

Rock Chalk Park - Infrastructure Report

December 2013

The following report is the sixth monthly report for the construction of infrastructure at Rock Chalk Park. The format follows the sections outlined in the development agreement with status updates and notable items complete. Attached is a copy of the spreadsheet city staff is using to track monthly quantities and totals which can be compared to the amounts approved in the development agreement. Highlighted items on the spreadsheet are estimated quantities complete for lump sum and grading items that will not be measurable until the project is complete; the estimate is from visual inspection.

The majority of work completed has been inspected and installed to City specifications. Quantities of work completed have been measured by the City and provided to Bliss Sports. There have been no major changes to the design, scope, functionality or amenities of the infrastructure plans. There have been some minor changes to work items and they are outlined in the change order section. Infrastructure improvements appear to be on or ahead of schedule. At the end of December \$6,611,921.31 of the \$12,265,168.65 total cost of infrastructure work was complete, approximately 54%.

City Staff has been meeting with Bliss Sports bi-weekly about infrastructure throughout the winter months. Staff was anticipating a 2013 year-end report from Bliss Sports and KU Endowment including updates on progress towards completion of remaining work items and pavement thickness information from coring done by Bliss Sports. Staff was notified at the March 18th project meeting that due to the complexities of completing a year-end report the city would not be receiving a report until the end of the project. Waiting on the Bliss Sports/KU Endowment report delayed the completion of this December report.

Upon receiving the November Infrastructure Report, the City Commission asked for clarification on information presented regarding work installed on November 30 that did not meet specifications. Attached to this report is a follow up memo from BG Consultants clarifying the location and information. City staff is recommending that the concrete pavement at this joint be removed and replaced at the contractors expense.

General

- No additional staking costs have been submitted by Bliss Sports.

Site Grading

- No additional grading work in December

- 100% of site strip, site excavation, compaction and rock excavation work is complete; all quantities are assumed to be plan quantity
- Topsoil replacement/fine grade work will be done at end of project

Retention Ponds

- Work to complete the detention ponds is 100% complete as of July 2013.
- Summary of Costs:
 - Cost per development agreement: \$156,250
 - Final construction cost: \$156,250

Natural Trails and Eight Lighted Tennis Courts

- No work has begun

Waterline

- Work to complete Waterline is 100% complete as of November 2013
- Summary of Costs:
 - Cost per development agreement: \$468,061.65
 - Final construction cost: \$462,522.49
- Two overruns on quantities:
 - 12" C900 DR14 Waterline: 12 extra feet, cost = \$442.44
 - 8" PVC C900 DR14 Waterline: 14 extra feet, cost = \$406
 - Fire Hydrant Assembly: 1 extra, cost = \$3300
- One underrun on quantities:
 - Flowable fill - an estimated 384.5 CY was assumed based on the unit price provided for the Sanitary Sewer flowable fill (\$70/CY). The 247 CY of flowable fill used for waterline the total cost would be \$17,290; an underrun cost of \$9620
- All other items were installed at 100% of plan quantities

Sanitary Sewer

- Work to complete Sanitary Sewer is 100% complete as of October 2013
- Summary of Costs:
 - Cost per development agreement: \$162,842.50
 - Final construction cost: \$174,312.50
- Two overruns on quantities:
 - Extra Depth manhole: 6.2 extra feet, cost = \$620
 - Flowable Fill - 155 CY extra, cost = \$10,850
- All other items were installed at 100% of plan quantities

Storm Sewer

- Work to complete Storm Sewer is 100% complete as of November 2013
- Summary of Costs:
 - Cost per development agreement: \$82,688.75
 - Final construction cost: \$82,688.75
- One additional 12" pipe and end section was installed to alleviate a drainage concern along Rock Chalk Drive; because there are no 12" pipe quantities in the plans, the item has been added to the Change Order section at the end.

Parking Lot Lights

- No additional work on parking lot lights in December.
- 80% of the Conduit for lights and 50% of the Conduit for Westar has been installed.

Landscaping

- No additional work on landscaping in December.
- Approximately 50% of the irrigation pipe has been installed for the parking lot islands

Rock Chalk Drive & George Williams

- No additional work on Rock Chalk Drive & George Williams Way in December.
- Unclassified excavation was 100% complete for this section in October and the full quantity 15,934 CY is assumed to be correct.
- Compacted fill was 100% complete for this section in November and the full quantity 1790 CY is assumed to be correct.
- There are several cracked panels in Rock Chalk Drive. Repairs will need to be made before the work is accepted.
- Treatment of subgrade is measured to be 95% complete. The development agreement had 12" fly ash & 4" AB3 for this work item. A change was made to 9" fly ash as recommended by the city - already on the approved public improvement plans. No unit cost has been provided by Bliss for this work, the quantity has been added to the Change Order section.

