

**SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY  
SANFORD UNDERGROUND RESEARCH FACILITY  
LEAD, SOUTH DAKOTA**

**CHANGE ORDER  
SDSTA CONTRACT #2019-07**

This Change Order is made and entered into effective the **19th day of February, 2020**, by and between **Dean Kurtz Construction Company**, 1651 Rand Road, Rapid City, South Dakota, 57702 (“Contractor”) and the South Dakota Science and Technology Authority, 630 E. Summit Street, Lead, South Dakota, 57754 (“SDSTA” or “Owner”).

**RECITALS**

- A. On **June 20th, 2019**, Owner issued a Request for Proposals (“RFP”) for a construction manager at risk for the demolition of an existing building and the design of a new Maintenance Support Facility on Owner’s property (the “Project”). Contractor responded with a Proposal signed May 15, 2019 (“Contractor’s Proposal”).
- B. Both the RFP and Contractor’s Proposal call for a phased approach to the design and construction of the Project, made up of Phase 1 (Pre-Construction and Demolition), Phase 2 (Site Foundation Work), and Phase 3 (Construction Services).
- C. On June 20, 2019, Contractor and Owner entered into an Agreement for Construction – Construction Management at Risk Services for Maintenance Support Facility (including all Contract Documents and other documents included therein, the “Agreement for Construction”) for Phase 1 the Project.
- D. Article 13 of the General Conditions of the Agreement for Construction calls for amendments to be undertaken by way of Change Order.
- E. This Change Order is intended to amend the Agreement for Construction by revising the scope of the Work to add Phase 2 (Foundation Work) and Phase 3 (Construction Services) to the Agreement for Construction, with Phase 3 to include actual construction of the Project. This Change Order is also intended to (i) document the agreed-upon guaranteed maximum price (“GMP”) for Phases 2 and 3; (ii) establish any new or different insurance and bonding requirements for Phase 2 and Phase 3; and (iii) add the Drawings and Plans for the construction of the Project to the Contract Documents.

**AGREEMENT**

For and in consideration of the covenants and conditions contained herein, and for other good and valuable consideration, the receipt and sufficiency of which is acknowledged by each party hereto, the parties AGREE as follows:

1. Article I, item 5 of the Agreement for Construction is hereby amended by adding a Payment Bond in the form attached as Exhibit 1 and a Performance Bond in the form attached as Exhibit 1, both of which Bonds are required for Phases 2 and 3 of the Work. This amendment does not relieve the Contractor or the sureties under the existing bonds of any liability thereunder.
2. Article I, item 7 of the Agreement for Construction is hereby amended by establishing insurance requirements for Phases 2 and 3 of the Work as described on Exhibit 2 hereto.
3. Article I, item 9 of the Agreement for Construction is hereby amended by amending Exhibit C to add the Scope of Work shown on Exhibit 3 hereto.
4. Article I of the Agreement for Construction is hereby amended by adding “Drawings or Plans” in the form attached hereto as Exhibit 4 to the Contract Documents.
5. The Contract Time, date of Substantial Completion, date of Final Completion, and Construction Completion Schedule are set out in Exhibit 4 hereto provided, however, that the Contractor shall not commence work on Phase 2 or Phase 3 until the Owner issues a Notice to Proceed. The Owner may elect to issue a single Notice to Proceed for both Phase 2 and Phase 3 or a separate Notice to Proceed for each of Phase 2 and Phase 3.
6. Anything elsewhere in the Agreement for Construction to the contrary notwithstanding, Contractor agrees, either through subcontractors or by self-performance or some combination thereof, to complete construction of the Project for a maximum guaranteed price (“GMP”) of Five Million One Hundred Thirty-Six Thousand Four Hundred Twenty-Four Dollars and No Cents (\$5,136,424.00). The basis for the GMP is more fully described on Exhibit 5, attached hereto and incorporated herein by this reference. The GMP consists of the Contractor’s fee for Phases 2 and 3 plus the cost to complete the Project. The Contractor guarantees the Contract Sum shall not exceed Five Million, Five Hundred Forty-Eight Thousand, Two Hundred Eighty-Seven Dollars and No Cents (\$5,713,039.66), which is the sum of the GMP plus the amount payable under the Agreement for Construction as originally written. If the cost to complete construction of the Project exceeds the GMP, the Contractor shall bear and be responsible for such costs without reimbursement or additional compensation from the Owner. Any savings from the GMP shall accrue to the benefit of the Owner. The GMP is subject to addition or deletion by Change Order as provided in the Contract Documents.
7. The Contract Sum is hereby amended to be Five Million, Five Hundred Forty-Eight Thousand, Two Hundred Eighty-Seven Dollars and No Cents (\$5,713,039.66).
8. Section 5.14.1 of the General Conditions is hereby amended to add the State of South Dakota and the Homestake Indemnified Parties to the parties to be indemnified. As used herein, the term “Homestake Indemnified Parties” means Barrick Gold Corporation, Homestake Mining Company of California, and any person, partnership, joint venture, corporation or other form of enterprise which directly or indirectly controls, or is controlled by or is under common control with either of Barrick Gold Corporation or Homestake Mining Company of California; the term also includes any visitor, contractor, director, officer, employee, agent, or consultant of Barrick Gold Corporation or Homestake Mining Company of California.

9. Unless otherwise defined in this Change Order, defined terms used herein shall have the meaning given them in the Agreement for Construction.

10. Except as specifically amended hereby, the terms of the Agreement for Construction shall remain in full force and effect as originally written.

South Dakota Science and Technology  
Authority

Dean Kurtz Construction Company

By: \_\_\_\_\_

By: \_\_\_\_\_

Its: \_\_\_\_\_

Its \_\_\_\_\_

Date of Signature: \_\_\_\_\_

Date of Signature: \_\_\_\_\_

**Exhibit 1**  
**Payment Bond and Performance Bond - Phase 2 and Phase 3**

**Exhibit 2**  
**Insurance Requirements – Phase 2 and Phase 3**

A. Minimum Insurance: Prior to commencement of Work, Contractor will procure and maintain the following insurance:

1. Commercial general liability insurance with limits not less than \$5 million per occurrence. Such insurance shall name as additional insureds Barrick Gold Corporation, Homestake Mining Company of California, and the Affiliates of Barrick and Homestake and each of its and their representatives; the South Dakota Science and Technology Authority, its officers, agents, employees and representatives. All additional insureds coverage must include current and completed operations.
2. Business automobile liability insurance with limits not less than \$1 million per occurrence. Such insurance shall include coverage for owned, non-owned and hired automobiles.
3. Errors & omissions liability coverage with limits not less than \$1 million per claim (where applicable.)
4. Workers compensation insurance as required by South Dakota law.

