

City Council

Study Session

January 23, 2015

Library Conference Room

951 Spruce Street

12:30 PM – 3:30 PM

- | | | |
|-------------------|-------------|--|
| 12:30 p.m. | I. | Call to Order |
| 12:45 – 2:00 p.m. | II. | Visit to City Services Facility Construction Site (739 South 104 th Street) & Presentations by City Staff, Design Team and General Contractor |
| 2:00 – 2:15 p.m. | III. | Return to Library Meeting Room |
| 2:15 p.m. | IV. | Discussion – City Services Facility Construction Costs, Change Orders, Project Schedule and Budget |
| 3:30 p.m. | V. | Adjourn |

Council members will leave for the site visit at 12:30 PM. Members of the public must provide their own transportation to the site. All discussion will take place following the site visit in the Library Meeting Room.

Additional background/packet materials for the Study Session will be online by 12 pm on Tuesday, January 20, 2015.

SUBJECT: CITY SERVICES FACILITY PROJECT UPDATE

DATE: JANUARY 23, 2015

**PRESENTED BY: MALCOLM FLEMING, CITY MANAGER
KURT KOWAR, PUBLIC WORKS DIRECTOR
KEVIN WATSON, FINANCE DIRECTOR
HEATHER BALSER, DEPUTY CITY MANAGER**

SUMMARY:

Construction work on the City Services Facility (CSF) site at Dillon Road and S. 104th St is proceeding favorably and prospects look good for substantial completion and move-in by August of this year. When 2014 expenses are accounted for, a total of \$10,544,585 is available for this project in the City's 2014 and 2015 budgets. The estimated cost to finish the project is \$10,849,256, including a contingency of \$150,000. Consequently, based on all available information, staff estimates that the project is currently \$304,670 over the currently approved budget. Accordingly, to complete the project without making changes in scope would require a budget amendment of this amount and allocation of \$76,168 each from the Capital Projects, Open Space and Parks, Water and Wastewater Utility Funds. The basis for these calculations are presented in detail in the attached table titled "City Services Facility Expenditures, Budget and Overall Accounting".

Staff, the design and construction teams continue working hard to identify cost savings and to date have implemented, without compromising the functionality and long-term cost effectiveness of the facility, significant "Value Engineering" in design, materials, equipment and other changes. Although staff will continue to look for ways to save, at this point in the project, staff does not think it is likely to identify other significant savings.

Staff presented to Council in September 2014 a Guaranteed Maximum Price contract with Bryan Construction Inc. that appeared to lock in a guaranteed price above which the project would not go. However, the GMP figure presented during the September 2 Council meeting was based on the Design Development documents (60% design), which means there were many details in the scope remaining to be worked out. As the project has progressed, the design work to bring the documents to the 100% level has resulted in scope changes that have produced additional costs/change orders.

Staff believes that the design and construction team is working well, the construction is proceeding successfully and that it was poor communication, not other issues, that failed to highlight in September the remaining uncertainty and unavoidable risks of cost increases. We have made staffing and procedural changes to prevent such communication lapses from happening in the future. This study session is intended to project detailed project information, introduce Council to the contractor and design team and address any questions Council members may have.

FISCAL IMPACT:

Providing for a contingency of \$150,000, staff estimates that the project is currently \$304,670 over the currently approved budget and to complete the project without making changes in scope would require a budget amendment of this amount and allocation of \$76,168 each from the Capital Projects, Open Space and Parks, Water and Wastewater Utility Funds. Staff will continue to refine figures as the project progresses, identify savings and prepare a recommendation for Council Consideration at a later date.

RECOMMENDATION:

Discussion only. This study session is intended to provide background information for City Council and interested public to understand City Services Center project related details.

ATTACHMENT(S):

1. RNL's Project History
2. City Services Facility Expenditures, Budget and Overall Accounting
3. Bryan Construction Potential Change Order Log
4. Bryan Construction Buyout Log
5. Bryan Construction Submittal Log
6. Bryan Construction Project Schedule
7. Summary Comparison with other projects

December 22, 2014

Kurt Kowar
 Director of Public Works
 City of Louisville
 749 Main Street
 Louisville, CO 80027

Dear Mr. Kowar,

As requested, I am providing a documented history of the development of the City of Louisville's new Public Works Facility project. Before I do that though, I would like to start by providing a relatively brief history of the construction industry over the past several years.

This project was advertised in the RFP as a \$6 million total cost project in 2012, which was during the heart of the Great Recession. From 2009 thru 2012 we saw construction prices drop as much as 30% from Pre-Recession construction costs. In 2014, construction costs began rising again rapidly as the Nation's economy rebounded from the Recession, and many shovel-ready projects that were put on hold in 2008/2009 hit the "GO button" to get these projects under construction. Locally, the housing construction industry is a prime example of going from zero to 60mph in a very short amount of time. This year alone we have seen close to 3% in construction escalation costs in Colorado and some of our GCs are even telling us that they are experiencing upwards of 1% escalation per month from some of their sub-contractors. In summary, when contractors are short-staffed and busy, costs increase. According to Turner Construction, one of the largest General Contractors in the US, we have returned to Pre-Recession construction pricing, and the construction cost index now essentially matches 2008's historic prices (source <http://www.turnerconstruction.com/cost-index>).

Concerning your new Public Works facility, there has been some disconnect in the documentation of the decision making process throughout the project. My aim of this letter is to assist you in your discussions with the City Manager and City Council to help them understand how the current project under construction came to be. In addition, I am also proposing an increase to RNL's current Construction Administration fee, plus adding post construction services into our contract with the City, to increase our time construction administration services. A detailed description of existing versus proposed services and associated fees follows this letter, and covers our discussions of your expectations and RNL's involvement throughout construction.

A BRIEF HISTORY OF THE DESIGN AND DECISION MAKING PROCESS

Throughout the entire process we balanced the City's desire for an energy-efficient, civic, modestly design, highly functional new Public Works Facility that will meet immediate and future growth needs (10 years). Overall costs of the facility were discussed throughout each phase of the project, starting the very first week during the programming sessions.

Programming interviews occurred in February 2013 with all key department staff members to establish our own program based on actual department needs utilizing our proven industry standards for bay sizing, mechanical spaces, circulation spaces, equipment and vehicle storage, etc.

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 1050 17th STREET
 SUITE A-200
 DENVER CO 80202
 T 303 295 1717
 F 303 292 0845

LOS ANGELES
 PHOENIX

As shown below, the overall conditioned square footage of the project increased by 7% from the square footages provided in the RFP. In addition, we took into account site costs including a new fuel island, canopied vehicle storage, demolition costs, and site phasing to keep the existing site operational during construction. The estimated costs increased by 26% (\$1.58M) due to the additional square footage and existing site costs. In addition the RFP budget calculated building construction costs at \$192/sf but our program budget calculates these costs to \$226/sf which was based on similar and current regional project experience. The options of “start cutting” or “continue to proceed with an increased budget” were discussed. The City elected to proceed with the current program, as it provides 10 years of operational growth for the Public Works and Parks Departments.

From the RFP (2012):

Existing Public Works Site:	28.38 acres
Public Works Ops and Public Works Facilities Maint (Shared):	8,808 sf
Parks Ops:	5,152 sf
Fleet Maintenance:	6,750 sf
Administration and Meeting Rooms:	<u>10,500 sf</u>
Total (Conditioned Space):	31,210 sf
RFP Budget:	\$6,000,000

RNL's Final Program (February 2013):

Existing Public Works Site:	28.38 acres
Public Works Operations (Shops):	5,880 sf
Public Works Heated Vehicle Storage:	1,272 sf
Parks Ops (Shops, Heated Vehicle Storage):	6,259 sf
Fleet Maintenance:	10,394 sf
Administration and Meeting Rooms:	3,102 sf
Shared Areas:	<u>6,528 sf</u>
Total (Conditioned Space):	33,435 sf

Square Footage Difference (to RFP): +7%

Cost Estimate (presented during programming): \$7,575,778

Cost Difference (to RFP): +26%

Following programming, the next phase was Schematic Design, which occurred during March and April, 2013. After completion of Schematic Design in early May 2013, RNL utilized an independent cost estimator to provide updated costs based on more specific and actual market conditions. At this time these costs jumped significantly to over \$9 million. We again brought this to the City’s attention and together we utilized a Value Engineering process that identified over \$625,000 in cost reduction strategies. As part of the V/E discussion, RNL brought up additional ideas to cut down the overall square footage of the building. These included the following.

- Reducing Parks’ bays from 20ft wide to 16ft wide

- Rearranging the plan so that only 2 maintenance bays remained drive through, and more efficiently utilizing space around the non-drive through bays for equipment storage.
- Reducing the size of the wash bay. This actually ended up becoming bigger because of the City's desire to multipurpose this space to store pre-loaded snow plows at the onset of incoming snow storms.

May 2013 – Completion of Schematic Design

Schematic Design Cost Estimate (existing PW Site):	\$9,025,257
Cost Difference (to RFP):	+50%
Costs after Value Engineering (existing PW Site):	\$8,375,363
Cost Difference (to RFP):	+40%

Also during this time, our team prepared and submitted the PUD submittal on the existing Public Works Site. After submission, the City's internal conversation changed and the CTC site was identified as a new potential location for this project. RNL assisted the City by creating test fits on two different sites at CTC, and the City selected and purchased a third site. RNL was then authorized to update our schematic design set for the current site at Dillon Road and S. 104th Street. At this time, RNL and the City agreed to a change order for \$126,625 to update the schematic design and PUD for the final CTC site. Authorization occurred in October 2013 and an updated design presentation was made to the City in mid-December, 2013. To help cover the increased design costs the Post Construction services were removed from our scope entirely, which eliminated \$9,150 of fee + expenses. This Change Order brought the new contract total to \$825,000.