Overflow Parking Lot

- No work has begun

Parking Lot/Access Drives

- Concrete paving in parking lot began in September. 1050 SY of concrete paving was complete in December. Repairs have been made to some areas with edge chipping and spalling.

- Curb and gutter work in the parking lot began in November and 362.5 LF was installed in December; total of 7676.50 LF had been poured by end of year, approximately 50% complete.
- Concrete parking and bus lane work began in December. 3492 SY have been poured; approximately 48% of the total quantity.
- Due to cold weather the parking lot north of the KU track facility was not treated with fly ash before paving. The City and Bliss Sports agreed to use 12" crushed concrete thickness instead of fly ash. This quantity will be split out and listed as Change Order 6.

Rock Chalk Lane and Rock Chalk Parkway

- 291 SY of 8" NRDJ Pavement was constructed in December.

Chip and Seal County Road

- No work has begun

Rec Center Pad

- Work to complete the rec center pad is 100% complete as of July 2013.
- Summary of Costs:
 - Cost per development agreement: \$432,500
 - Final construction cost: \$432,500

Change Orders

- Change Order 1: Installed additional 1352 LF of 4" conduit for fiber
- Change Order 2: 600 LF of 3" conduit for security cameras (complete in August)
- Change Order 3: Treatment of subgrade 9" flyash on Rock Chalk Drive and George Williams Way
- Change Order 4: 12" HDPE storm sewer pipe
- Change Order 5: 12" CMP End Section.
- Change Order 6: 5998 SY 12" Subgrade Crushed Concrete in Parking Lot
- Unit costs for change orders 1 through 6 have not yet been provided by Bliss Sports.

**ESTIMATE OF WORK COMPLETE
FOR PERIOD: December 2013**

DATE: December 31, 2013

ESTIMATE No.: 6

PROJECT LOCATION: Rock Chalk Site Work

ESTIMATE ON LUMP SUM & GRADING ITEMS

ITEM	DESCRIPTION	UNIT	QUANTITY	CONTRACTED		COMPLETED TO DATE		Percent Complete	COMPLETED THIS PAY PERIOD	
				UNIT PRICE	AMOUNT	UNIT	AMOUNT		UNIT	AMOUNT
General		Unit	Quantity	Unit cost	Total					
1	Mobilization	LS	1	\$ 400,000.00	\$ 400,000.00	0.75	\$ 300,000.00	75%		\$ -
2	Construction Staking	LS	1	\$ 225,000.00	\$ 225,000.00	0.25	\$ 58,200.00	25%		\$ -
3	Seeding, Mulching & Fertilizing	AC	20	\$ 1,500.00	\$ 30,000.00	13.34	\$ 20,010.00	67%		\$ -
4	Utilities Connection fees and expenses	LS	1	\$ 55,000.00	\$ 55,000.00		\$ -	0%		\$ -
5	Traffic Control	LS	1	\$ 5,000.00	\$ 5,000.00		\$ -	0%		\$ -
6	Erosion & Sediment Control	LS	1	\$ 40,000.00	\$ 40,000.00	1.00	\$ 40,000.00	100%		\$ -
7	Legal Fees per Development Agreement	LS	1	\$ 167,836.00	\$ 167,836.00		\$ -	0%		\$ -
8	Loan origination fees for project financing	LS	1	\$ 150,000.00	\$ 150,000.00		\$ -	0%		\$ -
9	Loan interest for project financing	LS	1	\$ 309,515.00	\$ 309,515.00		\$ -	0%		\$ -
10	Construction Management fee 2.5% on \$11.5M	LS	1	\$ 287,500.00	\$ 287,500.00		\$ -	0%		\$ -
11	Professional Fees	LS	1	\$ 525,000.00	\$ 525,000.00		\$ -	0%		\$ -
General Sub Total					\$ 2,194,851.00		\$ 418,210.00	19%		\$ -

Site Grading		Unit	Quantity	Unit cost	Total					
12	Site strip	CY	32,000	\$ 2.25	\$ 72,000.00	32,000.00	\$ 72,000.00	100%		\$ -
13	Site Excavation	CY	180,000	\$ 2.25	\$ 405,000.00	180,000.00	\$ 405,000.00	100%		\$ -
14	Compaction	CY	160,000	\$ 1.10	\$ 176,000.00	160,000.00	\$ 176,000.00	100%		\$ -
15	Topsoil Replacement/fine grade	CY	10,000	\$ 10.00	\$ 100,000.00		\$ -	0%		\$ -
16	Rock Excavation	CY	9,750	\$ 10.00	\$ 97,500.00	9,750.00	\$ 97,500.00	100%		\$ -
Site Grading Sub Total					\$ 850,500.00		\$ 750,500.00	88%		\$ -