B. Special Provisions Applicable to All Coverages: Self-insured retentions and/or deductibles greater than \$50,000.00 must be declared and approved by the Authority.

C. Special Provisions Applicable to the Commercial General Liability Insurance: The commercial general liability policy shall:

1. Provide contractual liability coverage at least as broad as Insurance Services Office (ISO) form CG 00 01 12 07, or its equivalent.
2. Waive the insurer's right of subrogation against the Homestake Indemnified Parties.
3. State that it is primary and non-contributory and shall apply without consideration for other policies carried by the Homestake Indemnified Parties.
4. Include a provision that the insurer will not raise any coverage defense based on the statutory immunity of the State of South Dakota, the South Dakota Science and Technology Authority, or the Homestake Indemnified Parties.

D. Notice of Cancellation or Material Change in Coverage/Condition: The Contractor or Project Sponsor must provide 30 days' notice of cancellation/material change, reserving the right to obtain replacement coverage if Contractor does not and deducting the cost from the contract total.

E. Evidence of Insurance: Prior to commencement of Work, the Contractor or Project Sponsor shall furnish the South Dakota Science and Technology Authority with certificates evidencing compliance with the insurance requirements above. Contractor agrees to provide complete, certified copies of all required insurance policies if requested by the Authority.

F. Acceptability of Insurers: Insurance shall be placed with insurers acceptable to the South Dakota Science and Technology Authority.

G. Subcontractors: Contractor shall require subcontractors to provide insurance that complies with the requirements stated herein.

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**Exhibit 3**  
**Amendment to Scope of Work**

The Scope of Work is amended to add the following:

1. Construction management services for Phase 2 and Phase 3. The purpose of this scope of work modification is to initiate Phases 2 and 3 of the Agreement for Construction. The Contractor shall prepare and manage the bid package for Phase 2 and Phase 3, advertise for bids, evaluate bids and award bids or elect to self-perform some or all of the work as the Contractor deems appropriate and in conformity with the Contract Documents, and supervise and other manage the construction of Phase 2 and Phase 3 of the Project. The Contractor shall allow the Owner to observe all aspects of the bidding process, as well as of the construction of Phase 2 and Phase 3 of the Project. With the Owner's written consent, the Contractor may combine Phase 2 and Phase 3 into one bid package.
2. Contractor, through the use of subcontractors, by self-performance, or by some combination of the two, shall furnish and install all the materials and labor and perform all the work for completion of the Project in conformity with the Drawings or Plans and the Contract Documents. The parties acknowledge Williams and Associates, Inc. shall act as Architect pursuant to the Contract Documents.
3. The Contract Time, date of Substantial Completion, date of Final Completion, and Construction Completion Schedule are as follows:
  - a. Contract/start date: March 2, 2020
  - b. Substantial Completion Punch List – March 2, 2021
  - c. Final Completion – March 16, 2021

**Exhibit 4**  
**Drawings and Plans**

**Exhibit 5**  
**GMP Justification**



<b>Project name</b>	SURF Maintenance Support Facility - 90% Design Estimate GMP
<b>Document</b>	90% Design GMP
<b>Estimator</b>	Kasey Kurtz
<b>Labor rate table</b>	Labor RC SD 2015
<b>Equipment rate table</b>	Equipment
<b>Job size</b>	21573 SF
<b>Duration</b>	12 mo
<b>Project</b>	CMAR
<b>Report format</b>	Sorted by 'Group phase/Phase' 'Detail' summary