RNL's Final Program – CTC Site:

Existing Public Works Site:	13.30 acres
Public Works Operations (Shops):	2,734 sf
Public Works Heated Vehicle Storage:	12,067 sf
Parks Ops (Shops):	1,969 sf
Parks Ops (Heated Storage):	8,133 sf
Fleet Maintenance:	6,619 sf
Administration and Meeting Rooms:	8,069 sf
Shared Areas:	<u>7,752 sf</u>
Total (Conditioned Space):	47,343 sf

Square Footage Difference (to RFP):	+52%
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Bryan Construction's construction cost for the new Schematic Design was \$10 million. The additional costs were a result in the change in site work (grading, pavement and new utilities) and the additional square footage (13,908) required by the CTC's design guidelines for enclosing all seasonal fleet vehicles and equipment. City Council approved this budget and authorized completion of the project.

In January 2014, the Plenary Group approached the City about a potential co-habitation of the site to maintain their US-36 maintenance fleet. This conversation and resulting studies continued for several months, until ultimately the Plenary Group pulled out.

Design Development followed the Pre-PUD package taking the design to a 60% overall design level with a deliverable date of 7/17/14. This package was produced in conjunction with the final PUD package which was delivered a day later on 7/18/14. This set was used by Bryan construction as the Guaranteed Maximum Price (GMP) set of drawings. Shortly before DD was issued, RMH informed us that we needed to have a radiant system (either baseboard or radiant floor) in the Admin area. After reviewing with the City, it was decided that a cheaper base board system should be planned for, but it was understood that the radiant floor should remain in the DD drawings given the short timeframe to change the mechanical design. The cost of the base board system was unknown at the review of the initial cost estimate numbers on 8/19/2014. Ultimately the City felt that the radiant floor slab system would serve them best over the life of the building with energy savings and overall comfort. Upon completion of DD, but prior to the establishment of the GMP, RNL alerted both the City's Project Manager and Bryan Construction that a ventilation system would be required in the heated vehicle storage building and also that the design of the in-slab radiant heat in the Administration portion was incomplete, and a contingency for these systems needed to be included in the GMP. This discussion was verbal and unfortunately not documented in meeting minutes or any email.

As the final construction costs were negotiated, the City's Project Manager requested an early delivery of the Civil Engineering construction documents. These were delivered to the City on 7/28/14 to expedite construction starting with grading and sub-grade work immediately after PUD approval.

PUD comments were received from the City and these comments were responded to on 8/18/14. Bryan Construction delivered their initial Guaranteed Maximum Price on 8/26/14. The costs were \$11,406,273, and the GMP stated that escalation costs started immediately until the contract was signed (1% per month) because of the current booming construction industry.

Final CDs were delivered on 9/11/14. At this time the two concurrent permitting review process within the City began, the previously submitted Civil Engineering package and the remainder of the project (architecture, structural, mechanical, electrical, landscape).

The City's Permitting process ended up being much more involved than initially anticipated and totaled 4 separate responses and 20 total weeks. Our initial scope of work identified this process to take 6 weeks.

Civil Engineering Permitting:

13 Weeks

8 weeks for Plan Review and Comments #1
5 weeks for Plan Review and Comments #2

**Architecture and
Engineering Permitting:**

7 Weeks

5 weeks for Plan Review and Comments #1
2 weeks for Plan Review and Comments #2

A final construction cost of \$11,260,000 was negotiated between the City and Bryan Construction. This included the ventilation system in the Heated Vehicle Storage Building and the radiant heating system in Administration, both of which were not included in the GMP. After the construction contract was signed, RNL and Bryan worked diligently to identify more potential cost savings opportunities. Savings identified

amounted to \$225,000 by making changes to the ventilation system in Heated Vehicle Storage, reducing lengths of ductwork and duct liner in the shop bays, and making light fixture modifications in a few areas. And that brings us to where we are today.

Kurt, I appreciate you stepping into the project and your desire for making it right. As you can see from my abbreviated description of the process, there have been a lot of hurdles to clear. I apologize for the need to send you this letter. Our communication and process were not documented well, and when these major changes were necessary, we should have stopped and issued the City a formal letter for response. Please don't hesitate to ask if you require any additional information or clarification.

Our proposal for extended Construction Administration services follows. As discussed, this proposal provides full time service throughout the duration of construction. I also included a revised proposal for post construction services for 11 months following substantial completion.

Sincerely,

A handwritten signature in black ink, appearing to read "A. Merlin Maley, AIA". The signature is fluid and cursive.

A. Merlin Maley, AIA, LEED AP BD+C
Associate Principal, RNL

CC: Tom Wiener, Associate, Project Manager, RNL
Dick Shiffer, Senior Principal, RNL

December 22, 2014
LOUISVILLE PUBLIC WORKS CONSTRUCTION ADMINISTRATION
PROPOSAL FOR ADDITIONAL FEE FOR DESIRED SERVICES

This proposal request is in response to conversations had with the City's previous Project Manager, and the City's Director of Public Works. RNL's current contracted fees were submitted as part of the RFP response in October 2012. Since that time the project has increased in scope, size, and thus the number of RFIs, Submittals, and construction related time required for successful project completion. In addition, our initial proposal included only limited part time representation including bi-weekly site visits + reports and Owner Contractor Architect (OAC) meetings. The City has requested full time representation which includes weekly site visits + reports and OAC meetings, plus as needed site visits as necessary.

CONSTRUCTION COST:	\$11,260,000
TEAM FEES – DESIGN:	
Programming & Concept Design:	\$38,446
Schematic Design and PUD (site 1):	\$114,084
Update Schematic Design and PUD (site 2):	\$126,625
Design Development:	\$198,578
Construction Documents:	\$228,723
Permitting:	<u>\$16,940</u>
Subtotal:	\$723,396
% of Construction:	6.42%

TEAM FEES – CONSTRUCTION (CONTRACT):

Construction Administration (contracted):	\$101,604	<i>Includes 2x per month site visits and field reports, 2x per month OAC meetings, RFIs, submittals, Review of contractors pay applications, 1 day punch list</i>
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<i>% of Current Fee:</i>	12.32%
<i>Number of weeks:</i>	40
<i>Hours per week:</i>	16
<i>Total hours:</i>	640
<i>Total hours to date:</i>	491 (76.72%)

TEAM FEES – CONSTRUCTION (PROPOSED):

Construction Administration (proposed):	\$211,604	<i>Includes 4x + per month site visits and field reports, 4x per month OAC</i>
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meetings on site, Additional weekly site visits as needed, RFIs, submittals, Review of contractor's pay applications, Review of contractor's change orders, multi-day punch list and follow up

<i>% of Current Fee:</i>	13.50%
<i>Number of weeks:</i>	48
<i>Hours per week:</i>	36
<i>Total hours:</i>	1,728
<i>Total hours to date:</i>	491 (28.41%)

CA Difference: \$110,000

TEAM FEES - POST CONSTRUCTION:

As-builts, Warranty Reviews:	\$0
As-builts, Warranty Reviews (proposed):	\$35,000

*3.55% of overall fee
Includes As-Built Record Drawings and Digital Models, 6 month warranty review, 11 month warranty review*

Post Construction Difference: \$35,000

TEAM FEES TOTAL:

Design:	\$723,396
Construction Administration (proposed):	\$211,604
Post Construction (proposed):	<u>\$35,000</u>
TOTAL:	\$970,000

Difference from current contract:

Construction Cost:	\$11,260,000
% of Construction:	8.61%

Includes full services and all reimbursable expenses

City Services Facility Expenditures, Budget and Overall Accounting

Date	Vendor	Expense	Description	Note
2012				
3/20/2012	Hartronft	\$ 3,555	Preliminary Space Planning/Design	
4/3/2012	Civil Arts	\$ 372	Preliminary Plat and Topo Ex Shops	
12/31/2012	Hartronft	\$ 2,950	Preliminary Design	
12/31/2012	Hartronft	\$ 1,668	Preliminary Design	
12/31/2012	Prairie Mountain	\$ 119	RNL RFP Advertisement	
		\$ 8,664		
2013				
3/31/2013	Prairie Mountain	\$ 78	Bryan RFP Advertisement	
4/16/2013	Ace Equipment	\$ 58,035	Portable Lifts	
5/7/2013	CTL Thompson	\$ 7,000	Geotech on Ex Ops	
5/7/2013	Civil Arts	\$ 4,134	Survey/Plat	
5/7/2013	J3 Engineering	\$ 2,887	Site Design/Floodplain	
5/7/2013	RNL Design	\$ 48,533	Design	1st Design Charrette
5/21/2013	RNL Design	\$ 70,053	Design	
6/4/2013	Hartronft	\$ 13,875	PUD Application	
8/6/2013	Civil Arts	\$ 895	Survey/Plat	
8/6/2013	Civil Arts	\$ 270	Survey/Plat	
8/22/2013	First American	\$ 170,000	CTC Land	CTC Land Purchase
10/17/2013	First American	\$ 1,503,811	CTC Land	
10/24/2013	American Title	\$ (508)	CTC Land Titlework	
11/4/2013	Pinyon Environmental	\$ 2,100	CTC Land Phase I Environmental	
12/3/2013	Hurst & Associates	\$ 1,365	Site Engineering	
12/3/2013	RNL Design	\$ 1,022	Design	
12/3/2013	RNL Design	\$ 13,760	Design - Alternatives Site Study	CTC Site Design
12/31/2013	RNL Design	\$ 68,265	Design	
		\$ 1,965,574		
2014				
2/5/2014	CTL Thompson	\$ 4,000	CTC Geotech	
5/6/2014	RNL Design	\$ 5,535	Design	
5/6/2014	RNL Design	\$ 11,782	Design	
5/29/2014	Boulder County	\$ 7,128	Property Taxes	
5/29/2014	Boulder County	\$ 6,242	Property Taxes	
5/29/2014	Boulder County	\$ 13,911	Property Taxes	
7/1/2014	RNL Design	\$ 48,507	Design	
8/19/2014	RNL Design	\$ 5,729	Design	
8/19/2014	RNL Design	\$ 73,654	Design	
9/2/2014	Kumar & Associates	\$ 425	3rd Party Geotech Review of CTL	
9/2/2014	RNL Design	\$ 4,160	Design	
9/2/2014	RNL Design	\$ 1,040	Design	
9/16/2014	RNL Design	\$ 26,938	Design	
10/21/2014	RNL Design	\$ 97,002	Design	
10/31/2014	Bryan Construction	\$ 111,618	Construction Pay App #1 (Paid January 2015)	
11/13/2014	Public Service	\$ 547	Gas & Electric Install	
11/18/2014	RNL Design	\$ 89,388	Design, Permitting, CM	
11/30/2014	Bryan Construction	\$ 211,139	Construction Pay App #2 (Paid January 2015)	
12/11/2014	RNL Design	\$ 88,532	CM (In Review, Not Paid Yet)	
12/18/2014	RNL Design	\$ 117,342	Design, Permitting, CM	
12/31/2014	Bryan Construction	\$ 465,796	Construction Pay App #3 (In Review, Not Paid as of January 20, 2015)	
12/31/2014	RNL Design	\$ -	Outstanding 2014 Costs from 12/11/14 (Not Yet Invoiced, Assumed in 2015 Costs as of 1/20/15)	
		\$ 1,390,415		
2012 - 2014 YTD Expenses		\$ 3,364,653		

