



Brown & Root

November 11, 2022

Susan Lang
Finance Director
City of Port Lavaca
Port Lavaca, TX 77979

Subject: B&R RFP-353-008 – Revision 1
Project Location: Port Lavaca Animal Control Center
Project Title: Renovations, New Building, Kennel Enclosure

Dear Ms. Lang

Enclosed is our firm fixed Pre-Priced proposal for the above subject RFP.

Work to be performed under the terms and conditions of BuyBoard Contract 581-19. Pricing is based on 2022 RS Means Line-item values with CCI and contract Coefficient multipliers per the contract. Any additional items of work requested by the City, not included in this scope, will be handled as a change order.

Base Bid - Kennel area and building renovations	\$ 271,152.00
Alternate Add #1: Construct metal building, relocate incinerator and associated work	\$ 102,216.00
Alternate Add #2: Enclose kennel front and back with CMU walls and OH doors	<u>\$ 168,990.00</u>
Total all items	\$ 542,358.00

The work will take 120 calendar days to complete from NTP.

NOTE: Mobilization and work activities will start once required materials are received and fabrications performed to minimize disruption and down time to the facility. The base bid portion of work will require 4 weeks to complete once materials are received and fabrication is complete. If the Alternate Wall and/or Building are accepted and performed in conjunction with the Base Bid Scope of work, the total time of work performance will be 8 weeks. The proposal is valid for 30 days.

Please direct any questions to Dan Croasmun at (832) 503-6292.

Sincerely,

Daniel Croasmun
Project General Manager

Attachments: Proposed Scope of Work
UPB Line Item Take Off

RE: Port Lavaca – Animal Control – Renovation – Revision 1

RFP NO: 1000353-008

Scope of work

Perform the renovations of the animal control building as detailed below:

Expanded scope of work

Base Bid:

- **Masonry:**
 - Remove the 3-2'x2' hollow metal windows located on the exterior CMU walls of the office area. Remove the CMU block and saw cut joints as needed to create a full block infill repair without using any cut or segments of blocks. No partial block repairs will be allowed.
 - Remove the 4'x4' exhaust fan located on the rear wall of the building. Remove the CMU block and saw cut joints as needed to create a full block infill repair without using any cut or segments of blocks. No partial block repairs will be allowed.
 - Remove the 2'3" x 4' louver located on the exterior front wall. Remove the CMU block and saw cut joints as needed to create a full block infill repair without using any cut or segments of blocks. No partial block repairs will be allowed.
 - Fill all holes from old and/or previous fasteners in the CMU walls with mortar and fill voids in the mortar along the tops of the wall where metal roof flashing intersects.
 - Remove six of the existing hollow metal doors and frames at door locations 101A, 101B, 104, 105A, 106A, and 107. Replace the doors and frames with new 16 gauge knock down frames and 20-gauge hollow metal doors. Install new LCN door closures, zinc coated hinges with bearings and weather stripping and thresholds to match current hardware set up on each door. Reinstall the locksets from the old doors onto the new doors.
- **Fencing / Metals:**
 - Install new fence post, gate post, top rail, bottom rail, and chain link give gates on southwest corner as shown on sheet A1.0. Install new chain link meshing on repair area and 3 strands of barb wire. All materials to be galvanized and matching in size gauge and thickness.
 - Install new galvanized framing and expanded metal with ½" openings under the roof vent along the top of the roof panels to prevent entry of birds and other vermin.
 - Remove the current 2"x4" metal panels on the outer 20 kennel doors and replace with expanded metal that has ½" openings. Frame for and install a cylindrical round knob latch set at the top of these 20 doors and remove the existing gate latch currently used. Remove any ¼" wire cloth that has been installed previously on the interior 20 pen doors as directed. Relocate and adjust the door open pull lines on the 20 interior pen doors so that the pull line is far enough away from the door that the line does not interfere with the doors.

- Provide new galvanized framing and ½" expanded metal panels with ½" openings above existing kennels, around all beams, and roof purlins to prevent birds from entering the kennel area. No greater than ½" opening shall be allowed.
- Fabricate new frame for the existing cat quarantine door. Reinstall the door and new frame to the CMU wall using galvanized anchors.
- **Painting**
 - Remove flaking and peeling paint from CMU walls. Pressure wash all exterior CMU surfaces using Trisodium Phosphate and 3,000 psi pressure washer. All CMU mortar joints that are currently cracked are to be caulked with acrylic latex sealant once walls are cleaned
 - Prep and paint all galvanized gutters, galvanized downspout, and galvanized fascia.
 - Prime all new CMU and paint all exterior CMU wall surfaces. Where CMU wall infills occur, ensure interior side of wall is block filled and painted as well. Prep procedures and material usage per the paint manufacture, Sherwin Williams project procedure manual attached.
 - Prep all kennel floors, walls, and wire cages to receive new epoxy coating material. Preparation to include grinding, sanding, etching, stripping, and pressure washing the concrete, CMU and metal components to ensure proper epoxy adhesion. Follow all protocol by Sherwin Williams as to preparation of the materials and have Sherwin Williams perform site visit during perpetration to ensure proper guidelines are being followed. All epoxy coatings per Sherwin Williams Protocol and material specification, per the mill thicknesses they call out for
 - Contact Lee Pullen (361)-484-4138, 1301 N. Virginia St, Port Lavaca TX. For specific material and protocol for new coatings and site visits during project to ensure proper compliance with Sherwin Williams procedures and protocols.
 - Paint all new metal doors and frames.
- **Metal Doors:**
 - Supply and install 7-welded seam hollow metal door frames and hollow metal doors to replace the doors being replaced on the existing structure. Frames are to have 3-dimples on each side for bolting the frame to the CMU wall opening. Install all new door hardware including hinges, door closures, thresholds, door sweeps and weather stripping. Reinstall locksets removed from the old doors
- **Electrical**
 - Remove, clean and reinstall the 9 existing ceiling mounted fans.

Alternate Building:

- Fabricate and construct new 12' x 20' metal building to be erected to house existing incinerator.
- Install new coil rollup door to incinerator building.
- Install new 3'6" x 7' hollow metal door and frame. Supply ASSA high frequency hinges with bearings, LCN heavy duty closure, threshold and door sweep. Supply and install 1-Simplex 5-push button lockset.
- Move incinerator from its current location to inside the new metal building. The existing vent on the incinerator is 10" AFF. Supply additional piping from Incinerators

manufacture to ensure the vent extends above the roof ridge as shown on the drawings. New vent sections are to be welded in place. Install a collar around the vent at the roof panel to ensure water tightens. Incinerator Unit is a Destructor Incinerator. Manufacture phone number is 205-589-6720.

- Install 2-new circuits from the existing panel on the front of the existing structure as indicated and run them to the new incinerator building. One circuit will be utilized for lighting in the room and the second will be a dedicated duplex receptacle for owner's freezer. Reroute the existing incinerator circuit to its new location. Once the incinerator is placed in the new location, make final connections to the control panel and verify proper performance of the controls.
- Install 2-new 8' LED lights with vapor guards and duplex switch in the new building.
- New duplex and switch plates to be stainless steel. Ensure all panels circuits are properly labeled.
- Reroute existing gas line to new building. Perform pressure test once work is complete. Once the incinerator has been relocated, make connection to the incinerator and perform test fire to insure proper igniting of unit.
- Clear area of all vegetation where the new building foundation is to be poured. Perform subgrade preparation and compaction per engineer's design.
- Layout new incinerator building pad, excavate soils as necessary for footing.
- Set all forms and place all rebar for the and pour concrete footing, slab and ramp per the structural design.
- Once the incinerator has been moved into the new building, demolish and remove old concrete incinerator slab.
- Remove 1-6'x6' section of sidewalk at the rear on the building behind the storage room 107 to allow for underground conduit installation. Form for the sidewalk repair. Place #3 rebar mat on 18" centers. Install 3- ½" dowels on each tie in point to the existing sidewalk and pour back with 3,500 psi concrete.
- Level and grade off area around new building and old foundation once the foundation is removed. Place Bermuda sod over disturbed grounds as needed.

Alternate CMU Wall and Overhead Doors:

- Remove the downspouts from the columns, alter as needed and reinstall on the new wall system.
- Placed drilled shaft piers and pour concrete beam for new CMU wall as shown on the structural drawings.
- Construct new CMU wall along with structural steel and flashing, tying it back to the existing structure.
- Prime and paint the exterior side of the new wall with exterior paint used on the existing walls and prime and paint the interior side of the wall with epoxy paint. Follow all protocols as reflected in Sherwin Williams project specifications.
- Install three 10'x7' aluminum roll up doors on the south side of the kennel building.
- Install one 8'x7' aluminum roll up door on the north side of the kennel building.
- Install one 10'x7' aluminum rollup door on the north side of the kennel building.
- Install one 6'x7' aluminum rollup door on the north side of the kennel building.

- Frame and install cementitious siding on end wall cap and install new 3'6" x7' hollow metal door and frame. Supply ASSA high frequency hinges with bearings, LCN heavy duty closure, threshold and door sweep. Supply and install 1-Simplex 5-push button lockset.
- Demolish and remove the existing wooden fencing on northwest side of building.
- Demolish and the existing chain link fence, gates and woven 1" mesh that runs along the roof line of the kennels where the wall system and coils doors are designed to be installed.
- Remove the 2-layers of 1" woven cloth mesh that is currently shrouding the kennel area from the outside. Remove the chain link walk gate along with a total of 16' of existing fence next to the propone tank to allow for access to work site in rear of property. Once the work is complete on the rear of the property, replace the removed fence section and walk gate
- Supply and install 6-8' vapor sealed LED light fixtures connected to the existing lighting circuit. One fixture to be located in front of each overhead door.
- Fine grade off area around new wall footing and repair sod affected by wall installation.

BRIS General Clarifications:

- A marked up set of as builts drawings, copies of all shop drawings and submittals, warranties, paint codes, MSDS sheets, a statement that no asbestos containing materials were used, Lien release and Consent of Surety will be submitted in the close out package upon completion.
- The price is accepted as a lump sum fixed firm price and this scope of work and the construction drawings become the controlling documents.
- Brown & Root will require complete access to the work during normal hours to perform operations.
- Unless otherwise identified by owner during preproposal discussions; no other contractors or vendors will be able to work in Brown & Root's work area(s) while our work is underway for safety reasons
- Any owner employees and/or contractors will be required to wear proper PPE in Brown & Root work areas.
- Pricing assumes normal working hours of 8:00 AM to 5:00 PM Monday – Friday.
- Brown & Root pricing assumes continuous access to the "work" without interruption or any work stoppages for any reason. Direct costs incurred by the need for additional demobilization and remobilization or work stoppages will be handled as a change order.
- Payment and Performance Bonds are included in this proposal.
- Any required building & trade permits are included in this proposal.
- Owner will verify no hazardous material will be encountered by Brown & Root and provide UpToDate/most current ACM surveys.
- All work shall be in accordance with all OSHA Standards, applicable federal, state, and local codes, and regulations and good construction practices.
- Includes all materials, equipment, and labor to complete the above scope of work. Means and methods are best estimate at the time of this proposal, owned by Brown & Root and subject to change without price modifications except for unforeseen/hidden conditions.
- Brown & Root shall remove from site all spoils, equipment and materials during the project progress and after completion of this project.

- If owner takes possession of any part of the Work before final acceptance, the correction period shall continue for a period of one (1) year from date possession is taken.
- Approval of this proposal designates acceptance of the scope of work statement and line-item estimate which has been used only to develop a mutually agreed price. The price is accepted as a lump sum fixed firm price and the incorporated scope of work becomes the controlling document taking precedence over line-item estimate detail.

BRIS Exclusions

- Sales and/or use tax.
- Existing code violations are excluded.
- Handling or removal of any hazardous materials including, but not limited to Mold, Asbestos Containing Materials., Lead, PCB's, Chemicals and/or Contaminated Soils.
- No data/communications work is included in this proposal.
- Hidden or unforeseen conditions
- Any items of work or repairs beyond this scope of work
- Underground existing obstructions
- Warranty of or replacement of Owner supplied materials and equipment.
- Owner and/or 3rd party testing.

