construction Contingency Amount**. The GMP will include a construction contingency in an amount equal to a lump sum of **FIVE HUNDRED NINETY THOUSAND EIGHT HUNDRED SEVENTY SEVEN DOLLARS AND NO CENTS ($590,877.00)** ("Construction Contingency") for the entire scope of the GMP Work. Adjustments to the construction contingency to be made by written amendment."

9. Paragraph 1.5.4 of the Agreement is hereby amended to read as follows:

"**1.5.4 Owner's Contingency Amount.** The GMP will include an Owner's Contingency in an amount equal to a lump sum of **ONE MILLION DOLLARS**

AND NO CENTS ($1,000,000.00) ("Owner's Contingency"). Adjustments to owner's contingency to be made by written agreement."

10. Paragraph 2.1 of the Agreement is hereby amended to add Bid Package II GMP Proposal (attached as **Exhibit T**) and is made a Contract Document.

11. Paragraph 3.2.2.1 of the Agreement is hereby amended to read as follows:

"**3.2.2.1 GMP Scope of Work**. The Contractor shall perform all Construction Services, as set forth in the Bid Package I GMP Proposal, which is attached as **Exhibit C** and Bid Package II GMP Proposal, which is attached as **Exhibit T**.

12. Paragraph 3.3.4 of the Agreement is hereby amended to read as follows:

"**3.3.4** Finally, the Contractor represents that it has reviewed the 100% Construction Documents ("CD"), accepts the terms and requirements thereof and affirmatively states that the Project, as expressed by the design documents and the Project requirements and constraints as modified by value engineering suggestions, budget adjustments and cost cutting measures suggested by the Contractor as of June 29, 2015 and as of January 8, 2016, is a reasonable and constructible Project, incorporating a reasonable and workable delivery approach, schedule and budget."

13. Paragraph 7.2.2 of the Agreement is hereby amended to read as follows:

"**7.2.2** Notwithstanding the bidding requirements set forth in Section 7.2.1, the Contractor shall submit to the City, on or before March 31, 2015, a final Self Performed Work Proposal for the Surveying, Erosion Control, Concrete, Rough Carpentry, Wall Blocking, Doors, and General Trades work on the Project. Such final Proposal shall be for the scope of work described in the Self Performed Work Proposal attached hereto as **Exhibit J** and, under no circumstances, shall the proposal exceed the maximum amount for such work set forth in **Exhibit C and Exhibit T**. Upon receipt of the A&P Mountain States, LLC 13 Contract No. 201523539 final Proposal, the Manager may, at the Manager's sole discretion, accept the proposal, reject the proposal or engage in further negotiations regarding this work. If finally accepted by the Manager, the City will issue a change order for this work and the work described in the Final Self Performed Work Proposal will be incorporated into the GMP Scope of Work and GMP price as if fully set forth herein. In addition, the Construction Time shall be adjusted accordingly. If the City rejects the final proposal, the terms of Section 7.2.1 shall apply to the above described work of the Project."

14. Paragraph 8.1.24 of the Agreement is hereby amended to read as follows:

"**8.1.24** Contractor's General Conditions expenses as identified in **Exhibit C and Exhibit T**. These expenses include rented or purchased materials and equipment used by the Contractor at the Project site office in connection with the Work."

15. Paragraph 8.3 of the Agreement is hereby amended to read as follows:

"**8.3** **<u>Contractor's Fee</u>**. The "Contractor's Fee" (the "Fee") to be paid to the Contractor and included in the GMP shall be a lump sum SIX HUNDRED NINETY TWO THOUSAND SEVEN HUNDRED SEVENTY FOUR **DOLLARS AND NO CENTS ($692,774.00)**, payable in progress installments pursuant to a mutually agreeable schedule of progress installments."

16. Paragraph 8.4.2 of the Agreement is hereby amended to read as follows:

"**8.4.2** **Guaranteed Maximum Price**. The GMP shall be established at the time the GMP proposal is accepted by the City and incorporated herein as **Exhibit C and Exhibit T**, subject to adjustments as provided in the Contract Documents."

17. Paragraph 8.4.3 of the Agreement is hereby amended to read as follows:

"**8.4.3** The Guaranteed Maximum Price consists of the sum of (i) the estimated Cost of the Work; and (ii) the Fee. The Contractor has presented and the City has accepted the Guaranteed Maximum Price and Basis of the GMP Proposal attached hereto as **Exhibit C and Exhibit T**. The Parties specifically agree that the City shall not be subject to any cost, charge or fee under this Agreement that is not specified above."

18. Paragraph 8.6 of the Agreement is hereby amended to read as follows:

"**8.6** Construction Contract Amount and Funding. In accordance with the terms of this Construction Contract, the maximum Construction Contract Amount to be paid by the City to the Contractor under this Agreement shall not exceed **TWENTY NINE MILLION EIGHT HUNDRED NINETY NINE THOUSAND NINE HUNDRED SEVENTY TWO DOLLARS AND NO CENTS ($29,899,972.00)**. The Contractor guarantees and warrants that the Project will be completed by its performance hereunder for the GMP amount. In no event will the City's liability exceed the maximum Construction Contract Amount, as adjusted by duly authorized change order in accordance with this Construction Contract. The parties specifically agree that any performance by the Contractor hereunder shall not subject the City to any cost, charge or fee not specified above."

19. Paragraph 10.6 of the Agreement is hereby amended to read as follows:

"**10.6** **<u>Appropriation</u>**. Notwithstanding any other term, provision, or condition herein, all payment obligations under this Construction Contract shall be limited to the funds appropriated or otherwise made available by the Denver City Council and paid into the Treasury of the City. As of the date of this Construction Contract**, TWENTY NINE MILLION EIGHT HUNDRED NINETY NINE THOUSAND NINE HUNDRED SEVENTY TWO DOLLARS AND NO CENTS ($29,899,972.00)** have been appropriated for this Construction Contract. The Manager of Public Works, upon reasonable written request, will advise the

Contractor in writing of the total amount of appropriated and encumbered funds that are or remain available for payment to the Contractor."

20. Except as herein amended, the Agreement is affirmed and ratified in each and every particular.

[SIGNATURE PAGES FOLLOW]

Contract Control Number:

IN WITNESS WHEREOF, the parties have set their hands and affixed their seals at Denver, Colorado as of

SEAL

CITY AND COUNTY OF DENVER

ATTEST:

By_____

_____

APPROVED AS TO FORM:

REGISTERED AND COUNTERSIGNED:

By_____

By_____

By_____

Contract Control Number: PWADM-201523539-02

Contractor Name: AP Mountain States, LLC

By: _____

Name: TOM HORSTING, SR. VICE PRESIDENT
AP MOUNTAIN STATES
(please print)

Title: _____
(please print)

ATTEST: [if required]

By: _____

Name: _____
(please print)

Title: _____
(please print)

EXHIBIT C

Adolfson & Peterson Construction

797 Ventura Street, Aurora, CO 80011

Project: Central Denver Recreation Center
Owner: City and County of Denver
Architect: Barker Rinker Seacat Architecture

Date: 06/29/15
Estimator: Cole Mayer
Project SF: 61,027
Duration in Months: 19.00
Estimate #: 50% DD

BP1GMP REC

Project Summary Sheet - Estimated Cost of the Work

		BP#1 GMP - 50% DD Estimate	BP#2 - 50% DD Estimate	Subtotal		
Division #0	Procurement and Contracting Requirements	$276,563	$599,802	876,365	$14.36 /SF	3.8% of Direct Costs
Division #1	General Requirements	$161,263	$471,145	632,408	$10.36 /SF	2.7% of Direct Costs
Division #2	Existing Conditions	$61,853	$0	61,853	$1.01 /SF	0.3% of Direct Costs
Division #3	Concrete	$647,936	$592,657	1,240,593	$20.33 /SF	5.4% of Direct Costs
Division #4	Masonry	$0	$1,205,355	1,205,355	$19.75 /SF	5.2% of Direct Costs
Division #5	Metals	$90,000	$2,209,010	2,299,010	$37.67 /SF	10.0% of Direct Costs
Division #6	Wood, Plastics, and Composites	$0	$273,512	273,512	$4.48 /SF	1.2% of Direct Costs
Division #7	Thermal and Moisture Protection	$0	$825,470	825,470	$13.53 /SF	3.6% of Direct Costs
Division #8	Openings	$0	$1,384,997	1,384,997	$22.69 /SF	6.0% of Direct Costs
Division #9	Finishes	$0	$1,573,764	1,573,764	$25.79 /SF	6.8% of Direct Costs
Division #10	Specialties	$0	$227,115	227,115	$3.72 /SF	1.0% of Direct Costs
Division #11	Equipment	$0	$92,595	92,595	$1.52 /SF	0.4% of Direct Costs
Division #12	Furnishings	$0	$147,480	147,480	$2.42 /SF	0.6% of Direct Costs
Division #13	Special Construction	$2,963,771	$0	2,963,771	$48.56 /SF	12.8% of Direct Costs
Division #14	Conveying Equipment	$0	$148,012	148,012	$2.43 /SF	0.6% of Direct Costs
Division #21	Fire Suppression	$0	$297,219	297,219	$4.87 /SF	1.3% of Direct Costs
Division #22	Plumbing	$0	$1,396,692	1,396,692	$22.89 /SF	6.0% of Direct Costs
Division #23	Heating, Ventilating and Air Conditioning	$409,081	$1,575,089	1,984,169	$32.51 /SF	8.6% of Direct Costs
Division #25	Integrated Automation	$0	$0	0	$0.00 /SF	0.0% of Direct Costs
Division #26	Electrical	$0	$1,630,794	1,630,794	$26.72 /SF	7.1% of Direct Costs
Division #27	Communications	$0	$147,654	147,654	$2.42 /SF	0.6% of Direct Costs
Division #28	Electonic Safety and Security	$0	$177,394	177,394	$2.91 /SF	0.8% of Direct Costs
Division #31	Earthwork	$1,878,371	$0	1,878,371	$30.78 /SF	8.1% of Direct Costs
Division #32	Exterior Improvements	$0	$838,020	838,020	$13.73 /SF	3.6% of Direct Costs
Division #33	Utilities	$792,779	$0	792,779	$12.99 /SF	3.4% of Direct Costs
	Subtotal	$7,281,617	$15,813,775	**$23,095,392**	$378.45 /SF	100.0% of Project
	Utility Tap & Devel. Fees	By Owner	By Owner	By Owner		
	Building Permit & Plan Review Fees	By Owner	By Owner	By Owner		
	Use Tax	N/A	N/A	N/A		
	Bidding Contingency	$364,081	$790,689	1,154,770	$18.92 /SF	5% of Subtotal
	Construction Contingency	$160,560	$348,694	509,253	$8.34 /SF	2% of Subtotal
	Builders Risk Insurance	$19,828	$43,061	62,889	$1.03 /SF	0.25% of Project
	Comprehensive General Liability Insurance	$81,391	$176,761	258,152	$4.23 /SF	1% of Costs
	Perform., Labor & Material Bond	$44,282	$96,169	140,451	$2.30 /SF	0.56% of Project
	Escalation Allowance	$119,276	$259,037	378,314	$6.20 /SF	1.50% of Project
	General Contractors Fee	$218,061	$360,029	578,090	$9.47 /SF	
	Preconstruction Services	w/ Precon Ag.	w/ Precon Ag.	0	$0.00 /SF	0.25% of Project
	Estimated Cost of Construction					
	50% DD	**$8,289,096**	**$17,888,215**	**$26,177,310**	$428.95 /SF	100.0% of Project
	Owner's Contingency	**$500,000**				
	Bid Package 1 GMP Total	**$8,789,096**				

Adolfson & Peterson Construction

Central Denver Recreation Center

Detailed Cost Estimate and Budget Control Document

Bid Package #1 - GMP

	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
Division 0 - General Conditions							
00 72 00	**AIA General Conditions**						
	1	BP#1 - General conditions of the contract	1.00	ls	$276,563.00	per GC & Fee Matrix	$276,563
	3	Public services and development fees				Not Included - See Summary	$0
00 72 00 Total						**$276,563**	
Division 0 - General Conditions Total						***$276,563***	
Division 01 - General Requirements							
01 14 00	**Work Restrictions**						
	1	BP#1 - GMP					
	2	Traffic & Pedestrian Control Signage for ROW closures	509.00	days	$25.00		$12,725
	3	Reconfigure, setup/takedown Warning Signage	407.20	hrs	$42.63		$17,358
	4	Off-hours work				Not Included	$0
	5	Site access requirements - offsite staging				Not Included	$0
	6	ROW Closure Permit Fees - sidewalks and traffic lane				Not Req'd per Brett H. email & discussion 11/5	$0
01 14 00 Total						**$30,083**	
01 33 00	**Submittals**						
	1	Delivery costs / messenger services				GC's	$0
	2	Reproduction costs	20.00	ea	$200.00		$4,000
01 33 00 Total						**$4,000**	
01 45 00	**Quality Control**						
	1	Independent testing				By Owner	$0
	2	Soil compaction tests				By Owner	$0
	3	Concrete tests				By Owner	$0
	4	Steel weld test / inspections				By Owner	$0
01 45 00 Total						**$0**	
01 51 00	**Temporary Facilities**						
	2	Recycling Signage on All Dumpsters for LEED Recycling Program	1.00	ls	$400.00		$400
	3	Traffic & Pedestrian Control Plan Development	1.00	sub	$380.00		$380
	4	Jersey Barriers Along Street Work - Rental	376.00	lf	$75.00		$28,200
	5	Jersey Barriers - delivery, setup/takedown	1.00	ls	$4,190.00		$4,190
	6	Right Lane Closure at Josephine Street	30.00	days	$400.00		$12,000
	7	Weather Protection	1.00	allow	$65,000.00	Moved from General Conditions	$65,000
	8	Snow removal	1.00	allow	$7,000.00	Moved from General Conditions	$7,000

Adolfson & Peterson Construction

Central Denver Recreation Center

Detailed Cost Estimate and Budget Control Document

Bid Package #1 - GMP

	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
01 51 00	9	Dumpsters	22.00	ea	$455.00	Avg unit cost used (overweight dumpsters are more)	$10,010
	19	Hoists				By Trade / Division	$0
	20	Const. aids and misc. services				N/A	$0
	21	Temp. enclosures for dust protection & entry				By Demo Sub	$0
	22	Barricades and warning lights				By Division	$0
	23	Environmental protection				Division 2	$0
	24	Exit enclosure for existing exits				Not Included	$0
	25	Temporary heating, cooling and ventilating				By Trade	$0
01 51 00 Total						**$127,180**	
01 54 00	**Construction Aids**						
	1	Temporary elevators				N/A	$0
	2	Temporary hoists				N/A	$0
01 54 00 Total						**$0**	
Division 01 - General Requirements Total						***$161,263***	
Division 2 - Existing Conditions							
02 41 00	**Demolition**						
	1	Building Demolition				Not Included	$0
02 41 00 Total						**$0**	
02 21 00	**Surveys**						
	1	BP#1 - Surveying					$0
	2	Site Surveying	1.00	sub	$57,076.00		$57,076
	3	Horizontal & vertical control	1.00	ls		Included	$0
	4	Building corners	1.00	ls		Included	$0
	5	Verify overlot grading	1.00	ls		Included	$0
	6	Overlot grading	1.00	ls		Included	$0
	7	Utilities	1.00	ls		Included	$0
	8	Sidewalks	1.00	ls		Included	$0
	9	Curb & gutter	1.00	ls		Included	$0
	10	Misc. concrete pads	3.00	ea	$500.00		$1,500
	11	Bluetop asphalt paving	1.00	ls		Included	$0
	12	Drilled piers	1.00	ls		Included	$0
	13	Light pole bases	12.00	ea	$47.00		$564
	14	Tree grates/bike racks/benches, all other site amenities	15.00	ea	$100.00		$1,500
	15	Fencing	1.00	ls		Included	$0
	16	Retaining walls				N/A	$0

Adolfson & Peterson Construction

Central Denver Recreation Center

Detailed Cost Estimate and Budget Control Document

Bid Package #1 - GMP

	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
02 21 00	17	Interior wall layout				By Trade	$0
	18	Misc. staking	1.00	ls	$1,212.80		$1,213
	19	Re-stake original layout 20%	1.00	ls		Included	$0
	20	Certified improvement survey				N/A	$0
02 21 00 Total						**$61,853**	
Division 2 - Existing Conditions Total						***$61,853***	
Division 03 - Concrete							
03 11 00		**Concrete Forming**					
	1	FORMWORK				Included	$0
	2	Assuming Grade Beams on Drilled Piers (Drilled Piers in Div. 31)				Included	$0
	3	BP#1 - Foundation Walls - Rec Center				Below	$0
	4	Formwork for foundations	1.00	sub	$545,000.00		$545,000
	5	Pier Caps - 3'-0"w sq x 3'-0"h	44.00	ea		Included	$0
	6	Elev Pit Slab - 36"th	100.00	sf		Included	$0
	7	GB (int) - 12"th x 36"h	580.00	lf		Included	$0
	8	Elev Pit Walls - 12"th x 5'h	34.00	lf		Included	$0
	9	GB (ext) - 1-2"th x 7'-4"h (detail 3220)	172.00	lf		Included	$0
	10	GB (ext) - 1-2"th x 10'-4"h (detail 3220)	46.00	lf		Included	$0
	11	GB (ext) - 1-2"th x 12'-4"h (detail 3220)	206.00	lf		Included	$0
	12	GB (ext) - 1-2"th x 17'-4"h (detail 3220)	146.00	lf		Included	$0
	13	GB (ext) - 1-2"th x 3'-4"h (detail 3221)	206.00	lf		Included	$0
	14	GB@Pool, 2'-0" x 2'-0"	285.00	lf		Included	$0
	15	GB@Pool, 3'-0" x 3'-0"	379.00	lf		Included	$0
	16	Pump Pit - labor and material	1.00	allow	$45,000.00		$45,000
	17	Surge Tank for Competition Pool - labor and material	1.00	allow	$25,000.00		$25,000
	18	Surge Tank for Leisure Pool - labor and material				N/A	$0
	19	Runnout Tank for waterslide - labor and material				w/ Waterslide	$0
	20	Waterslide Foundations				w/ Waterslide	$0
	21	A&P's Concrete Foreman	2.00	mths	$8,833.20		$17,666
	22	Reinforcing Steel - Material	43.88	tons		Included	$0
	23	Reinforcing Steel - labor	43.88	tons		Included	$0
	24	Unloading, moving rebar	2.00	mths	$2,500.00		$5,000
	25	Void Form for GB - material	1.00	ls		Included	$0
	26	Void Form for GB - labor	1.00	ls		Included	$0
	27	Concrete Material	680.45	cy		Included	$0
	28	Additives for concrete	680.45	cy		Included	$0

Adolfson & Peterson Construction

Central Denver Recreation Center

Detailed Cost Estimate and Budget Control Document

Bid Package #1 - GMP

	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
03 11 00	29	Pumping	680.45	cy		Included	$0
	30	Short load/off hour deliveries	680.45	cy		Included	$0
	31	Concrete accessories	680.45	cy		Included	$0
	32	Concrete blankets	2054.00	lf	$5.00		$10,270
03 11 00 Total						**$647,936**	
03 30 05	**Concrete Materials**						
	1	Sitework - Gray concrete				w/ Site Conc	$0
	2	Caissons				W/ Caissons	$0
	3	Pier caps, footings, column pads, grade beams, columns - material				w/ Foundations	$0
	4	SOV - material				w/ Slabs	$0
	5	SOD - material				w/ Slabs	$0
	6	Short load/off hour deliveries				w/ Conc	$0
	7	Fibermesh				w/ Conc	$0
	8	Additives for concrete flatwork				w/ Conc	$0
	9	CONCRETE PUMP, fnd & slabs				w/ Conc	$0
03 30 05 Total						**$0**	
Division 03 - Concrete Total						***$647,936***	
Division 5 - Steel							
05 12 00	**Structural Steel**						
	1	BP#1 GMP - Steel				Below	$0
	2	Allowance to release steel fabricator for shop drawings & detailing	1.00	allow	$90,000.00		$90,000
05 12 00 Total						**$90,000**	
05 90 00	**Steel Erection & Coordination**						
	1	Steel Erection				w/ Steel Above	$0
05 90 00 Total						**$0**	
Division 5 - Steel Total						***$90,000***	
Division 6 - Carpentry							
06 18 00	**Glu-Laminated Construction**						
	1	Glu-Lam Construction				Not Included	$0
06 18 00 Total						**$0**	

Adolfson & Peterson Construction

Central Denver Recreation Center

Detailed Cost Estimate and Budget Control Document

Bid Package #1 - GMP

Item #		Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
Division 6 - Carpentry Total						*$0*	
Division 10 - Specialities							
10 11 16	**Marker Boards**						
	1	Markerboards or Display boards				Not Included	$0
10 11 16 Total						**$0**	
10 12 00	**Display Cases**						
	1	Display Cases				Not Included	$0
10 12 00 Total						**$0**	
Division 10 - Specialities Total						*$0*	
Division 13 - Special Construction							
13 11 00	**Swimming Pool**						
	1	Swimming Pool/Aquatics	1.00	ls		Below	$0
	2	Concrete/Pneumatically applied concrete pool structures	1.00	ls		Included	$0
	3	Competitive/Lap Pool - 8 lane, 25 yd pool (60'W x 75'-1"L)	1.00	ls	$1,120,372.80		$1,120,373
	4	Parapet gutter at starting & turning ends and rimflow on sides				Not indicated on plans or details.	$0
	5	Source capture system				N/A	$0
	6	Diving board, one meter spring boards and towers at deep end	2.00	ea		Included	$0
	7	Excavation/Backfill of pool structure				Moved to Earthwork	$0
	8	Competitive Timing System, 8-lane, with numeric scoreboard & touch pads	1.00	ls		Included	$0
	9	Pool Cover & storage reel for Lap Pool				Not indicated on plans or scope.	$0
	10	Starting blocks with anchors	1.00	ls		Included	$0
	11	Lane lines, floating with storage reel and cover	1.00	ls		Included	$0
	12	Backstroke pennant flag lines	1.00	ls		Included	$0
	13	Recall rope with stanchions and anchors	1.00	ls		Included	$0
	14	Leisure Pool, 3,100 sqft of water surface area	1.00	ls	$813,050.00		$813,050
	15	Skimmer recirculation	1.00	ls		Included	$0
	16	Source capture system				N/A	$0
	17	Excavation/Backfill of pool structure				w/ Earthwork	$0
	18	Lap lanes, 3 each	1.00	ls		Included	$0
	19	Water Slide, runnout decel lane - approx. 18'h flume and 126 lf	1.00	ls	$338,350.00		$338,350
	20	Conc slide tower	1.00	ls		Included	$0
	21	Foundation for slide and tower	1.00	ls	$20,200.00		$20,200

Adolfson & Peterson Construction

Central Denver Recreation Center

Detailed Cost Estimate and Budget Control Document

Bid Package #1 - GMP

	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
13 11 00	22	Conc runnout tank for waterslide	1.00	ls		Included	$0
	23	Interactive play features	1.00	allow	$222,200.00		$222,200
	24	Pool Cover for Leisure Pool				Not indicated on plans or scope.	$0
	25	Current Channel	1.00	ls		Included	$0
	26	Zero-depth entry	1.00	ls		Included	$0
	27	Pump Pit in Pool Mech Room				w/ Concrete	$0
	28	Surge Tank for Leisure Pool - labor and material				Not required for skimmer recirc	$0
	29	Surge Tank for Lap Pool - labor and material				w/ Concrete	$0
	30	Exhaust system at surge tank	1.00	ls	$5,555.00		$5,555
	31	Access hatch and ladder rungs for conc tanks	1.00	ls	$2,800.00		$2,800
	32	Underground and above ground swimming pool piping	1.00	allow	$354,510.00		$354,510
	33	FRP hair/lint strainers	1.00	ls		Included	$0
	34	Recirculation pumps	1.00	ls		Included	$0
	35	Regenerative media filtration system	1.00	ls		Included	$0
	36	UV disinfection system	1.00	ls		Included	$0
	37	Heating: pool boilers	1.00	ls		Included	$0
	38	Chemical controllers	1.00	ls		Included	$0
	39	Chemical feed pumps	1.00	ls		Included	$0
	40	Quartz aggregate plaster finish	1.00	ls		Included	$0
	41	Tile to include: water line, lane lines, wall targets, depth markers	1.00	ls		Included	$0
	42	Deck Equipment	1.00	ls		Included	$0
	43	Swimming Pool Safety Equipment	1.00	ls		Included	$0
	44	Swimming Pool Maintenance Equipment	1.00	ls		Included	$0
	45	ADA pool lift with anchor	1.00	ea		Included	$0
	46	Grab rails and hand rails associated with pool	1.00	ls		Included	$0
	47	Conc housekeeping pads for pool equipment, pumps	800.00	sf	$6.00		$4,800
	48	Pool, MEP coordination, layout	7.00	mths	$4,156.80		$29,098
	49	Electrical interlocking of pool equipment				w/ Elec	$0
	50	Commissioning, start-up and owner training	1.00	ls		Included	$0
	51	Permit, Dept of Health	1.00	ls	$1,500.00		$1,500
	52	Motor starters, disconnects and VFD's	7.00	ea	$5,772.15		$40,405
	53	Water to fill pools, 1 time for testing	318420.00	gal	$0.03		$9,553
	54	Caulking at perimeter	551.00	lf	$2.50		$1,378
	55	Lifeguard chairs				FF&E per WTI's RFI Response	$0
13 11 00 Total						**$2,963,771**	
Division 13 - Special Construction Total						***$2,963,771***	

Adolfson & Peterson Construction

Central Denver Recreation Center

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Bid Package #1 - GMP

Item #		Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
Divsision 23 - HVAC							
23 00 00	**Heating, Ventilating and Air Conditioning**						
	1	BP#1 - Pool Dehumidification Units - Rec Center				Below	$0
	2	PDU-1 & 2 - purchase of equipment only	1.00	ls	$409,080.64		$409,081
	3	Air flow measuring station on exhaust air (237301.2.01	1.00	ls		Included	$0
	4	Warranty - 4 yr on drive line and 10 yr on gas fired heat exch	1.00	ls		Parts warranty only	$0
	5	Owner training - 1/2 day	1.00	ls		Included	$0
	6	Labor to install with HVAC System Below				w/ HVAC	$0
	7	Hoisting for PDU's				w/ HVAC	$0
23 00 00 Total						**$409,081**	
Divsision 23 - HVAC Total						***$409,081***	
31							
31 00 00	**Earthwork**						
	1	Earthwork	1.00	sub	$596,836.24		$596,836
	2	Mobilization	1.00	ls		Included	$0
	3	Sawcut and dispose of existing Asphalt	44820.00	sf		Included	$0
	4	C & G	525.00	lf		Included	$0
	5	Remove and dispose of existing concrete wall	1.00	ls		Included	$0
	6	Sidewalk/Concrete pavement	7100.00	sf		Included	$0
	7	Light Pole bases	1.00	ea		Included	$0
	8	Medium/Large trees including stumps	3.00	ea	$615.00	City requires registered tree removal company	$1,845
	9	Remove existing debris	1.00	ls		Included	$0
	10	Remove existing chainlink fencing	930.00	lf		Included	$0
	11	Rock Demo				Not Anticipated at this time	$0
	12	Blasting				Not Anticipated at this time	$0
	13	Rock removal per ton				Not Anticipated at this time	$0
	14	Traffic control	3.00	day		Included	$0
	15	Vermin removal				Not Anticipated at this time	$0
	16	Pothole or utility locates for existing utilities needed for other trades	1.00	ls	$5,000.00		$5,000
	17	Strip topsoil and stockpile onsite	300.00	cy		Included	$0
	18	Overlot grading	263.00	cy		Included	$0
	19	Mass Excavation and export of soils	12290.00	cy		Included	$0
	20	Shoring excavation support	3575.00	sf		Included	$0
	21	Remove and dispose top 3' shoring	140.00	lf		Included	$0
	22	Moisture treat & compact, 3' depth, under SOG to 95%	1.00	ls		Included	$0
	23	Moisture treat & compact, 3' depth, under site walls to 95%	1.00	ls		Included	$0

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Central Denver Recreation Center

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Bid Package #1 - GMP

	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
31 00 00	24	Backfill Pool subgrade after caissons				Included	$0
	25	Place 12" gravel and filter fabric at pool slab	11426.00	sf		Included	$0
	26	Backfill with treated onsite material at pool walls	1550.00	cy		Included	$0
	27	Import / backfill with treated onsite material at foundation	2000.00	cy		Included	$0
	28	Temp excavation support ramp	1.00	ea		Included	$0
	29	Load / export/ dispose pier spoils	1.00	ls		Included	$0
	30	Building foundation excavation and backfill	1.00	ls		Included	$0
	31	Site wall excavation and backfill	670.00	lf		Included	$0
	32	Site seat wall excavation and backfill	70.00	lf		Included	$0
	33	Place 10 mil Steggo vapor barrier under SOG sand (1" sand, VP, 3" sand)	32041.30	sf	$0.30	Excluded by Earthwork Sub	$9,612
	34	Rough grade for asphalt, site concrete, & landscape	96514.00	sf		Included	$0
	35	Import an place topsoil	1.00	ls		Included	$0
	36	Haul off concrete spoils	47.00	cy	$47.00		$2,209
	37	Hand excavation	96.00	hr	$54.54		$5,236
	38	Protection of layout and replcm't as needed	1.00	ls	$1,704.00		$1,704
31 00 00 Total						**$622,442**	
31 25 00		**Erosion and Sedimentation Controls**					
	1	Erosion Control	1.00	sub	$89,000.00	89000	$89,000
	2	Vehicle tracking gravel 8" - 20' x 50'	1.00	ls		Included	$0
	3	Silt fence around site	1482.00	lf		Included	$0
	4	Additional silt fence for stockpiles	100.00	lf		Included	$0
	5	Inlet filters	8.00	ea		Included	$0
	6	Replacement of inlet filters as needed	9.00	ea	$285.00		$2,565
	7	Protect excavations from run-off	1.00	ls		Included	$0
	8	Remove sediment deposits after run-off	1.00	ls		Included	$0
	9	Install concrete washout pit	1.00	ls		Included	$0
	10	Road base/gravel at compound & staging area 6" deep	6000.00	sf		Included	$0
	11	Maintain erosion control during proj	1.00	ls		Included	$0
	12	Engineered stormwater management permit (Good for 1 year)	2.00	ea	$750.00		$1,500
	13	Engineered stormwater management engineering	1.00	ls	$3,500.00		$3,500
	14	Refresh vehicle tracking pad during construction	5.00	ea	$400.00		$2,000
	15	Remove vehicle tracking pad prior to asphalt	1.00	ea	$1,200.00		$1,200
	16	Concrete washout, maintenance, clean-up	7.00	mth	$2,400.00		$16,800
	17	Water truck for dust control				w/ Earthwork	$0
	18	Street cleaning as needed	9.00	day	$300.00		$2,700
	19	Winter control/protection				N/A	$0
	20	Snow/frost/mud/water removal				N/A	$0

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Central Denver Recreation Center

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	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
31 25 00	21	Truck wash-off location (excavate/backfill pit & set precast grate)				Not Anticipated at this time	$0
	22	Erosion control blanket				Not Anticipated at this time	$0
	23	Haybales				Not Anticipated at this time	$0
		Check dams				Not Anticipated at this time	$0
31 25 00 Total						**$119,265**	
31 41 00	**Shoring**						
	1	Temporary Shoring	1.00	sub	$122,527.50		$122,528
	2	Mobilization	1.00	ls		Included	$0
	3	Temporary soil nail wall along Josephine and a portion of Colfax	3850.00	sf		Included	$0
	4	Temporary soil nail wall along east side of pool	1000.00	sf		Included	$0
	5	Engineered drawings	1.00	ls		Included	$0
	6	Permit	1.00	ls	$1,500.00		$1,500
31 41 00 Total						**$124,028**	
31 09 13	**Dewatering**						
	1	Materials Management Plan:	1.00	ls		All scope related to dewatering are an allowance.	$0
	2	Project specific pollution insurance coverage	1.00	ls	$47,000.00	Refer to Scope of Work Allowance for more info.	$47,000
	3	Environmental consulting work	1.00	ls		Below	$0
	4	Environmental summary / risk review	1.00	ls	$4,725.00		$4,725
	5	Ground water samplings, 2 per well	1.00	ls	$4,095.00		$4,095
	6	Remediation activities discharging to surface water permit	1.00	ls	$1,825.00	$5,000 paid by Purchase Order from City	$1,825
	7	Remediation activities management plan prep and submittal	1.00	ls	$4,725.00		$4,725
	8	Drill and install piezometers for monitoring ground water levels during dewatering				Assuming use exist montioring wells	$0
	9	Environmental Montitoring Compliance Sampling	1.00	ls		Below	$0
	10	Weekly discharge water sampling (effluent only)	24.00	ea	$1,254.75		$30,114
	11	Weekly discharge water sampling (influent only)	4.00	ea	$682.50		$2,730
	12	Quarterly discharge water sampling (influent only)	1.00	ea	$1,044.75		$1,045
	13	Data compilation of weekly test reports	24.00	ea	$204.75		$4,914
	14	Discharge monitoring report prep & submittal	4.00	ea	$551.25		$2,205
	15	Environmental support as needed	1.00	ls	$5,250.00		$5,250
	16	Drilling for future monitoring wells				By City	$0
	17	All wells that are in the way of the structure will be decommissioned by City				By City	$0
	18	Dewatering				Below	$0
	19	Delivery, hauling & pick-up for dewatering equipment	1.00	ls	$4,929.00		$4,929
	20	Installation, removal and services	1.00	ls	$29,462.00		$29,462

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Central Denver Recreation Center

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Bid Package #1 - GMP

	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
31 09 13	21	Monthly rental of equipment	6.00	mth	$26,120.00		$156,720
	22	Sales items - consumables	1.00	ls	$36,124.00		$36,124
	23	Additional carbon & sand to deal with potential shortened life span of filter materials	1.00	ls	$1,576.00		$1,576
	24	Test carbon and potentially dispose of as hazardous materials (allow 2,200 lbs)	1.00	ls	$4,400.00		$4,400
	25	Emerg standby generator to be used if power is out				May be able to wire to site power if available	$0
	26	Daytime manning for 1 man & truck, 14 hours, first 7 day shake out	7.00	days	$1,260.00		$8,820
	27	Nighttime manning, 2 men & truck, 14 hours first 7 day shake out	7.00	days	$1,960.00		$13,720
	28	Nightime manning & weekend manning for 1 man & truck, 10 hrs/day for 25 weeks - 2 days per week (8 hours on site & 2 hours drive time) - intention is to have someone monitor it overnight one day during the week and one of the weekend nights to have intermittment inspections of operation & to make sure all filters are maintained regularly	500.00	hrs	$90.00		$45,000
	29	Maintenance time & materials for every 250 hrs of operation	17.00	ea	$360.00		$6,120
	30	Fuel consumption on generators (assumed 168 hrs out of the 6 month period at 1.5 gallons per hour)	252.00	gal	$3.25	May be able to wire to site power if available	$819
	31	Chemical injection with sodium hypochlorite (materials provided by Environmental Consultant to the dewatering sub. Injection to take place during scheduled visits per above)	1.00	ls	$250.00	Service must be provided by City	$250
	32	Treatment and disposal of bore hole flush water, waste fluids, cuttings	38.50	yards	$20.00		$770
	33	Excavator to deal with residual perched water in clay layers	1.00	ls	$2,000.00		$2,000
	34	Surveying to locate components of system	1.00	ls	$1,200.00		$1,200
	35	Heat trace & electrical consumption for exposed dewatering lines	1.00	ls	$3,000.00		$3,000
	36	120 volt service & tank heaters	1.00	ls		Included	$0
	37	Asbestos Awareness Training for Supt, PM, & PE	1.00	ls	$1,500.00		$1,500
	38	Contingency on Environmental Work & Dewatering Process-10%	0.10	%	$425,037.75		$42,504
31 09 13 Total						**$467,542**	
31 63 29	**Drilled Concrete Piers**						
	1	BP#1 - Rec Center				Below	$0
	2	Drilled Piers for Recreation Center & Pools	1.00	ls	$515,000.00		$515,000
	3	Mobilization	1.00	ls		Included	$0
	4	P1 - 18" dia @ Rec Center Foundation	30.00	ea		Included	$0

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	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
31 63 29	5	P1 - 18" dia @ Pools	129.00	ea		Included	$0
	6	P2 - 24" dia	31.00	ea		Included	$0
	7	P3 - 48" dia	12.00	ea		Included	$0
	8	Drilling through overburden for piers at lap pool deep end	360.00	lf	$9.00		$3,240
	9	Drill & epoxy dowels for piers drilled through overburden	160.00	ea	$70.00		$11,200
	10	Piers to support pool deck on PL110				See Add Alternates	$0
	11	Casing for drilled piers				See Add Alternates	$0
	12	Hole protection	202.00	ea	$25.25		$5,101
	13	Hoist rebar cages in hole	202.00	ea		Included	$0
	14	Sonotube @ top of pier 24" - material	606.00	lf	$3.75		$2,273
	15	Arcvoid for piers	202.00	ea	$29.00		$5,858
	16	Install arcvoid for piers	202.00	ea	$12.00		$2,424
	17	Labor to pour caissons	1.00	ls		Included	$0
	18	Move spoils to central stockpile	794.40	cy		Included	$0
	19	Rebar material	92.17	tns		Included	$0
	20	Install rebar	92.17	tns		Included	$0
	21	Concrete Material	794.40	cy		Included	$0
	22	Concrete pump	25.25	days		Included	$0
	23	Concrete accessories	202.00	ea		Included	$0
31 63 29 Total						**$545,095**	
31 Total						***$1,878,371***	
33							
33 10 00	**Water Utilities**						
	1	Water Utilities	1.00	sub	$347,858.77		$347,859
	2	Pothole and utility locate for water service connections	1.00	ls		Included	$0
	3	8" PVC water line	323.00	lf		Included	$0
	4	8" fittings	3.00	ea		Included	$0
	5	8" Gate valve	1.00	ea		Included	$0
	6	Fire Hydrant complete with 8" Tee	1.00	ea		Included	$0
	7	Fire Hydrant complete with 12" Tee	2.00	ea		Included	$0
	8	12"x8" cut in tee	1.00	ea		Included	$0
	9	Cut in 12" gate valve	2.00	ea		Included	$0
	10	1" irrigation stub	78.00	lf		Included	$0
	11	1.5" waterline	41.00	lf		Included	$0
	12	3" domestic water service (with meter)	1.00	ls		Included	$0
	13	4" fireline	38.00	lf		Included	$0
	14	6" Fireline to first flange inside building	102.00	lf		Included	$0

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	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
33 10 00	15	Cut and cap existing domestic services at main	2.00	ea		Included	$0
	16	Cut and cap existing fireline at main	1.00	ea		Included	$0
	17	Remove existing main	25.00	lf		Included	$0
	18	Flow fill	520.00	cy		Included	$0
	19	Export trench spoils				Included	$0
	20	Chlorine & pressure test				Included	$0
	21	Asphalt Utility patching	1.00	ls		Included	$0
	22	Concrete utility patching	1.00	ls		Included	$0
	23	Barricades/traffic control	15.00	days		Included	$0
33 10 00 Total						**$347,859**	
33 30 00	**Sanitary Sewerage Utilities**						
	1	Sanitary Sewer Utilities	1.00	sub	$42,924.35		$42,924
	2	Pothole and utility locate for sanitary sewer service	1.00	ls		Included	$0
	3	4" SDR 35	21.00	lf		Included	$0
	4	8" SDR 35	90.00	lf		Included	$0
	5	4" Cleanouts	1.00	ea		Included	$0
	6	8" connect to existing main	1.00	ea		Included	$0
	7	Flow fill	1.00	ls		Included	$0
	8	48" dia manhole	1.00	ea		Included	$0
	9	Remove and replce curb and gutter	40.00	lf		Included	$0
	10	Remove and replace pavement	150.00	sf		Included	$0
	11	Export trench spoils	1.00	ls		Included	$0
	12	Barricades/traffic control	4.00	day		Included	$0
33 30 00 Total						**$42,924**	
33 40 00	**Storm Drainage Utilities**						
	1	Storm Drain Utilities	1.00	sub	$374,766.42		$374,766
	2	Mobilization	1.00	ea		Included	$0
	3	12" CL III RCP	47.00	lf		Included	$0
	4	15" CL III RCP	176.00	lf		Included	$0
	5	18" CL III RCP	230.00	lf		Included	$0
	6	8" SDR-35 Storm sewer with fittings	242.00	lf		Included	$0
	7	6" SDR-35 Storm sewer with fittings	489.00	lf		Included	$0
	8	6" landscape drain	480.00	lf		Included	$0
	9	48" dia manhole	1.00	ea		Included	$0
	10	60" dia manhole	3.00	ea		Included	$0
	11	Type R 5' inlet	1.00	ea		Included	$0
	12	Type C inlet w/ grate	3.00	ea		Included	$0

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	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
33 40 00	13	15" Nyloplast inlet	1.00	ea		Included	$0
	14	12" Nyloplast inlet	4.00	ea		Included	$0
	15	Tie into existing structure	1.00	ea		Included	$0
	16	Remove existing inlet	1.00	ea		Included	$0
	17	Underground Stormtech SC-740 detention system	1.00	ls		Included	$0
	18	4" slotted rain garden underdrain pipe	320.00	lf		Included	$0
	19	30 mil pvc geomembrane liner and filter media	5981.00	sf		Included	$0
	20	Export trench spoils	1.00	ls		Included	$0
	21	Inlet protection	9.00	ea	$285.00		$2,565
	22	Locate existing utilities	1.00	ls		Included	$0
	23	Flowfill	1.00	ls		Included	$0
	24	Concrete utility patching	150.00	sf		Included	$0
	25	Barricades/traffic control	5.00	day		Included	$0
33 40 00 Total						**$377,331**	
33 46 00	**Subdrainage**						
	1	Building perimeter drainage system	1.00	sub	$24,664.50		$24,665
	2	- 4" pipe filter fabric and gravel				Included	$0
	3	Building under drainage system				Not Included	$0
33 46 00 Total						**$24,665**	
33 Total						***$792,779***	
Grand Total							**$7,281,617**

Dewatering & Environmental Assumptions, Qualifications & Clarifications for GMP dated June 4th, 2015

Central Denver Recreation Center – A&P Job #6992

1. This GMP proposal assumes that no ACM (Asbestos Containing Materials) are present on the site regardless of the reference in the MMP (Materials Management Plan) indicating the potential of ACM in the area generally identified as the Dog Park. Any ACM remediation or removal is excluded from the GMP. Any ACM encountered would be considered a differing site condition under the terms of the contract and procedures followed would be in compliance with the MMP Responsibility Matrix and notice provisions in the contract.

2. The GMP does not include any costs for hazardous waste removal or remediation, or any demobilization or remobilization associated with hazardous waste discovery, if any is required.

3. A&P has directed our proposed Environmental firm, ERM, and our proposed dewatering firm, Rain for Rent, to assume a flow rate of 20 GPM based on information provided by the City's Groundwater Geologist firm (Kumar & Associates), and which is consistent with ERM's experience in the area. The GMP, the permit applications, and the dewatering system have been designed around this flow rate, which could accommodate no more than 2 influent events of up to 50 GPM continuing for no more than 6 hours without requiring a significant redesign of the dewatering system and an increase in the GMP.

4. A&P has included a project specific pollution liability policy in the GMP which will cover the entire project including A&P and the Subcontractors. The GMP includes $47,000 for this policy. Should no claims arise during the construction period, warranty period or Statute of Limitations, any deductible cost not consumed due to claims associated with the pollution coverage can be refunded to the City.

5. A&P has assumed that the dewatering permit can be secured within 6 weeks of submittal of the Application which will be submitted within 2 weeks of the Notice to Proceed issued by the City for the first Phase of work. A&P will use the services of ERM for filling out the application and assisting with securing this State permit with the CDPHE.

6. A&P has assumed that the dewatering system will need to be in operation 24 hours per day, 7 days per week, from mid-November of 2015 through mid-May of 2016. This is based on the need to have it in operation for approximately 2 weeks to tune the filtering/treatment process before full excavation can commence below the water table. The system has been assumed to be in place after this tuning process from the time the excavation commences for the pool surge tank and pool pump pit being constructed by the foundation contractor until the lap pool underground piping is installed, mat slab is poured, pool walls are poured and the walls are backfilled above the water table by the aquatics subcontractor.

7. A&P has assumed the water table will not vary materially from the approximate 15' depth from the south end grade that was indicated by the geotechnical report provided by Kumar & Associates.

8. A&P has assumed that two of the currently existing monitoring wells can be utilized as piezometers during the dewatering period for taking measurements of the depth to the water table if coordinated with the City. No costs for constructing new piezometers has been included in the GMP.

9. A&P has assumed that all work associated with decommissioning existing groundwater monitoring wells will be performed by a 3rd party working directly for the City. A&P has assumed that construction of new groundwater monitoring wells will be constructed to State standards by a 3rd party working directly for the City and A&P's only involvement would be incorporating any of these wells into the slabs of the building. That could entail constructing a concrete vault that gives a secure space for the top of the

monitoring well pipe and the locking cap that gets installed on the top of it. A&P has assumed that these construction details will be provided by the Architect of Record as part of the final design on the contract documents, should a vault be needed for the wells. The cost for monitoring well vaults is not included in the GMP estimate for Phase I, but would become a part of the Phase II GMP estimate if those are included in the final design of the facility. The slab on grade work is part of Phase II and that is when the wells would need to be coordinate with design and construction.

10. A&P has assumed that the MMP Responsibility Matrix will govern over any discrepancies that exist within the MMP as to responsibilities that are either delineated in the MMP or were silent as to the responsibility.

11. The GMP Estimate is based on the assumption that all soils materials that are exported from the site will be dumped at a location within a 30 minute drive of the project site (75 minutes round trip trucking time). If it is determined the material needs to go to DAD's and the City is paying the dump fees, There will be an extra $30 charge per truck. We have not assumed an associated value with the excess dirt, nor were we planning to use it for a different site.

13. A&P has assumed that some reasonably foreseen rain/snow delays would likely occur during the dewatering process while performing this work during the winter months. A&P has included 2 weeks of rental/maintenance time above and beyond the end date of the pool wall backfill to account for a planned amount of lost time in the schedule and in the GMP estimate. Should the winter or weather conditions materially differ from what could be reasonably expected during the dewatering process at this site during those months, there are provisions in the contract for dealing with unusually severe weather.

14. The GMP estimate excludes remediation, removal or disposal of any subsurface site conditions, referred to in the MMP as "Unanticipated Materials", whether or not they are contaminated. If differing site conditions are encountered, a change order will be addressed according to the contract.

15. This proposal assumes that Bid Package Two work will be incorporated into this Contract by Contract Amendment and a Notice to Proceed for Bid Package Two work will be received by the date shown in the Schedule attached to the GMP proposal.

16. These are the assumptions that have been made by A&P's proposed dewatering sub, Rain for Rent ("RFR"):

> Given the ground water sample data provided in the MMP, we assume treatment for TSS, iron, manganese, and TRC.
>
> We expect to treat TSS through the use of weir tanks and bag filtration.
>
> We expect to treat Iron and Manganese through the use of aeration, chemical injection, and green sand plus.
>
> We expect to treat TRC through the use of Carbon media.
>
> We expect to use Carbon media to treat petroleum contaminants in the water.
>
> We expect that arsenic and selenium can be diluted out in our weir tanks. If additional filtration may need to be added, this is not currently included in the GMP.
>
> We expect the discharge from this project will go into storm drains that drain to the South Platte River.