Retention Ponds		Unit	Quantity	Unit cost	Total					
17	Rock Excavation	CY	10,000	\$ 10.00	\$ 100,000.00	10,000.00	\$ 100,000.00	100%		\$ -
18	Dirt Excavation	CY	5,000	\$ 2.25	\$ 11,250.00	5,000.00	\$ 11,250.00	100%		\$ -
19	Faircloth skimmers	LS	3	\$ 10,000.00	\$ 30,000.00	3.00	\$ 30,000.00	100%		\$ -
20	Storm structure	LS	3	\$ 5,000.00	\$ 15,000.00	3.00	\$ 15,000.00	100%		\$ -
Retention Ponds Sub Total					\$ 156,250.00		\$ 156,250.00	100%		\$ -

Natural Trails and Eight Lighted Tennis Courts		Unit	Quantity	Unit cost	Total					
21	Tennis Courts	LS	1	\$ 640,000.00	\$ 640,000.00		\$ -	0%		\$ -
22	Retaining Walls at Tennis Courts	LS	1	\$ 170,000.00	\$ 170,000.00		\$ -	0%		\$ -
23	Natural trail 10' Approx. 5 = miles	SY	33,710	\$ 12.00	\$ 404,520.00		\$ -	0%		\$ -
Trails and Tennis Courts Sub Total					\$ 1,214,520.00		\$ -	0%		\$ -

**ESTIMATE OF WORK COMPLETE
FOR PERIOD: December 2013**

DATE: December 31, 2013

ESTIMATE No.: 6

PROJECT LOCATION: Rock Chalk Site Work

ESTIMATE ON LUMP SUM & GRADING ITEMS

ITEM	DESCRIPTION	UNIT	QUANTITY	CONTRACTED		COMPLETED TO DATE		Percent Complete	COMPLETED THIS PAY PERIOD	
				UNIT PRICE	AMOUNT	UNIT	AMOUNT		UNIT	AMOUNT
	Waterline	Unit	Quantity	Unit cost	Total					
22	Connect to Existing water line	1	1	\$ 750.00	\$ 750.00	1.00	\$ 750.00	100%		\$ -
23	12" C900 DR14 Water line	LF	7,642	\$ 36.87	\$ 281,760.54	7,654.00	\$ 282,202.98	100%		\$ -
24	8" PVC C900 DR14 Water line	LF	472	\$ 29.00	\$ 13,688.00	486.00	\$ 14,094.00	103%		\$ -
25	3" M.J. Gate Valve	EACH	2	\$ 500.00	\$ 1,000.00	2.00	\$ 1,000.00	100%		\$ -
26	6" M.J. Gate Valve	EACH	2	\$ 825.00	\$ 1,650.00	2.00	\$ 1,650.00	100%		\$ -
27	8" M.J. Gate Valve	EACH	2	\$ 1,300.00	\$ 2,600.00	2.00	\$ 2,600.00	100%		\$ -
28	12" MJ Gate Valve	EACH	33	\$ 1,500.00	\$ 49,500.00	33.00	\$ 49,500.00	100%		\$ -
29	Fire Hydrant Assembly	EACH	17	\$ 3,300.00	\$ 56,100.00	18.00	\$ 59,400.00	106%		\$ -
30	Private Fire Hydrant Assembly (Painted Red)	EACH	2	\$ 3,300.00	\$ 6,600.00	2.00	\$ 6,600.00	100%		\$ -
31	Flowable Fill	LS	1	\$ 26,910.00	\$ 26,910.00	0.64	\$ 17,222.40	64%		\$ -
32	2" Curb Stop with Auto Flusher and RIPRAP	LS	1	\$ 6,000.00	\$ 6,000.00	1.00	\$ 6,000.00	100%		\$ -
33	Water Meter Pits	LS	1	\$ 20,303.11	\$ 20,303.11	1.00	\$ 20,303.11	100%		\$ -
34	Concrete Encasement	LF	20	\$ 60.00	\$ 1,200.00	20.00	\$ 1,200.00	100%		\$ -
	Waterline Sub Total				\$ 468,061.65		\$ 462,522.49	99%		\$ -