Drawings: Sheets A1.0, A2.0, A3.0, A4.0, E1.0, E1.1, E2.0, E3.0, ESP1.0, P1.0 and P2.0 by Swarts Architects dated 9/14/2022

Specifications: Sherwin Williams Product Submittal – Animal Shelter – Pages 1-86 - Dated August 17, 2022

Labor Rate Table	2022 RS Means Facilities Construction with O&P
Equipment Rate Table	2022 RS Means Equipment with O&P

Client	City of Port Lavaca
Project	Base Bid Renovation of Kennels
Location	Animal Control Center
B&R RFP Number	RFP #008
Contractor	Brown & Root Industrial Services, LLC / On Call Construction
Date	October 12, 2022

Master Format Code	Item Code	Division Code	Item Description		Takeoff Qty	Unit	Loc	Labor Unit Price	Labor Total	Mat Unit Price	Mat Total	Equip Unit Price	Grand Total	Equip Total	Subs Total	Other Total	User Total	Total w/CCI & Coef Applied
01			General Conditions						3,018.81		1,739.60		22,230.92	7,790.96		9,681.55		15,186.61
01311390	0100	01	Performance Bond, for buildings, maximum		387,262.00	%Job							9,681.55					
			payment and performance bond as required due to dollar value. based on raw costs as coefficient and CCI is reduced on total															
01540950	0020	01	Respirator mask only, full face, silicone		4.00	EA				205.00	820.00		820.00					560
			PPE to prep kennel area for coatings															
01540950	0050	01	Respirator cartridges, chemical vapor, 2 req'd per mask		4.00	EA				5.30	21.20		21.20					14
01540950	0060	01	Respirator cartridges, combination vapor and dust, 2 req'd per mask		16.00	EA				13.40	214.40		214.40					146
			PPE to prep kennel area for coatings - 2 per day per mask for 2 days															
01540950	0320	01	Over boots, neoprene		4.00	pair				38.00	152.00		152.00					104
			PPE to prep kennel area for coatings															
01540950	0400	01	Gloves, nitrile/PVC		4.00	pair				119.00	476.00		476.00					325
			PPE to prep kennel area for coatings															
01543340	0020A	01	Rent aerial lift, scissor type, to 20' high, 1200 lb. capacity, electric - Hourly operating cost		160.00	hour						3.59	574.40	574.40				392
			access high areas of walls for conduits and paint															
01543340	0020C	01	Rent aerial lift, scissor type, to 20' high, 1200 lb. capacity, electric - Rent per week		6.00	week						375.56	2,253.36	2,253.36				1,539
			access high areas of walls for conduits and paint															
01543340	0020E	01	Rent aerial lift, scissor type, to 20' high, 1200 lb. capacity, electric - Crew daily cost		30.00	days						103.86	3,115.80	3,115.80				2,128
			access high areas of walls for conduits and paint															
01543340	6410D	01	Rent toilet portable chemical - Rent per month		2.00	mnth						210.00	420.00	420.00				287
			portacan on site for crews usage															
01543340	6410E	01	Rent toilet portable chemical - Crew daily cost		40.00	days						15.61	624.40	624.40				427
			portacan on site for crews usage															
01543650	1200	01	Mobilization or demobilization, delivery charge for small equipment, placed in rear of, or towed by pickup truck		6.00	EA		177.60	1,065.60			49.50	1,362.60	297.00				931
			mob and demob small equipment and crews for base bid portion of project															
01543650	1400	01	Mobilization or demobilization, delivery charge for equipment, hauled on 20-ton capacity towed trailer		2.00	EA		693.08	1,386.17			253.00	1,892.17	506.00				1,293
			mob and demob aerial lift															
01931304	0120	01	Caulking masonry, cutout and recaulk, polysulfide, excl. staging		100.00	LF		5.67	567.04	0.56	56.00		623.04					426
			prep CMU walls for paint															
02			Existing Conditions						6,831.19		4,676.00		11,646.97	139.78				7,956
02411362	0200	02	Selective demolition, chain link fences & gates, gates, 10'-12' width		2.00	EA		116.69	233.38			22.55	278.48	45.10				190
			repair fence gates in front and remove fence in back for access to new work area															
02411362	1000	02	Selective demolition, chain link fences & gates, fence, posts, steel in concrete		7.00	EA		23.34	163.37			4.52	195.02	31.65				133
			repair fence posts in front and remove fence in back for access to new work area															
02411362	1100	02	Selective demolition, chain link fences & gates, fence, fabric & accessories, fabric, to 8' high		30.00	LF		2.33	70.02			0.45	83.55	13.53				57
			repair fence fabric in front and remove fence in back for access to new work area															
02411362	1400	02	Selective demolition, chain link fences & gates, fence, fabric & accessories, fence rails		30.00	LF		0.93	27.91			0.18	33.19	5.28				23
			repair fence rails in front and remove fence in back for access to new work area															
02411366	0200	02	Selective demolition, miscellaneous metal fences & gates, chain link kennels, 6'-12' long		10.00	EA		144.58	1,445.82				1,445.82					988
			remove 10 kennel wire lids for replacement															
02411919	0800	02	Selective demolition, rubbish handling, dumpster, 30 C.Y., 7 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost		6.00	week				730.00	4,380.00		4,380.00					2,992
			dumpster on site for debris collection															
02411919	2040	02	Selective demolition, rubbish handling, 0'-100' haul, load, haul, dump and return, hand carried, cost to be added to demolition cost		35.00	CY		69.91	2,446.78				2,446.78					1,671
			haul trash to dumpster															
02411920	0100	02	Selective demolition, dump charges, typical urban city, building construction materials, includes tipping fees only		4.00	ton				74.00	296.00		296.00					202
			disposal fee of construction debris															
02411927	1090	02	Selective demolition, torch cutting, steel, minimum labor/equipment charge		6.00	Job		407.32	2,443.91			7.37	2,488.13	44.22				1,700
			torch old steel frames to remove from walls															
03			Concrete						5,871.60		118.10		6,857.60	867.90				4,684
03013062	2100	03	Patching concrete, walls, epoxy grout, 1/4" deep, including chipping, cleaning and epoxy grout			SF		10.23		4.55								
03354310	0210	03	Polished concrete floors, processing of interior floors, grinding and edging with diamond/metal matrix, 40-grit, includes wet grinding, wet vac pick-up, auto scrubbing between grit changes		3.00	Msf	Kenn wall enck door	1,558.94	4,676.81	37.50	112.50	289.30	5,657.21	867.90				3,864
			grind floor of kennel area and walls as needed to receive new coatings															
03821610	0400	03	Concrete impact drilling, for anchors, up to 4" D, 5/8" dia, in concrete or brick walls and floors, includes bit cost, layout and set up time, excl anchor		80.00	EA		14.93	1,194.79	0.07	5.60		1,200.39					820
			drill holes for new kennel grate anchoring															
04			Masonry						28,348.19		3,698.66		34,285.81	2,238.96				23,421
04012020	0320	04	Pointing masonry, tuck, cut and re-point, hard mortar, common bond		114.00	SF		9.21	1,049.98	0.83	94.62		1,144.61					782
			for clean infill of CMU patches															
04012040	0050	04	Sawing masonry, brick or block, by hand, per inch depth		34.00	LF		4.64	157.74	0.05	1.70	0.97	192.35	32.91				131
			cutting out blocks for full brick patches															
04012050	0720	04	Toothing masonry, blockwork, hard mortar		30.00	vft		11.60	347.95				347.95					238
			tooth in patches of new to old block															
04012050	9000	04	Toothing masonry, minimum labor/equipment charge		5.00	Job		144.58	722.91				722.91					494
			tooth in 5-small infills in the walls															
04012052	1240	04	Cleaning masonry, sandblast, wet system, heavy soil, biological and mineral staining, paint, excludes scaffolding		4,400.00	SF		3.58	15,745.46	0.76	3,344.00	0.48	21,219.06	2,129.60				14,495
			pressure wash walls, floors, ceiling and wire cages in kennels for new coatings= 12,868 sq ft total surface															
04012052	9000	04	Cleaning masonry, minimum labor/equipment charge		1.00	Job		1,287.59	1,287.59			76.45	1,364.04	76.45				932
			wash new CMU after infills															
04050510	0200	04	Selective demolition, masonry, bond beam, 8" block with #4 bar		14.00	LF		36.54	511.60				511.60					349
			demo head of old openings for clean infill															
04050510	9000	04	Selective demolition, masonry, minimum labor/equipment charge		11.00	Job		289.16	3,180.81				3,180.81					2,173
			remove CMU at 3-windows, 1-fan and 1-louwer and 6-door frames to allow for proper full block infill and new frame installation															
04051330	2100	04	Mortar, portland cement and lime, 1:1/4:3 mix, type M		4.00	CF		4.04	16.15	14.35	57.40		73.55					50
			mortar for wall in fills															
04051630	9000	04	Grout, minimum labor/equipment charge		6.00	Job		354.00	2,124.00				2,124.00					1,451
			grout new door frames															
04221010	2650	04	Concrete block, hollow, normal weight, 3500 psi, 8" x 8" x 16", includes material only		102.00	EA				1.97	200.94		200.94					137
			90 sq ft blocks = 102 blocks - material only - no labor or equipment in line item															
04221024	9000	04	Concrete block, exterior, minimum labor and equipment charge		5.00	Job		640.80	3,203.99				3,203.99					2,189
			labor only to infill 3-windows, 1- fan and 1-louwer															
05			Metals						92,777.73		42,341.26		144,302.07	9,183.09				98,573
05011051	6270	05	Metal cleaning, steel surface treatment, 12.0 lb sand per S.F., near white blast, existing coat badly pitted, nodules (SSPC-SP10)		1,380.00	SF		17.47	24,105.27	2.14	2,953.20	2.28	30,200.73	3,142.26				20,630
			prep metals for galvanizing															
05050510	0030	05	Selective metals demolition, nuts, 7/8" to 1-1/4" diameter, remove nut only, excl shoring, bracing, cutting, loading, hauling, dumping		80.00	EA		3.32	265.39				265.39					181
			demo the nuts holding kennel floor grates for rehabilitation															
05050510	2840	05	Selective metals demolition, demolish steel bar grating, excl shoring, bracing, cutting, loading, hauling, dumping		160.00	SF		6.65	1,063.44			0.52	1,146.16	82.72				783
			removal of the kennel grates															
05051350	5900	05	Paints and protective coatings, galvanizing structural steel in shop, under 1 ton, hot dip		1.00	ton				695.00	695.00		695.00					475
			galvanizing new metals used on project															
05051910	1430	05	Chemical anchor, 3/4" diameter x 9-1/2" L, in concrete, brick or stone, incl layout, drilling, threaded rod & epoxy cartridge		80.00	EA		49.14	3,931.22	7.70	616.00	4.85	4,935.30	388.08				3,371
			stainless steel anchors for kennel grate rehab. 2 per kennel															
05051920	8250	05	Wedge anchor, carbon steel, 1/2" dia x 2-3/4" L, in concrete, brick or stone, excl layout & drilling		120.00	EA		5.12	613.92	1.13	135.60		749.52					512
			anchors to secure new screening components to structure															