Central Denver Rec Center
Responsibility Matrix[1]

	Owner [2]	Contractor
Monitoring Wells:		
Decommissioning of any existing monitoring wells prior to start of construction	**X**	
Installation of any new monitoring wells, locking well caps, New wells that are to be installed will be performed by an agent working directly for the City & County of Denver in compliance with requirements of the various authorities having jurisdiction over well construction of this nature.	**X** **X**	
A&P will coordinate the timing of the installation of the new wells that may fall within the interior slabs of the building and will incorporate the interface above the well into the construction in accordance with final design details that will be developed later by the design team to work with an interior condition. .		**X**
Permits:		
Temporary construction dewatering system during construction of the swimming pool:		**X**

[1] If there is a conflict between the Materials Management Plan and this Responsibility Matrix, or the Materials Management Plan is silent as to which party is responsible, then this Responsibility Matrix will govern the assignment of responsibility for specific tasks.

[2] Terracon, or any other environmental consultant that is retained by the Owner, will perform its scope of work entirely as a consultant retained by the Owner. A&P will not be liable for the actions or inactions of Terracon or other consultants retained by the Owner.

Colorado Discharge Permit System (CDPS) certification issued for the site by the CDPHE Water Quality Control Division (WQCD)		**X**
Application for CDPS General Permit: Construction Dewatering (COG070000), Remediation Activities Discharging to Surface Water (COG315000), or Remediation Activities Discharging to Groundwater (COG316000).		**X**
Groundwater Discharge and Treatment:		
6.2 Groundwater Quality: Monitor and treat ground water during dewatering activities associated with construction. The CDPS permit which will be secured, will dictate to what levels various metals and contaminates will be measured, monitored and treated. The proposed dewatering firm indicated that adjustments can be made with the filtration/treatment train in their system to handle most conditions with naturally occurring metals expected in the downtown Denver area.		**X**

6.4 Groundwater Leachate from Soil: If, during soil excavation and handling, liquid is generated then the groundwater will be properly handled to prevent cross contamination of surrounding soil and groundwater impacting the public stormwater system.		**X**
Stockpiled saturated soil will be placed on 6-millimeter plastic sheeting that is sloped to collect the groundwater in a plastic lined sump. The sump will be lined with gravel to prevent the plastic from moving out of place.		**X**
The groundwater that accumulates in the sump will be managed as potentially contaminated by collecting a sample for characterization.		**X**
The Owner's environmental professional will collect and test the sample.	**X**	
Based on the sample results, the accumulated groundwater will be disposed of off-site or discharged per Section 6.3 of the Materials Management Plan.		**X**
Direction will be provided by Owner should A&P's environmental firm encounter any contaminates that can't be treated to levels required of the dewatering permit by reasonable and customary measures typically used by the proposed dewatering firm.	**X**	
On Site Monitoring:		
Engage an environmental professional to provide on site monitoring of soil during intrusive activities such as excavating, grading, drilling, and trenching in the areas identified on Exhibits 4 and 5 of MMP. Environmental professional requires 48 hours written notification from A&P of scheduled activities requiring oversight.	**X**	

Caisson Spoils: Regardless of whether groundwater production occurs during caisson drilling, the environmental professional present on site will field screen the excess soil and/or slurry mixture from the caissons per Section 5.1 of the MMP and with CCoD will determine the waste management strategy.	**X**	
7.0 Contingency Plan For Unanticipated Materials: Although A&P has not included any cost in the GMP for these contingencies, due to the location and history of the site, the possibility exists that contaminated materials may be encountered other than those identified and specified for special management within this MMP. Therefore, the following contingency procedures will be enacted in the event such materials are encountered: Notify the City of potentially contaminated soil or material. An environmental professional will not be on site when work is conducted outside of the areas identified on Exhibits 4 and 5 of the MMP except as called to the site to address observed potential environmental concerns. If notified by A&P of potentially contaminated materials, outside of areas identified on Exhibits 4 and 5 of the MMP, the City will have an environmental professional onsite during earth disturbing activities in the immediate area of concern. If uncharacterized, potentially-contaminated materials (soil, groundwater, ACM, construction materials) are encountered (based on appearance, odors, or other	**X**	**X**

indications) when working outside of those areas identified on Exhibits 4 and 5 of the MMP, then the General Contractor shall immediately stop work in the immediate area of the discovery, immediately contact the City ((720) 460-1706), and continue work in other areas of the site.		**X**
If unknown or unidentified underground storage tanks, drums, odorous soils, stained soils, asbestos-cement pipe, transite, building debris, or waste materials are encountered during the project, then the General Contractor shall immediately stop work in the area of the discovery, immediately contact the City ((720) 460-1706), and continue work in other areas of the site.		**X**
The City's environmental professional will be called to the site. The waste will be left in-place and evaluated and/or sampled by the City's environmental professional to evaluate the potential environmental impacts and proper handling and management strategy.	**X**	
After waste is evaluated by the environmental professional, the City will give direction to A&P on how to proceed with work relating to the unanticipated materials.	**X**	
The City will provide direction to GC when the GC & its subcontractors are released to recommence work in the immediate affected area.	**X**	
ACS and ACM Remediation and Monitoring (Per Section 3.2 of SOP):		
If Asbestos Containing Materials (ACM) or Asbestos Containing Soil (ACS) are encountered, provide Certified Asbestos Building Inspector (CABI") per Section 3.1 of *Asbestos Containing Soil Management Standard Operating Procedures* (SOP) in Exhibit 8 and certified per Air Regulation No. 8:	**X**	

If ACM or ACS is encountered, provide as needed management of ACS or ACM per the SOP.	**X**	
Maintenance of all necessary site controls to prevent unauthorized entry into any regulated work area;		**X**
Removing non-salvageable, non-hazardous materials and equipment from the site and disposing at DADS in accordance with local, state and federal laws;		**X**
Soil Sampling and Lab Testing:		
Soil sampling and lab testing for disposal purposes.	**X**	
Soil sampling and lab testing for reuse on other City properties.	**X**	
Soil sampling and lab testing for reuse at 3rd party properties.		**X**
Disposal of non-hazardous materials at DADS:		
Set up disposal accounts	**X**	
Pay for disposal costs – billed directly by Waste Mgmt	**X**	
Transportation of non-hazardous materials to DADS		**X**
Disposal of hazardous materials (ACM, ACS) at DADS:		
Obtain hazardous waste generator ID, if applicable.	**X**	

Set up disposal accounts, as applicable	**X**	
Pay for disposal costs	**X**	
Transportation of hazardous materials to disposal site	**X**	

EXHIBIT ____ - PROJECT SCHEDULE
CENTRAL DENVER RECREATION CENTER

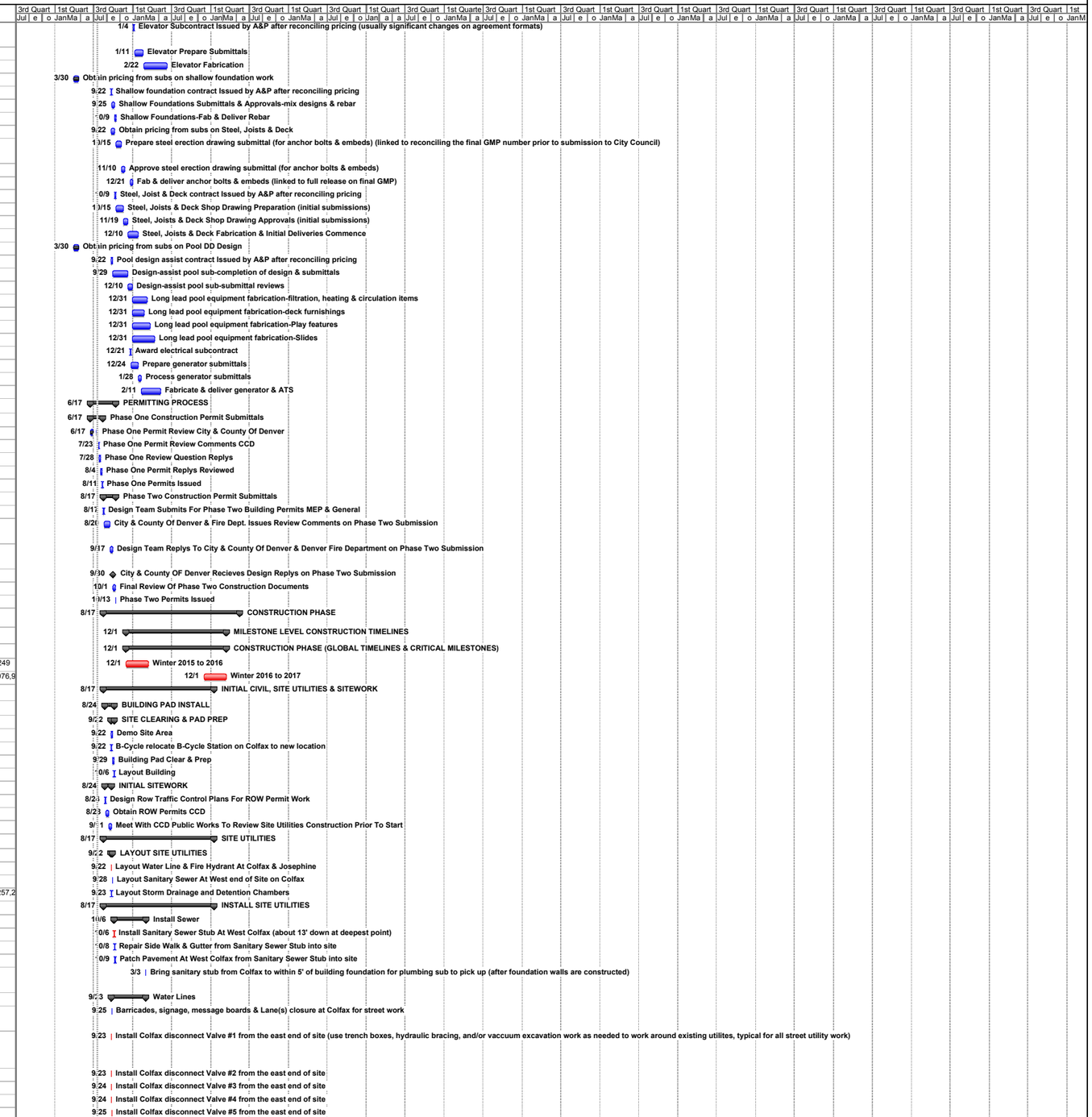
ID	RESP	LESTON	Task Name	Duration	Start	Finish	% Comp	Predecessors	Successors
1	**02-SUBS**		**CENTRAL DENVER RECREATION CENTER**	**633 days**	**Mon 12/15/14**	**Wed 5/17/17**	**7%**		
2	**00-BRS**		***PRE-CONSTRUCTION PHASE***	**390 days**	**Mon 12/15/14**	**Fri 6/10/16**	**31%**		
3	**00-BRS**		**PRE-CONSTRUCTION, PLAN REVIEWS & PERMITTING SCHEDULE**	**265 days**	**Mon 12/15/14**	**Fri 12/18/15**	**65%**		
4	**00-BRS**		***BRS ITEMS***	**230 days**	**Mon 12/15/14**	**Fri 10/30/15**	**72%**		
5	00-CACD		Full Notice to Proceed for Design to proceed to SD's	0 days	Mon 12/15/14	Mon 12/15/14	100%		6FS+1 day,184
6	00-BRS		Schematic Design	29 days	Tue 12/16/14	Fri 1/23/15	100%	5FS+1 day	11,69,7SS+24 days,10
7	00-BRS		Distribute floor plans to consultants	0 days	Fri 1/16/15	Fri 1/16/15	100%	6SS+24 days	8
8	00-BRS		Consultants finalize narratives & drawings for 100% SD from floor BRS' plans	3 days	Mon 1/19/15	Wed 1/21/15	100%	7	9
9	00-BRS		Consultant narratives & drawings for 100% SD sent back to BRS	0 days	Wed 1/21/15	Wed 1/21/15	100%	8	10FS+2 days
10	00-BRS		100% SD Report Published by BRS & Distributed to A&P by 3:00 p.m.	0 days	Fri 1/23/15	Fri 1/23/15	100%	6,9FS+2 days	69,11
11	00-BRS		Design Development Report Published & Distributed to A&P by 3:00 p.m.	75 days	Mon 1/26/15	Fri 5/8/15	100%	6,10,70FF+50 days	12SS+45 days,82,120,
12	00-BRS		50% Design Development Deliverable	0 days	Fri 3/27/15	Fri 3/27/15	100%	11SS+45 days	13,71,52,53,55,56,57,5
13	00-BRS		Construction Documents through completion of Permit/GMP Pricing set (milestones: CD Client Workshop #3-Tues, Aug 4th)	100 days	Mon 3/30/15	Fri 8/14/15	85%	12	27,25SS+80 days,26
14	00-CACD		Client comments on 50% DD doc's due to BRS & distributed to consultant team	1 day	Fri 4/17/15	Fri 4/17/15	100%	73FS+2 days	15,17FS+2 days
15	00-BRS		Design team review City comments & prepare responses to them	10 days	Mon 4/20/15	Fri 5/1/15	100%	14	16
16	00-BRS		Design team responses to City comments due back to BRS	0 days	Fri 5/1/15	Fri 5/1/15	100%	15	19
17	00-BRS		All documents for CPD submittal sent to HKS in PDF format (BRS, PK & HKS)	1 day	Wed 4/22/15	Wed 4/22/15	100%	14FS+2 days	19
18	00-CACD		City decisions required on any VE required as a result of 50% DD estimate (latter previously reconciled & reviewed by Brett & the City)	1 day	Fri 5/8/15	Fri 5/8/15	100%	80	19
19	00-BRS		100% DD / Permit set for GMP Package #1 production process	15 days	Mon 5/11/15	Fri 5/29/15	100%	18,16,17	22,20SS+10 days
20	00-BRS		100% DD / Permit set final background models/CAD Files shared	1 day	Mon 5/25/15	Mon 5/25/15	100%	19SS+10 days	21FS+1 day
21	00-BRS		100% DD / Permit set all PDF's to BRS by end of day	1 day	Wed 5/27/15	Wed 5/27/15	100%	20FS+1 day	22
22	00-BRS	M/S	100% DD / Permit set for GMP Package #1 published	0 days	Fri 5/29/15	Fri 5/29/15	100%	19,21	83,23
23	00-BRS		100% DD / Permit set for GMP Package #1-two week extension requested by BRS (milestones: Drwg & spec T of C, Revit models & CAD's to BRS by 6/8, consultant PDF's to BRS End of Day 6/10)	10 days	Mon 6/1/15	Fri 6/12/15	100%	22	24
24	00-BRS	M/S	100% DD / Permit set for GMP Package #1 published (revised date)	0 days	Fri 6/12/15	Fri 6/12/15	100%	23	83FF
25	00-BRS	M/S	50% CD's deliverable-Internal coordination check set (milestones: CD Client Workshop #1-Tues 6/23-lights & pl fixt's, interiors & architecture, Workshop #2 Thurs 7/9-interiors & brick)	0 days	Fri 7/17/15	Fri 7/17/15	0%	13SS+80 days	28,27,26
26	00-BRS	M/S	CD-Permit/GMP Pricing Set-2 week extension requested by BRS (per 05/18/15 e-mails from Brett & Katie, this extension is not needed. Kept task, but reduced duration to zero days)	0 days	Fri 8/14/15	Fri 8/14/15	0%	13,25	27
27	00-BRS	M/S	**CD-Permit/GMP Pricing Set deliverable-Distributed to A&P by 5:00 p.m. (revised date)**	0 days	Fri 8/14/15	Fri 8/14/15	0%	13,25,26	28,110,175,64,67,63,12
28	00-BRS		Incorporate any early ASI's/bidder RFI's/ last addendum into the "for construction" set / final plan & specification QC process by BRS	20 days	Mon 8/17/15	Fri 9/11/15	0%	27,25	31
29	00-AHJ		Building Department State Fire Marshall Plan Review Process	30 days	Mon 8/17/15	Fri 9/25/15	0%	27	30
30	00-BRS		BRS Incorporate AHJ's plan review comments & issue ASI(s) associated with them	10 days	Mon 9/28/15	Fri 10/9/15	0%	29	31
31	00-BRS	M/S	"For Construction" consildated set of CD's-Distributed to A&P by 3:00 p.m.	0 days	Fri 10/9/15	Fri 10/9/15	0%	28,30	66,65,117,32
32	00-A & P		A&P reconcile ASI costs with proposed subs & City make final adjustments with their contingency portion prior to City Council 2nd reading	15 days	Mon 10/12/15	Fri 10/30/15	0%	31	117,116FF+35 days
33	**00-BRS**		***HKS ENGINEERING ITEMS FOR EARLY PACKAGE RELEASE***	**150 days**	**Mon 1/5/15**	**Mon 8/3/15**	**77%**		
34	00-BRS		Building footprint received from BRS	0 days	Mon 1/5/15	Mon 1/5/15	100%	6SS+15 days	35
35	00-BRS		HKS Work with BRS & StudioCPG to layout parking and site plan base	10 days	Tue 1/6/15	Mon 1/19/15	100%	34	36
36	00-BRS		HKS Prepare Concept Plan Submittal	5 days	Tue 1/20/15	Mon 1/26/15	100%	35	37
37	00-BRS		HKS Submit Concept Plan to Development Services	0 days	Mon 1/26/15	Mon 1/26/15	100%	36	38
38	00-CACD		City Review and Concept Plan Meeting	10 days	Tue 1/27/15	Mon 2/9/15	100%	37	39
39	00-BRS		HKS Prepare Development Plan and 80% Civil Construction Drawings	35 days	Tue 2/10/15	Mon 3/30/15	100%	38	40
40	00-BRS		HKS Deliverable-1st Submittal Development Plan & Civil CDs	0 days	Mon 3/30/15	Mon 3/30/15	100%	39	41
41	00-CACD		1st Submittal City Review Period	20 days	Tue 3/31/15	Mon 4/27/15	100%	40	43,42
42	00-BRS		HKS prepare erosion control plan preparation & approval process	20 days	Tue 4/28/15	Mon 5/25/15	100%	41	46
43	00-BRS		HKS Revise and Resubmit from City Comments on 1st submittal	11 days	Tue 4/28/15	Tue 5/12/15	100%	41	44
44	00-BRS		HKS Deliverable-2nd Submittal Development Plan & Civil CDs	0 days	Tue 5/12/15	Tue 5/12/15	100%	43	45,83FF
45	00-CACD		2nd Submittal-City Review Period	40 days	Wed 5/13/15	Tue 7/7/15	50%	44	47,46
46	00-CACD		City comments on erosion control plan	1 day	Wed 7/8/15	Wed 7/8/15	100%	42,45	128
47	00-BRS		HKS Revise and Resubmit from City Comments on 2nd submittal	5 days	Wed 7/8/15	Tue 7/14/15	10%	45	48,169
48	00-BRS		HKS Deliverable-3rd Submittal Development Plan & Civil CDs	0 days	Tue 7/14/15	Tue 7/14/15	0%	47	49
49	00-CACD		3rd Submittal City Review and Approval	10 days	Wed 7/15/15	Tue 7/28/15	0%	48	50
50	00-BRS		Submit Final Signed/Stamped Drawings	4 days	Wed 7/29/15	Mon 8/3/15	0%	49	63,64,65,66,67,111,12
51	**00-BRS**		***CRITICAL ITEMS FOR EARLY PACKAGE***	**100 days**	**Fri 3/27/15**	**Fri 8/14/15**	**0%**		
52	00-BRS		Deliverable-Mass Excavation/Over-excavation & soil reconditioning design	0 days	Fri 3/27/15	Fri 3/27/15	100%	12	112
53	00-BRS		Deliverable-Building Deep foundation system (including reinforcing & mix design) design	0 days	Fri 3/27/15	Fri 3/27/15	100%	12	112
54	00-BRS		Deliverable-Aquatics Deep foundation system (including reinforcing & mix design) design	0 days	Wed 4/1/15	Wed 4/1/15	100%	12FS+3 days	72
55	00-BRS		Deliverable-Soil nail design	0 days	Fri 3/27/15	Fri 3/27/15	100%	12	112
56	00-BRS		Deliverable-Sanitary Sewerage Design	0 days	Fri 3/27/15	Fri 3/27/15	100%	12	112
57	00-BRS		Deliverable-Storm Sewer Design	0 days	Fri 3/27/15	Fri 3/27/15	100%	12	112
58	00-BRS		Deliverable-Water (Denver Water Package) (based it off 1st City submittal)	0 days	Fri 8/14/15	Fri 8/14/15	0%	12,27	112
59	00-BRS		Deliverable-Pool Dehumidification Unit design (enough to put a PO out for the sole-sourced equipment)	0 days	Fri 3/27/15	Fri 3/27/15	100%	12	135,72
60	00-BRS		Deliverable-Design assist pool sub partial design	0 days	Fri 3/27/15	Fri 3/27/15	100%	12	155,72
61	00-BRS		Deliverable-Building Shallow Foundations design (including rebar & mix designs) (including the grade beams & walls as well)	0 days	Fri 3/27/15	Fri 3/27/15	100%	12	143,72
62	**00-BRS**		***BASIC DESIGN INFO NEEDED FOR 3RD PARTY UTILITY PROVIDERS***	**40 days**	**Fri 8/14/15**	**Fri 10/9/15**	**0%**		
63	00-BRS		Deliverable-Gas service needs for Xcel to release them for engineering work	0 days	Fri 8/14/15	Fri 8/14/15	0%	50,27	**254**
64	00-BRS		Deliverable-Electrical ductbank(s)	0 days	Fri 8/14/15	Fri 8/14/15	0%	50,27	**261**
65	00-BRS		Deliverable-Tele/data	0 days	Fri 10/9/15	Fri 10/9/15	0%	50,31	**256**
66	00-BRS		Deliverable-Cable TV	0 days	Fri 10/9/15	Fri 10/9/15	0%	50,31	**256**
67	00-BRS		Deliverable-Xcel Energy building loads to release them for engineering work	0 days	Fri 8/14/15	Fri 8/14/15	0%	50,27	**259**

EXHIBIT ____ - PROJECT SCHEDULE
CENTRAL DENVER RECREATION CENTER

ID	RESP	LESTON	Task Name	Duration	Start	Finish	% Comp	Predecessors	Successors
68	**00-BRS**		***A&P ESTIMATE ITEMS & CITY RELEASES***	**235 days**	**Mon 1/26/15**	**Fri 12/18/15**	**46%**		
69	00-A & P		A&P Prepare & Distribute SD Estimate & Schedule	15 days	Mon 1/26/15	Fri 2/13/15	100%	6,10	82,70
70	00-A & P		Team prepares & prices VE alternatives from estimate prepared from SD report	5 days	Mon 2/16/15	Fri 2/20/15	100%	69	11FF+50 days
71	00-A & P		A&P Prepare Initial GMP Estimate & reconcilation-3-1/2 weeks-early packge (tied to 1st City Submittal)	17 days	Mon 3/30/15	Tue 4/21/15	100%	12	114,83,72SS+4 days
72	00-A & P		A&P issue documents to subcontractors for bids & budgets after receipt of requested additional info that was not part of the 3/27 document issue	1 day	Fri 4/3/15	Fri 4/3/15	100%	71SS+4 days,54,61,60,59	73FS+6 days
73	00-A & P		A&P host Pre-bid meeting	1 day	Tue 4/14/15	Tue 4/14/15	100%	72FS+6 days	74FS+3 days,14FS+2 d
74	00-A & P		A&P/PPV review quantities of exterior envelope, GSF & raise red flags to BRS	1 day	Mon 4/20/15	Mon 4/20/15	100%	73FS+3 days	75
75	00-A & P		A&P deliver any self-performed work bids to Brett H.	1 day	Tue 4/21/15	Tue 4/21/15	100%	74	76,77
76	00-A & P		A&P provide copies of sub bids to Brett H.	1 day	Wed 4/22/15	Wed 4/22/15	100%	75	77FS+8 days
77	00-A & P		A&P deliver estimate to Brett H. to circulate to BRS & PPV	1 day	Tue 5/5/15	Tue 5/5/15	100%	75,76FS+8 days	78
78	00-A & P		PPV to reconcile estimates & design team to review estimate	2 days	Wed 5/6/15	Thu 5/7/15	100%	77	79FS-1 day
79	00-BRS		BRS & design consultants provide estimate comments to A&P by noon	1 day	Thu 5/7/15	Thu 5/7/15	100%	78FS-1 day	80FS-1 day,81
80	00-A & P		A&P & PPV meet & review reconciliation report & comments	1 day	Thu 5/7/15	Thu 5/7/15	100%	79FS-1 day	81,18
81	00-TEAM		A&P/Brett H./BRS/PPV meet to review estimate	1 day	Fri 5/8/15	Fri 5/8/15	100%	79,80	83
82	00-A & P		A&P Prepare & Distribute 100% DD Estimate & Schedule	20 days	Mon 5/11/15	Fri 6/5/15	100%	11,69	111
83	00-CACD		Negotiatate contract terms & GMP amount-A&P & Brett-4 weeks-early package	22 days	Mon 6/1/15	Tue 6/30/15	100%	71,44FF,22,81,24FF	84
84	**00-CACD**		**Get contract through City legal review process, to A&P for signature & into two City Council sessions-12 weeks-early package (BP #1)**	**59 days**	**Tue 6/30/15**	**Mon 9/21/15**	**18%**	**83**	**111,195SS,196SS,194 days,113SS+38 days,128SS+44**
85	00-CACD		Submit Form 43 (Brett)	0 days	Tue 6/30/15	Tue 6/30/15	100%		86
86	00-CACD		Enter to PeopleSoft and Receive Requisition Number (Contracts)	2 days	Wed 7/1/15	Thu 7/2/15	100%	85	87
87	00-CACD		Enter info to Alfresco (Contracts)	3 days	Fri 7/3/15	Tue 7/7/15	100%	86	88
88	00-CACD		PW Approval of Contract (Public Works)	1 day	Wed 7/8/15	Wed 7/8/15	100%	87	89
89	00-CACD		Email Alfresco Number to team (Contracts)	1 day	Thu 7/9/15	Thu 7/9/15	100%	88	90
90	00-CACD		Upload contract docs (Contracts)	1 day	Fri 7/10/15	Fri 7/10/15	100%	89	91
91	00-CACD		Review and Issue Draft (City Attorney)	2 days	Mon 7/13/15	Tue 7/14/15	0%	90	92
92	00-CACD		Review draft contract (Brett)	2 days	Wed 7/15/15	Thu 7/16/15	0%	91	93
93	00-CACD		Issue to A&P for Signing (City Attorney)	2 days	Fri 7/17/15	Mon 7/20/15	0%	92	94
94	00-A & P		A&P gather bonds from Willis, obtain Tom Horsting's (Senior VP's) signature & return signed contract (Tom Bailey)	5 days	Tue 7/21/15	Mon 7/27/15	0%	93	95,97
95	00-CACD		Agency Approval (Contracts)	3 days	Tue 7/28/15	Thu 7/30/15	0%	94	96,98FS+1 day
96	00-CACD		Prepare Ordinance Request (Contracts/PM)	2 days	Fri 7/31/15	Mon 8/3/15	0%	95	
97	00-CACD		File Ordinance Request (Council Liason)	1 day	Tue 7/28/15	Tue 7/28/15	0%	94	
98	00-CACD		City Council (Mon) (Council Liason)	1 day	Mon 8/3/15	Mon 8/3/15	0%	95FS+1 day	99FS+2 days
99	00-CACD		Council Committee (Every other Wed) (Council Liason)	0 days	Wed 8/5/15	Wed 8/5/15	0%	98FS+2 days	100FS+4 days
100	00-CACD		Mayor – Council (Tues) (Council Liason)	0 days	Tue 8/11/15	Tue 8/11/15	0%	99FS+4 days	101FS+2 days
101	00-CACD		File Bill w/ City Council (By Thurs Noon) (Council Liason)	0 days	Thu 8/13/15	Thu 8/13/15	0%	100FS+2 days	102FS+2 days
102	00-CACD		1st Reading @ City Council (Per Schedule) (Council Liason)	0 days	Mon 8/17/15	Mon 8/17/15	0%	101FS+2 days	103FS+5 days
103	00-CACD		2nd Reading @ City Council (Council Liason)	0 days	Mon 8/24/15	Mon 8/24/15	0%	102FS+5 days	104
104	00-CACD		File (City Recorder)	4 days	Tue 8/25/15	Fri 8/28/15	0%	103	105
105	00-CACD		Obtain Mayor's Signature – In (Mayor's Office)	3 days	Mon 8/31/15	Wed 9/2/15	0%	104	106
106	00-CACD		Obtain Mayor's Signature – Out (Mayor's Office)	6 days	Thu 9/3/15	Thu 9/10/15	0%	105	107
107	00-CACD		Obtain Auditor's Signature – In (City Auditor)	1 day	Fri 9/11/15	Fri 9/11/15	0%	106	108
108	00-CACD		Obtain Auditor's Signature – Out (City Auditor)	5 days	Mon 9/14/15	Fri 9/18/15	0%	107	109FS+1 day
109	00-CACD		City Issue NTP to A&P (Contracts)	0 days	Mon 9/21/15	Mon 9/21/15	0%	108FS+1 day	111
110	00-A & P		**Final GMP Estimate & reconcilation-5 weeks (based on permit set of CD's) - one week past point of BRS putting pencils down on the "for construction" set to finalize any last minute cost details for the GMP**	25 days	Mon 8/17/15	Fri 9/18/15	0%	27	115,151
111	00-CACD	M/S	**City Notice to Proceed to A&P-Early package**	0 days	Mon 9/21/15	Mon 9/21/15	0%	50,84,82,109	189,114,137,156,145,2
112	00-A & P		Bid-civil, deep foundations & sanitary/storm/water utilities work	10 days	Mon 3/30/15	Fri 4/10/15	100%	52,53,55,56,57,58	113
113	00-A & P		Review Bids, Interview Subs & Award-civil & deep foundations work	2 days	Mon 8/24/15	Tue 8/25/15	0%	112,84SS+38 days	114,125,130,131,132
114	00-A & P		Submittals & critical approvals-civil & deep foundations work	8 days	Tue 9/22/15	Thu 10/1/15	0%	71,113,111	204
115	00-CACD		Negotiatate contract & City Council-2 weeks-Overall GMP Contract	10 days	Mon 9/21/15	Fri 10/2/15	0%	110	116,151
116	00-CACD		Get contract into two City Council sessions-9 weeks-Overall GMP Contract	45 days	Mon 10/19/15	Fri 12/18/15	0%	115,32FF+35 days	117
117	00-CACD		**Full Notice to Proceed on Overall GMP Contract**	0 days	Fri 12/18/15	Fri 12/18/15	0%	116,31,32	120,160,159,161,162,1
118	**00-BRS**		***OTHER POTENTIAL GOOD OPTIONS FOR AN EARLY PACKAGE***	**90 days**	**Fri 8/14/15**	**Fri 12/18/15**	**0%**		
119	00-BRS		Deliverable-Pool shell design (enough info to put in with building foundations)	0 days	Fri 8/14/15	Fri 8/14/15	0%	11,27	299
120	00-BRS		Deliverable-Elevator design	0 days	Fri 12/18/15	Fri 12/18/15	0%	11,117	139
121	00-BRS		Deliverable-Steel Release for Shop Drawing Preparation	0 days	Mon 9/21/15	Mon 9/21/15	0%	11,27,111	147
122	00-BRS		Deliverable-Release Joists & Deck for Shop Drawing Preparation	0 days	Mon 9/21/15	Mon 9/21/15	0%	11,27,111	147
123	**02-SUBS**		**CRITICAL SUBMITTALS, APPROVALS & LONG LEAD ITEMS**	**315 days**	**Mon 3/30/15**	**Fri 6/10/16**	**6%**		
124	**02-SUBS**		***CRITICAL SUBMITTALS, APPROVALS & LONG LEAD ITEMS***	**315 days**	**Mon 3/30/15**	**Fri 6/10/16**	**6%**		
125	02-SUBS		Soil Nailing Engineering & Submittal Package Preparation-Soil nail sub needs 2 sets of stampec drawings, 1 set of stamped calculations, 1 wet stamped site survey & 1 wet stamped geotechnical report to complete their process for submission	10 days	Tue 9/22/15	Mon 10/5/15	0%	113,111	281,126
126	02-SUBS		Soil nail permit application review period	20 days	Tue 10/6/15	Mon 11/2/15	0%	125	275
127	00-A & P		A&P Prepare Application & Submit for APEN Dust Control Permit (Application submission serves as release to proceed)	5 days	Tue 9/8/15	Mon 9/14/15	0%	50,84SS+49 days	189,281
128	00-A & P		Crestone prepare SWMP Plan	5 days	Tue 9/1/15	Mon 9/7/15	0%	46,84SS+44 days	129
129	00-AHJ		CDPHE Review of SWMP Plan & Issue Stormwater Management Permit	10 days	Tue 9/8/15	Mon 9/21/15	0%	128	204,268
130	02-SUBS		Site Utilities Submittals & Approvals (Sanitary, Storm & Water)	15 days	Tue 9/15/15	Mon 10/5/15	0%	113,84SS+54 days	204,226,233
131	02-SUBS		Drilled Pier Concrete Mix Designs Submittals & Approvals	10 days	Tue 9/22/15	Mon 10/5/15	0%	113,111	134
132	02-SUBS		Drilled Pier Reinforcing Submittals & Approvals	10 days	Tue 9/22/15	Mon 10/5/15	0%	113,111	133,268
133	02-SUBS		Drilled Pier Reinforcing Fabrication (straight bars & hoops)	5 days	Tue 10/6/15	Mon 10/12/15	0%	132	134,268
134	02-SUBS		Drilled Pier Reinforcing Tie Cages on Site	10 days	Tue 10/13/15	Mon 10/26/15	0%	131,133	268
135	02-SUBS		Obtain pricing from vendors on PDU unit	18 days	Mon 3/30/15	Wed 4/22/15	100%	59	136
136	02-SUBS		Pool Dehumidification Unit Purchase Order Issued by A&P after reconciling pricing	3 days	Tue 9/22/15	Thu 9/24/15	0%	135,111	137
137	02-SUBS		Pool Dehumidification Unit Prepare Submittals & Process Submittals	25 days	Fri 9/25/15	Thu 10/29/15	0%	136,111	138
138	02-SUBS		Pool Dehumidification Unit Fabrication (assign PO to sucessful mechanical sub)	90 days	Fri 10/30/15	Thu 3/3/16	0%	137	684,683FS-4 days
139	00-A & P		Obtain pricing from subs on Elevators	10 days	Mon 12/21/15	Fri 1/1/16	0%	120	140

EXHIBIT ____ - PROJECT SCHEDULE
CENTRAL DENVER RECREATION CENTER

ID	RESP	LESTON	Task Name	Duration	Start	Finish	% Comp	Predecessors	Successors
140	00-A & P		Elevator Subcontract Issued by A&P after reconciling pricing (usually significant changes on agreement formats)	5 days	Mon 1/4/16	Fri 1/8/16	0%	139	141
141	02-SUBS		Elevator Prepare Submittals	30 days	Mon 1/11/16	Fri 2/19/16	0%	140	142
142	02-SUBS		Elevator Fabrication	80 days	Mon 2/22/16	Fri 6/10/16	0%	141	624
143	00-A & P		Obtain pricing from subs on shallow foundation work	18 days	Mon 3/30/15	Wed 4/22/15	100%	61	144
144	00-A & P		Shallow foundation contract Issued by A&P after reconciling pricing	3 days	Tue 9/22/15	Thu 9/24/15	0%	143,111	145
145	00-A & P		Shallow Foundations Submittals & Approvals-mix designs & rebar	10 days	Fri 9/25/15	Thu 10/8/15	0%	144,111	146
146	02-SUBS		Shallow Foundations-Fab & Deliver Rebar	5 days	Fri 10/9/15	Thu 10/15/15	0%	145	286
147	00-A & P		Obtain pricing from subs on Steel, Joists & Deck	13 days	Tue 9/22/15	Thu 10/8/15	0%	121,122	151
148	02-SUBS		Prepare steel erection drawing submittal (for anchor bolts & embeds) (linked to reconciling the final GMP number prior to submission to City Council)	18 days	Thu 10/15/15	Mon 11/9/15	0%	111,151	149
149	02-SUBS		Approve steel erection drawing submittal (for anchor bolts & embeds)	12 days	Tue 11/10/15	Wed 11/25/15	0%	148	150
150	02-SUBS		Fab & deliver anchor bolts & embeds (linked to full release on final GMP)	10 days	Mon 12/21/15	Fri 1/1/16	0%	149,117	294
151	00-A & P		Steel, Joist & Deck contract Issued by A&P after reconciling pricing	4 days	Fri 10/9/15	Wed 10/14/15	0%	147,110,115	152,148
152	02-SUBS		Steel, Joists & Deck Shop Drawing Preparation (initial submissions)	25 days	Thu 10/15/15	Wed 11/18/15	0%	151	153
153	02-SUBS		Steel, Joists & Deck Shop Drawing Approvals (initial submissions)	15 days	Thu 11/19/15	Wed 12/9/15	0%	152	154
154	02-SUBS		Steel, Joists & Deck Fabrication & Initial Deliveries Commence	35 days	Thu 12/10/15	Wed 1/27/16	0%	153	357
155	00-A & P		Obtain pricing from subs on Pool DD Design	18 days	Mon 3/30/15	Wed 4/22/15	100%	60	156
156	00-A & P		Pool design assist contract Issued by A&P after reconciling pricing	5 days	Tue 9/22/15	Mon 9/28/15	0%	155,111	157
157	02-SUBS		Design-assist pool sub-completion of design & submittals	52 days	Tue 9/29/15	Wed 12/9/15	0%	156	158
158	02-SUBS		Design-assist pool sub-submittal reviews	15 days	Thu 12/10/15	Wed 12/30/15	0%	157	159,160,161,162
159	02-SUBS		Long lead pool equipment fabrication-filtration, heating & circulation items	50 days	Thu 12/31/15	Wed 3/9/16	0%	158,117	485
160	02-SUBS		Long lead pool equipment fabrication-deck furnishings	40 days	Thu 12/31/15	Wed 2/24/16	0%	158,117	584,616
161	02-SUBS		Long lead pool equipment fabrication-Play features	60 days	Thu 12/31/15	Wed 3/23/16	0%	158,117	614
162	02-SUBS		Long lead pool equipment fabrication-Slides	75 days	Thu 12/31/15	Wed 4/13/16	0%	158,117	602
163	00-A & P		Award electrical subcontract	3 days	Mon 12/21/15	Wed 12/23/15	0%	117	164,261
164	02-SUBS		Prepare generator submittals	25 days	Thu 12/24/15	Wed 1/27/16	0%	163	165
165	02-SUBS		Process generator submittals	10 days	Thu 1/28/16	Wed 2/10/16	0%	164	166
166	02-SUBS		Fabricate & deliver generator & ATS	65 days	Thu 2/11/16	Wed 5/11/16	0%	165	694
167	**02-SUBS**		***PERMITTING PROCESS***	**85 days**	**Wed 6/17/15**	**Tue 10/13/15**	**12%**		
168	**02-SUBS**		**Phase One Construction Permit Submittals**	**42 days**	**Wed 6/17/15**	**Thu 8/13/15**	**29%**		
169	00-AHJ		Phase One Permit Review City & County Of Denver	15 days	Wed 6/17/15	Wed 7/22/15	60%	47	170
170	00-AHJ		Phase One Permit Review Comments CCD	3 days	Thu 7/23/15	Mon 7/27/15	0%	169	171
171	00-BRS		Phase One Review Question Replys	5 days	Tue 7/28/15	Mon 8/3/15	0%	170	172
172	00-AHJ		Phase One Permit Replys Reviewed	5 days	Tue 8/4/15	Mon 8/10/15	0%	171	173
173	00-AHJ		Phase One Permits Issued	3 days	Tue 8/11/15	Thu 8/13/15	0%	172	189,268,200
174	**02-SUBS**		**Phase Two Construction Permit Submittals**	**42 days**	**Mon 8/17/15**	**Tue 10/13/15**	**0%**		
175	00-BRS		Design Team Submits For Phase Two Building Permits MEP & General	3 days	Mon 8/17/15	Wed 8/19/15	0%	27	176
176	00-CACD		City & County Of Denver & Fire Dept. Issues Review Comments on Phase Two Submission	20 days	Thu 8/20/15	Wed 9/16/15	0%	175	177
177	00-BRS		Design Team Replys To City & County Of Denver & Denver Fire Department on Phase Two Submission	10 days	Thu 9/17/15	Wed 9/30/15	0%	176	178
178	00-CACD		City & County OF Denver Recieves Design Replys on Phase Two Submission	0 days	Wed 9/30/15	Wed 9/30/15	0%	177	179
179	00-CACD		Final Review Of Phase Two Construction Documents	8 days	Thu 10/1/15	Mon 10/12/15	0%	178	180
180	00-AHJ		Phase Two Permits Issued	1 day	Tue 10/13/15	Tue 10/13/15	0%	179	281
181	**02-SUBS**		***CONSTRUCTION PHASE***	**458 days**	**Mon 8/17/15**	**Wed 5/17/17**	**0%**		
182	**02-SUBS**		**MILESTONE LEVEL CONSTRUCTION TIMELINES**	**337 days**	**Tue 12/1/15**	**Wed 3/15/17**	**0%**		
183	**00-A & P**		***CONSTRUCTION PHASE (GLOBAL TIMELINES & CRITICAL MILESTONES)***	**337 days**	**Tue 12/1/15**	**Wed 3/15/17**	**0%**		
184	00-A & P		Winter 2015 to 2016	76 days	Tue 12/1/15	Tue 3/15/16	0%	5	185FS+186 days,249
185	00-A & P		Winter 2016 to 2017	75 days	Thu 12/1/16	Wed 3/15/17	0%	184FS+186 days	996,981,987,975,976,9
186	**02-SUBS**		**INITIAL CIVIL, SITE UTILITIES & SITEWORK**	**371 days**	**Mon 8/17/15**	**Mon 1/16/17**	**0%**		
187	**02-SUBS**		***BUILDING PAD INSTALL***	**33 days**	**Mon 8/24/15**	**Wed 10/7/15**	**0%**		
188	**02-SUBS**		**SITE CLEARING & PAD PREP**	**12 days**	**Tue 9/22/15**	**Wed 10/7/15**	**0%**		
189	02-SUBS		Demo Site Area	5 days	Tue 9/22/15	Mon 9/28/15	0%	111,127,173	191
190	00-CACD		B-Cycle relocate B-Cycle Station on Colfax to new location	3 days	Tue 9/22/15	Thu 9/24/15	0%	111	192
191	02-SUBS		Building Pad Clear & Prep	5 days	Tue 9/29/15	Mon 10/5/15	0%	189	192,276
192	02-SUBS		Layout Building	2 days	Tue 10/6/15	Wed 10/7/15	0%	191,190	268
193	**02-SUBS**		**INITIAL SITEWORK**	**24 days**	**Mon 8/24/15**	**Thu 9/24/15**	**0%**		
194	00-A & P		Design Row Traffic Control Plans For ROW Permit Work	4 days	Mon 8/24/15	Thu 8/27/15	0%	84SS+38 days	195
195	00-A & P		Obtain ROW Permits CCD	10 days	Fri 8/28/15	Thu 9/10/15	0%	194,84SS	196
196	00-A & P		Meet With CCD Public Works To Review Site Utilities Construction Prior To Start	10 days	Fri 9/11/15	Thu 9/24/15	0%	195,84SS	200,209
197	**02-SUBS**		***SITE UTILITIES***	**371 days**	**Mon 8/17/15**	**Mon 1/16/17**	**0%**		
198	**02-SUBS**		**LAYOUT SITE UTILITIES**	**5 days**	**Tue 9/22/15**	**Mon 9/28/15**	**0%**		
199	02-SUBS		Layout Water Line & Fire Hydrant At Colfax & Josephine	1 day	Tue 9/22/15	Tue 9/22/15	0%	111	201,226,210,200
200	02-SUBS		Layout Sanitary Sewer At West end of Site on Colfax	1 day	Mon 9/28/15	Mon 9/28/15	0%	196,209,111,173,199	204
201	02-SUBS		Layout Storm Drainage and Detention Chambers	2 days	Wed 9/23/15	Thu 9/24/15	0%	199	204,255,258,260,257,2
202	**02-SUBS**		**INSTALL SITE UTILITIES**	**371 days**	**Mon 8/17/15**	**Mon 1/16/17**	**0%**		
203	**02-SUBS**		**Install Sewer**	**108 days**	**Tue 10/6/15**	**Thu 3/3/16**	**0%**		
204	02-SUBS		Install Sanitary Sewer Stub At West Colfax (about 13' down at deepest point)	2 days	Tue 10/6/15	Wed 10/7/15	0%	201,130,129,114,218	205,219,207
205	02-SUBS		Repair Side Walk & Gutter from Sanitary Sewer Stub into site	2 days	Thu 10/8/15	Fri 10/9/15	0%	204	206SS+1 day
206	02-SUBS		Patch Pavement At West Colfax from Sanitary Sewer Stub into site	2 days	Fri 10/9/15	Mon 10/12/15	0%	205SS+1 day	226,268
207	02-SUBS		Bring sanitary stub from Colfax to within 5' of building foundation for plumbing sub to pick up (after foundation walls are constructed)	1 day	Thu 3/3/16	Thu 3/3/16	0%	204,335SS,231	340
208	**02-SUBS**		**Water Lines**	**116 days**	**Wed 9/23/15**	**Wed 3/2/16**	**0%**		
209	02-SUBS		Barricades, signage, message boards & Lane(s) closure at Colfax for street work	1 day	Fri 9/25/15	Fri 9/25/15	0%	196	200
210	02-SUBS		Install Colfax disconnect Valve #1 from the east end of site (use trench boxes, hydraulic bracing, and/or vaccuum excavation work as needed to work around existing utilites, typical for all street utility work)	1 day	Wed 9/23/15	Wed 9/23/15	0%	199	227,211SS,212
211	02-SUBS		Install Colfax disconnect Valve #2 from the east end of site	1 day	Wed 9/23/15	Wed 9/23/15	0%	210SS	212
212	02-SUBS		Install Colfax disconnect Valve #3 from the east end of site	1 day	Thu 9/24/15	Thu 9/24/15	0%	210,211	213SS,214
213	02-SUBS		Install Colfax disconnect Valve #4 from the east end of site	1 day	Thu 9/24/15	Thu 9/24/15	0%	212SS	214
214	02-SUBS		Install Colfax disconnect Valve #5 from the east end of site	1 day	Fri 9/25/15	Fri 9/25/15	0%	212,213	227,215



