



TO: Steve Lewis, City Manager
FROM: Terry Floyd, Development Coordinator
DATE: February 13, 2018
SUBJECT: Change Order #5 – Norman Public Library Central

City Council Resolution R-1112-55 grants administrative authority to the City Manager to approve change order requests up to \$40,000 or 10% of contract amount, whichever is less, and subsequently report those approvals to the City Council. Attached is a Change Order Summary and quote for additional work associated for structural steel joist adjustments, mechanical system revisions, electrical panelboard revisions, landscaping adjustments and plumbing fixtures for the Norman Public Library Central Project.

Due to the ongoing Norman Public Library Central Project, a change order is being requested by Flintco, LLC in the amount of \$22,088. This change order has been reviewed and is being recommended by the project architect, Meyers, Scherer and Rockcastle, Ltd. (MSR), and has been further reviewed and recommended by the NORMAN FORWARD program management firm, ADG. The change order is necessary because of field changes incurred for a number of items related to structural steel column lengths, a change in electrical boxes due to discontinuation of specified model, added light pole elements to accommodate future security camera placement, additional electrical work to accommodate the 24-hour library, additional bracing for the sail shade at the third floor balcony area. An accompanying Memo further explaining the adjustments has been provided by MSR. One (1) weather delay day was requested by the contractor for this Change Order due to high winds that affected the placement of structural steel and associated work on the 2nd and 3rd stories.

We have reviewed the change order with both MSR and ADG to confirm that the items listed therein are acceptable. At this time, we recommend approval of the change order from Flintco, LLC in the amount of \$22,088. Funding is available in account number 51-9507-455.6101 - Project NFB 016.

Reviewed by: Jeff Bryant, City Attorney *JHB*
Anthony Francisco, Finance Director *A. Francisco*

Approved by: *SL* Date: 2/20/18

Steve Lewis, City Manager

AIA Document G701™ – 2017

Change Order

PROJECT: <i>(Name and address)</i> Norman Public Library Central 103 West Acres Street Norman, OK 73069	CONTRACT INFORMATION: Contract For: General Construction Date: June 12, 2017	CHANGE ORDER INFORMATION: Change Order Number: 005 Date: January 9, 2018
OWNER: <i>(Name and address)</i> City of Norman 201 W. Gray Street Norman, OK 73069	ARCHITECT: <i>(Name and address)</i> MSR Design 710 S. 2nd Street, 8th Floor Minneapolis, MN 55401	CONTRACTOR: <i>(Name and address)</i> Flintco, LLC 2303 S Prospect Oklahoma City, OK 73129

THE CONTRACT IS CHANGED AS FOLLOWS:

(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.)

PCO-18 RFI #106 - site modification of structure	5,930.00
PCO-20 - RFI # 132 - added threated hubs at light poles for installation of owner provided equipment	
PCO-21 - credit for not installed gas sleeve	
PCO-22 - substitution for discontinued floor box	2,263.00
PCO-24R1 - additional structure required by subcontractor for delegated design of sun shades	8,747.00
PCO-27 - additional electrical for PLS requested heater @ owner provided 24 hour library	5,148.00
TOTAL 22,088.00	

weather days:
1/11/2018 - high winds

The original Contract Sum was	\$ 25,858,000.00
The net change by previously authorized Change Orders	\$ 137,168.00
The Contract Sum prior to this Change Order was	\$ 25,995,168.00
The Contract Sum will be increased by this Change Order in the amount of	\$ 22,088.00
The new Contract Sum including this Change Order will be	\$ 26,017,256.00

The Contract Time will be increased by one (1) days.
The new date of Substantial Completion will be July 9, 2019

NOTE: This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the Contract Time, that have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONTRACTOR AND OWNER.

MSR Design ARCHITECT <i>(Firm name)</i> <hr/> SIGNATURE <hr/> Kristilyn Vercruysse PRINTED NAME AND TITLE <hr/> 2/9/2018 DATE	FLINTCO, LLC CONTRACTOR <i>(Firm name)</i> <hr/> SIGNATURE <hr/> Cristina Winchester APM PRINTED NAME AND TITLE <hr/> 2/21/2018 DATE	City of Norman OWNER <i>(Firm name)</i> <hr/> SIGNATURE <hr/> Steve Lewis PRINTED NAME AND TITLE <hr/> 2/28/18 DATE
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MEMORANDUM

MSR

Architecture
Interiors and
Urban Design

Date: 2/12/2018
Project Name: **Norman Central Branch Library**
Project No: 2016005.00

To: CO #005
From: Kristilyn Vercruysse (MSR)
Cc: N/A

Re: **NORMAN CENTRAL LIBRARY CO #005 EXPLANATIONS**

The descriptions below are intended to explain the reasons for each change stated in CO #005, and the associated costs for each change. Reference CO #005 for the formalized and signed document outlining these changes. Reference the potential change orders produced by Flintco Construction for the origination of stated costs.

PCO-18 – RFI 106- \$5,930

Explanation: This work is for the demolition of four concrete pedestal bases and adding length to four steel columns. This allows smoother transitions in the access floor and does not interfere with operable partition. MSR approved.

PCO-20-22 – Misc – see below - \$2263

PCO-20 – adding threads to the light poles for owner provided equipment. Added value for owner installed equipment. MSR approved.

PCO-21 – removal of gas sleeve as it added no value to project. MSR approved.

PCO-22 – Electrical boxes specified were discontinued. Revised box was higher end model to ensure design intent is met. Added value. MSR approved

PCO-24RI – Sail Shade Bracing RFI 136RI - \$8747

Additional structure as requested by subcontractor for delegated design of fabric sail shade at third floor balcony for specific product provided as part of bid. Delegated design coordination. MSR approved.

PCO-27 – 24 hour library heater addition - \$5148

Additional 60A breaker run to 24 hour library to accommodate a new feature (heater) that was not available during the design. Added value to PLS. MSR approved.

CO #005 Total Cost: \$22,088.00

Kristilyn Vercruysse, AIA, Associate
612-359-3246 T kristilyn@msrdesign.com E



CHANGE ORDER REQUEST: PCO 18

Project Name Norman Central Library
 Flintco Job Number 17039 MSR Job Number 2016005 City of Norman Contract number K-1617-83

TO: Terry Floyd Norman Municipal Authority 201 West Gray Norman, Ok 73070	Subject: RFI # 106 Pedestal Bases
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In Accordance with our contract agreement, for your review and acceptance, we submit this cost proposal

Document Ref: RFI # 106	NTP DATE:
Summary: This RFI calls for the demolition of four concrete pedestal bases, and adding legth to four steel columns (three on site already).	COR Date: 12/5/2017
Exclusions:	

LABOR, LABOR BURDEN, MATERIALS, SUBCONTRACTS		
Direct Labor		\$ 102
Labor Burden	(58% *Sum of all Flintco Labor)	\$ 59
Direct Materials		\$ 350
Direct Subcontracts		\$ 4,305
SUBTOTAL 1		\$ 4,816
EXPENSES ON LABOR AND MATERIALS		
Consumables	(5.0% of Labor)	8
Small Tools	(5.0% of Labor)	8
SUBTOTAL 2		\$ 16
EXPENSES ON LABOR, LABOR BURDEN, MATERIALS		
Data Processing	(0.25% of labor, burden, and materials)	1
Safety	(1.0% of labor, burden, and materials)	5
Warranty	(1.0% of labor, burden, and materials)	5
SUBTOTAL 3		\$ 12
SUBCONTRACTOR INSURANCE, OVERHEAD AND FEE		
Bonding	(1.5% of Subcontracts and Self Performed)	\$ 72.66
Bldrs Risk Insurance	(.08% of Subcontracts)	3
Overhead on Subcontracts	(10% of Subcontracts)	431
Fee on Subcontracts	(10% of Subcontracts)	431
SUBTOTAL 4		\$ 937
SELF PERFORMED WORK INSURANCE, OVERHEAD AND FEE		
Bldrs Risk Insurance	(.6 % of Subs and Self Performed work)	\$ 35
Overhead on Flintco Work	(10% of Self Performed work+ Bond / Ins)	\$ 57
Fee on Flintco Work	(10% of Self Performed work+ Bond / Ins)	\$ 57
SUBTOTAL 5		\$ 149
TOTAL CHANGE ORDER PROPOSAL		\$ 5,930

Flintco, Inc

 James A. Heley
 Date 12/5/17

OWNER

 Terry Floyd

 Date _____



CHANGE ORDER REQUEST:

18

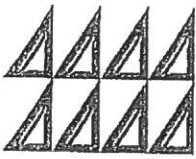
WORKSHEET
12/5/2017

Oklahoma City, OK
Job Number 17039 - Norman Central Library

DESCRIPTION	QTY	UNIT	LABOR				MATERIAL		SUBCONTRACTOR		
			UMH	MHRS	RATE	U.P.	COST	U.P.	COST	U.P.	COST
Concrete Enterprises Inc. - Demolish four pedestals	1	LS		-		-		\$0	\$0	\$1,344	\$ 1,344.00
Unique Metal Fabricators Inc. adding on to four columns	1	LS	0	-	\$ -	\$0	\$0	\$0	\$0	\$2,701	\$ 2,701.00
Dumpster	1	LS		-		-		\$350	\$350		-
Integrated Design -BIM Coordination	4	HRs				-	-			\$65	\$ 260.00
surveying	3	HRs		3	\$ 34.00	-	\$102				-
				-		-					-
				-		-					-
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				-		-					-
				-		-					-
TOTAL							\$102	\$350		\$	4,305.00

FIELD WORK ORDER

PROJECT NAME: NORMAN CENTRAL LIBRARY JOB: 17-051 CODE: 31-110



START DATE: 11-22-17

END DATE: 11-27-17

EMPLOYEE NAME	POSITION *LCIFIS	REG HOURS	OT HOURS	TOTAL HOURS	\$ PER HR	TOTAL \$
<u>Adolfo Delgado</u>	<u>C</u>	<u>8</u>		<u>8</u>	<u>\$42</u>	<u>\$336</u>
<u>Toime Perez</u>	<u>C</u>	<u>8</u>		<u>8</u>	<u>\$42</u>	<u>\$336</u>
<u>Leobardo Valdez</u>	<u>C</u>	<u>16</u>		<u>16</u>	<u>\$42</u>	<u>\$672</u>
				<u>TOTAL</u>		<u>\$1344⁰⁰</u>

LIST OF MATERIALS	QTY	INVOICE Y/N	\$ PER UNITS	TOTAL \$
Concrete				
Rebar				
Form Materials				
Misc				

EQUIPMENT	RENTAL Y/N	TOTAL \$

DESCRIPTION/REASON WORK WAS PERFORMED:
Demolition @ 4 pilasters then epoxy in @ 98'6 floor.

APPROVED BY: *[Signature]* / *[Signature]*
Name/Company

DATE: 11-30-17

CEI SUPERINTENDENT: *[Signature]*
Laborer, Carpenter, Finisher, Superintendent

DATE: 11-27-17



**UNIQUE
METAL
FABRICATIONS
INCORPORATED**



2888 N. Rotary Terrace, P.O. Box 201, Pittsburg, KS 65762

Email: info@umfi.com Phone: (620) 232-3060
URL: www.umfi.com Fax: (620) 232-3014

COR 003

Revision 0

Date: 11-30-17
Job Number: M1732
Norman Central Library
Norman, Ok.

Add Price Description

Add material and labor to make revisions response to Flintco RFI 106.

Changes include but are not limited to the following:

- Pick three columns. Return to shop and modify. Effected columns are 323A,339A & 342A. Remove base plates. Fabricate 16 ½" column stub with new base plate. Full penetration weld splice.
- Modify one column that had not been shipped yet. Effected column is 1143A. Modification is same as above.

Please issue a change order for \$2701 for this work in order to avoid any delays in deliveries.