Master Format Code	Item Code	Division	Item Description	Takeoff Qty	Unit	Loc	Labor Unit Price	Labor Total	Mat Unit Price	Mat Total	Equip Unit Price	Grand Total	Equip Total	Subs Total	Other Total	User Total	w/CCI & Coef Applied	Total
05051920	8800	05	Wedge anchor, in concrete, brick or stone, for type 316 stainless steel, add	750.00	%				4.50	3,375.00		3,375.00						2,305
			add for fasteners to be stainless steel															
05052110	0050	05	Cutting, steel, to 1/4" thick, by hand, incl prep, torch cutting & grinding, excl staging	540.00	LF		2.04	1,099.76	0.64	345.60	0.03	1,463.18	17.82					999
			cutting angle iron and expanded metal to fabricate new systems on and over the kennels															
05052115	1340	05	Drilling holes in steel for anchors, up to 1/4" deep, 1/2" diameter, incl bit & layout, excludes anchor	120.00	EA		8.29	995.19	0.08	9.60		1,004.79						686
05052190	0300	05	Welding structural steel in field, cost per welder, 1/8" dia, type 6011, incl 1 operating engineer	48.00	hour		190.63	9,150.18	6.40	307.20	20.24	10,428.90	971.52					7,124
			2-man welder crew on site 3-days to replace bolts and hinge system on grates in 40 kennels to stinless steel hardware and reloacte guillotine door pulls															
05052190	0300	05	Welding structural steel in field, cost per welder, 1/8" dia, type 6011, incl 1 operating engineer	160.00	hour		190.63	30,500.60	6.40	1,024.00	20.24	34,763.00	3,238.40					23,747
			2-man welder crew on site 2-weeks to fabricate and alter kennel doors and enclosures for bird prevention															
05122340	0464	05	Angle framing, structural steel, 1"x1"x1/8", field fabricated, incl cutting & welding	102.00	LF		17.80	1,815.80	0.79	80.58	1.20	2,018.68	122.30					1,379
			angle iron frame for expanded metal on roof vent															
05122340	0468	05	Angle framing, structural steel, 1-1/2"x1-1/2"x3/16", field fabricated, incl cutting & welding	24.00	LF		24.06	577.36	1.77	42.48	1.62	658.65	38.81					450
			angle iron frame for cat gate															
05122340	0476	05	Angle framing, structural steel, 3"x3"x3/8", field fabricated, incl cutting & welding	340.00	LF		42.50	14,450.09	7.05	2,397.00	2.85	17,815.75	968.66					12,170
			angle frame for expanded metal framing															
05531910	1200	05	Floor grating, aluminum, expanded, 0.65 lb/S.F., field fabricated from panels	1,380.00	SF		3.05	4,209.50	22.00	30,360.00	0.15	34,782.02	212.52					23,760
			exapnded metal panels for alterations to 20 kennel doors, ara over perimeter kennels and roof louver															
08				Openings				9,302.48	19,831.00	29,133.48								19,901
08011110	0012	08	Door & window maintenance, remove weatherstripping, door or window	6.00	EA		15.89	95.33				95.33						65
			removal of doors and frames to be replaced															
08011110	0060	08	Door & window maintenance, remove lockset	12.00	EA		35.75	428.98				428.98						293
			remove 60 locksets on old doors, save and then reinstall on 6 new doors															
08011110	1140	08	Door & window maintenance, remove deadbolt	6.00	EA		51.64	309.82				309.82						212
			removal of doors and frames to be replaced															
08050510	0202	08	Door demolition, exterior door, single, 3' - 6" x 7' high, 1-3/4" thick, remove	6.00	EA		48.46	290.75				290.75						199
			removal of doors and frames to be replaced															
08050510	2000	08	Door demolition, door frames, metal, remove	6.00	EA		89.77	538.61				538.61						368
			removal of doors and frames to be replaced															
08050520	1000	08	Window demolition, steel, to 12 S.F., includes aluminum frame	3.00	EA		44.49	133.46				133.46						91
			remove 3- hollow metal windows															
08121313	0100	08	Frames, steel, knock down, hollow metal, single, 16 ga., up to 5-3/4" deep, 3'-0" x 7'-0"	6.00	EA		89.77	538.61	175.00	1,050.00		1,588.61						1,085
			new hollow metal frames															
08121313	4900	08	Frames, steel, knock down, hollow metal, for welded frames, add	6.00	EA				124.00	744.00		744.00						508
			add for welded frames															
08131325	0560	08	Doors, exterior, steel, commercial, flush, 20 ga., 1-3/4" x 7'-0" x 3'-0" wide	6.00	EA		102.48	614.87	560.00	3,360.00		3,974.87						2,715
			new metal doors															
08311340	0200	08	Doors, kennel, 2-way, swinging type, electronic with accessories, 9" x 9" opening	20.00	Opng	Kenn wall enck door	130.28	2,605.65	154.00	3,080.00		5,685.65						3,884
			manufactured box to allow for lockset install on 20-kennels															
08712030	8150	08	Door hardware, door closer, surface mounted, heavy duty, parallel arm, modern	6.00	EA		119.16	714.96	355.00	2,130.00		2,844.96						1,943
			new ped door items															
08712040	1400	08	Door hardware, lockset, heavy duty, cylindrical, with sectional trim, keyed, single cylinder function	20.00	EA		71.50	1,429.93	400.00	8,000.00		9,429.93						6,442
			new lock sets on perimeter kennels due to bird proofing expanded metal															
08712090	1480	08	Door hardware, hinges, full mortise, high frequency, brass base, US10B, 4-1/2" x 4-1/2"	9.00	pair				126.00	1,134.00		1,134.00						775
			new ped door items															
08712510	2700	08	Weatherstripping, doors, metal frame, extruded sections, aluminum, for 3' x 7' door	6.00	Opng		238.32	1,429.93	33.50	201.00		1,630.93						1,114
			new ped door items															
08712510	3650	08	Weatherstripping, for thresholds, door sweep, flush mounted, aluminum	6.00	EA		28.60	171.59	22.00	132.00		303.59						207
			new ped door items															
09				Finishes				99,471.47	21,095.02	120,566.49								82,359
09019093	0080	09	Surface preparation, exterior, doors, per side, wire brush, metal, flush, excl. frames or trim	252.00	SF		0.95	239.14				239.14						163
			prep new ped doors for paint															
09019093	1320	09	Surface preparation, exterior, chain link fence, two sides, wire brush	2,880.00	SF		2.42	6,969.12				6,969.12						4,761
			clean kennel wire walls and kennel wire ceiling															
09019093	1400	09	Surface preparation, exterior, existing galvanized surface, prep for painting, clean and prime	3,344.00	SF		1.60	5,341.73	0.13	434.72		5,776.45						3,946
			prep galvanized wire on kennels, metal flashing, steel columns and gutters for paint															
09911360	0800	09	Paints & coatings, siding, exterior, alkyl (oil base), paint 2 coats, brushwork	1,230.00	SF		0.93	1,147.76	0.32	393.60		1,541.36						1,053
			cut in primer and top coat of paint on CMU walls															
09911360	1400	09	Paints & coatings, siding, exterior, stucco, rough, oil base, paint 2 coats, roller	3,036.00	SF		0.74	2,256.80	0.34	1,032.24		3,289.04						2,247
			roll filler and top coats on CMU walls															
09911370	0140	09	Paints & coatings, exterior door frames & trim only, brushwork, primer + 2 coats, exterior latex	102.00	LF		2.28	232.30	0.39	39.78		272.08						186
			paint 6 new door frames at 17L' ea x 6 = 102'															
09911370	0190	09	Paints & coatings, exterior doors, flush, both sides, roll & brush, primer + 2 coats, exterior latex, incl. frame & trim	6.00	EA		120.99	725.95	29.50	177.00		902.95						617
			paint 6 new metal door slabs															
09911380	0220	09	Paints & coatings, trim, exterior, gutters, metal, zinc chromate paint, first coat, brushwork, 5"	192.00	LF		0.95	182.20	0.81	155.52		337.72						231
			primer galv flashing, gutter and downspouts															
09911380	0320	09	Paints & coatings, trim, exterior, gutters, wood, primer + 2 coats exterior latex, brushwork, 5"	192.00	LF		1.87	358.33	0.39	74.88		433.21						296
			paint galv mertal fascia, gutter & downspouts															
09965620	1900	09	Wall coating, high build epoxy, water based, 50 mil	12,868.00	SF		6.37	82,018.16	1.46	18,787.28		100,805.44						68,860
			epoxy coat kennel floors CMU walls and kennel wire frame system - total 12,868 sq ft surface to coat															
23				Heating, Ventilating, and Air-Conditioning (HVAC)				6,956.80		6,956.80								4,752
23050510	2124	23	Fans, 1-1/2 thru 10 HP or 20,000 CFM, selective demolition	18.00	EA	Kenn wall enck door	286.40	5,155.12				5,155.12						3,521
			line to remove fans in kennel area, clean them and then reinstall them. Material costs are removed. 9 fans x 2 useages =18															
23050510	3000	23	HVAC, mechanical equipment, light items; unit is weight, not cooling, selective demolition	1.00	ton		1,733.20	1,733.20				1,733.20						1,184
			Remove 4x4' wall fan unit															
23050510	7450	23	Relief vent, up thru 24" x 96", selective demolition	1.00	EA	Kenn wall enck door	68.49	68.49				68.49						47
			remove louver on front wall															
26				Electrical				529.82	12.96	542.78								371
26050520	6510	26	Equipment connection, to 15 to 30 HP, electrical demolition, remove	9.00	EA		45.32	407.88				407.88						279
			disconnect the circulating fans															
26051935	0045	26	Wire connector, screw type, insulated, #12 to #6	27.00	EA		4.52	121.95	0.48	12.96		134.91						92
			reconnect the circulating fans															
32				Exterior Improvements				5,756.65	14,043.28	20,420.20	620.27							13,949
32311320	0500	32	Fence, chain link industrial, galvanized steel, 6 ga. wire, 2" posts @ 10' OC, 6' high, includes excavation, & concrete	44.00	LF	Kenn wall enck door	7.51	330.29	27.50	1,210.00	1.78	1,618.70	78.41					1,106
			replacement fence at drive gate location and at propane tank location															
32311320	0920	32	Fence, chain link industrial, galvanized steel, 6 ga. wire, 2-1/2" posts @ 10' OC, 8' high, includes excavation, in concrete, excludes barbed wire	44.00	LF		10.02	440.86	38.50	1,694.00	2.38	2,239.40	104.54					1,530

Master Format Code	Item Code	Division Code	Item Description	Takeoff Qty	Unit	Loc	Labor Unit Price	Labor Total	Mat Unit Price	Mat Total	Equip Unit Price	Grand Total	Equip Total	Subs Total	Other Total	User Total	Total w/CCI & Coef Applied
32311320	1400	32	Fence, chain link industrial, gate, galvanized steel, 6' high fence, 1-5/8" frame, 3' wide, 6' high, includes excavation, in concrete	1.00	EA		179.71	179.71	225.00	225.00	42.90	447.61	42.90				306
32311320	2100	32	Fence, chain link industrial, no barbed wire, galvanized steel, 2" line post, 10' OC, 1-5/8" top rail, 5' - 0" high, includes excavation, in concrete	44.00	LF		6.01	264.51	22.50	990.00	1.43	1,317.43	62.92				900
32311320	5060	32	Fence, chain link industrial, double swing gates, 6' high, 12' opening, includes excavation, posts & hardware in concrete	1.00	Opng	Kenn wall enck door	564.59	564.59	490.00	490.00	134.20	1,188.79	134.20				812
new gate at the front as reflected on drawings																	
32311320	7055	32	Fence, chain link industrial, braces, galvanized steel, 6 ga. wire	44.00	LF	Kenn wall enck door	1.81	79.70	3.12	137.28	0.43	235.85	18.88				161
replacement fence at drive gate and walk gate																	
32311330	6660	32	Fence, chain link, gates & posts, end posts, chain link fence, galvanized steel, 3" OD, 4', set in concrete, includes excavation	4.00	EA	Kenn wall enck door	37.02	148.08	35.50	142.00	8.74	325.06	34.98				222
new end and gate posts																	
32311330	7780	32	Chain link fence gates and posts, chain link fence gates and posts, 6' high, excludes excavation	5.00	LF	Kenn wall enck door	87.67	438.37	137.00	685.00	22.55	1,236.12	112.75				844
32311330	7925	32	Chain link fence gates and posts, auger fence post hole, medium soil, 3' deep, by machine, includes excavation	9.00	EA	Kenn wall enck door	14.41	129.72			3.41	160.41	30.69				110
drill post holes																	
32312610	1050	32	Wire fences and gates, fence, miscellaneous metal, kennel fencing, 12' long, 3'-6" wide, 6'-2" high, 1-1/2" mesh	11.00	EA		289.16	3,180.81	770.00	8,470.00		11,650.81					7,959
replace tops on 11-kennels																	
Grand Total								258,864.74	107,555.88	396,943.12	20,840.95	9,681.55	271,152				