Group	Phase	Phase	Description	Takeoff Quantity	Labor Cost/Unit	Labor Amount	Material Price	Material Amount	Vendor Name	Sub Amount	Sub Name	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount
<b>01-0000.000</b>			<b>GENERAL CONDITIONS</b>													
	01-1110.110		Permits													
		01-1110.110	Building Permits by LS	1.00 ls	-	-	/ls			-		-	-	7,550.00 /ls	7,550	7,550
	01-1120.210		Site Supervision													
		01-1120.210	Superintendent	52.00 wk	1,400.00 /wk	72,800	-	-		-		/wk	-	-	-	72,800
	01-1120.510		Surveys													
		01-1120.510	Survey & Layouts	1.00 ls	500.00 /ls	500	500.00 /ls	500		6,500	Arleth	-	-	-	-	7,500
	01-1120.710		Documents													
		01-1120.710	Submittal Exchange	1.00 ls	-	-	5,000.00 /ls	5,000		-		-	-	-	-	5,000
		01-1120.710	Quality Control Plan	1.00 ls	2,500.00 /ls	2,500	500.00 /ls	500		-		-	-	-	-	3,000
		01-1120.710	Printing and Shipping	1.00 ls	850.00 /ls	850	1,200.00 /ls	1,200		-		-	-	-	-	2,050
	01-1120.810		Photos													
		01-1120.810	Project Photos by GC	12.00 mo	300.00 /mo	3,600	100.00 /mo	1,200		-		-	-	-	-	4,800
	01-1121.010		Communications													
		01-1121.010	Cell Phone - Monthly Fee	12.00 mo	-	-	135.00 /mo	1,620		-		-	-	-	-	1,620
	01-1130.110		Offices & Job Trailers													
		01-1130.110	Office Trailer	12.00 mo	150.00 /mo	1,800	-	-		-		200.00 /mo	2,400	-	-	4,200
		01-1130.110	Tool Trailer	12.00 mo	75.00 /mo	900	-	-		-		165.00 /mo	1,980	-	-	2,880
	01-1130.210		Job Trailer Misc.													
		01-1130.210	Office Trailer - Mob & Demob	2.00 ea	-	-	-	-		-		500.00 /ea	1,000	-	-	1,000
	01-1130.510		Utilities													
		01-1130.510	MDU Fees	1.00 ea	-	-	0.00 /ea	0		5,000		-	-	-	-	5,000
		01-1130.510	Temporary Toilets (Two)	12.00 mo	-	-	350.00 /mo	4,200		-		-	-	-	-	4,200
	01-1140.210		Testing - Materials													
		01-1140.210	Testing - Material	1.00 ls	-	-	-	-		10,000		-	-	-	-	10,000
	01-1150.110		Winter Conditions													
		01-1150.110	Winter Conditions	4.00 mo	1,000.00 /mo	4,000	2,000.00 /mo	8,000		-		-	-	-	-	12,000
	01-1150.210		Snow Removal													
		01-1150.210	Snow Plowing	1.00 ls	150.00 /ls	150	442.26 /ls	442		-		-	-	-	-	592
	01-1150.310		Temp Heat Buildings													
		01-1150.310	Temp Heat per month	4.00 mo	500.00 /mo	2,000	486.00 /mo	1,944		-		-	-	-	-	3,944
	01-1160.110		Punch List													
		01-1160.110	Punch List by LS	1.00 ls	1,500.00 /ls	1,500	1,516.32 /ls	1,516		-		-	-	-	-	3,016
	01-1160.410		Project Clean Up													
		01-1160.410	Weekly Cleaning	52.00 wk	150.00 /wk	7,800	63.18 /wk	3,285		-		-	-	-	-	11,085
		01-1160.410	Final Cleaning	1.00 ls	-	-	-	-		4,000		-	-	-	-	4,000
		01-1160.410	Dumpster Rental/Pick up	12.00 mo	-	-	550.00 /mo	6,600		-		-	-	-	-	6,600
	01-1180.210		Fire Protection													
		01-1180.210	Fire Extinguishers	8.00 ea	10.00 /ea	80	31.59 /ea	253		-		-	-	-	-	333
	01-1180.310		OSHA & Safety													
		01-1180.310	Safety Officer	52.00 wk	1,300.00 /wk	67,600	-	-		-		-	-	-	-	67,600
		01-1180.310	Safety Meeting Time	375.00 mh	10.00 /mh	3,750	-	-		-		-	-	-	-	3,750
	01-1180.510		Construction Traffic Control													
		01-1180.510	Traffic Cones	30.00 ea	-	-	8.10 /ea	243		-		-	-	-	-	243
<b>01-8100.000</b>			<b>DURATION &amp; RENTED EQUIPMENT</b>													
	01-8100.020		Trucks													
		01-8100.020	by Month... Jobsite Pickup Truck	12.00 mo	0.00 /mo	0	715.00 /mo	8,580		-		412.50 /mo	4,950	-	-	13,530
	01-8100.030		Material Lift													
		01-8100.030	by Month... Lull and Operator	8.00 mo	1,218.00 /mo	9,744	163.00 /mo	1,304		-		/mo	-	-	-	11,048
<b>03-0000.000</b>			<b>CONCRETE</b>													
	03-0010.120		Concrete Budget- Column-Pier													
		03-0010.120	Sub by CY - Concrete Piers - Sonotube	10.00 cy	-	-	-	-		1,185		-	-	-	-	1,185
	03-0010.155		Concrete Budget- Site													
		03-0010.155	Sub by LF - Concrete Curbs by LF (\$30/lf)	423.00 lf	-	-	-	-		12,690		-	-	-	-	12,690
	03-1113.102		Forms- Footing													
		03-1113.102	Continuous Footing Forms < 12"	1,286.00 sf	2.00 /sf	2,572	0.51 /sf	682		-		-	-	-	-	3,254
		03-1113.102	Continuous Footing Forms < 12"	550.00 sf	2.00 /sf	1,100	0.51 /sf	292		-		-	-	-	-	1,392
		03-1113.102	Continuous Footing Forms < 12"	92.00 sf	2.00 /sf	184	0.51 /sf	49		-		-	-	-	-	233
		03-1113.102	Step Footing Forms	36.00 sf	5.00 /sf	180	0.76 /sf	29		-		-	-	-	-	209
		03-1113.102	Misc Connector Footigs	1.00 allow	2,500.00 /allow	2,500	2,500.00 /allow	2,625		-		-	-	-	-	5,125
		03-1113.102	Pier Footing Forms	436.00 sf	2.20 /sf	959	0.76 /sf	347		-		-	-	-	-	1,306
	03-1113.120		Forms- S-O-G													
		03-1113.120	S-O-G Edge Form 6"	500.00 lf	1.00 /lf	500	0.55 /lf	291		-		-	-	-	-	791