RNL

RNL Expenses To Date	\$ (771,241)	up to 12/18/2014 Invoice
RNL CC Approval 01/08/2013	\$ 656,000	Base Contract for Original Site
RNL Amendment #1 12/17/2013	\$ 170,688	CTC Work and Revisions
RNL Amendment #2	\$ 13,440	Traffic, Replat, Topo,
RNL Total Approved	\$ 840,128	Open PO's as of 1/20/15
RNL Requested CO	\$ 130,000	RNL 12/21/2014 Letter Request
RNL Total after Requested CO	\$ 970,128	8.62% of Construction
RNL Outstanding Potential	\$ 198,887	

Bryan

Bryan Expenses To Date	\$ (788,552)	As of Pay App #3
Bryan Base GMP	\$ 11,010,814	Approved by CC 9/2/2014
Bryan Contingency	\$ (215,050)	Included in Base GMP
Bryan CO Log	\$ 534,782	As of 1/20/2015
Bryan Buyout Holding Account	\$ (74,625)	As of 1/20/2015
Bryan Estimated Total	\$ 11,255,921	
Bryan Outstanding Potential	\$ 10,467,369	

Testing

Wassenaar Testing	\$ 13,000
Ground Testing	\$ 20,000
Testing Estimated Total	\$ 33,000

Perspectives

		47,343	Facility Square Ft
			Cost per Square Foot
Construction (Bryan Only)	\$ 11,255,921	\$	238
Construction (Bryan Only) w/ Land	\$ 12,929,732	\$	273
RNL, Bryan, Testing	\$ 12,259,049	\$	259
Tot 2012-YTD, RNL Pot., Bryan Pot., Testing	\$ 14,063,909	\$	297

Overall Project Accounting**1. Project Baseline for 2014/2015**

2013 Expenses Paid and Assumed in Budget	\$ 1,965,574
2014 Budget	\$ 5,485,000
2015 Budget	\$ 6,450,000
Baseline Project Budget (Excludes 2012)	\$ 13,900,574

Includes \$1,000,000 Grant

2. 2014 Carryover into 2015

2014 Expenses	\$ (1,390,415)
2014 Budget	\$ 5,485,000
2014 Estimated Carryover (As of 1/20/15)	\$ 4,094,586

3. 2015 Funding Available to Finish

2014 Estimated Carryover (As of 1/20/15)	\$ 4,094,586
2015 Budget	\$ 6,450,000
2015 Available Budget to Finish	\$ 10,544,586

4. 2015 Estimated Costs to Finish

RNL Outstanding Potential w/ CO	\$ 198,887	As of 1/20/15
Bryan Outstanding w/ CO, Buyout	\$ 10,467,369	As of 1/20/15
Testing Outstanding	\$ 33,000	As of 1/20/15
Unknowns	\$ 150,000	
Total to Finish	\$ 10,849,256	

5. Net 2015 Budget vs Estimated Expense

#3 2015 Budget to Finish	\$ 10,544,586
#4 2015 Costs to Finish	\$ 10,849,256
Net Project to Finish	\$ (304,670)
25% Per Fund Cost to Finish	\$ (76,168)



Potential Change Orders

Summary Log, Grouped by Category

Louisville City Services Center
 Dillon Road & 104th Street S.
 Louisville, CO 80027

Project # 14-045
 Tel: Fax:

Bryan Construction, Inc.

Number	Description	Status	COR No	PCCO No	Budget				Cost				
					Estimate	Prop'd	Apprv'd	Applied	App Days	Estimate	Prop'd	Apprv'd	Applied
Change Order													
001	Masonry rebar increase per 95% CDs	Pending			3,773	0	0	0	0	3,773	0	0	0
002	Mechanical cost increases per 95% CDs	Pending			211,345	0	0	211,345	0	211,345	0	0	211,345
003	ASI 001 Electrical Scope Changes	Pending			131,935	0	0	131,935	0	131,935	0	0	131,935
004	ASI 001 - Additional Floor Polishing	Pending			10,109	0	0	10,109	0	10,109	0	0	10,109
005	ASI 001 - Use Dry Pipe System in HVS	No Cost			0	0	0	0	0	0	0	0	0
006	Use Rotary Lift In Lieu of Steril Koni	Pending			14,149	0	0	14,149	0	14,149	0	0	14,149
007	ASI 001 Door & Hardware Changes	Pending			7,738	0	0	7,738	0	7,738	0	0	7,738
008	RFI 13 - Pivot Hinges_Overhead Door Stops	Pending			(6,603)	0	0	(6,603)	0	(6,603)	0	0	(6,603)
009	95% CDs Utility Changes	Pending			0	0	0	0	0	0	0	0	0
010	Civil Permit Set - Added Trickle Channel	Pending			10,481	0	0	10,481	0	10,481	0	0	10,481
011	RFI 10 - Increased Asphalt Thicknesses	Pending			32,426	0	0	32,426	0	32,426	0	0	32,426
012	Deduct Preconstruction Fee	Pending			(17,293)	0	0	(17,293)	0	(17,293)	0	0	(17,293)
013	ASI 01 - Foundation and Sitework Concrete Changes	Pending			29,181	0	0	29,181	0	29,181	0	0	29,181
014	RFI 21 - Additional Drywall ILO Quiet Rock	Pending			6,550	0	0	6,550	0	6,550	0	0	6,550
015	RFI 06 - Admin Area Slab Thickness	No Cost			0	0	0	0	0	0	0	0	0

Potential Change Orders
Summary Log, Grouped by Category

Number	Description	Status	COR No	PCCO No	Budget				Cost				
					Estimate	Prop'd	Apprv'd	Applied	App Days	Estimate	Prop'd	Apprv'd	Applied
016	ASI 003 - Added Conduit for Vehicle Charging Stations	Pending			1,323	0	0	1,323	0	1,323	0	0	1,323
017	95% CDs Structural Steel Changes	Pending			42,159	0	0	42,159	0	42,159	0	0	42,159
019	MSE Retaining wall at Parking Area	Pending			21,750	0	0	21,750	0	21,750	0	0	21,750
020	RFI 43 - Epic Deck	Pending			1,845	0	0	1,845	0	1,845	0	0	1,845
021	ASI 004 - Structural Revisions	Pending			0	0	0	0	0	0	0	0	0
022	ASI 005 - Revised Electrical Sheet	Pending			0	0	0	0	0	0	0	0	0
023	ASI 006 - MEP for HVS	Pending			15,074	0	0	15,074	0	15,074	0	0	15,074
024	ASI 007 - Metal Panel Specification	Pending			0	0	0	0	0	0	0	0	0
025	ASI 008 - Landscape and Irrigation	No Cost			0	0	0	0	0	0	0	0	0
026	ASI 009 - Radiant Slab & Misc Plumbing	Pending			10,001	0	0	10,001	0	10,001	0	0	10,001
027	ASI 010 - HVS Structural Revisions	Pending			0	0	0	0	0	0	0	0	0
028	LCS-051200-02-00 Submittal Mark Ups	Pending			2,421	0	0	2,421	0	2,421	0	0	2,421
029	RFI 54 - Epic Deck at Canopy	Pending			1,845	0	0	1,845	0	1,845	0	0	1,845
030	RFI 58 - Lintels and Embeds	Pending			595	0	0	595	0	595	0	0	595
031	RFI 09.1 - Bent Plate and Shop Primer	Pending			3,979	0	0	3,979	0	3,979	0	0	3,979
Project Totals:					534,782	0	0	531,009		534,782	0	0	531,009