	Sanitary Sewer	Unit	Quantity	Unit cost	Total					
35	8" SDR26 PVC granular embedment	LF	2,019	\$ 44.00	\$ 88,836.00	2,019.00	\$ 88,836.00	100%		\$ -
36	STD Manhole 4' DIA, 6' Depth	EACH	8	\$ 2,000.00	\$ 16,000.00	8.00	\$ 16,000.00	100%		\$ -
37	Extra Depth 4' DIA Manhole	VF	12.46	\$ 100.00	\$ 1,246.00	16.05	\$ 1,605.00	129%		\$ -
38	Drop Manhole 5' DIA 6' Depth	EACH	1	\$ 2,970.00	\$ 2,970.00	1.00	\$ 2,970.00	100%		\$ -
39	Extra Depth 5' DIA Manhole	VF	6.3	\$ 110.00	\$ 693.00	6.30	\$ 693.00	100%		\$ -
40	6" Service Line	EACH	4	\$ 500.00	\$ 2,000.00	4.00	\$ 2,000.00	100%		\$ -
41	Connect to Existing Manhole	EACH	1	\$ 500.00	\$ 500.00	1.00	\$ 500.00	100%		\$ -
42	Concrete Collars	EACH	7	\$ 570.00	\$ 3,990.00	7.00	\$ 3,990.00	100%		\$ -
43	Flowable Mortar Backfill	CY	403	\$ 70.00	\$ 28,210.00	560.00	\$ 39,200.00	139%		\$ -
44	Seed, Fertilize, Mulch and Erosion Netting	LS	1	\$ 5,500.00	\$ 5,500.00	1.00	\$ 5,500.00	100%		\$ -
45	Construction Staking	No Bid	No Bid	No Bid	No Bid					
46	Rip Rap Erosion Protection	LS	1	\$ 2,500.00	\$ 2,500.00	1.00	\$ 2,500.00	100%		\$ -
47	Concrete Encasement	LF	45	\$ 50.00	\$ 2,250.00	45.00	\$ 2,250.00	100%		\$ -
48	Impervious Ditch Check	LS	1	\$ 750.00	\$ 750.00	1.00	\$ 750.00	100%		\$ -
49	Polyurethane Manhole Lining	LS	1	\$ 7,397.50	\$ 7,397.50	1.00	\$ 7,397.50	100%		\$ -
	Sanitary Sewer Sub Total				\$ 162,842.50		\$ 174,191.50	107%		\$ -

**ESTIMATE OF WORK COMPLETE
FOR PERIOD: December 2013**

DATE: December 31, 2013

ESTIMATE No.: 6

PROJECT LOCATION: Rock Chalk Site Work

ESTIMATE ON LUMP SUM & GRADING ITEMS

ITEM	DESCRIPTION	UNIT	QUANTITY	CONTRACTED		COMPLETED TO DATE		Percent Complete	COMPLETED THIS PAY PERIOD	
				UNIT PRICE	AMOUNT	UNIT	AMOUNT		UNIT	AMOUNT
	Storm Sewer	Unit	Quantity	Unit cost	Total					
50	15" HDPE	LF	38	\$ 23.75	\$ 902.50	38.00	\$ 902.50	100%		\$ -
51	15" Reinforced Concrete Pipe	LF	79	\$ 24.75	\$ 1,955.25	79.00	\$ 1,955.25	100%		\$ -
52	18" HDPE	LF	87	\$ 24.00	\$ 2,088.00	87.00	\$ 2,088.00	100%		\$ -
53	18" Reinforced Concrete Pipe	LF	76	\$ 25.00	\$ 1,900.00	76.00	\$ 1,900.00	100%		\$ -
54	24" HDPE	LF	706	\$ 30.00	\$ 21,180.00	706.00	\$ 21,180.00	100%		\$ -
55	24" Reinforced Concrete Pipe	LF	38	\$ 32.00	\$ 1,216.00	38.00	\$ 1,216.00	100%		\$ -
56	30" HDPE	LF	19	\$ 39.00	\$ 741.00	19.00	\$ 741.00	100%		\$ -
57	48" Reinforced Concrete Pipe	LF	103	\$ 105.00	\$ 10,815.00	103.00	\$ 10,815.00	100%		\$ -
58	15" RCP End Section	EACH	1	\$ 450.00	\$ 450.00	1.00	\$ 450.00	100%		\$ -
59	30" RCP End Section	EACH	1	\$ 450.00	\$ 450.00	1.00	\$ 450.00	100%		\$ -
60	48" RCP End Section	EACH	2	\$ 1,900.00	\$ 3,800.00	2.00	\$ 3,800.00	100%		\$ -
61	5'x4' Curb Inlet	EACH	6	\$ 2,025.00	\$ 12,150.00	6.00	\$ 12,150.00	100%		\$ -
62	10'x4' Curb Inlet	EACH	3	\$ 3,252.00	\$ 9,756.00	3.00	\$ 9,756.00	100%		\$ -
63	4'x4' Junction Box	EACH	1	\$ 2,185.00	\$ 2,185.00	1.00	\$ 2,185.00	100%		\$ -
64	18" NOM DIA Rip Rap	SY	84	\$ 25.00	\$ 2,100.00	84.00	\$ 2,100.00	100%		\$ -
65	Flowable fill	LS	1	\$ 11,000.00	\$ 11,000.00	1.00	\$ 11,000.00	100%		\$ -
	Storm Sewer Sub Total				\$ 82,688.75		\$ 82,688.75	100%		\$ -