CSI	Division	Labor	Mat	Subs	Equip	Other	User	Total
01	General Requirements	3,019	1,740		7,791	9,682		22,231
02	Site Construction	6,831	4,676		140			11,647
03	Concrete	5,872	118		868			6,858
04	Masonry	28,348	3,699		2,239			34,286
05	Metals	92,778	42,341		9,183			144,302
08	Doors & Windows	9,302	19,831					29,133
09	Finishes	99,471	21,095					120,566
23	Heating, Ventilating, and Air Conditioning (HVAC)	6,957						6,957
26	Electrical	530	13					543
32	Exterior Improvements	5,757	14,043		620			20,420
						City Cost Index Qrt 1-2022		-3,969
						Subtotal		392,974
						Standard Hour Coefficient .69		-121,822
						Subtotal		271,152
						Other Normal Hours		
						Total Estimate		271,152

Labor Rate Table	2022 RS Means Facilities Construction with O&P
Equipment Rate Table	2022 RS Means Equipment with O&P

Client	City of Port Lavaca
Project	Alternate for Metal Building and Incinerator Relocation
Location	Animal Control Center
B&R RFP Number	RFP #008
Contractor	Brown & Root Industrial Services, LLC / On Call Construction
Date	October 12, 2022

Master Format Code	Item Code	Division Code	Item Description	Takeoff Qty	Unit	Loc	Labor Unit Price	Labor Total	Mat Unit Price	Mat Total	Equip Unit Price	Grand Total	Equip Total	Subs Total	Other Total	User Total	w/CCI & Coef Applied	Total
01			General Conditions					3,837.94				19,348.64	11,861.08		3,649.63			13,217
01311390	0100	01	Performance Bond, for buildings, maximum	145,985.00	%Job													2,493
01543320	0460C	01	Rent backhoe-loader wheel type 80 HP 1-1/4 CY capacity - Rent per week	1.00	week						1,173.89	1,173.89	1,173.89					802
01543320	0482A	01	Rent backhoe-loader attachment, compactor, 20,000 lb. - Hourly operating cost	16.00	hour						6.63	106.08	106.08					72
			attachment on backhoe to compact soils															
01543320	0482B	01	Rent backhoe-loader attachment, compactor, 20,000 lb. - Rent per day	2.00	days						390.56	781.12	781.12					534
01543320	0482E	01	Rent backhoe-loader attachment, compactor, 20,000 lb. - Crew daily cost	2.00	days						253.34	506.68	506.68					346
01543320	1350A	01	Rent vibratory plate compactor 21" plate 5000 lb blow - Hourly operating cost	8.00	hour						2.69	21.52	21.52					15
			equipment for compacting															
01543320	1350B	01	Rent vibratory plate compactor 21" plate 5000 lb blow - Rent per day	2.00	days						206.56	413.12	413.12					282
01543320	1350E	01	Rent vibratory plate compactor 21" plate 5000 lb blow - Crew daily cost	2.00	days						137.11	274.22	274.22					187
01543320	3860A	01	Rent shovel/backhoe bucket, 1/2 CY - Hourly operating cost	20.00	hour						2.77	55.40	55.40					38
			shovel for backhoe to extract soils															
01543320	3860B	01	Rent shovel/backhoe bucket, 1/2 CY - Rent per day	5.00	days						74.00	370.00	370.00					253
01543320	3860E	01	Rent shovel/backhoe bucket, 1/2 CY - Crew daily cost	5.00	days						68.13	340.65	340.65					233
01543340	0020A	01	Rent aerial lift, scissor type, to 20' high, 1200 lb. capacity, electric - Hourly operating cost	40.00	hour						3.59	143.60	143.60					96
			equipment to erect new building															
01543340	0020C	01	Rent aerial lift, scissor type, to 20' high, 1200 lb. capacity, electric - Rent per week	1.00	week						375.56	375.56	375.56					257
			access high areas of new building															
01543340	0020E	01	Rent aerial lift, scissor type, to 20' high, 1200 lb. capacity, electric - Crew daily cost	5.00	days						103.86	519.30	519.30					355
			access high areas of new building															
01543340	2055A	01	Rent forklift,pnm tire,all terr,tele boom, 6600 lb, 29' reach, 42' lift - Hourly operating cost	40.00	hour						21.71	868.40	868.40					593
			equipment for erection of building and moving the incinerator															
01543340	2055C	01	Rent forklift,pnm tire,all terr,tele boom, 6600 lb, 29' reach, 42' lift - Rent per week	1.00	week						1,332.95	1,332.95	1,332.95					911
			erection of building and moving the incinerator															
01543340	2055E	01	Rent forklift,pnm tire,all terr,tele boom, 6600 lb, 29' reach, 42' lift - Crew daily cost	5.00	days						440.31	2,201.55	2,201.55					1,504
			erection of building and moving the incinerator															
01543340	3430A	01	Gen equip. rental: level, laser type, for pipe and sewer line and grade - Hourly operating cost	24.00	hour						2.24	53.76	53.76					37
			equipment for grade shots															
01543340	3430B	01	Gen equip. rental: level, laser type, for pipe and sewer line and grade - Rent per day	3.00	days						152.86	458.58	458.58					313
01543340	3430E	01	Gen equip. rental: level, laser type, for pipe and sewer line and grade - Crew daily cost	3.00	days						98.20	294.60	294.60					201
01543340	6410D	01	Rent toilet portable chemical - Rent per month	0.50	mnth						210.00	105.00	105.00					72
			additional time portacan on site for crews usage															
01543340	6410E	01	Rent toilet portable chemical - Crew daily cost	10.00	days						15.61	156.10	156.10					107
			portacan on site for crews usage															
01543650	1200	01	Mobilization or demobilization, delivery charge for small equipment, placed in rear of, or towed by pickup truck	6.00	EA		177.60	1,065.60			49.50	1,362.60	297.00					931
			mob and demob small equipment and crews for building portion of project															
01543650	1400	01	Mobilization or demobilization, delivery charge for equipment, hauled on 20-ton capacity towed trailer	4.00	EA		693.08	2,772.34			253.00	3,784.34	1,012.00					2,585
			mob and demob concrete equipment, aerial lift and forklift															
02			Existing Conditions					2,504.56		1,756.00		4,267.93	7.37					2,915
02411919	0800	02	Selective demolition, rubbish handling, dumpster, 3 C.Y., 7 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost	2.00	week				730.00	1,460.00		1,460.00						997
			additional time dumpster on site for debris collection															
02411919	2040	02	Selective demolition, rubbish handling, 0'-100' haul, load, haul, dump and return, hand carried, cost to be added to demolition cost	30.00	CY		69.91	2,097.24				2,097.24						1,433
			haul trash to dumpster															
02411920	0100	02	Selective demolition, dump charges, typical urban city, building construction materials, includes tipping fees only	4.00	ton				74.00	296.00		296.00						202
			disposal fee of construction debris															
02411927	1090	02	Selective demolition, torch cutting, steel, minimum labor/equipment charge	1.00	Job		407.32	407.32			7.37	414.69	7.37					283
			cut rebar in concrete to be demoed															
03			Concrete					10,782.39		4,655.21		16,097.05	659.45					10,996
03050510	0070	03	Selective concrete demolition, reinforcing more than 2% cross-sectional area, break up into small pieces, excludes shoring, bracing, saw or torch cutting, loading, hauling, dumping	5.00	CY		364.25	1,821.25			45.65	2,049.50	228.25					1,400
			demo old incinerator pad and section of sidewalk for conduit run															
03111365	2000	03	C.I.P. concrete forms, slab on grade, curb, wood, 6" to 12" high, 1 use, includes erecting, bracing, stripping and cleaning	70.00	sfca		12.71	889.73	3.56	249.20		1,138.93						778
			form new slab and sidewalk patch @ electrical trench															
03111365	8760	03	C.I.P. concrete forms, box void form for slab on grade, 4" x 12" x 4" long	8.00	SF		0.91	7.24	4.65	37.20		44.44						30
			box out for columns															
03150512	2200	03	Chamfer strip, polyvinyl chloride, 3/4" wide with leg	10.00	LF		1.37	13.66	0.89	8.90		22.56						15
			strip set in forming for overhead door step down															
03150530	8600	03	Tie wire, for reinforcing steel, 16 gauge, black annealed	1.00	Cwt				167.00	167.00		167.00						114
			tie wire for rebar															
03151905	8150	03	Anchor bolt sleeve, plastic, 1" diameter bolts	16.00	EA		11.92	190.66	9.20	147.20		337.86						231
			protect bolts during concrete pour															
03151910	0180	03	Anchor bolt, J-type, 2-bolt set, plain steel, 1" dia x 24" L, incl nut & washer, job-built 2-hole template	8.00	set		37.34	298.70	46.00	368.00		666.70						455
			4-sets of 2 bolts for column bolting to slab															
03211160	0602	03	Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	1,180.00	lb		0.72	848.63	0.73	861.40		1,710.03						1,168
			rebar and strups for grade beams and slab															
03211160	1000	03	Reinforcing steel, in place, under 10 ton job, #3 to #7, add	1,710.00	%		0.10	171.00	0.25	427.50		598.50						409
			adder for under 10 tons of rebar															
03211160	2000	03	Reinforcing steel, unload and sort, add to base	1.00	ton		53.01	53.01			23.10	76.11	23.10					52
			shake out rebar															
03211160	2400	03	Reinforcing steel, in place, dowels, deformed, 2" long, #3, A615, grade 60	44.00	EA		2.92	128.64	0.60	26.40		155.04						106
			dowels for tie of rebar in grade beams to slab															
03311335	0200	03	Structural concrete, ready mix, heavyweight, 3500 psi, includes local aggregate, sand, Portland cement (Type I) and water, delivered, excludes all additives and treatments	13.00	CY				161.00	2,093.00		2,093.00						1,430
			concrete for spread footong, slab, pier caps and sidewalk replacement															
03311335	1410	03	Structural concrete, ready mix, for mid-range water reducer, add	13.00	CY				4.27	55.51		55.51						38
			concrete add mix															
03311335	1430	03	Structural concrete, ready mix, for retarder, add	13.00	CY				5.10	66.30		66.30						45
			concrete add mix															
03311370	9000	03	Structural concrete, placing, minimum equipment/labor charge, includes leveling (strike off) & consolidation	2.00	Job		1,777.19	3,554.39			30.80	3,615.99	61.60					2,470
			placing concrete in spread footing and sidealk and ramps - 2-pours															
03351330	9100	03	Concrete finishing, minimum labor/equipment charge, excl placing, striking off & consolidating	2.00	Job		957.97	1,915.94				1,915.94						1,309
			finishing of new slab, sidewalk repair and ramps - 2-pours															
03621650	0050	03	Grout, non-shrink, for column and machine bases, metallic, 2" deep	8.00	SF		26.56	212.51	18.45	147.60		360.11						246
			grout column box outs															
03811350	0590	03	Selective demolition, concrete slab cutting/sawing, minimum labor/equipment charge	1.00	Job		677.03	677.03			346.50	1,023.53	346.50					699
			saw cut sidewalk for demo															
05			Metals					24,476.23		26,404.60		54,298.07	3,417.24					37,091
05011051	6270	05	Metal cleaning, steel surface treatment, 12.0 lb sand per S.F., near white blast, existing coat badly pitted, nodules (SSPC-SP10)	200.00	SF		17.47	3,493.52	2.14	428.00	2.28	4,376.92	455.40					2,990
			clean steel prior to coating in shop															
05051350	5900	05	Paints and protective coatings, galvanizing structural steel in shop, under 1 ton, hot dip	3.00	ton				695.00	2,085.00		2,085.00						1,424
			caoting raw steel in shop															
05051910	1430	05	Chemical anchor, 3/4" diameter x 9-1/2" L, in concrete, brick or stone, incl layout, drilling, threaded rod & epoxy cartridge	16.00	EA		49.14	786.24	7.70	123.20	4.85	987.06	77.62					674