Project # - 14-045 City of Louisville City Services

Cost Code	Bid Tab	Description	Subcontractor	Estimate Total	Buyout Total	Delta	Letter of Intent	Contract Date	Notes
	1	Surveying	Alpha & Omega	\$10,742	\$17,242	(\$6,500)	9/17/2014		didn't carry the needed voluntary alternates.
	2	Site Concrete	Araco	\$259,283	\$280,132	(\$20,849)	9/12/2014	10/3/2014	
	3	Building Concrete	Araco	\$631,765	\$618,616	\$13,149	9/12/2014	10/3/2014	
	3	Pre-cast Hollow Core	EnCon	\$39,853	39,442.68	\$410	9/23/2014	12/18/2014	
	3	Grind & Polish	concrete floor systems	\$42,835	40,440.00	\$2,395	10/23/2014	1/2/2015	This includes the VE option 41 for grinding and polishing the bathrooms
	4	Masonry	C. Morgen	\$242,800	\$246,000	(\$3,200)	9/23/2014	11/18/2014	
	4	Rebar Material	na	\$5,000	\$0	\$5,000	na	na	rebar material was bought out with C. Morgen in their base contract.
	5	Structural Steel Fabrication	Zimkor	\$471,637	\$353,940	\$117,697	9/19/2014	11/18/2014	
	5	Structural Steel Erection	Best	\$0	\$59,500	(\$59,500)	10/24/2014	1/2/2015	
	6	Metal Building Fabrication	Butler	\$520,837	\$580,837	(\$60,000)	na	9/12/2014	PO for engineering issued. New pricing includes updated drawings per 12/16/14.
	6	Metal Building Erection	J. Gartner	\$256,146	\$256,146	\$0	9/12/2014	1/15/2015	
	7	Rough Carpentry	BCI	\$76,734	\$76,734	\$0	na	na	
	8	Finish Carpentry	JK Concepts	\$22,440	\$22,415	\$25	na		
	9	Insulation	Mato	\$46,240	\$62,008	(\$15,768)	10/23/2014	11/18/2014	Based on 95% & addition of Admin Radiant (23478), 1" 60psi insulation.
	9	Insulation	AAA Waterproofing	\$13,540	\$14,415	(\$875)	10/22/2014	11/18/2014	Includes R-Value Changes up to 95% construction documents
	10	Roofing	Douglas Colony	\$33,532	\$0	\$33,532	11/18/2014	change order	PVC Roofing/Flashing & Trim is included in the Metal & Fiber Cement Wall Panels Number Below
	11	Metal & Fiber Cement Wall Panels	Douglas Colony	\$819,134	\$773,977	\$45,157	11/18/2014	1/2/2015	Base on 95% and includes 1% bonding and Firestone Panels per 100% documents, Also includes PVC Roofing 34,499, Number has been changed to include roofing that was not added.
	12	Moisture Protection & Joint Sealants	RSI	\$35,920	\$35,920	\$0	11/3/2014	1/15/2015	
	13	Solatubes	Solar Green	\$7,400	\$7,000	\$400	11/8/2014	po	Based on 95%. Check bid tap. Believe we carried BCI tab and not Solar Green Lost 5150
	14	Doors, Frames, & Hardware	CBS Manhattan	\$74,470	\$86,000	(\$11,530)	10/24/2014	12/18/2014	Does not include factory paint and deducts for VE options are included. 86K for hardware and installed
	15	OH Doors	Overhead Door Company	\$179,150	\$173,791	\$5,359	10/17/2014	1/15/2015	Does not include sensor operators at 600 a piece
	16	Translucent Wall Panels	Sky Light Specialties	\$77,492	\$78,989	(\$1,497)	10/10/2014	12/18/2014	Price increase based on 95% drawings.
	17	Storefront & Glazing	Cutting Edge Glass	\$130,800	\$130,800	\$0	10/23/2014	12/18/2014	
	17	Storefront & Glazing	Louvers	\$10,870	\$10,870	\$0	na	na	with mech
	18	Metal Studs & DW	South Valley	\$577,725	\$554,004	\$23,721	12/3/2014	1/2/2015	Price includes base + Installing all frames + RFI-021 \$6250.00+bond
	18	Metal Studs & DW	Mato	\$52,721	\$52,721	\$0	10/23/2014	11/18/2014	Spray Foam Carried in this tab
	19	Acoustical Ceilings	SRB Acoustics	\$4,490	\$7,385	(\$2,895)	12/3/2014	12/18/2014	Lumious Panels were not carried, Rebidding.
	20	Flooring	Flooring Solutions	\$44,035	\$39,000	\$5,035	11/21/2014	1/2/2015	Base on ASI 1
	21	Painting	C&G Painting	\$45,500	\$45,500	\$0	11/8/2014	1/15/2015	
	22	Specialties	ABS	\$25,064	\$28,075	(\$3,011)	12/18/2014	1/15/2015	Does not include fire extinguishers as the quinity is not clearly shown
	23	Projection Screens	No Longer in Contract	\$5,690	\$0	\$5,690			
	24	Signage		\$21,794	\$27,794	(\$6,000)			
	25	Shop Equipment		\$214,302	\$214,302	\$0			
	26	Parallelogram Lift		\$87,068	\$87,068	\$0	na	1/16/2015	cost for upgrade to rotary lift shown in co log
	27	Furnishings - Allowance		\$208,874	\$208,874	\$0			
	28	Fuelling Island		\$125,000	\$186,600	(\$61,600)			tbd, one bid received. Waiting on revised bids from on site meeting.
	29	Fire Protection	Frontier Fire Protection	\$87,025	\$88,000	(\$975)	9/19/2014	11/20/2014	
	30	Mechanical	Design Mechanical	\$1,557,745	\$1,532,440	\$25,305	10/13/2014		Base 60% CD bid, minus VE, plus bond.
	31	Electrical	Core Electric	\$734,519	\$734,519	\$0	10/17/2014	12/18/2014	
	32	Earthwork	Front Range	\$162,580	\$181,290	(\$18,710)	9/15/2014	10/3/2014	bci to self perform erosion control
	33	Asphalt Paving	Asphalt Specialites	\$481,634	\$481,634	\$0			Based on updated bids, amount over budget is shown on the change order log. BCI to sign up BCI.
	34	Landscaping	Schultz	\$348,015	\$283,355	\$64,660		1/16/2015	Revised bid 1/05/15, based on 100% cd's, asi 8 included.
	35	Material Storage Bins	BCI	\$46,740	\$46,740	\$0	ordered	ordered	BCI to order, hire installer.
	36	Fencing		\$141,509	\$141,509	\$0			
	37	Site Amenities - Allowance		\$52,700	\$52,700	\$0			
	38	Site Utilities	E-Z Excavating	\$513,922	\$513,922	\$0	9/15/2014	10/3/2014	this amount may need to be adjusted. Bond still needed.

Total: \$9,547,272 \$9,472,647 \$74,625

Name: Louisville City Services
 Location: Louisville, CO
 Architect: RNL Design
 Owner: City of Louisville

Action Code:
 A = Approved
 AaN = Approved as Noted
 R = Rejected
 RR = Revise & Resubmit
 SS = Submit Specified

Job # 14-045
 Project Manager: Edwin Fowler
 Superintendent: Jason Bergey
 Project Engineer: Tyler Zachman
 Project Engineer: Caleb Leland