	Parking Lot Lights	Unit	Quantity	Unit cost	Total					
66	LED - Dual Fixtures	LS	1	\$ 120,000.00	\$ 120,000.00		\$ -	0%		\$ -
67	Pole Bases	LS	1	\$ 25,000.00	\$ 25,000.00		\$ -	0%		\$ -
68	Conduit	LS	1	\$ 40,000.00	\$ 40,000.00	0.80	\$ 32,000.00	80%		\$ -
69	Conduit Westar	LS	1	\$ 25,000.00	\$ 25,000.00	0.50	\$ 12,500.00	50%		\$ -
70	Conduit for Fiber	LF	1	\$ -	\$ -		\$ -	0%		\$ -
71	Electric Service - labor	LS	1	\$ 30,000.00	\$ 30,000.00		\$ -	0%		\$ -
	Parking Lot Lights Sub Total				\$ 240,000.00		\$ 44,500.00	19%		\$ -

	Landscaping	Unit	Quantity	Unit cost	Total					
72	Trees	EACH	450	\$ 425.00	\$ 191,250.00		\$ -	0%		\$ -
73	Shrubs	EACH	710	\$ 60.00	\$ 42,600.00		\$ -	0%		\$ -
74	Site Entry signs	LS	1	\$ 150,000.00	\$ 150,000.00		\$ -	0%		\$ -
75	Irrigation	LS	1	\$ 100,000.00	\$ 100,000.00	0.50	\$ 50,000.00	50%		\$ -

**ESTIMATE OF WORK COMPLETE
FOR PERIOD: December 2013**

DATE: December 31, 2013

ESTIMATE No.: 6

PROJECT LOCATION: Rock Chalk Site Work

ESTIMATE ON LUMP SUM & GRADING ITEMS

ITEM	DESCRIPTION	UNIT	QUANTITY	CONTRACTED		COMPLETED TO DATE		Percent Complete	COMPLETED THIS PAY PERIOD	
				UNIT PRICE	AMOUNT	UNIT	AMOUNT		UNIT	AMOUNT
76	Misc	LS	1	\$ 100,000.00	\$ 100,000.00		\$ -	0%		\$ -
	Landscaping Sub Total				\$ 583,850.00		\$ 50,000.00	9%		\$ -

Rock Chalk Drive & George Williams		Unit	Quantity	Unit cost	Total					
77	Unclassified excavation	CY	15,934	\$ 5.00	\$ 79,670.00	15,934.00	\$ 79,670.00	100%		\$ -
78	Compacted fill	CY	1,790	\$ 1.00	\$ 1,790.00	1,790.00	\$ 1,790.00	100%		\$ -
79	Site restoration	LS	1	\$ 5,000.00	\$ 5,000.00		\$ -	0%		\$ -
80	10" NRDJ Portland cement conc pave	SY	9,758	\$ 55.00	\$ 536,690.00	9,249.00	\$ 508,695.00	95%		\$ -
81	Type CG-1 Concrete curb & gutter	LF	6,257	\$ 16.00	\$ 100,112.00	6,096.00	\$ 97,536.00	97%		\$ -
82	4" x 5' Concrete sidewalk	SY	40	\$ 30.00	\$ 1,200.00		\$ -	0%		\$ -
83	6" x 10' Fiber reinforced conc sdwk	SY	4,078	\$ 40.00	\$ 163,120.00		\$ -	0%		\$ -
84	Access ramps	EACH	13	\$ 1,000.00	\$ 13,000.00		\$ -	0%		\$ -
85	Compaction tests street	LS	5	\$ 100.00	\$ 500.00	5.00	\$ 500.00	100%		\$ -
86	Construction Staking	No Bid	No Bid	No Bid	No Bid					
87	Seed, Fertilize & Mulch	LS	1	\$ 4,000.00	\$ 4,000.00		\$ -	0%		\$ -
88	Clearing, Grubbing & Tree Removal	LS	1	\$ 1,250.00	\$ 1,250.00	1.00	\$ 1,250.00	100%		\$ -
89	Treatment of subgrade 12" fly ash & 4"AB3	SY	11,825	\$ 9.33	\$ 110,327.25		\$ -	0%		\$ -
90	Erosion Control	LS	1	\$ 2,670.00	\$ 2,670.00		\$ -	0%		\$ -
91	Section Corner Monument Box	LS	1	\$ 1,000.00	\$ 1,000.00		\$ -	0%		\$ -
92	2" Conduit	LF	1,701	\$ 2.00	\$ 3,402.00		\$ -	0%		\$ -
93	4" Conduit	LF	997	\$ 2.00	\$ 1,994.00		\$ -	0%		\$ -
94	Traffic Control Signage	LS	1	\$ 500.00	\$ 500.00		\$ -	0%		\$ -
					\$ 1,026,225.25		\$ 689,441.00	67%		\$ -

Overflow Parking Lot		Unit	Quantity	Unit cost	Total					
95	Concrete access ramps	SY	464	\$ 50.00	\$ 23,200.00		\$ -	0%		\$ -
96	Lot Grading	LS	1	\$ 25,000.00	\$ 25,000.00		\$ -	0%		\$ -
97	Temporary Gravel Laydown	LS	1	\$ 20,000.00	\$ 20,000.00		\$ -	0%		\$ -
	Overflow Parking Lot Sub Total				\$ 68,200.00		\$ -	0%		\$ -