Proposal Breakdown:

- Add material: \$315
- Add drafting labor \$100

• Add shop labor:	\$840
• Add mgt. labor:	\$200
• Add freight & handling	<u>\$1000</u>
Subtotal:	\$2455
P & O (10%)	<u>\$246</u>
Total:	\$2701

DM

Project Manager

UNIQUE METAL FABRICATIONS, INC

Buyer

General Contractor



Request For Information 106

Importance: Normal

Status: Open

Norman Public Library Central
103 West Acres Street
Norman, OK 73069

Project # 17039

Flintco, LLC
Tel:

RFI #: 106 Date Created: 11/8/2017

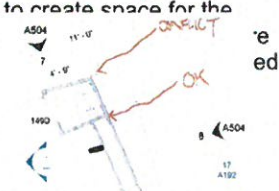
Answer Company	Answered By	Author Company	Authored By
MSR Architects 710 S. 2nd Street 8th Floor Minneapolis, MN 55416q	Thomas Haller	Flintco, LLC 2302 South Prospect Avenue Oklahoma City, OK 73129	Cristine Winchester

Subject	Discipline	Category
Pedestal Baseplates AFF	Structural	Field Condition

Question Date Required: 11/15/2017

RE: 360 Engineering Field Report Issued 11/6
RE: A101.2, S101.2, 10/A192, 11/A552
RE: RFI #23
RE: Submittal 0006-055000-0 - Anchor Bolts - AAN

Per the steel observation report, five columns at Level 1 South have concrete pedestals set at finish floor height 100'-0". Three of these columns will have baseplates exposed AFF even if the concrete is chipped down to create space for the access flooring. Columns are located near grid intersection C/5, C/6, and partition pocket ne located in A3/W6.1 walls with studs widths less than the radius of the 12" x 12" baseplates. 4 locations.



After further conversations about the most cost effective solution, we recommend the followi

- 1) Remove the (3) pedestals all together (more effective because of the time it would take to
- 2) Drill and epoxy anchor bolts into existing thickened SOG at 98'-6".
- 3) Either weld in a splice piece, or order a new column that is the correct length.

Please advise.

Answer Date Answered:

Per Flintco's Recommendation

- 1) Remove the (4) pedestals that conflict with access flooring. Note the 4th pedestal location in the image below.
- 2) Post-installed (4)-3/4" DIA HAS Rods embedded 8" with HILTI HIT-HY 200 into thickened slab-on-grade.
- 3) Splice column or provide a new column with corrected length, which ever is more cost effective.

Ricardo Montoya, 360 Engineering Group 11/17/2017





CHANGE ORDER REQUEST: PCO 20, 21, 22

Project Name Normon Central Library
 Flintco Job Number

17039 MSR Job Number 2016005

City of Norman Contract number K-1617-83

TO:	Terry Floyd Norman Municipal Authority 201 West Gray Norman, Ok 73070	Subject: PCO 20 - Add camera mounts to light poles. 21 - Delete Gas Sleeve Change Electrical Floor Boxes	PCO PCO # 22 -
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In Accordance with our contract agreement, for your review and acceptance, we submit this cost proposal

Document Ref:	RFI's 132, 58, and 88	NTP DATE:
Summary:	PCO # 20 is for adding threaded hubs and access holes in light poles for CCTV equipment by others. (RFI # 132). PCO # 21 is a credit for not providing the gas sleeve discussed in RFI # 58. It was later concluded that this sleeve would be of little value. PCO # 22 is for providing electrical floor boxes of an upgraded style because the specified box is no longer made. The only box that met the design intent is an upgraded box with an increased cost.	COR Date: 1/9/2018
Exclusions:		

LABOR, LABOR BURDEN, MATERIALS, SUBCONTRACTS

Direct Labor			\$ (120)
Labor Burden	(58% *Sum of all Flintco Labor)		\$ (70)
Direct Materials			\$ (150)
Direct Subcontracts			\$ 2,160
SUBTOTAL 1			\$ 1,821

EXPENSES ON LABOR AND MATERIALS

Consumables	(5.0% of Labor)		(9)
Small Tools	(5.0% of Labor)		(9)
SUBTOTAL 2			\$ (19)

EXPENSES ON LABOR, LABOR BURDEN, MATERIALS

Data Processing	(0.25% of labor, burden, and materials)		-
Safety	(1.0% of labor, burden, and materials)		-
Warranty	(1.0% of labor, burden, and materials)		-
SUBTOTAL 3			\$ -

SUBCONTRACTOR INSURANCE, OVERHEAD AND FEE

Bonding	(1.5% of Subcontracts and Self Performed)		\$ 27.03
Builders Risk Insurance	(.08% of Subcontracts)		2
Overhead on Subcontracts	(10% of Subcontracts)		216
Fee on Subcontracts	(10% of Subcontracts)		216
SUBTOTAL 4			\$ 461

SELF PERFORMED WORK INSURANCE, OVERHEAD AND FEE

Bldrs Risk Insurance	(.6 % of Subs and Self Performed work)		\$ -
Overhead on Flintco Work	(10% of Self Performed work+ Bond / Ins)		\$ -
Fee on Flintco Work	(10% of Self Performed work+ Bond / Ins)		\$ -
SUBTOTAL 5			\$ -

TOTAL CHANGE ORDER PROPOSAL

\$ 2,263

Flintco, Inc.

James A. Heley

Date

James A. Heley

1/9/18

OWNER

Terry Floyd

Date

PRIME ELECTRIC CO. / 400 S. Coltrane, Edmond, OK 73034 • (405) 359-9190

PCO# 20

TO: Flintco Construction
 Project Norman Public Library Central
 COR No. 8
 COR Title RFI-132 Add CCTV Mounts to Light Poles

Expires _____

COR Date 12/5/2017

Revision Date _____

COR Item No	Description	Qty	Material	Labor		Equipment	
				Hours	Costs	Type	Cost
1	Fixture Modifications	6	720.00				
2							
3	<i>Shop drawings & coordination labor included in unit price.</i>						
4	<i>Proposal is to add a hand hole near the top of the pole and a 1" threaded hub on the opposite side</i>						
5	<i>of the handhole to provide a mounting point and access for the CCTV equipment.</i>						
6							
7	<i>Approved shop drawings required before release of poles for fabrication.</i>						
8							
9							
10							
11							
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14							
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16							
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18							
19							
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21							
22							
23							
24							
25							
26							
27							
Totals			\$ 720.00	0.00	\$ -		\$ -
					Labor Burden	\$ -	
Sales Tax - Yes 8.75%			\$ 63.00				
Total Raw Costs (Labor+Labor Burden+Material+Equipment+Tax)						\$	783.00
Project Management Expense						\$	-
Overhead @ 10%						\$	78.30
Profit @ 5%						\$	43.07
Supervision						\$	-
Bonds - No						\$	-
GRAND TOTAL						\$	904.37

NOTES:

*Proposal excludes cutting, patching, or painting of any surface unless specifically included above.
 Proposal assumes all work to be performed during normal working hours and does not include any overtime unless show
 No work to begin until written authorization for this proposal.*



PCO#20



Request For Information 132

Importance: Normal Status: Open

Norman Public Library Central 103 West Acres Street Norman, OK 73069 Project # 17039 Flintco, LLC Tel:

RFI #: 132 Date Created: 12/4/2017

Table with 4 columns: Answer Company, Answered By, Author Company, Authored By. Rows include MSR Architects and Flintco, LLC.

Table with 3 columns: Subject, Discipline, Category. Row: Camera Mounting Points on LPs, Electrical, Field Condition.

Question Date Required: 12/11/2017

RE: RFI #121 - Data Plan for Security Cameras on LPs - RESPONSE RE: EL010 or Hex Note #2 on ME002.1 and ME002.2 RE: SPEC 280050

RFI 121 EL010 ME002.1 ME002.2 SPECS 280050

Per paragraph 1.02/A/3 in SPEC 280050, the security camera equipment is owner-provided. We recommend adding a handhole and a 1" threaded nub on the (6) poles planned to receive security cameras to ease future install and install costs. These can drilled/sealed onto the pole later, but it will be more cost-effective to have them fabricated into the poles now. For all (6) light poles to have these added, the rough order cost is \$1,000. Please advise if these provisions should be added now. If they are to be added, please also provide camera mounting height and cut sheet if available.

Answer Date Answered:

Cristine, Given the minimal cost of this item, I believe it will save all of us work in the end. I'm good with adding this cost to the project.

Thanks, Terry Floyd Development Coordinator City of Norman 201 W. Gray Street Norman, OK 73069 405.366.5446 office 405.464.1730 cell terry.floyd@normanok.gov www.normanok.gov



PCO #21



Request For Information 058

Importance: Normal

Status: Open

Norman Public Library Central
103 West Acres Street
Norman, OK 73069

Project # 17039

Flintco, LLC
Tel:

RFI #: 058 Date Created: 9/20/2017

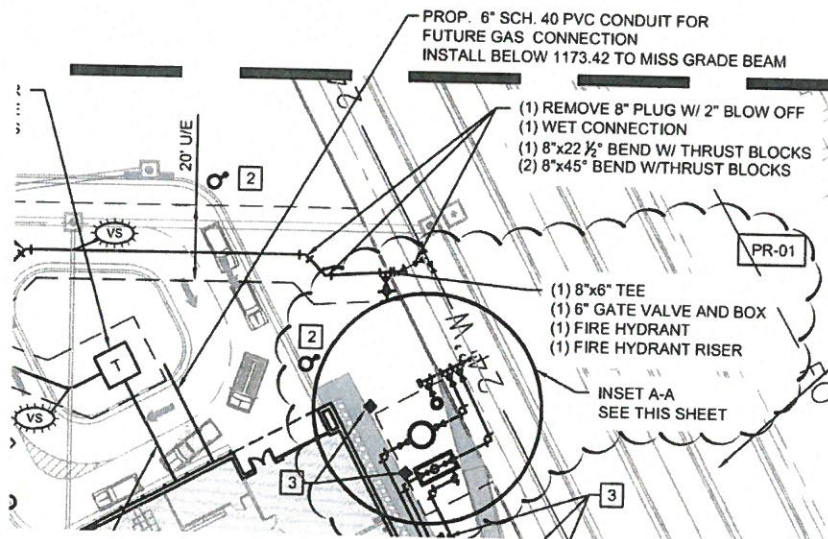
Answer Company	Answered By	Author Company	Authored By
MSR Architects 710 S. 2nd Street 8th Floor Minneapolis, MN 55416q	Thomas Haller	Flintco, LLC 2302 South Prospect Avenue Oklahoma City, OK 73129	David Lyon

Subject	Discipline	Category
Future Gas Sleeve	Civil	Drawing Discrepancies

Question C901 Date Required: 9/27/2017
Reference Sheet C901

Sheet C901 calls for a 6" sleeve to be installed from the "drop-off" island to the electrical room. The sleeve will need to have a 90 degree fitting added to bring it up into the room from below the grade beam. There is concern that the gas line installer may not be able to install the gas line through the sleeve if it has a 90 degree bend in it.

- 1) Please confirm that gas line installer can install the future gas line through the sleeve with a 90 degree bend.
- 2) Please confirm the electrical room is the proper place for the future gas line to enter.



Answer Date Answered:

There is no gas installer at this time to discuss this with. Design team has not been informed by gas company as to what size future might be, or might never be, installed through sleeve. My recommendation is to install a sweeping 90 and work with gas company in the future if gas is ever used on site. The location of the stub up was coordinated with the design team during design and the proposed location was the decision that was agreed upon.