Adolfson & Peterson Construction

07-10-15 PRELIMINARY SCHEDULE
FOR RELEASE WITH BP #1 GMP & 100% DD's FOR BP #2

ID	RESP	LESTON	Task Name	Duration	Start	Finish	% Comp	Predecessors	Successors
215	02-SUBS		Stub water line into site to hydrant farthest east in Colfax from disconnect Valve #1 from east end of site	1 day	Mon 9/28/15	Mon 9/28/15	0%	214	216,231
216	02-SUBS		Stub 1-1/2" water line into site for future retail building disconnect Valve #1 from the east end of site	1 day	Tue 9/29/15	Tue 9/29/15	0%	215	217
217	02-SUBS		Stub 4" fire line into site for future retail building from disconnect Valve #2 from east end of site	2 days	Wed 9/30/15	Thu 10/1/15	0%	216	218
218	02-SUBS		Stub 6" water line into site from disconnect Valve #3 from the east end of site	2 days	Fri 10/2/15	Mon 10/5/15	0%	217	219,204
219	02-SUBS		Stub water line into site to west hydrant in Colfax from disconnect Valve #4 from east end of site	1 day	Thu 10/8/15	Thu 10/8/15	0%	218,204	220,231
220	02-SUBS		Stub 8" PVC line from Colfax main to starting point in Josephine from disconnect Valve #5 from east end of site	1 day	Fri 10/9/15	Fri 10/9/15	0%	219	224,221
221	02-SUBS		Patch Side Walk & Gutter at Colfax	2 days	Mon 10/12/15	Tue 10/13/15	0%	220	222
222	02-SUBS		Patch Paving At East Colfax Avenue	1 day	Wed 10/14/15	Wed 10/14/15	0%	221	223
223	02-SUBS	M/S	Open Colfax lane(s) that were closed for utility installation	0 days	Wed 10/14/15	Wed 10/14/15	0%	222	268
224	02-SUBS	M/S	Close Josephine to all traffic & detour around site	0 days	Fri 10/9/15	Fri 10/9/15	0%	220	225
225	02-SUBS		Installl new water line from north Josephine down to intersection in Colfax through middle of road (about 323 feet of pipe with about 100' per day of production)	4 days	Mon 10/12/15	Thu 10/15/15	0%	224	226
226	02-SUBS		Install 3" water Line, 8" x 4" tapping saddle, fire hydrant & line and 8" concrete plug At North Josephine	1 day	Fri 10/16/15	Fri 10/16/15	0%	206,199,130,225	227,228,230
227	02-SUBS		Patch Side Walk & Gutter at Josephine	1 day	Mon 10/19/15	Mon 10/19/15	0%	214,226,210	228
228	02-SUBS		Backfill & Patch Paving At N Josephine	1 day	Tue 10/20/15	Tue 10/20/15	0%	227,226	233,268,229
229	02-SUBS	M/S	Open Josephine back for all traffic	0 days	Tue 10/20/15	Tue 10/20/15	0%	228	268
230	02-SUBS		Bring fire lines & domestic lines in from stubs in Colfax & Josephine to first flange inside building for sprinkler sub & plumbing sub to connect to (after foundation walls are constructed)	3 days	Thu 2/25/16	Mon 2/29/16	0%	226,335SS	231
231	02-SUBS		Complete the installation of the two fire hydrants along Colfax (after foundation walls are constructed)	2 days	Tue 3/1/16	Wed 3/2/16	0%	230,215,219	207
232	**02-SUBS**		**Storm Drainage & Storm Tech Chambers & Detention**	**324 days**	**Wed 10/21/15**	**Mon 1/16/17**	**0%**		
233	02-SUBS		Storm Drain Tap Into Existing Storm Drain Inlet 16th Ave (limited to one pipe crew from chosen sub, so prioritized Colfax & Josephine ROW work and then folllowed with storm work.If 2nd pipe crew becomes available, could go concurrent with wate line work)	2 days	Wed 10/21/15	Thu 10/22/15	0%	228,130	234
234	02-SUBS		StormTech Outlet From Storm Drain To Storm Tech Chambers Detention	1 day	Fri 10/23/15	Fri 10/23/15	0%	233	235
235	02-SUBS		Excavate & Install StormTech Chambers for water quality detention system	10 days	Mon 10/26/15	Fri 11/6/15	0%	234	236
236	02-SUBS		Install Site Storm Drainage Lines & Inlets (other than rain garden lines & perimeter drains)	7 days	Mon 11/9/15	Tue 11/17/15	0%	235	241,268,238
237	02-SUBS		Perimeter drain (prior to backfill) (if ground is frozen, wait a few weeks to perform work in Spring)	5 days	Thu 2/18/16	Wed 2/24/16	0%	294	335
238	02-SUBS		Landscape drains & inlets (after building backfill)	8 days	Tue 1/3/17	Thu 1/12/17	0%	236,338,973SS+5 days	985
239	02-SUBS		Rain garden drains (after backfill & overlot grading)	10 days	Tue 1/3/17	Mon 1/16/17	0%	338,973SS+5 days	985
240	**02-SUBS**		**Parking Lot Construction (initial work is encroaching into winter now)**	**77 days**	**Mon 12/21/15**	**Tue 4/5/16**	**0%**		
241	02-SUBS		Layout Curb & Gutter	5 days	Mon 12/21/15	Fri 12/25/15	0%	236,117	242SS+1 day,243,244S
242	02-SUBS		Install Site Electrical Underground	10 days	Tue 12/22/15	Mon 1/4/16	0%	241SS+1 day	243SS,245
243	02-SUBS		Install Irrigation Sleeves Parking Lot	10 days	Mon 12/28/15	Fri 1/8/16	0%	241,242SS	245
244	02-SUBS		Fine Grade For Curb & Gutter (tasks from here forward are weather dependent and may slide closer to spring)	8 days	Tue 12/22/15	Thu 12/31/15	0%	241SS+1 day	245SS+1 day,246
245	02-SUBS		Form, Pour & Finish Curb & Gutter	10 days	Mon 1/11/16	Fri 1/22/16	0%	242,243,244SS+1 day	246SS+10 days,247
246	02-SUBS		Prep, Form & Pour Street Access Crosspans	15 days	Mon 1/25/16	Fri 2/12/16	0%	245SS+10 days,244	251
247	02-SUBS		Install Site Lighting Bases	8 days	Mon 1/25/16	Wed 2/3/16	0%	245	248SS+4 days,249
248	02-SUBS		Fine Grade Parking Lot	3 days	Fri 1/29/16	Tue 2/2/16	0%	247SS+4 days	249
249	02-SUBS		Install First Lift Of Asphalt Paving (move to spring as asphalt plants would be closed in winter)	5 days	Wed 3/16/16	Tue 3/22/16	0%	248,247,184	250
250	02-SUBS		Back Up C&G At Parking Lot	5 days	Wed 3/23/16	Tue 3/29/16	0%	249	252
251	02-SUBS		Prep, Form & Place Sidewalks At ROW	12 days	Mon 2/15/16	Tue 3/1/16	0%	246	252
252	02-SUBS		Patch Asphalt / Concrete At ROW To Existing Street Tie-Ins	5 days	Wed 3/30/16	Tue 4/5/16	0%	251,250	971
253	**02-SUBS**		**3rd Party Utility Work**	**113 days**	**Mon 8/17/15**	**Wed 1/20/16**	**0%**		
254	02-XCEL ENERGY		Gas service engineering by Xcel	20 days	Mon 8/17/15	Fri 9/11/15	0%	63	255
255	02-XCEL ENERGY		Xcel subcontractor(s) install gas service	10 days	Fri 9/25/15	Thu 10/8/15	0%	201,254	527,357
256	02-SUBS		Tele/data & Cable TV two empty 4" conduit installation by A&P's electrical sub	10 days	Mon 10/12/15	Fri 10/23/15	0%	201,65,66	257,258
257	00-CACD		Tele/data Fiber service feeds to building by CCD (or their chosen provider)	10 days	Mon 10/26/15	Fri 11/6/15	0%	201,256	527,357,524,523,522
258	02-CENTURY		Cable TV service feeds to building by Century Link	10 days	Mon 10/26/15	Fri 11/6/15	0%	201,256	527,357
259	02-XCEL ENERGY		Xcel Energy engineering work for electrical service	40 days	Mon 8/17/15	Fri 10/9/15	0%	67	260
260	02-XCEL ENERGY		Xcel subcontractor(s) install electrical to transformer & set transformer	15 days	Mon 10/12/15	Fri 10/30/15	0%	259,201	261SS+5 days,519,357
261	02-SUBS		Electrical ductbank/concrete encasement installation by electrical sub	10 days	Thu 12/24/15	Wed 1/6/16	0%	64,260SS+5 days,163	519,262,357
262	02-SUBS		Pull electrical feeders from transformer to electrical rm	10 days	Thu 1/7/16	Wed 1/20/16	0%	261	518,336
263	**02-SUBS**		**BUILDING CONSTRUCTION**	**389 days**	**Tue 9/22/15**	**Fri 3/17/17**	**0%**		
264	**02-SUBS**		***FOUNDATIONS & SUBSTRUCTURE***	**271 days**	**Tue 9/22/15**	**Tue 10/4/16**	**0%**		
265	**02-SUBS**		**BUILDING DEEP FOUNDATION SYSTEM (middle to later stages of this process at risk of going into winter conditions)**	**190 days**	**Tue 9/22/15**	**Mon 6/13/16**	**0%**		
266	00-AHJ		Dewatering permitting application & review process with City & State	15 days	Tue 9/22/15	Mon 10/12/15	0%	111	267
267	00-AHJ	M/S	Dewatering permit received	0 days	Mon 10/12/15	Mon 10/12/15	0%	266	276
268	02-SUBS		Deep Foundation Installation at Pool Mechanical, surge tank & along 2 line from E to I (Dril Rig #1)-(figure average of 6 piers per day with down time for weather & rig maintenance)-21 piers	4 days	Wed 11/18/15	Mon 11/23/15	0%	173,132,133,134,192	280,269,270
269	02-SUBS		Deep Foundation Installation Locker Room (Drill Rig #1)-26 piers	5 days	Tue 11/24/15	Mon 11/30/15	0%	268	281,271,272
270	02-SUBS		Excavate down to a bench elevation to drill lap pool foundations from a level grade through some overburden (due to slope of pool bottom transition from shallow to deep water)	1 day	Tue 11/24/15	Tue 11/24/15	0%	268	271
271	02-SUBS		Deep Foundation Installation Lap Pool (Drill Rig #1)-68 piers	12 days	Tue 12/1/15	Wed 12/16/15	0%	269,270	282
272	02-SUBS		Deep Foundation Installation Leisure Pool & Slide Supports (Drill Rig #2)-45 piers, + 1 pier for steel column & maybe 2 to 4 more piers for slide supports	9 days	Tue 12/1/15	Fri 12/11/15	0%	269	273,283
273	02-SUBS		Deep Foundation Installation Entry, Office, Child Care & south end of structure (Drill Rig #2)-32 piers	6 days	Mon 12/14/15	Mon 12/21/15	0%	272	284,274,276
274	02-SUBS		Excavate perimeter bench down to prepare for soil nail retention system	4 days	Tue 12/22/15	Fri 12/25/15	0%	273	275

EXHIBIT ____ - PROJECT SCHEDULE
CENTRAL DENVER RECREATION CENTER

ID	RESP	LESTON	Task Name	Duration	Start	Finish	% Comp	Predecessors	Successors
275	02-SUBS		Soil nailing & shotcrete work for retention system on Josephine & Colfax	8 days	Mon 12/28/15	Wed 1/6/16	0%	274,126	280,281,282,283,284
276	02-SUBS		Put dewatering measures in place (well points, header pipes, carbon filtration systems, Sodium Hypochlorite injection, etc. as determined by Environmental Consultant & CDHPE & OPC recommendations)	5 days	Tue 12/22/15	Mon 12/28/15	0%	191,267,273	277
277	02-SUBS		Draw down water table & tune dewatering system	7 days	Tue 12/29/15	Wed 1/6/16	0%	276	278SS,280
278	02-SUBS		Dewatering system in operation & being monitored/maintained 24/7 from time surge tank/pump excavation commences until lap pool walls are backfilled)	105 days	Thu 1/7/16	Wed 6/1/16	0%	280SS,277SS	312FF,279
279	02-SUBS		Allow for close to 2 weeks overrun on use of dewatering system due to any minor delays & potential weather impacts (system being rented for about 120 work days/180 calendar total)	8 days	Thu 6/2/16	Mon 6/13/16	0%	278	312
280	02-SUBS		Excavation For Pool Mechanical & Underdrain Sump Pit	3 days	Thu 1/7/16	Mon 1/11/16	0%	268,275,277	286,278SS
281	02-SUBS		Excavate Locker Room & FLR Area Foundation	5 days	Thu 1/7/16	Wed 1/13/16	0%	269,125,127,180,275	294
282	02-SUBS		Excavate Lap Pool Foundation	5 days	Thu 1/7/16	Wed 1/13/16	0%	271,275	283,305
283	02-SUBS		Excavate Leisure Pool Foundation	5 days	Thu 1/14/16	Wed 1/20/16	0%	272,282,275	284,317
284	02-SUBS		Excavate Party Room, Elevator Pit, Stair Towers, Life Guard Room Foundation	5 days	Thu 1/21/16	Wed 1/27/16	0%	273,283,275	297
285	**02-SUBS**		**FOUNDATION WALLS & GRADE BEAMS (all this work is high risk as it will be happening during winter months-added 3 days to critical path activities for the higher risk work & schedule start shift)**	**49 days**	**Tue 1/12/16**	**Fri 3/18/16**	**0%**		
286	02-SUBS		Install Sump Pump Pit Pool Mechanical	3 days	Tue 1/12/16	Thu 1/14/16	0%	280,146	287
287	02-SUBS		Place Footing Slab At Pool Pump Pit Lid & Surge Tank Pad	6 days	Fri 1/15/16	Fri 1/22/16	0%	286	288
288	02-SUBS		Layout Pit & Tank Walls	1 day	Mon 1/25/16	Mon 1/25/16	0%	287	289
289	02-SUBS		Form Rebar Place Walls Pump Pit & Surge Tank Walls	10 days	Tue 1/26/16	Mon 2/8/16	0%	288	290,294
290	02-SUBS		Cure Time Pump Pit / Surge Tank Walls	7 days	Tue 2/9/16	Wed 2/17/16	0%	289	291
291	02-SUBS		Install Piping From Surge Tank And Pump Pit To Lap Pool Deck Area	6 days	Thu 2/18/16	Thu 2/25/16	0%	290	292
292	02-SUBS		Intall Piping From Surge Tank & Pump Pit To Leisure Pool To Lap Pool Deck Area	6 days	Fri 2/26/16	Fri 3/4/16	0%	291	293
293	02-SUBS		Back Fill Surge Tank Pump Pit Area	5 days	Mon 3/7/16	Fri 3/11/16	0%	292	295
294	02-SUBS		Form Rebar Place Locker Room & Family Locker Room Foundations	7 days	Tue 2/9/16	Wed 2/17/16	0%	281,289,150	335,296,237
295	02-SUBS		Form Rebar Place Foundation At Pool Mechanical Area Foundation	5 days	Mon 3/14/16	Fri 3/18/16	0%	293	336,299,407
296	02-SUBS		Form Rebar Place Elevator Pit Foundation	5 days	Thu 2/18/16	Wed 2/24/16	0%	294	297
297	02-SUBS		Form Rebar Place Party Room, Stair Towers, Life Guard Room Foundation	8 days	Thu 2/25/16	Mon 3/7/16	0%	296,284	357
298	**02-SUBS**		**STRUCTURAL LAP POOL SHELL, UDNER DRAIN & PIPING**	**73 days**	**Mon 3/21/16**	**Wed 6/29/16**	**0%**		
299	02-SUBS		Excavate Lap Pool Dive Well & Under Drain	3 days	Mon 3/21/16	Wed 3/23/16	0%	295,119	300
300	02-SUBS		Install Under Drain Piping & Main Drain Piping Lap Pool	5 days	Thu 3/24/16	Wed 3/30/16	0%	299	301
301	02-SUBS		Excavate Balance Of Lap Pool	3 days	Thu 3/31/16	Mon 4/4/16	0%	300	302
302	02-SUBS		Intall Return Water Lines At Lap Pool Floor	4 days	Tue 4/5/16	Fri 4/8/16	0%	301	303,360
303	02-SUBS		Form & Rebar Lap Pool Floor	6 days	Thu 5/5/16	Thu 5/12/16	0%	302,366	304
304	02-SUBS		Install Electrical Grounding Lap Pool Floor	2 days	Fri 5/13/16	Mon 5/16/16	0%	303	305
305	02-SUBS		Place Lap Pool Floor	3 days	Tue 5/17/16	Thu 5/19/16	0%	304,282	306
306	02-SUBS		Install Exterior Lap Pool Wall Forms	5 days	Fri 5/20/16	Thu 5/26/16	0%	305	307
307	02-SUBS		Install Lap Pool Wall Rebar	5 days	Fri 5/27/16	Thu 6/2/16	0%	306	308
308	02-SUBS		Install Wall Lap Pool Inserts and Achors	3 days	Fri 6/3/16	Tue 6/7/16	0%	307	309
309	02-SUBS		Install Grounding At Lap Pool Walls	3 days	Wed 6/8/16	Fri 6/10/16	0%	308	310
310	02-SUBS		Shotcrete Lap Pool Walls	2 days	Mon 6/13/16	Tue 6/14/16	0%	309	311
311	02-SUBS		Tie In Piping From Lap Pool To Lap Pool Piping From Pool Mechanical	7 days	Wed 6/15/16	Thu 6/23/16	0%	310	312
312	02-SUBS		Back Fill Lap Pool Structural Shell	4 days	Fri 6/24/16	Wed 6/29/16	0%	311,278FF,279	314,567,485
313	**02-SUBS**		**STRUCTURAL LEISURE POOL SHELL, UDNER DRAIN & PIPING**	**69 days**	**Thu 6/30/16**	**Tue 10/4/16**	**0%**		
314	02-SUBS		Excavate Leisure Pool and Under Drain	3 days	Thu 6/30/16	Mon 7/4/16	0%	312	315
315	02-SUBS		Install Under Drain Piping & Main Drain Piping Leisure Pool	6 days	Tue 7/5/16	Tue 7/12/16	0%	314	316
316	02-SUBS		Intall Return Water Lines At Leisure Pool Floor	4 days	Wed 7/13/16	Mon 7/18/16	0%	315	317
317	02-SUBS		Form & Rebar Leisure Pool Floor	6 days	Tue 7/19/16	Tue 7/26/16	0%	316,283	318
318	02-SUBS		Install Electrical Grounding Leisure Pool Floor	2 days	Wed 7/27/16	Thu 7/28/16	0%	317	319
319	02-SUBS		Place Leisure Pool Floor & Zero Beach Entry	3 days	Fri 7/29/16	Tue 8/2/16	0%	318	320
320	02-SUBS		Install Leisure Pool Wall Forms One Side	5 days	Wed 8/3/16	Tue 8/9/16	0%	319	321
321	02-SUBS		Install Leisure Pool Wall Rebar	5 days	Wed 8/10/16	Tue 8/16/16	0%	320	322
322	02-SUBS		Install Wall Leisure Pool Inserts and Achors	3 days	Wed 8/17/16	Fri 8/19/16	0%	321	323
323	02-SUBS		Install Grounding At Leisure Pool Walls	3 days	Mon 8/22/16	Wed 8/24/16	0%	322	324
324	02-SUBS		Shotcrete Leisure Pool Walls	2 days	Thu 8/25/16	Fri 8/26/16	0%	323	325
325	02-SUBS		Tie In Piping From Leisure Pool To Leisure Pool Piping From Pool Mechanical	7 days	Mon 8/29/16	Tue 9/6/16	0%	324	326
326	02-SUBS		Back Fill Leisure Pool Structural Shell	4 days	Wed 9/7/16	Mon 9/12/16	0%	325	327
327	02-SUBS		Layout Pool Slide Leisure Pool	2 days	Tue 9/13/16	Wed 9/14/16	0%	326	328
328	02-SUBS		Excavate Pool Slide Foundation Leisure Pool	3 days	Thu 9/15/16	Mon 9/19/16	0%	327	329
329	02-SUBS		Install Pool Slide Foundations Leisure Pool	5 days	Tue 9/20/16	Mon 9/26/16	0%	328	330SS,333
330	02-SUBS		Install Pool Slide Run Out Leisure Pool	5 days	Tue 9/20/16	Mon 9/26/16	0%	329SS	331SS,333
331	02-SUBS		Install Pool Slide Grounding Leisure Pool	5 days	Tue 9/20/16	Mon 9/26/16	0%	330SS	332
332	02-SUBS		R/I Pool Piping Pool Slide Leisure Pool	3 days	Tue 9/27/16	Thu 9/29/16	0%	331	333
333	02-SUBS		BackFill Pool Slide Foundations Leisure Pool	3 days	Fri 9/30/16	Tue 10/4/16	0%	332,329,330	591
334	**02-SUBS**		**FOUNDATION BACKFILL & PERIMITER DRAIN**	**25 days**	**Thu 2/25/16**	**Wed 3/30/16**	**0%**		
335	02-SUBS		Backfill Locker Room & FLR Foundations	8 days	Thu 2/25/16	Mon 3/7/16	0%	294,237	340,230SS,207SS
336	02-SUBS		Backfill Pool Mechanical Area Foundations	3 days	Mon 3/21/16	Wed 3/23/16	0%	295,262	337
337	02-SUBS		Backfill Elevator Pit Foundation	3 days	Thu 3/24/16	Mon 3/28/16	0%	336	338
338	02-SUBS		Backfill Party Room, Stair Towers, Life Guard Room Foundation	2 days	Tue 3/29/16	Wed 3/30/16	0%	337	357,238,239
339	**02-SUBS**		**SLAB ON GRADE (early stages of this at risk for tail end of winter potential weather impacts)**	**57 days**	**Tue 3/8/16**	**Wed 5/25/16**	**0%**		
340	02-SUBS		Layout Interior Locker Room & Family Walls	3 days	Tue 3/8/16	Thu 3/10/16	0%	335,207	341
341	02-SUBS		Under Ground Plumbing LR & Family LR	11 days	Fri 3/11/16	Fri 3/25/16	0%	340	342SS+7 days,344,343
342	02-SUBS		Under Ground Electrical LR & Family LR	5 days	Tue 3/22/16	Mon 3/28/16	0%	341SS+7 days	344
343	02-SUBS		Underground 48" HDPE return/exhaust duct under corridor LR & Family RR	10 days	Wed 3/16/16	Tue 3/29/16	0%	341SS+3 days	344
344	02-SUBS		Inspect Under Ground Plumbing, Duct & Electrical LR & FLR	4 days	Wed 3/30/16	Mon 4/4/16	0%	342,341,343	345
345	02-SUBS		Grade Locker Rooms & Family For Slab On Grade	4 days	Tue 4/5/16	Fri 4/8/16	0%	344	346
346	02-SUBS		Prep SOG Pour Locker Rooms & Family LR	6 days	Mon 4/11/16	Mon 4/18/16	0%	345	347
347	02-SUBS		Place & Finish Locker Room & Family LR SOG	5 days	Tue 4/19/16	Mon 4/25/16	0%	346	531,348,549
348	02-SUBS		Layout Party Room, Stair Towers, Life Guard Room Foundation	2 days	Tue 4/26/16	Wed 4/27/16	0%	347	349
349	02-SUBS		Under Ground MEP Party Room, Stair Towers, Life Guard Room Foundation	3 days	Thu 4/28/16	Mon 5/2/16	0%	348	350
350	02-SUBS		Inspect Under Ground MEP Party Room, Stair Towers, Life Guard Room Foundation	2 days	Tue 5/3/16	Wed 5/4/16	0%	349	351

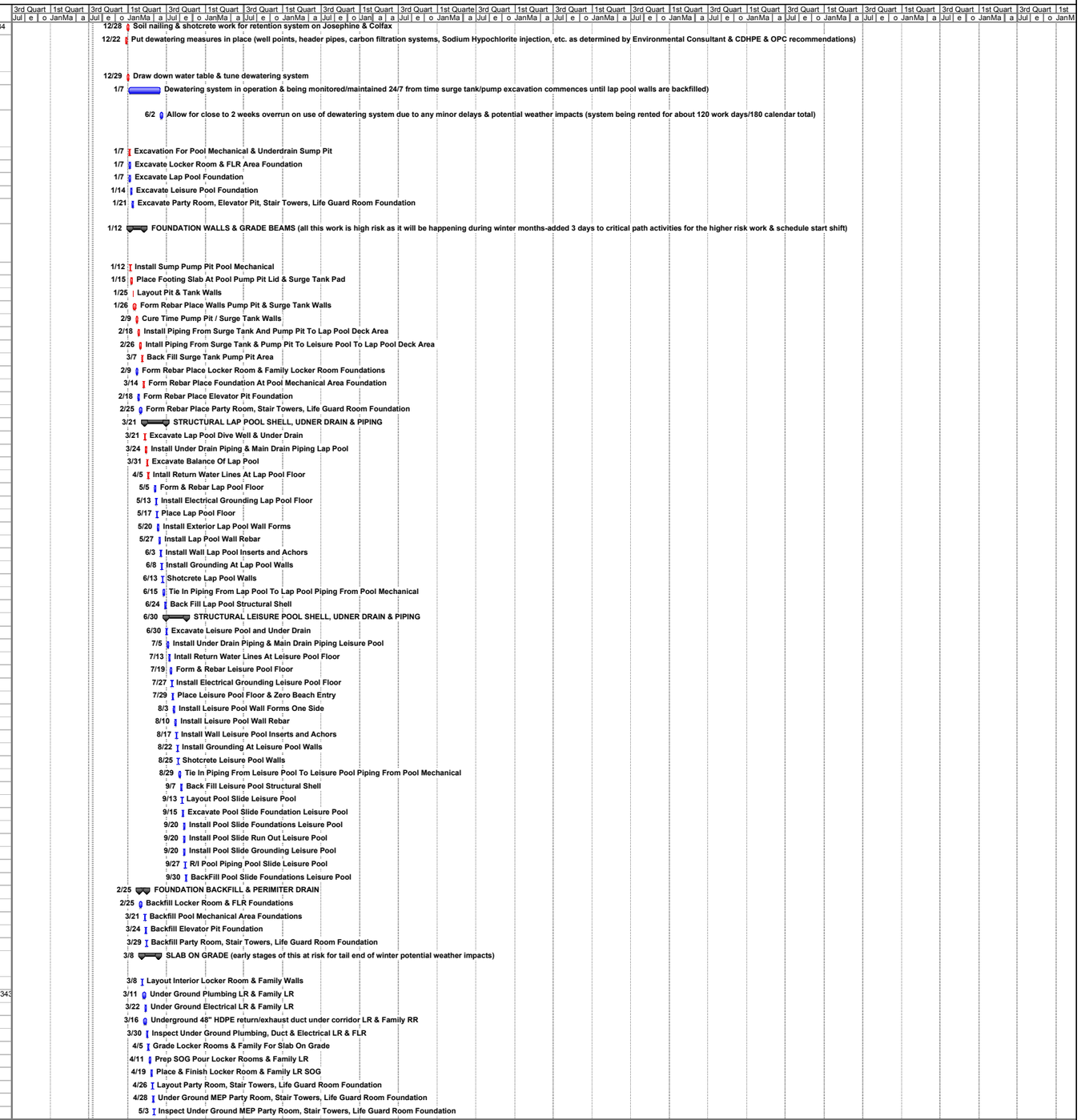


EXHIBIT ____ - PROJECT SCHEDULE
CENTRAL DENVER RECREATION CENTER

ID	RESP	LESTON	Task Name	Duration	Start	Finish	% Comp	Predecessors	Successors
351	02-SUBS		Fine Grade SOG Party Room, Stair Towers, Life Guard Room Foundation	5 days	Thu 5/5/16	Wed 5/11/16	0%	350	352
352	02-SUBS		Prep SOG Party Room, Stair Towers, Life Guard Room Foundation	5 days	Thu 5/12/16	Wed 5/18/16	0%	351	353
353	02-SUBS		Place SOG Party Room, Stair Towers, Life Guard Room Foundation	5 days	Thu 5/19/16	Wed 5/25/16	0%	352	633,549,654,661
354	**02-SUBS**		***SUPERSTRUCTURE***	**85 days**	**Thu 3/31/16**	**Wed 7/27/16**	**0%**		
355	**02-SUBS**		**STRUCTURAL STEEL ERECTION (1st week or two of steel has some winter impact risks)**	**85 days**	**Thu 3/31/16**	**Wed 7/27/16**	**0%**		
356	**02-SUBS**		**Structural Steel First Level**	**6 days**	**Thu 3/31/16**	**Thu 4/7/16**	**0%**		
357	02-SUBS		Erect Structural Steel LR & FLR Party Room Pool Storage First Level South West	3 days	Thu 3/31/16	Mon 4/4/16	0%	338,297,255,257,258	358,370
358	02-SUBS		Erect Structural Steel Pool Mechanical Roof & Mechanical Well North	3 days	Tue 4/5/16	Thu 4/7/16	0%	357	360
359	**02-SUBS**		**Structural Steel Second Level Floor**	**8 days**	**Mon 4/11/16**	**Wed 4/20/16**	**0%**		
360	02-SUBS		Structural Steel Second Level Gym Group Exercise Cardio Weights South	5 days	Mon 4/11/16	Fri 4/15/16	0%	358,302	361,368
361	02-SUBS		Erect Structural Steel For AHU Second Level North	3 days	Mon 4/18/16	Wed 4/20/16	0%	360	363
362	**02-SUBS**		**Structural Steel Roof Over Fitness Bath Rms Group Exercise**	**3 days**	**Thu 4/21/16**	**Mon 4/25/16**	**0%**		
363	02-SUBS		Erect Structural Steel Roof At Group Exc. Fitness Bathrooms West	3 days	Thu 4/21/16	Mon 4/25/16	0%	361	365,654
364	**02-SUBS**		**Structural Steel Roof At Gym Cardio Weights**	**7 days**	**Tue 4/26/16**	**Wed 5/4/16**	**0%**		
365	02-SUBS		Erect Roof Over Gym & Cardio Weights	5 days	Tue 4/26/16	Mon 5/2/16	0%	363	366,661
366	02-SUBS		Erect Frames At Skylights Gym Cardio Weights	2 days	Tue 5/3/16	Wed 5/4/16	0%	365	303,368
367	**02-SUBS**		**Structural Steel At Mezzanine Track**	**7 days**	**Thu 5/5/16**	**Fri 5/13/16**	**0%**		
368	02-SUBS		Erect Steel For Running Track Hanging From Roof Steel At Gym Cardio Weights (assuming Alternate is accepted or infrastructure is required as part of the base GMP)	7 days	Thu 5/5/16	Fri 5/13/16	0%	**360,366**	370,914SS
369	**02-SUBS**		**Structural Steel Detail Work**	**42 days**	**Mon 5/16/16**	**Tue 7/12/16**	**0%**		
370	02-SUBS		Detail Work SS First Level South West	4 days	Mon 5/16/16	Thu 5/19/16	0%	368,357	371,380,633
371	02-SUBS		Detail Work SS Roof Pool Mechanical & Mechanical Well North	4 days	Fri 5/20/16	Wed 5/25/16	0%	370	372
372	02-SUBS		Detail Work Second Level Gym Floor Fitness Group Exercise South	7 days	Thu 5/26/16	Fri 6/3/16	0%	371	373
373	02-SUBS		Detail Work Roof At AHU Mechanical Well Second Level North	5 days	Mon 6/6/16	Fri 6/10/16	0%	372	374
374	02-SUBS		Detail Work At West Roof Group Exc. Fitness Bathrooms	4 days	Mon 6/13/16	Thu 6/16/16	0%	373	375
375	02-SUBS		Detail Work At Roof Level South	4 days	Fri 6/17/16	Wed 6/22/16	0%	374	376
376	02-SUBS		Detail Work AT Roof Level North	4 days	Thu 6/23/16	Tue 6/28/16	0%	375	377
377	02-SUBS		Detail Work At Mezzanine Track (if alternate is accepted)	5 days	Wed 6/29/16	Tue 7/5/16	0%	376	378,915SS
378	02-SUBS		Erect Railing At Mezzanine Track (if alternate is accepted)	5 days	Wed 7/6/16	Tue 7/12/16	0%	377	915SS,916
379	**02-SUBS**		**Decking At Structural Areas & Roofs**	**49 days**	**Fri 5/20/16**	**Wed 7/27/16**	**0%**		
380	02-SUBS		Decking First Level South West	3 days	Fri 5/20/16	Tue 5/24/16	0%	370	381,391
381	02-SUBS		Decking Roof Pool Mechanical & Mechanical Well North	2 days	Wed 5/25/16	Thu 5/26/16	0%	380	382
382	02-SUBS		Decking Second Level Gym Floor Fitness Group Exercise South	5 days	Fri 5/27/16	Thu 6/2/16	0%	381	383
383	02-SUBS		Decking Roof At AHU Mechanical Well Second Level North	2 days	Fri 6/3/16	Mon 6/6/16	0%	382	384
384	02-SUBS		Decking At West Roof Group Exc. Fitness Bathrooms	3 days	Tue 6/7/16	Thu 6/9/16	0%	383	385
385	02-SUBS		Decking At Roof Level South Over Cardio & Weights	5 days	Fri 6/10/16	Thu 6/16/16	0%	384	386,460,499
386	02-SUBS		Decking At Roof Level North Over Gym (last steel item needing crane)	5 days	Thu 7/7/16	Wed 7/13/16	0%	385,684FF,694FF	387,460FF+5 days
387	02-SUBS		Decking At Mezzanine Track (if alternate is accepted)	4 days	Thu 7/14/16	Tue 7/19/16	0%	386	388,915SS,460FF
388	02-SUBS		Erect Railing At Mezzanine Track (if alternate is accepted)	6 days	Wed 7/20/16	Wed 7/27/16	0%	387	915SS,916
389	**02-SUBS**		**SLABS ON METAL DECK (appears that all slab work would fit during summer months)**	**40 days**	**Wed 5/25/16**	**Tue 7/19/16**	**0%**		
390	**02-SUBS**		**SOMD First Level**	**13 days**	**Wed 5/25/16**	**Fri 6/10/16**	**0%**		
391	02-SUBS		Inspect Structural Steel & Decking First Level	3 days	Wed 5/25/16	Fri 5/27/16	0%	380	392
392	02-SUBS		MEP SOMD Prep First Level	5 days	Mon 5/30/16	Fri 6/3/16	0%	391	393SS+3 days,394
393	02-SUBS		Prep SOMD Pour First Level	4 days	Thu 6/2/16	Tue 6/7/16	0%	392SS+3 days	394
394	02-SUBS		Place Slab On Metal Deck First Level	3 days	Wed 6/8/16	Fri 6/10/16	0%	393,392	396,531
395	**02-SUBS**		**SOMD Second Level**	**15 days**	**Mon 6/13/16**	**Fri 7/1/16**	**0%**		
396	02-SUBS		Inspect Structural Steel & Decking Second Level	3 days	Mon 6/13/16	Wed 6/15/16	0%	394	397
397	02-SUBS		MEP SOMD Prep Second Level	5 days	Thu 6/16/16	Wed 6/22/16	0%	396	398
398	02-SUBS		Prep SOMD Pour Second Level	3 days	Thu 6/23/16	Mon 6/27/16	0%	397	399
399	02-SUBS		Place Slab On Metal Deck Second Level	4 days	Tue 6/28/16	Fri 7/1/16	0%	398	401,683,698,713,728,7
400	**02-SUBS**		**SOMD Second Level Gym**	**12 days**	**Mon 7/4/16**	**Tue 7/19/16**	**0%**		
401	02-SUBS		Inspect Structural Steel & Decking Second Level Gym	3 days	Mon 7/4/16	Wed 7/6/16	0%	399	402
402	02-SUBS		MEP SOMD Prep Second Level Gym	3 days	Thu 7/7/16	Mon 7/11/16	0%	401	403
403	02-SUBS		Prep SOMD Pour Second Level Gym	3 days	Tue 7/12/16	Thu 7/14/16	0%	402	404
404	02-SUBS		Place Slab On Metal Deck Second Level Gym	3 days	Fri 7/15/16	Tue 7/19/16	0%	403	793,816,831,848,864,8
405	**02-SUBS**		***EXTERIOR WALL SYSTEMS***	**273 days**	**Mon 12/21/15**	**Wed 1/4/17**	**0%**		
406	**02-SUBS**		**MISCELLANEOUS EXTERIOR ITEMS**	**67 days**	**Mon 3/21/16**	**Tue 6/21/16**	**0%**		
407	02-SUBS		Pool Mechanical Well Exterior Wall System	6 days	Mon 3/21/16	Mon 3/28/16	0%	295	409,415,408
408	02-SUBS		Exterior screen wall at generator enclosure	5 days	Tue 3/29/16	Mon 4/4/16	0%	407	447
409	02-SUBS		Fitness & Track Level Two Exterior Wall System	11 days	Tue 3/29/16	Tue 4/12/16	0%	407	410,462
410	02-SUBS		Lap Pool Exterior Wall System	12 days	Wed 4/13/16	Thu 4/28/16	0%	409	411
411	02-SUBS		Leisure Pool Exterior Walls System	12 days	Fri 4/29/16	Mon 5/16/16	0%	410	412
412	02-SUBS		Entry, Lounge, Offices & Racquetball Exterior Wall System	14 days	Tue 5/17/16	Fri 6/3/16	0%	411	413
413	02-SUBS		Gym Exterior Wall System	12 days	Mon 6/6/16	Tue 6/21/16	0%	412	447,415
414	**02-SUBS**		**MASONRY VENEER & EXTERIOR HM DOORS (happening during summer months)**	**54 days**	**Tue 6/21/16**	**Mon 9/5/16**	**0%**		
415	02-SUBS		Exterior Hollow Metal Door Frames On Site	0 days	Tue 6/21/16	Tue 6/21/16	0%	407,413	416
416	02-SUBS		Install Exterior HM Frames	10 days	Wed 6/22/16	Tue 7/5/16	0%	415	417SS+3 days,419
417	02-SUBS		Pool Mechanical Masonry Veneer	5 days	Mon 6/27/16	Fri 7/1/16	0%	416SS+3 days	418,423
418	02-SUBS		Lap Pool Masonry Veneer	10 days	Mon 7/4/16	Fri 7/15/16	0%	417	419,425
419	02-SUBS		Leisure Pool Masonry Veneer	10 days	Mon 7/18/16	Fri 7/29/16	0%	418,416	420,426
420	02-SUBS		Entry, Lounge, Offices & Racquetball Masonry Veneer	10 days	Mon 8/1/16	Fri 8/12/16	0%	419	427,421
421	02-SUBS		Gym Masonry Veneer	16 days	Mon 8/15/16	Mon 9/5/16	0%	420	428,971,447
422	**02-SUBS**		**EXTERIOR SIDING FINISH**	**51 days**	**Mon 7/4/16**	**Mon 9/12/16**	**0%**		
423	02-SUBS		Pool Mechanical Siding Finish	5 days	Mon 7/4/16	Fri 7/8/16	0%	417	424,430
424	02-SUBS		Fitness & Track Second Floor Siding Finish	10 days	Mon 7/11/16	Fri 7/22/16	0%	423	425
425	02-SUBS		Lap Pool Siding Finish	10 days	Mon 7/25/16	Fri 8/5/16	0%	418,424	426
426	02-SUBS		Leisure Pool Siding Finish	10 days	Mon 8/8/16	Fri 8/19/16	0%	425,419	427
427	02-SUBS		Entry, Lounge, Offices & Racquetball Siding Finish	10 days	Mon 8/22/16	Fri 9/2/16	0%	426,420	428
428	02-SUBS		Gym Siding Finish	5 days	Tue 9/6/16	Mon 9/12/16	0%	427,421	437,447
429	**02-SUBS**		**PAINT EXTERIOR SIDING**	**33 days**	**Mon 7/11/16**	**Wed 8/24/16**	**0%**		
430	02-SUBS		Pool Mechanical Siding Paint and/or trim work	5 days	Mon 7/11/16	Fri 7/15/16	0%	423	431

ID	RESP	LESTON	Task Name	Duration	Start	Finish	% Comp	Predecessors	Successors
431	02-SUBS		Fitness & Track Second Floor Siding Paint and/or trim work	8 days	Mon 7/18/16	Wed 7/27/16	0%	430	432
432	02-SUBS		Lap Pool Siding Paint and/or trim work	5 days	Thu 7/28/16	Wed 8/3/16	0%	431	433
433	02-SUBS		Leisure Pool Siding Paint and/or trim work	5 days	Thu 8/4/16	Wed 8/10/16	0%	432	434
434	02-SUBS		Entry, Lounge, Offices & Racquetball Siding Paint and/or trim work	5 days	Thu 8/11/16	Wed 8/17/16	0%	433	435
435	02-SUBS		Gym Siding Paint and/or trim work	5 days	Thu 8/18/16	Wed 8/24/16	0%	434	971,447
436	**02-SUBS**		**EXTERIOR WINDOW OPENINGS**	**67 days**	**Tue 9/13/16**	**Wed 12/14/16**	**0%**		
437	02-SUBS		Field Measure & Order Aluminum Windows & Translucent Panels	3 days	Tue 9/13/16	Thu 9/15/16	0%	428	438
438	02-SUBS		Manufacture & Ship Aluminum Windows & Door Frames	30 days	Fri 9/16/16	Thu 10/27/16	0%	437	439
439	02-SUBS		Aluminum Window & Door Frames On Site	0 days	Thu 10/27/16	Thu 10/27/16	0%	438	440
440	02-SUBS		Start Install Aluminum Windows & Doors Exterioir	1 day	Fri 10/28/16	Fri 10/28/16	0%	439	441
441	02-SUBS		Pool Mechanical Aluminum Windows & Door Frames	5 days	Mon 10/31/16	Fri 11/4/16	0%	440	442
442	02-SUBS		Fitness & Track Second Floor Aluminun Windows & Door Frames	8 days	Mon 11/7/16	Wed 11/16/16	0%	441	443
443	02-SUBS		Lap Pool Aluminun Windows & Door Frames	5 days	Thu 11/17/16	Wed 11/23/16	0%	442	444
444	02-SUBS		Leisure Pool Aluminin Windows & Door Frames	5 days	Thu 11/24/16	Wed 11/30/16	0%	443	445
445	02-SUBS		Entry, Lounge, Offices & Racquetball Aluminum Windows & Door Frames	5 days	Thu 12/1/16	Wed 12/7/16	0%	444	446
446	02-SUBS		Gym Aluminun Windows & Door Frames	5 days	Thu 12/8/16	Wed 12/14/16	0%	445	971,447
447	02-SUBS	M/S	***Exterior Perimeter Dry-in Completed (appears to work with accomplishing it ahead of winter)***	0 days	Wed 12/14/16	Wed 12/14/16	0%	446,428,421,413,408,	971,806
448	**02-SUBS**		**EXTERIOR CLIMBING WALL SYSTEM (Alternate if accepted; not tied into Substantial Completion prior to go/no-go decision)**	**273 days**	**Mon 12/21/15**	**Wed 1/4/17**	**0%**		
449	00-CACD		Make Decision on Ext Climbing Wall Alternate	60 days	Mon 12/21/15	Fri 3/11/16	0%	117	450
450	00-CACD		Awards & procure materials on Ext Climbing Wall Alternate	146 days	Mon 3/14/16	Mon 10/3/16	0%	449	451
451	02-SUBS		Layout Climbing Wall	3 days	Mon 11/14/16	Wed 11/16/16	0%	624,450	**452**
452	02-SUBS		Frame Climbing Wall	6 days	Thu 11/17/16	Thu 11/24/16	0%	624,451	453
453	02-SUBS		Install Backing For Climbing Wall System	3 days	Fri 11/25/16	Tue 11/29/16	0%	452	454
454	02-SUBS		Install Anchors For Climbing Wall	3 days	Wed 11/30/16	Fri 12/2/16	0%	453	455
455	02-SUBS		Install Climbing Walls Inserts	3 days	Mon 12/5/16	Wed 12/7/16	0%	454	456
456	02-SUBS		Install Climbing Wall Façade	11 days	Thu 12/8/16	Thu 12/22/16	0%	455	457
457	02-SUBS		Install Flooring At Climbing Wall Landing Area	9 days	Fri 12/23/16	Wed 1/4/17	0%	456	985FF+1 day
458	**02-SUBS**		***ROOF CONSTRUCTION***	**53 days**	**Fri 6/17/16**	**Tue 8/30/16**	**0%**		
459	**02-SUBS**		**ROOFING (appears to all be happening during summer months)**	**53 days**	**Fri 6/17/16**	**Tue 8/30/16**	**0%**		
460	02-SUBS		Roof Blocking	25 days	Fri 6/17/16	Thu 7/21/16	0%	385,386FF+5 days,38	**467,461SS+1 day**
461	02-SUBS		Roof System at North Mechanical Area	4 days	Mon 6/20/16	Thu 6/23/16	0%	460SS+1 day	462,485,501,513
462	02-SUBS		Roofing System Fitness & Track Second Floor	8 days	Fri 6/24/16	Tue 7/5/16	0%	409,461	463,538,555,624,638,8
463	02-SUBS		Roofing System At Lap Pool	8 days	Wed 7/6/16	Fri 7/15/16	0%	462	464,572
464	02-SUBS		Roofing System At Leisure Pool	8 days	Mon 7/18/16	Wed 7/27/16	0%	463	465,595
465	02-SUBS		Roofing System At Entry, Lounge & Office	12 days	Thu 7/28/16	Fri 8/12/16	0%	464	467,466SS+10 days
466	02-SUBS		Set curb & mount EF-1 over family locker area	2 days	Thu 8/11/16	Fri 8/12/16	0%	465SS+10 days	467
467	02-SUBS		Roofing System At Gym	12 days	Mon 8/15/16	Tue 8/30/16	0%	465,460,466	793,971,666,468
468	02-SUBS	M/S	***Overhead Dry-in Completed***	0 days	Tue 8/30/16	Tue 8/30/16	0%	467	793,971,666,806
469	**02-SUBS**		***INTERIOR FINISHES & FIT-OUT***	**325 days**	**Mon 12/21/15**	**Fri 3/17/17**	**0%**		
470	**02-SUBS**		**OVERALL FINAL INSPECTIONS, PUNCHLIST & C OF O**	**52 days**	**Thu 1/5/17**	**Fri 3/17/17**	**0%**		
471	00-A & P		A&P Pre-Punch Project	3 days	Thu 1/5/17	Mon 1/9/17	0%	589,631,652,659,680,	472SS,473
472	00-A & P		Final Clean Building	14 days	Mon 1/30/17	Thu 2/16/17	0%	471SS,726,741,773,8	478FF+3 days
473	99-ALL		A&P & All Subs Completes Pre-Punch Work	7 days	Tue 1/10/17	Wed 1/18/17	0%	471,547,565	474
474	00-TEAM		Owner & Architect Quality Walk & Punch List	3 days	Thu 1/19/17	Mon 1/23/17	0%	473	475
475	00-AHJ		Final Inspection Electrical & Fire Protection	5 days	Tue 1/24/17	Mon 1/30/17	0%	474	476
476	00-AHJ		Final Inspection Elevator	5 days	Tue 1/31/17	Mon 2/6/17	0%	475	477SS,479
477	00-AHJ		Final Inspection Fire Alarm	5 days	Tue 1/31/17	Mon 2/6/17	0%	476SS	478
478	02-SUBS		Completion of Critical Punch List Items	10 days	Wed 2/8/17	Tue 2/21/17	0%	477,472FF+3 days	479
479	99-ALL		Weather Contingency (per historical averages,expect about 38 cal days per year of rain of >/=0.10". Have allowed for 15 work days lost to inclement weather. Assumed 60% or more of the day is lost to critical work to call it a weather day)	15 days	Wed 2/22/17	Tue 3/14/17	0%	478,476	480
480	99-ALL		Central Denver Recreation Center Substantial Completion Walk-throughs & Sign-off	3 days	Wed 3/15/17	Fri 3/17/17	0%	479	481
481	00-AHJ	M/S	Central Denver Recreation Center Certificate of Occupancy & S/C Certificates Issued	0 days	Fri 3/17/17	Fri 3/17/17	0%	480	993
482	**02-SUBS**		**LOWER LEVEL INTERIOR FINISHES & FIT-OUT**	**291 days**	**Mon 12/21/15**	**Mon 1/30/17**	**0%**		
483	**02-SUBS**		***Maintenance Office & Mech/Elec/Pool Equip Rooms Interior Finishes & Fit-out***	**255 days**	**Mon 12/21/15**	**Fri 12/9/16**	**0%**		
484	**02-SUBS**		**Pool Mechanical Room Construction**	**91 days**	**Thu 6/30/16**	**Thu 11/3/16**	**0%**		
485	02-SUBS		Install Pumps In Pool Pump Pit Pool Mech Rm	10 days	Thu 6/30/16	Wed 7/13/16	0%	312,159,531,461	486
486	02-SUBS		Install Pool Filters In Pool Mech Rm	10 days	Thu 7/14/16	Wed 7/27/16	0%	485	487
487	02-SUBS		Install Pool Heaters Pool Mech Rm	6 days	Thu 7/28/16	Thu 8/4/16	0%	486	488,489SS+3 days
488	02-SUBS		Install Piping Pool Mech Rm	30 days	Fri 8/5/16	Thu 9/15/16	0%	487	492
489	02-SUBS		Install all-plastic exhaust fans EF-4 & 5 at chlorine & acid rooms (if mounted above ceiling, but under roof)	2 days	Tue 8/2/16	Wed 8/3/16	0%	487SS+3 days	492,491,490
490	02-SUBS		PVC pipe exhaust installation from chlorine & acid rooms to roof	2 days	Thu 8/4/16	Fri 8/5/16	0%	489	583,691
491	02-SUBS		Connect power to all-plastic chlorine & acid exhaust fans	2 days	Thu 8/4/16	Fri 8/5/16	0%	489	583
492	02-SUBS		Tie Pool Piping Into Pumps Pool Mech Rm	5 days	Fri 9/16/16	Thu 9/22/16	0%	488,489	493
493	02-SUBS		Tie Pool Piping Into Pool Heaters Pool Mech Rm	5 days	Fri 9/23/16	Thu 9/29/16	0%	492	494
494	02-SUBS		Tie Pool Piping Into Pool Filters Pool Mech Rm	5 days	Fri 9/30/16	Thu 10/6/16	0%	493	495
495	02-SUBS		Set Up Pool Chemical Room Pool Mech Rm	5 days	Fri 10/7/16	Thu 10/13/16	0%	494	496
496	02-SUBS		Install Pool Chemical Feeders Pool Mech Rm	5 days	Fri 10/14/16	Thu 10/20/16	0%	495	497
497	02-SUBS		Tie Feeders Into Pool Pipe System Pool Mech Rm	10 days	Fri 10/21/16	Thu 11/3/16	0%	496	583
498	**02-SUBS**		**Maintenance Office & Mech/Elec Equip Rms-Interior Finishes & Fit-out**	**255 days**	**Mon 12/21/15**	**Fri 12/9/16**	**0%**		
499	02-SUBS		Layout housekeeping pads-Mntnce Off, MEP Eq Rms	2 days	Fri 6/17/16	Mon 6/20/16	0%	385,531	500
500	02-SUBS		Form, pour & strip M & E housekeeping pads-Mntnce Off, MEP Eq Rms	5 days	Tue 6/21/16	Mon 6/27/16	0%	499	505,504,501,513,514
501	02-SUBS		Set air handlers-Mntnce Off, MEP Eq Rms	5 days	Tue 6/28/16	Mon 7/4/16	0%	500,461	504,503,502
502	02-SUBS		Ductwork-Mntnce Off, MEP Eq Rms	20 days	Tue 7/5/16	Mon 8/1/16	0%	501	510,503SS+10 days,51
503	02-SUBS		Hydronic systems hangers & piping-Mntnce Off, MEP Eq Rms	25 days	Tue 7/19/16	Mon 8/22/16	0%	501,502SS+10 days	510,511,512
504	02-SUBS		Set HHW, CHW & Domestic water circulation pumps-Mntnce Off, MEP Eq Rms	5 days	Tue 7/5/16	Mon 7/11/16	0%	500,501	505,507,506,509
505	02-SUBS		Set/assemble boilers-Mntnce Off, MEP Eq Rms	5 days	Tue 7/12/16	Mon 7/18/16	0%	500,504	507
506	02-SUBS		Set heat exchangers-Mntnce Off, MEP Eq Rms	2 days	Tue 7/12/16	Wed 7/13/16	0%	504	508