Master Format Code	Item Code	Division	Item Description	Takeoff Qty	Unit	Loc	Labor Unit Price	Labor Total	Mat Unit Price	Mat Total	Equip Unit Price	Grand Total	Equip Total	Subs Total	Other Total	User Total	w/CCI & Coef Applied	Total
05052115	1955	05	Drilling holes in steel for anchors, 5/8" diameter, incl bit & layout, excludes anchor, for each additional 1/4" depth, add	164.00	EA		3.01	493.86	0.12	19.68		513.54						351
			drill holes in steel paltes at connecting points															
05052190	0300	05	Welding structural steel in field, cost per welder, 1/8" dia, type 6011, incl 1 operating engineer	40.00	hour		190.63	7,625.15	6.40	256.00	20.24	8,690.75	809.60					5,937
			2-man welder crew on site for 1-week each to for erection of building															
05052325	0200	05	High strength bolt, 3/4" dia x 2' L, A325 Type 1, incl washer & nut	148.00	EA		6.63	981.93	2.81	415.88		1,397.81						955
			bolts to erect structure															
05052355	1100	05	Rivet, stainless rivet, steel mandrel, 1/2" grip length x 3/16" dia	1.00	C		179.54	179.54	11.90	11.90		191.44						131
			fasteners															
05052355	1600	05	Power riveting tool, standard	1.00	EA				515.00	515.00		515.00						352
05122310	1200	05	Ceiling support, structural framing, lintels or shelf angles for exterior perimeter, hung, shop fabricated, incl galvanizing	64.00	LF		11.96	765.48	22.50	1,440.00	0.61	2,244.20	38.72					1,533
			perimeter framing of structure															
05122340	0470	05	Angle framing, structural steel, 2"x2"x1/4", field fabricated, incl cutting & welding	10.00	LF		26.78	267.83	3.13	31.30	1.80	317.17	18.04					217
			angle iron at OH door in slab															
05122340	0738	05	Zee framing, structural steel, field fabricated, 3-1/2"x6"x3-1/2", incl cutting & welding	256.00	LF		15.08	3,859.34	5.45	1,395.20	1.01	5,513.62	259.07					3,766
			Zee framing of walls and roof															
05122340	1420	05	Tie rod, not upset, no turnbuckle, 1-1/2" to 4" dia, shop fabricated, incl shop primer, fasteners	100.00	lb		2.27	227.06	2.05	205.00		432.06						295
			wind brace of walls															
05122365	2230	05	Steel plate, 3/4" T, warehouse price, no shop fabrication, welded in place	16.00	SF		10.30	164.73	32.00	512.00	2.33	714.04	37.31					488
			plates used to fabricate frame system															
05122377	3800	05	Structural steel project, simple commercial building, 100-ton project, 1 story, A992 steel, shop fabricated, incl shop primer, moment/composite connections	3.00	ton		1,428.73	4,286.20	4,425.00	13,275.00	555.50	19,227.70	1,666.50					13,134
			Building kit															
05122378	0215	05	Eave strut, C-shape, 6" x 4" x 3", 14 ga., 3.9 lb/LF, shop fabricated, includes primer coat, clips and bolts, materials only	64.00	LF				5.75	368.00		368.00						251
05312350	3050	05	Metal roof decking, steel, open type B wide rib, galvanized, under 50 Sq. 1-1/2" D, 16 gauge	1,082.00	SF		0.87	938.03	4.92	5,323.44	0.04	6,309.08	47.61					4,310
			sheet panels for walls and roof															
07			Thermal and Moisture Protection					1,488.16		1,077.18		2,565.34						1,752
07211610	2150	07	Blanket insulation for floors/ceilings, fiberglass, paper or foil backing, 1 side, 6-1/4" thick, R19, incl. spring type wire fasteners	1,082.00	SF		1.19	1,289.32	0.99	1,071.18		2,360.50						1,612
			wall and ceiling insulation															
07261310			Vapor retarders, building paper, polyethylene vapor barrier, standard, 6 mil (.006" thick), 9' x 400' roll	1.00	sq		19.30	19.30	6.00	6.00		25.30						17
07261310	9950	07	Vapor retarders, minimum labor and equipment charge	1.00	Job		179.54	179.54				179.54						123
			labor for slab vapor barrier															
08			Openings					2,041.42		2,753.42		4,794.84						3,275
08121313	0100	08	Frames, steel, knock down, hollow metal, single, 16 ga., up to 5-3/4" deep, 3'-0" x 7'-0"	1.00	EA		89.77	179.54	175.00	175.00		264.77						181
			new hollow metal frames															
08121313	4900	08	Frames, steel, knock down, hollow metal, for welded frames, add	1.00	EA				124.00	124.00		124.00						85
			add for welded frames															
08131325	0560	08	Doors, exterior, steel, commercial, flush, 20 ga., 1-3/4" x 7'-0" x 3'-0" wide	1.00	EA		102.48	102.48	560.00	560.00		662.48						453
			new metal doors on new building and kennel building															
08332310	0101	08	Doors, rolling service, steel, manual, 20 gauge, 10' x 10' high, incl. hardware, L4 crew	1.00	EA		1,463.09	1,463.09	785.00	785.00		2,248.09						1,536
08332310	3000	08	Doors, rolling service, steel, manual, for 18 gauge doors, add	72.00	SF				1.59	114.48		114.48						78
08332310	3300	08	Doors, rolling service, steel, manual, for enamel finish, add	72.00	SF				2.97	213.84		213.84						146
08332310	4000	08	Doors, rolling service, steel, manual, for weatherstripping, extruded rubber, jams, add	10.00	LF				2.21	22.10		22.10						15
08332310	4200	08	Doors, rolling service, steel, manual, for weatherstripping, sill, extruded rubber, add	10.00	LF				9.65	96.50		96.50						66
08712030	8150	08	Door hardware, door closer, surface mounted, heavy duty, parallel arm, modern	1.00	EA		119.16	119.16	355.00	355.00		474.16						324
			new ped door items															
08712090	1480	08	Door hardware, hinges, full mortise, high frequency, brass base, US10B, 4-1/2" x 4-1/2"	2.00	pair				126.00	252.00		252.00						172
			new ped door items															
08712510	2700	08	Weatherstripping, doors, metal frame, extruded sections, aluminum, for 3' x 7' door	1.00	Opng		238.32	238.32	33.50	33.50		271.82						186
			new ped door items															
08712510	3650	08	Weatherstripping, for thresholds, door sweep, flush mounted, aluminum	1.00	EA		28.60	28.60	22.00	22.00		50.60						35
			new ped door items															
09			Finishes					546.31		95.52		641.83						438
09019093	0080	09	Surface preparation, exterior, doors, per side, wire brush, metal, flush, excl. frames or trim	150.00	SF		0.95	142.34				142.34						97
			prep new ped door and overhead door for paint															
09911370	0140	09	Paints & coatings, exterior door frames & trim only, brushwork, primer + 2 coats, exterior latex	18.00	LF		2.28	40.99	0.39	7.02		48.01						33
09911370	0190	09	Paints & coatings, exterior doors, flush, both sides, roll & brush, primer + 2 coats, exterior latex, incl. frame & trim	3.00	EA		120.99	362.97	29.50	88.50		451.47						308
			paint 1 new metal ped door and OH door															
26			Electrical					7,803.34		1,674.84		9,478.18						6,475
26050510	0170	26	Conduit, PVC #40, 1/2" to 1" diameter, electrical demolition, remove conduit to 10' high, including fittings & hangers	80.00	LF		1.98	158.54										108
26050510	0200	26	Conduit, electric metallic tubing (EMT), 1/2" to 1" diameter, electrical demolition, remove conduit to 10' high, including fittings & hangers	50.00	LF		2.06	102.93				102.93						70
26050510	1720	26	Junction boxes, 4" square & octagon, electrical demolition, remove, including removal of supports and terminations	3.00	EA		10.14	30.42				30.42						21
26050510	1840	26	Wire, THW-THWN-THHN, #12, electrical demolition, removed from in place conduit, to 10' high	4.00	Cir		14.82	59.30				59.30						41
26050510	2440	26	Fluorescent fixtures, interior, industrial, 2 lamp, 8' long, electrical demolition, remove, pendant mount, to 10' high, including removal of chain or rod hanger	14.00	EA		59.91	838.79				838.79						573
26050520	5020	26	Conduit nipples, 1/2" diameter, electrical demolition, remove, incl locknuts and bushings	10.00	EA		7.53	75.28				75.28						51
26050520	6510	26	Equipment connection, to 15 to 30 HP, electrical demolition, remove	2.00	EA		45.32	90.64				90.64						62
			disconnect incinerator and wall fan power															
26050550	4200	26	Fluorescent fixture, explosionproof, electrical demolition, remove	14.00	EA		100.62	1,408.74				1,408.74						962
26051935	0045	26	Wire connector, screw type, insulated, #12 to #6	81.00	EA		4.52	365.84	0.48	38.88		404.72						276
26051990	1200	26	Wire, copper, stranded, 600 volt, #12, type THWN-THHN, normal installation conditions in wireway, conduit, cable tray	7.00	Cir		73.74	516.18	35.00	245.00		761.18						520
26052920	0800	26	Strap, steel, 2 holes, EMT, 3/4" diameter	24.00	EA		1.84	44.24	0.23	5.52		49.76						34
26053313	5020	26	Electric metallic tubing (EMT), 3/4" diameter, to 10' high, incl 2 terminations, 2 field bend elbows, 11 beam clamps, and 11 couplings per 100 LF	160.00	LF		6.25	1,000.41	1.23	196.80		1,197.21						818
26053313	5220	26	Electric metallic tubing (EMT), field bends, 45 Deg. to 90 Deg., 3/4" diameter	16.00	EA		10.14	162.23				162.23						111
26053313	5340	26	EMT offsets, 3/4" diameter, to 15' H	6.00	EA		13.13	78.81				78.81						54
26053313	6220	26	EMT couplings, set screw, steel, 3/4" diameter, to 15' H	16.00	EA		4.33	69.32	1.31	20.96		90.28						82
26053313	6520	26	EMT boxes connectors, set screw, steel, 3/4" diameter, to 15' H	15.00	EA		7.39	110.84	0.96	14.40		125.24						86
26053313	7420	26	EMT-LB, LR or LL fittings with covers, set screw, 3/4" diameter, to 15' H	2.00	EA		40.71	81.42	8.45	16.90		98.32						67
26053313	9110	26	PVC conduit, schedule 40, 3/4" diameter, to 10' H, incl terminations, fittings, & support	70.00	LF		5.61	392.51	1.24	86.80		479.31						327
26053313	9314	26	PVC conduit couplings, 3/4" diameter, to 15' H	7.00	EA		19.36	135.50	0.23	1.61		137.11						94
26053313	9350	26	PVC conduit, field bends, 45 Deg. to 90 Deg., 3/4" diameter	2.00	EA		20.36	40.71				40.71						28
26053313	9470	26	PVC adapters, 3/4" diameter, to 15' H	2.00	EA		19.36	38.71	0.31	0.62		39.33						27
26053316	0370	26	Outlet boxes, pressed steel, 4-11/16" square, 2-1/8" deep, 3/4" to 1-1/4" KO	10.00	EA		40.71	407.11	5.25	52.50		459.61						314
26053316	0450	26	Outlet boxes, pressed steel, covers, blank, 4-11/16" square	5.00	EA		15.36	76.81	1.57	7.85		84.66						58
26053316	1510	26	Outlet boxes, cast, switch cover, 1 gang, FS	1.00	EA		12.75	12.75	7.25	7.25		20.00						14
26053316	1530	26	Outlet boxes, cast, duplex receptacle cover, 1 gang, FS	1.00	EA		12.75	12.75	7.20	7.20		19.95						