Division	Spec Section	Submittal Description	Subcontractor/Supplier	Submittal No.	Expected From Subs & Supplier	Actual to Architect / Eng	Expected from Architect / Eng	Actual from Architect / Eng	Returned to Subs. & Supplier	Action	Remarks
DIVISION 03 CONCRETE											
03	03 30 00	CAST-IN-PLACE CONCRETE									
03	03 30 00	ADMIN STEEL REINFORCEMENT DRAWINGS	Araco Concrete	033300-02-00	9/26/2014	9/29/2014	10/7/2014	10/15/2014	10/15/2014	RR	
03	03 30 00	ADMIN STEEL REINFORCEMENT DRAWINGS	Araco Concrete	033300-02-01	10/24/2014	10/24/2014	10/30/2014	11/6/2014	11/6/2014	AAN	
03	03 30 00	SALT SHED STEEL REINFORCEMENT DRAWINGS	Araco Concrete	033000-03-00	9/26/2014	10/1/2014	10/8/2014	11/10/2014	11/14/2014	AAN	
03	03 30 00	HVS FOUNDATION REINFORCEMENT DRAWINGS	Araco Concrete	033000-05-00	10/24/2014	12/17/2014	12/24/2014	1/6/2015	1/6/2015	AAN	
03	03 30 00	MEZZANINE STEEL REINFORCEMENT DRAWINGS S.O.D	Araco Concrete	033000-06-00	1/6/2015	1/6/2015	1/13/2015				
03	03 30 00	MIX DESIGNS	Araco Concrete	033300-01-00	9/23/2014	9/29/2014	10/7/2014	10/6/2014	10/7/2014	AaN	Re-submit Flatwork - 4500psi-Noflyash-No water reducer.
03	03 30 00	FIBER MESH MIX DESIGN	Araco Concrete								
03	03 30 00	CURING / MISC. CONCRETE PRODUCTS	Araco Concrete	033300-04-00	9/23/2014	10/6/2014	10/13/2014	11/6/2014	11/6/2014	A	
03	03 35 03	CONCRETE FLOOR CURING SEALING AND DUSTPROOFING TREATMENT	Concrete Floor Systems								
03	03 35 16	CONCRETE FLOOR SEALING AND HARDENING TREATMENT	Concrete Floor Systems	033516-01-00	11/19/2014	11/4/2014	11/11/2014	12/10/2014	12/11/2014	RR	Submit Chemical Resistance Data
03	03 35 16	CONCRETE FLOOR SEALING AND HARDENING TREATMENT	Concrete Floor Systems	033516-01-01							
03	03 35 43	HONED AND POLISHED CONCRETE FINISHING	Concrete Floor Systems	033543-01-00	11/19/2014	11/4/2014	11/11/2014	11/26/2014	11/26/2015	Reviewed	
03	03 41 13	PRECAST STRUCTURAL CONCRETE PLANKS	EnCon	034113-01-00	10/1/2014	10/20/2014	10/27/2014	11/21/2014	11/21/2015	SS	3 Week lead time
03	03 41 13	PRECAST STRUCTURAL CONCRETE PLANKS	EnCon	034113-01-01	1/12/2015	1/12/2015	1/16/2015				
03	03 53 14	QUARTZ-AGGREGATE CONCRETE FLOOR TOPPING - LIGHT REFLECTIVE	Araco Concrete	035314-01-00	10/19/2014	10/21/2014	10/28/2014	1/7/2015	1/7/2015	RR	
DIVISION 04 MASONRY											
04	04 22 00	CONCRETE UNIT MASONRY	C. Morgen	042200-01-00	10/7/2014	10/1/2014	10/8/2014	10/8/2014	10/8/2014	RR	Remove C. Morgen Letterhead from Submittal
04	04 22 00	CONCRETE UNIT MASONRY	C. Morgen	042200-01-01	10/21/2014	10/21/2014	10/28/2014	11/3/2014	11/4/2014	AAN	Submit Cavity Drainage Material, Cell Insulation, Veneer And
04	04 22 00	STEEL REINFORCEMENT DRAWINGS	C. Morgen	042200-02-00	10/7/2014	10/17/2014	10/24/2014	11/2/2014	11/4/2014	RR	Include Mechanical Openings in Elevations.
04	04 22 00	STEEL REINFORCEMENT DRAWINGS	C. Morgen	042200-02-01	11/11/2014	11/18/2014	11/24/2014	11/25/2014	11/24/2014	RR	
04	04 22 00	STEEL REINFORCEMENT DRAWINGS	C. Morgen	042200-02-02	12/4/2014	12/10/2014	12/17/2014	12/16/2014	12/16/2014	AAN	
04	04 22 00	SAMPLES FOR INITIAL SELECTION	C. Morgen	042200-03-00	10/7/2014	10/17/2014	10/24/2014	11/2/2014	11/12/2014	A	Reviewed - Final Approval to come from mock up.
04	04 22 00	CONCRETE UNIT MASONRY Veneer Anchors / Cavity Drainage Material	C. Morgen	042200-04-00	11/6/2014	11/6/2014	11/13/2014	11/20/2014	11/25/2014	AAN	CMU Insulation to be submitted under division 07.
04	04 22 00	CONCRETE UNIT MASONRY Masonry-Cell Insulation	C. Morgen	042200-05-00	11/26/2014	12/2/2014	12/9/2014	12/8/2014	12/9/2014	A	Perlite
DIVISION 05 METALS											
05	05 12 00	STRUCTURAL STEEL FRAMING	Zimkor	051200-04-00	12/24/2014	12/26/2014	1/2/2015	1/11/2015	1/12/2015	AAN	Confirm in Writing.
05	05 12 00	STRUCTURAL STEEL STANDARDS	Zimkor	051200-01-00	11/17/2014	10/3/2014	10/10/2014	10/29/2014	10/29/2014	AAN	
05	05 12 00	STRUCTURAL STEEL PRIMER	Zimkor	051200-03-00	11/17/2014	11/17/2014	11/24/2014				
05	05 12 00	STRUCTURAL STEEL PRIMER	Zimkor	051200-05-00	1/15/2015	1/15/2015	1/19/2015				
05	05 12 00	ADMIN BUILDING EMBEDMENT & ANCHOR BOLT DRAWINGS	Zimkor	051200-02-00	10/2/2014	10/14/2014	10/21/2014	11/3/2014	11/4/2014	RR	
05	05 12 00	ADMIN BUILDING EMBEDMENT & ANCHOR BOLT DRAWINGS	Zimkor	051200-02-01	11/6/2014	11/10/2014	11/17/2014	11/17/2014	11/17/2014	AAN	
05	05 12 13	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL FRAMING	Zimkor	051200-04-00	12/24/2014	12/26/2014	1/2/2015	1/11/2015	1/12/2015	AAN	Confirm in Writing.
05	05 12 13	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL FRAMING Shop Primer	Zimkor	051213-01-00	12/1/2014	12/1/2014	12/8/2014				
05	05 21 00	STEEL JOIST FRAMING	Vulcraft	052100-01-00	11/21/2014	11/24/2014	12/3/2014	12/8/2014	12/9/2014	AAN	Pending Structural Design / RFI 004.1
05	05 31 00	STEEL DECKING	Vulcraft	053100-01-00	11/21/2014	11/24/2014	12/3/2014	12/8/2014	12/9/2014	AAN	
05	05 31 00	VULCRAFT DECK	Vulcraft	053100-01-00	11/21/2014	11/24/2014	12/3/2014	12/8/2014	12/9/2014	AAN	
05	05 31 00	EPIC DECK	Vulcraft	053100-01-00	11/21/2014	11/24/2014	12/3/2014	12/8/2014	12/9/2014	AAN	
05	05 31 00	EPIC DECK Canopy Drawings	Vulcraft	053100-02-00	12/18/2014	12/18/2014	12/19/2014	12/18/2015	12/18/2015	AAN	
05	05 40 00	COLD-FORMED METAL FRAMING	South Valley Drywall		1/15/2015						
05	05 50 00	METAL FABRICATIONS	Zimkor	055000-01-00	12/15/2014	12/1/2014	12/8/2014				
05	05 50 01	METAL BOLLARDS	Zimkor	055001-01-00	12/15/2014	12/1/2014	12/8/2014	12/18/2014	12/19/2014	AAN	
05	05 50 02	PIPE GUARDS									
05	05 51 13	METAL PAN STAIRS	Zimkor	055113-01-00	12/1/2014	12/1/2014	12/8/2014	1/8/2015	1/8/2015	AAN	
05	05 51 13	METAL PAN STAIRS	Zimkor	055113-02-00	12/12/2014	12/15/2014	12/22/2014	1/8/2015	1/8/2015	AAN	
05	05 52 13	STEEL TUBE RAILINGS	Zimkor	055213-01-00	12/1/2014	12/1/2014	12/8/2014				
05	05 53 00	METAL GRATINGS									
DIVISION 06 WOOD PLASTIC COMPOSITIES											
06	06 10 00	ROUGH CARPENTRY SALT STORAGE	BCI								
06	06 16 43	GYPSUM SHEATHING	South Valley Drywall		1/15/2015						
06	06 40 23	INTERIOR ARCHITECTURAL WOODWORK	JK Concepts								
06	06 64 00	PLASTIC PANELING	BCI								
DIVISION 07 THERMAL AND MOISTURE PROTECTION											
07	07 11 13	BITUMINOUS DAMPPROOFING	AAA	071113-01-00	11/13/2014	11/13/2014	11/17/2014	11/21/2014	11/25/2014	SS	
07	07 11 13	BITUMINOUS DAMPPROOFING	AAA	071113-02-00	11/25/2014	12/2/2014	12/9/2014	12/11/2014	12/11/2014	A	
07	07 19 00	WATER REPELLENTS	Concrete Floor Systems	071900-01-00	11/26/2014	12/8/2014	12/15/2014	12/30/2014	12/30/2014	A	
07	07 21 13	CONTINUOUS MINERAL BOARD INSULATION (CMU)	C. Morgen	072113-01-00	11/11/2014	11/12/2014	11/14/2014	11/18/2014	11/18/2014	AAN	
07	07 21 13	CONTINUOUS MINERAL BOARD INSULATION (CMU)	C. Morgen	072113-01-01	12/8/2014	12/8/2014	12/12/2014	12/10/2014	12/11/2014	A	Substitution Request 3"
07	07 21 13	CONTINUOUS MINERAL BOARD INSULATION (RAIN SCREEN)	Douglas Colony	072113-02-0	11/20/2014	11/20/2014	11/27/2014	11/26/2014	11/26/2014	AAN	10 week lead time
07	07 21 13	CONTINUOUS MINERAL BOARD INSULATION (RAIN SCREEN)	Douglas Colony	072113-02-1	11/20/2014	11/20/2014	11/27/2014	11/26/2014	11/26/2014	AAN	10 week lead time
07	07 21 15	FOAM BOARD INSULATION - UNDER SLAB ON GRADE	MATO	072115-01-00	11/15/2014	10/24/2014	10/31/2014	11/13/2014	11/14/2014	A	9 week lead time
07	07 21 29	SPRAYED INSULATION	MATO	072129-01-00	11/5/2014	10/24/2014	10/31/2014	11/26/2014	12/10/2014	R	Reviewed - City Approves Per OAC Meeting #5