Group	Phase	Phase	Description	Takeoff Quantity	Labor Cost/Unit	Labor Amount	Material Price	Material Amount	Vendor Name	Sub Amount	Sub Name	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount
	03-1113.120		<b>Forms- S-O-G</b>													
		03-1113.120	S-O-G Edge Form 10"	350.00 lf	1.17 /lf	409	0.81 /lf	298		-		-	-	-	-	708
		03-1113.120	S-O-G Edge Form 10"	500.00 lf	1.17 /lf	585	0.81 /lf	426		-		-	-	-	-	1,011
		03-1113.120	S-O-G Thickened Edge Form	710.20 sf	1.89 /sf	1,342	1.01 /sf	754		-		-	-	-	-	2,096
		03-1113.120	S-O-G Construction Joints 6"	350.00 lf	1.59 /lf	557	0.55 /lf	204		-		-	-	-	-	760
		03-1113.120	S-O-G Construction Joints 6"	500.00 lf	1.89 /lf	945	0.55 /lf	291		-		-	-	-	-	1,236
		03-1113.120	S-O-G Construction Joints 10"	350.00 lf	2.22 /lf	777	0.81 /lf	298		-		-	-	-	-	1,075
		03-1113.120	S-O-G Construction Joints 10"	500.00 lf	2.22 /lf	1,110	0.81 /lf	426		-		-	-	-	-	1,536
	03-1113.122		<b>Forms- Slab on Metal Deck</b>													
		03-1113.122	Metal Edge Form	160.00 lf	0.50 /lf	80	1.97 /lf	331		-		-	-	-	-	411
		03-1113.122	Const. Joint at Metal Deck	60.00 lf	0.50 /lf	30	2.58 /lf	162		-		-	-	-	-	192
	03-1113.162		<b>Forms- Structural Stair</b>													
		03-1113.162	Stair Edge Form	16.90 sf	6.00 /sf	101	0.68 /sf	12		-		-	-	-	-	114
		03-1113.162	Riser Edge Form	20.10 sf	6.00 /sf	121	0.77 /sf	16		-		-	-	-	-	137
	03-1113.180		<b>Forms- Wall Forms</b>													
		03-1113.180	Panel Form System 0-4'	580.00 sf	2.50 /sf	1,450	1.00 /sf	609		-		-	-	-	-	2,059
		03-1113.180	Panel Form System 0-4'	440.86 sf	2.50 /sf	1,102	1.00 /sf	463		-		-	-	-	-	1,565
		03-1113.180	Panel Form System 4-8'	6,064.00 sf	3.10 /sf	18,798	1.00 /sf	6,367		-		-	-	-	-	25,166
		03-1113.180	Panel Form System 4-8'	2,150.00 sf	3.10 /sf	6,665	1.00 /sf	2,258		-		-	-	-	-	8,922
	03-1113.192		<b>Forms- Wall Access</b>													
		03-1113.192	Wall Bulkhead Forms	24.00 sf	6.00 /sf	144	1.20 /sf	30		-		-	-	-	-	174
	03-1113.310		<b>Forms- Strip &amp; Oil</b>													
		03-1113.310	Strip & Oil Footing Forms	436.00 sf	0.27 /sf	118	-	-		-		-	-	-	-	118
		03-1113.310	Strip & Oil Footing Forms	128.00 sf	0.27 /sf	35	-	-		-		-	-	-	-	35
		03-1113.310	Strip & Oil Wall Forms	6,064.00 sf	0.27 /sf	1,637	-	-		-		-	-	-	-	1,637
		03-1113.310	Strip & Oil Wall Forms	580.00 sf	0.30 /sf	174	-	-		-		-	-	-	-	174
		03-1113.310	Strip & Oil Wall Forms	440.86 sf	0.27 /sf	119	-	-		-		-	-	-	-	119
		03-1113.310	Strip & Oil Wall Forms	2,150.00 sf	0.27 /sf	581	-	-		-		-	-	-	-	581
		03-1113.310	Strip & Oil SOG Form	469.00 sf	0.27 /sf	127	-	-		-		-	-	-	-	127
		03-1113.310	Strip & Oil SOG Form	145.95 sf	0.27 /sf	39	-	-		-		-	-	-	-	39
		03-1113.310	Strip & Oil SOG Form	710.20 sf	0.27 /sf	192	-	-		-		-	-	-	-	192
		03-1113.310	Strip & Oil SOG Form	2,000.00 sf	0.27 /sf	540	-	-		-		-	-	-	-	540
		03-1113.310	Strip & Oil Slab Edge Form	147.40 sf	0.27 /sf	40	-	-		-		-	-	-	-	40
	03-1113.620		<b>Keyway</b>													
		03-1113.620	Horizontal Wall Keyway 4"	379.00 lf	0.50 /lf	190	0.44 /lf	176		-		-	-	-	-	366
	03-1113.630		<b>Vapor Barrier</b>													
		03-1113.630	12 Mill VB	12,951.00 sf	0.20 /sf	2,590	0.20 /sf	2,720		-		-	-	-	-	5,310
		03-1113.630	12 Mill VB	4,319.00 sf	0.20 /sf	864	0.20 /sf	907		-		-	-	-	-	1,771
		03-1113.630	12 Mill VB	22,836.00 sf	0.20 /sf	4,567	0.20 /sf	4,796		-		-	-	-	-	9,363
	03-1113.635		<b>Rigid Insulation</b>													
		03-1113.635	ThermoMass System	3,032.00 sf	2.00 /sf	6,064	4.51 /sf	14,358		-		-	-	-	-	20,422
		03-1113.635	Rigid Foundation Insulation 2.0"	3,360.00 sf	0.50 /sf	1,680	0.90 /sf	3,175		-		-	-	-	-	4,855
	03-1113.710		<b>Set Steel in Concrete</b>													
		03-1113.710	Set Bollards	40.00 ea	70.00 /ea	2,800	31.84 /ea	1,274		-		-	-	-	-	4,074
	03-1113.720		<b>Expansion Joints</b>													
		03-1113.720	Asphalt Sheets 1/2"	909.00 sf	0.37 /sf	336	2.53 /sf	2,412		-		-	-	-	-	2,748
		03-1113.720	Sealant At Expansion Joint	1,800.00 lf	0.37 /lf	666	0.70 /lf	1,315		-		-	-	-	-	1,981
	03-1513.110		<b>Waterstop</b>													
		03-1513.110	Waterstop Hydratite	450.00 lf	0.65 /lf	293	5.00 /lf	2,363		-		-	-	-	-	2,655
	03-2100.010		<b>Rebar- Buy &amp; Sub</b>													
		03-2100.010	Sub by Ton - Rebar Furnish & Install	52.00 ton	450.00 /ton	23,400	0.00	0	All Metal	-		-	-	-	-	23,400
	03-3000.100		<b>Concrete- Buy</b>													
		03-3000.100	3500 psi Concrete	147.36 cy	-	-	130.00 /cy	20,114		-		-	-	-	-	20,114
		03-3000.100	3500 psi Concrete	28.26 cy	-	-	130.00 /cy	3,857		-		-	-	-	-	3,857
		03-3000.100	3500 psi Concrete	4.74 cy	-	-	130.00 /cy	647		-		-	-	-	-	647
		03-3000.100	4000 psi Concrete	321.38 cy	-	-	135.00 /cy	45,555		-		-	-	-	-	45,555
		03-3000.100	4000 psi Concrete	66.71 cy	-	-	135.00 /cy	9,455		-		-	-	-	-	9,455
		03-3000.100	4000 psi Concrete	28.09 cy	-	-	135.00 /cy	3,981		-		-	-	-	-	3,981
		03-3000.100	4000 psi Concrete	501.88 cy	-	-	135.00 /cy	71,142		-		-	-	-	-	71,142
		03-3000.100	4000 psi Concrete	7.20 cy	-	-	135.00 /cy	1,020		-		-	-	-	-	1,020
		03-3000.100	4000 psi Concrete	5.47 cy	-	-	135.00 /cy	775		-		-	-	-	-	775
		03-3000.100	4000 psi Concrete	26.68 cy	-	-	135.00 /cy	3,781		-		-	-	-	-	3,781
		03-3000.100	4000 psi Concrete	1.50 cy	-	-	135.00 /cy	213		-		-	-	-	-	213
		03-3000.100	4000 psi Concrete	107.23 cy	-	-	135.00 /cy	15,199		-		-	-	-	-	15,199
		03-3000.100	Self Consolidating Concrete	112.30 cy	-	-	170.00 /cy	20,045		-		-	-	-	-	20,045