9/22/17

Jason Emmett
Cedar Creek

PRIME ELECTRIC CO. / 400 S. Coltrane, Edmond, OK 73034 • (405) 359-9190

TO: Flintco Construction PCO#22
 Project Norman Public Library Central
 COR No. 9
 COR Title Replace Discontinued CUBS Box with New Model

Expires _____

COR Date 12/14/2017

Revision Date _____

COR Item No	Description	Qty	Material	Labor		Equipment	
				Hours	Costs	Type	Cost
1	Cost Difference for CUBS Boxes		1000.00				
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
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21							
22							
23							
24							
25							
26							
27							
Totals			\$ 1,000.00	0.00	\$ -		\$ -
				Labor Burden	\$ -		
Sales Tax - Yes 8.75%			\$ 87.50				
Total Raw Costs (Labor+Labor Burden+Material+Equipment+Tax)						\$	1,087.50
Project Management Expense						\$	-
Overhead @ 10%						\$	108.75
Profit @ 5%						\$	59.81
Supervision						\$	-
Bonds - No						\$	-
GRAND TOTAL						\$	1,256.06

NOTES:
*Proposal excludes cutting, patching, or painting of any surface unless specifically included above.
 Proposal assumes all work to be performed during normal working hours and does not include any overtime unless show
 No work to begin until written authorization for this proposal.*

PCO#22



Request For Information 088

Importance: High

Status: Open

Norman Public Library Central
103 West Acres Street
Norman, OK 73069

Project # 17039

Flintco, LLC
Tel:

RFI #: 088 Date Created: 10/18/2017

Answer Company	Answered By	Author Company	Authored By
MSR Architects 710 S. 2nd Street 8th Floor Minneapolis, MN 55416q	Thomas Haller	Flintco, LLC 2302 South Prospect Avenue Oklahoma City, OK 73129	Cristine Winchester

Subject	Discipline	Category
Recessed Floor Boxes Discontinued	Electrical	Specification Clarification

Question Date Required: 10/25/2017

RE: Floor Box Schedule on E603
RE: RFI #67 Floor Boxes for Hard Surfaces **E603 RFI 067**
RE: Submittal 0143-260533-0 Floor Box Product Data - AAN

The floor boxes approved through RFI #67 and Submittal #143 need to be redefined again because the product has been discontinued.

Please review attached sheets from the current Hubbel catalog that show their current options for FB's compatible with hard floors and advise.

*****An expedited response is requested so the (6) recessed boxes at Rooms 136 and 123 can be released and roughed in prior to the SOG pour scheduled for 10/27/17. Blocking these out is not recommended at Room 136 where the finish is scheduled to be exposed concrete.*****

Answer Date Answered:

There is not an exception to this product.

Options are not selected in this document:

+it appears for FB-1 and FB-2, the 4-gang option is acceptable to accommodate the devices indicated. Please verify.

+Cast iron or Corrosion Resistant construction is preferred in concrete topping. Coordinate exact product with available depth of floor pour.

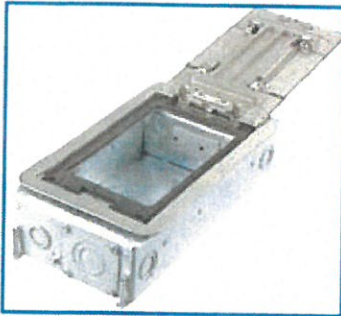
+Provide flush lid where floor is finished concrete, provide surface type lid for wood floor install

+I like rectangular lid, but please verify lid shape and color with MSR.

Josh Nielsen, MODUS
10/18/2017

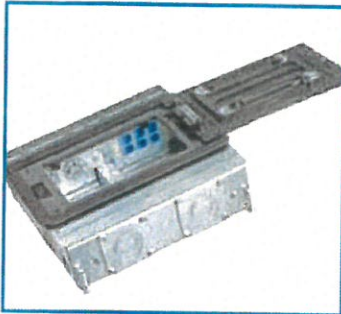


Products at a Glance



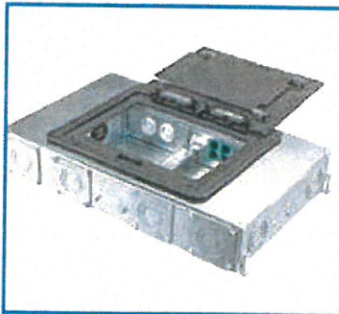
2-Gang Recessed

The Hubbell SystemOne 2-Gang Recessed Concrete Floor Box offers eight styles, satisfying the requirements of almost any commercial building application. Rectangular or round covers, as well as furniture feed covers, are available in a variety of finishes to blend with any existing or new décor. A parallel-device layout reduces plug interference, maximizing functionality and performance.



4-Gang Recessed

Similar to the 2-Gang Recessed Concrete Floor Box, Hubbell's SystemOne 4-Gang Recessed Concrete Floor Box is available with rectangular or round covers. Ten different styles make it possible to meet the electrical requirements of most commercial projects - new construction or renovation. The parallel device layout maximizes functionality which can be limited when devices are mounted 90° from one another.



6-Gang Recessed


Increased power, data, and AV capacity is what the Hubbell SystemOne 6-Gang Recessed Concrete Floor Box was designed to handle. Four styles allow the floor box to work within almost any commercial application to enhance connectivity. Rectangular and round covers are available in a variety of finishes that work with any aesthetic or finish.



10-Gang Recessed

With maximum capacity in a small footprint, the 10-Gang box provides a uniform look with rectangular or round covers that are available in several finishes to complement existing décor. Electrical devices are mounted vertically and are mounted to the plate prior to securing it to the box. Two inch knockouts are designed into each box allowing for simple installation of AV cables with pre-connectorized heads and specific bend radius requirements.

Cover

- Available in round, rectangular and furniture feed styles
- 180° cover opening
- Two large cable egress doors
- Listed to UL 514A and UL scrub water compliant
- Die cast aluminum cover construction
- All covers are ADA compliant 
- Post pour adjustment

Box

- 16 gauge galvanized sheet metal and cast iron construction
- Optional fusion-bonded, green epoxy paint for on-grade use
- 6 in. solid conductor ground pigtail in each gang
- 3 in. deep version accepts adapter (CFBHUB2) for 2 in. conduit
- Pre pour adjustment
- Meets UL 514A requirements and are UL scrub water compliant
- Patent pending, labor saving, easy mount device plates

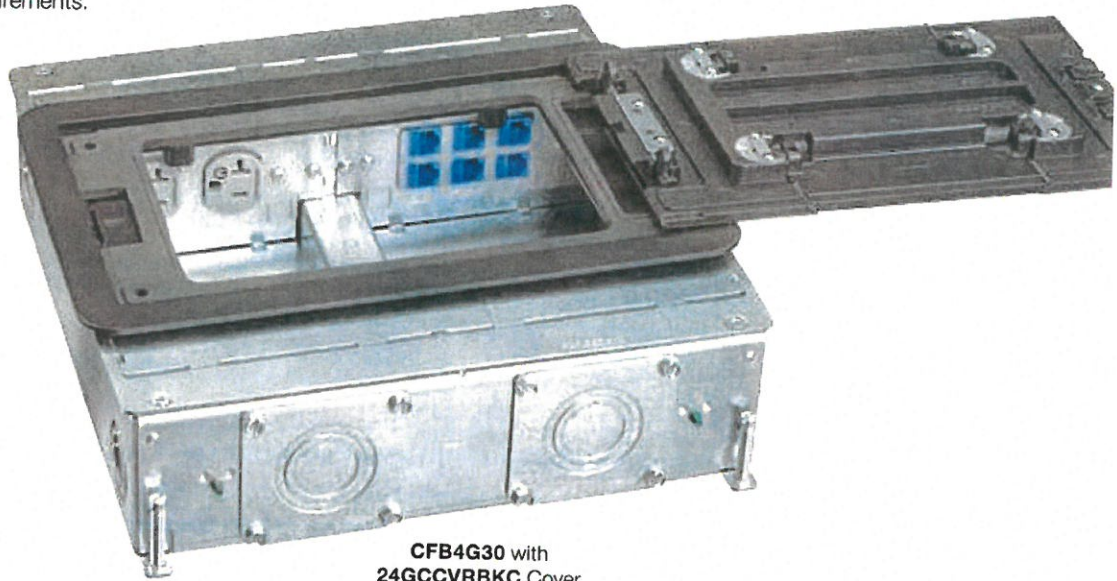
Floor Boxes



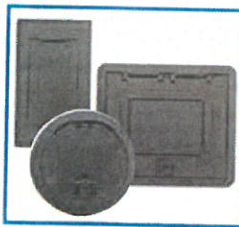
Features and Benefits

SystemOne Recessed Concrete Floor Boxes

Featuring the unique capabilities of Hubbell's SystemOne family design, Hubbell has expanded its floor box offering to provide industry leading flexibility while accommodating an extensive range of applications. Hubbell SystemOne is constructed to give customers the ability to create personal solutions for their most demanding, power, data and audio/video requirements.

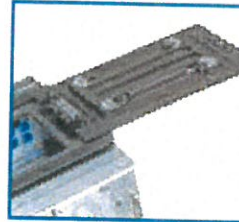


CFB4G30 with
24GCCVRBKC Cover



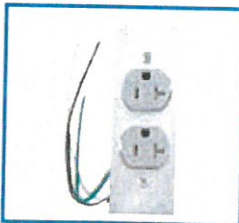
Family Look

- Hubbell SystemOne Recessed Floor Box line offers a common look regardless of capacity or installation. This simple concept ensures a consistent look throughout a building with rectangular or round covers. Round covers lend themselves to multi-story buildings also using Fire-Rated Poke-Through devices



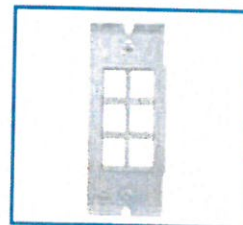
Covers

- All SystemOne covers are ADA compliant. The doors open to 180° for maximum access. Cables and plugs are protected by recessed connections



1 Screw 3 Fasteners

- Pre-wired duplex or Style Line® receptacles with 8 in. stranded leads are installed into plates to allow for even more labor savings



Easy Mount Device Plates

- The Easy Mount device plates allow for a device to be mounted to the plate and wired outside of the floor box. The device and plate assembly are then easily installed and secured with one stud that locates the plate and one screw to secure it
- This patent pending device fastening method maximizes efficiency while reducing install time and comes standard with all device plates for 2, 4 and 6-gang boxes



CR Version

- Coated with fusion-bonded epoxy paint to help prevent corrosion and intended for on-grade use

Floor Boxes



Selecting a SystemOne Recessed Concrete Floor Box

To assist with the floor box selection process, please have the following information available:

Electrical requirements:	Application:	Cover style:
Power (each electrical device requires one gang) Data/AV (consult manufacturers' specification for size/volume requirements), number required. Add up total number to determine needed capacity. If necessary capacity is not shown round up to next size. Example: 9-Gang rounds up to a 10-Gang floor box	On-grade (OG) Above-grade (AG) Minimum concrete pour depth	Round Rectangular

Once this information is gathered start on the capacity column:

- ① Capacity: Select necessary box.
- ② Application: Select the concrete pour depth and on-grade or above-grade application.
- ③ Cover style: Select round or rectangular cover.
- ④ Locate interconnecting point of all three categories and move to right to select correct catalog number.

		Application - Minimum Pour Depth ②												Steel	Corrosion Resistant	Cast Iron		
		2 ½ in.		3 in.		3 ¼ in.		3 ¾ in.		5 ½ in.		6 ¾ in.						
		AG	OG	AG	OG	AG	OG	AG	OG	AG	OG	AG	OG					
Electrical Requirements - Capacity ①	2-Gang	•												•			CFB2G25	
			•													•		CFB2G25CR
				•											•			CFB2G30
					•											•		CFB2G30CR
						•									•			CFB2G25R
							•									•		CFB2G25RCR
								•							•			CFB2G30R
									•							•		CFB2G30RCR
	4-Gang	•													•			CFB4G25
			•													•		CFB4G25CR
				•											•			CFB4G30
					•											•		CFB4G30CR
					•									•			CFB4G25R	
						•									•		CFB4G25RCR	
							•							•			CFB4G30R	
								•							•		CFB4G30RCR	
6-Gang			•											•			CFB6G30	
				•										•			CFB6G30CR	
					•									•			CFB6G30R	
						•								•			CFB6G30RCR	
10-Gang									•					•			CFB10G55	
										•				•			CFB10G55CR	
											•			•			CFB10G55R	
												•		•			CFB10G55RCR	
		Rectangular	Rectangular	Round	Round	Rectangular	Round											
		Cover Style ③																