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26053930	4400	26	Rigid galvanized steel conduit, 3/4" diameter, in concrete slab, incl terminations, fittings and supports	10.00	LF		4.79	47.93	2.94	29.40		77.33					53
26058310	0100	26	Motor connections, flexible conduit and fittings, 1 phase, 115 volt, 3 HP motor	1.00	EA		148.25	148.25	9.65	9.65		157.90					108
26059010	3380	26	Combination devices, residential, S.P. switch/receptacle, #12/2, EMT & wire, 20', 20 amp, incl box & cover plate	2.00	EA		198.18	396.35	67.50	135.00		531.35					363
26511310	0240	26	Fixture hangers, canopy	2.00	EA	Kenr wall enck door	67.60	135.19	9.00	18.00		153.19					105
26511355	3030	26	Interior LED fixtures, linear, suspended mounted, 148 watt, two light bar 8' long, incl lamps, mounting hardware and connections	2.00	EA		184.35	368.70	370.00	740.00		1,108.70					757
	new strip lights in building and kennels																
26611330	0360	26	Fixture whips, 3/8" greenfield, 2 connectors, THHN wire, three #12, 6' long	2.00	EA		25.43	50.85	10.85	21.70		72.55					50
31 Earthwork								14,319.41	5,315.25	22,151.16	2,516.49						15,131
31221320	0100	31	Rough grading sites, 400 S.F. or less, hand labor	1.00	EA		877.08	877.08				877.08					599
	grade slab																
31221320	0100	31	Rough grading sites, 400 S.F. or less, hand labor	1.00	EA		877.08	877.08				877.08					599
	grade ramp and landing																
31221320	0130	31	Rough grading sites, 1,100-3,000 S.F., skid steer & labor	1.00	EA		1,245.77	1,245.77			192.50	1,438.27	192.50				982
	cut slab																
31221320	0130	31	Rough grading sites, 1,100-3,000 S.F., skid steer & labor	1.00	EA		1,245.77	1,245.77			192.50	1,438.27	192.50				982
	cut ramp and landing																
31221610	1150	31	Fine grading, fine grade for slab on grade, hand grading	330.00	SY		2.51	829.20			0.22	901.80	72.60				616
	hand grade and rake before sod																
31221610	0100	31	Fine grading, machine grading, includes compaction, minimum labor/equipment charge	1.00	Job		667.77	667.77			423.50	1,091.27	423.50				745
	blade area after concrete poured																
31231616	0100	31	Structural excavation for minor structures, bank measure, heavy soil or clay, pits to 6' deep, by hand	6.00	B.C.Y.		144.58	867.49				867.49					593
	excavate grade beam																
31231616	0100	31	Structural excavation for minor structures, bank measure, heavy soil or clay, pits to 6' deep, by hand	5.00	B.C.Y.	Kenr wall enck door	144.58	722.91				722.91					494
	ditch for electric conduit to building																
31231616	0100	31	Structural excavation for minor structures, bank measure, heavy soil or clay, pits to 6' deep, by hand	2.00	B.C.Y.	Kenr wall enck door	144.58	289.16				289.16					198
	ditch for gas line to building																
31232313	0100	31	Backfill, heavy soil, by hand, no compaction	5.00	L.C.Y.		52.43	262.15				262.15					179
	back fill ditch from electrical run to building																
31232313	0100	31	Backfill, heavy soil, by hand, no compaction	2.00	L.C.Y.	Kenr wall enck door	52.43	104.86				104.86					72
	back fill gas ditch																
31232313	0300	31	Backfill, 6" layers, compaction in layers, hand tamp, add	5.00	E.C.Y.		28.12	140.61				140.61					96
	compact electrical ditch																
31232313	0300	31	Backfill, 6" layers, compaction in layers, hand tamp, add	2.00	E.C.Y.	Kenr wall enck door	28.12	56.24				56.24					38
	compact gas line ditch																
31232315	0200	31	Borrow, material only, bank run gravel	26.00	ton				19.50	507.00		507.00					346
	material only for select fill to build pad																
31232315	1000	31	Borrow, bank run gravel, hand spread	26.00	ton		39.73	1,033.08			2.83	1,106.58	73.50				756
	spread select fill for pad																
31232315	1820	31	Borrow, delivery charge, minimum 20 tons, 1-1/2 hour round trip, add	26.00	ton		7.27	188.96			9.07	424.91	235.95				290
	delivery of select fill																
31232315	7000	31	Borrow, topsoil or loam, 1 C.Y. bucket, loading and/or spreading, from stockpile, shovel	26.00	B.C.Y.		1.63	42.47	20.50	533.00	1.62	617.51	42.04				422
	load select fill at soil yard																
31232316	0200	31	Fill by borrow and utility bedding, for pipe and conduit, sand, dead or bank, excludes compaction	7.00	L.C.Y.	Kenr wall enck door	12.46	87.20	13.70	95.90	2.41	199.97	16.86				137
	back fill electrical and plumbing ditch																
31232316	0500	31	Fill by borrow and utility bedding, for pipe and conduit, compacting bedding in trench	7.00	E.C.Y.	Kenr wall enck door	6.43	45.04			1.38	54.67	9.63				37
	compact back fill of electrical and plumbing ditch																
31232317	0100	31	Fill, dumped material, spread, by hand, excludes compaction	26.00	L.C.Y.	Kenr wall enck door	48.46	1,259.93				1,259.93					861
	placing select fill for building pad																
31232320	0336	31	Cycle hauling(wait, load, travel, unload or dump & return) time per cycle, excavated or borrow, loose cubic yards, 25 min wait/load/unload, 8 C.Y. truck, cycle 8 miles, 20 MPH, excludes loading equipment	13.00	L.C.Y.	Kenr wall enck door	8.45	109.81			5.39	179.88	70.07				123
	haul off spoils from piers, foundation and pad																
31232324	0020	31	Compaction, structural, 5 tons, steel wheel tandem roller	8.00	hour		130.01	1,040.09			36.30	1,330.49	290.40				909
	compaction of grade for pad after cut and 2-lifts of select fill																
31632913	1380	31	Uncased drilled concrete piers, end bearing, fluted constant diameter, steel, 4,000 psi concrete, 7 ga., 50' long, 16" diameter, priced using 200 piles, 60' long, unless specified otherwise, excludes pile caps, mobilization, or reinforcing	60.00	vft		11.53	691.85	43.00	2,580.00	4.44	3,538.49	266.64				2,417
	16" piers for new building-4 at 15' each																
31632920	1500	31	Cast-in place adds for drilled concrete piers, for reinforcing steel, add	803.00	lb				1.45	1,164.35		1,164.35					795
	pier rebar																
31632920	1700	31	Cast-in place adds for drilled concrete piers, for ball or pedestal end, add	3.00	CY		544.95	1,634.85	145.00	435.00	210.10	2,700.15	630.30				1,844
	drill out bells on the piers																
32 Exterior Improvements								3,325.94	4,698.64	8,732.12	707.54						5,965
32311320	0500	32	Fence, chain link industrial, galvanized steel, 6 ga. wire, 2" posts @ 10' OC, 6' high, includes excavation, & concrete	22.00	LF	Kenr wall enck door	7.51	165.15	27.50	605.00	1.78	809.35	39.20				553
	replacement fence at drive gate location																
32311320	5060	32	Fence, chain link industrial, double swing gates, 6' high, 12' opening, includes excavation, posts & hardware in concrete	1.00	Opng	Kenr wall enck door	564.59	564.59	490.00	490.00	134.20	1,188.79	134.20				812
32311320	7055	32	Fence, chain link industrial, braces, galvanized steel, 6 ga. wire	22.00	LF	Kenr wall enck door	1.81	39.85	3.12	68.64	0.43	117.93	9.44				81

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32311320	9000	32	Fence, chain link industrial, minimum labor/equipment charge	1.00	Job	Kenf wall enck door	1,260.22	1,260.22			298.10	1,558.32	298.10				1,064
remove old wooven 2-layer fabric that was installed to prevent bird entry																	
32311330	6660	32	Fence, chain link, gates & posts, end posts, chain link fence, galvanized steel, 3" OD, 4', set in concrete, includes excavation	4.00	EA	Kenf wall enck door	37.02	148.08	35.50	142.00	8.74	325.06	34.98				222
new end and gate posts																	
32311330	7780	32	Chain link fence gates and posts, chain link fence gates and posts, 6' high, excludes excavation	5.00	LF	Kenf wall enck door	87.67	438.37	137.00	685.00	22.55	1,236.12	112.75				844
32311330	7925	32	Chain link fence gates and posts, auger fence post hole, medium soil, 3' deep, by machine, includes excavation	9.00	EA	Kenf wall enck door	14.41	129.72			3.41	160.41	30.69				110
drill post holes																	
32312610	1200	32	Wire fences and gates, fence, miscellaneous metal, kennel fencing, top covers, 6' long, 1-1/2" mesh	1.00	EA		77.06	77.06	158.00	158.00		235.06					161
hang gate unit in cat area																	
32922310	1100	32	Sodding, bent grass sod, on level ground, 3 M.S.F.	3.00	Msf		167.63	502.90	850.00	2,550.00	16.06	3,101.08	48.18				2,118
sod around new building once work is complete																	
33 Utilities																	
33059705	0020	33	Utility connection, water, sanitary, stormwater, gas, single connection	1.00	EA		3,630.71	3,630.71	3,050.00	3,050.00	363.00	7,043.71	363.00				4,812
gas line to incinerator																	
33593310	0640	33	Natural gas metering, pressure regulator valves, iron and bronze, 1-1/2" diameter, excludes excavation or backfill	1.00	EA		66.29	66.29	150.00	150.00		216.29					148
gas regulator for incinerator																	
Grand Total								74,822.70	51,630.66		149,635.15		19,532.17	3,649.63		102,216	

[illegible]

Labor Rate Table	2022 RS Means Facilities Construction with O&P
Equipment Rate Table	2022 RS Means Equipment with O&P

Client	City of Port Lavaca
Project	Animal Control Center
Location	Alternate Block Wall and Roll Up Doors
B&R RFP Number	RFP #008
Contractor	Brown & Root Industrial Services, LLC / On Call Construction
Date	October 12, 2022