Parking Lot/ Access Drives		Unit	Quantity	Unit cost	Total					
98	Concrete parking lot	SY	44,356	\$ 44.00	\$ 1,951,664.00	41,775.00	\$ 1,838,100.00	94%	1,050	\$ 46,200.00
99	CG-1 curb and gutter	LF	15,338	\$ 18.00	\$ 276,084.00	7,676.50	\$ 138,177.00	50%	362.50	\$ 6,525.00
100	Concrete parking and Bus lane	SY	7,337	\$ 50.00	\$ 366,850.00	3,492.00	\$ 174,600.00	48%	3,492.00	\$ 174,600.00

**ESTIMATE OF WORK COMPLETE
FOR PERIOD: December 2013**

DATE: December 31, 2013

ESTIMATE No.: 6

PROJECT LOCATION: Rock Chalk Site Work

ESTIMATE ON LUMP SUM & GRADING ITEMS

ITEM	DESCRIPTION	UNIT	QUANTITY	CONTRACTED		COMPLETED TO DATE		Percent Complete	COMPLETED THIS PAY PERIOD	
				UNIT PRICE	AMOUNT	UNIT	AMOUNT		UNIT	AMOUNT
101	Fire lane / Access roads	SY	8,593	\$ 44.00	\$ 378,092.00		\$ -	0%		\$ -
102	Storm Sewer	LS	1	\$ 157,000.00	\$ 157,000.00	0.62	\$ 97,340.00	62%		\$ -
103	Trim Subgrade	SY	65,393	\$ 1.25	\$ 81,741.25	61,002.00	\$ 76,252.50	93%		\$ -
104	Treatment of subgrade - 12"Fly ash & 4" AB3	SY	65,425	\$ 9.33	\$ 610,415.25	46,887.00	\$ 437,455.71	72%		\$ -
Parking Lot/ Access Drives Sub Total						\$ 3,821,846.50		\$ 2,761,925.21	72%	\$ 227,325.00

Rock Chalk Lane and Rock Chalk Parkway		Unit	Quantity	Unit cost	Total					
105	Unclassified excavation	CY	3,017	\$ 5.00	\$ 15,085.00	3,017.00	\$ 15,085.00	100%		\$ -
106	Compacted fill	CY	2,920	\$ 1.00	\$ 2,920.00	2,920.00	\$ 2,920.00	100%		\$ -
107	Site restoration	LS	1	\$ 5,000.00	\$ 5,000.00		\$ -	0%		\$ -
108	8" NRDJ Portland cement	SY	9,524	\$ 50.00	\$ 476,200.00	8,254.00	\$ 412,700.00	87%	291.00	\$ 14,550.00
109	CG-1 curb and gutter	LF	5,109	\$ 16.00	\$ 81,744.00	4,561.00	\$ 72,976.00	89%		\$ -
110	6" x 10' Fiber rec path	SY	5,163	\$ 40.00	\$ 206,520.00		\$ -	0%		\$ -
111	4" x 5' Sidewalk	SY	195	\$ 30.00	\$ 5,850.00		\$ -	0%		\$ -
112	Access ramps	EACH	51	\$ 1,000.00	\$ 51,000.00		\$ -	0%		\$ -
113	Treatment of subgrade - 12" fly ash & 4"AB3	SY	10,800	\$ 9.33	\$ 100,764.00	9,192.00	\$ 85,761.36	85%		\$ -
					\$ 945,083.00		\$ 589,442.36	62%		\$ 14,550.00

Chip and Seal County Road		Unit	Quantity	Unit cost	Total					
114	Chip and Seal	SY	10,000	\$ 1.80	\$ 18,000.00		\$ -	0%		\$ -
Chip and Seal County Road Sub Total					\$ 18,000.00		\$ -	0%		\$ -

Rec Center Pad		Unit	Quantity	Unit cost	Total					
115	Rock Excavation	CY	18,000	\$ 10.00	\$ 180,000.00	18,000.00	\$ 180,000.00	100%		\$ -
116	Dirt Excavation	CY	10,000	\$ 2.25	\$ 22,500.00	10,000.00	\$ 22,500.00	100%		\$ -
117	Compaction	CY	8,500	\$ 1.10	\$ 9,350.00	8,500.00	\$ 9,350.00	100%		\$ -
118	Fly Ash 18"	SY	12,000	\$ 8.00	\$ 96,000.00	12,000.00	\$ 96,000.00	100%		\$ -
119	AB3 Entire building Pad	SY	20,100	\$ 4.00	\$ 80,400.00	20,100.00	\$ 80,400.00	100%		\$ -
120	AB3 Additional depth rock area	SY	8,000	\$ 5.50	\$ 44,000.00	8,000.00	\$ 44,000.00	100%		\$ -
					\$ 432,250.00		\$ 432,250.00	100%		\$ -