Select Correct Catalog Number ④

Floor Boxes



Features and Benefits

SystemOne Recessed Benefits and Enhancements

Functionality

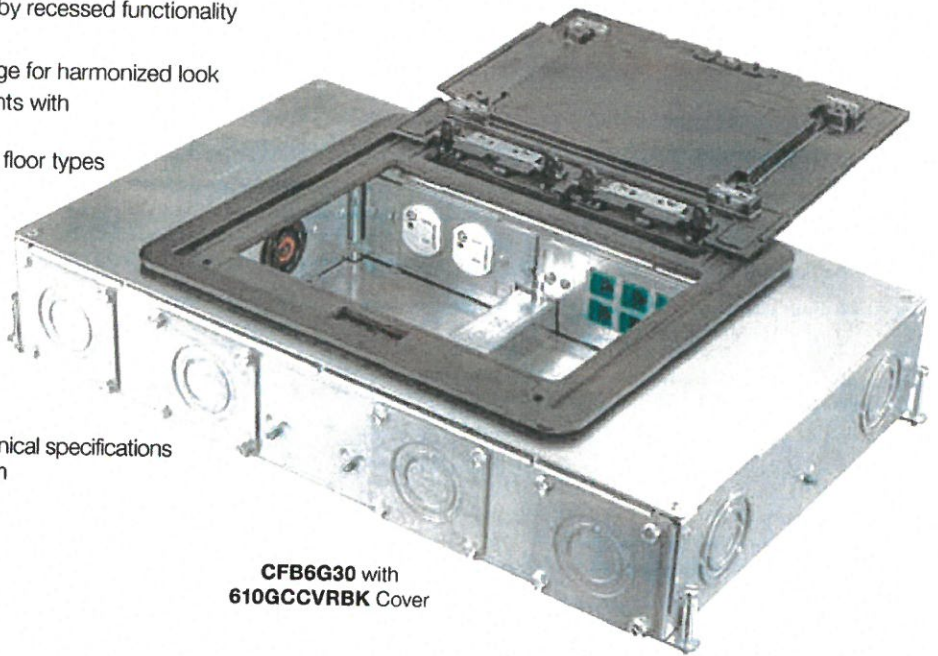
- Cables and connections are protected by recessed functionality
- Open architecture sub-plate design
- Common door layout regardless of flange for harmonized look
- Meets UL 514A scrub water requirements with ScrubShield® technology
- Easy selection with common look for all floor types

Value

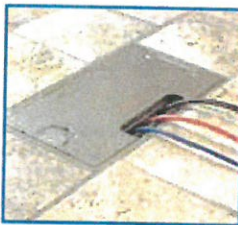
- Enhance building décor with numerous finishes
- Increase durability and longevity with cast aluminum covers

Online Resources

- BIM models, customer drawings and technical specifications are available on www.hubbell-wiring.com

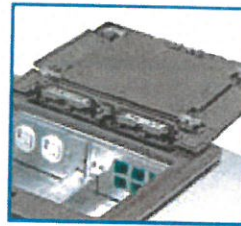


CFB6G30 with
610GCCVRBK Cover



Safety

- Flush flange available for tile, finished concrete or Terrazzo
- Surface flange available for carpeted floors with 0.15 in. rise meets ADA requirements
- Hideaway egress doors fold under cover while in use
- 180° opening of main door



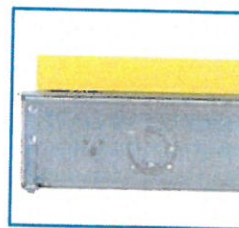
Covers

- All SystemOne covers are ADA compliant. The doors open to 180° for maximum access. Cables and plugs are protected by recessed connections



Concrete Pour Pocket Cap

- In concrete applications, all SystemOne Recessed floor boxes include a yellow factory installed, field-removable pour pocket cap provides a pocket in the final floor to accept the covers intended for terrazzo, tile, or finished concrete floor. The cap may not be used for carpet, wood or engineered floors



Extension Caps

- Pre-pour extension caps allows the box to be recessed up to 1 inch into the concrete floor



CR Version

- Corrosion resistant epoxy paint intended for on-grade use, the CR version is coated with fusion-bonded epoxy paint to help prevent corrosion



2 Inch Conduit Ready

- To meet expanding AV and data needs, the Hubbell SystemOne Recessed Floor Box line readily accepts 2 inch conduits with the use of a 2 inch threaded conduit hub. The offset design allows for less conduit lifting while threading and the hub mounting holes are asymmetrical for installation efficiency



SystemOne Recessed 2-Gang Floor Boxes and Covers, for Use In Concrete Floors

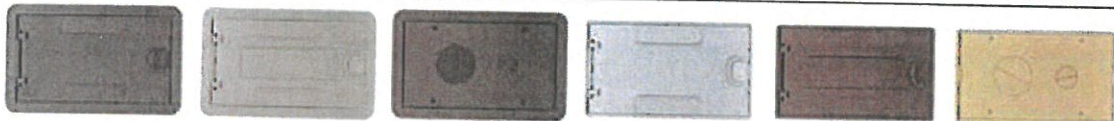
Dimensions Inches (mm)

Style	Rectangular Cover		Round Cover	
	CFB2G30 CFB2G30CR	CFB2G25 CFB2G25CR	CFB2G30R CFB2G30RCR	CFB2G25R CFB2G25RCR
Box Type				
Standard Corrosion-Resistant (On-grade)				
Recommended Pour Depth	3.50" (88.9)	3.00" (76.2)	3.75" (95.3)	3.25" (82.6)
Min. Depth of Pour	3.00" (76.2)	2.50" (63.5)	3.75" (95.3)	3.25" (82.6)
Adjustability	Fully	Fully	Fully	Fully
Cubic Inch (cm3) Capacity per Gang	35.0 cu. in. (570 cm3)	30.0 cu. in. (490 cm3)	35.0 cu. in. (570 cm3)	30.0 cu. in. (490 cm3)
Dimensions - A	2.97" (75.3)	2.41" (61.1)	-	-
Dimensions - B	6.62" (168.2)	6.62" (168.2)	7.32" (185.9)	7.32" (185.9)
Dimensions - C	13.79" (350.3)	13.79" (350.3)	13.79" (350.3)	13.79" (350.3)
Dimensions - D	-	-	6.37" (161.7) TYP.	6.37" (161.7) TYP.
Dimensions - E	3.50" (88.9)	3.00" (76.2)	3.75" (95.3)	3.25" (82.6)
KO Trade Size: Front & Back	(1) ¾", 1", 1¼"	(1) ½", ¾", 1"	(1) ¾", 1", 1¼"	(1) ½", ¾", 1"
Sides	(2) ¾", 1"	(2) ½", ¾", 1"	(2) ½", ¾", 1"	(2) ½", ¾", 1"
Bottom	(4) ½", ¾"	(4) ½", ¾", 1"	(4) ½", ¾", 1"	(4) ½", ¾", 1"
Cover Family	Rectangular	Rectangular	Round	Round
Concrete Cover Included	✓	✓	✓	✓
2 Inch Hub Compatible	✓	-	✓	-

Rectangular Covers

- Compatible with CFB2G25, CFB2G25CR, CFB2G30 and CFB2G30CR
- Two large cable egress doors and access 180° opening
- Maximum static load of 800 lbs. with 2x safety factor*
- Surface style typical applications: Carpet, VCT
- Flush style typical applications: Tile, finished concrete and Terrazzo floors

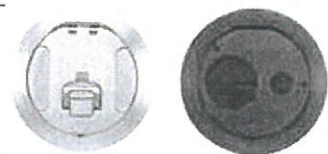
Finish	Cover dimensions 11 ¹ / ₁₆ in. x 7 ⁷ / ₁₆ in.			Cover dimensions 10 ¹ / ₁₆ in. x 6 ³ / ₁₆ in.		
	Surface	Surface with Insert	Furniture Feed (1 in. and 2 in. Plugs)	Flush	Flush with Insert	Furniture Feed (1 in. and 2 in. Plugs)
Aluminum Powder Coat	24GCCVRALU	24GCCVRALUC	24GFFCVRALU	24GTCVRALU	24GTCVRALUC	24GFFCVRALU
Black Powder Coat	24GCCVRBK	24GCCVRBK	24GFFCVRBK	24GTCVRBK	24GTCVRBK	24GFFCVRBK
Brass Powder Coat	24GCCVRBRS	24GCCVRBRSC	24GFFCVRBRS	24GTCVRBRS	24GTCVRBRSC	24GFFCVRBRS
Bronze Powder Coat	24GCCVRBRZ	24GCCVRBRZC	24GFFCVRBRZ	24GTCVRBRZ	24GTCVRBRZC	24GFFCVRBRZ
Satin Nickel Powder Coat	24GCCVRNK	24GCCVRNK	24GFFCVRNK	24GTCVRNK	24GTCVRNK	24GFFCVRNK



6 Inch Round Covers

- Compatible with CFB2G25R, CFB2G25RCR, CFB2G30R and CFB2G30RCR
- Cover has a 7¹/₂ in. outer diameter and two large cable egress doors and access 180° opening
- Maximum static load of 1,000 lbs. with 2x safety factor*

Finish	Flush Surface	Furniture Feed (¾ in. and 2 in. Plugs)
Brushed Aluminum	CFBS1R6CVRALU	CFBS1R6FFCVRALU
Black Powder Coat	CFBS1R6CVRBLK	CFBS1R6FFCVRBLK
Brass Plated	CFBS1R6CVRBRS	CFBS1R6FFCVRBRS
Bronze Plated	CFBS1R6CVRBRZ	CFBS1R6FFCVRBRZ
Gray Powder Coat	CFBS1R6CVRGRY	CFBS1R6FFCVRGRY
Satin Nickel Plated	CFBS1R6CVRNKL	CFBS1R6FFCVRNKL

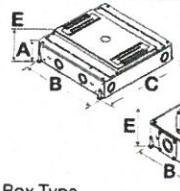
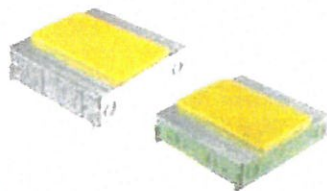
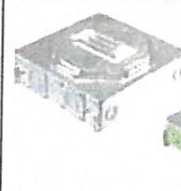





Note: *Load applied through a 3 in. (76mm) mandrel in center of the cover.

Dimensions in Inches (mm)

SystemOne Recessed 4-Gang Floor Boxes and Covers, for Use In Concrete Floors

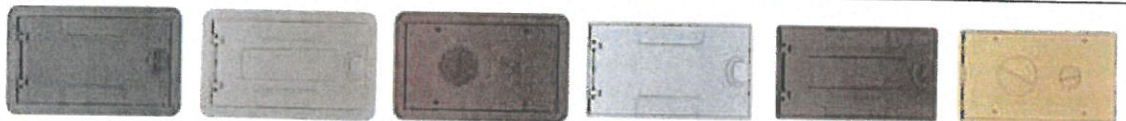
Dimensions Inches (mm)

Style	Rectangular Cover		Round Cover		Cast Iron	
						
Box Type						
Standard	CFB4G30	CFB4G25	CFB4G30R	CFB4G25R	-	-
Corrosion-Resistant (On-grade)	CFB4G30CR	CFB4G25CR	CFB4G30RCR	CFB4G25RCR	-	-
Cast Iron	-	-	-	-	CFB4G30CI	CFB4G30RCI
Recommended Pour Depth	3.50" (88.9)	3.00" (76.2)	3.75" (95.3)	3.25" (82.6)	4.25" (108.0)	4.00" (101.6)
Min. Depth of Pour	3.00" (76.2)	2.50" (63.5)	3.75" (95.3)	3.25" (82.6)	3.75" (95.3)	4.00" (101.6)
Adjustability	Fully	Fully	Fully	Fully	Fully	
Cubic Inch (cm ³) Capacity per Gang	32.5 cu. in. (530 cm ³)	26.5 cu. in. (430 cm ³)	32.5 cu. in. (530 cm ³)	26.5 cu. in. (430 cm ³)	32.5 cu. in. (430 cm ³)	
Dimensions - A	3.46" (87.8)	2.96" (75.1)	-	-	3.20" (81.3)	-
Dimensions - B	12.08" (306.8)	12.08" (306.8)	12.08" (306.8)	12.08" (306.8)	13.19" (335.1)	13.19" (335.1)
Dimensions - C	11.20" (284.5)	11.20" (284.5)	11.20" (284.5)	11.20" (284.5)	11.44" (290.5)	11.44" (290.5)
Dimensions - D	-	-	8.37" (212.5) TYP.	8.37" (212.5) TYP.	-	8.37" (212.5) TYP.
Dimensions - E	3.50" (88.9)	3.00" (76.2)	3.75" (95.3)	3.25" (82.6)	3.68" (93.3)	4.00" (101.6)
KO Trade Size: Front & Back Sides Bottom	(2) ¾", 1", 1¼" (2) ½", ¾", 1" (4) ½", ¾", 1"	(2) ½", ¾", 1" (2) ½", ¾", 1" (4) ½", ¾", 1"	(2) ¾", 1", 1¼" (2) ½", ¾", 1" (4) ½", ¾", 1"	(2) ½", ¾", 1" (2) ½", ¾", 1" (4) ½", ¾", 1"	(4) 1½" NPT Thread (4) ¾" NPT Thread	
Cover Family	Rectangular	Rectangular	Round	Round	Rectangular	Round
Concrete Cover Included	✓	✓	✓	✓		✓
2 Inch Hub Compatible	✓	-	✓	-		-