Master Format Code	Item Code	Division Code	Item Description	Takeoff Qty	Unit	Loc	Labor Unit Price	Labor Total	Mat Unit Price	Mat Total	Equip Unit Price	Grand Total	Equip Total	Subs Total	Other Total	User Total	w/CCI & Coef Applied	Total
01			General Conditions					15,782.61		2,111.80		39,843.11	15,802.58		6,146.13			27,217
01311390	0100	01	Performance Bond, for buildings, maximum	245,845.00	%Job							6,146.13						4,198
01541650	0100	01	Forklift crew, all-terrain forklift, 45' lift, 35' reach, 9000 lb. capacity, weekly use	1.00	week		3,544.21	3,544.21			3,465.00	7,009.21	3,465.00		6,146.13			4,788
01542370	0090	01	Equipment to move and stage block for new wall Scaffolding, steel tubular, regular, labor only to erect & dismantle, building exterior, wall face, 6'-4" x 5' frames, 1 to 5 stories, excludes planks	20.00	Csf		268.51	5,370.18				5,370.18						3,668
01542370	0908	01	scaffold items for new wall construction Scaffolding, steel tubular, regular, rent/month only for complete system for face of walls, 6' -4" x 5' frames, excludes planks	20.00	Csf				83.00	1,660.00		1,660.00						1,134
01542370	2850	01	Scaffolding, steel tubular, regular, accessory, plank, rent/mo, 2" x 10" x 16' long	36.00	EA				10.05	361.80		361.80						247
01542370	5700	01	Scaffolding, planks, labor only to install & remove, 2"x10"x16", up to 50' high	36.00	EA		29.79	1,072.45				1,072.45						733
01543320	0075E	01	Rent auger, truck-mounted, for caissons, water wells - Crew daily cost	5.00	days						785.64	3,928.20	3,928.20					2,683
01543320	0460A	01	equipment on site for soil extraction Rent backhoe-loader wheel type 80 HP 1-1/4 CY capacity - Hourly operating cost	40.00	hour						20.95	838.00	838.00					572
01543320	0460C	01	Rent backhoe-loader wheel type 80 HP 1-1/4 CY capacity - Rent per week	1.00	week						1,173.89	1,173.89	1,173.89					802
01543320	0482A	01	Rent backhoe-loader attachment, compactor, 20,000 lb. - Hourly operating cost	16.00	hour						6.63	106.08	106.08					72
01543320	0482B	01	attachment on backhoe to compact soils Rent backhoe-loader attachment, compactor, 20,000 lb. - Rent per day	2.00	days						390.56	781.12	781.12					534
01543320	0482E	01	Rent backhoe-loader attachment, compactor, 20,000 lb. - Crew daily cost	2.00	days						253.34	506.68	506.68					346
01543320	1350A	01	Rent vibratory plate compactor 21" plate 5000 lb blow - Hourly operating cost	8.00	hour						2.69	21.52	21.52					15
01543320	1350B	01	equipment for compacting Rent vibratory plate compactor 21" plate 5000 lb blow - Rent per day	2.00	days						206.56	413.12	413.12					282
01543320	1350E	01	Rent vibratory plate compactor 21" plate 5000 lb blow - Crew daily cost	2.00	days						137.11	274.22	274.22					187
01543320	3860A	01	shovel for backhoe to extract soils Rent shovel/backhoe bucket, 1/2 CY - Hourly operating cost	20.00	hour						2.77	55.40	55.40					38
01543320	3860B	01	Rent shovel/backhoe bucket, 1/2 CY - Rent per day	5.00	days						74.00	370.00	370.00					253
01543320	3860E	01	Rent shovel/backhoe bucket, 1/2 CY - Crew daily cost	5.00	days						68.13	340.65	340.65					233
01543340	0020A	01	Rent aerial lift, scissor type, to 20' high, 1200 lb. capacity, electric - Hourly operating cost	24.00	hour						3.59	86.16	86.16					59
01543340	0020B	01	equipment for installation of OH doors Rent aerial lift, scissor type, to 20' high, 1200 lb. capacity, electric - Rent per day	3.00	days						183.89	551.67	551.67					377
01543340	0020E	01	Rent aerial lift, scissor type, to 20' high, 1200 lb. capacity, electric - Crew daily cost	3.00	days						103.86	311.58	311.58					213
01543340	3430A	01	Gen equip. rental: level, laser type, for pipe and sewer line and grade - Hourly operating cost	24.00	hour						2.24	53.76	53.76					37
01543340	3430B	01	equipment for grade shots Gen equip. rental: level, laser type, for pipe and sewer line and grade - Rent per day	3.00	days						152.86	458.58	458.58					313
01543340	3430E	01	Gen equip. rental: level, laser type, for pipe and sewer line and grade - Crew daily cost	3.00	days						98.20	294.60	294.60					201
01543340	6410D	01	Rent toilet portable chemical - Rent per month	1.00	mnth						210.00	210.00	210.00					143
01543340	6410E	01	additional time portacan on site for crews usage due to scope expansion Rent toilet portable chemical - Crew daily cost	20.00	days						15.61	312.20	312.20					213
01543650	1200	01	portacan on site for crews usage Mobilization or demobilization, delivery charge for small equipment, placed in rear of, or towed by pickup truck	4.00	EA		177.60	710.40			49.50	908.40	198.00					621
01543650	1400	01	mob and demob small equipment and crews for CMU and concrete work Mobilization or demobilization, delivery charge for equipment, hauled on 20-ton capacity towed trailer	4.00	EA		693.08	2,772.34			253.00	3,784.34	1,012.00					2,585
01712313	1200	01	mob and demob large equipment for concrete and CMU work Boundary & survey markers, crew for building layout, 3 person crew	1.00	days		2,313.03	2,313.03			40.15	2,353.18	40.15					1,607
01712319	0020	01	lay out new wall piers and beam Surveyor stakes, hardwood, 1" x 1" x 48" long	1.00	C				90.00	90.00		90.00						61
02			Existing Conditions					2,953.03		2,412.00		5,598.58	233.55					3,824
02411360	0700	02	Fencing demolition, remove snow fence, 4' high	200.00	LF		1.88	375.31			0.36	447.91	72.60					306
02411360	1700	02	remove 2-layers of 1" mesh wrapped on fence Fencing demolition, remove chain link posts & fabric, 8' to 10' high	100.00	LF		4.19	419.46			0.81	500.86	81.40					342
02411362	1000	02	demo chain link fabric where wall installs Selective demolition, chain link fences & gates, fence, posts, steel in concrete	12.00	EA		23.34	280.06			4.52	334.31	54.25					228
02411362	1400	02	remove fence posts at new wall Selective demolition, chain link fences & gates, fence, fabric & accessories, fence rails	100.00	LF		0.93	93.04			0.18	110.64	17.60					76
02411362	1500	02	remove fence top rail at new wall Selective demolition, chain link fences & gates, fence, fabric & accessories, reinforcing wire	100.00	LF		0.38	37.85			0.08	45.55	7.70					31
02411368	0300	02	remove wire along bottom of fence run Selective demolition, wood fences & gates, fence, to 8' high	52.00	LF		3.15	163.58				163.58						112
02411368	0400	02	remove wood screen wall Selective demolition, wood fences & gates, post in concrete	8.00	EA		23.20	185.57				185.57						127
02411919	0600	02	remove wood screen wall posts Selective demolition, rubbish handling, dumpster, 30 C.Y., 7 ton capacity, weekly rental, includes one dump per week, cost to be added to demolition cost	3.00	week				730.00	2,190.00		2,190.00						1,496
02411919	2040	02	additional time dumpster on site for debris collection Selective demolition, rubbish handling, 0'-100' haul, load, haul, dump and return, hand carried, cost to be added to demolition cost	20.00	CY		69.91	1,398.16				1,398.16						955
02411920	0100	02	additional haul of trash to dumpster from demo for and building new wall systems Selective demolition, dump charges, typical urban city, building construction materials, includes tipping fees only	3.00	ton				74.00	222.00		222.00						152
03			Concrete					8,052.19		7,257.34		15,409.63	100.10					10,526
03111345	5000	03	forms set on 1-side for grade/slab extension beams C.I.P. concrete forms, footing, spread, plywood, 1 use, includes erecting, bracing, stripping and cleaning	250.00	sfca		8.98	2,244.20	3.13	782.50		3,026.70						2,068
03150512	2200	03	strip set in forming for overhead door step down Chamfer strip, polyvinyl chloride, 3/4" wide with leg	100.00	LF		1.37	136.64	0.89	89.00		225.64						154
03150530	8600	03	tie wire for rebar Tie wire, for reinforcing steel, 16 gauge, black annealed	1.00	Cwt				167.00	167.00		167.00						114
03211160	0602	03	rebar and stirrups for grade beams Reinforcing steel, in place, slab on grade, #3 to #7, A615, grade 60, incl labor for accessories, excl material for accessories	2,855.00	lb		0.72	2,053.25	0.73	2,084.15		4,137.40						2,826
03211160	1000	03	adder for under 10 tons of rebar Reinforcing steel, in place, under 10 ton job, #3 to #7, add	3,557.00	%		0.10	355.70	0.25	889.25		1,244.95						850
03211160	2000	03	shake out rebar Reinforcing steel, unload and sort, add to base	3.00	ton		53.01	159.04			23.10	228.34	69.30					156
03211160	2400	03	dowel new concrete into existing foundation every 18" Reinforcing steel, in place, dowels, deformed, 2' long, #3, A615, grade 60	69.00	EA		2.92	201.73	0.60	41.40		243.13						166
03211160	2615	03	placing sleeves onto dowels Dowel sleeve, plastic, 12" long for 5/8" smooth dowel, snap onto plastic base	18.00	EA		1.89	34.05	1.41	25.38		59.43						41
03211160	2750	03	caps placed on rebar stabbed out of the foundation for CMU wall Dowel cap, impalement protective, plastic, #4 to #9	70.00	EA		1.89	132.42	1.60	112.00		244.42						167
03311335	0200	03	concrete for spread ffootong and pier caps Structural concrete, ready mix, heavyweight, 3500 psi, includes local aggregate, sand, Portland cement (Type I) and water, delivered, excludes all additives and treatments	18.00	CY				161.00	2,898.00		2,898.00						1,980
03311335	1410	03	concrete add mix Structural concrete, ready mix, for mid-range water reducer, add	18.00	CY				4.27	76.86		76.86						53
03311335	1430	03	concrete add mix Structural concrete, ready mix, for retarder, add	18.00	CY				5.10	91.80		91.80						63
03311370	9000	03	concrete add mix Structural concrete, placing, minimum equipment/labor charge, includes leveling (strike off) & consolidation	1.00	Job		1,777.19	1,777.19			30.80	1,807.99	30.80					1,235
03351330	9100	03	placing concrete in spread footing Concrete finishing, minimum labor/equipment charge, excl placing, striking off & consolidating	1.00	Job		957.97	957.97				957.97						654
04			Masonry					43,055.98		28,184.03		71,608.78	368.76					48,916