Group	Phase	Phase	Description	Takeoff Quantity	Labor Cost/Unit	Labor Amount	Material Price	Material Amount	Vendor Name	Sub Amount	Sub Name	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount
	03-3000.110		<b>Concrete- Admixtures</b>													
		03-3000.110	Superplasticizers	321.38 cy	-	-	6.00 /cy	2,025		-		-	-	-	-	2,025
		03-3000.110	Superplasticizers	66.71 cy	-	-	6.00 /cy	420		-		-	-	-	-	420
		03-3000.110	Superplasticizers	28.09 cy	-	-	6.00 /cy	177		-		-	-	-	-	177
		03-3000.110	Superplasticizers	112.30 cy	-	-	6.00 /cy	707		-		-	-	-	-	707
		03-3000.110	Superplasticizers	147.36 cy	-	-	6.00 /cy	928		-		-	-	-	-	928
		03-3000.110	Superplasticizers	501.88 cy	-	-	6.00 /cy	3,162		-		-	-	-	-	3,162
	03-3000.150		<b>Place- Wall Footings</b>													
		03-3000.150	Pump Place Wall Footings	28.26 cy	28.00 /cy	791	-	-		-		22.00 /cy	622	-	-	1,413
		03-3000.150	Pump Place Wall Footings	4.74 cy	28.00 /cy	133	-	-		-		22.00 /cy	104	-	-	237
	03-3000.160		<b>Place- Pier Footings</b>													
		03-3000.160	Pump Place Column/Pier Ftgs	28.26 cy	28.00 /cy	791	-	-		-		22.00 /cy	622	-	-	1,413
	03-3000.230		<b>Place- S-O-G</b>													
		03-3000.230	Truck Place Slab on Grade	321.38 cy	28.00 /cy	8,999	-	-		-		-	-	-	-	8,999
		03-3000.230	Pump Place Slab on Grade	66.71 cy	28.00 /cy	1,868	-	-		-		22.00 /cy	1,468	-	-	3,335
		03-3000.230	Pump Place Slab on Grade	147.36 cy	28.00 /cy	4,126	-	-		-		22.00 /cy	3,242	-	-	7,368
		03-3000.230	Pump Place Slab on Grade	501.88 cy	28.00 /cy	14,053	-	-		-		22.00 /cy	11,041	-	-	25,094
	03-3000.250		<b>Place- S-O-M-D</b>													
		03-3000.250	Pump Place Slab on Metal Deck	107.23 cy	35.00 /cy	3,753	-	-		-		22.00 /cy	2,359	-	-	6,112
	03-3000.260		<b>Place- Walls</b>													
		03-3000.260	Truck Place Walls	5.47 cy	30.00 /cy	164	-	-		-		-	-	-	-	164
		03-3000.260	Truck Place Walls	26.68 cy	30.00 /cy	800	-	-		-		-	-	-	-	800
		03-3000.260	Pump Place Walls	112.30 cy	28.00 /cy	3,144	-	-		-		22.00 /cy	2,471	-	-	5,615
		03-3000.260	Pump Place Walls	7.20 cy	28.00 /cy	202	-	-		-		22.00 /cy	158	-	-	360
	03-3000.340		<b>Place- Stair Conc</b>													
		03-3000.340	Pump Place Stair Concrete	1.50 cy	35.00 /cy	53	-	-		-		-	-	-	-	53
		03-3000.340	Place Steel Pan Stair Concrete	28.09 cy	35.00 /cy	983	-	-		-		-	-	-	-	983
	03-3500.110		<b>Finish Flatwork</b>													
		03-3500.110	Finish- Hard Trowel	12,951.00 sf	1.25 /sf	16,189	0.05 /sf	648		-		-	-	-	-	16,836
		03-3500.110	Finish- Hard Trowel	4,319.00 sf	1.25 /sf	5,399	0.05 /sf	216		-		-	-	-	-	5,615
		03-3500.110	Finish- Hard Trowel	22,836.00 sf	1.25 /sf	28,545	0.10 /sf	2,284		-		-	-	-	-	30,829
		03-3500.110	Finish- Hard Trowel	4,321.00 sf	1.25 /sf	5,401	0.05 /sf	216		-		-	-	-	-	5,617
		03-3500.110	Finish- Top of Wall & Curb	379.00 sf	0.90 /sf	341	0.05 /sf	19		-		-	-	-	-	360
		03-3500.110	Finish- Top of Wall & Curb	56.95 sf	0.90 /sf	51	0.05 /sf	3		-		-	-	-	-	54
		03-3500.110	Finish- Top of Wall & Curb	220.43 sf	0.90 /sf	198	0.05 /sf	11		-		-	-	-	-	209
		03-3500.110	Finish- Top of Wall & Curb	144.05 sf	0.90 /sf	130	0.05 /sf	7		-		-	-	-	-	137
	03-3500.120		<b>Finish Stairs</b>													
		03-3500.120	Finish Stairs	3,025.00 sf	1.50 /sf	4,537	0.01 /sf	24		-		-	-	-	-	4,562
		03-3500.120	Finish Stairs	32.60 sf	1.50 /sf	49	0.01 /sf	0		-		-	-	-	-	49
		03-3500.120	Abrasive Grits @ Stairs	3,000.00 sf	2.35 /sf	7,050	0.63 /sf	1,896		-		-	-	-	-	8,946
		03-3500.120	Abrasive Grits @ Stairs	30.00 sf	2.35 /sf	71	1.63 /sf	49		-		-	-	-	-	119
		03-3500.120	Set Stair Nosing's	50.00 ea	7.00 /ea	350	18.95 /ea	948		-		-	-	-	-	1,298
		03-3500.120	Set Stair Nosing's	6.00 ea	7.00 /ea	42	150.00 /ea	900		-		-	-	-	-	942
	03-3500.160		<b>Crack Control</b>													
		03-3500.160	Saw Cut S-O-G	2,880.00 lf	0.95 /lf	2,736	0.25 /lf	720		-		-	-	-	-	3,456
		03-3500.160	Saw Cut S-O-M-D	360.00 lf	1.70 /lf	612	0.25 /lf	90		-		-	-	-	-	702
	03-3900.170		<b>Curing</b>													
		03-3900.170	Liquid Curing Compounds	12,951.00 sf	0.05 /sf	648	0.10 /sf	1,360		-		-	-	-	-	2,007
		03-3900.170	Liquid Curing Compounds	4,319.00 sf	0.05 /sf	216	0.10 /sf	454		-		-	-	-	-	669
		03-3900.170	Liquid Curing Compounds	6,064.00 sf	0.05 /sf	303	0.10 /sf	637		-		-	-	-	-	940
		03-3900.170	Liquid Curing Compounds	22,836.00 sf	0.05 /sf	1,142	0.10 /sf	2,398		-		-	-	-	-	3,540
		03-3900.170	Liquid Curing Compounds	580.00 sf	0.05 /sf	29	0.10 /sf	61		-		-	-	-	-	90
		03-3900.170	Liquid Curing Compounds	440.86 sf	0.05 /sf	22	0.10 /sf	46		-		-	-	-	-	68
		03-3900.170	Liquid Curing Compounds	2,150.00 sf	0.05 /sf	108	0.10 /sf	226		-		-	-	-	-	333
		03-3900.170	Liquid Curing Compounds	4,321.00 sf	0.05 /sf	216	0.10 /sf	454		-		-	-	-	-	670
	03-3900.180		<b>Hardener</b>													
		03-3900.180	Seal Floors	22,836.00 sf	0.55 /sf	12,560	0.35 /sf	8,392		-		-	-	-	-	20,952
		03-3900.180	Seal Floors	4,321.00 sf	0.55 /sf	2,377	0.06 /sf	286		-		-	-	-	-	2,662
04-0000.000			<b>MASONRY</b>													
	04-0000.110		<b>Budget - CMU Block</b>													
		04-0000.110	Sub by SF - Block Wall - Partition Wall 8"	3,870.00 sf	-	-	-	-		25,000		-	-	-	-	25,000
05-0000.000			<b>METALS</b>													
	05-1205.005		<b>Structural Steel Buy &amp; Sub</b>													
		05-1205.005	Structural Steel and Reinforcing	ls	-	-	-	-		160,000	All Metal	-	-	-	-	160,000