Rectangular Covers

- Compatible with CFB4G25, CFB4G25CR, CFB4G30 and CFB4G30CR
- Two large cable egress doors and access 180° opening
- Maximum static load of 800 lbs. with 2x safety factor*
- Surface style typical applications: Carpet, VCT
- Flush style typical applications: Tile, finished concrete and Terrazzo floors

Finish	Cover dimensions 11 ¹ / ₁₆ in. x 7 ³ / ₁₆ in.			Cover dimensions 10 ¹ / ₁₆ in. x 6 ⁹ / ₁₆ in.		
	Surface	Surface with Insert	Furniture Feed (1 in. and 2 in. Plugs)	Flush	Flush with Insert	Furniture Feed (1 in. and 2 in. Plugs)
Aluminum Powder Coat	24GCCVRALU	24GCCVRALUC	24GCCFFVRALU	24GTCVRALU	24GTCVRALUC	24GTCFFVRALU
Black Powder Coat	24GCCVRBK	24GCCVRBK	24GCCFFVRBK	24GTCVRBK	24GTCVRBK	24GTCFFVRBK
Brass Powder Coat	24GCCVRBRS	24GCCVRBRSC	24GCCFFVRBRS	24GTCVRBRS	24GTCVRBRSC	24GTCFFVRBRS
Bronze Powder Coat	24GCCVRBRZ	24GCCVRBRZC	24GCCFFVRBRZ	24GTCVRBRZ	24GTCVRBRZC	24GTCFFVRBRZ
Satin Nickel Powder Coat	24GCCVRNK	24GCCVRNK	24GCCFFVRNK	24GTCVRNK	24GTCVRNK	24GTCFFVRNK



8 Inch Round Covers

- Compatible with CFB4G25R, CFB4G25RCR, CFB4G30R, CFB4G30RCR and CFB4G30RCI
- Cover has a 9½ in. outer diameter and two large cable egress doors and access 180° opening
- Maximum static load of 1,000 lbs. with 2x safety factor*

Finish	Flush Surface
Brushed Aluminum	CFBS1R8CVRALU
Black Powder Coat	CFBS1R8CVRBLK
Brass Plated	CFBS1R8CVRBRS
Bronze Plated	CFBS1R8CVRBRZ
Gray Powder Coat	CFBS1R8CVRGRY
Satin Nickel Plated	CFBS1R8CVRNKL



Note: *Load applied through a 3 in. (76mm) mandrel in center of the cover.

Dimensions in Inches (mm)



SystemOne Recessed 6-Gang Floor Boxes and Covers, for Use In Concrete Floors

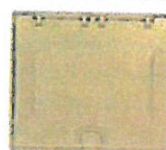
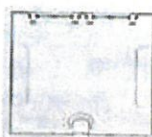
Dimensions Inches (mm)

Style	Rectangular Cover		Round Cover	
	CFB6G30	CFB6G30CR	CFB6G30R	CFB6G30RCR
Box Type				
Standard	-	-	-	-
Corrosion-Resistant (On-grade)	-	CFB6G30CR	-	CFB6G30RCR
Recommended Pour Depth	3.50" (88.9)	3.50" (88.9)	3.75" (95.3)	3.75" (95.3)
Min. Depth of Pour	3.00" (76.2)	3.00" (76.2)	3.75" (95.3)	3.75" (95.3)
Adjustability	Fully	Fully	Fully	Fully
Cubic Inch (cm3) Capacity per Gang	33 cu. in./89 cu. in. (535 cm3/1450 cm3)	33 cu. in./89 cu. in. (535 cm3/1450 cm3)	33 cu. in./89 cu. in. (535 cm3/1450 cm3)	33 cu. in./89 cu. in. (535 cm3/1450 cm3)
Dimensions - A	3.00" (76.2)	3.00" (76.2)	-	-
Dimensions - B	18.48" (469.4)	18.48" (469.4)	17.45" (443.2)	17.45" (443.2)
Dimensions - C	11.62" (295.1)	11.62" (295.1)	11.60" (294.5)	11.60" (294.5)
Dimensions - D	-	-	8.37" (212.5) TYP.	8.37" (212.5) TYP.
Dimensions - E	3.46" (87.8)	3.46" (87.8)	3.75" (95.3)	3.75" (95.3)
KO Trade Size: Front & Back	(4) ¾", 1", 1¼"	(4) ¾", 1", 1¼"	(4) ¾", 1", 1¼"	(4) ¾", 1", 1¼"
Sides	(2) ¾", 1", 1¼", 1½"	(2) ¾", 1", 1¼", 1½"	(2) ¾", 1", 1¼", 1½"	(2) ¾", 1", 1¼", 1½"
Bottom	(4) ¾", 1", 1¼", 1½"	(4) ¾", 1", 1¼", 1½"	(4) ¾", 1", 1¼", 1½"	(4) ¾", 1", 1¼", 1½"
Cover Family	Rectangular	Rectangular	Round	Round
Concrete Cover Included	✓	✓	✓	✓
2 Inch Hub Compatible	✓	✓	✓	✓

Rectangular Covers

- Compatible with CFB6G30 and CFB6G30CR
- Two large cable egress doors and access 180° opening
- Maximum static load of 1,500 lbs. with 2x safety factor*
- Surface style typical applications: Carpet, VCT
- Flush style typical applications: Tile, finished concrete and Terrazzo floors

Finish	Cover dimensions 11½ in. x 10 in.		Cover dimensions 10½ in. x 9 in.	
	Surface	Surface with Insert	Flush	Flush with Insert
Aluminum Powder Coat	610GCCVVALU	610GCCVVALUC	610GTCVVALU	610GTCVVALUC
Black Powder Coat	610GCCVVBK	610GCCVVBKC	610GTCVVBK	610GTCVVBKC
Brass Powder Coat	610GCCVVBRS	610GCCVVBRS	610GTCVVBRS	610GTCVVBRS
Bronze Powder Coat	610GCCVVBZ	610GCCVVBZC	610GTCVVBZ	610GTCVVBZC
Satin Nickel Powder Coat	610GCCVVRNK	610GCCVVRNKC	610GTCVVRNK	610GTCVVRNKC



8 Inch Round Covers

- Compatible with CFB6G30R and CFB6G30RCR
- Two large cable egress doors and access 180° opening
- Maximum static load of 1,000 lbs. with 2x safety factor*

Finish	Surface
Brushed Aluminum	CFBS1R8CVVALU
Black Powder Coat	CFBS1R8CVRBLK
Brass Plated	CFBS1R8CVRBRS
Bronze Plated	CFBS1R8CVRBRZ
Gray Powder Coat	CFBS1R8CVRGRY
Satin Nickel Plated	CFBS1R8CVRNKL



Note: *Load applied through a 3 in. (76mm) mandrel in center of the cover.


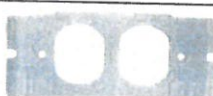
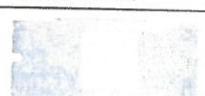
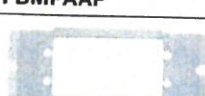








Dimensions in Inches (mm)

Floor Boxes

SystemOne 2, 4 and 6-Gang Plates and Accessories

Plates for Use in 2, 4 and 6-Gang Floor Boxes

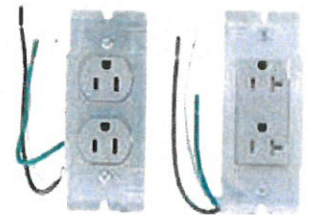
- UL 514A listed

Plate Style	(1) Decorator Opening	(1) Duplex Opening	(2) Extron® MAAAP Openings	(2) Extron® Openings
Cat. No.	FBMPREC	FBMPDUP	FBMPMAAP	FBMPAAP
				
Plate Style	(2) 1U Hubbell iStation Openings	(1) 1.5U Hubbell iStation Opening	(1) Simplex Opening 1.40 in. Diameter	(1) Twist-Lock® Opening 1.60 in. Diameter
Cat. No.	FBMP2IM	FBMP15IM	FBMP139	FBMP156
				
Plate Style	1-Gang Blank	Cable Feed Through with Bushing	(1) Opening for TracJack® or Series II®	(1) Opening with Hubbell ISF6 Frame for Keystone Jacks
Cat. No.	FBMPBNK	FBMPFT	FBMPTRAC	FBMP6KS
				

Pre-Wired Device Plates

- Reduces wiring and installation times
- 8 in. stranded leads mounted to the face plate

Description	Type	15A	20A
Duplex, Gray.	Standard	PWFBMPCR15GRY	PWFBMPCR20GRY
	Tamper-Resistant	PWFBMPCR15GRYTR	PWFBMPCR20GRYTR
Decorator, Gray.	Standard	PWFBMPDR15GRY	PWFBMPDR20GRY
	Tamper-Resistant	PWFBMPDR15GRYTR	PWFBMPDR20GRYTR

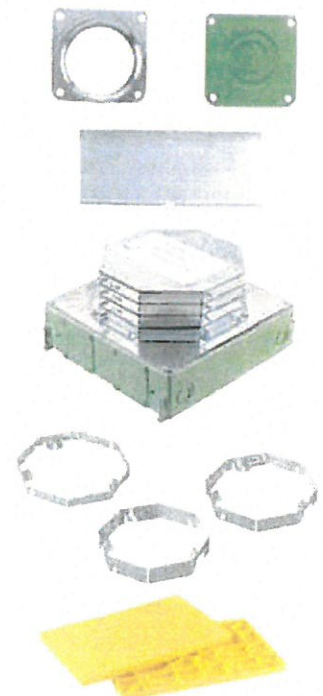


Accessories

Description		Standard Epoxy Coating	Catalog Number
2 in. threaded zinc hub for use with CFB2G30, CFB4G30 and CFB6G30 series floor boxes; replaces CFBKOPLATE.			CFBHUB2
Replacement knock-out plate.		Standard Epoxy Coating	CFBKOPATE CFBKOPATECR
Replacement wire-way, used to pass wires from one compartment to the other, for use in rectangular boxes.		2-Gang	4 and 6-Gang
	CFB2G30/CR CFB4G30/CR CFB4G25/CR	CFB2WW	CFB46WW CFB4WW
Stackable ring to increase box height and concrete pour depth by 3/4 in. increments above top plane of floor box. One ring per 3/4 in. depth increase. Must be installed before concrete pour.		CFB6RCVRR075	CFB8RCVRR075
	Finished floor height adjustment ring - increase post pour adjustment ; use with round cover series.	0 - 1/4 in. 1/4 in. - 1/2 in. 1/2 in. - 3/4 in.	CFB6RCVRR1* CFB6RCVRR2 CFB6RCVRR3
2 and 4-gang rectangular pre-pour 1/2 in. extension caps (2 pack).			24GEXTENDCAP2PK
6 and 10-gang rectangular pre-pour 1/2 in. extension caps (2 pack).			610GEXTENDCAP2PK

Note: *Included with standard CFB2G30R and CFB2G25R series.
**Included with standard CFB4G30R and CFB4G25R series.

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Crestron® is a registered trademark of Crestron Electronics, Inc.
FSR® is a registered trademark of FSR Inc.
TracJack®, Series II® and Ortronics® are registered trademarks of Ortronics/Legrand.