Master Format Code	Item Code	Division Code	Item Description	Takeoff Qty	Unit	Loc	Labor Unit Price	Labor Total	Mat Unit Price	Mat Total	Equip Unit Price	Grand Total	Equip Total	Subs Total	Other Total	User Total	Total w/CCI & Coef Applied
04012052	0240	04	Cleaning masonry, new construction, heavy construction dust, drips or stains, by chemical, brush and rinse, excludes scaffolding	910.00	SF		2.15	1,953.47	0.12	109.20		2,062.67					1,409
	Wash block walls after construction																
04051330	2100	04	Mortar, portland cement and lime, 1:1/4:3 mix, type M	910.00	CF		4.04	3,674.22	14.35	13,058.50		16,732.72					11,430
	mortar for wall in fills																
04051630	0350	04	Grout, concrete masonry unit (CMU) cores, 12" thick, 0.422 C.F./S.F., pumped, excludes blockwork	910.00	SF		4.02	3,659.77	2.24	2,038.40	0.24	5,918.39	220.22				4,043
	grouting of block cells																
04051630	0850	04	Grout, door frames, 6' x 7" opening, 3.5 C.F. per opening	6.00	Opng		57.23	343.36	18.60	111.60	3.39	475.29	20.33				325
	grout door openings																
04051630	2000	04	Grout, for bond beams, lintels and concrete masonry unit (CMU) cores, C476, includes material only	100.00	CF		7.34	734.40	5.30	530.00	0.44	1,308.40	44.00				894
	bond beam along top of walls																
04051926	0050	04	Masonry reinforcing bars, #3 and #4 reinforcing steel bars, placed vertically, ASTM A615	2,021.00	lb		2.02	4,078.94	0.73	1,475.33		5,554.27					3,794
	rebar called out for connection to beam, bond beam and verticle ties																
04221014	1250	04	Concrete block, back-up, normal weight, tooled joint one side, 2000 psi, 12" x 8" x 16", includes mortar and horizontal joint reinforcing every other course, excludes scaffolding, vertical reinforcing and grout	910.00	SF		12.82	11,662.52	4.66	4,240.60		15,903.12					10,863
	12" CMU wall blocks																
04221016	2150	04	Concrete block, bond beam, normal weight, 2000 psi, 12" x 8" x 16", includes mortar, grout and 2-#5 horizontal reinforcing bars, excludes scaffolding and vertical reinforcing	100.00	LF		15.38	1,537.92	9.55	955.00		2,492.92					1,703
	bond beam along the top of the new walls																
04221024	0300	04	Concrete block, exterior, tooled joints both sides, normal weight, 2000 psi, 12" x 8" x 16", includes mortar and horizontal joint reinforcing every other course, excludes scaffolding, grout and vertical reinforcing	910.00	SF		15.38	13,995.03	5.00	4,550.00		18,545.03					12,668
	tooling block joints each side of wall																
04221032	1700	04	Concrete block, lintel, 2000 psi, 8" x 16" x 12", includes mortar, grout and 2-#5 horizontal reinforcing bars, excludes scaffolding and vertical reinforcing	132.00	LF		10.73	1,416.35	8.45	1,115.40	0.64	2,615.96	84.22				1,787
	lintels at door openings																
05			Metals					23,158.46		4,922.70		30,213.60		2,132.44			20,639
05011051	6270	05	Metal cleaning, steel surface treatment, 12.0 lb sand per S.F., near white blast, existing coat badly pitted, nodules (SSPC-SP10)	214.00	SF		17.47	3,738.06	2.14	457.96	2.28	4,683.30	487.28				3,199
	cleaning angle after prep and prior to galvanizing																
05051350	5000	05	Paints and protective coatings, galvanizing structural steel in shop, under 1 ton, hot dip	1.00	ton				695.00	695.00		695.00					475
	hot dip galvanizing angle irons																
05051910	1430	05	Chemical anchor, 3/4" diameter x 9-1/2" L, in concrete, brick or stone, incl layout, drilling, threaded rod & epoxy cartridge	50.00	EA		49.14	2,457.01	7.70	385.00	4.85	3,084.56	242.55				2,107
	anchors to secure buck to top of wall																
05051920	1100	05	Anchor, expansion shield, zinc, 3/4" dia x 3-15/16" L, double, in concrete, brick or stone, excl layout & drilling	140.00	EA		11.04	1,545.91	6.45	903.00		2,448.91					1,673
	secure 2 1/2x2 1/2 angle to wall and 3x3 angle																
05052110	9000	05	Cutting, steel, incl prep, torch cutting & grinding, excl staging, minimum labor/equipment charge	1.00	Job		407.32	407.32			7.37	414.69	7.37				283
	cutting steel angle for doorways																
05052115	1945	05	Drilling holes in steel for anchors, 1/2" diameter, incl bit & layout, excludes anchor, for each additional 1/4" depth, add	140.00	EA		2.77	387.77	0.08	11.20		398.97					273
	drill out 2 1/2x2 1/2 angle to bolt it in to CMU wall and 3x3 angle																
05052190	0300	05	Welding structural steel in field, cost per welder, 1/8" dia, type 6011, incl 1 operating engineer	32.00	hour		190.63	6,100.12	6.40	204.80	20.24	6,952.60	647.68				4,749
	site fabing																
05052387	0500	05	Weld stud, 1/2" dia x 3-1/8" L	124.00	EA		1.57	194.49	0.83	102.92	0.56	366.97	69.56				251
	studs on 4" cleat to secure to wall and angle on door slab openings																
05122340	0470	05	Angle framing, structural steel, 2"x2"x1/4", field fabricated, incl cutting & welding	74.00	LF		26.78	1,981.96	3.13	231.62	1.80	2,347.07	133.50				1,603
	angle iron at overhead door pocket in slab																
05122340	0472	05	Angle framing, structural steel, 2-1/2"x2-1/2"x1/4", field fabricated, incl cutting & welding	40.00	LF		33.68	1,347.18	4.03	161.20	2.25	1,598.58	90.20				1,092
	2 1/2 x 2 1/2 angle baraces along ends of new wall																
05122340	0475	05	Angle framing, structural steel, 3"x3"x3/8", field fabricated, incl cutting & welding	100.00	LF		42.50	4,250.03	7.05	705.00	2.85	5,239.93	284.90				3,579
	angle on bucks along top of wall as called out on detail drawing																
05122365	2210	05	Steel plate, 1/4" T, warehouse price, no shop fabrication, welded in place	100.00	SF		7.49	748.61	10.65	1,065.00	1.69	1,983.01	169.40				1,355
	4" x 1/4" thick galv cleat																
06			Wood, Plastics, And Composites					2,370.03		631.40		3,001.43					2,050
06111024	5000	06	Wood framing, miscellaneous, nailers, treated, wood construction, 2" x 4"	90.00	LF		1.80	161.58	0.86	77.40		238.98					163
	treated 2x4 framing of wall																
06111024	8100	06	Wood framing, miscellaneous, stair stringers, 2" x 12"	200.00	LF		11.04	2,208.45	2.77	554.00		2,762.45					1,887
	2x12 presure treated blocking on top of wall																
07			Thermal and Moisture Protection					1,948.56		1,055.40		3,003.96					2,052
07251010	9960	07	Weather barriers, minimum labor and equipment charge	1.00	Job		357.48	357.48				357.48					244
	wrap on new wall																
07464610	0045	07	Fiber cement siding, lap siding, rough sawn texture, 5/16" thick x 8" wide, 6-3/4" exposure	160.00	SF		3.37	538.92	1.90	304.00		842.92					576
	siding on new end wall																
07651010	0100	07	Sheet metal flashing, aluminum, flexible, mill finish, .032" thick, including up to 4 bends	150.00	SF		4.71	707.23	4.24	636.00		1,343.23					918
	cap flashing on top of new walls																
07712310	0400	07	Aluminum downspouts, enameled, 3" x 4", .024" thick	30.00	LF		6.01	180.26	2.90	87.00		267.26					183
	remove and reinstall 3-10" downspouts																
07912310	0052	07	Pre-formed joint seals, backer rod, polyethylene, 1/2" dia	40.00	LF		1.54	61.51	0.16	6.40		67.91					46
	rod for joint sealant on verticle angle iron braces																
07921320	1800	07	Joint sealants, caulking and sealants, butyl based, bulk, 1/2" x 1/2", in place	40.00	LF		2.58	103.16	0.55	22.00		125.16					85
	sealing verticle angles to walls																
08			Openings					7,874.14		23,508.00		31,382.14					21,437
08361310	2300	08	Doors, overhead, commercial, stock, fiberglass and aluminum, heavy duty, sectional, 12' x 12' high, excl. frames	6.00	EA		953.29	5,719.72	3,375.00	20,250.00		25,969.72					17,740
	overhead door panels for 6 doors																
08361320	1800	08	Doors, residential, garage, overhead, door hardware, sectional	6.00	EA		179.54	1,077.21	370.00	2,220.00		3,297.21					2,252
	everhead door hardware																
08361320	1810	08	Doors, residential, garage, overhead, door tracks only	6.00	EA		179.54	1,077.21	173.00	1,038.00		2,115.21					1,445
	tracks for overhead door																
09			Finishes					6,131.02		1,384.48		7,515.50					5,134
09019092	0510	09	Paint preparation, surface protection, placement & removal, basic drop cloths	1,000.00	SF		0.09	94.90				94.90					65
	protect ground and slab when painting																
09911360	2400	09	Paints & coatings, siding, exterior, Texture 1-111 or clapboard, oil base, paint 2 coats, brushwork	64.00	SF		1.49	95.15	0.47	30.08		125.23					86
09911360	2600	09	Paints & coatings, siding, exterior, Texture 1-111 or clapboard, oil base, paint 2 coats, spray	120.00	SF		0.46	55.04	0.52	62.40		117.44					8
09911360	8000	09	Paints & coatings, siding, exterior, for latex paint, deduct	120.00	%S.F.				0.10	12.00		12.00					12
09911370	0190	09	Paints & coatings, exterior doors, flush, both sides, roll & brush, primer + 2 coats, exterior latex, incl. frame & trim	6.00	EA		120.99	725.95	29.50	177.00		92.95					617
09911390	0500	09	Paints & coatings, walls, concrete masonry units (CMU), porous, first coat, latex, brushwork	924.00	SF		0.95	876.83	0.12	110.88		987.71					675
	cut in base/block fill coat on both sides of CMU walls																
09911390	0510	09	Paints & coatings, walls, concrete masonry units (CMU), porous, second coat, latex, brushwork	462.00	SF		0.63	292.28	0.06	27.72		320.00					219
	cut in base/primer coat on CMU exterior side of walls																
09911390	0540	09	Paints & coatings, walls, concrete masonry units (CMU), porous, first coat, latex, roller	1,044.00	SF		0.41	429.31	0.09	93.96		523.27					357
	prime both sides of new CMU walls																
09911390	0550	09	Paints & coatings, walls, concrete masonry units (CMU), porous, second coat, latex, roller	522.00	SF		0.33	173.37	0.06	31.32		204.69					140
	paint exterior side of new CMU walls																
09965620	1900	09	Wall coating, high build epoxy, water based, 50 mil	522.00	SF		6.37	3,327.13	1.46	762.12		4,089.25					2,793
	2-coats epoxy on kennel side of new CMU wall																
09971323	6100	09	Paints and protective coatings, cold galvanizing in field, brush	100.00	SF		0.61	61.07	0.77	77.00		138.07					94
	field prime any touch up galvanizing																

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31			Earthwork					18,660.71		12,274.35		35,675.59	4,740.53				24,370
31066015	0520	31	Mobilization, to 36", set up and remove drill rig, for caissons, maximum	1.00	EA		7,589.22	7,589.22			1,732.50	9,321.72	1,732.50				6,368
			set up for pier drilling														
31221320	0100	31	Rough grading sites, 400 S.F. or less, hand labor	1.00	EA		877.08	877.08				877.08					599
			final hand grade beams prior to steel setting														
31221320	0130	31	Rough grading sites, 1,100-3,000 S.F., skid steer & labor	1.00	EA		1,245.77	1,245.77			192.50	1,438.27	192.50				982
			rough grade after piers and beam poured with backhoe														
31221610	9000	31	Fine grading, hand grading, includes compaction, minimum labor/equipment charge	1.00	Job	Kenr wall enck door	289.16	289.16				289.16					198
			hand grading once area is graded with equipment														
31221610	9100	31	Fine grading, machine grading, includes compaction, minimum labor/equipment charge	1.00	Job		667.77	667.77			423.50	1,091.27	423.50				745
			grade back along beams with bobcat after pouring concrete														
31231616	0100	31	Structural excavation for minor structures, bank measure, heavy soil or clay, pits to 6' deep, by hand	18.00	B.C.Y.		144.58	2,602.48				2,602.48					1,778
			excavation of grade beams														
31232313	0100	31	Backfill, heavy soil, by hand, no compaction	4.00	L.C.Y.		52.43	209.72				209.72					143
			back fill after beams poured														
31232313	0300	31	Backfill, 6" layers, compaction in layers, hand tamp, add	4.00	E.C.Y.		28.12	112.49				112.49					77
31232315	1840	31	Borrow, delivery charge, minimum 20 tons, 2 hour round trip, add	60.00	ton	Kenr wall enck door	10.44	626.36			12.98	1,405.16	778.80				960
			haul off spoils from site														
31232315	7000	31	Borrow, topsoil or loam, 1 C.Y. bucket, loading and/or spreading, from stockpile, shovel	31.00	B.C.Y.		1.63	50.64	20.50	635.50	1.62	736.26	50.13				503
			load spoils excavated for foundation, on to dump truck for removal														
31232317	0100	31	Fill, dumped material, spread, by hand, excludes compaction	4.00	L.C.Y.		48.46	193.84				193.84					132
31232323	9900	31	Compaction, minimum labor/equipment charge	1.00	Job		144.58	144.58				144.58					99
			compaction of area excavated														
31632913	1400	31	Uncased drilled concrete piers, end bearing, fluted constant diameter, steel, 4,000 psi concrete, 7 ga., 50' long, 18" diameter, priced using 200 piles, 60' long, unless specified otherwise, excludes pile caps, mobilization, or reinforcing	150.00	vft		12.48	1,871.79	47.50	7,125.00	4.82	9,719.49	722.70				6,639
			10-15' deep x 18" diameter piers = 150'														
31632920	1500	31	Cast-in place adds for drilled concrete piers, for reinforcing steel, add	2,713.00	lb				1.45	3,933.85		3,933.85					2,687
			rebar in piers														
31632920	1700	31	Cast-in place adds for drilled concrete piers, for ball or pedestal end, add	4.00	CY		544.95	2,179.81	145.00	580.00	210.10	3,600.21	840.40				2,458
			drill our bells														
32			Exterior Improvements					670.54		3,400.00		4,134.78	64.24				2,824
32922310	1100	32	Sodding, bent grass sod, on level ground, 3 M.S.F.	4.00	Msf		167.63	670.54	850.00	3,400.00	16.06	4,134.78	64.24				2,824
			repair sod from new walls														
Grand Total								130,657.27		87,141.50		247,387.10	23,442.20		6,146.13		168,990

CSI	Division	Labor	Mat	Subs	Equip	Other	User	Total
01	General Requirements	15,783	2,112		15,803	6,146		39,843
02	Site Construction	2,953	2,412		234			5,599
03	Concrete	8,052	7,257		100			15,410
04	Masonry	43,056	28,184		369			71,609
05	Metals	23,158	4,923		2,132			30,214
06	Wood & Plastics	2,370	631					3,001
07	Thermal & Moisture Protection	1,949	1,055					3,004
08	Doors & Windows	7,874	23,508					31,382
09	Finishes	6,131	1,384					7,515
31	Earthwork	18,661	12,274		4,741			35,676
32	Exterior Improvements	671	3,400		64			4,135
						City Cost Index Qrt 1-2022		-2,474
						Subtotal		244,913
						Standard Hour Coefficient .69		-75,923
						Subtotal		168,990
						Other Normal Hours		
						Total Estimate		168,990