2019-07





Group	Phase	Phase	Description	Takeoff Quantity	Labor Cost/Unit	Labor Amount	Material Price	Material Amount	Vendor Name	Sub Amount	Sub Name	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount
	05-1205.005		<b>Structural Steel Buy &amp; Sub</b>													
		05-1205.005	Connector Structure and Erection	1	-	-	- /ls	62,000		32,000	All Metal	-	-	-	-	94,000
	05-5820.120		<b>Misc Steel</b>													
		05-5820.120	Bollards Material	40.00	ea		115.67 /ea	4,627		-		-	-	-	-	4,627
06-0000.000			<b>ROUGH CARPENTRY</b>													
	06-1110.110		<b>Floor Framing</b>													
		06-1110.110	Floor Framing KD - 2 x 8 x 8'	8.00	ea	8.14 /ea		65	0.49 /bf	44		-	-	-	-	109
		06-1110.110	Floor Framing KD - 2 x 8 x 16'	2.00	ea	15.28 /ea		31	0.49 /bf	22		-	-	-	-	52
	06-1623.210		<b>Subfloor</b>													
		06-1623.210	Subfloor Sheathing AdvanTech T&G 23/32"	64.00	sf	0.86 /sf		55	0.53 /sf	36		-	-	-	-	91
06-2000.000			<b>FINISH CARPENTRY</b>													
	06-4110.120		<b>Cabinets - Custom</b>													
		06-4110.120	Cabinets and Solid Surface Sills	1.00	ls	10,500.00 /ls		10,500	42,000.00 /ls	42,000		-	-	-	-	52,500
07-0000.000			<b>THERMAL &amp; MOIST PROTECT</b>													
	07-4113.100		<b>Roofing Metal Panel</b>													
		07-4113.100	Snow Bars - Double Rail Pipe Snow Bars	824.00	lf	4.25 /lf		3,500	4.25 /lf	3,500		-	-	-	-	7,000
	07-4113.150		<b>Roofing- Sheet Metal</b>													
		07-4113.150	Sub by SF - Terne Coated Steel Standing	637.26	sf	-		-	-	-		3,951	-	-	-	3,951
	07-4619.200		<b>Siding- Steel</b>													
		07-4619.200	Steel Corrugated Siding 22 ga	1,640.00	sf	0.58 /sf		948	2.15 /sf	3,769		-	-	-	-	4,717
		07-4619.200	Steel Siding - Inside Corners	20.00	lf	0.87 /lf		17	5.05 /lf	108		-	-	-	-	125
		07-4619.200	Steel Siding - Outside Corners	60.00	lf	0.87 /lf		52	5.05 /lf	324		-	-	-	-	376
		07-4619.200	Steel Siding - Screw Fasteners	2,460.00	ea	-		-	0.05 /ea	134		-	-	-	-	134
		07-4619.200	Steel Siding - Closure Strips	328.00	lf	0.87 /lf		284	1.20 /lf	421		-	-	-	-	705
	07-5300.100		<b>Roofing- Membrane</b>													
		07-5300.100	Sub by LS - Membrane Roofing	1.00	ls	-		-	-	-		2,500	-	-	-	2,500
	07-6200.140		<b>Flashing- Terne Coated</b>													
		07-6200.140	Terne Coated Parapet Flashing	150.00	lf	0.87 /lf		130	3.79 /lf	608		-	-	-	-	738
		07-6200.140	Terne Coated Drip Edge	150.00	lf	0.87 /lf		130	3.79 /lf	608		-	-	-	-	738
08-0000.000			<b>DOORS &amp; WINDOWS</b>													
	08-1100.300		<b>Doors- HM Doors &amp; Frames</b>													
		08-1100.300	HM Doors	64.00	ea	45.00 /ea		2,880	1,435.94 /ea	91,900	NCS	-	-	-	-	94,780
		08-1100.300	Install HM Single Frames - A Label	64.00	ea	45.00 /ea		2,880	0.00 /ea	0	NCS	-	-	-	-	2,880
	08-1400.200		<b>Doors- Wood</b>													
		08-1400.200	Wood Door Interior Plain	20.00	ea	100.00 /ea		2,000	0.00 /ea	0	NCS	-	-	-	-	2,000
	08-3300.100		<b>Doors- Overhead</b>													
		08-3300.100	Overhead Doors for Loading Dock 10x14	1.00	ea	-		-	-	-		2,300	-	-	-	2,300
		08-3300.100	Overhead Doors 12x14	1.00	ea	-		-	-	-		2,300	-	-	-	2,300
		08-3300.100	Overhead Doors 14x14	3.00	ea	-		-	-	-		6,900	-	-	-	6,900
	08-7100.090		<b>Finish Hardware by LS</b>													
		08-7100.090	Purchase Finish Hardware by Lump Sum	52.00	ea	45.00 /ea		2,340	0.00 /ea	0	NCS	-	-	-	-	2,340
	08-8100.100		<b>Glazing- Glass</b>													
		08-8100.100	Windows and Entry Door	1.00	ls	-		-	-	-		76,650	-	-	-	76,650
09-0000.000			<b>FINISHES</b>													
	09-2000.050		<b>Drywall Sub</b>													
		09-2000.050	Sub by LS - Framing & Drywall	1.00	ls	-		-	-	-		161,090	-	-	-	161,090
	09-3100.200		<b>Tile- Ceramic Mosaics</b>													
		09-3100.200	Tile Walls in BRs	1,000.00	sf	-		-	-	-		5,500	-	-	-	5,500
	09-6200.000		<b>FLOORING</b>													
		09-6200.000	Entry Mat	2.00	ea				/ea			3,500	-	-	-	3,500
	09-6500.100		<b>Flooring- Resilient</b>													
		09-6500.100	LVT	1,781.00	sf	1.55 /sf		2,761	3.37 /sf	6,422		-	-	-	-	9,183
		09-6500.100	SV1 Sheet Linoleum	1,271.00	sf	1.25 /sf		1,589	3.16 /sf	4,296		-	-	-	-	5,885
	09-6500.110		<b>Flooring- Cove Base</b>													
		09-6500.110	Vinyl Cove Base 6"	2,227.00	lf	1.35 /lf		3,006	1.89 /lf	4,504		-	-	-	-	7,510
	09-6800.100		<b>Flooring - Carpet</b>													
		09-6800.100	Sub by SY - Carpet Tile Heavy Use	275.00	sy	-		-	-	-		14,025	-	-	-	14,025
	09-7216.110		<b>Wall Covering Vinyl</b>													
		09-7216.110	FRP Wall Paneling	257.00	sf	2.50 /sf		643	2.39 /sf	614		-	-	-	-	1,257
	09-9123.200		<b>Painting- Interior</b>													
		09-9123.200	Painting	1.00	ls	-		-	-	-		67,700	-	-	-	67,700
10-0000.000			<b>SPECIALTIES</b>													
	10-1400.120		<b>Signs - Interior</b>													
		10-1400.120	Signs - Floor ID	6.00	ea	15.00 /ea		90	75.00 /ea	450	Combined	-	-	-	-	540