Dimensions in Inches (mm)



SystemOne Recessed 10-Gang Floor Boxes and Covers, for Use In Concrete Floors

Dimensions Inches (mm)

Style	Rectangular Cover		Round Cover	
	CFB10G55	CFB10G55CR	CFB10G55R	CFB10G55RCR
Box Type	Standard	Corrosion-Resistant (On-grade)	Standard	Corrosion-Resistant (On-grade)
Recommended Pour Depth	6.00" (152.4)	6.00" (152.4)	6.25" (158.8)	6.25" (158.8)
Min. Depth of Pour	5.50" (139.7)	5.50" (139.7)	6.25" (158.8)	6.25" (158.8)
Adjustability	Fully	Fully	Fully	Fully
Cubic Inch (cm3) Capacity per Gang	33 cu. in./89 cu. in. (535 cm3/1450 cm3)	33 cu. in./89 cu. in. (535 cm3/1450 cm3)	33 cu. in./89 cu. in. (535 cm3/1450 cm3)	33 cu. in./89 cu. in. (535 cm3/1450 cm3)
Dimensions - A	5.50" (139.7)	5.50" (139.7)	-	-
Dimensions - B	10.96" (278.4)	10.96" (278.4)	10.96" (278.4)	10.96" (278.4)
Dimensions - C	10.96" (278.4)	10.96" (278.4)	12.10" (307.4)	12.10" (307.4)
Dimensions - D	-	-	8.37" (212.5) TYP.	8.37" (212.5) TYP.
Dimensions - E	6.00" (152.4)	6.00" (152.4)	6.25" (158.8)	6.25" (158.8)
KO Trade Size: Front & Back	(1) ½", ¾", (1) ¾", 1", 1¼", 1½", (1) 1", 1¼", 1½", 2"	(1) ½", ¾", (1) ¾", 1", 1¼", 1½", (1) 1", 1¼", 1½", 2"	(1) ½", ¾", (1) ¾", 1", 1¼", 1½", (1) 1", 1¼", 1½", 2"	(1) ½", ¾", (1) ¾", 1", 1¼", 1½", (1) 1", 1¼", 1½", 2"
Sides	(2) ¾", 1", 1¼", 1½"	(2) ¾", 1", 1¼", 1½"	(2) ¾", 1", 1¼", 1½"	(2) ¾", 1", 1¼", 1½"
Bottom	(2) ½", ¾", (4) ½", ¾", 1", 1¼"	(2) ½", ¾", (4) ½", ¾", 1", 1¼"	(2) ½", ¾", (4) ½", ¾", 1", 1¼"	(2) ½", ¾", (4) ½", ¾", 1", 1¼"
Cover Family	Rectangular	Rectangular	Round	Round
Concrete Cover Included	✓	✓	✓	✓
2 Inch Hub Compatible	-	-	-	-

Rectangular Covers

- Compatible with CFB10G55 and CFB10G55CR
- Two large cable egress doors and access 180° opening
- Maximum static load of 1,500 lbs. with 2x safety factor*
- Surface style typical applications: Carpet, VCT
- Flush style typical applications: Tile, finished concrete and Terrazzo floors

Finish	Cover dimensions 11½ in. x 10 in.		Cover dimensions 10½ in. x 9 in.	
	Surface	Surface with Insert	Flush	Flush with Insert
Aluminum Powder Coat	610GCCVRALU	610GCCVRALUC	610GTCVRALU	610GTCVRALUC
Black Powder Coat	610GCCVRBK	610GCCVRBK	610GTCVRBK	610GTCVRBK
Brass Powder Coat	610GCCVRBRS	610GCCVRBRSC	610GTCVRBRS	610GTCVRBRSC
Bronze Powder Coat	610GCCVRBRZ	610GCCVRBRZC	610GTCVRBRZ	610GTCVRBRZC
Satin Nickel Powder Coat	610GCCVRNK	610GCCVRNK	610GTCVRNK	610GTCVRNK



8 Inch Round Covers

- Compatible with CFBS1R8CVRALU and CFBS1R8CVRNK
- Two large cable egress doors and access 180° opening
- Maximum static load of 1,000 lbs. with 2x safety factor*

Finish	Surface
Brushed Aluminum	CFBS1R8CVRALU
Black Powder Coat	CFBS1R8CVRBLK
Brass Plated	CFBS1R8CVRBRS
Bronze Plated	CFBS1R8CVRBRZ
Gray Powder Coat	CFBS1R8CVRGRY
Satin Nickel Plated	CFBS1R8CVRNKL

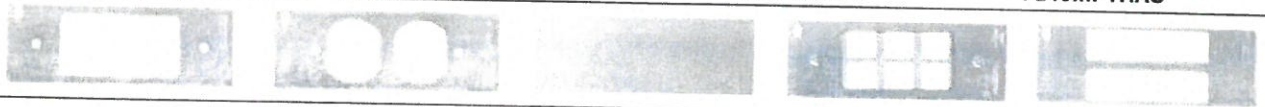
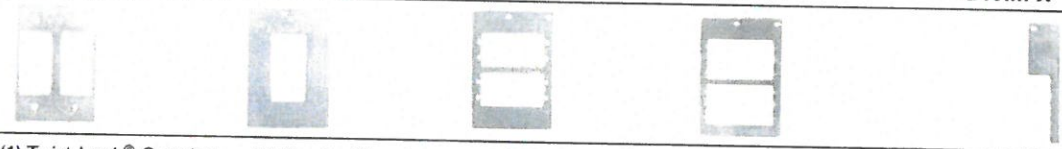
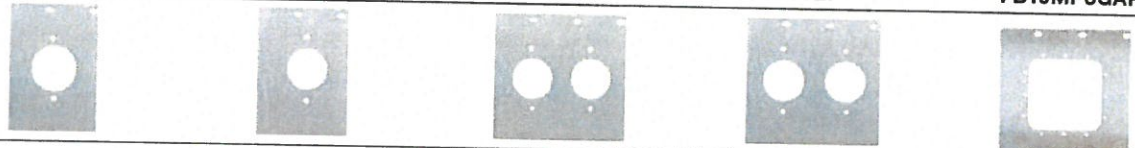



Note: *Load applied through a 3 in. (76mm) mandrel in center of the cover.

Dimensions in Inches (mm)

SystemOne 10-Gang Plates and Accessories

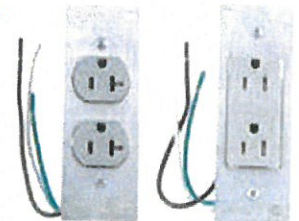
CFB10 Series – Plates

Plate Style	(1) Decorator Opening	(1) Duplex Opening	Blank	Decorator Opening Plate Including Hubbell ISF6GY	(2) Openings to Accommodate (6) Ortronics TrackJack®
Cat. No.	FB10MPREC	FB10MPDUP	FB10MPBNK	FB10MPKEY	FB10MPTRAC
					
Plate Style	(2) Decorator	(4) Extron® MAAP Modules	(4) Extron® AAP Modules	For (6) 1U Hubbell iStation Modules	Replacement Spacer Around Wire-Way
Cat. No.	FB10MP2A	FB10MPMAAP	FB10MPAAP	FB10MP2B	FB10MPX
					
Plate Style	(1) Twist-Lock® Opening 1.60 in. Dia. (Uses 2-Gangs)	(1) Simplex Opening 1.40 in. Dia. (Uses 2-Gangs)	(2) Twist-Lock® Opening 1.60 in. Dia. (Uses 3-Gangs)	(2) Simplex Opening 1.40 in. Dia. (Uses 3-Gangs)	(1) Opening for Appliance Receptacle (Uses 3-Gangs)
Cat. No.	FB10TLA	FB10TLX	FB10TLB	FB10TLY	FB10MP3GAPP
					
Plate Style	(3) Twist-Lock® Opening 1.60 in. Dia. (Uses 5-Gangs)	(3) Simplex Opening 1.40 in. Dia. (Uses 5-Gangs)	(2) 2-Gang. Meets NEMA Spacing. Ideal for Crestron® DM-TX Product and Power (Uses 5-Gangs)	(4) Single Service Openings Utilizing NEMA Wallplate (Uses 5-Gangs)	
Cat. No.	FB10TLC	FB10TLZ	CFB10NEMA	FB10MPNEMA4G	
					

Pre-Wired Device Plates

- Reduces wiring and installation times
- 8 inch stranded leads mounted to the face plate

Description	Type	15A	20A
Duplex, Gray.	Standard	PWFB10MPCR15GRY	PWFB10MPCR20GRY
	Tamper-Resistant	PWFB10MPCR15GRYTR	PWFB10MPCR20GRYTR
Decorator, Gray.	Standard	PWFB10MPDR15GRY	PWFB10MPDR20GRY
	Tamper-Resistant	PWFB10MPDR15GRYTR	PWFB10MPDR20GRYTR



Accessories

Description	Catalog Number
Replacement wire-way, used to pass wires from one compartment to the other, for use in CFB10G55/CR rectangular boxes.	CFB10WW
Stackable ring to increase box height and concrete pour depth by ¼ in. increments above top plane of floor box. One ring per ¼ in. depth increase. Must be installed before concrete pour.	CFB8RCVRR075
Finished floor height adjustment ring - increase post pour adjustment ; use with round cover series.	0 - ¼ in. CFB8RCVRR1* ¼ in. - ½ in. CFB8RCVRR2 ½ in. - ¾ in. CFB8RCVRR3
6 and 10-gang rectangular pre-pour ½ in. extension caps (2 pack).	610GEXTENDCAP2PK

Note: *Included with standard CFB10G30R series.



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FSR® is a registered trademark of FSR Inc.
TracJack®, Series II® and Ortronics® are registered trademarks of Ortronics/Legrand.

Dimensions in Inches (mm)



CHANGE ORDER REQUEST: PCO 24

Project Name Norman Central Library
 Flintco Job Number

17039 MSR Job Number 2016005

City of Norman Contract number K-1617-83

TO: Terry Floyd Norman Municipal Authority 201 West Gray Norman, Ok 73070	Subject: RFI # 136 Additional steel for sail canopies
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In Accordance with our contract agreement, for your review and acceptance, we submit this cost proposal

Document Ref: RFI # 136, RFI #136r1 Summary: 2/5 Update Costs were revised per correspondence below to credit back (24) 6x6 plates and reduced welding. Revised awning shop drawings to be submitted 2/6/18. 1/12/18 The shade canopy contractor is responsible for designing the loads for the shade canopy. This has been done, and the steel / metal stud framing system needs to be augmented to accept the final designed loading. RFI # 136 details this additional steel. We are setting structural and miscellaneous steel on site now, and framing of exterior walls has begun. This COR needs prompt approval, or there could be additional costs associated with remobilization of the steel crews, or removal of exterior skin to install the added supports. Thus we are requesting pricing approval by January 19th for this PCO. If this is not approved by January 19th we may need to revise our pricing.	NTP DATE: COR Date: 1/12/2018, Rev 2/5
Exclusions:	

LABOR, LABOR BURDEN, MATERIALS, SUBCONTRACTS

Direct Labor		\$ -
Labor Burden	(58% *Sum of all Flintco Labor)	\$ -
Direct Materials		\$ -
Direct Subcontracts		\$ 7,143

SUBTOTAL 1

\$ 7,143

EXPENSES ON LABOR AND MATERIALS

Consumables	(5.0% of Labor)	-
Small Tools	(5.0% of Labor)	-

SUBTOTAL 2

\$ -

EXPENSES ON LABOR, LABOR BURDEN, MATERIALS

Data Processing	(0.25% of labor, burden, and materials)	-
Safety	(1.0% of labor, burden, and materials)	-
Warranty	(1.0% of labor, burden, and materials)	-

SUBTOTAL 3

\$ -

SUBCONTRACTOR INSURANCE, OVERHEAD AND FEE

Bonding	(1.5% of Subcontracts and Self Performed)	\$ 107.15
Builders Risk Insurance	(.08% of Subcontracts)	6
Overhead on Subcontracts	(10% of Subcontracts)	714
Fee on Subcontracts	(10% of Subcontracts)	714

SUBTOTAL 4

\$ 1,541

SELF PERFORMED WORK INSURANCE, OVERHEAD AND FEE

Bldrs Risk Insurance	(.6 % of Subs and Self Performed work)	\$ 52
Overhead on Flintco Work	(10% of Self Performed work+ Bond / Ins)	\$ 5
Fee on Flintco Work	(10% of Self Performed work+ Bond / Ins)	\$ 5

SUBTOTAL 5

\$ 63

TOTAL CHANGE ORDER PROPOSAL

\$ 8,747

Flintco, Inc

OWNER

James A. Heley

Terry Floyd

Date

Date



CHANGE ORDER REQUEST:

24

Oklahoma City, OK
 Job Number 17039 - Norman Central Library

WORKSHEET
 1/12/2018

DESCRIPTION	QTY	UNIT	LABOR				MATERIAL		SUBCONTRACTOR		
			UMH	MHRS	RATE	U.P.	COST	U.P.	COST	U.P.	COST
Unique Metal Fabrications	1	LS		-		-		\$0	\$0	\$10,091	\$ 10,091.00
Browsers Reduced Welding	1	LS		-		-				(\$500)	\$ (500.00)
Austin Awnings Deleted Plates	1	LS		-		-				(\$2,448)	\$ (2,448.00)
TOTAL								\$0	\$0	\$	7,143.00



**UNIQUE
METAL
FABRICATIONS
INCORPORATED**



2888 N. Rotary Terrace, P.O. Box 201, Pittsburg, KS 65762

Email: info@umfi.com
URL: www.umfi.com

Phone: (620) 232-3080
Fax: (620) 232-3014

COR 004

Revision 0

Date: 1-12-18
Job Number: M1732
Norman Central Library
Norman, Ok.