Division	Spec Section	Submittal Description	Subcontractor/Supplier	Submittal No.	Expected From Subs & Supplier	Actual to Architect / Eng	Expected from Architect / Eng	Actual from Architect / Eng	Returned to Subs. & Supplier	Action	Remarks
07	07 25 00	WEATHER BARRIERS	Douglas Colony	072500-01-00	12/15/2014	12/16/2014	12/23/2014	1/2/2015	1/7/2015	RR	
07	07 42 13	METAL PLATE WALL PANELS SHOP DRAWINGS	Douglas Colony	074213-01-00	1/15/2015	1/20/2015	1/27/2015				
07	07 46 46	FIBER CEMENT RAINSCREEN CAVITY PANEL SHOP DRAWINGS	Douglas Colony	074213-01-00	1/15/2015	1/20/2015	1/27/2015				
07	07 54 19	POLYVINYL-CHLORIDE (PVC) ROOFING	Douglas Colony	075419-01-00	12/19/2014	12/26/2014	1/2/2015				
07	07 62 00	SHEET METAL FLASHING AND TRIM	Douglas Colony								
07	07 84 13	PENETRATION FIRESTOPPING									
07	07 84 46	FIRE-RESISTIVE JOINT SYSTEMS									
07	07 92 00	JOINT SEALANTS (WINDOWS)	Cutting Edge Glass	079200-01-00	11/25/2014	11/25/2014	12/5/2014				
07	07 92 00	JOINT SEALANTS (Concrete Flooring)	Concrete Floor Systems	079200-02-00	11/25/2014	11/26/2014	12/5/2014				
		DIVISION 08 OPENINGS									
08	08 11 13	HOLLOW METAL DOORS AND FRAMES									
08	08 11 13	HOLLOW METAL FRAMES	CBS Manahattan	081113-01-00	11/13/2014	11/4/2014	11/11/2014	11/21/2014	11/25/2014	AAN	4 week lead time
08	08 11 13	HOLLOW METAL DOORS	CBS Manahattan	081113-01-00	11/13/2014	11/4/2014	11/11/2014	11/21/2014	11/25/2014	AAN	
08	08 14 16	FLUSH WOOD DOORS	CBS Manahattan	081416-01-00	11/13/2014	11/4/2014	11/11/2014				
08	08 31 13	WALL AND CEILING ACCESS DOORS AND FRAMES	Core / Design								
08	08 33 23	INTERIOR OVERHEAD COILING DOORS, MANUALLY OPERATED	Overhead Door Co.	083113-01-00	11/13/2014	11/4/2014	11/11/2014				
08	08 36 13	SECTIONAL DOORS, MOTOR OPERATED	Overhead Door Co.	083613-01-00	11/13/2014	11/4/2014	11/11/2014	1/17/2015	1/20/2015	AAN	
08	08 41 13	ALUMINUM-FRAMED STOREFRONTS AND FIXED WINDOWS	Cutting Edge Glass	084113-01-00	11/13/2014	11/25/11/25	12/5/2014				
08	08 41 13	ALUMINUM-FRAMED STOREFRONTS AND FIXED WINDOWS SHOP DRAWINGS	Cutting Edge Glass	084113-02-00	11/13/2014	11/25/11/25	12/5/2014	1/13/2015	1/14/2015	AAN	
08	08 42 13	ALUMINUM FRAMED MANUAL SWING ENTRANCE DOORS	Cutting Edge Glass	084213-01-00	11/13/2014	11/25/2014	12/5/2014				
08	08 45 13	STRUCTURED-POLYCARBONATE-PANEL ASSEMBLIES	SkyLite Specialties	084513-01-00	12/23/2014	12/23/2014	12/30/2014				
08	08 62 23	TUBULAR DAYLIGHTING SYSTEM	Solargreen	086223-01-00	12/1/2014	12/2/2014	12/9/2014				
08	08 71 00	DOOR HARDWARE									
08	08 71 00	HOLLOW METAL AND FLUSH WOOD DOOR HARDWARE	CBS Manahattan	087100-01-00	11/13/2014	11/4/2014	11/11/2014	12/17/2014	12/17/2014	RR	
08	08 71 00	HOLLOW METAL AND FLUSH WOOD DOOR HARDWARE	CBS Manahattan	087100-01-01	12/30/2014	1/2/2015	1/9/2015				
08	08 71 00	ALUMINUM HARDWARE	Cutting Edge Glass	087100-02-00	11/13/2014	11/25/2014	12/5/2014				
08	08 80 00	GLAZING	Cutting Edge Glass	088000-01-00	11/13/2014	11/25/2014	12/5/2014	12/30/2014	12/30/2014	AAN	
08	08 80 00	GLAZING	Cutting Edge Glass	088000-01-01	1/12/2015	1/13/2015	1/16/2015	1/16/2015	1/16/2015	A	
08	08 83 00	MIRRORS									
08	08 91 19	FIXED EXTRUDED-ALUMINUM LOUVERS	Design Mechanical								
		DIVISION 09 FINISHES									
09	09 22 16	NON-STRUCTURAL METAL FRAMING	South Valley Drywall		1/15/2015						
09	09 29 00	GYPSUM BOARD	South Valley Drywall		1/15/2015						
09	09 30 00	TILING	Flooring Solutions								
09	09 54 16	LUMINOUS PANEL CEILINGS	SRB Acoustics	095416-01-00	12/31/2014	1/13/2015	1/20/2015				
09	09 65 13	RESILIENT BASE AND MOLDING ACCESSORIES	Flooring Solutions								
09	09 68 13	TILE CARPETING	Flooring Solutions								
09	09 91 13	EXTERIOR PAINTING	C&G Painting								
09	09 91 23	INTERIOR PAINTING	C&G Painting								
09	09 96 00	HIGH-PERFORMANCE COATINGS	C&G Painting								
		DIVISION 10 SPECIALTIES									
10	10 14 19	SIGNAGE DIMENSIONAL LETTER SIGNAGE									
10	10 14 23	INTERIOR PANEL SIGNAGE									
10	10 21 13	SOLID POLYMER TOILET COMPARTMENTS	ABS								
10	10 28 00	COMMERCIAL TOILET ACCESSORIES	ABS								
10	10 44 13	FIRE EXTINGUISHER CABINETS	ABS								
10	10 44 16	FIRE EXTINGUISHERS	ABS								
10	10 51 13	METAL LOCKERS	ABS	105113-01-00	1/9/2015	1/13/2015	1/20/2015				
10	10 56 00	STORAGE EQUIPMENT									
10	10 71 13	FIXED SUN SCREENS	Cutting Edge Glass	084113-02-00	11/13/2014	11/25/11/25	12/5/2014				
10	10 73 16	METAL WALL-MOUNTED CANOPIES	Cutting Edge Glass	107316-01-00	11/13/2014	11/25/2014	12/5/2014				
10	10 75 16	GROUND-SET ALUMINUM FLAGPOLE	ABS	1-107516-01-00	12/31/2014	1/2/2015	1/9/2015				
		DIVISION 11 EQUIPMENT									
11	11 11 00	VEHICLE SERVICE EQUIPMENT									
11	11 11 29	SHOP EQUIPMENT									
11	11 11 40	RELOCATION OF EXISTING EQUIPMENT DIRECTIVES									
11	11 12 00	PARKING CONTROL EQUIPMENT									
11	11 31 00	RESIDENTIAL APPLIANCES									
11	11 24 19	VACUUM EQUIPMENT									
11	11 52 13	PROJECTION SCREENS									
11	11 52 23	OVERHEAD PROJECTOR MOUNTS									
		DIVISION 12 FURNISHINGS									
12	12 93 00	SITE FURNISHINGS									
		DIVISION 13 SPECIAL CONSTRUCTION									
13	13 34 19	METAL BUILDING SYSTEMS									
13	13 34 19	HVS PRE-MANUFACTURED STRUCTURE	Butler Building	133419-01-00	9/17/2014	10/1/2014	10/15/2014	10/8/2014	10/9/2014	RR	
13	13 34 19	HVS PRE-MANUFACTURED STRUCTURE Shop Drawings	Butler Building	133419-01-01	12/1/2014	12/16/2014	12/23/2014	1/6/2015	1/6/2015	AAN	Written Confirmation Required
13	13 34 19	HVS PRE-MANUFACTURED STRUCTURE Reaction Calculations	Butler Building	133419-04-00	12/1/2014	12/16/2014	12/23/2014	1/6/2015	1/6/2015	AAN	Pending RNL Response
13	13 34 19	HVS PRE-MANUFACTURED STRUCTURE BIM	Butler Building	133419-03-00	12/1/2014	12/16/2014	12/23/2014	1/6/2015	1/6/2015	A	Pending RNL Response
13	13 34 19	ADMIN/SALT STORAGE ROOFING SOFFIT SYSTEMS	Butler Building	133419-02-00	11/18/2014	11/19/2014	11/26/2014				
13	13 34 19	BUTLER COLOR CHART	Butler Building	133419-05-00	1/13/2015	1/13/2015	1/16/2015				
		DIVISION 14 CONVEYING EQUIPMENT									
14	14 45 00	VEHICLE LIFTS HEAVY DUTY PARALLELOGRAM TYPE LIFT	Rotary Lift Company	144500-01-00	11/25/2014	11/25/2014	12/5/2014	12/5/2014	12/9/2014	RR	
		DIVISION 21 FIRE SUPPRESSION									
21	21 05 00	COMMON WORK RESULTS FOR FIRE SUPPRESSION	Frontier Fire								
21	21 10 00	AUTOMATIC FIRE SPRINKLER PRODUCT DATA	Frontier Fire	211000-01-00	12/9/2014	12/10/2014	12/17/2014	12/19/2014	12/22/2014	AAM	
21	21 10 00	AUTOMATIC FIRE SPRINKLER SHOP DRAWINGS ADMIN.	Frontier Fire	211000-02-00	12/9/2014	12/10/2014	12/17/2014	12/19/2014	12/22/2014	RR	Provide Transverse Sections