Group	Phase	Phase	Description	Takeoff Quantity	Labor Cost/Unit	Labor Amount	Material Price	Material Amount	Vendor Name	Sub Amount	Sub Name	Equip Price	Equip Amount	Other Price	Other Amount	Total Amount
	10-2113.100		<b>Toilet Partition - Ceil</b>													
		10-2113.100	Toilet Partition Ceiling Hung - Plastic Laminate	2.00 ea	100.01 /ea	200	993.00 /ea	1,986	Combined	-		-	-	-	-	2,186
	10-2113.204		<b>Urinal Screens Ceiling</b>													
		10-2113.204	Urinal Screen Ceiling Set - Plastic Laminate	1.00 ea	43.33 /ea	43	0.00 /ea	0	Combined	-		-	-	-	-	43
	10-2613.100		<b>Corner Guards</b>													
		10-2613.100	SS Corner Guards	40.00 ea	-	-	63.40 /ea	2,536	Combined	-		-	-	-	-	2,536
	10-2813.200		<b>Toilet Access by each</b>													
		10-2813.200	Curtain Rods	4.00 ea	15.00 /ea	60	709.75 /ea	2,839	Combined	-		-	-	-	-	2,899
		10-2813.200	Soap Dispensers	6.00 ea	20.00 /ea	120	0.00 /ea	0	Combined	-		-	-	-	-	120
		10-2813.200	Towel Dispensers	6.00 ea	20.00 /ea	120	0.00 /ea	0	Combined	-		-	-	-	-	120
		10-2813.200	Waste Receptacles	4.00 ea	20.00 /ea	80	0.00 /ea	0	Combined	-		-	-	-	-	80
		10-2813.200	Bath Tissue Dispenser Single	6.00 ea	20.00 /ea	120	0.00 /ea	0	Combined	-		-	-	-	-	120
		10-2813.200	Bath Mirror Large	4.00 ea	15.00 /ea	60	0.00 /ea	0	Combined	-		-	-	-	-	60
		10-2813.200	Mop Hooks	2.00 ea	15.00 /ea	30	0.00 /ea	0	Combined	-		-	-	-	-	30
		10-2813.200	Towel Hooks	8.00 ea	15.00 /ea	120	0.00 /ea	0	Combined	-		-	-	-	-	120
		10-2813.200	Shower Seat	2.00 ea	20.00 /ea	40	0.00 /ea	0	Combined	-		-	-	-	-	40
		10-2813.200	Shelf	4.00 ea	15.00 /ea	60	0.00 /ea	0	Combined	-		-	-	-	-	60
	10-2813.600		<b>Grab Bars</b>													
		10-2813.600	Grab Bars - Toilet	21.00 ea	25.99 /ea	546	0.00 /ea	0	Combined	-		-	-	-	-	546
	10-4413.100		<b>Fire Cabinets</b>													
		10-4413.100	Fire Extinguisher Cabinet Recessed	4.00 ea	43.33 /ea	173	446.50 /ea	1,786	Combined	-		-	-	-	-	1,959
	10-4416.200		<b>Fire Control/Suppression</b>													
		10-4416.200	Fire Extinguisher CO2 10 lbs	17.00 ea	8.67 /ea	147	0.00 /ea	0	Combined	-		-	-	-	-	147
	10-5100.100		<b>Lockers Metal</b>													
		10-5100.100	Lockers and Benches Installed	35.00 ea			/ea			21,691	Combined	-	-	-	-	21,691
11-0000.000			<b>EQUIPMENT</b>													
	11-1300.100		<b>Dock Levelers</b>													
		11-1300.100	Rubber Dock Bumpers 24"	1.00 ea	8.67 /ea	9	350.00 /ea	350		-		-	-	-	-	359
		11-1300.100	Dock Locks (Manual)	1.00 ea	8.67 /ea	9	2,500.00 /ea	2,500		-		-	-	-	-	2,509
		11-1300.100	Dock Air Seals	1.00 ea	1,126.65 /ea	1,127	950.00 /ea	950	Chalfant	-		-	-	-	-	2,077
		11-1300.100	Dock Pit Mount Levelers	1.00 ea	208.83 /ea	209	4,043.52 /ea	4,044	Blue Giant	-		-	-	-	-	4,252
13-0000.000			<b>SPECIAL CONSTRUCTION</b>													
	13-3419.110		<b>Metal Building - Purchase, Freight, Warantee</b>													
		13-3419.110	Building Purchase, Insulation System, Liner Panel, Freight, Seamer Rental	21,573.00 sf	-	-	19.02 /sf	410,223	B&C	-		0.12 /sf	2,500	-	-	412,723
		13-3419.110	Erect and Install Building and Insulation System	21,573.00 sf	5.55 /sf	119,730	-	-		-		1.00 /sf	21,573	-	-	141,303
		13-3419.110	10 Ton Bridge Crane Installed, Load Tested, Start-up	1.00 ea	-	-	-	-		84,938	B&C	-	-	-	-	84,938
14-0000.000			<b>CONVEYING SYSTEMS</b>													
	14-2000.100		<b>Elevator Hydraulic</b>													
		14-2000.100	Sub by LS - Elevators	1.00 ls	-	-	-	-		50,000	Allowance	-	-	-	-	50,000
21-0000.000			<b>FIRE SUPPRESSION</b>													
	21-1300.120		<b>Sprinkler Systems</b>													
		21-1300.120	Sub by LS - Sprinklers Subcontract	1.00 ls	-	-	-	-		88,960	Western States	-	-	-	-	88,960
22-0000.000			<b>PLUMBING</b>													
	22-1000.000		<b>Plumbing</b>													
		22-1000.000	Sub by LS - Plumbing Sub	1.00 ls	-	-	-	-		466,850	Action	-	-	-	-	466,850
23-0000.000			<b>HVAC</b>													
	23-0100.110		<b>HVAC</b>													
		23-0100.110	Sub by LS - HVAC subcontract	1.00 ls	-	-	-	-		422,900	Action	-	-	-	-	422,900
		23-0100.110	Additional Unit Heaters	2.00 ea	-	-	-	-		12,000	Action	-	-	-	-	12,000
26-0000.000			<b>ELECTRICAL</b>													
	26-0000.100		<b>Electrical Sub</b>													
		26-0000.100	Sub by LS - Electrical Subcontract	1.00 ls	-	-	-	-		444,021	Muth	-	-	-	-	444,021
31-0000.000			<b>EARTHWORK</b>													
	31-0010.110		<b>Sitework Sub</b>													
		31-0010.110	Sub by LS - Sitework	1.00 ls	-	-	-	-		198,136	IHE	-	-	-	-	198,136
32-0000.000			<b>EXTERIOR IMPROVEMENTS</b>													
	32-3200.110		<b>Site Landscaped Walls</b>													
		32-3200.110	Soil Nail Wall	2,350.00 sf	-	-	18	-		188,000	Budget	-	-	-	-	188,000
	32-9219.110		<b>Lawns &amp; Grasses</b>													
		32-9219.110	Sub by SF - Hydro seeding	22,750.00 sf	-	-	-	-		12,513	BH Hydro	-	-	-	-	12,513