Add Price Description:

Add material and labor to furnish and install additional support framing for Sail Canopies per GC RFI 136 response.

Please issue a change order for \$10,091 for this work in order to avoid any delays in deliveries.

Proposal Breakdown:

• Add material:	\$2002
• Add drafting labor	\$400
• Add shop labor:	\$946
• Add mgt. labor:	\$200
• Add freight	\$750
• Tax (8.5%)	<u>\$376</u>
Subtotal:	\$4674
Erection Labor	<u>\$4500</u>
	\$9174
P & O (10%)	<u>\$917</u>
Total:	\$10,091

DM

Project Manager

UNIQUE METAL FABRICATIONS, INC

Buyer

General Contractor

From: Cristine Winchester
Sent: Tuesday, January 30, 2018 2:30 PM
To: Kristilyn Vercruysse; Elli Johannsson (ejohannsson@360enggroup.com); Ricardo Montoya (rmontoya@360enggroup.com)
Cc: Tom Haller; Mark Mackey; Cory Rackley
Subject: RE: RFI 136 - PCO #24.

Elli/Ricardo,

To tag onto what Kristilyn said, we just received the deduct back from Austin Awnings for the (24) 6" plates with SS mill finish for \$2,448. Please take this into consideration when vetting the \$12K add from UMFI. Also- I just got off the phone with Dave from Unique. He's working to get the deduct from the steel erector today to reduce the welds.

From: Kristilyn Vercruysse [<mailto:Kristilyn@msrdesign.com>]
Sent: Tuesday, January 30, 2018 11:19 AM
To: Elli Johannsson (ejohannsson@360enggroup.com) <ejohannsson@360enggroup.com>; Ricardo Montoya (rmontoya@360enggroup.com) <rmontoya@360enggroup.com>
Cc: Cristine Winchester <cristine.winchester@flintco.com>; Tom Haller <tom@msrdesign.com>
Subject: RFI 136 - PCO #24.

Elli and Ricardo.

We had a conference call with the sub for the shade providers a while back where you wanted to talk through potential solutions for reducing the cost of PCO #24. Flintco is still working through getting a deduct for the stainless steel plates but is there some pending work on revising the details put forth in RFI 136 to reduce the 12,357 dollar change order for the additional steel.

Please confirm where we are at with that.

If we have a deduct coming, does the \$12,357 dollar PCO (attached) seem fair for the work added in RFI 136.

Thank you,
Kristilyn

Kristilyn Vercruysse, AIA, LEED AP, Associate
612 359 3246 T 612 616 8148 C

MSR www.msrdesign.com

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From: Cory Rackley
Sent: Thursday, February 1, 2018 2:52 PM
To: Ricardo Montoya
Cc: Cristine Winchester; Elli Johannsson; tom@msrdesign.com; Kristilyn Vercruysse
Subject: Re: Erector Deduct for Sail Shade Framing

Ricardo, the light shelf work install has already started, no deduct on this work. The deduct would be very minimal after speaking to the subcontractor.

Cory Rackley
Construction Director // Flintco, LLC
405.835.6425 (d) // 405.520.0059 (c)

On Jan 31, 2018, at 6:11 PM, Ricardo Montoya <rmontoya@360enggroup.com> wrote:

Christine,
Any deduct for the light shelf framing? I know this is outside of COR 004, but I did not see a response on this item.

Ricardo Montoya

<image002.gif>

Ricardo Montoya, PE, ICC SI
Structural Engineer

360 Engineering Group, PLLC
www.360enggroup.com

1630 N. Blackwelder Ave. #5
Oklahoma City, OK 73106

o [405.256.4861](tel:405.256.4861) | d [405.260.5191](tel:405.260.5191) | m [405.301.5976](tel:405.301.5976)

From: Cristine Winchester [<mailto:cristine.winchester@flintco.com>]
Sent: Wednesday, January 31, 2018 5:52 PM
To: Kristilyn Vercruysse <kristilyn@msrdesign.com>; tom@msrdesign.com
Cc: Cory Rackley <CRackley@flintco.com>; Ricardo Montoya <rmontoya@360enggroup.com>; Elli Johannsson <ejohannsson@360enggroup.com>
Subject: Erector Deduct for Sail Shade Framing

Kristilyn and Tom,

Please see below. Cory was able to talk Browers into a \$500 deduct. Not much, but more than we had and his justification is more solid than it sounded on the phone. Once

we get the revised RFI response, I'll have Unique confirm their cost hasn't changed and we should be able to wrap this one up. Let me know if you or 360 see otherwise.

From: Cristine Winchester
Sent: Wednesday, January 31, 2018 2:54 PM
To: Cory Rackley <CRackley@flintco.com>
Subject: FW: COR 004

CRackley@flintco.com

Dave,

There would be no cost in reducing the diameter of the weld. The few extra seconds saved. Would not stop me from having to do all the required set up and welding. It would only save a few seconds per each weld. I would spend more time and money doing the take off. Than I would save making a ¼ inch weld a 3/16 inch weld.
Sorry

Kevin Browsers
Browsers & Associates
P.O. Box 400
Gentry, AR 72734
(479)736-2518 Fax (479)736-0006
kbrowsers@browsersandassociates.com
www.browsersandassociates.com

From: Dave [<mailto:dave@umfi.com>]
Sent: Wednesday, January 31, 2018 8:12 AM
To: kbrowsers@browsersandassociates.com; 'Jess Harp'
Subject: FW: COR 004

Kevin,

Did you ever evaluate whether you can save any labor cost with the attached changes?
Flintco is hammering me about this.

Thanks,
<image005.png>

From: Dave [<mailto:dave@umfi.com>]
Sent: Thursday, January 18, 2018 11:22 AM
To: 'kbrowsers@browsersandassociates.com'; 'Jess Harp'
Subject: FW: COR 004

Kevin,

Please take a look at the attached.

The first one is regarding your add material price for Flintco's RFI 136. Looks like they are reducing the weld requirements.
Let me know if they can save an appreciable amount of money there.

The second file is for the light bar framing that was in the base bid. I have no idea if this has been installed yet. If not look at what cost savings I can tell them for field reducing welds.

Fun!!!
<image005.png>

From: Ricardo Montoya
[<mailto:rmontoya@360enggroup.com>]
Sent: Tuesday, January 16, 2018 4:28 PM
To: dave@umfi.com
Cc: Elli Johannsson; Tom Haller; Kristilyn Vercruyse; zblair@flintco.com; Cristine Winchester; David Lyon
Subject: COR 004

Dave,
Regarding COR 004, can you review the proposed revisions to RFI 136 and let us know if it will reduce the erection labor line item? Additionally, we have spotted another opportunity to reduce erection labor at the light shelf framing. Please let us know if there are any savings from the proposed light shelf framing revision.

Thanks,
Ricardo Montoya

<image002.gif>

Ricardo Montoya, PE, ICC SI
Structural Engineer

360 Engineering Group, PLLC
www.360enggroup.com



CHANGE ORDER REQUEST: PCO 24

Project Name Norman Central Library
 Flintco Job Number

17039 MSR Job Number 2016005

City of Norman Contract number K-1617-83

TO: Terry Floyd Norman Municipal Authority 201 West Gray Norman, Ok 73070	Subject: RFI # 136 Additional steel for sail canopies
--	---

In Accordance with our contract agreement, for your review and acceptance, we submit this cost proposal

Document Ref: RFI # 136, RFI #136r1 Summary: 2/5 Update Costs were revised per correspondence below to credit back (24) 6x6 plates and reduced welding. Revised awning shop drawings to be submitted 2/6/18. 1/12/18 The shade canopy contractor is responsible for designing the loads for the shade canopy. This has been done, and the steel / metal stud framing system needs to be augmented to accept the final designed loading. RFI # 136 details this additional steel. We are setting structural and miscellaneous steel on site now, and framing of exterior walls has begun. This COR needs prompt approval, or there could be additional costs associated with remobilization of the steel crews, or removal of exterior skin to install the added supports. Thus we are requesting pricing approval by January 19th for this PCO. If this is not approved by January 19th we may need to revise our pricing.	NTP DATE: COR Date: 1/12/2018, Rev 2/5
Exclusions:	

LABOR, LABOR BURDEN, MATERIALS, SUBCONTRACTS

Direct Labor		\$ -
Labor Burden	(58% *Sum of all Flintco Labor)	\$ -
Direct Materials		\$ -
Direct Subcontracts		\$ 7,143

SUBTOTAL 1

\$ 7,143

EXPENSES ON LABOR AND MATERIALS

Consumables	(5.0% of Labor)	-
Small Tools	(5.0% of Labor)	-

SUBTOTAL 2

\$ -

EXPENSES ON LABOR, LABOR BURDEN, MATERIALS

Data Processing	(0.25% of labor, burden, and materials)	-
Safety	(1.0% of labor, burden, and materials)	-
Warranty	(1.0% of labor, burden, and materials)	-

SUBTOTAL 3

\$ -

SUBCONTRACTOR INSURANCE, OVERHEAD AND FEE

Bonding	(1.5% of Subcontracts and Self Performed)	\$ 107.15
Builders Risk Insurance	(.08% of Subcontracts)	6
Overhead on Subcontracts	(10% of Subcontracts)	714
Fee on Subcontracts	(10% of Subcontracts)	714

SUBTOTAL 4

\$ 1,541

SELF PERFORMED WORK INSURANCE, OVERHEAD AND FEE

Bldrs Risk Insurance	(.6 % of Subs and Self Performed work)	\$ 52
Overhead on Flintco Work	(10% of Self Performed work+ Bond / Ins)	\$ 5
Fee on Flintco Work	(10% of Self Performed work+ Bond / Ins)	\$ 5

SUBTOTAL 5

\$ 63

TOTAL CHANGE ORDER PROPOSAL

\$ 8,747

Flintco, Inc

OWNER

James A. Heley

Terry Floyd

Date

Date



CHANGE ORDER REQUEST:

24

Oklahoma City, OK
Job Number 17039 - Norman Central Library

WORKSHEET
1/12/2018

DESCRIPTION	QTY	UNIT	LABOR				MATERIAL		SUBCONTRACTOR		
			UMH	MHRS	RATE	U.P.	COST	U.P.	COST	U.P.	COST
Unique Metal Fabrications	1	LS		-		-		\$0	\$0	\$10,091	\$ 10,091.00
Browsers Reduced Welding	1	LS		-		-		-	-	(\$500)	\$ (500.00)
Austin Awnings Deleted Plates	1	LS		-		-		-	-	(\$2,448)	\$ (2,448.00)
TOTAL								\$0	\$0	\$	7,143.00

COR 004

Revision 0

Date: 1-12-18
 Job Number: M1732
 Norman Central Library
 Norman, Ok.