Division	Spec Section	Submittal Description	Subcontractor/Supplier	Submittal No.	Expected From Subs & Supplier	Actual to Architect / Eng	Expected from Architect / Eng	Actual from Architect / Eng	Returned to Subs. & Supplier	Action	Remarks
21	21 10 00	AUTOMATIC FIRE SPRINKLER SHOP DRAWINGS ADMIN.	Frontier Fire	211000-02-01	1/14/2015	1/14/2015	1/21/2015				
21	21 10 00	AUTOMATIC FIRE SPRINKLER SYSTEMS CALCULATIONS ADMIN	Frontier Fire	211000-03-00	12/9/2014	12/10/2014	12/17/2014	12/19/2014	12/22/2014	AAN	
		DIVISION 22 PLUMBING	Design Mechanical								
22	22 05 00	COMMON WORK RESULTS FOR PLUMBING	Design Mechanical	220500-01-00	1/12/2015	1/13/2015	1/20/2015				
22	22 05 23	GENERAL DUTY VALVES FOR PLUMBING PIPING	Design Mechanical	220523-01-00	11/20/2014	1/13/2015	1/20/2015				
22	22 05 29	HANGERS AND SUPPORTS FOR PLUMBING PIPE AND EQUIPMENT	Design Mechanical	220529-01-00	11/20/2014	1/13/2015	1/20/2015				
22	22 07 00	PLUMBING INSULATION	Design Mechanical								
22	22 10 00	PLUMBING PIPING SYSTEMS	Design Mechanical	221000-01-00	11/13/2014	11/13/2014	11/20/2014	11/24/2014	11/25/2014	AAN	
22	22 10 00	UNDERGROUND DOMESTIC WASTE & VENT	Design Mechanical								
22	22 15 13	GENERAL SERVICE COMPRESSED AIR PIPING	Design Mechanical								
22	22 30 00	PLUMBING FIXTURES, EQUIPMENT, AND SPECIALTIES	Design Mechanical								
22	22 30 00	CAST IN PLACE FLOOR DRAINS & AREA DRAINS	Design Mechanical	221000-01-00	11/13/2014	11/13/2014	11/20/2014	11/24/2014	11/25/2014	AAN	This was submitted under 22 10 00
		DIVISION 23 HEATING, VENTILATION, AND AIR CONDITIONING	Design Mechanical								
23	23 0500	COMMON WORK RESULTS FOR HVAC	Design Mechanical								
23	23 05 23	GENERAL DUTY VALVES FOR HVAC SYSTEMS	Design Mechanical								
23	23 05 25	VARIABLE FREQUENCY DRIVES FOR HVAC SYSTEMS	Design Mechanical		Various						
23	23 05 29	HANGERS AND SUPPORTS FOR HVAC SYSTEMS	Design Mechanical								
23	23 05 93	TESTING, ADJUSTING, AND BALANCING FOR HVAC	Design Mechanical								
23	23 07 00	MECHANICAL INSULATION	Design Mechanical								
23	23 08 00	STARTUP, TESTING AND COMMISSIONING OF HVAC WITH COMMISSIONING AGENT	Design Mechanical								
23	23 09 13	INSTRUMENTATION AND CONTROLS FOR HVAC	Design Mechanical								
23	23 09 93	SEQUENCE OF OPERATION	Design Mechanical								
23	23 11 14	FACILITY FUELING SYSTEMS									
23	23 11 23	FUEL GAS PIPING AND ACCESSORIES	Design Mechanical								
23	23 21 13	HYDRONIC PIPING	Design Mechanical								
23	23 21 14	UNDERGROUND HYDRONIC PIPING	Design Mechanical								
23	23 21 16	HYDRONIC PIPING SPECIALTIES	Design Mechanical								
23	23 21 23	HYDRONIC PUMPS	Design Mechanical								
23	23 23 00	REFRIGERATION PIPING AND SPECIALTIES	Design Mechanical								
23	23 31 00	HVAC DUCTS AND ACCESSORIES	Design Mechanical								
23	23 34 00	FANS	Design Mechanical								
23	23 36 00	AIR TERMINAL UNITS	Design Mechanical		11/7/2015						
23	23 37 00	AIR OUTLETS AND INLETS	Design Mechanical								
23	23 52 00	HEATING BOILERS	Design Mechanical								
23	23 62 00	REFRIGERATION CONDENSERS/CONDENSING UNITS	Design Mechanical	236200-01-00	11/10/2014	11/13/2014	11/20/2014	11/20/2014	11/25/2014	RR	
23	23 62 00	REFRIGERATION CONDENSERS/CONDENSING UNITS	Design Mechanical	236200-01-01							
23	23 73 13	MODULAR INDOOR AIR HANDLING UNITS	Design Mechanical	237313-01-00	11/10/2014	11/13/2014	11/20/2014	11/19/2014	11/19/2014	RR	
23	23 73 13	MODULAR INDOOR AIR HANDLING UNITS	Design Mechanical	237313-01-01	12/4/2014	12/9/2014	12/16/2014	12/17/2014	12/18/2014	AAN	
23	23 81 26	SPLIT SYSTEM AIR CONDITIONERS	Design Mechanical								
23	23 83 16	RADIANT HEATING - HYDRONIC PIPING	Design Mechanical	238316-01-00	11/5/2014	11/5/2014	11/12/2014	12/1/2014	12/2/2014	RR	Potential Re-design of radiant floor zones.
23	23 83 16	RADIANT HEATING - HYDRONIC PIPING	Design Mechanical	238316-01-01							Re-submittal with updated zones Pending ASI.
		DIVISION 26 ELECTRICAL	Core Electric								
26	26 00 10	COMMON WORK RESULTS FOR ELECTRICAL	Core Electric		11/10/2014						
26	26 05 19	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES	Core Electric	260519-01-00	11/10/2014	12/2/2014	12/9/2014	12/3/2014	12/3/2014	AAN	
26	26 05 26	GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS	Core Electric	260526-01-00	11/10/2014	11/13/2014	11/20/2014	11/19/2014	11/20/2014	SS	
26	26 05 26	GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS	Core Electric	260526-01-01	12/4/2014	12/9/2014	12/16/2014				
26	26 05 33	RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS	Core Electric	260533-02-00	11/10/2014	11/17/2014	11/24/2014	12/2/2014	12/2/2014	AAN	
26	26 05 33	UNDERGROUND PVC CONDUITS	Core Electric	260533-01-00	11/10/2014	11/5/2014	11/12/2014	11/17/2014	11/17/2014	AAN	
26	26 05 33	CAST IN PLACE FLOOR BOXES & DEVICES	Core Electric	260533-03-00	11/10/2014	11/18/2014	11/25/2014	12/2/2014	12/2/2014	A	
26	26 05 36	CABLE TRAYS FOR ELECTRICAL SYSTEMS	Core Electric								
26	26 05 53	IDENTIFICATION FOR ELECTRICAL SYSTEMS	Core Electric								
26	26 08 00	ELECTRICAL TESTING	Core Electric								
26	26 09 23	LIGHTING CONTROL DEVICES	Core Electric								
26	26 09 36	MODULAR DIMMING CONTROLS	Core Electric								
26	26 09 43	RELAY-BASED LIGHTING CONTROLS	Core Electric								
26	26 22 00	LOW-VOLTAGE TRANSFORMERS	Core Electric	262200-01-00	11/17/2014	12/9/2014	12/16/2014	12/15/2014	12/16/2014		Submit 10Yr. Warranty / Test Reports
26	26 24 16	PANELBOARDS	Core Electric	262416-01-00	11/17/2014	12/9/2014	12/16/2014				
26	26 27 26	WIRING DEVICES	Core Electric	262726-01-00	11/17/2014	1/5/2015	1/12/2015	1/8/2015	1/12/2015	RR	Resubmit Device Plates
26	26 28 13	FUSES	Core Electric								
26	26 28 16	ENCLOSED SWITCHES AND CIRCUIT BREAKERS	Core Electric	262816-01-00	11/17/2014	12/9/2014	12/16/2014	12/19/2014	12/22/2014	RR	
26	26 32 13	ENGINE GENERATORS	Core Electric	233213-01-00	11/17/2014	11/17/2014	11/24/2014	11/20/2014	11/24/2014	RR	Generator to be Diesel Powered
26	26 32 13	ENGINE GENERATORS	Core Electric	263213-01-01	12/4/2014	12/9/2014	12/16/2014				400kW Diesel Generator
26	26 32 13	ENGINE GENERATORS	Core Electric	263213-01-02	12/22/2014	12/29/2014					
26	26 51 00	INTERIOR LIGHTING	Core Electric	265100-01-00	11/17/2014	11/18/2014	11/25/2014	12/16/2014	12/17/2014	RR	Add Chanes from VE meeting on 11/24/14
26	26 56 00	EXTERIOR LIGHTING	Core Electric	265600-01-00	11/17/2014	11/18/2014	11/25/2014				
		DIVISION 28 ELECTRONIC SAFETY AND SECURITY	Core Electric								
28	28 13 00	ACCESS CONTROL									
28	28 31 00	FIRE DETECTION AND ALARM	Core Electric	283100-01-00	12/1/2014	12/24/2014	1/2/2015	1/9/2015	1/9/2015	SS	
		DIVISION 31 EARTHWORK									
31	31 10 00	SITE CLEARING	BCI	311000-01-00	12/1/2014	12/1/2014	12/8/2014				
		DIVISION 32 EXTERIOR IMPROVMENTS									
32	32 01 90	OPERATION AND MAINTENANCE OF PLANTING	Schultz								
32	32 12 16	ASPHALT PAVING									
32	32 13 13	CONCRETE PAVING Mix Design	Araco Concrete	321313-01-00	11/17/2014	11/17/2014	11/24/2014	11/24/2014	11/25/2014	RR	No Water-Reducer Add Mixtures / Fly Ash.
32	32 13 13	CONCRETE PAVING Mix Design	Araco Concrete	321313-01-01	12/8/2014	12/9/2014	12/12/2014	12/10/2014	12/11/2014	A	
32	32 13 15	DECORATIVE CONCRETE PAVING									
32	32 13 73	CONCRETE PAVING JOINT SEALANTS									
32	32 14 14	PRECAST CONCRETE UNIT PAVING									