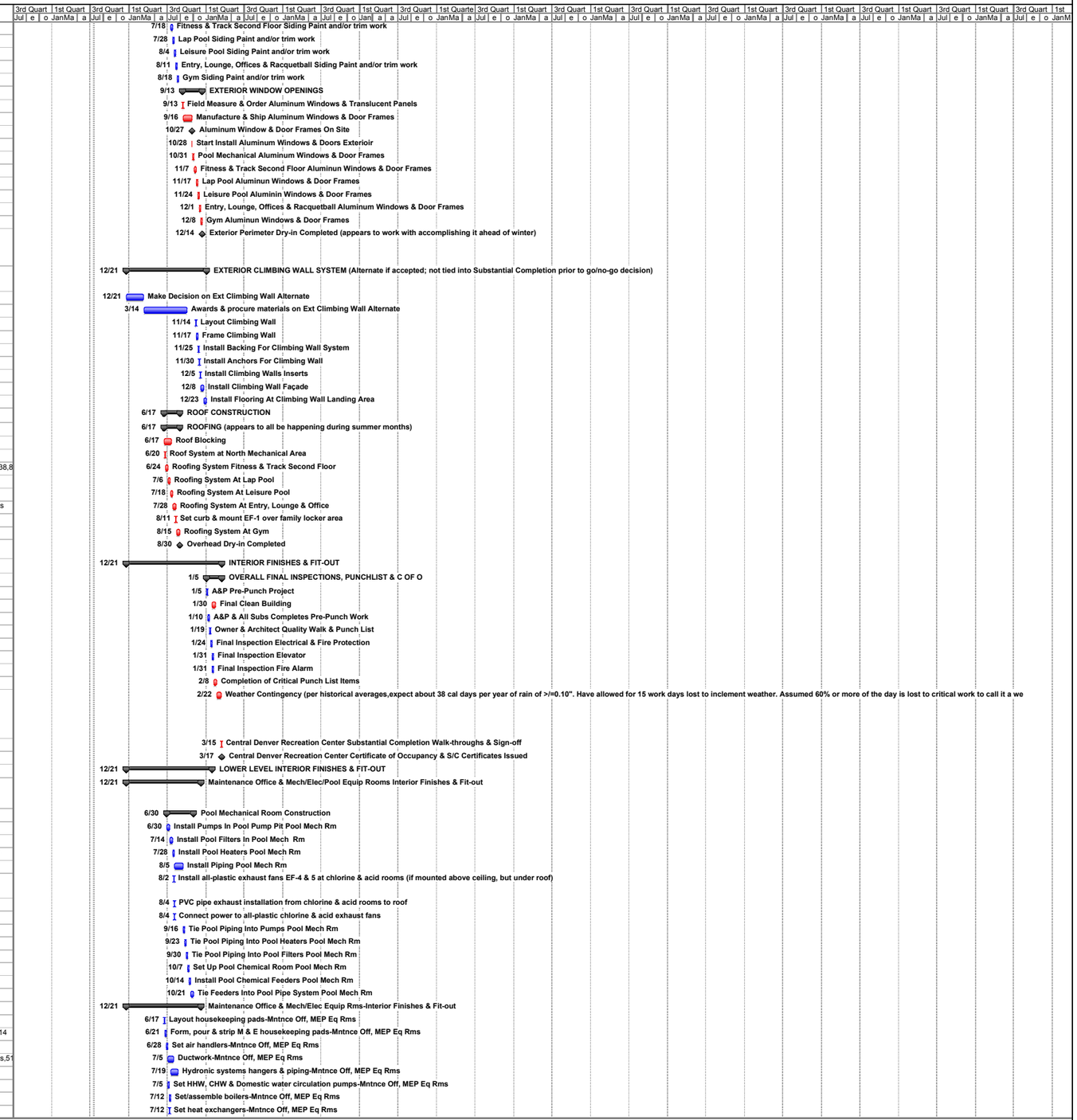


EXHIBIT ____ - PROJECT SCHEDULE
CENTRAL DENVER RECREATION CENTER

ID	RESP	LESTONE	Task Name	Duration	Start	Finish	% Comp	Predecessors	Successors
507	02-SUBS		Set expansion tanks-Mntnce Off, MEP Eq Rms	3 days	Tue 7/19/16	Thu 7/21/16	0%	505,504	508
508	02-SUBS		Set glycol tank & chemical feed system-Mntnce Off, MEP Eq Rms	2 days	Fri 7/22/16	Mon 7/25/16	0%	506,507	512FF+5 days
509	02-SUBS		Mount sidewall EF-7 in main electrical room	1 day	Tue 7/12/16	Tue 7/12/16	0%	504	512
510	02-SUBS		Mechanical insulation-Mntnce Off, MEP Eq Rms	15 days	Tue 8/23/16	Mon 9/12/16	0%	503,502	527,528
511	02-SUBS		Meters & Gauges-Mntnce Off, MEP Eq Rms	10 days	Tue 8/23/16	Mon 9/5/16	0%	503	527
512	02-SUBS		Building Controls-Mntnce Off, MEP Eq Rms	35 days	Tue 8/23/16	Mon 10/10/16	0%	502,503,508FF+5 day	518,520
513	02-SUBS		Set transformers-Mntnce Off, MEP Eq Rms	2 days	Tue 6/28/16	Wed 6/29/16	0%	500,461	518,695
514	02-SUBS		Set main switchboards-Mntnce Off, MEP Eq Rms	2 days	Tue 6/28/16	Wed 6/29/16	0%	500	515,695
515	02-SUBS		Set disconnects & VFD soft starts-Mntnce Off, MEP Eq Rms	4 days	Thu 6/30/16	Tue 7/5/16	0%	514	516,695
516	02-SUBS		Set panelboard tubs-Mntnce Off, MEP Eq Rms	5 days	Wed 7/6/16	Tue 7/12/16	0%	515	517,518FF+5 days
517	02-SUBS		Pull wire to tubs-Mntnce Off, MEP Eq Rms	15 days	Wed 7/13/16	Tue 8/2/16	0%	516	518SS+5 days,519,521
518	02-SUBS		Mount breakers & terminate wire at panels-Mntnce Off, MEP Eq Rms	20 days	Tue 10/11/16	Mon 11/7/16	0%	517SS+5 days,516FF	529,519
519	02-SUBS	M/S	Gear energized-Mntnce Off, MEP Eq Rms	0 days	Mon 11/7/16	Mon 11/7/16	0%	518,517,261,260,695	520,696,691,625,624
520	02-SUBS		Check motor rotations-Mntnce Off, MEP Eq Rms	3 days	Tue 11/8/16	Thu 11/10/16	0%	512,519	527,692,693
521	02-SUBS		A&P & Subs fit-out MDF Room 031-Cat-6 Cables brought to room, cable tray hung, power provided for City's equipment, FR plywood mounted on walls where required, lighting installed, door & hardware in place. Concrete sealer after City i finished)	20 days	Wed 8/3/16	Tue 8/30/16	0%	517	522,529
522	02-CENTURY		Century Link Installation of Tele/Data & Internet (head end equipment) (MDF Room #013 in Area B on Lower Level & IDF Rooms 013, 113 & 213 in Area A on Lower, Entry & 2nd levels)	20 days	Thu 10/20/16	Wed 11/16/16	0%	257,521,556,768	523,529,524
523	02-CENTURY	M/S	Phones functional for A&P & Sub's use for Elevator Inspections & Fire Alarm Monitoring Dial-up Testing	0 days	Wed 11/16/16	Wed 11/16/16	0%	522,257	631FF+1 day
524	02-CENTURY	M/S	Internet functional for A&P & Sub's use for controls start-up	0 days	Wed 11/16/16	Wed 11/16/16	0%	257,522	527
525	00-CACD		Available time for BAS (Building Automation System) Personal Computer Procurement by City (started at 203 days; shortened to see how design delay would affect other things)	180 days	Mon 12/21/15	Fri 8/26/16	0%	117	526
526	00-CACD	M/S	BAS (Building Automation System) Personal Computer Received by A&P's Controls Sub	0 days	Fri 8/26/16	Fri 8/26/16	0%	525	527FS+10 days
527	02-SUBS		**Full mechanical start-up, test & balance & COMMISSIONING-Mntnce Off, MEP Eq Rms (Cx process to include start-up checklist, pre-functional testing, equipment verification, O&M manual review, maintaining deficiency log etc.)**	15 days	Thu 11/17/16	Wed 12/7/16	0%	520,510,511,255,257, days	529,806
528	02-SUBS		Painting-Mntnce Off, MEP Eq Rms	5 days	Tue 9/13/16	Mon 9/19/16	0%	510	471
529	02-SUBS		Concrete sealer-Mntnce Off, MEP Eq Rms	2 days	Thu 12/8/16	Fri 12/9/16	0%	518,527,521,522	471
530	**02-SUBS**		***Men's/Women's/Family Locker Rooms Interior Finishes & Fit-out***	**93 days**	**Mon 6/13/16**	**Wed 10/19/16**	**0%**		
531	02-SUBS		Layout Interior Walls LR & FLR	2 days	Mon 6/13/16	Tue 6/14/16	0%	347,394	532,499,485,549,567,5
532	02-SUBS		Install Large Duct In Locker Room / Family LR Ceilings	7 days	Wed 6/15/16	Thu 6/23/16	0%	531	533
533	02-SUBS		Install Interior Masonry Walls LR & FLR	14 days	Fri 6/24/16	Wed 7/13/16	0%	532	534SS,537
534	02-SUBS		Rough In MEP & FP In Locker Room & Family LR Walls & Ceilings	14 days	Fri 6/24/16	Wed 7/13/16	0%	533SS	536,535SS+12 days
535	02-SUBS		Mount transfer fan TF-3	1 day	Tue 7/12/16	Tue 7/12/16	0%	534SS+12 days	536
536	02-SUBS		Inspect Above Ceilings LR & FLR	3 days	Thu 7/14/16	Mon 7/18/16	0%	534,535	537
537	02-SUBS		Frame Ceilings At LR & FLR	8 days	Tue 7/19/16	Thu 7/28/16	0%	536,533	538
538	02-SUBS		Rock, Tape & Finish Ceilings In LR & FLR	6 days	Fri 7/29/16	Fri 8/5/16	0%	537,462	539
539	02-SUBS		Install APC At Ceilings In LR & FLR	7 days	Mon 8/8/16	Tue 8/16/16	0%	538	540
540	02-SUBS		Install Tile At Floors & Walls LR & FLR	15 days	Wed 8/17/16	Tue 9/6/16	0%	539	541
541	02-SUBS		Paint Ceilings & Walls At LR & FLR	5 days	Wed 9/7/16	Tue 9/13/16	0%	540	542
542	02-SUBS		Install SS Vanities & Toilet Accessories LR & FLR	4 days	Wed 9/14/16	Mon 9/19/16	0%	541	543
543	02-SUBS		Install Plumbing Fixtures LR & FLR	5 days	Tue 9/20/16	Mon 9/26/16	0%	542	544
544	02-SUBS		Install MEP & FP Finishes LR & FLR	5 days	Tue 9/27/16	Mon 10/3/16	0%	543	545
545	02-SUBS		Install Toilet Partitions LR & FLR	3 days	Tue 10/4/16	Thu 10/6/16	0%	544	546
546	02-SUBS		Final Paint LR & FLR	4 days	Fri 10/7/16	Wed 10/12/16	0%	545	547
547	00-A & P		Pre-Punch LR & FLR	5 days	Thu 10/13/16	Wed 10/19/16	0%	546	473
548	**02-SUBS**		***Pool Admin/Lifeguard/Storage & Main Corridor Interior Finishes & Fit-out***	**93 days**	**Wed 6/15/16**	**Fri 10/21/16**	**0%**		
549	02-SUBS		Layout Interior Walls-Pool Admin/Lifeguard/Storage & Main Corridor	2 days	Wed 6/15/16	Thu 6/16/16	0%	347,353,531	550
550	02-SUBS		Install Large Duct Ceilings-Pool Admin/Lifeguard/Storage & Main Corridor	7 days	Fri 6/17/16	Mon 6/27/16	0%	549	551
551	02-SUBS		Install Interior Masonry Walls-Pool Admin/Lifeguard/Storage & Main Corridor	14 days	Tue 6/28/16	Fri 7/15/16	0%	550	552SS,554
552	02-SUBS		Rough In MEP & FP Walls & Ceilings-Pool Admin/Lifeguard/Storage & Main Corridor	14 days	Tue 6/28/16	Fri 7/15/16	0%	551SS	553
553	02-SUBS		Inspect Above Ceilings-Pool Admin/Lifeguard/Storage & Main Corridor	3 days	Mon 7/18/16	Wed 7/20/16	0%	552	554
554	02-SUBS		Frame Ceilings-Pool Admin/Lifeguard/Storage & Main Corridor	8 days	Thu 7/21/16	Mon 8/1/16	0%	553,551	555
555	02-SUBS		Rock, Tape & Finish Ceilings-Pool Admin/Lifeguard/Storage & Main Corridor	6 days	Tue 8/2/16	Tue 8/9/16	0%	554,462	557,556
556	02-SUBS		A&P & Subs fit-out IDF Room #013-Cat-6 Cables brought to room, cable tray hung, power provided for City's equipment, FR plywood mounted on walls where required, lighting installed, door & hardware in place. Concrete sealer after City is finished)	15 days	Wed 8/10/16	Tue 8/30/16	0%	555	565,522
557	02-SUBS		Install APC At Ceilings-Pool Admin/Lifeguard/Storage & Main Corridor	7 days	Wed 8/10/16	Thu 8/18/16	0%	555	558
558	02-SUBS		Install Tile At Floors & Walls-Pool Admin/Lifeguard/Storage & Main Corridor	15 days	Fri 8/19/16	Thu 9/8/16	0%	557	559
559	02-SUBS		Paint Ceilings & Walls-Pool Admin/Lifeguard/Storage & Main Corridor	5 days	Fri 9/9/16	Thu 9/15/16	0%	558	560
560	02-SUBS		Install SS Vanities & Toilet Accessories-Pool Admin/Lifeguard/Storage & Main Corridc	4 days	Fri 9/16/16	Wed 9/21/16	0%	559	561
561	02-SUBS		Install Plumbing Fixtures-Pool Admin/Lifeguard/Storage & Main Corridor	5 days	Thu 9/22/16	Wed 9/28/16	0%	560	562
562	02-SUBS		Install MEP & FP Finishes-Pool Admin/Lifeguard/Storage & Main Corridor	5 days	Thu 9/29/16	Wed 10/5/16	0%	561	563
563	02-SUBS		Install Toilet Partitions-Pool Admin/Lifeguard/Storage & Main Corridor	3 days	Thu 10/6/16	Mon 10/10/16	0%	562	564
564	02-SUBS		Final Paint-Pool Admin/Lifeguard/Storage & Main Corridor	4 days	Tue 10/11/16	Fri 10/14/16	0%	563	565
565	00-A & P		Pre-Punch-Pool Admin/Lifeguard/Storage & Main Corridor	5 days	Mon 10/17/16	Fri 10/21/16	0%	564,556	473
566	**02-SUBS**		***8 Lane Lap Pool Construction (Interior Finishes & Fit-out)***	**126 days**	**Thu 6/30/16**	**Thu 12/22/16**	**0%**		
567	02-SUBS		Install Pool Drain Lines Back To Pool Mechanical	6 days	Thu 6/30/16	Thu 7/7/16	0%	312,531	568
568	02-SUBS		Form Gutter System For Rim Flow At Lap Pool	8 days	Fri 7/8/16	Tue 7/19/16	0%	567	569SS,570
569	02-SUBS		Install Drain Pipe, Inserts and Anchors	2 days	Fri 7/8/16	Mon 7/11/16	0%	568SS	570
570	02-SUBS		Pour Lap Pool Gutters	4 days	Wed 7/20/16	Mon 7/25/16	0%	569,568	571

EXHIBIT ____ - PROJECT SCHEDULE
CENTRAL DENVER RECREATION CENTER

ID	RESP	LESTON	Task Name	Duration	Start	Finish	% Comp	Predecessors	Successors
571	02-SUBS		Fine Grade Lap Pool top Of Wall For Rim Flow	5 days	Tue 7/26/16	Mon 8/1/16	0%	570	572
572	02-SUBS		Install C701 Tile and Field Tile For Gutter System Lap Pool	10 days	Tue 8/2/16	Mon 8/15/16	0%	571,463	573
573	02-SUBS		Install Lane Tile & Wall Target Tile Lap Pool	12 days	Tue 8/16/16	Wed 8/31/16	0%	572	574
574	02-SUBS		Back Fill Deck Area	6 days	Thu 9/1/16	Thu 9/8/16	0%	573	575
575	02-SUBS		Install Pool Deck Drains & Tie Into Sump Pump Lap Pool	7 days	Fri 9/9/16	Mon 9/19/16	0%	574	576
576	02-SUBS		Concrete Deck Drains In Place Lap Pool	8 days	Tue 9/20/16	Thu 9/29/16	0%	575	577
577	02-SUBS		Prep SOG Lap Pool Deck	3 days	Fri 9/30/16	Tue 10/4/16	0%	576	578
578	02-SUBS		Place & Finish Concrete Lap Pool Deck	7 days	Wed 10/5/16	Thu 10/13/16	0%	577	579
579	02-SUBS		Prep Pool For Plaster Install Lap Pool	2 days	Fri 10/14/16	Mon 10/17/16	0%	578	580
580	02-SUBS	M/S	Start Up Lap Pool Mechanical Units	0 days	Mon 11/21/16	Mon 11/21/16	0%	579,691	581,693,692
581	02-SUBS		Plaster Lap Pool	3 days	Tue 11/22/16	Thu 11/24/16	0%	580,691SS+7 days	582
582	02-SUBS		Fill Lap Pool & Start Up Pool Mechanical Equipment	3 days	Fri 11/25/16	Tue 11/29/16	0%	581,691	583
583	02-SUBS		Start Up Pool Euipment Pool Mech Lap Pool	3 days	Wed 11/30/16	Fri 12/2/16	0%	582,497,490,491	584
584	02-SUBS		Install Pool Deck Equipment Ladders, Dive Boards Etc At Lap Pool	3 days	Mon 12/5/16	Wed 12/7/16	0%	583,160	585
585	02-SUBS		Final Clean Pool & Pool Deck Lap Pool	2 days	Thu 12/8/16	Fri 12/9/16	0%	584	586
586	00-TEAM		QC & Pre Punch Lap Pool	1 day	Mon 12/12/16	Mon 12/12/16	0%	585	587
587	99-ALL		Complete QC & Pre-Punch Items Lap Pool	5 days	Tue 12/13/16	Mon 12/19/16	0%	586	588
588	02-SUBS		Final Inspection Pool Design Team Lap Pool	3 days	Tue 12/20/16	Thu 12/22/16	0%	587	589
589	02-SUBS	M/S	Lap Pool Complete	0 days	Thu 12/22/16	Thu 12/22/16	0%	588	471
590	**02-SUBS**		***Leisure Pool, Therapy Pool & Slide Construction (Interior Finishes & Fit-out)***	**84 days**	**Wed 10/5/16**	**Mon 1/30/17**	**0%**		
591	02-SUBS		Form Gutter System For Rim Flow At Leisure Pool	5 days	Wed 10/5/16	Tue 10/11/16	0%	333,531	592SS,593FF+1 day
592	02-SUBS		Install Drain Pipe, Inserts and Anchors Leisure Pool Gutters	2 days	Wed 10/5/16	Thu 10/6/16	0%	591SS	593
593	02-SUBS		Pour Leisure Pool Gutters	4 days	Fri 10/7/16	Wed 10/12/16	0%	592,591FF+1 day	594
594	02-SUBS		Fine Grade Leisure Pool top Of Wall For Rim Flow	5 days	Thu 10/13/16	Wed 10/19/16	0%	593	595
595	02-SUBS		Install C701 Tile and Field Tile For Gutter System Leisure Pool	8 days	Thu 10/20/16	Mon 10/31/16	0%	594,464	596
596	02-SUBS		Install Lane Tile & Wall Target Tile Leisure Pool	7 days	Tue 11/1/16	Wed 11/9/16	0%	595	597
597	02-SUBS		Back Fill Deck Area Leisure Pool	4 days	Thu 11/10/16	Tue 11/15/16	0%	596	598
598	02-SUBS		Install Pool Deck Drains & Tie Into Sump Pump Leisure Pool	4 days	Wed 11/16/16	Mon 11/21/16	0%	597	599
599	02-SUBS		Concrete Deck Drains In Place Leisure Pool	3 days	Tue 11/22/16	Thu 11/24/16	0%	598	600
600	02-SUBS		Prep SOG & built-in components of play features Leisure Pool Deck	3 days	Fri 11/25/16	Tue 11/29/16	0%	599	601
601	02-SUBS		Place & Finish Concrete Leisure Pool Deck	5 days	Wed 11/30/16	Tue 12/6/16	0%	600	602
602	02-SUBS		Pool Slide Arrives On Site Leisure	1 day	Wed 12/7/16	Wed 12/7/16	0%	601,162	603
603	02-SUBS		Erect Slide Tower Leisure Pool	3 days	Thu 12/8/16	Mon 12/12/16	0%	602	604
604	02-SUBS		Install Pool Slide Leisure Pool	4 days	Tue 12/13/16	Fri 12/16/16	0%	603	605
605	02-SUBS		Tie In Pool Piping At Slide Tower Leisure Pool	3 days	Mon 12/19/16	Wed 12/21/16	0%	604	606
606	02-SUBS		Wax & Polish Slide Plume Leisure Pool	3 days	Thu 12/22/16	Mon 12/26/16	0%	605	607
607	02-SUBS		Test & Adjust Pool Slide Leisure Pool	3 days	Tue 12/27/16	Thu 12/29/16	0%	606	608
608	00-TEAM		QC and Punch Pool Slide Leisure Pool	1 day	Fri 12/30/16	Fri 12/30/16	0%	607	609
609	02-SUBS		Final Inspection Pool Slide Leisure Pool	3 days	Mon 1/2/17	Wed 1/4/17	0%	608	610
610	02-SUBS		Prep Pool For Plaster Install including built-in components of play features Leisure Pool	2 days	Thu 1/5/17	Fri 1/6/17	0%	609	611
611	02-SUBS	M/S	Start Up Leisure Pool Mechanical Units	0 days	Fri 1/6/17	Fri 1/6/17	0%	610,691	612,693,692
612	02-SUBS		Plaster Leisure Pool	3 days	Mon 1/9/17	Wed 1/11/17	0%	611	613,614
613	02-SUBS		Start Up Pool Euipment Pool Mech Leisure Pool	2 days	Thu 1/12/17	Fri 1/13/17	0%	612	615
614	02-SUBS		Surface mounted play features Leisure pool	2 days	Thu 1/12/17	Fri 1/13/17	0%	612,161	615
615	02-SUBS		Fill Leisure Pool & Start Up Pool Mechanical Equipment	1 day	Mon 1/16/17	Mon 1/16/17	0%	613,691,614,692,693	616
616	02-SUBS		Install Pool Deck Equipment Ladders, Dive Boards Etc At Leisure Pool	3 days	Tue 1/17/17	Thu 1/19/17	0%	615,160	617
617	02-SUBS		Final Clean Pool & Pool Deck Lleisure Pool	2 days	Fri 1/20/17	Mon 1/23/17	0%	616	618
618	00-TEAM		QC & Pre Punch Leisure Pool	1 day	Tue 1/24/17	Tue 1/24/17	0%	617	619
619	99-ALL		Complete QC & Pre-Punch Items Leisure Pool	2 days	Wed 1/25/17	Thu 1/26/17	0%	618	620
620	02-SUBS		Final Inspection Pool Design Team Leisure Pool	2 days	Fri 1/27/17	Mon 1/30/17	0%	619	621
621	02-SUBS	M/S	Leisure Pool Complete	0 days	Mon 1/30/17	Mon 1/30/17	0%	620	472FF+12 days
622	**02-SUBS**		***Vertical Circulation Interior Finishes & Fit-out***	**160 days**	**Thu 5/26/16**	**Wed 1/4/17**	**0%**		
623	**02-SUBS**		**Elevator**	**40 days**	**Tue 11/8/16**	**Mon 1/2/17**	**0%**		
624	02-SUBS		Rough In Elevator Rails	4 days	Tue 11/8/16	Fri 11/11/16	0%	462,142,519	625,451,452
625	02-SUBS		Rough In Elevator Doors	5 days	Mon 11/14/16	Fri 11/18/16	0%	624,519	626
626	02-SUBS		Install Car Platform	7 days	Mon 11/21/16	Tue 11/29/16	0%	625	627
627	02-SUBS		Install Fire Protection In Elevator Shaft	2 days	Wed 11/30/16	Thu 12/1/16	0%	626	628
628	02-SUBS		Rough In Elevator Equipment	8 days	Fri 12/2/16	Tue 12/13/16	0%	627	629
629	02-SUBS		Install Car Finishes	6 days	Wed 12/14/16	Wed 12/21/16	0%	628	630
630	02-SUBS		Sync Elevator With Fire Alarm (need City's phone lines with dedicated line available)	3 days	Thu 12/22/16	Mon 12/26/16	0%	629	631
631	02-SUBS		Complete Elevator Install & Ready For Inspection	5 days	Tue 12/27/16	Mon 1/2/17	0%	630,523FF+1 day	471
632	**02-SUBS**		**Main Stair #015 (SW) & Elevator Shaft-Lower Level to Roof Interior Finishes & Fit-out**	**160 days**	**Thu 5/26/16**	**Wed 1/4/17**	**0%**		
633	02-SUBS		Install metal stair-Main Stair #015 (SW)	4 days	Thu 5/26/16	Tue 5/31/16	0%	370,353	634
634	02-SUBS		Prep & Pour stair pans & landings-Main Stair #015 (SW)	1 day	Wed 6/1/16	Wed 6/1/16	0%	633	635
635	02-SUBS		Protect stair pans & landings-Main Stair #015 (SW)	1 day	Thu 6/2/16	Thu 6/2/16	0%	634	637,636
636	02-SUBS		Unfinished stair in use for workers & material handling #015 (SW)	112 days	Fri 6/3/16	Mon 11/7/16	0%	635	637
637	02-SUBS		Frame drywall-Main Stair (SW)-Defer as long as possible in this main stair #015	4 days	Tue 11/8/16	Fri 11/11/16	0%	635,636	638,641,640
638	02-SUBS		Electrical & fire alarm rough-in-Main Stair #015 (SW)	10 days	Mon 11/14/16	Fri 11/25/16	0%	637,462	639,641
639	02-SUBS		Insulate drywall-Main Stair #015 (SW)	2 days	Mon 11/28/16	Tue 11/29/16	0%	638	641
640	02-SUBS		Roof drain leaders (if any in this stairwell's walls)-Main Stair #015 (SW)	3 days	Mon 11/14/16	Wed 11/16/16	0%	637	641
641	02-SUBS		Inspections-Main Stair #015 (SW)	2 days	Wed 11/30/16	Thu 12/1/16	0%	640,639,638,637	642
642	02-SUBS		Scaffold & Hang drywall-Main Stair #015 (SW)	4 days	Fri 12/2/16	Wed 12/7/16	0%	641	643
643	02-SUBS		Tape & finish drywall-Main Stair #015 (SW)	6 days	Thu 12/8/16	Thu 12/15/16	0%	642	644
644	02-SUBS		Prime & finish paint walls, ceilings & stair members-Main Stair #015 (SW)	5 days	Fri 12/16/16	Thu 12/22/16	0%	643	645,648,647,646
645	02-SUBS		Standpipes-Main Stair #015 (SW)	2 days	Fri 12/23/16	Mon 12/26/16	0%	644	646,649,647
646	02-SUBS		Light fixtures & exit lighting-Main Stair #015 (SW)	3 days	Tue 12/27/16	Thu 12/29/16	0%	645,644	649
647	02-SUBS		Sprinkler heads-Main Stair #015 (SW)	2 days	Tue 12/27/16	Wed 12/28/16	0%	644,645	649
648	02-SUBS		Diffusers/registers & grilles-Main Stair #015 (SW)	2 days	Fri 12/23/16	Mon 12/26/16	0%	644	649
649	02-SUBS		Remove stair protection-Main Stair #015 (SW)	1 day	Fri 12/30/16	Fri 12/30/16	0%	648,645,646,647	651,650

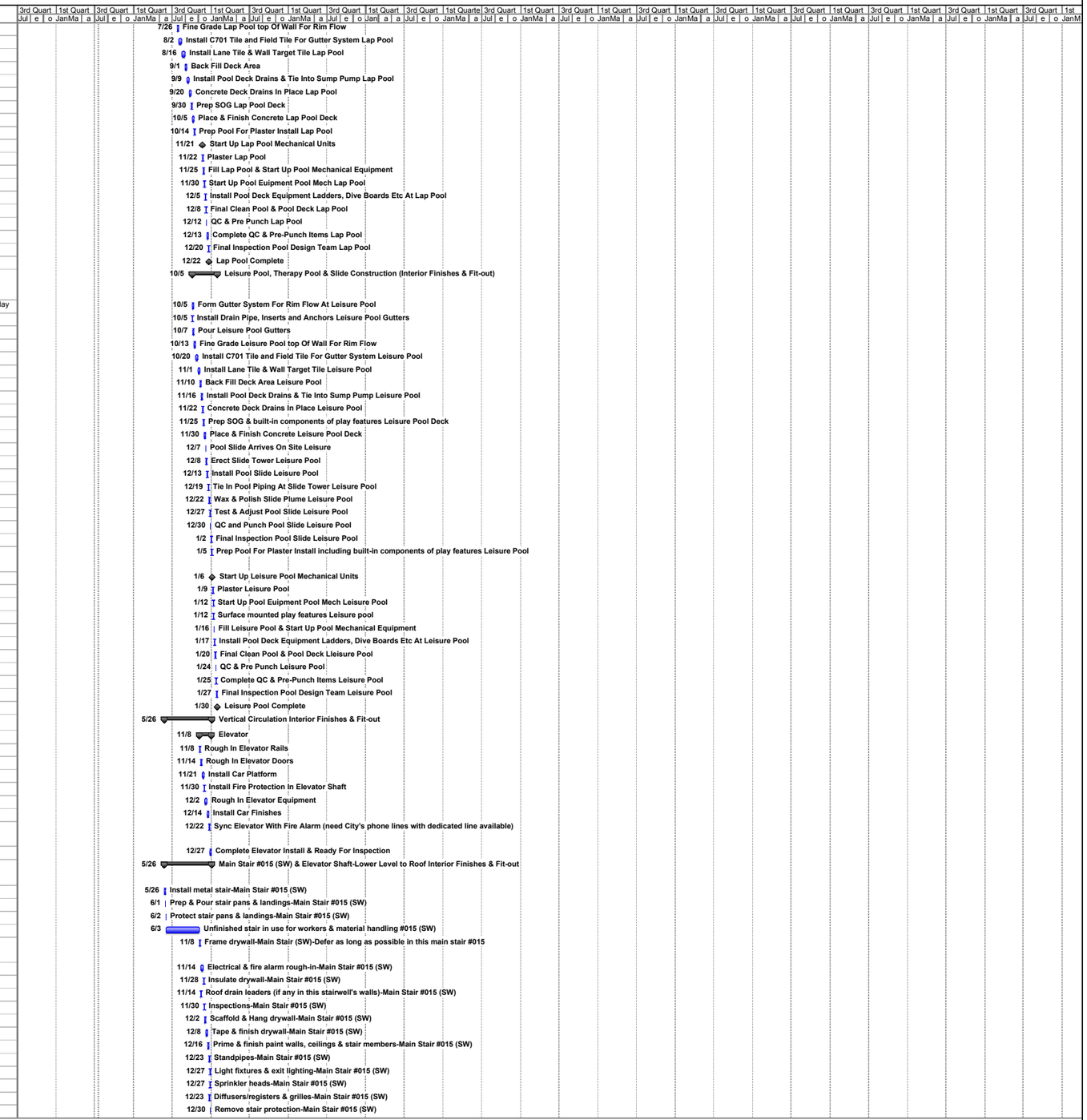


EXHIBIT ____ - PROJECT SCHEDULE
CENTRAL DENVER RECREATION CENTER

ID	RESP	LESTON	Task Name	Duration	Start	Finish	% Comp	Predecessors	Successors
650	02-SUBS		Install CUH-3 & TF-4 & terminate power to them at Main Stair #015 (SW)	2 days	Mon 1/2/17	Tue 1/3/17	0%	649	651FF+1 day
651	02-SUBS		Stair tread & landing finishes (if any)-Main Stair #015 (SW)	2 days	Tue 1/3/17	Wed 1/4/17	0%	649,650FF+1 day	652
652	99-ALL	M/S	Stairwell ready for pre-punch-Main Stair #015 (SW)	0 days	Wed 1/4/17	Wed 1/4/17	0%	651	471
653	**02-SUBS**		**NW Exterior Steel Grate Stair (Lower Level to 2nd Level) Interior Finishes & Fit-out**	**160 days**	**Thu 5/26/16**	**Wed 1/4/17**	**0%**		
654	02-SUBS		Install metal stair-NW Exterior Steel Grate Stair	4 days	Thu 5/26/16	Tue 5/31/16	0%	353,363	655
655	02-SUBS		Prime & finish paint stair members requiring painted finish-NW Exterior Steel Grate Stair	5 days	Wed 6/1/16	Tue 6/7/16	0%	654	656
656	02-SUBS		Finished stair in use for workers & material handling-NW Exterior Steel Grate Stair	146 days	Wed 6/8/16	Wed 12/28/16	0%	655	658,657
657	02-SUBS		Exterior light fixtures-NW Exterior Steel Grate Stair	3 days	Thu 12/29/16	Mon 1/2/17	0%	656	659,658
658	02-SUBS		Touch-up paint damaged stair finishes on steel items (if any)-NW Exterior Steel (	2 days	Tue 1/3/17	Wed 1/4/17	0%	656,657	659
659	99-ALL	M/S	Stairwell ready for pre-punch-NW Exterior Steel Grate Stair	0 days	Wed 1/4/17	Wed 1/4/17	0%	658,657	471
660	**02-SUBS**		**East Stair #116 (Lower Level to Mezzanine for Track Alternate) Interior Finishes & Fit-out**	**160 days**	**Thu 5/26/16**	**Wed 1/4/17**	**0%**		
661	02-SUBS		Install metal stair-East Stair #116	4 days	Thu 5/26/16	Tue 5/31/16	0%	353,365	662
662	02-SUBS		Prep & Pour stair pans & landings-East Stair #116	1 day	Wed 6/1/16	Wed 6/1/16	0%	661	663
663	02-SUBS		Protect stair pans & landings-East Stair #116	1 day	Thu 6/2/16	Thu 6/2/16	0%	662	664
664	02-SUBS		Frame drywall-East Stair #116	4 days	Fri 6/3/16	Wed 6/8/16	0%	663	666,668,665
665	02-SUBS		Roof drain leaders (if any in this stairwell's walls)-East Stair #116	3 days	Thu 6/9/16	Mon 6/13/16	0%	664	668
666	02-SUBS		Electrical & fire alarm rough-in-East Stair #116	10 days	Wed 8/31/16	Tue 9/13/16	0%	664,467,468	667,668
667	02-SUBS		Insulate drywall-East Stair #116	2 days	Wed 9/14/16	Thu 9/15/16	0%	666	668
668	02-SUBS		Inspections-East Stair #116	2 days	Fri 9/16/16	Mon 9/19/16	0%	664,666,667,665	669
669	02-SUBS		Scaffold & Hang drywall-East Stair #116	4 days	Tue 9/20/16	Fri 9/23/16	0%	668	670
670	02-SUBS		Tape & finish drywall-East Stair #116	6 days	Mon 9/26/16	Mon 10/3/16	0%	669	671
671	02-SUBS		Prime & finish paint walls, ceilings & stair members-East Stair #116	5 days	Tue 10/4/16	Mon 10/10/16	0%	670	675,673,676,672
672	02-SUBS		Light fixtures & exit lighting-East Stair #116	3 days	Thu 10/13/16	Mon 10/17/16	0%	671,675	677
673	02-SUBS		Diffusers/registers & grilles-East Stair #116	2 days	Tue 10/11/16	Wed 10/12/16	0%	671	678,677,674SS
674	02-SUBS		Install CUH-2 & terminate power to it #116	2 days	Tue 10/11/16	Wed 10/12/16	0%	673SS	677
675	02-SUBS		Standpipes-East Stair #116	2 days	Tue 10/11/16	Wed 10/12/16	0%	671	672,678,676
676	02-SUBS		Sprinkler heads-East Stair #116	2 days	Thu 10/13/16	Fri 10/14/16	0%	671,675	677
677	02-SUBS		Finished stair in use for workers & material handling-East Stair #116	54 days	Tue 10/18/16	Fri 12/30/16	0%	673,676,672,674	678
678	02-SUBS		Remove stair protection-East Stair #116	1 day	Mon 1/2/17	Mon 1/2/17	0%	675,673,677	679
679	02-SUBS		Stair tread & landing finishes (if any)-East Stair #116	2 days	Tue 1/3/17	Wed 1/4/17	0%	678	680
680	99-ALL	M/S	Stairwell ready for pre-punch-East Stair #116	0 days	Wed 1/4/17	Wed 1/4/17	0%	679	471
681	**02-SUBS**		**FIRST LEVEL INTERIOR FINISHES & FIT-OUT**	**299 days**	**Mon 12/21/15**	**Thu 2/9/17**	**0%**		
682	**02-SUBS**		***Exterior Mechanical Well (PDU Units) Interior/Exterior Finishes & Fit-out***	**135 days**	**Mon 7/4/16**	**Fri 1/6/17**	**0%**		
683	02-SUBS		Form, reinf, place, strip mech well housekeeping pads (if any)	3 days	Mon 7/4/16	Wed 7/6/16	0%	399,138FS-4 days	684,694,685,686,687,6
684	02-SUBS		Set curbs & PDU-1 & 2 Installation (attempt to get set while steel erector's crane is on	5 days	Thu 7/7/16	Wed 7/13/16	0%	138,683	690,386FF,685
685	02-SUBS		Set curbs & AHU-1	2 days	Thu 7/14/16	Fri 7/15/16	0%	683,684	690,686
686	02-SUBS		Set curbs & RTU-1 & 2	3 days	Mon 7/18/16	Wed 7/20/16	0%	683,685	690,687
687	02-SUBS		Set curbs Coolerado evaporative coolers	2 days	Thu 7/21/16	Fri 7/22/16	0%	683,686	690,688
688	02-SUBS		Set curbs & EF-3 & 6 (couldn't locate EF-2 on SD plans)	2 days	Mon 7/25/16	Tue 7/26/16	0%	683,687	689
689	02-SUBS		Set curbs & EF-4 & 5 (all plastic type) - if actually mounted on the roof	2 days	Wed 7/27/16	Thu 7/28/16	0%	683,688	690
690	02-SUBS		Final hook-up of PDU, AHU,RTU, Ev Clr & EF duct, piping, electrical, controls, etc.	30 days	Fri 7/29/16	Thu 9/8/16	0%	684,685,686,687,689	691,692,693
691	02-SUBS		Start-up & testing of PDU and associated systems	10 days	Tue 11/8/16	Mon 11/21/16	0%	690,519,490	582,615,581SS+7 days
692	02-SUBS	M/S	Permanent Heating Functional	0 days	Fri 1/6/17	Fri 1/6/17	0%	691,690,520,580,611	615
693	02-SUBS	M/S	Permanent Cooling Functional	0 days	Fri 1/6/17	Fri 1/6/17	0%	690,691,520,580,611	615
694	02-SUBS		Generator & ATS Installation (attempt to get set while steel erector's crane is onsite)	5 days	Thu 7/7/16	Wed 7/13/16	0%	683,166	695,386FF
695	02-SUBS		Final hook-up of Generator & ATS	15 days	Thu 7/14/16	Wed 8/3/16	0%	694,513,514,515	696,519
696	02-SUBS		Start-up & load testing of Generator	5 days	Tue 11/8/16	Mon 11/14/16	0%	695,519	472
697	**02-SUBS**		***Administration Offices Interior Finishes & Fit-out***	**109 days**	**Mon 7/4/16**	**Thu 12/1/16**	**0%**		
698	02-SUBS		Layout Interior Walls-Administration Offices	2 days	Mon 7/4/16	Tue 7/5/16	0%	399	699,713
699	02-SUBS		Install Large Duct-Administration Offices	7 days	Wed 7/6/16	Thu 7/14/16	0%	698	700
700	02-SUBS		Install Interior Walls-Administration Offices	14 days	Fri 7/15/16	Wed 8/3/16	0%	699	701SS,703
701	02-SUBS		Rough In MEP & FP In Walls & Ceiling-Administration Offices	14 days	Fri 7/15/16	Wed 8/3/16	0%	700SS	702
702	02-SUBS		Inspect Above Ceilings-Administration Offices	3 days	Thu 8/4/16	Mon 8/8/16	0%	701	703
703	02-SUBS		Rock Tape & Finish Walls-Administration Offices	15 days	Tue 8/9/16	Mon 8/29/16	0%	702,700,462	704
704	02-SUBS		Frame Soffits-Administration Offices	8 days	Tue 8/30/16	Thu 9/8/16	0%	703	705
705	02-SUBS		Frame Ceilings-Administration Offices	6 days	Fri 9/9/16	Fri 9/16/16	0%	704	707,706
706	02-SUBS		Rock Tape & Finish Ceilings/Soffits-Administration Offices	15 days	Mon 9/19/16	Fri 10/7/16	0%	705	707
707	02-SUBS		Install MEP & FP Finishes-Administration Offices	5 days	Mon 10/10/16	Fri 10/14/16	0%	705,706	709,708
708	02-SUBS		ACT Ceiling Grid, Tiles,MEP Fin's & Ceiling Inspections-Administration Offices	10 days	Mon 10/17/16	Fri 10/28/16	0%	707	709
709	02-SUBS		Install Floor Finishes & casework-Administration Offices	15 days	Mon 10/31/16	Fri 11/18/16	0%	707,708	710
710	02-SUBS		Final Paint Entry-Administration Offices	4 days	Mon 11/21/16	Thu 11/24/16	0%	709	711
711	00-A & P		Pre-Punch-Administration Offices	5 days	Fri 11/25/16	Thu 12/1/16	0%	710	472
712	**02-SUBS**		***Flexible Classrom Interior Finishes & Fit-out***	**109 days**	**Wed 7/6/16**	**Mon 12/5/16**	**0%**		
713	02-SUBS		Layout Interior Walls-Flexible Classrom	2 days	Wed 7/6/16	Thu 7/7/16	0%	399,698	714,728
714	02-SUBS		Install Large Duct-Flexible Classrom	7 days	Fri 7/8/16	Mon 7/18/16	0%	713	715
715	02-SUBS		Install Interior Walls-Flexible Classrom	14 days	Tue 7/19/16	Fri 8/5/16	0%	714	716SS,718
716	02-SUBS		Rough In MEP & FP In Walls & Ceiling-Flexible Classrom	14 days	Tue 7/19/16	Fri 8/5/16	0%	715SS	717
717	02-SUBS		Inspect Above Ceilings-Flexible Classrom	3 days	Mon 8/8/16	Wed 8/10/16	0%	716	718
718	02-SUBS		Rock Tape & Finish Walls-Flexible Classrom	15 days	Thu 8/11/16	Wed 8/31/16	0%	717,715,462	719
719	02-SUBS		Frame Soffits-Flexible Classrom	8 days	Thu 9/1/16	Mon 9/12/16	0%	718	720
720	02-SUBS		Frame Ceilings-Flexible Classrom	6 days	Tue 9/13/16	Tue 9/20/16	0%	719	722,721
721	02-SUBS		Rock Tape & Finish Ceilings/Soffits-Flexible Classrom	15 days	Wed 9/21/16	Tue 10/11/16	0%	720	722
722	02-SUBS		Install MEP & FP Finishes-Flexible Classrom	5 days	Wed 10/12/16	Tue 10/18/16	0%	720,721	724,723
723	02-SUBS		ACT Ceiling Grid, Tiles,MEP Fin's & Ceiling Inspections-Flexible Classrom	10 days	Wed 10/19/16	Tue 11/1/16	0%	722	724
724	02-SUBS		Install Floor Finishes & casework-Flexible Classrom	15 days	Wed 11/2/16	Tue 11/22/16	0%	722,723	725
725	02-SUBS		Final Paint Entry-Flexible Classrom	4 days	Wed 11/23/16	Mon 11/28/16	0%	724	726
726	00-A & P		Pre-Punch-Flexible Classrom	5 days	Tue 11/29/16	Mon 12/5/16	0%	725	472
727	**02-SUBS**		***Child Watch Interior Finishes & Fit-out***	**116 days**	**Fri 7/8/16**	**Fri 12/16/16**	**0%**		