GRAND TOTAL					\$ 12,265,168.65		\$ 6,611,921.31	54%		\$ 241,875.00
--------------------	--	--	--	--	------------------	--	-----------------	-----	--	---------------

ESTIMATE OF WORK COMPLETE

FOR PERIOD: December 2013

DATE: December 31, 2013

ESTIMATE No.: 6

PROJECT LOCATION: Rock Chalk Site Work

ESTIMATE ON LUMP SUM & GRADING ITEMS

ITEM	DESCRIPTION	UNIT	QUANTITY	CONTRACTED		COMPLETED TO DATE		Percent Complete	COMPLETED THIS PAY PERIOD	
				UNIT PRICE	AMOUNT	UNIT	AMOUNT		UNIT	AMOUNT
	General Total	\$	418,210.00	19%	\$	2,194,851.00				
	Site Grading Total	\$	750,500.00	88%	\$	850,500.00				
	Retention Ponds Total	\$	156,250.00	100%	\$	156,250.00				
	Eight Lighted Tennis Courts Total	\$	-	0%	\$	1,214,520.00				
	Waterline Total	\$	462,522.49	99%	\$	468,061.65				
	Sanitary Sewer Total	\$	174,191.50	107%	\$	162,842.50				
	Storm Sewer Total	\$	82,688.75	100%	\$	82,688.75				
	Parking Lot Lights Total	\$	44,500.00	19%	\$	240,000.00				
	Landscaping Total	\$	50,000.00	9%	\$	583,850.00				
	Rock Chalk Drive and George Williams Way Total	\$	689,441.00	67%	\$	1,026,225.25				
	Overflow Parking Lot Total	\$	-	0%	\$	68,200.00				
	Parking Lot/ Access Drives Total	\$	2,761,925.21	72%	\$	3,821,846.50				
	Rock Chalk Lane and Rock Chalk Parkway Total	\$	589,442.36	62%	\$	945,083.00				
	Chip and Seal County Road Total	\$	-	0%	\$	18,000.00				
	Rec Center Pad Total	\$	432,250.00	100%	\$	432,250.00				
	Grand Total	\$	6,611,921.31	54%	\$	12,265,168.65				

CHANGE ORDERS:				CONTRACTED		COMPLETED TO DATE		Percent Complete	COMPLETED THIS PAY PERIOD	
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	UNIT	AMOUNT		UNIT	AMOUNT
1	4" Conduit	LF	10000		\$ -	7737	\$ -		\$ -	
2	3" Conduit for Security Cameras	LF	600		\$ -	600	\$ -		\$ -	
3	Treatment of subgrade 9" flyash RCD & GWW	SY	11825		\$ -	11211	\$ -	95%	\$ -	
4	12" HDPE Storm Pipe	LF	42		\$ -	42	\$ -	100%	\$ -	
5	12" CMP End Section	EA	1		\$ -		\$ -		\$ -	
6	Subgrade 12" Crushed Conc. Parking Lot	SY			\$ -	5998	\$ -		\$ -	
CHANGE ORDER TOTAL:					\$ -		\$ -		\$ -	

GRAND TOTAL					\$ 12,265,168.65		\$ 6,611,921.31		\$ 241,875.00
--------------------	--	--	--	--	-------------------------	--	------------------------	--	----------------------

**ESTIMATE OF WORK COMPLETE
FOR PERIOD: December 2013**

DATE: December 31, 2013

ESTIMATE No.: 6

PROJECT LOCATION: Rock Chalk Site Work

ESTIMATE ON LUMP SUM & GRADING ITEMS

ITEM	DESCRIPTION	UNIT	QUANTITY	CONTRACTED		COMPLETED TO DATE		Percent Complete	COMPLETED THIS PAY PERIOD	
				UNIT PRICE	AMOUNT	UNIT	AMOUNT		UNIT	AMOUNT