Add Price Description:

Add material and labor to furnish and install additional support framing for Sail Canopies per GC RFI 136 response.

Please issue a change order for \$10,091 for this work in order to avoid any delays in deliveries.

Proposal Breakdown:

• Add material:	\$2002
• Add drafting labor	\$400
• Add shop labor:	\$946
• Add mgt. labor:	\$200
• Add freight	\$750
• Tax (8.5%)	<u>\$376</u>
Subtotal:	\$4674
Erection Labor	<u>\$4500</u>
	\$9174
P & O (10%)	<u>\$917</u>
Total:	\$10,091

DM

Project Manager

UNIQUE METAL FABRICATIONS, INC

Buyer

General Contractor

From: Cristine Winchester
Sent: Tuesday, January 30, 2018 2:30 PM
To: Kristilyn Vercruysse; Elli Johannsson (ejohannsson@360enggroup.com); Ricardo Montoya (rmontoya@360enggroup.com)
Cc: Tom Haller; Mark Mackey; Cory Rackley
Subject: RE: RFI 136 - PCO #24.

Elli/Ricardo,

To tag onto what Kristilyn said, we just received the deduct back from Austin Awnings for the (24) 6" plates with SS mill finish for \$2,448. Please take this into consideration when vetting the \$12K add from UMI. Also- I just got off the phone with Dave from Unique. He's working to get the deduct from the steel erector today to reduce the welds.

From: Kristilyn Vercruysse [<mailto:Kristilyn@msrdesign.com>]
Sent: Tuesday, January 30, 2018 11:19 AM
To: Elli Johannsson (ejohannsson@360enggroup.com) <ejohannsson@360enggroup.com>; Ricardo Montoya (rmontoya@360enggroup.com) <rmontoya@360enggroup.com>
Cc: Cristine Winchester <cristine.winchester@flintco.com>; Tom Haller <tom@msrdesign.com>
Subject: RFI 136 - PCO #24.

Elli and Ricardo.

We had a conference call with the sub for the shade providers a while back where you wanted to talk through potential solutions for reducing the cost of PCO #24. Flintco is still working through getting a deduct for the stainless steel plates but is there some pending work on revising the details put forth in RFI 136 to reduce the 12,357 dollar change order for the additional steel.

Please confirm where we are at with that.

If we have a deduct coming, does the \$12,357 dollar PCO (attached) seem fair for the work added in RFI 136.

Thank you,
Kristilyn

Kristilyn Vercruysse, AIA, LEED AP, Associate
612 359 3246 T 612 616 8148 C

MSR www.msrdesign.com

We enrich lives and the environment through design.

From: Cory Rackley
Sent: Thursday, February 1, 2018 2:52 PM
To: Ricardo Montoya
Cc: Cristine Winchester; Elli Johannsson; tom@msrdesign.com; Kristilyn Vercruysse
Subject: Re: Erector Deduct for Sail Shade Framing

Ricardo, the light shelf work install has already started, no deduct on this work. The deduct would be very minimal after speaking to the subcontractor.

Cory Rackley
Construction Director // Flintco, LLC
405.835.6425 (d) // 405.520.0059 (c)

On Jan 31, 2018, at 6:11 PM, Ricardo Montoya <rmontoya@360enggroup.com> wrote:

Christine,
Any deduct for the light shelf framing? I know this is outside of COR 004, but I did not see a response on this item.

Ricardo Montoya

<image002.gif>

Ricardo Montoya, PE, ICC SI
Structural Engineer

360 Engineering Group, PLLC
www.360enggroup.com

1630 N. Blackwelder Ave. #5
Oklahoma City, OK 73106

o [405.256.4861](tel:405.256.4861) | d [405.260.5191](tel:405.260.5191) | m [405.301.5976](tel:405.301.5976)

From: Cristine Winchester [<mailto:cristine.winchester@flintco.com>]
Sent: Wednesday, January 31, 2018 5:52 PM
To: Kristilyn Vercruysse <kristilyn@msrdesign.com>; tom@msrdesign.com
Cc: Cory Rackley <CRackley@flintco.com>; Ricardo Montoya <rmontoya@360enggroup.com>; Elli Johannsson <ejohannsson@360enggroup.com>
Subject: Erector Deduct for Sail Shade Framing

Kristilyn and Tom,

Please see below. Cory was able to talk Browers into a \$500 deduct. Not much, but more than we had and his justification is more solid than it sounded on the phone. Once

we get the revised RFI response, I'll have Unique confirm their cost hasn't changed and we should be able to wrap this one up. Let me know if you or 360 see otherwise.

From: Cristine Winchester
Sent: Wednesday, January 31, 2018 2:54 PM
To: Cory Rackley <CRackley@flintco.com>
Subject: FW: COR 004

CRackley@flintco.com

Dave,

There would be no cost in reducing the diameter of the weld. The few extra seconds saved. Would not stop me from having to do all the required set up and welding. It would only save a few seconds per each weld. I would spend more time and money doing the take off. Than I would save making a ¼ inch weld a 3/16 inch weld.
Sorry

Kevin Browsers
Browsers & Associates
P.O. Box 400
Gentry, AR 72734
(479)736-2518 Fax (479)736-0006
kbrowsers@browsersandassociates.com
www.browsersandassociates.com

From: Dave [<mailto:dave@umfi.com>]
Sent: Wednesday, January 31, 2018 8:12 AM
To: kbrowsers@browsersandassociates.com; 'Jess Harp'
Subject: FW: COR 004

Kevin,

Did you ever evaluate whether you can save any labor cost with the attached changes?
Flintco is hammering me about this.

Thanks,
<image005.png>

From: Dave [<mailto:dave@umfi.com>]
Sent: Thursday, January 18, 2018 11:22 AM
To: 'kbrowsers@browsersandassociates.com'; 'Jess Harp'
Subject: FW: COR 004

Kevin,

Please take a look at the attached.

The first one is regarding your add material price for Flintco's RFI 136. Looks like they are reducing the weld requirements.

Let me know if they can save an appreciable amount of money there.

The second file is for the light bar framing that was in the base bid. I have no idea if this has been installed yet. If not look at what cost savings I can tell them for field reducing welds.

Fun!!!

<image005.png>

From: Ricardo Montoya
[<mailto:rmontoya@360enggroup.com>]
Sent: Tuesday, January 16, 2018 4:28 PM
To: dave@umfi.com
Cc: Elli Johannsson; Tom Haller; Kristilyn Vercruysse;
zblair@flintco.com; Cristine Winchester; David Lyon
Subject: COR 004

Dave,

Regarding COR 004, can you review the proposed revisions to RFI 136 and let us know if it will reduce the erection labor line item? Additionally, we have spotted another opportunity to reduce erection labor at the light shelf framing. Please let us know if there are any savings from the proposed light shelf framing revision.

Thanks,
Ricardo Montoya

<image002.gif>

Ricardo Montoya, PE, ICC SI
Structural Engineer

360 Engineering Group, PLLC
www.360enggroup.com



CHANGE ORDER REQUEST: PCO 27

Project Name Norman Central Library
 Flintco Job Number 17039 MSR Job Number 2016005 City of Norman Contract number K-1617-83

TO: Terry Floyd Norman Municipal Authority 201 West Gray Norman, Ok 73070	Subject: Added Heaters at 24-Hour Library
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In Accordance with our contract agreement, for your review and acceptance, we submit this cost proposal

Document Ref: RFI #030 - 24-Hour Library Details - RESPONSE Summary: 2/6/2018 Costs enclosed to provide power into ELEC 129 from 24hr Library for 3 internal heaters as recommended by manufacturer based on OK climate. Specifically, costs are to provide additional 60A breaker at panel LP11 and (1) 1" conduit to serve run of (2) #4AWG and (1) #8 AWG from electrical room 129, requiring coring through stem wall and running underground to exterior location of 24 hour library.	NTP DATE: COR Date: 2/6/2018
Exclusions:	

LABOR, LABOR BURDEN, MATERIALS, SUBCONTRACTS		
Direct Labor		\$ -
Labor Burden	(58% *Sum of all Flintco Labor)	\$ -
Direct Materials		\$ -
Direct Subcontracts		\$ 4,204
SUBTOTAL 1		\$ 4,204
EXPENSES ON LABOR AND MATERIALS		
Consumables	(5.0% of Labor)	-
Small Tools	(5.0% of Labor)	-
SUBTOTAL 2		\$ -
EXPENSES ON LABOR, LABOR BURDEN, MATERIALS		
Data Processing	(0.25% of labor, burden, and materials)	-
Safety	(1.0% of labor, burden, and materials)	-
Warranty	(1.0% of labor, burden, and materials)	-
SUBTOTAL 3		\$ -
SUBCONTRACTOR INSURANCE, OVERHEAD AND FEE		
Bonding	(1.5% of Subcontracts and Self Performed)	\$ 63.06
Builders Risk Insurance	(.08% of Subcontracts)	3
Overhead on Subcontracts	(10% of Subcontracts)	420
Fee on Subcontracts	(10% of Subcontracts)	420
SUBTOTAL 4		\$ 907
SELF PERFORMED WORK INSURANCE, OVERHEAD AND FEE		
Bldrs Risk Insurance	(.6 % of Subs and Self Performed work)	\$ 31
Overhead on Flintco Work	(10% of Self Performed work+ Bond / Ins)	\$ 3
Fee on Flintco Work	(10% of Self Performed work+ Bond / Ins)	\$ 3
SUBTOTAL 5		\$ 37
TOTAL CHANGE ORDER PROPOSAL		\$ 5,148

Flintco, Inc

 James A. Heley

 Date

OWNER

 Terry Floyd

 Date

PRIME ELECTRIC CO. / 400 S. Coltrane, Edmond, OK 73034 • (405) 359-9190

TO: Flintco Construction
 Project Norman Public Library Central
 COR No. _____
 COR Title Add Power for Heater @ 24hr Library

Expires 2/23/2018

COR Date 2/6/2018

Revision Date _____

COR Item No	Description	Qty	Material	Labor		Equipment	
				Hours	Costs	Type	Cost
1	Core 3" Hole (angled)	1	35.00	3.50	\$ 149.63	DJE	\$ 11.22
2	LS-300 Link Seal	8	56.00	2.50	\$ 106.88	DJE	\$ 8.02
3	1" GRC	5'	24.23	0.64	\$ 27.36	DJE	\$ 2.05
4	1" PVC Sch. 80	70'	83.37	3.92	\$ 167.58	DJE	\$ 12.57
5	1" EMT	60'	92.22	4.98	\$ 212.90	DJE	\$ 15.97
6	Power J-box	3	33.05	3.02	\$ 129.11	DJE	\$ 9.68
7	2-#4 THHN	170'	428.57	8.50	\$ 363.38	DJE	\$ 27.25
8	#8 THHN	170'	88.40	1.87	\$ 79.94	DJE	\$ 6.00
9	1P/60A Breaker Install (Minor)	1	1.53	0.61	\$ 26.08	DJE	\$ 1.96
10	Terminate Home Run >50A	1	1.53	0.61	\$ 26.08	DJE	\$ 1.96
11	Misc. Equipment Connection >50A	2	14.64	3.00	\$ 128.25	DJE	\$ 9.62
12	Breaker Quote	1	150.00				
13	Material Staging		11.60	1.66	\$ 70.97	DJE	\$ 5.32
14	Safety Coordination		2.59				
15							
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26							
27							
Totals			\$ 1,022.73	34.81	\$ 1,488.13		\$ 111.61
					Labor Burden	\$ 607.90	
						Sales Tax - Yes 8.75%	\$ 89.49
Total Raw Costs (Labor+Labor Burden+Material+Equipment+Tax)							\$ 3,319.86
Project Management Expense							\$ -
Overhead @ 10%							\$ 331.99
Profit @ 5%							\$ 182.59
Supervision							\$ 369.86
Bonds - No							\$ -
GRAND TOTAL							\$ 4,204.29

NOTES:

*Proposal excludes cutting, patching, or painting of any surface unless specifically included above.
 Proposal assumes all work to be performed during normal working hours and does not include any overtime unless show
 No work to begin until written authorization for this proposal.*