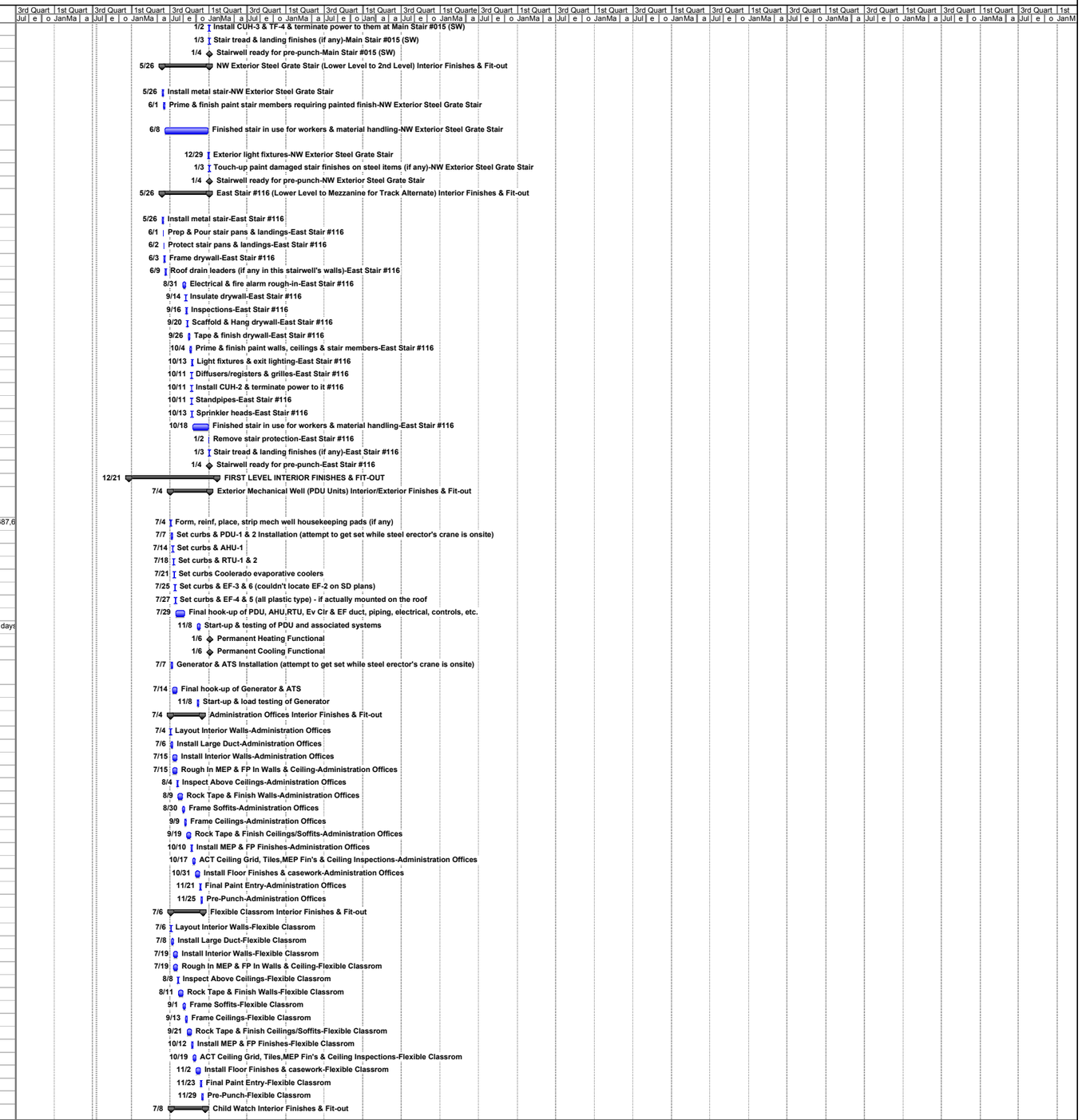


EXHIBIT ____ - PROJECT SCHEDULE
CENTRAL DENVER RECREATION CENTER

ID	RESP	LESTON	Task Name	Duration	Start	Finish	% Comp	Predecessors	Successors
728	02-SUBS		Layout Interior Walls-Child Watch	2 days	Fri 7/8/16	Mon 7/11/16	0%	399,713	729,743
729	02-SUBS		Install Large Duct-Child Watch	7 days	Tue 7/12/16	Wed 7/20/16	0%	728	730
730	02-SUBS		Install Interior Walls-Child Watch	14 days	Thu 7/21/16	Tue 8/9/16	0%	729	731SS,733
731	02-SUBS		Rough In MEP & FP In Walls & Ceiling-Child Watch	14 days	Thu 7/21/16	Tue 8/9/16	0%	730SS	732
732	02-SUBS		Inspect Above Ceilings-Child Watch	3 days	Wed 8/10/16	Fri 8/12/16	0%	731	733
733	02-SUBS		Rock Tape & Finish Walls-Child Watch	15 days	Mon 8/15/16	Fri 9/2/16	0%	732,730,462	734
734	02-SUBS		Frame Soffits-Child Watch	8 days	Mon 9/5/16	Wed 9/14/16	0%	733	735
735	02-SUBS		Frame Ceilings-Child Watch	6 days	Thu 9/15/16	Thu 9/22/16	0%	734	737,736
736	02-SUBS		Rock Tape & Finish Ceilings/Soffits-Child Watch	15 days	Fri 9/23/16	Thu 10/13/16	0%	735	737
737	02-SUBS		Install MEP & FP Finishes-Child Watch	5 days	Fri 10/14/16	Thu 10/20/16	0%	735,736	739,738
738	02-SUBS		ACT Ceiling Grid, Tiles,MEP Fin's & Ceiling Inspections-Child Watch	10 days	Fri 10/21/16	Thu 11/3/16	0%	737	739
739	02-SUBS		Install Floor Finishes & casework including MDF stained/painted inlay feature work that has been added-Child Watch	20 days	Fri 11/4/16	Thu 12/1/16	0%	737,738	740
740	02-SUBS		Final Paint Entry-Child Watch	6 days	Fri 12/2/16	Fri 12/9/16	0%	739	741
741	00-A & P		Pre-Punch-Child Watch	5 days	Mon 12/12/16	Fri 12/16/16	0%	740	472
742	**02-SUBS**		***Restrooms & Janitor's Closet Interior Finishes & Fit-out***	**106 days**	**Tue 7/12/16**	**Tue 12/6/16**	**0%**		
743	02-SUBS		Layout Interior Walls-RR's & JC	2 days	Tue 7/12/16	Wed 7/13/16	0%	399,728	744,760
744	02-SUBS		Install Large Duct-RR's & JC	7 days	Thu 7/14/16	Fri 7/22/16	0%	743	745
745	02-SUBS		Install Interior Walls-RR's & JC	14 days	Mon 7/25/16	Thu 8/11/16	0%	744	746SS,748
746	02-SUBS		Rough In MEP & FP In Walls & Ceiling-RR's & JC	14 days	Mon 7/25/16	Thu 8/11/16	0%	745SS	747
747	02-SUBS		Inspect Above Ceilings-RR's & JC	3 days	Fri 8/12/16	Tue 8/16/16	0%	746	748
748	02-SUBS		Rock Tape & Finish Walls-RR's & JC	15 days	Wed 8/17/16	Tue 9/6/16	0%	747,745,462	749
749	02-SUBS		Frame Soffits-RR's & JC	8 days	Wed 9/7/16	Fri 9/16/16	0%	748	750
750	02-SUBS		Frame Ceilings-RR's & JC	6 days	Mon 9/19/16	Mon 9/26/16	0%	749	752,751
751	02-SUBS		Rock Tape & Finish Ceilings/Soffits-RR's & JC	15 days	Tue 9/27/16	Mon 10/17/16	0%	750	752
752	02-SUBS		Install MEP & FP Finishes-RR's & JC	5 days	Tue 10/18/16	Mon 10/24/16	0%	750,751	754,753
753	02-SUBS		ACT Ceiling Grid, Tiles,MEP Fin's & Ceiling Inspections-RR's & JC	10 days	Tue 10/25/16	Mon 11/7/16	0%	752	755
754	02-SUBS		Install Tile Wall & Floor Finishes & casework-RR's & JC	15 days	Tue 10/25/16	Mon 11/14/16	0%	752	755
755	02-SUBS		Final Paint-RR's & JC	4 days	Tue 11/15/16	Fri 11/18/16	0%	753,754	758,756
756	02-SUBS		Set Plumbing Fixtures-RR's & JC	4 days	Mon 11/21/16	Thu 11/24/16	0%	755	757
757	02-SUBS		Toilet Partitions & Accessories-RR's & JC	3 days	Fri 11/25/16	Tue 11/29/16	0%	756	758
758	00-A & P		Pre-Punch-RR's & JC	5 days	Wed 11/30/16	Tue 12/6/16	0%	755,757	472
759	**02-SUBS**		***FRONT DESK/LOBBY/MAIN ENTRY-Front Desk/Lobby/Main Entry-Interior Finishes & Fit-out***	**84 days**	**Thu 7/14/16**	**Tue 11/8/16**	**0%**		
760	02-SUBS		Layout Interior Walls Entry, Lounge, Offices, Child Watch	2 days	Thu 7/14/16	Fri 7/15/16	0%	399,743	761
761	02-SUBS		Install Large Duct In Entry, Lounge, Offices, Child Watch	7 days	Mon 7/18/16	Tue 7/26/16	0%	760	762
762	02-SUBS		Install Interior Walls Entry, Lounge, Offices, Child Watch	14 days	Wed 7/27/16	Mon 8/15/16	0%	761	763SS,765
763	02-SUBS		Rough In MEP & FP In Walls & Ceiling Entry, Lounge, Offices, Child Watch	14 days	Wed 7/27/16	Mon 8/15/16	0%	762SS	764
764	02-SUBS		Inspect Above Ceilings Entry, Lounge, Offices, Child Watch	3 days	Tue 8/16/16	Thu 8/18/16	0%	763	765
765	02-SUBS		Rock Tape & Finish Walls at Entry, Lounge, Offices, Child Watch	15 days	Fri 8/19/16	Thu 9/8/16	0%	764,762,462	766
766	02-SUBS		Frame Soffits At Entry, Lounge, Offices, Child Watch	8 days	Fri 9/9/16	Tue 9/20/16	0%	765	767
767	02-SUBS		Frame Ceilings at Entry, Lounge, Offices, Child Watch	6 days	Wed 9/21/16	Wed 9/28/16	0%	766	769,768
768	02-SUBS		A&P & Subs fit-out IDF Room #113-Cat-6 Cables brought to room, cable tray hung, power provided for City's equipment, FR plywood mounted on walls where required, lighting installed, door & hardware in place. Concrete sealer after City is finished)	15 days	Thu 9/29/16	Wed 10/19/16	0%	767	522,773
769	02-SUBS		Install MEP & FP Finishes Entry, Lounge, Offices, Child Watch	5 days	Thu 9/29/16	Wed 10/5/16	0%	767	771,770SS+4 days
770	02-SUBS		Install CUH-1 in entry vestibule	1 day	Wed 10/5/16	Wed 10/5/16	0%	769SS+4 days	773
771	02-SUBS		Install Floor Finishes & casework-Entry Area	15 days	Thu 10/6/16	Wed 10/26/16	0%	769	772
772	02-SUBS		Final Paint Entry, Lounge, Offices, Child Watch	4 days	Thu 10/27/16	Tue 11/1/16	0%	771	773
773	00-A & P		Pre-Punch Entry, Lounge, Offices, Child Watch	5 days	Wed 11/2/16	Tue 11/8/16	0%	772,770,768	472
774	**02-SUBS**		***Retail Alternate 3.C (stand-alone +/- 3,000 sf cold/dark shell) Interior Finishes & Fit-out***	**299 days**	**Mon 12/21/15**	**Thu 2/9/17**	**0%**		
775	00-CACD		Make Decision on Retail Alternate 3.C (stand-alone +/- 3,000 sf cold/dark shell)	60 days	Mon 12/21/15	Fri 3/11/16	0%	117	776
776	00-CACD		Retail Alternate 3.C-Award & procure materials (stand-alone +/- 3,000 sf cold/dark shell)	150 days	Mon 3/14/16	Fri 10/7/16	0%	775	777
777	02-SUBS		Structural Excavation, Foundations & Backfill-Retail Cold Dark shell	15 days	Mon 10/10/16	Fri 10/28/16	0%	776	778
778	02-SUBS		MEP Undeground (if part of scope)-Retail Cold Dark shell	5 days	Mon 10/31/16	Fri 11/4/16	0%	777	779
779	02-SUBS		Steel Structure-Retail Cold Dark shell	10 days	Mon 11/7/16	Fri 11/18/16	0%	778	780
780	02-SUBS		Roof Deck-Retail Cold Dark shell	3 days	Mon 11/21/16	Wed 11/23/16	0%	779	781
781	02-SUBS		Prep & pour Slab on Grade (if part of scope)-Retail Cold Dark shell	3 days	Thu 11/24/16	Mon 11/28/16	0%	780	782
782	02-SUBS		Exterior wall framing-Retail Cold Dark shell	10 days	Tue 11/29/16	Mon 12/12/16	0%	781	783
783	02-SUBS		Exterior sheathing-Retail Cold Dark shell	5 days	Tue 12/13/16	Mon 12/19/16	0%	782	787,784
784	02-SUBS		Roof blocking-Retail Cold Dark shell	3 days	Tue 12/20/16	Thu 12/22/16	0%	783	785
785	02-SUBS		Roof curbs-Retail Cold Dark shell	2 days	Fri 12/23/16	Mon 12/26/16	0%	784	786
786	02-SUBS		Roofing system-Retail Cold Dark shell	5 days	Tue 12/27/16	Mon 1/2/17	0%	785	790
787	02-SUBS		Exterior wall insulation-Retail Cold Dark shell	5 days	Tue 12/20/16	Mon 12/26/16	0%	783	788
788	02-SUBS		Exterior wall cladding-Retail Cold Dark shell	20 days	Tue 12/27/16	Mon 1/23/17	0%	787	789
789	02-SUBS		Windows, storefronts & entries-Retail Cold Dark shell	10 days	Tue 1/24/17	Mon 2/6/17	0%	788	790
790	00-A & P		Pre-Punch-Retail Cold Dark shell	3 days	Tue 2/7/17	Thu 2/9/17	0%	789,786	996
791	**02-SUBS**		**SECOND LEVEL INTERIOR FINISHES & FIT-OUT**	**136 days**	**Mon 8/8/16**	**Mon 2/13/17**	**0%**		
792	**02-SUBS**		***Gymnasium & Gym Storage Interior Finishes & Fit-out***	**119 days**	**Wed 8/31/16**	**Mon 2/13/17**	**0%**		
793	02-SUBS		Layout Gymnasium	2 days	Wed 8/31/16	Thu 9/1/16	0%	467,404,468	794
794	02-SUBS		Install Large Duct In Gymnasium	7 days	Fri 9/2/16	Mon 9/12/16	0%	793	795
795	02-SUBS		Rough In MEP & FP In Walls Gymnasium	14 days	Tue 9/13/16	Fri 9/30/16	0%	794	796
796	02-SUBS		Inspect Ceilings Gymnasium	3 days	Mon 10/3/16	Wed 10/5/16	0%	795	797
797	02-SUBS		Rock Tape & Finish Walls Gymnasium	15 days	Thu 10/6/16	Wed 10/26/16	0%	796	798
798	02-SUBS		Frame Soffits At Gymnasium	8 days	Thu 10/27/16	Mon 11/7/16	0%	797	799
799	02-SUBS		Frame Ceilings at Gymnasium	6 days	Tue 11/8/16	Tue 11/15/16	0%	798	800
800	02-SUBS		Install MEP & FP Finishes Gymnasium	5 days	Wed 11/16/16	Tue 11/22/16	0%	799	801
801	02-SUBS		Install Light Fixtures In Ceiling At Gymnasium	5 days	Wed 11/23/16	Tue 11/29/16	0%	800	802
802	02-SUBS		Install Basketball Backstops In Ceiling Gymnasium	4 days	Wed 11/30/16	Mon 12/5/16	0%	801	803
803	02-SUBS		Install Floor Sleeves Gymnasium	2 days	Tue 12/6/16	Wed 12/7/16	0%	802	804
804	02-SUBS		Final Paint Ceiling Gymnasium	4 days	Thu 12/8/16	Tue 12/13/16	0%	803	805

EXHIBIT ____ - PROJECT SCHEDULE
CENTRAL DENVER RECREATION CENTER

ID	RESP	LESTON	Task Name	Duration	Start	Finish	% Comp	Predecessors	Successors
805	02-SUBS		Bring Wood Flooring To Project To Acclimate Gymnasium	1 day	Wed 12/14/16	Wed 12/14/16	0%	804,921	806
806	02-SUBS		Start Up Mechanical Equipment To Maintain Temp For Wood Acclimation Gymnasium	1 day	Thu 12/15/16	Thu 12/15/16	0%	805,527,468,447	807
807	02-SUBS		Install Wood Flooring Underlayment Gymnasium	8 days	Fri 12/16/16	Tue 12/27/16	0%	806	808
808	02-SUBS		Install Wood Flooring Gymnasium	8 days	Wed 12/28/16	Fri 1/6/17	0%	807	809
809	02-SUBS		Sand & Prep Wood Flooring For Finish Gymnasium	4 days	Mon 1/9/17	Thu 1/12/17	0%	808	810
810	02-SUBS		Seal Wood Floor Gymnasium	2 days	Fri 1/13/17	Mon 1/16/17	0%	809	811
811	02-SUBS		Stripe and Paint Wood Floor Gymnasium	5 days	Tue 1/17/17	Mon 1/23/17	0%	810	812
812	02-SUBS		Final Coats Wood Floor Finish Gymnasium	5 days	Tue 1/24/17	Mon 1/30/17	0%	811	813
813	02-SUBS		Final Paint Gymnasium	4 days	Tue 1/31/17	Fri 2/3/17	0%	812	814
814	00-A & P		Pre-Punch Gymnasium	6 days	Mon 2/6/17	Mon 2/13/17	0%	813	472FF+3 days
815	**02-SUBS**		***Group Exercise Interior Finishes & Fit-out***	**99 days**	**Mon 8/8/16**	**Thu 12/22/16**	**0%**		
816	02-SUBS		Layout Interior Walls-Group Excercise	2 days	Mon 8/8/16	Tue 8/9/16	0%	462,404,916	817,831
817	02-SUBS		Install Large Duct-Group Excercise	7 days	Wed 8/10/16	Thu 8/18/16	0%	816	818
818	02-SUBS		Install Interior Walls-Group Excercise	14 days	Fri 8/19/16	Wed 9/7/16	0%	817	819SS,821
819	02-SUBS		Rough In MEP & FP In Walls & Ceiling-Group Excercise	14 days	Fri 8/19/16	Wed 9/7/16	0%	818SS	820
820	02-SUBS		Inspect Above Ceilings-Group Excercise	3 days	Thu 9/8/16	Mon 9/12/16	0%	819	821
821	02-SUBS		Rock Tape & Finish Walls-Group Excercise	15 days	Tue 9/13/16	Mon 10/3/16	0%	820,818	822
822	02-SUBS		Frame Soffits-Group Excercise	8 days	Tue 10/4/16	Thu 10/13/16	0%	821	823
823	02-SUBS		Frame Ceilings-Group Excercise	6 days	Fri 10/14/16	Fri 10/21/16	0%	822	825,824
824	02-SUBS		Rock Tape & Finish Ceilings/Soffits-Group Excercise	15 days	Mon 10/24/16	Fri 11/11/16	0%	823	825
825	02-SUBS		Install MEP & FP Finishes-Group Excercise	5 days	Mon 11/14/16	Fri 11/18/16	0%	823,824	827,826
826	02-SUBS		ACT Ceiling Grid, Tiles,MEP Fin's & Ceiling Inspections-Group Excercise	10 days	Mon 11/21/16	Fri 12/2/16	0%	825	828
827	02-SUBS		Install Floor Finishes & casework-Group Excercise	15 days	Mon 11/21/16	Fri 12/9/16	0%	825	828
828	02-SUBS		Final Paint-Group Excercise	4 days	Mon 12/12/16	Thu 12/15/16	0%	826,827	829
829	00-A & P		Pre-Punch-Group Excercise	5 days	Fri 12/16/16	Thu 12/22/16	0%	828	472
830	**02-SUBS**		***Restrooms & Storage Interior Finishes & Fit-out***	**106 days**	**Wed 8/10/16**	**Wed 1/4/17**	**0%**		
831	02-SUBS		Layout Interior Walls-RR's & Storage	2 days	Wed 8/10/16	Thu 8/11/16	0%	462,816,404,916	832,848
832	02-SUBS		Install Large Duct-RR's & Storage	7 days	Fri 8/12/16	Mon 8/22/16	0%	831	833
833	02-SUBS		Install Interior Walls-RR's & Storage	14 days	Tue 8/23/16	Fri 9/9/16	0%	832	834SS,836
834	02-SUBS		Rough In MEP & FP In Walls & Ceiling-RR's & Storage	14 days	Tue 8/23/16	Fri 9/9/16	0%	833SS	835
835	02-SUBS		Inspect Above Ceilings-RR's & Storage	3 days	Mon 9/12/16	Wed 9/14/16	0%	834	836
836	02-SUBS		Rock Tape & Finish Walls-RR's & Storage	15 days	Thu 9/15/16	Wed 10/5/16	0%	835,833	837
837	02-SUBS		Frame Soffits-RR's & Storage	8 days	Thu 10/6/16	Mon 10/17/16	0%	836	838
838	02-SUBS		Frame Ceilings-RR's & Storage	6 days	Tue 10/18/16	Tue 10/25/16	0%	837	840,839
839	02-SUBS		Rock Tape & Finish Ceilings/Soffits-RR's & Storage	15 days	Wed 10/26/16	Tue 11/15/16	0%	838	840
840	02-SUBS		Install MEP & FP Finishes-RR's & Storage	5 days	Wed 11/16/16	Tue 11/22/16	0%	838,839	842,841
841	02-SUBS		ACT Ceiling Grid, Tiles,MEP Fin's & Ceiling Inspections-RR's & Storage	10 days	Wed 11/23/16	Tue 12/6/16	0%	840	843
842	02-SUBS		Install Tile Wall & Floor Finishes & casework-RR's & Storage	15 days	Wed 11/23/16	Tue 12/13/16	0%	840	843
843	02-SUBS		Final Paint-RR's & Storage	4 days	Wed 12/14/16	Mon 12/19/16	0%	841,842	846,844
844	02-SUBS		Set Plumbing Fixtures-RR's & Storage	4 days	Tue 12/20/16	Fri 12/23/16	0%	843	845
845	02-SUBS		Toilet Partitions & Accessories-RR's & Storage	3 days	Mon 12/26/16	Wed 12/28/16	0%	844	846
846	00-A & P		Pre-Punch-RR's & Storage	5 days	Thu 12/29/16	Wed 1/4/17	0%	843,845	472
847	**02-SUBS**		***Fitness Studio Interior Finishes & Fit-out***	**99 days**	**Fri 8/12/16**	**Wed 12/28/16**	**0%**		
848	02-SUBS		Layout Interior Walls-Fitness Studio	2 days	Fri 8/12/16	Mon 8/15/16	0%	462,831,404,916	849,864
849	02-SUBS		Install Large Duct-Fitness Studio	7 days	Tue 8/16/16	Wed 8/24/16	0%	848	850
850	02-SUBS		Install Interior Walls-Fitness Studio	14 days	Thu 8/25/16	Tue 9/13/16	0%	849	851SS,853
851	02-SUBS		Rough In MEP & FP In Walls & Ceiling-Fitness Studio	14 days	Thu 8/25/16	Tue 9/13/16	0%	850SS	852
852	02-SUBS		Inspect Above Ceilings-Fitness Studio	3 days	Wed 9/14/16	Fri 9/16/16	0%	851	853
853	02-SUBS		Rock Tape & Finish Walls-Fitness Studio	15 days	Mon 9/19/16	Fri 10/7/16	0%	852,850	855,854
854	02-SUBS		A&P & Subs fit-out IDF Room #213-Cat-6 Cables brought to room, cable tray hung, power provided for City's equipment, FR plywood mounted on walls where required, lighting installed, door & hardware in place. Concrete sealer after City is finished)	15 days	Mon 10/10/16	Fri 10/28/16	0%	853	862
855	02-SUBS		Frame Soffits-Fitness Studio	8 days	Mon 10/10/16	Wed 10/19/16	0%	853	856
856	02-SUBS		Frame Ceilings-Fitness Studio	6 days	Thu 10/20/16	Thu 10/27/16	0%	855	858,857
857	02-SUBS		Rock Tape & Finish Ceilings/Soffits-Fitness Studio	15 days	Fri 10/28/16	Thu 11/17/16	0%	856	858
858	02-SUBS		Install MEP & FP Finishes-Fitness Studio	5 days	Fri 11/18/16	Thu 11/24/16	0%	856,857	860,859
859	02-SUBS		ACT Ceiling Grid, Tiles,MEP Fin's & Ceiling Inspections-Fitness Studio	10 days	Fri 11/25/16	Thu 12/8/16	0%	858	861
860	02-SUBS		Install Floor Finishes & casework-Fitness Studio	15 days	Fri 11/25/16	Thu 12/15/16	0%	858	861
861	02-SUBS		Final Paint-Fitness Studio	4 days	Fri 12/16/16	Wed 12/21/16	0%	859,860	862
862	00-A & P		Pre-Punch-Fitness Studio	5 days	Thu 12/22/16	Wed 12/28/16	0%	861,854	472
863	**02-SUBS**		***Plyometrics Interior Finishes & Fit-out (is it two floors of space or two stories tall?)***	**99 days**	**Tue 8/16/16**	**Fri 12/30/16**	**0%**		
864	02-SUBS		Layout Interior Walls-2nd Lvl Plyometrics	2 days	Tue 8/16/16	Wed 8/17/16	0%	462,848,404,916	865,879
865	02-SUBS		Install Large Duct-2nd Lvl Plyometrics	7 days	Thu 8/18/16	Fri 8/26/16	0%	864	866
866	02-SUBS		Install Interior Walls-2nd Lvl Plyometrics	14 days	Mon 8/29/16	Thu 9/15/16	0%	865	867SS,869
867	02-SUBS		Rough In MEP & FP In Walls & Ceiling-2nd Lvl Plyometrics	14 days	Mon 8/29/16	Thu 9/15/16	0%	866SS	868
868	02-SUBS		Inspect Above Ceilings-2nd Lvl Plyometrics	3 days	Fri 9/16/16	Tue 9/20/16	0%	867	869
869	02-SUBS		Rock Tape & Finish Walls-2nd Lvl Plyometrics	15 days	Wed 9/21/16	Tue 10/11/16	0%	868,866	870
870	02-SUBS		Frame Soffits-2nd Lvl Plyometrics	8 days	Wed 10/12/16	Fri 10/21/16	0%	869	871
871	02-SUBS		Frame Ceilings-2nd Lvl Plyometrics	6 days	Mon 10/24/16	Mon 10/31/16	0%	870	873,872
872	02-SUBS		Rock Tape & Finish Ceilings/Soffits-2nd Lvl Plyometrics	15 days	Tue 11/1/16	Mon 11/21/16	0%	871	873
873	02-SUBS		Install MEP & FP Finishes-2nd Lvl Plyometrics	5 days	Tue 11/22/16	Mon 11/28/16	0%	871,872	875,874
874	02-SUBS		ACT Ceiling Grid, Tiles,MEP Fin's & Ceiling Inspections-2nd Lvl Plyometrics	10 days	Tue 11/29/16	Mon 12/12/16	0%	873	876
875	02-SUBS		Install Floor Finishes & casework-2nd Lvl Plyometrics	15 days	Tue 11/29/16	Mon 12/19/16	0%	873	876
876	02-SUBS		Final Paint Entry-2nd Lvl Plyometrics	4 days	Tue 12/20/16	Fri 12/23/16	0%	874,875	877
877	00-A & P		Pre-Punch-2nd Lvl Plyometrics	5 days	Mon 12/26/16	Fri 12/30/16	0%	876	472
878	**02-SUBS**		***Cardio/Weight Room-Interior Finishes & Fit-out***	**99 days**	**Thu 8/18/16**	**Tue 1/3/17**	**0%**		
879	02-SUBS		Layout Interior Walls-Cardio/Weight Rm	2 days	Thu 8/18/16	Fri 8/19/16	0%	462,864,404,916	880,897
880	02-SUBS		Install Large Duct-Cardio/Weight Rm	7 days	Mon 8/22/16	Tue 8/30/16	0%	879	881
881	02-SUBS		Install Interior Walls-Cardio/Weight Rm	14 days	Wed 8/31/16	Mon 9/19/16	0%	880	882SS,884
882	02-SUBS		Rough In MEP & FP In Walls & Ceiling-Cardio/Weight Rm	14 days	Wed 8/31/16	Mon 9/19/16	0%	881SS	883

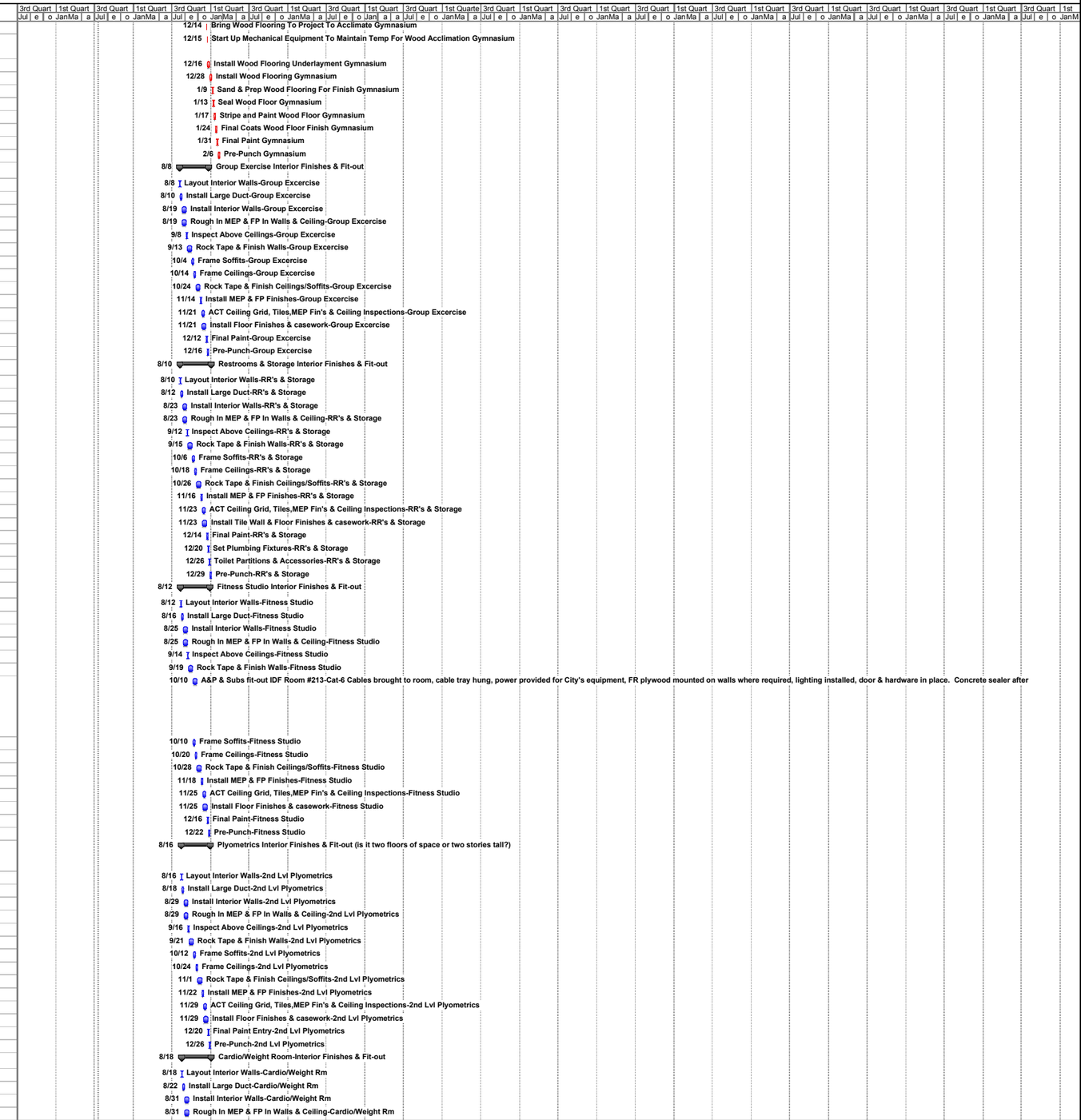


EXHIBIT ____ - PROJECT SCHEDULE
CENTRAL DENVER RECREATION CENTER

ID	RESP	LESTON	Task Name	Duration	Start	Finish	% Comp	Predecessors	Successors
883	02-SUBS		Inspect Above Ceilings-Cardio/Weight Rm	3 days	Tue 9/20/16	Thu 9/22/16	0%	882	884
884	02-SUBS		Rock Tape & Finish Walls-Cardio/Weight Rm	15 days	Fri 9/23/16	Thu 10/13/16	0%	883,881	885
885	02-SUBS		Frame Soffits-Cardio/Weight Rm	8 days	Fri 10/14/16	Tue 10/25/16	0%	884	886
886	02-SUBS		Frame Ceilings-Cardio/Weight Rm	6 days	Wed 10/26/16	Wed 11/2/16	0%	885	888,887
887	02-SUBS		Rock Tape & Finish Ceilings/Soffits-Cardio/Weight Rm	15 days	Thu 11/3/16	Wed 11/23/16	0%	886	888
888	02-SUBS		Install MEP & FP Finishes-Cardio/Weight Rm	5 days	Thu 11/24/16	Wed 11/30/16	0%	886,887	892,891,889SS+2 days
889	02-SUBS		Install back boxes, supports, conduit & wire to the two HVLS fans-CF-1 & 2	4 days	Mon 11/28/16	Thu 12/1/16	0%	888SS+2 days	890
890	02-SUBS		Hang HVLS CF-1 & 2 fans & terminate wiring	2 days	Fri 12/2/16	Mon 12/5/16	0%	889	891
891	02-SUBS		ACT Ceiling Grid, Tiles,MEP Fin's & Ceiling Inspections-Cardio/Weight Rm	10 days	Tue 12/6/16	Mon 12/19/16	0%	888,890	893
892	02-SUBS		Install Floor Finishes & casework-Cardio/Weight Rm	15 days	Thu 12/1/16	Wed 12/21/16	0%	888	893
893	02-SUBS		Final Paint-Cardio/Weight Rm	4 days	Thu 12/22/16	Tue 12/27/16	0%	891,892	894
894	00-A & P		Pre-Punch-Cardio/Weight Rm	5 days	Wed 12/28/16	Tue 1/3/17	0%	893	472
895	**02-SUBS**		**MEZZANINE LEVEL INTERIOR FINISHES & FIT-OUT**	**274 days**	**Mon 12/21/15**	**Thu 1/5/17**	**0%**		
896	**02-SUBS**		***Plyometrics Interior Finishes & Fit-out (is it two floors of space or two stories tall?)***	**99 days**	**Mon 8/22/16**	**Thu 1/5/17**	**0%**		
897	02-SUBS		Layout Interior Walls-Mz Lvl Plyometrics	2 days	Mon 8/22/16	Tue 8/23/16	0%	879,462,404,916	898
898	02-SUBS		Install Large Duct-Mz Lvl Plyometrics	7 days	Wed 8/24/16	Thu 9/1/16	0%	897	899
899	02-SUBS		Install Interior Walls-Mz Lvl Plyometrics	14 days	Fri 9/2/16	Wed 9/21/16	0%	898	900SS,902
900	02-SUBS		Rough In MEP & FP In Walls & Ceiling-Mz Lvl Plyometrics	14 days	Fri 9/2/16	Wed 9/21/16	0%	899SS	901,917
901	02-SUBS		Inspect Above Ceilings-Mz Lvl Plyometrics	3 days	Thu 9/22/16	Mon 9/26/16	0%	900	902
902	02-SUBS		Rock Tape & Finish Walls-Mz Lvl Plyometrics	15 days	Tue 9/27/16	Mon 10/17/16	0%	901,899	903
903	02-SUBS		Frame Soffits-Mz Lvl Plyometrics	8 days	Tue 10/18/16	Thu 10/27/16	0%	902	904
904	02-SUBS		Frame Ceilings-Mz Lvl Plyometrics	6 days	Fri 10/28/16	Fri 11/4/16	0%	903	906,905
905	02-SUBS		Rock Tape & Finish Ceilings/Soffits-Mz Lvl Plyometrics	15 days	Mon 11/7/16	Fri 11/25/16	0%	904	906
906	02-SUBS		Install MEP & FP Finishes-Mz Lvl Plyometrics	5 days	Mon 11/28/16	Fri 12/2/16	0%	904,905	908,907
907	02-SUBS		ACT Ceiling Grid, Tiles,MEP Fin's & Ceiling Inspections-Mz Lvl Plyometrics	10 days	Mon 12/5/16	Fri 12/16/16	0%	906	909
908	02-SUBS		Install Floor Finishes & casework-Mz Lvl Plyometrics	15 days	Mon 12/5/16	Fri 12/23/16	0%	906	909
909	02-SUBS		Final Paint-Mz Lvl Plyometrics	4 days	Mon 12/26/16	Thu 12/29/16	0%	908,907	910
910	00-A & P		Pre-Punch-Mz Lvl Plyometrics	5 days	Fri 12/30/16	Thu 1/5/17	0%	909	472
911	**02-SUBS**		***Walk/Jog Track Alternate 4A Interior Finishes & Fit-out (develop some detail, but don't link to Substantial Completion without go / no-go decision)***	**242 days**	**Mon 12/21/15**	**Tue 11/22/16**	**0%**		
912	00-CACD		Make decision on alternate 4A-Walk/Jog Track	60 days	Mon 12/21/15	Fri 3/11/16	0%	117	913
913	00-CACD		Alternate 4A-Award & procure materials-Walk/Jog Track	0 days	Fri 3/11/16	Fri 3/11/16	0%	912	914
914	02-SUBS		Steel installation (needs to go when rest of steel is erected)-Walk/Jog Trk	8 days	Thu 5/5/16	Mon 5/16/16	0%	913,368SS	915
915	02-SUBS		Deck & rail installation (needs to go when rest of steel is erected)-Walk/Jog Trk	10 days	Wed 7/20/16	Tue 8/2/16	0%	914,377SS,378SS,38	916
916	02-SUBS		Prep/Place SOMD (needs to go when rest of concrete is poured)-Walk/Jog Trk	3 days	Wed 8/3/16	Fri 8/5/16	0%	915,378,388	917,816,831,848,864,8
917	02-SUBS		Rough-In MEP & FP & Lighting above & below track structure-Walk/Jog Trk	14 days	Thu 9/22/16	Tue 10/11/16	0%	916,900	918
918	02-SUBS		Inspect Ceiling MEP & FP above & below track structure-Walk/Jog Trk	3 days	Wed 10/12/16	Fri 10/14/16	0%	917	919
919	02-SUBS		Install FP Spr Heads & Light Fixtures (underside)-Walk/Jog Trk	5 days	Mon 10/17/16	Fri 10/21/16	0%	918	921,920
920	02-SUBS		Final Paint Rails & underside of structure-Walk/Jog Trk	4 days	Mon 10/24/16	Thu 10/27/16	0%	919	921
921	02-SUBS		Install Rubber Athletic Floor Finishes-Walk/Jog Trk (if alternate is accepted, preference is to have the work this far before wood floor goes in on gym below)	15 days	Fri 10/28/16	Thu 11/17/16	0%	919,920	922,805
922	00-A & P		Pre-Punch-Walk/Jog Trk	3 days	Fri 11/18/16	Tue 11/22/16	0%	921	996,472
923	**02-SUBS**		**ROOFTOP LEVEL INTERIOR FINISHES & FIT-OUT**	**291 days**	**Mon 12/21/15**	**Mon 1/30/17**	**0%**		
924	**02-SUBS**		***Roof Level Alternate 2.D (Rooftop community meeting room) Interior Finishes & Fit-out (not linked to Substantial Completion without go / no-go decision)***	**290 days**	**Mon 12/21/15**	**Fri 1/27/17**	**0%**		
925	00-CACD		Make decision on alternate 2.D Rf Lvl Community meeting room	60 days	Mon 12/21/15	Fri 3/11/16	0%	117	926
926	00-CACD		Alternate 2.D-Award & procure materials Rf Lvl Community meeting room,	138 days	Mon 3/14/16	Wed 9/21/16	0%	925	927
927	02-SUBS		Layout Interior Walls-Rf Lvl Mtg Rm	2 days	Thu 9/22/16	Fri 9/23/16	0%	926	928
928	02-SUBS		Install Large Duct--Rf Lvl Mtg Rm	7 days	Mon 9/26/16	Tue 10/4/16	0%	927	929
929	02-SUBS		Install Interior Walls--Rf Lvl Mtg Rm	14 days	Wed 10/5/16	Mon 10/24/16	0%	928	930SS,932
930	02-SUBS		Rough In MEP & FP In Walls & Ceiling-Rf Lvl Mtg Rm	14 days	Wed 10/5/16	Mon 10/24/16	0%	929SS	931
931	02-SUBS		Inspect Above Ceilings-Rf Lvl Mtg Rm	3 days	Tue 10/25/16	Thu 10/27/16	0%	930	932
932	02-SUBS		Rock Tape & Finish Walls-Rf Lvl Mtg Rm	15 days	Fri 10/28/16	Thu 11/17/16	0%	931,929	933
933	02-SUBS		Frame Soffits-Rf Lvl Mtg Rm	8 days	Fri 11/18/16	Tue 11/29/16	0%	932	934
934	02-SUBS		Frame Ceilings-Rf Lvl Mtg Rm	6 days	Wed 11/30/16	Wed 12/7/16	0%	933	936,935
935	02-SUBS		Rock Tape & Finish Ceilings/Soffits-Rf Lvl Mtg Rm	3 days	Thu 12/8/16	Mon 12/12/16	0%	934	937
936	02-SUBS		Install MEP & FP Finishes-Rf Lvl Mtg Rm	5 days	Thu 12/8/16	Wed 12/14/16	0%	934	938,937
937	02-SUBS		ACT Ceiling Grid, Tiles,MEP Fin's & Ceiling Inspections-Rf Lvl Mtg Rm	8 days	Thu 12/15/16	Mon 12/26/16	0%	936,935	938
938	02-SUBS		Install Floor Finishes & casework-Rf Lvl Mtg Rm	15 days	Tue 12/27/16	Mon 1/16/17	0%	936,937	939
939	02-SUBS		Final Paint-Rf Lvl Mtg Rm	4 days	Tue 1/17/17	Fri 1/20/17	0%	938	940
940	00-A & P		Pre-Punch-Rf Lvl Mtg Rm	5 days	Mon 1/23/17	Fri 1/27/17	0%	939	996
941	**02-SUBS**		***Roof Level Kitchen Alternate 2.D (catering) Interior Finishes & Fit-out (not linked to Substantial Completion without go / no-go decision)***	**291 days**	**Mon 12/21/15**	**Mon 1/30/17**	**0%**		
942	00-CACD		Make decision on alternate 2.D Catering kitchen	60 days	Mon 12/21/15	Fri 3/11/16	0%	117	943
943	00-CACD		Alternate 2.D-award & procure materials Catering kitchen	137 days	Mon 3/14/16	Tue 9/20/16	0%	942	944
944	02-SUBS		Layout Interior Walls-RF Lvl catering kitchen	2 days	Wed 9/21/16	Thu 9/22/16	0%	943	945
945	02-SUBS		Install Ductwork-RF Lvl catering kitchen	7 days	Fri 9/23/16	Mon 10/3/16	0%	944	946
946	02-SUBS		Install Interior Walls-RF Lvl catering kitchen	14 days	Tue 10/4/16	Fri 10/21/16	0%	945	947SS,949
947	02-SUBS		Rough In MEP & FP In Walls & Ceiling-RF Lvl catering kitchen	14 days	Tue 10/4/16	Fri 10/21/16	0%	946SS	948
948	02-SUBS		Inspect Above Ceilings-RF Lvl catering kitchen	3 days	Mon 10/24/16	Wed 10/26/16	0%	947	949
949	02-SUBS		Rock Tape & Finish Walls-RF Lvl catering kitchen	15 days	Thu 10/27/16	Wed 11/16/16	0%	948,946	950
950	02-SUBS		Frame Soffits-RF Lvl catering kitchen	8 days	Thu 11/17/16	Mon 11/28/16	0%	949	951
951	02-SUBS		Frame Ceilings-RF Lvl catering kitchen	6 days	Tue 11/29/16	Tue 12/6/16	0%	950	953,952
952	02-SUBS		Rock Tape & Finish Ceilings/Soffits-RF Lvl catering kitchen	3 days	Wed 12/7/16	Fri 12/9/16	0%	951	954
953	02-SUBS		Install MEP & FP Finishes-RF Lvl catering kitchen	5 days	Wed 12/7/16	Tue 12/13/16	0%	951	955
954	02-SUBS		ACT Ceiling Grid, Tiles,MEP Fin's & Ceiling Inspections-RF Lvl catering kitchen	10 days	Mon 12/12/16	Fri 12/23/16	0%	952	955
955	02-SUBS		Install Floor Finishes & casework-RF Lvl catering kitchen	15 days	Mon 12/26/16	Fri 1/13/17	0%	953,954	957,956
956	02-SUBS		Food service equip install & Plumb/elect hook-up-RF Lvl catering kitchen	5 days	Mon 1/16/17	Fri 1/20/17	0%	955	958
957	02-SUBS		Final Paint-RF Lvl catering kitchen	4 days	Mon 1/16/17	Thu 1/19/17	0%	955	958