AMOUNT OF CURRENT CONTRACT: \$ 12,265,168.65

AMOUNT OF ORIGINAL CONTRACT: \$ 12,265,168.65

TOTAL WORK COMPLETED TO DATE: \$ 6,611,921.31

TOTAL PREVIOUS PAYMENTS: \$ -

AMOUNT COMPLETED THIS PAY PERIOD: \$ 241,875.00



TO: David Cronin, P.E.
City Engineer

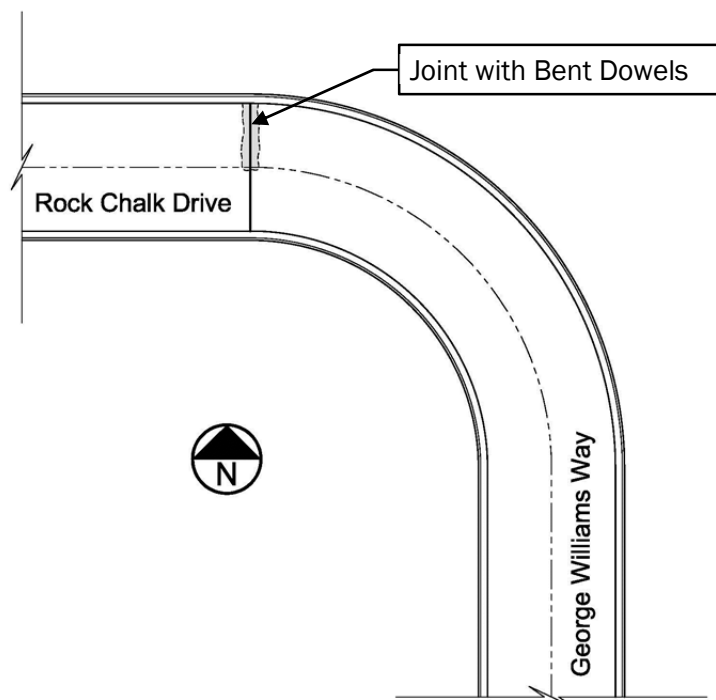
FROM: Jason Hoskinson, P.E., PTOE
BG Consultants, Inc.

DATE: January 23, 2014

RE: Rock Chalk Park Field Inspection Report
BG Project #13-1557L

The purpose of this memo is to clarify two items noted in the Field Report for the Rock Chalk Park dated November 30, 2013. A copy of the Field Report has been attached to this memo for your reference.

1. Regarding the second comment noted during the 9:00 AM time frame on page 1, the tie bars being used to tie the concrete pavement to the combined curb and gutter were epoxy coated bars. This specific comment was referring to the method which the Contractor was using to insert the tie bars into the drilled hole in the gutter. In some instances, an epoxy adhesive will be used to fill the drilled hole to help the tie bar adhere to the existing concrete. Using an epoxy adhesive enables tie bars to be inserted to much shallower embedment depths. In this instance, the Contractor was not using epoxy adhesive and was therefore notified that the embedment depth did not appear to be sufficient.
2. Regarding the picture on page 5 showing the bent dowel bars, this construction joint was located at the west end of the radius of the sweep style intersection of Rock Chalk Drive and George Williams Way. The dowels observed to be bent were in the westbound lane of travel between the centerline joint and the toe of the combined curb and gutter. The following graphic generally describes the location.





FIELD REPORT

Project: Rock Chalk Park
City & State: City of Lawrence
Job No.: 13-1557L
Contractor: Bliss Sports

CONSTRUCTION LOG: November 30, 2013

8:00 AM Arrived at project site. The Contractor is completing prep work to place the concrete pavement at the north end of George Williams Way and the tie-in to a private drive.

Work to be corrected includes:

- 1) Install tie bars for curb/gutter and pavement.
- 2) Install dowel baskets for contraction joints. The contractor does not have a joint layout for this work. This location was revised from a three leg intersection to a radius sweep.
- 3) The curb and gutter has already been placed but the curb joints do not match the pavement joints.
- 4) Clean headers at both ends of placement to a vertical face.
- 5) The construction joint at the Private Drive has dowels in the right lane and deformed tie bars in the left lane. Casey Stewart informed me that is how all the joints are and he would not change it (see photo). Some dowels are bent into the subgrade (see photos).

9:00 AM Concrete arrived at the project but the prep work has yet to be completed.

Continued to drill and drive 30" epoxy tie bars at 24" OC. Originally only 3" to 4" embedment. Contractor not using epoxy to install bars. Requested Buddy increase embedment. They drove bars another 2" to 3".

Set dowel baskets to the Contractor's layout (see photos). Asked the Contractor to mark location of baskets with paint for initial sawcut of the pavement. They did not have paint so they used metal pins. It appeared that several pins were moved during the concrete placement.

The Contractor began placing concrete for pavement. Hand vibrating concrete. Grade pins at CL for a normal crown.

Depth checks for 10" pavement satisfactory.

The private drive was 8" at the header.

The Contractor is not cutting the tie wire on the dowel baskets after staking the basket. Stated they have not cut the ties on any baskets for this project.

1:00 PM The Contractor also placed 8" concrete pavement entrance to the parking lot just west of the end of George Williams Way. No tie bars for the curb/gutter and pavement.

Inspector: Carlson

Hrs: 1 ½ RT
5 OT



PHOTO LOG:



Construction joint on George Williams Way.



Private Drive to Parking Lot Entrance
No tie bars to Curb and gutter.



No tie bars. Requested Contractor install epoxy coated bar to be drilled and grouted.



Placing concrete.



Bent dowel bars.



Began placing 10" concrete pavement.



Backing ready-mix truck over smooth dowels.



Dowel basket in the west bound lane.



Vibrating concrete.



Backed ready-mix truck over dowel bars.
Note deformed tie bars in Left Lane.