Division	Spec Section	Submittal Description	Subcontractor/Supplier	Submittal No.	Expected From Subs & Supplier	Actual to Architect / Eng	Expected from Architect / Eng	Actual from Architect / Eng	Returned to Subs. & Supplier	Action	Remarks
32	32 15 40	DECOMPOSED GRANITE SURFACING	Schultz								
32	32 15 43	DECORATIVE STONE BOULDERS	Schultz								
32	32 17 23	PAVEMENT MARKINGS									
	32 31 00	GATE OPERATOR									
32	32 31 16	METAL FENCES AND GATES	Schultz								
32	32 84 00	PLANTING IRRIGATION	Schultz								
32	32 91 00	PLANTING PREPARATION	Schultz								
32	32 91 13	MULCHING	Schultz								
32	32 92 00	PRAIRIE GRASSES AND WILDFLOWERS	Schultz								
32	32 93 00	PLANTS	Schultz								
		DIVISION 33 UTILITIES									
33	33 11 00	WATER UTILITY DISTRIBUTION PIPING	EZ Excavating	331100-01-00	9/23/2014	9/24/2014	10/1/2014	10/14/2014	10/15/2014	RR	
33	33 11 00	WATER UTILITY DISTRIBUTION PIPING (C900 Pipe)	EZ Excavating	331100-01-01	11/18/2014	11/18/2014	11/19/2014	11/24/2014	11/25/2014	A	
33	33 11 00	WATER UTILITY DISTRIBUTION PIPING (Thrust Block)	EZ Excavating	331100-02-00	11/19/2014	11/19/2014	11/26/2014	11/21/2014	11/25/2014	A	
33	33 11 00	WATER UTILITY DISTRIBUTION PIPING (Water Meter Pit Drawings)	EZ Excavating	331100-03-00	12/2/2014	12/9/2014	12/16/2014	12/16/2014	12/16/2014	AAN	
33	33 31 00	SANITARY UTILITY SEWERAGE PIPING	EZ Excavating	333100-01-00	9/23/2014	9/24/2014	10/1/2014	10/2/2014	10/7/2014	AAN	
33	33 31 00	SANITARY MANHOLE #3 BASED ON CIVIL CODE COMMENTS	EZ Excavating	333100-02-00	9/26/2014	9/26/2014	10/3/2014	10/14/2014	10/15/2014	A	
33	33 31 00	SANITARY MANHOLE #2 BASED ON ADDENDUM #2	EZ Excavating	333100-03-00	11/5/2014	11/5/2014	11/6/2014	11/6/2014	11/6/2014	A	Re-submitted per Addendum #2 Changes.
33	33 41 00	STORM UTILITY DRAINAGE PIPING	EZ Excavating	334100-01-00	9/23/2014	9/24/2014	10/1/2014	10/14/2014	10/15/2014	RR	
33	33 41 00	STORM UTILITY DRAINAGE PIPING	EZ Excavating	334100-01-01	10/24/2014	10/24/2014	10/31/2014	11/4/2014	11/4/2014	RR	No Water-Reducer Add Mixtures / Fly Ash.
33	33 41 00	STORM UTILITY DRAINAGE PIPING	EZ Excavating	334100-01-02	11/13/2014	11/14/2014	11/21/2014	11/18/2014	11/25/2014	A	
33	33 41 00	STORM UTILITY DRAINAGE PIPING MANHOLE 1B & B1.1	EZ Excavating	334100-04-00	11/11/2014	11/12/2014	11/19/2014	11/18/2014	11/19/2014	RR	Storm Manholes 1B and B1.1
33	33 41 00	STORM UTILITY DRAINAGE PIPING MANHOLE 1B & B1.1	EZ Excavating	334100-04-01	11/26/2014	11/26/2014	12/5/2014	12/9/2014	12/9/2014	AAN	
33	33 41 00	STORM UTILITY DRAINAGE PIPING CHANNEL DRAINAGE SYSTEMS	EZ Excavating	334100-02-00	11/26/2014	12/2/2014	12/9/2014	12/9/2014	12/9/2014	RR	
33	33 41 00	STORM UTILITY DRAINAGE PIPING RIP RAP	EZ Excavating	334100-03-00	11/26/2014	12/2/2014	12/9/2014	12/9/2014	12/9/2014	A	
33	33 41 00	BOX CULVERT BEDDING & BACKFILL	EZ Excavating	334100-05-00	12/10/2014	12/12/2014	12/12/2014	12/12/2014	12/12/2014	A	
		DIVISION 45 INDUSTRY SPECIFIC MANUFACTURING EQUIPMENT									
45	45 39 00	FABRICATED SHOP EQUIPMENT									

ID	Task Name	% Complete	Duration	Start	Finish	Gantt Chart																
						Jan 4, '15	Jan 11, '15	Jan 18, '15	Jan 25, '15	Feb 1, '15	Feb 8, '15	Feb 15, '15										
						S	T	T	S	M	W	F	S	T	T	S	M	W	F	S	T	T
1	Overall Project Schedule	58%	365 days	Tue 4/22/14	Mon 9/14/15																	
2	Pre-Construction	67%	239 days	Tue 4/22/14	Fri 3/20/15																	
3	Document Development	100%	104 days	Tue 4/22/14	Fri 9/12/14																	
10	GMP Establishment	100%	17 days	Mon 7/28/14	Tue 8/19/14																	
15	Project Permitting	50%	168 days	Wed 7/30/14	Fri 3/20/15																	
36	City of Louisville	100%	40 days	Mon 7/28/14	Fri 9/19/14																	
47	Project Management	67%	167 days	Wed 8/20/14	Thu 4/9/15																	
48	Bid Package #1	100%	43 days	Wed 8/20/14	Fri 10/17/14																	
66	Bid Package #2	100%	54 days	Tue 9/23/14	Fri 12/5/14																	
82	Submittals	59%	149 days	Mon 9/15/14	Thu 4/9/15																	
221	Project Construction	31%	223 days	Wed 9/3/14	Fri 7/10/15																	
222	Jobsite Setup	100%	78 days	Wed 9/3/14	Fri 12/19/14																	
228	Phase 1 Construction	29%	186 days	Thu 9/25/14	Thu 6/11/15																	
229	Sitework	84%	82 days	Thu 9/25/14	Fri 1/16/15																	
240	Core & Shell Construction	27%	115 days	Mon 11/17/14	Fri 4/24/15																	
241	Administration Building	39%	105 days	Mon 11/17/14	Fri 4/10/15																	
242	Pad Footing Formwork, Rebar & Prep	100%	10 days	Mon 11/17/14	Fri 11/28/14																	
243	Pad Footing Pour	100%	1 day	Mon 12/1/14	Mon 12/1/14																	
244	Stemwall Formwork, Rebar & Prep 1st	100%	4 days	Tue 12/2/14	Fri 12/5/14																	
245	Stemwall Formwork & Pour 1st	100%	1 day	Fri 12/5/14	Fri 12/5/14																	
246	Stemwall Formwork, Rebar & Prep 2nd	100%	2 days	Mon 12/8/14	Tue 12/9/14																	
247	Stemwall Formwork & Pour 2nd	100%	1 day	Wed 12/10/14	Wed 12/10/14																	
248	Water-Proofing & Insulation	100%	1 day	Fri 12/12/14	Fri 12/12/14																	
249	Backfill Foundation Interior Foundations	100%	5 days	Mon 12/8/14	Fri 12/12/14																	
250	Underground Plumbing	100%	7 days	Mon 12/8/14	Tue 12/16/14																	
251	Underground Plumbing Inspection	100%	0 days	Tue 12/16/14	Tue 12/16/14																	
252	Underground Electric	50%	7 days	Mon 12/8/14	Tue 12/16/14																	
253	Underground Electric Inspection	0%	0 days	Tue 12/16/14	Tue 12/16/14																	
254	Masonry Wall Construction (3days Weather Delay)	55%	30 days	Mon 12/15/14	Fri 1/23/15	[Gantt bar: 55% complete]																
255	Masonry Electrical Wall Rough-in (3days Weather Delay)	55%	30 days	Mon 12/15/14	Fri 1/23/15	[Gantt bar: 55% complete]																
256	Masonry Plumbing Wall Rough-in (3days Weather Delay)	55%	30 days	Mon 12/15/14	Fri 1/23/15	[Gantt bar: 55% complete]																
257	Backfill Exterior Foundations	65%	18 days	Mon 12/22/14	Wed 1/14/15	[Gantt bar: 65% complete]																
258	Pre-Cast Roof Panel Installation	0%	2 days	Mon 1/26/15	Tue 1/27/15	[Gantt bar: 0% complete]																
259	Structural Steel Erection	0%	5 days	Mon 1/26/15	Fri 1/30/15	[Gantt bar: 0% complete]																
260	Volcraft Joist Installation	0%	3 days	Mon 1/26/15	Wed 1/28/15	[Gantt bar: 0% complete]																
261	Deck Bearing & Detailing	0%	5 days	Tue 1/27/15	Mon 2/2/15	[Gantt bar: 0% complete]																

Task		Inactive Task	Manual Summary Rollup		External Milestone		Manual Progress	
Split		Inactive Milestone	Manual Summary		Deadline			
Milestone		Inactive Summary	Start-only		Critical			
Summary		Manual Task	Finish-only		Critical Split			
Project Summary		Duration-only	External Tasks		Progress			

ID	Task Name	% Complete	Duration	Start	Finish	Gantt Chart																
						Jan 4, '15	Jan 11, '15	Jan 18, '15	Jan 25, '15	Feb 1, '15	Feb 8, '15	Feb 15, '15										
						S	T	T	S	M	W	F	S	T	T	S	M	W	F	S	T	T
372	Sheetrock Walls	0%	5 days	Mon 4/13/15	Fri 4/17/15																	
373	Tape/Finish Walls	0%	6 days	Thu 4/16/15	Thu 4/23/15																	
374	Prime & Paint Walls	0%	5 days	Wed 4/22/15	Tue 4/28/15																	
375	Prime & Paint Exposed Ceilings	0%	3 days	Fri 4/24/15	Tue 4/28/15																	
376	MEP Above Ceiling Final Inspection	0%	0 days	Tue 4/28/15	Tue 4/28/15																	
377	Concrete Floor Finish's	0%	5 days	Wed 4/29/15	Tue 5/5/15																	
378	Plumbing Fixture Trim-out	0%	1 day	Wed 5/6/15	Wed 5/6/15																	
379	Final Paint	0%	3 days	Wed 5/6/15	Fri 5/8/15																	
380	Doors & Hardware	0%	2 days	Wed 5/6/15	Thu 5/7/15																	
381	BCI Pre-Punch Walk	0%	3 days	Fri 5/8/15	Tue 5/12/15																	
382	Punchlist	0%	2 days	Wed 5/13/15	Thu 5/14/15																	
383	Punchlist Completion & Verification	0%	5 days	Fri 5/15/15	Thu 5/21/15																	
384	Equipment Installation	0%	51 days	Thu 4/2/15	Thu 6/11/15																	
390	Phase 2 Construction	0%	70 days	Mon 4/6/15	Fri 7/10/15																	
405	Potential Schedule Delays	25%	16 days	Tue 7/28/15	Tue 8/18/15																	
414	CX & Project Close-Out	0%	19 days	Wed 8/19/15	Mon 9/14/15																	

Task		Inactive Task		Manual Summary Rollup		External Milestone		Manual Progress	
Split		Inactive Milestone		Manual Summary		Deadline			
Milestone		Inactive Summary		Start-only		Critical			
Summary		Manual Task		Finish-only		Critical Split			
Project Summary		Duration-only		External Tasks		Progress			

Comparison with Other Service Facilities

Location	Name of Facility	Property size (Acres/SF)	Cost per SF	Construction Cost
Louisville	CSF (w/ Land)	13.3 acres/47,343 SF	\$274	\$12,929,731
	CSF (w/o Land)		\$238	\$11,255,921
Parker	Parker Public Works Facility	13.7 acres/49,412 SF	\$255	\$ 12,600,000
Golden	Golden Public Works	14 acres/58,785 SF	\$225	\$ 13,200,000
Erie	Leon A. Wurl Service Center	16.6 acres/26,288 SF	\$342	\$ 9,000,000