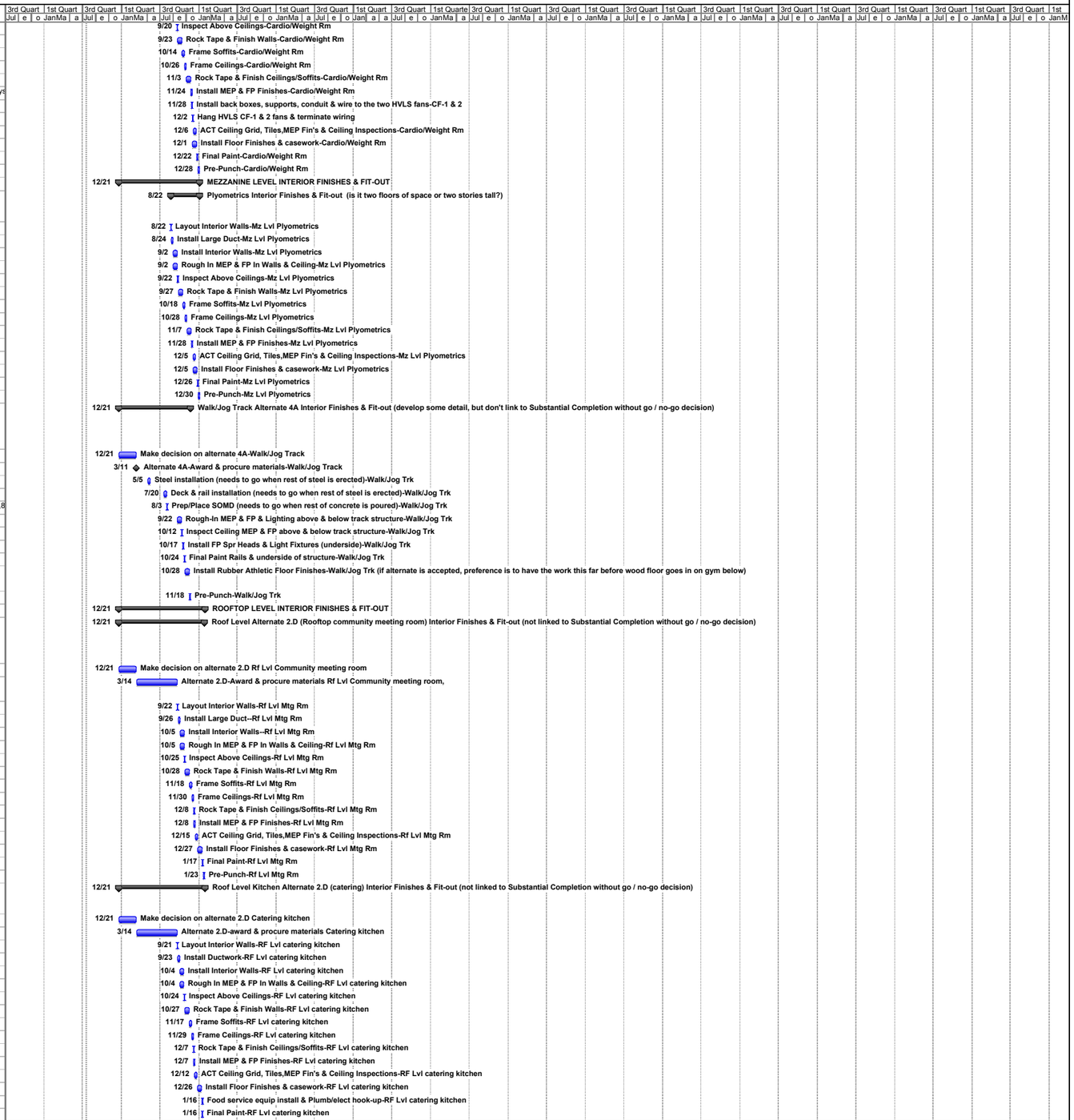


EXHIBIT ____ - PROJECT SCHEDULE
CENTRAL DENVER RECREATION CENTER

ID	RESP	LESTON	Task Name	Duration	Start	Finish	% Comp	Predecessors	Successors
958	00-A & P		Pre-Punch-RF Lvl catering kitchen	5 days	Mon 1/23/17	Fri 1/27/17	0%	957,956	959
959	02-SUBS		Health Department Inspection & Sign-off-RF Lvl catering kitchen	1 day	Mon 1/30/17	Mon 1/30/17	0%	958	996
960	**02-SUBS**		***Roof Level Alternate 2.D (exterior terrace) Interior Finishes & Fit-out (not linked to Substantial Completion without go / no-go decision)***	**290 days**	**Mon 12/21/15**	**Fri 1/27/17**	**0%**		
961	00-CACD		Make decision on alternate 2.D Exterior terrace	60 days	Mon 12/21/15	Fri 3/11/16	0%	117	962
962	00-CACD		Alternate 2.D-Award & procure materials-Exterior terrace	205 days	Mon 3/14/16	Fri 12/23/16	0%	961	963
963	02-SUBS		Construct trellis structures	5 days	Mon 12/26/16	Fri 12/30/16	0%	962	964
964	02-SUBS		Roof paver system	5 days	Mon 1/2/17	Fri 1/6/17	0%	963	965
965	02-SUBS		Rooftop landscaping, lighting & amenities	10 days	Mon 1/9/17	Fri 1/20/17	0%	964	966
966	02-SUBS		**Rooftop FF&E**	3 days	Mon 1/23/17	Wed 1/25/17	0%	965	967
967	00-A & P		Pre-punch roof exterior terrace	2 days	Thu 1/26/17	Fri 1/27/17	0%	966	996
968	**02-SUBS**		**FINAL SITE DEVELOPMENT**	**110 days**	**Thu 12/15/16**	**Wed 5/17/17**	**0%**		
969	**02-SUBS**		***FINAL SITE DEVELOPMENT***	**110 days**	**Thu 12/15/16**	**Wed 5/17/17**	**0%**		
970			**Final site underground work & hardscape**	**28 days**	**Thu 12/15/16**	**Mon 1/23/17**	**0%**		
971	02-SUBS		Install Underground Irrigation Piping Mains & Branch Lines	8 days	Thu 12/15/16	Mon 12/26/16	0%	446,467,435,421,468,	972,973
972	02-SUBS		Install Site Lighting	5 days	Tue 12/27/16	Mon 1/2/17	0%	971	981,973FF+5 days
973	02-SUBS		Site concrete hardscape work-curb & gutter, walks & miscellaneous exterior stairs/walls	20 days	Tue 12/27/16	Mon 1/23/17	0%	972FF+5 days,971	975,976,977,978,979,9 days,239SS+5 days
974	**02-SUBS**		**Miscellaneous Site Amenities**	**20 days**	**Thu 3/16/17**	**Wed 4/12/17**	**0%**		
975	02-SUBS		Dog park/playground	20 days	Thu 3/16/17	Wed 4/12/17	0%	973,185	996
976	02-SUBS		Bouldering area	20 days	Thu 3/16/17	Wed 4/12/17	0%	973,185	996
977	02-SUBS		Bike racks, benches & litter receptacles	3 days	Thu 3/16/17	Mon 3/20/17	0%	973,185	996
978	02-SUBS		Ping-pong table area (Alternate-add detail later if accepted)	15 days	Thu 3/16/17	Wed 4/5/17	0%	973,185	996
979	02-SUBS		Slack-line area (alternate-add detail later if accepted)	15 days	Thu 3/16/17	Wed 4/5/17	0%	973,185	996
980	**02-SUBS**		**Landscaping, irrigation trim-out & site wayfinding**	**45 days**	**Thu 3/16/17**	**Wed 5/17/17**	**0%**		
981	02-SUBS		Stake & Plant Trees (Defer this to spring to avoid risks to establishing plants & turf going into winter)	5 days	Thu 3/16/17	Wed 3/22/17	0%	972,185	982
982	02-SUBS		Layout & Install Planting Beds	8 days	Thu 3/23/17	Mon 4/3/17	0%	981	983
983	02-SUBS		Install Shrubs	5 days	Tue 4/4/17	Mon 4/10/17	0%	982	984
984	02-SUBS		Complete Irrigation System	5 days	Tue 4/11/17	Mon 4/17/17	0%	983	985
985	02-SUBS		Install Sod / Grass (City is OK with this going past Final Completion milestone)	5 days	Tue 4/18/17	Mon 4/24/17	0%	984,973,457FF+1 day	986
986	02-SUBS		Establish Sod / Grass (can happen after Final Completion during the warranty phase)	17 days	Tue 4/25/17	Wed 5/17/17	0%	985	
987	02-SUBS		**Complete Final Lift Of Paving (might have to defer this to spring if asphalt plants are closed for winter)**	4 days	Thu 3/16/17	Tue 3/21/17	0%	185	988
988	02-SUBS		Stripe Parking Lot	3 days	Wed 3/22/17	Fri 3/24/17	0%	987	989
989	02-SUBS		Complete Signage	2 days	Mon 3/27/17	Tue 3/28/17	0%	988	996
990	**02-SUBS**		***POST-CONSTRUCTION & CLOSE-OUT PHASE***	**43 days**	**Mon 3/20/17**	**Wed 5/17/17**	**0%**		
991	**02-SUBS**		**POST-CONSTRUCTION & CLOSE-OUT PHASE**	**43 days**	**Mon 3/20/17**	**Wed 5/17/17**	**0%**		
992	**02-SUBS**		***POST-CONSTRUCTION & CLOSE-OUT PHASE***	**43 days**	**Mon 3/20/17**	**Wed 5/17/17**	**0%**		
993	99-ALL		Close-out Process-final CO's & Pay-app, As-builts, O&M's, Training, Attic Stock, etc. (some asphalt paving & landscaping related work may happen during this time frame outside of winter months)	43 days	Mon 3/20/17	Wed 5/17/17	0%	481	996,994SS
994	00-CACD		FF&E Installation by City & City Contractors (can develop detail by areas later w/ matrix provide to A&P-Athletic equip, aquatics equip, desks, loose furnishings, fitness equip, tip and roll bleachers, blinds, scoreboard, lifeguard chairs, etc.)	35 days	Mon 3/20/17	Fri 5/5/17	0%	993SS	996,995
995	00-CACD		FF&E Installation by City & City Contractors (phones, computers & printers, etc.)	5 days	Mon 5/8/17	Fri 5/12/17	0%	994	996
996	00-A & P	M/S	Final Completion	0 days	Wed 5/17/17	Wed 5/17/17	0%	185,993,967,959,940,	

EXHIBIT J

March 31, 2015

Brett Hahnenkamp, P.E., LEED AP
BBH Management Solutions, LLC
City and County of Denver
201 W. Colfax Ave., Dept. 506
Denver, CO 80204

Dear Mr. Hahnenkamp:

Outlined below are the scopes of work Adolfson & Peterson Construction (A&P) intends to competitively bid as self-performed work.

Surveying
Erosion Control
Concrete, Drilled Piers, Foundations, Slabs and Site Concrete
Rough Carpentry and Wall Blocking
Doors, Frames and Hardware
General Trades

These packages will be competitively bid to subcontractors and suppliers. A&P's bid proposal will be turned in to you 24 hours in advance of the subcontractor bid date.

Sincerely,

Cole P. Mayer, LEED AP
Preconstruction Manager

CC: Randy Berner, Tom Bailey

EXHIBIT T

Adolfson & Peterson Construction

Central Denver Recreation Center

BP2 GMP Estimate

	AP assumed the following precedence of documents in preparing this GMP:
1	Prime Contract fully executed on 09/29/2015
2	Special Conditions
3	General Conditions
4	Price Options List
5	Clarification #3 dated 11/04/2015
6	Clarification #2 dated 11/03/2015
7	Clarification #1 dated 10/30/2015
8	100% CD Specifications dated 10/16/2015
9	100% CD Drawings dated 10/16/2015
10	BP #02 - GMP, including Clarifications & Allowances

A.	GENERAL CLARIFICATIONS
1	These clarifications are for the purpose of more clearly identifying the scope of the Work and the increase to the GMP for that Work being added to the Contractor's responsibility. Nothwithstanding anything to the contrary in these clarifications below, nothing herein is intended to amend or otherwise change the terms and conditions of the Agreement now in place, which shall remain in full force and effect.
2	This is a GMP for the cost of construction. No land fees, architectural fees, legal fees, land development fees, tap fees or other Owner soft costs have been included.
3	The cost of the building permit is not included.
4	Sales tax of 3.65% City and County of Denver Consumer's Use Tax is included. Denver Occupational Privelege Tax is included.
5	It is assumed all work will be completed during a standard 40-hour work week. No allowance for overtime or off-hours work has been included for absorbing unforeseeable conditions that are not AP's responsibility under the Agreement.
6	AP has provided an estimate that reflects a complete project that is reasonably inferable from the contract documents & with component systems to provided standards of the industry.
7	AP is carrying a reasonable & mutually agreeable bidding contingency within the overall GMP to account for miscellaneous minor escalation costs that might occur in the 90 day window for obtaining City Council & Mayoral approval of the Amendment incorporating Bid Package #2.
8	This bidding contingency is also assumed to be available to AP be used to bridge gaps in scope and disagreements contract requirements with the recommended bidder. In the event disagreement(s) lead AP to contract with another bidder not previously recommended, AP assumes the City will support such change, to the extent it is documented, and does not increase the GMP.

Adolfson & Peterson Construction

Central Denver Recreation Center

BP2 GMP Estimate

9	At the completion of subcontractor contract finalization by AP, then AP assumes the remaining bidding contingency will be allocated to the Owner Contingency.
10	Despite the best efforts of AP, gaps in scope may be discovered after the completion of subcontractor contract finalization by AP. AP assumes it will have access to the Construction Contingency to fill these gaps, to the extent they are well documented and do not increase the GMP.
11	AP is carrying a reasonable & mutually agreeable Construction Contingency per the terms of the Prime Contract Agreement.
12	At the request of the City, AP is carrying $500,000 in BP #1 & $500,000 in BP #2 as an Owner change order contingency per the terms of the Prime Contract Agreement.
13	Price Options List - AP assumes the Price Options List superscedes all other contract documents, and the Owner's consultants will issue future design documents that are congruent with the decisions made and documented in this Price Options List. AP is responsible for the costs shown in the Price Options List only to the extent these scope items are incorporated in such future design documents.
14	To the extent AP has provided, or will provide value engineering suggestions, or comments on design documents, AP assumes the City will have its consultants review these suggestions and comments before acceptance, as the City has been advised AP is not a licensed design or engineering professional, and such comments are provided in an advisory capacity only.
15	AP accepts full responsibilty for such scope the Contract Documents indicate AP has design and/or engineering responsibility, and assumes the City's consultants have responsibility for the adequacy of the balance of the design and engineering.

Adolfson & Peterson Construction

Central Denver Recreation Center

BP2 GMP Estimate

B.	**WARRANTIES**
1	This GMP is intended to include all the warranties required by the contract documents.
2	AP used its best efforts to diligently insure all the warranties required by the latest project specifications are included in the cost shown in this GMP. In some cases, however, extended warranties above industry standard shown in the specifications may have been excluded by subcontractors, and not yet identified by AP. In this event, AP assumes it may use a combination of the bidding contigency and Construction Contingency to cover the minor situations where this may occur, to the extent they are well documented and do not increase the GMP. AP has previously identified those locations in the specifications where such non-standard warranties exist, and will provide a comprehensive list of such atypical warranty specifications to the City and the City's consultants not later than 01 MAR 2016.

Adolfson & Peterson Construction

Central Denver Recreation Center

BP2 GMP Estimate

C.	SUBCONTRACTOR CERTIFICATIONS, QUALIFICATIONS, EXCLUSIONS AND ASSUMPTIONS
1	AP used its best efforts to diligently insure all the subcontractors recommended for award meet the certifications, accreditations and qualifications required by the latest project specifications . In some cases, however, the certifications, accreditations and qualifications are above industry standards, and the subcontractors recommended for award that do not meet these requirements also may not yet have been identified by AP. In this event, AP assumes it may use a combination of the bidding contigency and Construction Contingency to cover the minor situations where this may occur, to the extent they are well documented and do not increase the GMP. AP will provide a comprehensive list of such accredidation requirements in the specifications to the City and the City's consultants not later than 01 MAR 2016.
2	AP used its best efforts to diligently insure all the subcontractors recommended for award have included the scope of the Work required by the latest Contract Documents. In some cases, however, the subcontractors recommended for award may have excluded scope in their proposals that are required by the contract documents that may not yet have been identified by AP. In this event, AP assumes it may use a combination of the bidding contigency and Construction Contingency to cover the minor situations where this may occur, to the extent they are well documented and do not increase the GMP. AP will provide a comprehensive list of such subcontractor exclusions that conflict with the Contract Documents to the City and the City's consultants not later than 01 MAR 2016. In no event, however, shall a subcontractor(s)' proposal supercede the Contract Documents, or AP's requirement to provide the Work per the Contract Documents.

Adolfson & Peterson Construction

Central Denver Recreation Center

BP2 GMP Estimate

D.	COSTS ASSUMED TO BE BY THE CITY
1	All independent testing and inspections, including commissioning
2	All fees associated with utilities will be paid for by the owner (water, electric, gas)
3	Any expenses associated with dry utilities and getting them to the site (cable, fiber, power and gas)
4	Removal of hazardous materials, including asbestos and lead abatement
5	All moving costs
6	All artwork - purchasing, moving, and installation
7	Technology - Computers, Servers, phones, etc. – purchasing, moving and installation
8	Furniture, Desks, chairs, tables, moveable casework – purchasing, moving and installation
9	Projection Screens, Smart Boards
10	Televisions
11	Residential Equipment
12	Land Costs
13	Architectural and Engineering Fees
14	

Adolfson & Peterson Construction

797 Ventura Street, Aurora, CO 80011

Project:	Central Denver Recreation Center	Date:	01/08/16
Owner:	City and County of Denver	Estimator:	Cole Mayer
Architect:	Barker Rinker Seacat Architecture	Project SF:	60,868
		Duration in Months:	19.00
	BP1GMP REC	Estimate #:	100% CD

Project Summary Sheet - Estimated Cost of the Work

		BP#1 GMP - 100% DD Estimate	BP#2 - 100% CD Estimate	Subtotal		
Division #0	Procurement and Contracting Requirements	$276,563	$693,600	970,163	$15.94 /SF	3.6% of Direct Costs
Division #1	General Requirements	$171,810	$528,942	700,752	$11.51 /SF	2.6% of Direct Costs
Division #2	Existing Conditions	$59,046	$0	59,046	$0.97 /SF	0.2% of Direct Costs
Division #3	Concrete	$688,000	$918,984	1,606,984	$26.40 /SF	5.9% of Direct Costs
Division #4	Masonry	$0	$1,739,596	1,739,596	$28.58 /SF	6.4% of Direct Costs
Division #5	Metals	$90,000	$4,040,583	4,130,583	$67.86 /SF	15.2% of Direct Costs
Division #6	Wood, Plastics, and Composites	$0	$281,774	281,774	$4.63 /SF	1.0% of Direct Costs
Division #7	Thermal and Moisture Protection	$0	$908,844	908,844	$14.93 /SF	3.3% of Direct Costs
Division #8	Openings	$0	$1,239,762	1,239,762	$20.37 /SF	4.6% of Direct Costs
Division #9	Finishes	$0	$2,410,538	2,410,538	$39.60 /SF	8.9% of Direct Costs
Division #10	Specialties	$0	$264,023	264,023	$4.34 /SF	1.0% of Direct Costs
Division #11	Equipment	$0	$80,355	80,355	$1.32 /SF	0.3% of Direct Costs
Division #12	Furnishings	$0	$118,538	118,538	$1.95 /SF	0.4% of Direct Costs
Division #13	Special Construction	$3,007,141	$0	3,007,141	$49.40 /SF	11.1% of Direct Costs
Division #14	Conveying Equipment	$0	$134,236	134,236	$2.21 /SF	0.5% of Direct Costs
Division #21	Fire Suppression	$0	$198,327	198,327	$3.26 /SF	0.7% of Direct Costs
Division #22	Plumbing	$0	$971,306	971,306	$15.96 /SF	3.6% of Direct Costs
Division #23	Heating, Ventilating and Air Conditioning	$410,195	$1,739,498	2,149,693	$35.32 /SF	7.9% of Direct Costs
Division #25	Integrated Automation	$0	$0	0	$0.00 /SF	0.0% of Direct Costs
Division #26	Electrical	$0	$1,660,444	1,660,444	$27.28 /SF	6.1% of Direct Costs
Division #27	Communications	$0	$330,239	330,239	$5.43 /SF	1.2% of Direct Costs
Division #28	Electonic Safety and Security	$0	$141,361	141,361	$2.32 /SF	0.5% of Direct Costs
Division #31	Earthwork	$2,162,583	$0	2,162,583	$35.53 /SF	8.0% of Direct Costs
Division #32	Exterior Improvements	$0	$1,106,585	1,106,585	$18.18 /SF	4.1% of Direct Costs
Division #33	Utilities	$767,354	$0	767,354	$12.61 /SF	2.8% of Direct Costs
	Subtotal	$7,632,693	$19,507,535	$27,140,228	$445.89 /SF	100.0% of Project
	Utility Tap & Devel. Fees	By Owner	By Owner	By Owner		
	Building Permit & Plan Review Fees	By Owner	By Owner	By Owner		
	Use Tax	N/A	N/A	N/A		
	Bidding Contingency	$113,501	$195,075	308,576	$5.07 /SF	1.0% of Subtotal
	Construction Contingency	$160,560	$413,755	574,315	$9.44 /SF	2% of Subtotal
	Builders Risk Insurance	$19,828	$51,096	70,924	$1.17 /SF	0.25% of Project
	Comprehensive General Liability Insurance	$81,391	$209,742	291,133	$4.78 /SF	1% of Costs
	Perform., Labor & Material Bond	$63,062	$150,995	214,057	$3.52 /SF	0.72% of Project
	Escalation Allowance	$0	$0	0	$0.00 /SF	0.00% of Project
	General Contractors Fee	$218,061	$421,649	639,710	$10.51 /SF	
	Preconstruction Services	w/ Precon Ag.	w/ Precon Ag.	0	$0.00 /SF	0.25% of Project
	Estimated Cost of Construction 100% CD	$8,289,096	$20,949,847	$29,238,942	$480.37 /SF	100.0% of Project
	Accepted Price Options		($1,254,871)	($1,254,871)		
	Owner's Contingency	$500,000	$500,000	$1,000,000		
	Bid Package 1 GMP Total	$8,789,096				
	Bid Package 2 GMP Total		$20,194,976			
	Total of BP1 & BP2 GMP			$28,984,071		

Adolfson & Peterson Construction

Price Options List

Central Denver Recreation Center - 100% CDs

1/8/2016

-$1,254,871

Item Number	Date	Description of Item	Status	Accepted Cost	Comments	Decision Date
00 - Alternates / Program Discussions						
00 - 010	7/17/2015	Move rooftop restroom core/shell to rooftop event space alternate	Accepted	(65,000)	Saving needs to be confirmed with subcontractors	
00 - 017	12/2/2015	Remove roof curbs for future rooftop event space alternate	Accepted	(5,000)	Saving needs to be confirmed with subcontractor	
00 - 018	12/7/2015	Core/Shell mezzanine restroom group. Eliminate fixtures and finishes and use for storage space.	Accepted	(30,000)		
02 - 008	12/1/2015	Provide 1 year ILO 2 year warranty and maintenance requirement	Accepted	(23,255)		
02 - 010	12/1/2015	Remove Soofa bench from project	Accepted	(4,188)		
02 - 011	12/1/2015	Move Big Belly trash cans to FF&E	Accepted	(21,062)		
02 - 012	12/1/2015	Remove parking meter poles at Josephine street from project	Accepted	(1,669)	These spaces will be 2 hour parking per CCD	
04 - 001	11/18/2015	Reduce Anti-Graffitti coating from all masonry areas to area TBD by design team	Accepted	(65,000)	Saving needs to be confirmed with subcontractor	
05 - 001	11/18/2015	Target structural steel savings based on reduced joist tonnage per forthcoming drawing updates	Accepted	(750,000)	Saving needs to be confirmed with subcontractor	
05 - 003	12/8/2015	Simplify handrail. Use steel pipe top rail ILO wood with LED light tape.	Accepted	(4,198)	Saving needs to be confirmed with subcontractor	
06 - 002	12/1/2015	Delete bench under mezzanine stair	Accepted	(2,835)	A railing extension will be required to meet code	
08 - 001	12/1/2015	Revise doors 020E and 020A from double doors to single	Accepted	(3,205)		
08 - 003	12/1/2015	Eliminate door 001 between locker hallway and pool vestibule	Accepted	(4,430)		
08 - 010	12/7/2015	Delete door 036 and add back double hollow metal door in adjacent wall	Accepted	(4,176)		
08 - 006	12/2/2015	Eliminate the OPG Kaiser trim and provide metal sill and brick return at jamb and head	Accepted	(12,000)		
08 - 011	12/16/2015	Revise door 020D from double door to single 4'-0" door	Accepted	(1,375)		
09 - 001	11/18/2015	Remove requirement of APC at all walls in Natatoriums	Accepted	(49,561)		
09 - 003	12/1/2015	Reduce Paint warranty period from 5 years to 2 years	Accepted	(125,000)		
09 - 005	12/9/2015	Remove painting of natatorium exposed ductwork (aluminum)	Accepted	(13,230)	Previously carried in painter's proposal (Maximum Painting)	
09 - 006	12/16/2015	Remove painting at remaining ductwork areas	Accepted	(7,370)		
10 - 004	12/2/2015	Remove stair tread graphics from current scope (can be installed at a later date)	Accepted	(11,176)		
10 - 001	5/11/2015	Add for electronic locks at lockers	Accepted	31,503	Assumes 1 and 2 tier lockers in pool locker rooms to receive locks	
10 - 002	12/1/2015	Remove lockers at fitness floor (or possible move to FF&E)	Accepted	(6,402)		
11 - 001	12/1/2015	Move projection screens to FF&E	Accepted	(1,150)		
11 - 002	12/1/2015	Move residential appliances except dishwasher to FF&E	Accepted	(11,546)		
11 - 003	12/1/2015	Move TV brackets to FF&E	Accepted	(6,624)		
13 - 003	7/13/2015	Eliminate life guard chairs from GMP and City to purchase as FFE. Savings to GMP.	Accepted	(3,310)	City discussed Life Guard chairs as FFE.	
15 - 001	12/2/2015	Provide semi recessed white heads ILO concealed at the finished ceilings	Accepted	(3,200)		
15 - 002	12/7/2015	Delete supply and exhaust airflow measuring stations from PDUs (4 total)	Accepted	(6,000)		
15 - 003	12/7/2015	Reduce area drains in pool office from 2 to 1	Accepted	(875)		
15 - 004	12/7/2015	Reduce area drains in Lifeguard 024 from 2 to 1	Accepted	(863)		
15 - 005	12/7/2015	Reduce area drains in Pool storage 023 from 2 to 1	Accepted	(875)		
15 - 014	12/7/2015	Provide raw ductwork ILO painted duct at gym and cardio	Accepted	(11,600)		
16 - 012	12/7/2015	Allow for use of MC cable for single circuit electrical connecting in drywall partitions and ceilings.	Accepted	(15,000)	Acceptable to design team, need to confirm with City if acceptable	
16 - 014	12/7/2015	Remove EMON / DEMON item in estimate. Electrical contractor included metering as required.	Accepted	(5,000)	ADK proposal has metering already	
16 - 015	12/7/2015	Delete conduits for power, comcast, centurylink, and associated vaults to future retail space	Accepted	(10,200)	Deletes 2 vaults, 80' trench, 1500' 4" PVC	ADK

Central Denver Recreation Center

Detailed Cost Estimate and Budget Control Document

Bid Package #2 - GMP

	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
Division 0 - General Conditions							
00 72 00	AIA General Conditions						
	2	BP#2 - General conditions of the contract	1.00	ls	$693,600.00	per GC & Fee Matrix	$693,600
	3	Public services and development fees				Not Included - See Summary	$0
00 72 00 Total						$693,600	
Division 0 - General Conditions Total						*$693,600*	
Division 01 - General Requirements							
01 14 00	Work Restrictions						
	4	Off-hours work				Not Included	$0
	5	Site access requirements - offsite staging				Not Included	$0
	6	ROW Closure Permit Fees - sidewalks and traffic lane				Not Req'd per Brett H. email & discussion 11/5	$0
01 14 00 Total						$0	
01 33 00	Submittals						
	1	Delivery costs / messenger services				GC's	$0
01 33 00 Total						$0	
01 45 00	Quality Control						
	1	Independent testing				By Owner	$0
	2	Soil compaction tests				By Owner	$0
	3	Concrete tests				By Owner	$0
	4	Steel weld test / inspections				By Owner	$0
01 45 00 Total						$0	
01 51 00	Temporary Facilities						
	11	BP#2					
	12	Temporary elevator use (plywood protection)	2.00	ea	$281.94		$564
	13	Flagmen - during steel erection	53.00	days	$819.00		$43,407
	14	Temporary electricity	19.00	mth	$2,000.00		$38,000
	15	Temporary lighting	60868.00	sf	$0.08		$4,869
	16	Temporary water	19.00	mth	$350.00		$6,650
	17	Weather Protection	1.00	ls	$65,000.00	Moved from General Conditions	$65,000
	18	Snow removal	1.00	ls	$10,000.00	Moved from General Conditions	$10,000
	19	Dumpsters	124.50	ea	$455.00	Avg unit cost used (overweight dumpsters are more)	$56,648
	20	Textura online billing system	1.00	allow	$21,000.00	Estimated rate on estimated contract value for BP2	$21,000
	21	Time lapse video requested by City	1.00	ls	$7,410.00		$7,410
	22	Denver Water - City requested tap fees run through AP's contract	1.00	ls	$7,400.00		$7,400
	23	Hoists				By Trade / Division	$0
	24	Const. aids and misc. services				N/A	$0
	25	Temp. enclosures for dust protection & entry				By Demo Sub	$0
	26	Barricades and warning lights				By Division	$0
	27	Environmental protection				Division 2	$0
	28	Exit enclosure for existing exits				Not Included	$0
	29	Temporary heating, cooling and ventilating				By Trade	$0
01 51 00 Total						$260,948	
01 74 00	Cleaning						
	1	Final clean site	114152.00	sf		With GC's	$0
	2	Final clean building				With GC's	$0
01 74 00 Total						$0	
01 54 00	Construction Aids						
	1	Temporary elevators				N/A	$0
	2	Temporary hoists				N/A	$0
	3	Temporary cranes	10.00	mth	$13,627.00		$136,270
	4	Concrete or gravel pad for crane	1.00	ls	$9,724.00		$9,724
	5	Temp power for crane	10.00	mth	$2,000.00		$20,000
	6	Temporary scaffolding and platforms	1.00	ls	$102,000.00	Over Lap & Leisure Pools	$102,000
01 54 00 Total						$267,994	
Division 01 - General Requirements Total						*$528,942*	
Division 2 - Existing Conditions							
02 41 00	Demolition						
	1	Building Demolition				Not Included	$0
02 41 00 Total						$0	
Division 2 - Existing Conditions Total						*$0*	
Division 03 - Concrete							
03 35 00	Concrete Finishing						
	1	Assuming Slab-on-Grade (SOG) for lower level	1.00	ls		Below	$0
	2	Assuming Slab-on-Deck (SOD) for upper level slab on metal deck	1.00	ls		Below	$0

Central Denver Recreation Center

Detailed Cost Estimate and Budget Control Document

Bid Package #2 - GMP

	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
03 35 00	3	BP#2 - Slabs - Rec Center				Below	$0
	4	Flatwork	1.00	ls	$432,633.60		$432,634
	5	SOG, 5"th slab-on-grade (unreinforced)	18445.00	sf		Included	$0
	6	WWF reinforcing at SOG				Not Included - Not called for on drawings	$0
	7	Trench drain detail L/S2.2				Not Included	$0
	8	Stair east of pool mech room				Change Order to BP#1 - should be added to foundation scope	$0
	9	Thickened slabs at interior wall locations	1048.00	lf		Included	$0
	10	Swirl finish at pool deck	1.00	ls		Included	$0
	11	Vapor Barrier	2513.00	sf		Only included at resilient & carpet floor finish areas	$0
	12	SOD, 5-1/2"th with wwf6x6-w2.1xw2.1	34095.00	sf		Included	$0
	13	SOD, 8"th over mechanical louvers (A/S2.8) with #5 bars	57.00	sf		Included	$0
	14	Conc roof pads for RTU's, 6"th (G/S2.11)	707.00	sf		Included	$0
	15	SOD, Stair Landings	1815.00	sf		Included	$0
	16	Stair Conc Filled Steel Pans	1355.00	lf		Included	$0
	17	Curb for step in slabs Wt Rm/Gym (A/S2.9)	90.00	lf		Included	$0
	18	Curb for future event space & terrace, 3"th x 8"w (12/A741)	604.00	lf		Included	$0
	19	Slab and lids for pump pit and surge tank				w/ Formwork	$0
	20	Stair at opening 020D				Not Included	$0
	21	Sawcut slabs	7005.33	lf		Included	$0
	22	Concrete Material	1120.11	cy		Included	$0
	23	Additives for concrete	1120.11	cy		Included	$0
	24	Pumping	1120.11	cy		Included	$0
	25	Short load/off hour deliveries	1120.11	cy		Included	$0
	26	Welded-Wire-Fabric reinforcing steel SOD	34095.00	sf		Included	$0
	27	Reinforcing Steel for slabs - Material				N/A	$0
	28	Reinforcing Steel for slabs - Labor				N/A	$0
	29	Void Form - Material				Not Req'd per Geotech	$0
	30	Void Form - Labor				Not Req'd per Geotech	$0
	31	Mock-up for architectural concrete pool deck surfaces (033000-1.07)	1.00	ls	$5,000.00		$5,000
	32	Slab moisture control (033000-1.03.B)				Need to confirm with TCS on mfg's warranty	$0
	33	MWBE Participation				Refer to MWBE worksheet	
03 35 00 Total						$437,634	
03 60 00	Grouting						
	1	Columns	60.00	ea	$60.00		$3,600
	2	Steel beam bearings	20.00	ea	$75.00		$1,500
	3	Elevator/Hoist sills	5.00	ea	$250.00		$1,250
03 60 00 Total						$6,350	
03 11 00	Concrete Forming						
	1	FORMWORK				Included	$0
	2	Assuming Grade Beams on Drilled Piers (Drilled Piers in Div. 31)				Included	$0
	39	BP#2 - CIP Walls Above Grade - Rec Center					$0
	40	Formwork for cast-in-place concrete columns & beams	1.00	sub	$475,000.00	Quantities are AP's estimated values. Need to confirm with subs.	$475,000
	41	CIP Columns	1.00	ls		Sub bids may be based on their own quantity takeoffs	$0
	42	CC1 - CIP pilaster - 24"w x 24" w x 5'-5"h	4.00	ea		Included	$0
	43	CC2 - CIP column - 24" dia x 23'-4"h	5.00	ea		Included	$0
	44	CC2 - CIP column - 24" dia x 30'-1"h	1.00	ea		Included	$0
	45	CC3 - CIP column - 18"x30" x 14'-5"h	1.00	ea		Included	$0
	46	CC3 - CIP column - 18"x30" x 30'-9"h	1.00	ea		Included	$0
	47	CC3 - CIP column - 18"x30" x 29'-0"h	7.00	ea		Included	$0
	48	CC4 - CIP column - 18"x30" x 31'-9"h	5.00	ea		Included	$0
	49	CC5 - CIP column - 20"x30" x 20'-8"h	1.00	ea		Included	$0
	50	CC6 - CIP column - 18"x18" x 29'-0"h	1.00	ea		Included	$0
	51	CIP 12x36 beam over pool (C/S2.9, G/S2.10)	93.00	lf		Included	$0
	52	CIP 20x36 beam (F,G,H/S2.9, E/S2.10)	212.00	lf		Included	$0
	53	CIP 16x61 beam (D/S2.9, C,H/S2.10)	128.00	lf		Included	$0
	54	Shoring for CIP beams	1.00	ls		Included	$0
	55	12" CIP Stair/Elev Core Walls				Stair & Elev Cores now CMU walls	$0
	56	Reinforcing Steel - Material	28.00	tons		Included	$0
	57	Reinforcing Steel - labor	28.00	tons		Included	$0
	58	Concrete Foreman	1.00	ls		Included	$0
	59	Unloading, moving rebar	1.00	ls		Included	$0
	60	Void Form for GB - material				N/A	$0
	61	Void Form for GB - labor				N/A	$0
	62	Concrete Material	188.00	cy		Included	$0
	63	Additives for concrete	1.00	ls		Included	$0
	64	Pumping	1.00	ls		Included	$0
	65	Short load/off hour deliveries	1.00	ls		Included	$0
	66	MWBE Participation				Refer to MWBE worksheet	
03 11 00 Total						$475,000	
03 30 05	Concrete Materials						
	1	Sitework - Gray concrete				w/ Site Conc	$0

Central Denver Recreation Center

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	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
03 30 05	2	Caissons				W/ Caissons	$0
	3	Pier caps, footings, column pads, grade beams, columns - material				w/ Foundations	$0
	4	SOV - material				w/ Slabs	$0
	5	SOD - material				w/ Slabs	$0
	6	Short load/off hour deliveries				w/ Conc	$0
	7	Fibermesh				w/ Conc	$0
	8	Additives for concrete flatwork				w/ Conc	$0
	9	CONCRETE PUMP, fnd & slabs				w/ Conc	$0
03 30 05 Total						$0	
03 20 00	Concrete Reinforcing						
	1	Concrete reinforcing steel (bldg)				w/ Foundations	$0
	2	Masonry reinforcing steel				w/ Masonry	$0
	3	Install concrete rebar				w/ Foundations	$0
	4	Accessories material (chairs,spacers, safety caps, etc)				w/ Conc	$0
	5	Accessories - labor				w/ Conc	$0
03 20 00 Total						$0	
03 40 00	Precast Concrete						
	1	Precast Concrete				Structure Changed to Steel Framed	$0
03 40 00 Total						$0	
03 35 11	Concrete Floor Finishes						
	1	Polished concrete floor systems				With Division 9 Flooring	$0
03 35 11 Total						$0	
Division 03 - Concrete Total						*$918,984*	
Division 04 - Masonry							
04 20 00	Unit Masonry						
	1	Unit Masonry	1.00	sub	$1,647,175.00		$1,647,175
	2	W206 - CMU, 6" walls 14-18' height	10385.00	sf		Included	$0
	3	W208 - CMU, 8" walls 14-18' height	6967.00	sf		Included	$0
	4	W212 - CMU, 12" walls -14-18' height	16069.00	sf		Fire wall scope added at 100% CDs	$0
	5	12" CMU 3hr fire wall at grid C	1.00	ls		Included	$0
	6	CMU Locker bases	261.00	lf		Included	$0
	7	Firestopping of rated CMU walls	1.00	ls	$4,250.00		$4,250
	8	Exterior brick veneer - Norman brick size running bond	32681.00	sf		Brick qty increased by 4,400 s.f.	$0
	9	Exterior brick veneer - Norman brick size stacked bond	5743.00	sf		Included	$0
	10	Color match mortar for dark and light brick color	1.00	ls		Included	$0
	11	Vertical s.s. reveal at stacked bond per 6/A732	1.00	allow	$7,500.00	Allowance based on 340 l.f. @ $22/lf	$7,500
	12	Anti-graffitti coating				With Paint	$0
	13	Garden wall columns per detail 6/L8	6.00	ea		Included	$0
	14	Masonry reinforcing steel	50.13	tons	$960.00		$48,126
	15	Bullnose corners	1.00	ls		Included	$0
	16	Insulation				w/ Div 7	$0
	17	Layout of masonry walls	33421.00	ls	$0.08		$2,674
	18	Grout HM door frames in CMU walls	21.00	ea	$350.00		$7,350
	19	Layout and install locker bench support arms	115.00	ea	$19.24		$2,213
	20	Clean masonry	1.00	ls		Included	$0
	21	Shoring for door & window openings	41.00	ea	$198.94		$8,157
	22	Deadmen for bracing of masonry	1.00	ls	$3,000.00		$3,000
	23	Masonry corner plywood protection	24.00	ea	$140.97		$3,383
	24	Remove debris from job site	72108.00	sf	$0.08		$5,769
		MWBE Participation				Refer to MWBE worksheet	
04 20 00 Total						$1,739,596	
Division 04 - Masonry Total						*$1,739,596*	
Division 5 - Steel							
05 12 00	Structural Steel						
	3	BP#2 Structural Steel	1.00	sub	$4,025,750.00	Shop Drawings & Detailing in Allowance Above	$4,025,750
	4	Columns, beams, bracing, steel joists	1163.00	tons		Included	$0
	5	Floor and roof decking	1.00	ls		Included	$0
	6	Standard floor and roof decking	1.00	ls		Included	$0
	7	Bent plates, deck L	1.00	ls		Included	$0
	8	Brick angle, galvanized	1.00	ls		Included	$0
	9	SP6 blast prep and Tnemec 90-97 High Perf Primer @ Natarorium & Pool Mech	1.00	ls		Included	$0
	10	Curtainwall support framing	1.00	ls		Included	$0
	11	Erect steel, joists and decking	1.00	ls		Included	$0
	12	AESS notes on: 4/A607; 11/A608; 1/A615; 2,3/A616; 3,4/A617	1.00	ls		Included - Scope added at 100% CD's	$0
	13	Misc Steel Fabrication	1.00	ls		Below	$0
	14	Main Stair, TS stringers, pan treads, custom rail	105.00	risers		Included	$0
	15	East Stair (egress), C stringers, pan treads, simple rail	105.00	risers		Included	$0
	16	Exterior Stair, egress, grating treads, std picket rail	24.00	risers		Included	$0

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	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
05 12 00	17	Steel pan stair between Cardio/Gym (A114, 9/A504)	1.00	ls		Included	$0
	18	Utility/Trash screen wall - T.S. columns, kickers	338.00	lf		Included	$0
	19	Stair to pool mech pump pit, grating treads, std rail	13.00	risers		Included	$0
	20	Stair from Gym to Weight Rm	1.00	ls		Included	$0
	21	Guardrail only at 2nd Fl and Mezzanine	35.00	lf		Included	$0
	22	Roof ladders	1.00	ls		Included	$0
	23	Elev pit ladder	1.00	ea		Included	$0
	24	Guardrail around pump pit	37.00	lf		Included	$0
	25	Wall mounted stair handrail @ Gym/Weight Rm	18.00	lf		Included	$0
	26	Exterior primed 5 pipe guardrail at ramp	200.00	lf		Included	$0
	27	Exterior primed wall mounted stair handrail	19.00	lf		Included	$0
	28	Steel supports for gym equipment				Not Included	$0
	29	Divider curtain supports S3.8	1.00	ls		Included	$0
	30	Skylight framing	1.00	ls		Included	$0
	31	Decorative metal railings at overhead sectional doors (A302, 3/A701)	1.00	ls		Included	$0
	32	Guardrail at egress stair from lower level, east elevation, col. D and A304	1.00	ls		Included	$0
	33	Perimeter angle at all skylights, 1/A741	1.00	ls		Included	$0
	34	Diamond plate at fitness curb 1/A740	1.00	ls		Included	$0
	35	labor to install diamond plate at fitness curb	192.00	lf	$12.00		$2,304
	36	Masonry lintels and ledger angles	1.00	ls		Included	$0
	37	All ledger angles supporting brick or masonry shall be galvanized (S1.0, #16)	1.00	ls		Included	$0
	38	Weld rebar to bent plate slab edge (B/S2.6)	1.00	ls		Included	$0
	39	Misc Metals building & site				Owner to pay for missing items from Owner contingency	$0
	40	Touch-up epoxy paint and galvanized steel	60868.00	sf	$0.12		$7,304
	41	Parapet railing or railings at rooftop				Not Included	$0
	42	Steel sunshades				Assumed with Curtainwall System	$0
	43	IAC or AISC certifications	1.00	ls		Included	$0
	44	Safety cabling - furnish and install	1.00	ls		Included	$0
	45	Safety cabling - maintain and removal	2322.00	lf	$2.25		$5,225
	46	Structural or misc steel for the "stud support info" doc in Clarification 2				We understand the intent is for metal stud subs	$0
	47	MWBE Participation				Refer to MWBE worksheet	
05 12 00 Total						$4,040,583	
05 50 00	Metal Fabrications						
	1	Metal Fabrication				w/ Steel Above	$0
05 50 00 Total						$0	
05 90 00	Steel Erection & Coordination						
	1	Steel Erection				w/ Steel Above	$0
05 90 00 Total						$0	
05 21 00	Steel Joist Framing						
	1	Steel Joists				w/ Steel Above	$0
05 21 00 Total						$0	
05 30 00	Metal Deck						
	1	Decking				w/ Steel Above	$0
05 30 00 Total						$0	
Division 5 - Steel Total						*$4,040,583*	
Division 6 - Carpentry							
06 10 53	Rough Carpentry						
	1	Rec Center:					$0
	2	Roof blocking layout	15.00	hrs	$74.60		$1,119
	3	Parapet blocking (2) 18" rips of 3/4 plywood and (2) ripped 2x4's	1286.00	lf	$17.42		$22,405
	4	2x blocking at base of parapet (1) 2x6 and (2) 2x4's	1286.00	lf	$4.65		$5,981
	5	Roof curb, hatch or skylight blocking 2x6 14" high	815.00	lf	$13.53		$11,028
	6	Full height fire retardant plywood	1024.00	sf	$3.76		$3,850
	7	Concealed blocking, fire rated 2x6 curfed for metal studs	393.00	lf	$4.24		$1,667
	8	Danback blocking 16" high				N/A	$0
	9	- Shelves, countertops, cabinets, trim	595.00	lf	$3.41		$2,027
	10	- Toilet accessories, projection screens, fire extinguishers	577.00	lf	$3.41		$1,966
	11	Doors & windows 2x6 fire rated	2656.00	lf	$5.53		$14,689
	12	Low height wall cap blocking 2x4	280.00	lf	$2.24		$628
	13	Misc. blocking items	0.05		$65,360.39		$3,268
06 10 53 Total						$68,628	
06 18 00	Glu-Laminated Construction						
	1	Glu-Lam Construction				Not Included	$0
06 18 00 Total						$0	
06 22 13	Finish Carpentry						