2019-07



Estimate Totals

Description	Amount	Totals	Hours	Rate	Cost Basis	Cost per Unit	Percent of Total
Labor	554,918		14,725.318 hrs			25.723 /SF	10.80%
Material	976,293					45.255 /SF	19.01%
Subcontract	2,592,800					120.187 /SF	50.48%
Equipment	56,489		2,080.000 hrs			2.619 /SF	1.10%
Other	7,550					0.350 /SF	0.15%
<b>From the Spreadsheet</b>	<b>4,188,050</b>	<b>4,188,050</b>				<b>194.134 /SF</b>	<b>81.54%</b>
SD Sales Tax	43,933			4.500 %	C	2.036 /SF	0.86%
City Sales Tax @ 2 %	19,526			2.000 %	C	0.905 /SF	0.38%
Labor Burden	233,066			42.000 %	C	10.804 /SF	4.54%
Small Tools	10,273			0.200 %	T	0.476 /SF	0.20%
<b>Tax and Burden</b>	<b>306,798</b>	<b>4,494,848</b>				<b>208.355 /SF</b>	<b>5.97%</b>
Subcontractor Textura	5,704			0.220 %	C	0.264 /SF	0.11%
GC Textura Fee	3,000				L	0.139 /SF	0.06%
Bonds Class B	31,255				B	1.449 /SF	0.61%
Bid Package Markups	159,525			10.000 %	C	7.395 /SF	3.11%
Construction Manager Fee	333,868			6.500 %	T	15.476 /SF	6.50%
Builders Risk Insurance < \$4M	5,496			0.107 %	T	0.255 /SF	0.11%
Excise Tax	102,728			2.000 %	T	4.762 /SF	2.00%
<b>Total Markups</b>	<b>641,576</b>	<b>5,136,424</b>				<b>238.095 /SF</b>	<b>12.49%</b>
Contingency					T		100.00%
<b>Total</b>		<b>5,136,424</b>				<b>238.095 /SF</b>	