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	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
06 22 13	1	Finish Carpentry	1.00	sub	$193,245.12		$193,245
	2	Lifeguard - p.lam base and upper cabinets with solid surface c-top	10.00	lf		Included	$0
	3	Party room - p.lam casework with solid surface countertop	10.00	lf		Included	$0
	4	Locker Room - solid surface c-tops with apron	41.00	lf		Included	$0
	5	Plastic locker benches with wall mounted brackets	307.00	lf		Included	$0
	6	Restroom - solid surface c-tops with apron	38.00	lf		Included	$0
	7	Entry Lobby - reception desk	35.00	lf		Exceeded previous allowance by $18k	$0
	8	Admin breakroom - p.lam base and upper cabinets with solid surface c-tops	20.00	lf		Included	$0
	9	Drop-in childcare - p.lam secured check-in counter with gate	13.00	lf		Included	$0
	10	Drop-in Childcare - p.lam casework with solid surface c-top	15.00	lf		Included	$0
	11	MDF cutouts on walls of childcare per A608				Not Included in Base - with Alternate 5	$0
	12	Flex classroom - p.lam upper and lower casework with solid surface c-top	16.00	lf		Included	$0
	13	Wood cap at partial height wall on ramp	85.00	lf/allow	$35.70		$3,035
	14	Bench at stair M02	1.00	ls		Included - Scope added at 100% CDs when egress stair was added	$0
	15	Fitness Studio - coat hooks and cubbies	4.00	lf		Included	$0
	16	Wood handrail at main stair	246.00	lf		Included	$0
	17	Cardio power curb	64.00	lf/allow	$85.00		$5,440
	18	Solid surface window sills at natatorium 6/A722	179.00	lf/allow	$40.00		$7,160
	19	Beetle kill pine at front desk ceiling 1/A761	320.00	sf		With Ceiling	$0
	20	Caulk countertops & cabinets	1404.00	lf	$2.00		$2,808
	21	Protect casework during construction	595.00	lf	$2.45		$1,458
	22	AWI Certification and Labels				Not Included - AWI Certification and Labels are additional cost	$0
	23	Warranty period - 1 year				5 year warranty period is additional cost	$0
	24	MWBE Participation				Refer to MWBE worksheet	
06 22 13 Total						$213,145	
Division 6 - Carpentry Total						*$281,774*	
Division 7 - Thermal and Moisture Protection							
07 13 26		Waterproofing					
	1	Waterproofing and Damproofing	1.00	sub	$57,324.00		$57,324
	2	Self adhered sheet waterproofing for pump pit	1.00	ls		Included	$0
	3	Self adhered sheet waterproofing at elevator pit	1.00	ls		Included	$0
	4	Dampproofing at grade beams	9750.00	sf		Included	$0
	5	Waterproofing at below grade walls	8406.00	sf		Included	$0
	6	Drainage /protection board	18156.00	sf		Included	$0
	7	MWBE Participation				Refer to MWBE worksheet	
07 13 26 Total						$57,324	
07 21 13		Building Insulation					
	1	Building Insulation	1.00	sub	$174,174.00	Included	$174,174
	2	2" closed cell spray foam at exterior perimeter walls	1.00	ls		ABAA Certified Installers Not Included	$0
	3	Spray foam insulation at south soffit	1.00	ls		ABAA Certification of project not included	$0
	4	Misc Spray foam insulation at exterior walls	1.00	ls		Included	$0
	5	Mineral wool at metal wall panels				With Metal Panels	$0
	6	R-5 rigid insulation under wood and athletic rubber flooring	1.00	sub	$30,257.15	Scope Added at 100% CDs	$30,257
	7	Batt insulation in cavities behind metal panel	1.00	sub	$47,096.00		$47,096
	8	Self healing fluid applied vapor barrier at natatorium per 1/A745	1.00	sub	$19,224.10	Scope Added at 100% CDs	$19,224
	9	R-19 batt insulation in interior stud cavities				With Drywall Assemblies	$0
	10	Independent testing				By Owner	
	11	MWBE Participation				Refer to MWBE worksheet	
07 21 13 Total						$270,751	
07 42 13		Metal Wall Panels					
	1	Rec Center:					$0
	2	BOD: Firestone Una Clad VR-Classic Panel System	1.00	sub	$175,766.40		$175,766
	3	Louvered Metal panels at utility and trash enclosure - No Spec	1.00	allow	$12,000.00	Allowance based on $20/sf	$12,000
	4	Fiberglass subgirt framing for metal panels, galvanized				Included	$0
	5	2" mineral fiberboard insulation	1.00	ls		Included	$0
	6	PrefinishedUna-Clad UC-500 flush soffit panels	2475.00	sf		Included	$0
	7	Una Clad Series 45 Panel System				Referenced in spec but not shown on drawings	$0
	8	Roof flashing and trim, 24 ga parapet coping, steel reglet and counterflashing	1.00	ls		Included	$0
	9	MWBE Participation				Refer to MWBE worksheet	
07 42 13 Total						$187,766	
07 19 16		Water Repellent Coating					
	1	CMU				Not Included	$0
	2	Brick/ EIFS (Siloxane, Etc.G829)				Not Included	$0
07 19 16 Total						$0	
07 92 13		Caulking & Sealants					

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	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
07 92 13	1	Caulking and Sealants	1.00	sub	$38,454.00		$38,454
	2	Caulking & sealants , building	1.00	ls		Included	$0
	3	Site sealants, expansion joints	1.00	ls		Included	$0
	4	MWBE Participation				Refer to MWBE worksheet	
07 92 13 Total						$38,454	
07 84 13	Fire Stopping - Insulation & Sealants						
	1	Firestopping per sf of building	60868.00	sf	$0.15	Misc penetrations and perimter of building	$9,130
07 84 13 Total						$9,130	
07 81 16	Spray Fireproofing						
	1	Spray fireproofing	1.00	sub	$21,500.00	Scope Added at 100% CDs	$21,500
	2	Medium density material at humid locations	1.00	ls		Included	$0
	3	Standard density material at remaining location	1.00	ls		Included	$0
	4	Patching, mobilize patch crew	2.00	days	$3,500.00		$7,000
	5	MWBE Participation				Refer to MWBE worksheet	
07 81 16 Total						$28,500	
07 71 00	Roof Specialties & Accessories						
	1	Roof scuttle, 3-0 x 3-0, galv. steel	2.00	ea	$1,500.00		$3,000
	2	Ladder up safety post	2.00	ea	$450.00		$900
	3	Safety railing	2.00	ea	$250.00		$500
	4	Unload, handle and install	6.00	ea	$200.00		$1,200
07 71 00 Total						$5,600	
07 81 23	Interior Intumescent Fireproofing						
	1	Intumescent Fireproofing					$0
07 81 23 Total						$0	
07 95 00	Expansion Control						
	1	Building Expansion Control	486.00	lf/allow	$75.00		$36,450
07 95 00 Total						$36,450	
07 54 23	Roofing & Roof Insulation						
	1	Rec Center:					$0
	2	BOD: Firestone 60 mil White TPO, fully adhered	1.00	sub	$246,230.04		$246,230
	3	Min R20 polyiso insulation with tapered crickets per roof plan	1.00	ls		R20 insulation per drawings	$0
	4	Extend insulation up back of parapet per detail 6,11/A741	1.00	ls		Included	$0
	5	20 year warranty with 2" dia hail rider				Included	$0
	6	Vapor retarder at Natatorium	1.00	ls		Included	$0
	7	Rubber roof walk pads 30"w per roof plan	1.00	ls		Included	$0
	8	Mechanical curbs and flashing	791.00	lf	$22.00		$17,402
	9	Snow removal for roof work	1.00	ls	$6,157.69		$6,158
	10	Safety measures for roof work	1.00	ls	$5,078.84		$5,079
	11	MWBE Participation				Refer to MWBE worksheet	
07 54 23 Total						$274,869	
Division 7 - Thermal and Moisture Protection Total						*$908,844*	
Division 8 - Openings							
08 12 13	Hollow Metal Doors and Frames						
	1	Rec Center:					$0
	2	Doors Frames and Hardware	1.00	sub	$106,448.76		$106,449
	3	3070 HM Doors - single	18.00	ea		Included	$0
	4	3070 HM Doors - pair	3.00	pr		Included	$0
	5	3070 Fire rated Stainless Steel Doors - pair	3.00	pr		Scope Added at 100% CDs	$0
	6	3070 HM Frame	41.00	ea		Included	$0
	7	6070 HM Frame	12.00	ea		Included	$0
	8	6070 Stainless Steel Frame	3.00	ea		Included	$0
	9	Unload/handle/distribute	86.00	ea		Included	$0
	10	Installation	81.00	ea		Included	$0
	11	Misc grinding, bondo	80.00	ea	$25.50		$2,040
	12	MWBE Participation				Refer to MWBE worksheet	
08 12 13 Total						$108,489	
08 71 00	Hardware						
	1	Door Hardware				With Above	$0
	2	Hardware sets per 08 7100 schedule	1.00	ls		Included	$0
	3	Unload/handle/distribute	56.00	ea		Included	$0
	4	Installation	56.00	ea		Included	$0
08 71 00 Total						$0	
08 14 00	Wood Doors						
	1	Prefinish wood doors, plain sliced white maple				With Above	$0
	2	3070 Solid Core Wood Door - single	23.00	ea		Included	$0
	3	3070 Solid Core Wood Door - pair	9.00	pr		Included	$0
	4	3070 Solid Core Wood Door - slider	1.00	ea		Included	$0
	5	3030 Solid Core Wood Door - single	5.00	ea		Included	$0

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	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
08 14 00	6	Unload/handle/distribute	47.00	ea		Included	$0
	7	Installation	47.00	ea		Included	$0
	8	Wood door protection	47.00	ea	$40.00		$1,880
	9	Misc wood door patch and repair	47.00	ea	$10.00		$470
08 14 00 Total						$2,350	
08 31 00	Access Doors						
	1	General allowance	1.00	ls	$5,000.00		$5,000
08 31 00 Total						$5,000	
08 41 00	Aluminum Entrances						
	1	Aluminum Storefront	1.00	sub	$1,051,464.15		$1,051,464
	2	BOD: Arcadia T670, front set glazed, dark bronze anodized	4353.00	sf		Included	$0
	3	OPG Kaiser caps mullion caps				Included	$0
	4	Spandrel panels by Mapes-R insulated composite panels	1.00	ls		Included	$0
	5	Interior storefront framing : AR450P	1718.00	sf		Included	$0
	6	Interior storefront framing : T670	964.00	sf		Included	$0
	7	20 year finish warranty	1.00	ls		Included	$0
	8	Aluminum Curtainwall				Included	$0
	9	BOD: Arcadia T500, outside glazed, dark bronze anodized	2148.00	sf		Included	$0
	10	5 year workmanship warranty	1.00	ls		Included	$0
	11	Aluminum Sunshades	1.00	ls		Included	$0
	12	Airfoil type louver, fixed aluminum				Included	$0
	13	Aluminum doors, frames, and hardware sets per leaf	44.00	ea		Included	$0
	14	Laminated glazing surrounding natatorium				Included	$0
	15	Tinted glazing at exterior storefront/curtainwall				Not Included	$0
	16	ADA operators	3.00	ea	$1,833.00		$5,499
	17	Field testing				Not Included	$0
	18	MWBE Participation				Refer to MWBE worksheet	
	19	NFRC Certificate for exterior storefront/curtainwall systems (not per opening)				See additional cost for NFRC Cert	$0
08 41 00 Total						$1,056,963	
08 80 00	Glass & Glazing						
	1	Full length wall mirrors				Included Above	$0
	2	1/4" tempered glazing doorlites				Included Above	$0
	3	GPH 5 & 6 on locker room sidelites	1.00	ls	$400.00	based on 20 s.f. of sidelites	$400
08 80 00 Total						$400	
08 95 00	Insulated Translucent Fiberglass Panel Wall System						
	1	BOD: Kalwall w/ manufacturer standard crystal both face panels	1.00	sub	$36,890.00		$36,890
	2	Translucent panel wall assembly - standard crystal at interior and exteriors faces	500.00	sf		Included	$0
	3	Installation	1.00	ls		Included	$0
	4	MWBE Participation				Refer to MWBE worksheet	
08 95 00 Total						$36,890	
08 36 13	Overhead Doors						
	1	BOD: Wilson Doors Clear Vue aluminum and glass sectional doors	1.00	sub	$19,976.00		$19,976
	2	10'0"x16'0" Insulated sectional doors, electric operator	2.00	ea		Included	$0
	3	Brake metal surround at head and jamb of overhead doors	72.00	lf	$22.50		$1,620
	4	Overhead coiling door - 8'0"x11'0" manual operation	2.00	ea		Included	$0
	5	MWBE Participation				Refer to MWBE worksheet	
08 36 13 Total						$21,596	
08 6200	Unit Skylights						
	1	BOD: Sunoptics Signature Series Prismatic Skylights	1.00	sub	$5,519.36		$5,519
	2	Double glazed 4080 unit skylights	5.00	ea		Included	$0
	3	Roof curb and associated flashing	140.00	lf	$7.25		$1,015
	4	Installation	5.00	ea	$307.88		$1,539
	5	MWBE Participation				Refer to MWBE worksheet	
08 6200 Total						$8,074	
Division 8 - Openings Total						*$1,239,762*	
Division 09 - Finishes							
09 30 00	Tiling						
	1	Floor and Wall tiling	1.00	sub	$223,309.99		$223,310
	2	CMT 1-4 Daltile and American Olean mosaic floor tile	6905.00	sf		Included	$0
	3	CMT - B1 and B2	1465.00	lf		Included	$0
	4	CWT 1-6 Daltile wall tile	4193.00	sf		Included	$0
	5	CWT Bullnose tile	446.00	lf		Included	$0
	6	Porcelain floor tile - Daltile Invoke 12"x24"	844.00	sf		Included	$0
	7	Schluter transition strips at floor tile	1.00	ls		Included	$0
	8	Recessed slab at floor tile extending into natatorium	1.00	ls	$1,231.54		$1,232
	9	Crack Isolation Membrane	13853.00	sf		Included	$0

Central Denver Recreation Center

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	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
09 30 00	10	Floor protection	7749.00	sf	$0.37		$2,887
	11	Epoxy Grout - at all surfaces in locker rooms and floors of restrooms	11942.00	sf		Included	$0
	12	MWBE Participation				Refer to MWBE worksheet	
09 30 00 Total						$227,428	
09 51 00	Acoustical Ceilings						
	1	Acoustical Ceilings	1.00	sub	$61,100.00		$61,100
	2	SAT1 - Armstrong 24"x24" cirrus tegular or equal	2958.00	sf		Included	$0
	3	SAT1 -Cloud ceilings Armstrong 24"x24" cirrus tegular with 4" axiom classic edge	2700.00	sf		Included	$0
	4	SAT3 - Vinyl faced Armstrong Ceramaguard or equal				Not Included, None shown on drawings	$0
	5	3 1/2" acoustical batt insulation above ceilings in Admin 120	1282.00	sf		Included	$0
	6	Decorative wood ceiling above reception desk	320.00	sf		Included	$0
	7	Edge trim at ceiling clouds, 4" axiom or similar	453.00	lf		Included	$0
	8	Layout of ceilings	5978.00	sf	$0.08		$478
	9	MWBE Participation				Refer to MWBE worksheet	
09 51 00 Total						$61,578	
09 64 00	Wood Flooring						
	1	Wood Athletic Flooring	1.00	sub	$116,099.50		$116,100
	2	Gym - AacerChannel VLP, 2nd grade or better	9436.00	sf		Included	$0
	3	Fitness and Group Excercise - AacerCush II	2136.00	sf		Included	$0
	4	Zero G shock pad, 5/8" thick at gym, 7/16" thick at fitness system	1.00	ls		Included	$0
	5	Vented cove base	1.00	ls		Included	$0
	6	R-5 rigid insulation and OSB on vapor barrier (A001, F3)	9436.00	sf		With Division 7	$0
	7	Wood treads and risers at basketball court	180.00	lf			$0
	8	Floor protection	11572.00	sf	$0.40		$4,629
	9	Add for FSC Certified wood				Not Included	$0
	10	Includes finishing, markings, volleyball inserts	1.00	ls		Included	$0
	11	Painted logo at center court or multicolor patterns				Not Included	$0
	12	MWBE Participation				Refer to MWBE worksheet	
09 64 00 Total						$120,728	
09 65 02	Floor Moisture Mitigation						
	1	Floor Moisture Mitigation				Not Included	$0
09 65 02 Total						$0	
09 68 00	Carpet						
	1	Carpet	1.00	sub	$16,688.23		$16,688
	2	CPT1 - Tandus Nano 24" x 24" Steel Sequence	84.00	sy		Included	$0
	3	CPT2 - Mohawk / Lees Hexagonal Infusion 12" x 36"	88.50	sy		Included	$0
	4	CPT3 - Mohawk / Hustle and Bustle 24"x24"	194.00	sy		Included	$0
	5	CPT4 - Mowhawk/Lees Super Fresh 24"x24"	44.00	sy		Included	$0
	6	Moisture tests (1/1000sf)	4.00	ea	$100.00		$400
	7	Floor prep and joint grinding	3694.50	sf	$0.50		$1,861
	8	Floor protection	3694.50	sf	$0.37		$1,376
	9	MWBE Participation				Refer to MWBE worksheet	
09 68 00 Total						$20,325	
09 90 00	Painting and Coating						
	1	Painting and Coating	1.00	sub	$533,615.00		$533,615
	2	SITE:	1.00	ls		Included	$0
	3	Bollards	1.00	ls		Included	$0
	4	Site guardrails	1.00	ls		Included	$0
	5	Site handrails	1.00	ls		Included	$0
	6	HPC at site utility enclosure (A750)	1.00	ls		Included	$0
	7	Rec Center:	1.00	ls		Included	$0
	8	Tnemec, high performance paint at Natatorium ceiling	1.00	ls		Included	$0
	9	Tnemec paint at cmu walls in Natatorium	1.00	ls		Included	$0
	10	GRPH 1 Pattern on Natarorium walls	1.00	ls	$160,617.50		$160,618
	11	Dryfall paint exposed structure at ceiling	1.00	ls		Included	$0
	12	Gyp Bd walls	1.00	ls		Included	$0
	13	CMU walls	1.00	ls		Included	$0
	14	Block wall filler on all CMU walls requiring paint	1.00	ls		Included	$0
	15	Cementitious block wall filler at all CMU walls in wet areas (A001 #2)	1.00	ls		Included	$0
	16	Gyp bd ceilings /soffits	1.00	ls		Included	$0
	17	Guardrails	1.00	ls		Included	$0
	18	Handrails	1.00	ls		Included	$0
	19	Sealed concrete floors	5052.00	sf		Included	$0
	20	Sealant on concrete slab-on-deck above Natatorium (A001, F3)	1.00	ls		Included	$0
	21	Seal all penetrations, walls, etc in Natatorium (A211 #5)	1.00	ls		Included	$0
	22	Touch up of doors & frames	86.00	ea	$15.00		$1,290
	23	Touch up paint at completion of project	60868.00	sf	$0.08		$4,869
	24	Warranty - 5 years (099600-1.12)	1.00	ls		Included	$0

Central Denver Recreation Center

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	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
09 90 00	25	Anti-graffitti coating	1.00	ls	$77,336.25	Coating at all brick and concrete locations	$77,336
	26	MWBE Participation				Refer to MWBE worksheet	
09 90 00 Total						$777,728	
09 21 16	Gypsum Board Assemblies						
	1	Gypsum Board Assemblies	1.00	sub	$887,655.00		$887,655
	2	W104 - 3-5/8" stud wall, gyp both sides full height				Included	$0
	3	W106 - 6" stud wall, gyp both sides full height				Included	$0
	4	W112 - Plumbing chase wall, full height				Included	$0
	5	W116 - 10" stud wall with gyp bd both sides				Included	$0
	6	W180 - 6" mtl stud walls, gyp inside/dens shield out, batt insulation				Included	$0
	7	W190 - 6" mtl stud walls, gyp inside/dens shield out, batt insulation				Included	$0
	8	Metal stud framing for 2nd Floor Cardio Ramp (6/A504)				Included	$0
	9	Ext mtl stud soffit framing				Included	$0
	10	Acoustical batt insulation in stud cavities				Included	$0
	11	Gyp soffits				Included	$0
	12	Gyp ceilings				Included	$0
	13	2 layers gyp bd on resilient channels above admin space				Included	$0
	14	Acoustical sealants at all penetrations in walls STC 45 or greater (A001 #6)				With Trades	$0
	15	Interior wall engineering	1.00	ls		Included	$0
	16	Layout partitions and ceilings	60868.00	sf	$0.08		$4,869
	17	Patch and repair at completion of project	60868.00	sf	$0.02		$1,217
	18	Level 5 Finish				Not Included	$0
	19	MWBE Participation				Refer to MWBE worksheet	
09 21 16 Total						$893,742	
09 24 00	Cement Plastering						
	1	Acrylic polymer coating at locker rooms and natatorium as indicated	1.00	sub	$86,561.25		$86,561
	2	APC at sloped pool office ceiling 3/A746	1.00	ls			$0
	3	Acrylic polymer coating at Natatorium walls	1.00	ls		General note indicastes APC, sections show HPC	$0
	4	MWBE Participation					
09 24 00 Total						$86,561	
09 80 00	Acoustic Treatment						
	1	Tectum Acoustical Panels at gym walls				Not Included	$0
	2	Ceiling hung lapendary panels				See Alternate	$0
09 80 00 Total						$0	
09 65 00	Resilient Flooring						
	1	Resilient Flooring	1.00	sub	$26,990.23		$26,990
	2	Forbo marmoleum, mfg standard colors, 5 colors	2360.00	sf		Included	$0
	3	Moisture mitigation at Forbo	2360.00	sf	$4.00		$9,440
	4	Johnsonite rubber base, 4" h. with toe,	3034.00	lf		Included	$0
	5	Rubber stair treads, risers and base				Not Included, None shown on drawings	$0
	6	Rubber stair landings				Not Included, None shown on drawings	$0
	7	2 year installation and material warranty	1.00	ls		Included	$0
	8	Floor prep and joint grinding	2360.00	sf	$0.40		$945
	9	Floor protection	2360.00	sf	$0.37		$879
	10	MWBE Participation				Refer to MWBE worksheet	
09 65 00 Total						$38,255	
09 65 66	Resilient Athletic Flooring						
	1	Rubber athletic flooring	1.00	sub	$139,060.68		$139,061
	2	Weight/Cardio Room, Plyometrics- Mondo 10mm thick, 4 colors	7944.00	sf		Included	$0
	3	R-5 rigid insulation and OSB on vapor barrier(A001, F4)	6827.00	sf		With Division 7	$0
	4	2 year installation and material warranty	1.00	ls		Included	$0
	5	Moisture tests (1/1000sf)	7.94	ea	$100.00		$794
	6	Floor prep and joint grinding	7944.00	sf	$0.50		$4,001
	7	Floor protection	7944.00	sf	$0.37		$2,959
	8	MWBE Participation				Refer to MWBE worksheet	
09 65 66 Total						$146,815	
09 72 00	Wall Coverings						
	1	VWC				Not Included	$0
	2	Wall Talkers				Not Included	$0
09 72 00 Total						$0	
09 77 00	Special Wall Surfacing						
	1	Class "C" fiberglass reinforced panels	1024.00	sf	$4.25		$4,352
09 77 00 Total						$4,352	
09 62 00	Specialty Floor Finishes						
	1	Polished concrete	1.00	sub	$28,776.00		$28,776

Central Denver Recreation Center
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	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
09 62 00	2	Lobby, Corridor, Main Stair	3427.00	sf		Includes treads only at main stair	$0
	3	Acid etched with tnemec decorative painted stripes	331.00	sf		Included	$0
	4	Floor protection	3427.00	sf	$1.24	Includes protection prior to and after staining	$4,249
	5	Joint sealants for applicable polished concrete floor system	950.00	lf		Included	$0
	6	MWBE Participation				Refer to MWBE worksheet	
09 62 00 Total						$33,025	
Division 09 - Finishes Total						*$2,410,538*	
Division 10 - Specialities							
10 21 13		Toilet Partitions					
	1	Bobrick Sierra Series floor mounted overhead braced	1.00	sub	$24,662.48		$24,662
	2	Phenolic toilet partitions in Locker Rooms / Restrooms	20.00	ea		Included	$0
	3	Phenolic urinal screens, wall mounted	6.00	ea		Included	$0
	4	Shower partitions in Womens Locker room	3.00	ea		Included	$0
	5	Installation	29.00	ea		Included	$0
	6	MWBE Participation				Refer to MWBE worksheet	
10 21 13 Total						$24,662	
10 44 00		Fire Extinguishers, Cabinets, & Accessories					
	1	Fire Extinguishers - 10# multipurpose	10.00	ea	$110.00		$1,100
	2	Cabinets - semi recessed, white trim, full glass door	10.00	ea	$125.00		$1,250
	3	Blocking @ opening	10.00	ea	$50.60		$506
	4	Unload,handle and install	10.00	ea	$34.50		$345
10 44 00 Total						$3,201	
10 11 16		Marker Boards					
	1	Markerboards or Display boards				Not Included	$0
10 11 16 Total						$0	
10 28 00		Toilet & Bath Accessories					
	1	Locker Room Toilet Accessories	1.00	sub	$24,083.08		$24,083
	2	Grab bars 36"	13.00	ea		Included	$0
	3	Grab bars 42"	15.00	ea		Included	$0
	4	Grab bars 18"	27.00	ea		Included	$0
	5	TP holders - multi roll	4.00	ea		Included	$0
	6	Soap dispenser, chrome, liquid	22.00	ea		Included	$0
	7	Automatic foam soap dispenser	14.00	ea		Included	$0
	8	Paper towel dispensers / waste receptacle	1.00	ea		Included	$0
	9	Napkin/Tampon vendor				N/A	$0
	10	Napkin waste, surface mounted	19.00	ea		Included	$0
	11	Seat cover dispensers	24.00	ea		Included	$0
	12	Mirrors 24" x 36"	29.00	ea		Included	$0
	13	Koala diaper mounted changing station	14.00	ea		Included	$0
	14	Diaper dispenser	2.00	ea		Included	$0
	15	Waste Receptacles	9.00	ea		Included	$0
	16	Hand dryers	21.00	ea		Included	$0
	17	Shower seats, folding	6.00	ea		Included	$0
	18	Shower curtains and hooks	10.00	ea		Included	$0
	19	Robe hook	16.00	ea		Included	$0
	20	Double robe hook	40.00	ea		Included	$0
	21	Utility shelf with mop and broom holders	4.00	ea		Included	$0
	22	Install toilet accessories	246.00	ea		Included	$0
10 28 00 Total						$24,083	
10 75 00		Flagpole					
	1	Aluminum - 33' overall ht, 30' exposed, 2-piece pole				Removed from scope per 05/08/15 mtg	$0
10 75 00 Total						$0	
10 14 00		Identifying Devices					
	1	Building Code Signage	1.00	allow	$15,000.00	Discussed allow w/ design team 11-7-14	$15,000
	2	Building Wayfinding Signage	1.00	allow	$40,000.00	Discussed allow w/ design team 11-7-14	$40,000
	3	2" high photopolymer lens with ada tactile room numbers				Included	$0
	4	Digital signage				By Owner part of FFE	$0
10 14 00 Total						$55,000	
10 14 53		Traffic Signage					
	1	Traffic Control Signs	1.00	ls	$5,500.00		$5,500
	2	Monument building sign -Allowance	1.00	allow	$30,000.00	Discussed allow w/ design team 11-7-14	$30,000
10 14 53 Total						$35,500	
10 12 00		Display Cases					
	1	Display Cases				Not Included	$0
10 12 00 Total						$0	
10 51 00		Lockers					
	1	BOD: Columbia Lockers, phenolic	1.00	sub	$96,028.71		$96,029
	2	Locker Rooms - double tier, 14"x18"x60"	148.00	ea		Included	$0

Adolfson & Peterson Construction

Central Denver Recreation Center

Detailed Cost Estimate and Budget Control Document

Bid Package #2 - GMP

	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
10 51 00	3	Locker Rooms - single tier, 14"x18"x60"	67.00	ea		Included	$0
	4	Life Guard - 3 tier - 12"x12"x36"	4.00	ea		Included	$0
	5	Admin - 3 tier 12"x12"x36"	13.00	ea		Included	$0
	6	Fitness - 4 tier , 12"x18"x60"	9.00	ea		Included	$0
	7	Locking - Padlock hasps for owner provided padlocks	1.00	ls		Included	$0
	8	Digi locks				See Add Alternates	$0
	9	Sloped top and end panels	1.00	ls		Included	$0
	10	Standard colors	1.00	ls		Mix & Match colors/frames not included	$0
	11	Installation	1.00	ls		Included	$0
	12	Cmu locker bases per detail 1/A631				With Masonry	$0
	13	MWBE Participation				Refer to MWBE worksheet	
10 51 00 Total						$96,029	
10 80 00	Misc Specialties						
	1	TV brackets - ceiling, Da-lite	12.00	ea	$551.97	includes unistrut support from struc stl support	$6,624
	2	TV's				By Owner, part of FFE	$0
10 80 00 Total						$6,624	
10 26 13	Misc Specialties						
	3	Stainless steel corner guards - 1 1/2" x 1 1/2" x 8'	40.00	ea	$98.00		$3,920
	4	Install corner guards	40.00	ea	$25.50		$1,020
10 26 13 Total						$4,940	
10 22 33	Operable Wall Partitions						
	1	Operable Partitions				Removed per 2/17/15 meeting	$0
10 22 33 Total						$0	
10 14 70	Environmental Graphics						
	1	GPH 2a-2h & GPH3	1.00	sub	$13,984.00		$13,984
	2	Front desk - perforated film graphic image of Colfax marathon	1.00	ea		Included	$0
	3	Stair tread graphic images	8.00	ea		Included	$0
	4	Installation	1.00	ls		Included	$0
	5	MWBE Participation				Refer to MWBE worksheet	
10 14 70 Total						$13,984	
Division 10 - Specialities Total						*$264,023*	
Division 11 - Equipment							
11 13 00	Loading Dock Equipment						
	1	Loading Dock Equipment				Not Included	$0
11 13 00 Total						$0	
11 40 00	Food Service Equipment						
	1	Catering Kitchen Equipment				Not Included	$0
11 40 00 Total						$0	
11 30 00	Residential Equipment (GE Equipment)						
	1	Admin Offices					$0
	2	Microwave - GE Profile Series 2.2 Cu Ft	1.00	ea	$306.80		$307
	3	Refrigerator - GE Profile 23.3 Cu Ft side by side	3.00	ea	$2,831.72		$8,495
	4	Built-in Dishwasher - GE GLDT696Dss	1.00	ea	$735.92		$736
	5	Washer/Dryer - GE Unitized Spacemaker Model	1.00	ea	$1,243.80		$1,244
	6	Residential Dryer	2.00	ea	$750.00		$1,500
	7	Unload/handle/uncrate/install	8.00	ea	$820.00		$6,560
11 30 00 Total						$18,842	
11 52 00	Projection Screens						
	1	Wall Mounted, Manual, Draper Silhouette Series - 72" x 96"	1.00	ea	$1,150.00		$1,150
	2	Concealed Blocking (Fire Treated)	1.00	ea	$44.00		$44
	3	Projectors				By Owner, part of FFE	$0
11 52 00 Total						$1,194	
11 66 23	Gym Equipment						
	1	Gym Equipment - BOD: Porter Athletic Company	1.00	sub	$53,376.00		$53,376
	2	Basketball backstops - Ceiling suspended side braced with sportsonic controls & electric hoist	6.00	ea		Included	$0
	3	Basketball Backboards & Goals - Pro-Strut rectangular glass with pads and Powr-Flex rims	6.00	ea		Included	$0
	4	Wall Padding - 2' w x 6'h x 2" thk	52.00	ea		Standard colors, no logos or custom included	$0
	5	Gym divider curtain - 67' x 24' h w/electric motor - Installed	1.00	ea		Included	$0
	6	Allowance for netting between gym / cardio				Removed based on design of partial height wall	$0
	7	Volley ball Floor Sleeves w/ Covers - Material	2.00	pr		Included	$0
	8	Volley ball Floor Sleeves w/ Covers - Labor	2.00	pr	$750.00		$1,500
	9	Sleeve box out for second story condition	1.00	ls		Included	$0
	10	Volley Ball Equipment Set				By Owner	$0
	11	Scoreboard with control console BOD: Nevco or approved substitute	1.00	ea		Included	$0
	12	Tip'N'Roll bleachers				Owner Furnished, Owner Installed	$0

Central Denver Recreation Center
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	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
11 66 23	13	Floor protection for installation of gym equipment	4718.00	sf	$0.20		$944
	14	MWBE Participation				Refer to MWBE worksheet	
11 66 23 Total						$55,820	
11 9900	Security Gates						
	1	Turnstile at reception desk	1.00	ls	$4,500.00		$4,500
	2	Installation	1.00	ls			$0
11 9900 Total						$4,500	
Division 11 - Equipment Total						*$80,355*	
Division 12 - Furnishings							
12 60 00	Multiple Seating						
	1	Tip'n'roll alum bleachers at competitive/lap pool/gym				With FF&E	$0
12 60 00 Total						$0	
12 93 00	Site Furnishings						
	1	Forms + Surfaces site furnishings	1.00	sub	$32,830.10		$32,830
	2	Forms + Surfacesfreestanding surface mtd backed bench, titanium finish	9.00	ea		Included	$0
	3	Forms + Surfaces Bicycle rack, stainless steel finish	38.00	ea		Included	$0
	4	Plainwell Litter	6.00	ea	$1,650.00		$9,900
	5	B-Cycle Station				By Owner to relocate	$0
	6	Dog playground agility course				Not Included	$0
	7	Soofa Bench	1.00	ea	$4,188.00		$4,188
	8	Big Belly solar trash receptacle, 50 gal, black, 1 year warranty and software license	6.00	ea	$3,510.28		$21,062
	9	Furnish and install parking meter poles along Josephine street	7.00	ea	$238.49		$1,669
	10	Touch up paint after installation	54.00	ea	$35.00		$1,890
	11	Unload, Handle & Install	54.00	ea	$76.97		$4,156
	12	Shade Shelter at Dog Park				Scope removed from project	$0
12 93 00 Total						$75,696	
12 24 00	Roller Shades						
	1	Mecho shades with thermoveil 1300 series fabric, 5%, with fascia	1.00	ls	$41,267.00		$41,267
	2	Manual operated mecho shades, 5% with Fascia	11.00	ea		Included	$0
	3	Motorized mecho shades, 5% with fascia	24.00	ea		Included	$0
	4	1" aluminum mini blinds	8.00	ea		Included	$0
	5	Low voltage wiring to switches	7.00	ea	$225.00		$1,575
	6	MWBE Participation				Refer to MWBE worksheet	
12 24 00 Total						$42,842	
12 48 43	Floor Mats						
	1	Mannington Recoarse 24"x24" walk off carpet tile	26.00	sy		Included	$0
	2	Installation	1.00	ls		Included	$0
12 48 43 Total						$0	
Division 12 - Furnishings Total						*$118,538*	
Division 14 - Conveying Systems							
14 20 00	Elevators						
	1	BOD - Kone Ecospace 4,000 lb, 5 stop, machine roomless traction elevator	1.00	ea	$132,120.48	Requirements for early deposits apply	$132,120
	2	Layout	12.00	hrs	$38.49	Early payoff for retention applys	$462
	3	Sill angle	5.00	ea	$300.00		$1,500
	4	Pit ladder	1.00	ea		Included	$0
	5	Extended warranty for early use				N/A	$0
	6	Install Overhead hoisting beam	1.00	ea	$153.94		$154
	7	Standard cab finishes	1.00	ls		Included	$0
	8	MWBE Participation				Refer to MWBE worksheet	
14 20 00 Total						$134,236	
Division 14 - Conveying Systems Total						*$134,236*	
Division 21 - Fire Suppression							
21 00 00	Fire Suppression						
	1	Wet-type Fire Protection System	1.00	ls	$191,892.60		$191,893
	2	Dry system at entry canopy	1.00	ls		Included	$0
	3	Design, furnish and install per NFPA 13	1.00	ls		Included	$0
	4	Standpipes, manual in stair cores	1.00	ls		Included	$0
	5	Double-check backflow preventer	1.00	ls		Included	$0
	6	FDC - fire dept connection	1.00	ls		Included	$0
	7	Schedule 10 black piping for 1-1/2" and larger	1.00	ls		Included	$0
	8	Schedule 40 black piping for 1-1/4" and smaller	1.00	ls		Included	$0
	9	Underground to inside the bldg	1.00	ls	$3,500.00	3500	$3,500
	10	Fire sprinkler permit	1.00	ls	$500.00	500	$500
	11	Fire pump, 60hp				Not Included	$0

Adolfson & Peterson Construction

Central Denver Recreation Center

Detailed Cost Estimate and Budget Control Document
Bid Package #2 - GMP

	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
21 00 00	12	Standpipes	1.00	ls		Included	$0
	13	Corrosion resistant, white polyester coated, upright sprinkler heads at natatorium	1.00	ls		Included	$0
	14	Brass upright sprinklers with head guards at exposed ceilings	1.00	ls		Included	$0
	15	Concealed heads, white finish in finished ceiling areas	1.00	ls		Included	$0
	16	Core drills, fire/sound caulking	60868.00	sf	$0.04		$2,435
	17	Seismic analysis or protection				Excluded - Assumed not required	$0
	18	MWBE Participation				Refer to MWBE worksheet	
21 00 00 Total						$198,327	
Division 21 - Fire Suppression Total						*$198,327*	
Division 22 - Plumbing							
22 00 00	Plumbing						
	1	Plumbing	1.00	ls	$937,996.01		$937,996
	2	Reduced pressure, backflow preventer	1.00	ls		Included	$0
	3	Domestic water and condensate piping, type L copper	1.00	ls		Included	$0
	4	Water heaters, high efficiency, natural gas fired	1.00	ls		Included	$0
	5	Below grade piping, PVC, schedule 40	1.00	ls		Included	$0
	6	Piping for waste and vent is cast-iron, with no-hub fittings	1.00	ls		Included	$0
	7	Roof drains and overflow drains	1.00	ls		Included	$0
	8	Gas piping, schedule 40 black steel	1.00	ls		Included	$0
	9	Plumbing fixtures, including piping	1.00	ls		Included	$0
	10	Drinking Fountain at Dog Park				N/A	$0
	11	Pipe insulation as required	1.00	ls		Included	$0
	12	Hose bibs	1.00	ls		Included	$0
	13	Sand / oil interceptor				N/A	$0
	14	Grease interceptor				N/A	$0
	15	Snow Melt				N/A	$0
	16	Core drilling, fire/sound caulking	60868.00	sf	$0.04		$2,435
	17	Underground to inside the bldg	1.00	ls	$3,500.00		$3,500
	18	LEED Coordination	128.00	hrs	$75.00		$9,600
	19	MEP Coordination	237.00	hrs	$75.00		$17,775
	20	Test & Balance	1.00	ls		Included	$0
	21	Mechanical permits and fees	1.00	ls		Included	$0
	22	Trench drains at pool deck	1.00	ls		Included	$0
	23	3D Coordination Drawings	1.00	ls		Included	$0
	24	Cathodic protection				Not Included	$0
	25	Seismic protection				Not Included	$0
	26	Concrete encasement of underground piping				Not Included	$0
	27	MWBE Participation				Refer to MWBE worksheet	
22 00 00 Total						$971,306	
Division 22 - Plumbing Total						*$971,306*	
Divsision 23 - HVAC							
23 00 00	Heating, Ventilating and Air Conditioning						
	8	BP#2 - HVAC Rec Center				Below	$0
	9	HVAC Air System	1.00	ls	$1,519,115.10		$1,519,115
	10	Fire/smoke dampers as required	1.00	ls		Included	$0
	11	Exposed ductwork to be spiral, grip-lock primer	1.00	ls		Included	$0
	12	Insulation as needed	1.00	ls		Included	$0
	13	Temperature Controls, DDC	1.00	ls	$187,497.91		$187,498
	14	LEED Coordination	142.00	hrs	$75.00		$10,650
	15	MEP Coordination	264.00	hrs	$75.00		$19,800
	16	Test & Balance	1.00	ls		Included	$0
	17	Core drilling, fire/sound caulking	60868.00	sf	$0.04		$2,435
	18	Mechanical permits and fees	1.00	ls		Included	$0
	19	PDU, Pool Dehumidification Unit, roof mounted	1.00	ls		Included	$0
	20	UH, unit heaters for pool mech	1.00	ls		Included	$0
	21	Exhaust fans	1.00	ls		Included	$0
	22	Ductwork in Natatorium, Aluminum	1.00	ls		Included	$0
	23	Galvanized ductwork throughout, except as noted	1.00	ls		Included	$0
	24	Aluminum R/A louvers	1.00	ls		Included	$0
	25	Big Ass Fans in Natatorium as destratafication	4.00	ea		Included	$0
	26	Chemical room exhaust, pvc pipe as duct, corrosion resistant	1.00	ls		Included	$0
	27	Solar Thermal System 60 evac tube panels w/equipment				Not Included	$0
	28	RTU's Packaged, DX cooling, gas-fired heating	1.00	ls		Included	$0
	29	Reheat - hot-gas reheat coils for humidity control	1.00	ls		Included	$0
	30	VAV's - variable air vaolume terminals (electric coils)	1.00	ls		Included	$0
	31	Split System AC units	2.00	ea		Included	$0
	32	3D Coordination Drawings	1.00	ls		Included	$0
	33	Filter changes to units after building flush out	1.00	ls		Included	$0
	34	Duct cleaning				Not Included	$0
	35	Seismic protection				Not Included	$0
	36	Concrete encasement of underground duct				Not Included	$0
	37	MWBE Participation				Refer to MWBE worksheet	
23 00 00 Total						$1,739,498	

Central Denver Recreation Center
Detailed Cost Estimate and Budget Control Document
Bid Package #2 - GMP

Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
Divsision 23 - HVAC Total					*$1,739,498*	
Division 26 - Electrical						
26 00 00	Electrical					
1	Electrical	1.00	sub	$1,445,560.00		$1,445,560
2	Site Electrical	1.00	ls		Below	$0
3	Parking lot lighting - LED light poles at parking lots	1.00	ls		Included	$0
4	Pedestrian lighting - LED bollards	1.00	ls		Included	$0
5	Site Light Pole Bases	22.00	ea	$750.00		$16,500
6	Power & lighting to site monument sign	1.00	ea		Included	$0
7	Power to irrigation controller	2.00	ea	$1,200.00		$2,400
8	Service & Equipment	1.00	ls		Below	$0
9	Main service, 1500 KVA transformer	1.00	ls		Included	$0
10	Copper feeders				Includes Aluminum Feeders provided over 100 amps	$0
11	Emergency generator and ATS				Not Included	$0
12	Building Lighting	1.00	ls		Below	$0
13	Lighting Systems	1.00	ls		Alternate fixture package per ASI 1 luminiere schedule	$0
14	Branch power for Light Fixtures	1.00	ls		Included	$0
15	Power for underwater pool lights (lights furnished with pools)	8.00	ea		Included	$0
16	Lighting, fixtures to meet energy code	1.00	ls		Included	$0
17	Lighting controls	1.00	ls		Included	$0
18	Building Power	1.00	ls		Below	$0
19	Interior building power	1.00	ls		Included	$0
20	Receptacles per typical rec center, GFI's per code	1.00	ls		Included	$0
21	Power to hand and hair dryers	1.00	ls		Included	$0
22	Power to auto water valves	1.00	ls		Included	$0
23	Power to Mechanical and Pool Equipment	1.00	ls		Included	$0
24	Starters and VFD's for pumps and equipment				w/ Pool	$0
25	Temp lighting, power	1.00	ls		Included	$0
26	Core drilling, fire/sound caulking	60868.00	sf	$0.04		$2,435
27	Fire Alarm System	1.00	sub	$118,088.00		$118,088
28	Addressable voice evacuation	1.00	ls		Included	$0
29	Conduit system for all fire alarm system	1.00	ls		Conduit for entire fire alarm system	$0
30	Two way communication	1.00	ls		Included	$0
31	Rough-in for tele/data, security, a/v, access control	1.00	ls		Included	$0
32	Elec permits	1.00	ls		Included	$0
33	Lightning protection system	1.00	sub	$48,711.30		$48,711
34	Pool bonding and grounding	1.00	ls		Included	$0
35	Interlocking pool equipment	1.00	ls		Included	$0
36	Power to Fire Pump				Not Included - assumed not required	$0
37	LEED Coordination	130.00	hrs	$75.00		$9,750
38	EMON / DEMON for Commissioning	1.00	ls	$5,000.00		$5,000
39	MEP Coordination	160.00	hrs	$75.00		$12,000
40	City & County taxes	1.00	ls		Included	$0
41	MWBE Participation				Refer to MWBE worksheet	
26 00 00 Total					$1,660,444	
Division 26 - Electrical Total					*$1,660,444*	
Division 27 - Communications						
27 41 00	Audio-Video System					
1	Raceways and Cabling for AV Systems	1.00	sub	$46,726.20		$46,726
2	Flex Classroom #104				Below	$0
3	Presentation controller to control room A/V projection, ceiling mounted	1.00	ls		Included	$0
4	Projector, ceiling mounted and support kit	1.00	ls		Included	$0
5	Lockable AV cabinet	1.00	ls		Included	$0
6	Blu-ray player with wired network connection and HDMI output	1.00	ls		Included	$0
7	A/V controller/switcher/scaler/amplifier	1.00	ls		Included	$0
8	Speakers, lay-in ceiling	1.00	ls		Included	$0
9	Wireless microphone receiver, pendant wireless mic, hand held mic & charging station	1.00	ls		Included	$0
10	Wall mounted digital A/V inputs	1.00	ls		Included	$0
11	Fitnes Studio #201 and Group Exercise #M02 Audio				Below	$0
12	Lockable AV cabinet	1.00	ls		Included	$0
13	Wireless microphone receiver, bodypack transmitter and waterproof headset	1.00	ls		Included	$0
14	Wall mounted speakers	1.00	ls		Included	$0
15	CD/MP3 player with wireless bluetooth receiver	1.00	ls		Not Mentioned in SD Narrative	$0
16	Rack mounted audio source and microphone mixer	1.00	ls		Included	$0
17	Sound System - Aquatics				Moved to FF&E per 2/27 accepted price option	$0
18	Sound System - Weight/Cardio				Moved to FF&E per 2/27 accepted price option	$0
27 41 00 Total					$46,726	
27 51 00	Distributed AV systems					
1	Paging / PA System				Not Included	$0

Central Denver Recreation Center
Detailed Cost Estimate and Budget Control Document
Bid Package #2 - GMP

	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
27 51 00 Total						$0	
27 53 13	Clock & Paging Systems						
	1	Wireless Clock System & Paging System	1.00	ls	$67,493.40		$67,493
	2	Clocks, battery operated as noted	1.00	ls		Included	$0
	3	Paging system, speakers, amplifiers, and head-end equipment	1.00	ls		Included	$0
	4	Licensing of paging system				By Owner	$0
	5	Supply & install Kronos time clock				By Owner	$0
27 53 13 Total						$67,493	
27 10 00	Structured Cabling						
	1	Tele/Data Cabling	1.00	sub	$162,880.00		$162,880
	2	Cat 6, plenum rated cabling	1.00	ls		Included	$0
	3	RG-6 coax cabling	1.00	ls		Included	$0
	4	Jacks and faceplates	1.00	ls		Included	$0
	5	Racks in Telecomm Room	1.00	ls		Included	$0
	6	Tele/Data Cabling per plan	1.00	ls		Included	$0
	7	User-end connections and testing	1.00	ls		Included	$0
	8	Server-side connections and testing				By Owner	$0
	9	Supply and install of patch cables				By Owner	$0
	10	Supply of routers, WAP's/Licenses for WAP's				By Owner	$0
	11	Installation of WAP's	1.00	ls		Included	$0
	12	Installation of Routers				By Owner	$0
	13	Century Link - install cabling and conduit from bldg to pedestal	1.00	ls		Included	$0
	14	Traffic Fiber - Provide conduit from vault in RPW to Comm Rm, install fiber	1.00	ls		Included	$0
	15	Furnish fiber optic cabling				By Owner	$0
	16	Comcast - install cabling and conduit to pedestal onsite	1.00	ls		Included	$0
27 10 00 Total						$162,880	
27 53 19	Distributed Antenna System (Emergency)						
	1	800 MHz Public Safety Radio Amplification System	1.00	ls	$53,139.60		$53,140
	2	Distributed Antenna Sys for AT&T or Verizon cell services				Not Included	$0
27 53 19 Total						$53,140	
Division 27 - Communications Total						*$330,239*	
Division 28 - Electronic Safety and Security							
28 13 00	Electronic Access Control						
	1	Card Access system	1.00	sub	$10,689.00	See price options list for deduct of Access Control Sys	$10,689
28 13 00 Total						$10,689	
28 16 00	Intrusion Detection						
	1	Intrusion detection system for building perimeter, doors, windows	1.00	ls	$34,510.20		$34,510
	2	Cabling, devices and head-end equipment	1.00	ls		Included	$0
	3	Motion detectors, door position contacts	1.00	ls		Included	$0
28 16 00 Total						$34,510	
28 20 00	Electronic Surveillance						
	1	Electronic Surveillance system	1.00	ls	$96,162.00		$96,162
	2	Cameras, 32 indoor, 22 outdoor	54.00	ea		Included	$0
	3	Camera's installed, aimed and focused by contractor	1.00	ls		Included	$0
	4	Network cabling, patch panels, UPS & racks				With Structured Cabling	$0
	5	Video recording servers, software and POE switch				Owner to Purchase and configure system	$0
	6	Supply of camera licenses				By Owner	$0
	7	Supply and installation of servers				By Owner	$0
28 20 00 Total						$96,162	
28 30 00	Electronic Detection and Alarm						
	1	Fire Detection and Alarm				w/Division 26 - Electrical	$0
28 30 00 Total						$0	
Division 28 - Electronic Safety and Security Total						*$141,361*	
31							
31 32 13	Lime Soil Stabilization						
	1	Lime Stabilization				Not Included	$0
31 32 13 Total						$0	
31 Total						*$0*	
32							
32 12 16	Asphalt Paving						
	1	Asphalt Paving	1.00	sub	$100,319.14		$100,319
	2	Asphalt Paving - 6" full depth	1419.00	sy		Included	$0

Central Denver Recreation Center

Detailed Cost Estimate and Budget Control Document

Bid Package #2 - GMP

	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
32 12 16	3	Asphalt Paving - 6.5" full depth	1395.00	sy		Included	$0
	4	Scarify 12" & recompact, fine grade	2814.00	sy		Included	$0
	5	Herbicide treatment	2814.00	sy		Included	$0
	6	11" ROW Patch	261.00	sy		Included	$0
	7	Utility patching - 11" Full depth				W/ Utilities	$0
	8	Minor subgrade corrections prior to paving 2%	0.02	%	$100,319.14		$2,006
	9	Clean parking lot prior to turn over	2814.00	sy	$0.10		$281
	10	Final adjustment to water/sewer valves in asphalt	4.00	ea	$150.00		$600
	11	Traffic control for paving	2.00	wk	$1,700.00		$3,400
	12	MWBE Participation				Refer to MWBE worksheet	
32 12 16 Total						$106,607	
32 13 13	Concrete Paving						
	1	Prep, place and finish for the following work	1.00	sub	$610,331.68		$610,332
	2	Employee concrete parking lot (6") - labor	9089.00	sf		Included	$0
	3	Employee concrete parking lot (6")- material	185.15	cy		Included	$0
	4	Sawcut control joints	1731.24	lf		Included	$0
	5	ROW Sidewalks (6") - labor	14064.00	sf		Included	$0
	6	ROW Sidewalks (6") - material	286.49	cy		Included	$0
	7	Plaza pavement (6") - labor	26118.00	sf		Included	$0
	8	Plaza pavement (6") - material	532.03	cy		Included	$0
	9	Fibermesh for (6") paving	1003.67	cy		Included	$0
	10	Additives for site concrete	1003.67	cy		Included	$0
	11	CIP site ramp slab 8" labor	1314.00	sf		Included	$0
	12	CIP site stair treads labor	338.00	lf		Included	$0
	13	Concrete Material	61.66	cy		Included	$0
	14	CIP stair reinforcement	7.71	tons		Included	$0
	15	Curb & gutter (2' Pan) - labor	2240.00	lf		Included	$0
	16	Curb & gutter (2' Pan) - material	136.89	cy		Included	$0
	17	Clean backfill dirt off of the curb and gutter	2240.00	lf		Included	$0
	18	Parking lot valley pans (2' width) - labor	201.50	lf		Included	$0
	19	Parking lot valley pans (2' width) - material	11.00	cy		Included	$0
	20	6" concrete curb at landscape areas - labor	1612.00	lf		Included	$0
	21	6" concrete curb at landscape areas - material	49.26	cy		Included	$0
	22	6" concrete curb rebar - material	1.08	tons		Included	$0
	23	12" mowband at dog park fence - labor	183.00	lf		Included	$0
	24	12" mow band - material	7.78	cy		Included	$0
	25	10" thk concrete site walls & ftgs at rain garden areas	1.00	ls		Included	$0
	26	Concrete Material	214.50	cy		Included	$0
	27	Reinforcing steel material for rain gardens	26.81	tons		Included	$0
	28	French drain at retaining wall				Not Included	$0
	29	Handicap Ramps (6") - labor	7.00	ea		Included	$0
	30	Handicap Ramps (6") - colored material	7.00	cy		Included	$0
	31	Sidewalk chase/drain channel/trench drain - labor	115.00	lf		Included	$0
	32	Sidewalk chase/drain channel/trench drain - material	8.00	cy		Included	$0
	33	Light pole bases - labor & material	6.00	ea		Included	$0
	34	Rebar for site flatwork - labor	6.00	tn		Included	$0
	35	Rebar for site flatwork - material	2.00	tn		Included	$0
	36	Curing compound, exp. jts mtl., accessories	51511.00	sf		Included	$0
	37	Sweep/clean sitework prior to turnover	5474.56	sy		Included	$0
	38	Additives for site concrete	954.82	cy		Included	$0
	39	Trash/Utility - ftgs & stem wall (A750)	125.00	lf		Included	$0
	40	Trash/Util - Conc Pad - 6"th	465.00	sf		Included	$0
	41	Concrete material for trash/util enclosure	56.40	cy		Included	$0
	42	Reinforcing steel material for trash/util enclosure	7.05	tons		Included	$0
	43	Unload, material movement, sweeping				Included	$0
	44	Sandblast existing concrete wall	654.00	sf	$2.25		$1,472
	45	Stamped concrete				Not Anticipated at this time	$0
	46	Stamped concrete (4") - colored material				Not Anticipated at this time	$0
	47	MWBE Participation				Refer to MWBE Projections	$0
32 13 13 Total						$611,803	
32 17 23	Pavement Markings						
	1	Pavement Markings	1.00	sub	$5,057.08		$5,057
	2	Parking stalls	124.00	ea		Included	$0
	3	Handicap symbols	4.00	ea		Included	$0
	4	No Parking striping	1180.00	sf		Included	$0
	5	Cross walks	1920.00	sf		Included	$0
	6	Grind off striping at Joshepine street and epoxy paint new lines	1.00	ls	$5,000.00		$5,000
	7	Traffic control for striping	1.00	ls		Included	$0
32 17 23 Total						$10,057	
32 31 00	Fences and Gates						
	1	Fences and Gates	1.00	sub	$51,007.00		$51,007
	2	4' ornamental fence, Omega Elite or similar, around dog park	451.00	lf		Included	$0
	3	4' black vinyl chainlink fence at east high school parking lot	155.00	lf		Included	$0
	4	6' black vinyl chainlink fence at east high school parking lot	37.00	lf		Included	$0
	5	Core drills for fence on existing concrete wall	25.00	ea	$37.83		$946

Central Denver Recreation Center

Detailed Cost Estimate and Budget Control Document

Bid Package #2 - GMP

	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
32 31 00	6	Garden fence at north property line	93.00	lf		Included	$0
	7	Fencing at table tennis area				Not Included - See Alternates	$0
	8	MWBE Participation				Refer to MWBE worksheet	
32 31 00 Total						$51,953	
32 32 00	Retaining Walls						
	1	Retaining Walls - Block with cap					$0
32 32 00 Total						$0	
32 90 00	Planting						
	1	Planting and Irrigation	1.00	sub	$324,965.00		$324,965
	2	Topsoil				With Earthwork	$0
	3	Sleeving for irrigation 4"	482.00	lf		Included	$0
	4	Deciduous and evergreen shrub planting areas	2078.00	ea		Included	$0
	5	Deciduous, ornamental and evergreen trees	61.00	ea		Included	$0
	6	Crusher fines at parking lot tree planters	1026.00	sf		Included	$0
	7	Boulders	10.00	ea		Included	$0
	8	Protect existing trees	4.00	ea	$50.00		$200
	9	Irrigated wetland seed/plugs @ water quality porous landscape areas	6056.00	sf		Included	$0
	10	Irrigated sod - north tree lawn and plaza	3532.00	sf		Included	$0
	11	2 year warranty and maintenance on plantings	1.00	ls		Included	$0
	12	Traffic control	1.00	ls	$1,000.00		$1,000
	13	Site south and east high school amenities				Not Included - See Alternates	$0
	14	MWBE Participation				Refer to MWBE worksheet	
32 90 00 Total						$326,165	
32 15 40	Crushed Stone Surfacing						
	1	Infield mix at dog park, 4" thk				With Landscaping	$0
32 15 40 Total						$0	
32 Total						*$1,106,585*	
25							
25 00 00	Integrated Automation						
	1	Temperature Controls w/ HVAC Above					$0
25 00 00 Total						$0	
25 Total						*$0*	
Grand Total							$19,507,535

Sullivan Gateway
90CD GMP Estimate
Clarifications and Assumptions

SUMMARY OF WORK

- This GMP estimate for the Sullivan Gateway Phase 1 project will include the replacement of the east and west fountains, rehabilitation of the terra-cotta wall adjacent to the fountains, mechanical and electrical work for operating fountains limited to the design in the 90CD drawings dated 8/14/2015. It is anticipated that work will start in January of 2016 with construction starting in April of 2016, and work will be completed in August of 2016.
- This estimate is based on the drawings and specifications dated 8/14/2015.

CLARIFICATIONS AND ASSUMPTIONS

GENERAL CLARIFICATIONS

- (2) separate contingencies have been included in the estimate:
  - Bidding Contingency - 2% - This contingency is included to cover estimating innaccuracies. It is anticipated that this contingency will be reduced to 0% at the time signed subcontract agreements are returned by the subcontractors to AP Mountain States, LLC for the scope of work.
  - Construction Contingency – Defined in the contract.

- This is an estimate for the cost of construction, no land fees, architectural or engineering fees, legal fees, land development fees, tap fees, etc. have been included.
- Sales tax of 3.65% is included for the City's consumer use sales tax.
- Prevailing wage rates are included per the City's requirements. We assume the same wage rates used for the Central Denver Recreation Center project apply.
- It is assumed all work will be completed during a standard 40-hour work week. No allowance for overtime or off-hours work has been included.
- Right-of-Way Permit or Closure fees are not included. The City's represented informed AP that these fees will not be required. AP and subcontractors anticipate applying for ROW permits and closures, however associated fees are not included.

SITE WORK

Sullivan Gateway

90CD GMP Estimate

Clarifications and Assumptions

- The GMP estimate includes trenching for underground conduits and piping. We anticipate cutting, removing and replacing existing landscaping, site concrete and asphalt. Directional boring may be an additional cost.

- The multi-flow drain, grading and drainage, irrigation repairs, irrigation and planting (other than patching) is not included in Phase 1. We anticipate this work as part of future phases.
- Relocation of irrigation sprinklers and sta-lok paving is included directly adjacent to the east and west fountains in phase 1 only.
- Maintenance of irrigation and landscaping is not included in Phase 1. The only landscaping we anticipate is replacement of sod as needed for excavations and trenches.
- GMP Estimate includes 32 hrs of cleaning and pruning around east and west fountains. Removal of grass and trimming trees, shrubs, weeds or plantings along the entire project is not included. The estimate includes removal of grass for excavation and trenching required as part of Phase 1 only.

TERRA COTTA / WALL REHABILITATION

- Rehabilitation of terra cotta or masonry walls other than walls directly adjacent to the east and west fountains are not included as part of Phase 1.
- Water repellents and graffiti control coatings are not included as part of Phase 1. We anticipate these coatings to affect the appearance of the terra-cotta, masonry and concrete and anticipate that the City prefers the coating applied to all portions of the walls at completion of the entire project Phase 1, 2, & 3.

ITEMS BY OTHERS

- All independent testing and inspections, including commissioning.
- All tap fees associated with utilities will be paid for by the owner (water, electric, gas).
- Costs of water usage by the fountains for fountain related work will be paid directly to by the Owner to the utility company.
- Any expenses associated with dry utilities and getting them to the site (cable, fiber, power and gas).
- Removal of hazardous materials, including asbestos and lead abatement.
- All moving costs.
- All artwork - purchasing, moving, and installation.
- Land Costs
- Legal Fees
- Architectural and Engineering Fees
- Geotechnical Investigation and Engineering Fees
- Owner contingency

Adolfson & Peterson Construction

797 Ventura Street, Aurora, CO 80011

Project:	Sullivan Gateway	Date:	01/07/16
Owner:	City & County of Denver	Estimator:	Cole Mayer
Architect:	Anderson Hallas Architects, PC	Project SF:	N/A
		Duration in Months:	8.00
		PH1 Estimate #:	90CD GMP Estimate

Project Summary Sheet - Estimated Cost of the Work

		Phase One		
Division #0	Procurement and Contracting Requirements	$165,584		18.7% of Direct Costs
Division #1	General Requirements	$6,656		0.5% of Direct Costs
Division #2	Existing Conditions	$3,530		0.4% of Direct Costs
Division #3	Concrete	$14,541		0.6% of Direct Costs
Division #4	Masonry	$288,432		53.5% of Direct Costs
Division #5	Metals	$0		0.5% of Direct Costs
Division #6	Wood, Plastics, and Composites	$0		0.0% of Direct Costs
Division #7	Thermal and Moisture Protection	$31,063		1.7% of Direct Costs
Division #8	Openings	$0		0.0% of Direct Costs
Division #9	Finishes	$0		0.0% of Direct Costs
Division #10	Specialties	$0		0.0% of Direct Costs
Division #11	Equipment	$0		0.0% of Direct Costs
Division #12	Furnishings	$0		0.0% of Direct Costs
Division #13	Special Construction	$0		0.0% of Direct Costs
Division #14	Conveying Equipment	$0		0.0% of Direct Costs
Division #21	Fire Suppression	$0		0.0% of Direct Costs
Division #22	Plumbing	$206,160		7.9% of Direct Costs
Division #23	Heating, Ventilating and Air Conditioning	$0		0.0% of Direct Costs
Division #25	Integrated Automation	$0		0.0% of Direct Costs
Division #26	Electrical	$44,600		2.1% of Direct Costs
Division #27	Communications	$0		0.0% of Direct Costs
Division #28	Electonic Safety and Security	$0		0.0% of Direct Costs
Division #31	Earthwork	$30,524		3.6% of Direct Costs
Division #32	Exterior Improvements	$20,756		9.0% of Direct Costs
Division #33	Utilities	$0		1.6% of Direct Costs
	Subtotal	$811,846		100.0% of Direct Cost
	Utility Tap & Development Fees	By Owner		
	Permit Allowance	By Owner		0.00% of Project
	Use Tax	N/A		0.00% of Project
	Bidding Contingency	$16,237		2.00% of Subtotal
	Escalation Allowance	Not Included		2.00% of Subtotal
	Construction Contingency	$16,562		2.00% of Subtotal
	Builders Risk Insurance	$2,365		
	Comprehensive General Liability Insurance	$9,148		
	Performance, Labor & Material Bond	$6,678		
	General Contractors Fee	$53,064		
	Preconstruction Services			

Estimated Cost of Construction

90CD GMP Estimate **$915,900**

Alternates:

Alternate #1 Phase 1 Flashing Detail 3,051

Sullivan Gateway

Detailed Cost Estimate and Budget Control Document

	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
Division 0 - General Conditions							
00 72 00	**AIA General Conditions**						
	PH1						
	1	General conditions of the contract - Phase 1	8.00	mth	$20,698.00		$165,584
	ALL						
	4	Public services and development fees				Not Included - See Summary	$0
00 72 00 Total						**$165,584**	
Division 0 - General Conditions Total						***$165,584***	
Division 01 - General Requirements							
01 14 00	**Work Restrictions**						
	ALL						
	1	Off-hours work				Not Included	$0
	2	Site access requirements - offsite staging				Not Included	$0
01 14 00 Total						**$0**	
01 33 00	**Submittals**						
	ALL						
	1	Delivery costs / messenger services				w/ GC's	$0
	2	Reproduction costs				w/ GC's	$0
01 33 00 Total						**$0**	
01 45 00	**Quality Control**						
	ALL						
	1	Independent testing				By Owner	$0
	2	Soil compaction tests				By Owner	$0
	3	Concrete tests				By Owner	$0
	4	Steel weld test / inspections				By Owner	$0
01 45 00 Total						**$0**	
01 51 00	**Temporary Facilities**						
	PH1						
	6	Temporary electricity	5.00	mth	$250.00		$1,250
	8	Temporary water	5.00	mth	$150.00		$750
	9	Dumpsters - Phase 1	8.00	ea	$450.00		$3,600
	ALL						
	1	Hoists					$0
	2	Const. aids and misc. services				w/ GC's	$0
	3	Barricades and warning lights				N/A	$0
	4	Environmental protection				By Trade / Division	$0
	5	Additional A&P cost if commissioning				By Owner	$0
	7	Temporary lighting				By Trade / Division	$0
01 51 00 Total						**$5,600**	
01 74 00	**Cleaning**						
	PH1						
	3	Cleaning and pruning around walls	32.00	hrs	$33.00		$1,056
	ALL						
	1	Final clean site				With GC's	$0
	2	Final clean building				With GC's	$0
01 74 00 Total						**$1,056**	
01 54 00	**Construction Aids**						
	ALL						
	1	Temporary hoists				By Trade	$0
	2	Temporary cranes				By Trade	$0
	3	Temporary scaffolding and platforms				By Trade	$0
01 54 00 Total						**$0**	
Division 01 - General Requirements Total						***$6,656***	
Division 2 - Existing Conditions							
02 21 00	**Surveys**						
	PH1						
	1	Surveying - Phase 1	1.00	ls			$0
	2	Staking for fountain concrete work	2.00	ea	$260.00		$520
	3	Staking for vaults	2.00	ea	$130.00		$260
	4	Layout of demolition area	20.00	hrs	$65.00		$1,300
	5	Layout for underground conduit and piping for trenching	10.00	hrs	$65.00		$650
	6	Total Station Rental	1.00	mth	$800.00		$800
02 21 00 Total						**$3,530**	
Division 2 - Existing Conditions Total						***$3,530***	
Division 03 - Concrete							

Adolfson & Peterson Construction

Sullivan Gateway

Detailed Cost Estimate and Budget Control Document

	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
03 30 00	**Cast-In-Place Concrete**						
	PH1						
	1	Phase 1:				Phase 1	$0
	2	Form, Pour and Finish	1.00	sub	$5,125.00		$5,125
	3	Fountain Concrete (per detail 5/A1.2)	2.00	ea		Included	$0
	4	New footing adjacent to existing wall	5.75	cy		Included	$0
	5	New mat and slab	2.30	cy		Included	$0
	6	New mat footing at south end of fountain	4.60	cy		Included	$0
	7	Concrete material	12.65	cy	$131.12		$1,659
	8	Concrete additives, shortload fees, etc.	12.65	cy	$12.00		$152
	9	Pumping	2.00	days	$1,800.00		$3,600
	10	Rebar reinforcement - Material	1.27	tons	$1,111.65		$1,406
	11	Rebar reinforcement - Labor	1.27	tons		Included	$0
	12	WWF	391.50	sf	$0.48		$188
	13	Continuous waterstop gaskets	70.00	lf	$10.00		$700
	14	#4 x 2'-0" Dwoels w/ Epoxy Adhesive	26.00	ea	$60.00		$1,560
	15	Aggregate sub-base				Included w/ Earthwork	$0
	16	Prepared sub-base				Included w/ Earthwork	$0
		Misc. concrete accessories (cure, expansion joints, etc.)	12.65	cy	$12.00		$152
03 30 00 Total						**$14,541**	
Division 03 - Concrete Total						***$14,541***	
Division 04 - Masonry							
04 20 00	**Unit Masonry**						
	PH1						
	1	Phase 1:				Phase 1	$0
	2	Restore terra cotta walls	1.00	sub	$241,337.28		$241,337
	3	Rebuild Fountain Wall Procedure (2 locations east and west)	1.00	ls		Included	$0
	4	Clean and remove paint from all terra-cotta surfaces				Not Included	$0
	5	Tear down and rebuild each fountain/lion section of wall, both sides, replace missing and broken pieces	1.00	ls		Included	$0
	6	Retore lions, repair chipped and fractured pieces	1.00	ls		Included	$0
	7	Cut out all mortar joints	1.00	ls		Included	$0
	8	Remove all remaining wall caps and column cap pieces, replace missing pieces with new and reinstall caps	1.00	ls		Included	$0
	9	Refinish/patch surface spalls and chips	1.00	ls		Included	$0
	10	Re-glaze surface pieces that are patched or missing their existing glaze	1.00	ls		Included	$0
	11	Re-point the wall solid	1.00	ls		Included	$0
	12	Repair brick substrate wall	1.00	ls		Included	$0
	13	Include 30% of wall typical including resetting and repointing top 3 courses and top where wall widens	1.00	ls		Included	$0
	14	Salvage existing anchors for reuse	1.00	ls		Included	$0
	15	Assume 10% of anchors to be replaced with new stainless steel	1.00	ls		Included	$0
	16	Include select brick/joint removal and repair to allow install of new anchors	1.00	ls		Included	$0
	17	Additional cap pieces that are not included in the 90% drawings. Coping pier caps, center piece wall caps, bracket caps	1.00	ls	$47,094.65		$47,095
04 20 00 Total						**$288,432**	
Division 04 - Masonry Total						***$288,432***	
Division 7 - Thermal and Moisture Protection							
07 60 00	**Flashing & Sheet Metal**						
	PH1						
	1	Phase 1:				See Pricing Options Sheet	$0
	2	Sub Flashing Quote				See Pricing Options Sheet	$0
	3	Alternate 1 (per detail 5/A1.4)				See Pricing Options Sheet	$0
07 60 00 Total						**$0**	
07 19 16	**Water Repellent Coating**						
	PH1						
	1	Phase 1:					$0
	2	Silcone elastomer applied to all terra cotta and synthetic terra cotta exposed concrete foundation (fountain)	2144.00	sf/allow	$1.75		$3,752
07 19 16 Total						**$3,752**	
07 92 13	**Caulking & Sealants**						
	PH1						
	1	Phase 1:				Included w/ Terra Cotta Scope	$0
	2	Exterior sealants				Included w/ Terra Cotta Scope	$0
	3	Joint fillers				Included w/ Terra Cotta Scope	$0
	4	Bond breaker tape				Included w/ Terra Cotta Scope	$0
07 92 13 Total						**$0**	

Sullivan Gateway

Detailed Cost Estimate and Budget Control Document

	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
07 14 00	**Fluid Applied Waterproofing**						
	PH1						
	1	Phase 1:					$0
	2	Sub Waterproofing Quote					$0
	3	Cold fluid applied waterproofing at (2) new vault locations	1.00	ls	$5,263.20		$5,263
07 14 00 Total						**$5,263**	
07 52 00	**High Strength Stucco with Waterproof Coating**						
	PH1						
	1	Phase 1:					$0
	2	Sub Fountain Waterproofing Quote	1.00	sub	$22,047.30		$22,047
	3	Stucco at new fountain (west)	1.00	ea		Included	$0
	4	Stucco at new fountain (east)	1.00	ea		Included	$0
07 52 00 Total						**$22,047**	
Division 7 - Thermal and Moisture Protection Total						***$31,063***	
Division 22 - Plumbing							
22 00 00	**Plumbing**						
	PH1						
	1	Phase 1:				Phase 1	$0
	2	Plumbing	1.00	sub	$205,260.00		$205,260
	3	Excavation for vaults and piping	1.00	ls		Included	$0
	4	Boring under street	1.00	ls		Included	$0
	5	120" x 120" x 96" Concrete vault below grade w/ 36" x 36" locking steel access cover	2.00	ea		Included	$0
	6	Equipment typical of both vaults	1.00	ea		Included	$0
	7	Circulating pump	2.00	ea		Included	$0
	8	Filter pump	2.00	ea		Included	$0
	9	Water holding tank	2.00	ea		Included	$0
	10	Water level controller system	2.00	ea		Included	$0
	11	Balancing valve	2.00	ea		Included	$0
	12	Pressure reducing valve	2.00	ea		Included	$0
	13	Solenoid valve	2.00	ea		Included	$0
	14	Drain valve	2.00	ea		Included	$0
	15	Sump pump	2.00	ea		Included	$0
	16	Floor mounted pipe support	1.00	ls		Included	$0
	17	3/4" copper CW type k pipe	1.00	ls		Included	$0
	18	Pipe insulation	1.00	ls		Included	$0
	19	Hangers and supports	1.00	ls		Included	$0
	20	Piping identification	1.00	ls		Included	$0
	21	Filters and feeders	1.00	ls		Included	$0
	22	Vent through the roof	1.00	ls		Included	$0
	23	Cleanouts	1.00	ls		Included	$0
	24	Pressure gauges	1.00	ls		Included	$0
	25	Access panel on backside of west fountain	1.00	ls		Included	$0
	26	Access panel on backside of east fountain	1.00	ls		Included	$0
	27	Concrete housekeeping pads	150.00	sf	$6.00		$900
	28	Test & Balance	1.00	ls		Included	$0
	29	Mechanical permits and fees	1.00	ls		Included	$0
22 00 00 Total						**$206,160**	
Division 22 - Plumbing Total						***$206,160***	
Divsision 23 - HVAC							
23 00 00	**Heating, Ventilating and Air Conditioning**						
	PH1						
	1	Phase 1:				Included in Plumbing Quote	$0
	2	Mechanical				Included in Plumbing Quote	$0
	3	(2) Electrical unit heater (in vaults)				Included in Plumbing Quote	$0
	4	(2) Ventilation fan (in vaults)				Included in Plumbing Quote	$0
23 00 00 Total						**$0**	
Divsision 23 - HVAC Total						***$0***	
Division 26 - Electrical							
26 00 00	**Electrical**						
	PH1						
	1	Phase 1:				Phase 1	$0
	2	Electrical	1.00	sub	$39,600.20		$39,600
	3	Power to West Vault (per E1.0)	1.00	ls		Included	$0
	4	New electrical panel "A"	1.00	ls		Included	$0
	5	New Xcel meter	1.00	ls		Included	$0
	6	New main disconnect switch	1.00	ls		Included	$0
	7	New fixture type "A" (see fixture schedule)	1.00	ls		Included	$0
	8	Power to East Vault	1.00	ls		Included	$0
	9	New electrical panel "C"	1.00	ls		Included	$0

Sullivan Gateway

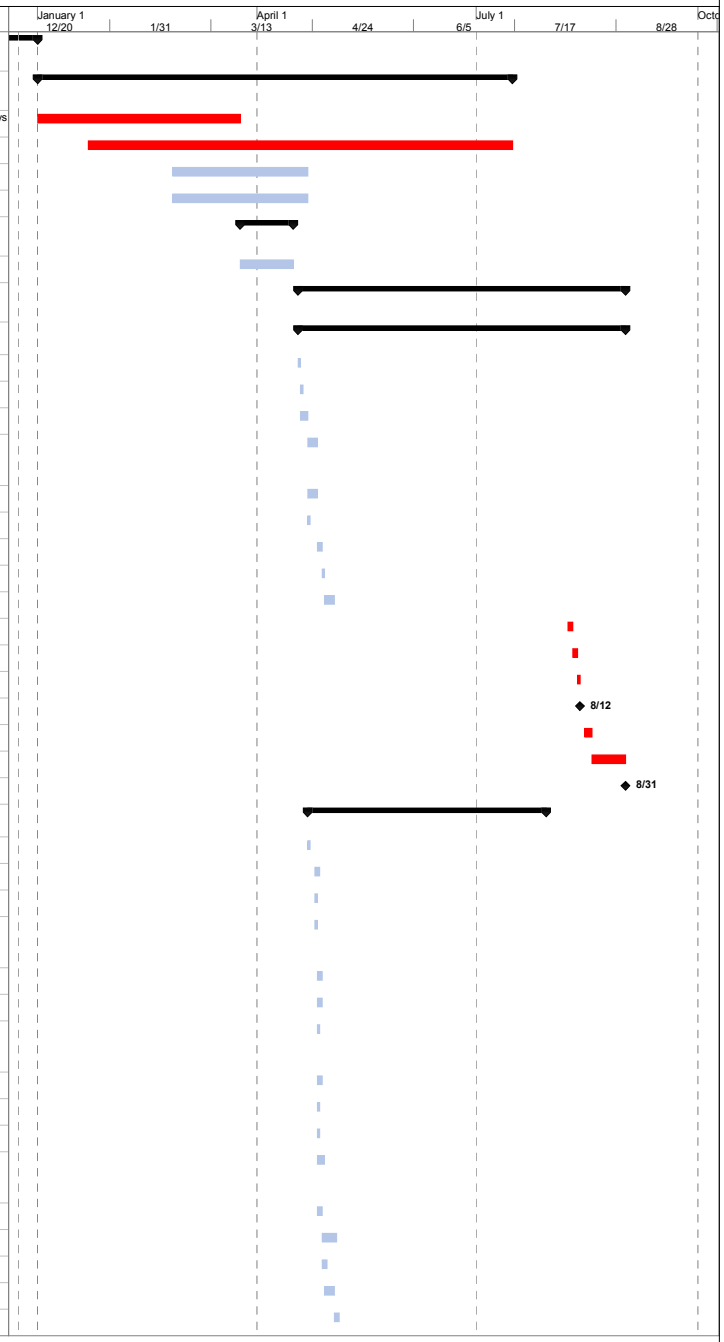
Detailed Cost Estimate and Budget Control Document

	Item #	Description	Quantity	Unit	Total Unit	Notes / Comments / Clarifications	Total Cost
26 00 00	10	New fixture type "A" (see fixture schedule)	1.00	ls		Included	$0
	11	Conduit (see spec section 26 11 00 - 2.01)	1.00	ls		Included	$0
	12	Trenching and backfill for underground conduit	1.00	ls		Included	$0
	13	Remove/replace landscape, asphalt, concrete	1.00	ls	$5,000.00		$5,000
	14	Temporary security lighting, pole, fixture type B				Not Included - City removed from Phase 1	$0
	15	Temporary power				w/ GC's for SG	$0
	ALL						
	21	Elec Permits				Included	$0
26 00 00 Total						**$44,600**	
Division 26 - Electrical Total						***$44,600***	
31							
31 00 00	**Earthwork**						
	PH1						
	1	Phase 1:				Phase 1	$0
	2	Sub Earthwork & Site Demolition	1.00	sub	$16,282.26		$16,282
	3	Remove existing west and east concrete for fountains	2.00	ea		Included	$0
	4	Remove and dispose existing sod for fountains and vaults	4000.00	sf		Included	$0
	5	Strip topsoil to on-site stockpile	38.00	cy		Included	$0
	6	Import/place aggregate subbase at fountains	30.00	cy		Included	$0
	7	Structural excavation/backfill for fountains	30.00	cy		Included	$0
	8	Respread native topsoil	38.00	cy		Included	$0
	9	Finish grading to +/- 0.1' of subgrade	4000.00	sf		Included	$0
	10	Remove and dispose concrete mowband and fence within limits of work				Not Included	$0
	11	Remove and dispose existing asphalt, curb & gutter for CW plumbing line work				w/ Plumbing	$0
	12	Install tree protection fencing				N/A	$0
	13	Hand excavation	10.00	hrs	$50.00		$500
	14	Protection of layout and replcm't as needed	10.00	hrs	$50.00		$500
	ALL						
	40	Unclassified soils/excavations				Excluded	$0
31 00 00 Total						**$17,282**	
31 25 00	**Erosion Control**						
	PH1						
	1	Phase 1:					$0
	2	Vehicle tracking pad				w/ Central Denver Rec project	$0
	3	Silt fence around site	200.00	lf	$2.75		$550
	4	Silt fence at stockpiled topsoil	100.00	lf	$2.75		$275
	5	Inlet filters	1.00	ls	$1,000.00		$1,000
	6	Concrete truck washout, maintenance, clean-up	1.00	ls	$1,500.00	Cleanout of conc washout	$1,500
	7	Road base/gravel at compound & staging area 6" deep				w/ Central Denver Rec project	$0
	8	Street cleaning as needed	2.00	days	$300.00		$600
	9	Maintain erosion control during proj	138.56	hrs	$51.00		$7,067
	10	Engineered stormwater management permit (Good for 1 year)	1.00	ls	$750.00		$750
	11	Engineered stormwater management engineering	1.00	ls	$1,500.00		$1,500
31 25 00 Total						**$13,242**	
31 Total						***$30,524***	
32							
32 31 00	**Fences and Gates**						
	ALL						
	1	Gate with Division 5					$0
32 31 00 Total						**$0**	
32 90 00	**Planting**						
	PH1						
	1	Phase 1:					$0
	2	Resod areas of disturbance	6504.00	sf	$1.50		$9,756
	3	Maintenance through final acceptance of Phase 1 Only				City to maintain new and existing landscaping	$0
	4	Irrigation - move sprinkler heads 3 ft away from wall at Phase 1 area only	1.00	allow	$5,000.00		$5,000
	5	Sta-lok (or similar product) paving around terra cotta walls w/ steel edging	1.00	allow	$6,000.00		$6,000
32 90 00 Total						**$20,756**	
32 Total						***$20,756***	
Grand Total							**$811,846**

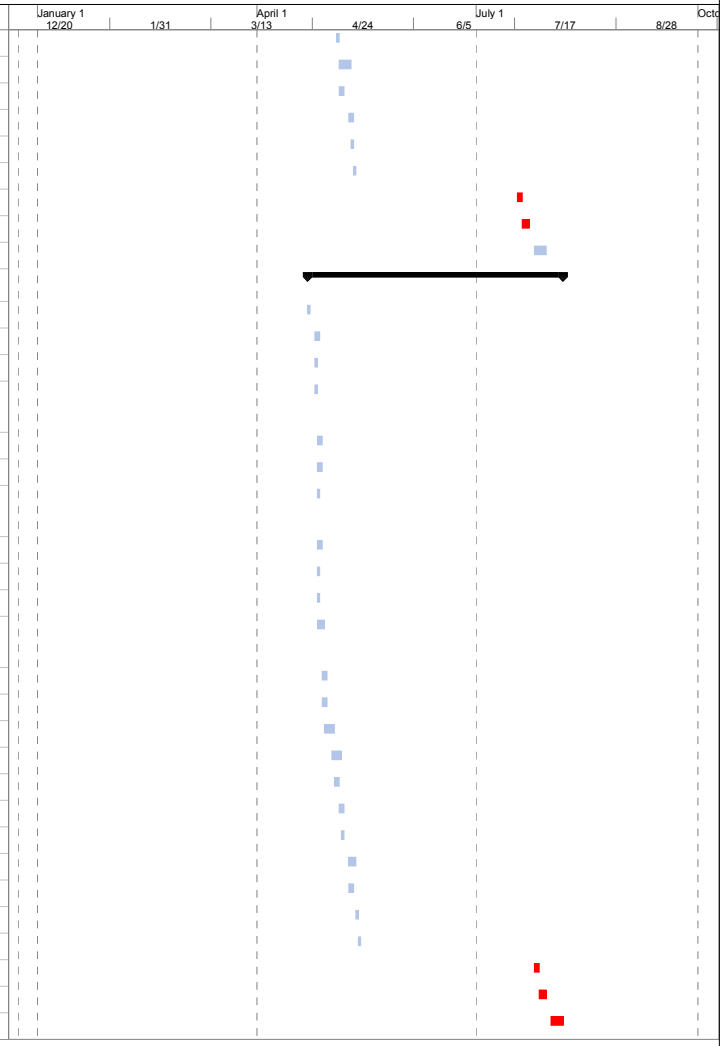
Adolfson & Peterson Construction

Sullivan Gateway Rehabilitation Project
Denver, CO

ID	Task Name	Duration	Start	Finish	% Complete	Float	Predecessors	Successors
1	**Pre-construction Phase**	**214 days**	**Mon 3/9/15**	**Thu 12/31/15**	**100%**	**0 days**		
21	**Subcontract Awards, Submittals & Procurement**	**141 days**	**Fri 1/1/16**	**Fri 7/15/16**	**0%**	**0 days**		
22	Subcontract Awards, Submittals & Procurement	60 days	Fri 1/1/16	Thu 3/24/16	0%	0 days	20	26,27,24SS+40 days
23	Inventory, remove, restore and/or fabricate new terra cotta as needed for both fountains	126 days	Fri 1/22/16	Fri 7/15/16	0%	0 days	22SS+15 days	69
24	Fabricate precast vault for fountain electrical with integral ladder rungs	40 days	Fri 2/26/16	Thu 4/21/16	0%	58 days	22SS+40 days	47,25SS
25	Fabricate precast vault for fountain electrical with integral ladder rungs	40 days	Fri 2/26/16	Thu 4/21/16	0%	58 days	24SS	73
26	**Wait until summer months to start**	**16 days**	**Fri 3/25/16**	**Fri 4/15/16**	**0%**	**47 days**	**22**	
27	Wait until summer months to start actual construction work	16 days	Fri 3/25/16	Fri 4/15/16	0%	47 days	22	30
28	**Construction Phase 1 (Both Fountains)**	**98 days**	**Mon 4/18/16**	**Wed 8/31/16**	**0%**	**0 days**	**20**	
29	***Mobilization***	**98 days**	**Mon 4/18/16**	**Wed 8/31/16**	**0%**	**0 days**		
30	Mobilization	1 day	Mon 4/18/16	Mon 4/18/16	0%	47 days	27	31,32,36
31	Layout for construction fence and SWMP BMP's	1 day	Tue 4/19/16	Tue 4/19/16	0%	49 days	30	34,35,33
32	Call for and obtain utility locates	3 days	Tue 4/19/16	Thu 4/21/16	0%	47 days	30	34,35,33
33	Protect trees with snow fence; protect 5 pedestrian light posts with globes & 2 street lights. Clearly mark all traffic & electric pullboxes that are to remain	2 days	Fri 4/22/16	Mon 4/25/16	0%	53 days	32,31	36
34	Install construction fence & create pedestrian walkways around the project site	2 days	Fri 4/22/16	Mon 4/25/16	0%	47 days	32,31	58
35	Install SWMP BMP's	1 day	Fri 4/22/16	Fri 4/22/16	0%	48 days	32,31	58
36	Trim vegetation back from wall where new masonry work will occur	2 days	Tue 4/26/16	Wed 4/27/16	0%	53 days	30,33	37
37	Litter removal on west side of west wall	1 day	Thu 4/28/16	Thu 4/28/16	0%	53 days	36	38
38	City make determination and perform any necessary tree trimming	2 days	Fri 4/29/16	Mon 5/2/16	0%	53 days	37	68
39	A&P pre-punch work	2 days	Mon 8/8/16	Tue 8/9/16	0%	0 days	71,51,97,77	40
40	Subs complete A&P's pre-punch list	2 days	Wed 8/10/16	Thu 8/11/16	0%	0 days	39	41
41	Architect prepare punchlist	1 day	Fri 8/12/16	Fri 8/12/16	0%	0 days	40	42
42	Substantial Completion	0 days	Fri 8/12/16	Fri 8/12/16	0%	0 days	41	43
43	Complete remaining punchlist items from Architect's punchlist	3 days	Mon 8/15/16	Wed 8/17/16	0%	0 days	42	44
44	Close-out process	10 days	Thu 8/18/16	Wed 8/31/16	0%	0 days	43	45
45	Final completion	0 days	Wed 8/31/16	Wed 8/31/16	0%	0 days	44	
46	***West Fountain work (Phase 1)***	**71 days**	**Fri 4/22/16**	**Fri 7/29/16**	**0%**	**5 days**		
47	Install precast electrical vault for fountain equipment	1 day	Fri 4/22/16	Fri 4/22/16	0%	58 days	24	49,50,48
48	Form, reinforce & pour 4" housekeeping pad	2 days	Mon 4/25/16	Tue 4/26/16	0%	60 days	47	61
49	Locking metal hatch for precast electrical vault for fountain	1 day	Mon 4/25/16	Mon 4/25/16	0%	58 days	47	51,61,54,55,56,57
50	Horizontal boring under roadway to run conduit for 120 volt fountain pump power & to run the 3/4" type K copper water lines	1 day	Mon 4/25/16	Mon 4/25/16	0%	58 days	47	52,53,57
51	Paint precast electrical vault access hatch & vent pipe to match terra cotta color	2 days	Tue 4/26/16	Wed 4/27/16	0%	72 days	49	39
52	Trench & install conduit for 120 volt pump power other than at the horizontal bore location	2 days	Tue 4/26/16	Wed 4/27/16	0%	63 days	50	60,65
53	Mount 5 each new single pole breakers at existing panel in center vault (replace panel if determined that existing panel can't support additional breakers or loads)	1 day	Tue 4/26/16	Tue 4/26/16	0%	66 days	50	66
54	Set new filters for fountain in precast vault	2 days	Tue 4/26/16	Wed 4/27/16	0%	67 days	49	71
55	New water storage tank for fountain in precast vault	1 day	Tue 4/26/16	Tue 4/26/16	0%	68 days	49	71
56	Light fixture installation for fountain electrical vault	1 day	Tue 4/26/16	Tue 4/26/16	0%	68 days	49	71
57	New non-potable water supply piping (NPW) for fountain, drain piping & clean-outs with CIP concrete collars. Install gooseneck pipe for air intake	3 days	Tue 4/26/16	Thu 4/28/16	0%	58 days	49,50	61
58	Excavate & fine grade with new aggregate base for new fountain foundation	2 days	Tue 4/26/16	Wed 4/27/16	0%	47 days	34,35	59,85
59	Form, reinforce, pour, strip & backfill new fountain foundation	4 days	Thu 4/28/16	Tue 5/3/16	0%	47 days	58	63
60	Pull wire for 120 volt pump power	2 days	Thu 4/28/16	Fri 4/29/16	0%	63 days	52	66
61	Set new pumps for fountain in precast vault & sump pump in basin in vault	2 days	Fri 4/29/16	Mon 5/2/16	0%	58 days	49,57,48	62
62	New control panels for pumps for fountain & sump pump	2 days	Tue 5/3/16	Wed 5/4/16	0%	58 days	61	65



Adolfson & Peterson Construction

Sullivan Gateway Rehabilitation Project
Denver, CO

ID	Task Name	Duration	Start	Finish	% Complete	Float	Predecessors	Successors
63	Drill and epoxy dowels for new fountain concrete wall	1 day	Wed 5/4/16	Wed 5/4/16	0%	47 days	59	64
64	Set waterstop, form, reinforce, pour & strip new section of fountain concrete wall	3 days	Thu 5/5/16	Mon 5/9/16	0%	47 days	63	67
65	Install disconnects at pumps, TVSS, new electrical meter & new ground rods	2 days	Thu 5/5/16	Fri 5/6/16	0%	58 days	62,52	66
66	Terminate dolphin & lion fountain wiring at existing panel in electrical vault	2 days	Mon 5/9/16	Tue 5/10/16	0%	58 days	65,60,53	71
67	Parge coat fountain wall to create coved base	1 day	Tue 5/10/16	Tue 5/10/16	0%	47 days	64	68,69
68	Waterproof fountain wall	1 day	Wed 5/11/16	Wed 5/11/16	0%	47 days	67,38	69
69	Terra cotta coping at fountain	2 days	Mon 7/18/16	Tue 7/19/16	0%	0 days	67,68,23	70,95
70	Terra cotta facing at fountain	3 days	Wed 7/20/16	Fri 7/22/16	0%	0 days	69	71,95
71	Energize electrical, start-up & test pumping & filtering equipment, fill fountain & test operation	5 days	Mon 7/25/16	Fri 7/29/16	0%	5 days	56,70,66,54,55	39
72	***East Fountain work (Phase 1)***	**76 days**	**Fri 4/22/16**	**Fri 8/5/16**	**0%**	**0 days**		
73	Install precast electrical vault for fountain equipment	1 day	Fri 4/22/16	Fri 4/22/16	0%	58 days	25	75,76,74
74	Form, reinforce & pour 4" housekeeping pad	2 days	Mon 4/25/16	Tue 4/26/16	0%	60 days	73	86
75	Locking metal hatch for precast electrical vault for fountain	1 day	Mon 4/25/16	Mon 4/25/16	0%	58 days	73	77,86,80,81,82,83
76	Horizontal boring under roadway to run conduit for 120 volt fountain pump power & to run the 3/4" type K copper water lines	1 day	Mon 4/25/16	Mon 4/25/16	0%	58 days	73	78,79,83
77	Paint precast electrical vault access hatch & vent pipe to match terra cotta color	2 days	Tue 4/26/16	Wed 4/27/16	0%	72 days	75	39
78	Trench & install conduit for 120 volt pump power other than at the horizontal bore location	2 days	Tue 4/26/16	Wed 4/27/16	0%	63 days	76	84,89
79	Mount 5 each new single pole breakers at existing panel in center vault (replace panel if determined that existing panel can't support additional breakers or loads)	1 day	Tue 4/26/16	Tue 4/26/16	0%	66 days	76	92
80	Set new filters for fountain in precast vault	2 days	Tue 4/26/16	Wed 4/27/16	0%	67 days	75	97
81	New water storage tank for fountain in precast vault	1 day	Tue 4/26/16	Tue 4/26/16	0%	68 days	75	97
82	Light fixture installation for fountain electrical vault	1 day	Tue 4/26/16	Tue 4/26/16	0%	68 days	75	97
83	New non-potable water supply piping (NPW) for fountain, drain piping & clean-outs with CIP concrete collars. Install gooseneck pipe for air intake	3 days	Tue 4/26/16	Thu 4/28/16	0%	58 days	75,76	86
84	Pull wire for 120 volt pump power	2 days	Thu 4/28/16	Fri 4/29/16	0%	63 days	78	92
85	Excavate & fine grade with new aggregate base for new fountain foundation	2 days	Thu 4/28/16	Fri 4/29/16	0%	50 days	58	87
86	Set new pumps for fountain in precast vault & sump pump in basin in vault	2 days	Fri 4/29/16	Mon 5/2/16	0%	58 days	74,75,83	88
87	Form, reinforce, pour, strip & backfill new fountain foundation	4 days	Mon 5/2/16	Thu 5/5/16	0%	50 days	85	90
88	New control panels for pumps for fountain & sump pump	2 days	Tue 5/3/16	Wed 5/4/16	0%	58 days	86	89
89	Install disconnects at pumps, TVSS, new electrical meter & new ground rods	2 days	Thu 5/5/16	Fri 5/6/16	0%	58 days	78,88	92
90	Drill and epoxy dowels for new fountain concrete wall	1 day	Fri 5/6/16	Fri 5/6/16	0%	50 days	87	91
91	Set waterstop, form, reinforce, pour & strip new section of fountain concrete wall	3 days	Mon 5/9/16	Wed 5/11/16	0%	50 days	90	93
92	Terminate dolphin & lion fountain wiring at existing panel in electrical vault	2 days	Mon 5/9/16	Tue 5/10/16	0%	58 days	79,84,89	97
93	Parge coat fountain wall to create coved base	1 day	Thu 5/12/16	Thu 5/12/16	0%	50 days	91	94,95
94	Waterproof fountain wall	1 day	Fri 5/13/16	Fri 5/13/16	0%	50 days	93	95
95	Terra cotta coping at fountain	2 days	Mon 7/25/16	Tue 7/26/16	0%	0 days	93,94,69,70	96
96	Terra cotta facing at fountain	3 days	Wed 7/27/16	Fri 7/29/16	0%	0 days	95	97
97	Energize electrical, start-up & test pumping & filtering equipment, fill fountain & test operation	5 days	Mon 8/1/16	Fri 8/5/16	0%	0 days	96,80,81,82,92	39