

# CHANGE ORDER REQUEST FORM

CONTRACT NO. **B-36229-A**

DATE OF SUBMISSION **October 28, 2020**

PROJECT DESCRIPTION <i>(route / intersection / bridge no(s).)</i>	45 <sup>th</sup> Street and Calumet Avenue 0710056
CHANGE ORDER REQUEST SUMMARY DESCRIPTION	Design Cost to supplement the Contract Design
PROPOSED SOLUTION SUMMARY	Contractor to provide third party design analysis and deliverables as directed.

NOTE: Upon request from Engineer, enter detailed description on page 2.

ONSET DATE OF CHANGE	<b>March 4, 2019</b>	CHANGE ORDER TYPE	104.03 Extra Work
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## PROPOSED COST AND TIME ADJUSTMENT

**\$50,012.42**

**COST** **COST INCREASE / (DECREASE):** \$ **~~50,251.77~~**

The cost adjustment shall include lump sum and/or estimated totaled unit-priced item costs. Attach a separate sheet of unit price items including item description, unit of measurement, estimated quantity and unit price.

### CHECK APPROPRIATE BOXES PER APPROPRIATE BASIS OF COST CHANGE:

☐ 109.03 Altered Quantities ☒ 109.05(a) Agreed Price ☐ 109.05(b) Force Account ☐ 109.05.02 Delay Costs

PROPOSED COST CHANGE INCLUDES: ☐ Labor ☐ Material ☐ Equipment ☐ Lease Agreement ☒ Subcontractor

**TIME ADJUSTMENT** **INCREASE / (DECREASE):** (work days) **N/A**

### CHECK APPROPRIATE BOXES PER APPROPRIATE BASIS OF TIME CHANGE:

☐ 108.08(a) Excusable, Non-Compensable ☐ 108.08(b) Excusable, Compensable

NOTE: If **Compensable**, attach details based on 109.05.2(a) Allowable Delay Costs.

## SUPPLEMENTAL INFORMATION

Additional information.

CHANGE ORDER ORIGATION:	<input checked="" type="checkbox"/> INDOT / LPA <input type="checkbox"/> Contractor
DOCUMENTS AFFECTED:	
<input checked="" type="checkbox"/> Contract Specifications (ref. doc name/no.)	Click here to enter text.
<input type="checkbox"/> Contract Plans (ref. doc name/no.)	Click here to enter text.
CHANGE ORDER AFFECTS DBE PARTICIPATION:	<input checked="" type="checkbox"/> yes <input checked="" type="checkbox"/> no (if yes, attach details)

CONTRACT NO.

**B-36229-A****UPON WRITTEN REQUEST FROM THE ENGINEER, PROVIDE ADDITIONAL DETAIL**

DATE RECEIVED REQUEST FOR ADDITIONAL DETAIL	[Select Date]	SUBMITTAL DATE OF ADDITIONAL DETAIL	[Select Date]
------------------------------------------------	---------------	----------------------------------------	---------------

**DETAILED DESCRIPTION / JUSTIFICATION:**

*(Include location(s), actions of contractor, owner, and other stakeholders, key events and related cause(s), discoveries, discussions, meetings, and effect on the contract if no action is taken. Also include references to key documents attached or available to support this change order request.)*

**Additional design work was required to supplement the contract design. This work required the rebar supplier to analyze and reproduce the reinforcing design on separate sheets that do not contain the EOR's label, analysis of steel needed to support the reinforcing design, and revisions plus conference calls to resolve the EOR's comments of "appreciable" deflection of the top slab shoring design.**

~~Also included is mark-up from previous work performed not fully reimbursed.~~

**PROPOSED SOLUTION – ADDITIONAL DETAILS:**

*(Include proposed scope of work, means & methods, materials, equipment, utility relocation required, subcontracted scope and the effect on the contract schedule. Also include references to attached documents including, but not limited to, sketches, calculations, photos, material information, and submittals and meeting minutes.)*

**Contractor hired third party design to perform analysis and review.**

**SIGNATURE****Contractor:**Name: (print) Mike Herz(signature) \_\_\_\_\_ Date: October 28, 2020

*NOTE: The Contractor should retain a signed copy of this document for record.*

CHANGE ORDER REQUEST FORM

**CONTRACT NO.**

**B-36229-A**

**ATTACHMENT: UNIT PRICE ITEMS DETAIL**

Attach or paste a unit price item detail.

# WALSH CONSTRUCTION

## Extra Work Summary

Date: October 28, 2020

Project Number: B-36229-A

Project Name: 45th and Calumet

Title: Additional Design Cost\_R02

Item Number	Description	Quantity	Unit	Unit Cost	Mark-up Rule	Mark-up Cost	Total Unit	Total Cost
	<b>SUBCONTRACTOR WORK</b>							
	Third Party Design Cost	1	LS	\$46,002.50	S2	\$3,310.18	\$49,312.68	\$49,312.68
	Advanced Engineers Water and Soil Testing Mark-up	1	LS	<del>\$236.00</del>			<del>\$236.00</del>	<del>\$236.00</del>
	Bond and Insurance Cost (.0129%)	1	LS	<del>\$639.10</del>	S1	<del>\$63.92</del>	<del>\$703.10</del>	<del>\$703.10</del>
				\$636.13		\$63.61		\$699.74
<b>Total Extra Work =</b>		<b>1 LS</b>		<del><b>\$50,251.77</b></del>				

**\$50,012.42**



March 20, 2020  
Collins Project No. 7063

**45th Street Culvert  
Contract B-36229  
Rebar Support Proposal**

Mr. Michael Herz  
Walsh Construction  
1260 E Summit Street  
Crown Point, IN 46307

Dear Mr. Herz:

Collins Engineers, Inc. (Collins) is pleased to submit this proposal to provide a stamped calculation package and drawings as required for rebar temporary supports for the construction of the 45<sup>th</sup> Street Culvert. It is our understanding that the scope of work would include the following with estimates of engineering costs provided:

- Analyze the design for support steel that will hold the rebar design in place both while it's being constructed and during concrete placement. Collins will coordinate with the rebar fabricator to design and locate required support steel. **\$9,000**
- Analyze the design for the need of a concrete mud slab. **\$4,000, additional \$4,000 if required. Total \$8,000**

This work will be performed on a time and materials basis in accordance with our attached Table of Rates. The work will be performed under the direct supervision of a licensed Indiana Professional Engineer.

We look forward to continuing to serve Walsh Construction in this and future projects. If you have any questions or need additional information, please do not hesitate to telephone me at 312-236-2458.

Very truly yours,  
COLLINS ENGINEERS, INC.

A handwritten signature in black ink, appearing to read "M. Haas", is written over a horizontal line.

Michael Haas, S.E., P.E.



Ambassador Steel Fabrication LLC

Change Order No.:  
**CO-0001**

# CHANGE ORDER

<b>Bid Item No.:</b> CO-0001	<b>Job No.:</b> 03719094	<b>Job Description:</b> INDOT 45th Street Realignment	<b>Original C/O Date:</b> 02/28/20	<b>Revised C/O Date:</b>
---------------------------------	-----------------------------	----------------------------------------------------------	---------------------------------------	--------------------------

**Sell To:** W10660  
Walsh Construction Company II  
Email: AccountsPayableIN@walshgroup.,c

**Change Order Description:**  
Detailing/Shop Drawings

Description	Type	Quantity	Unit Price	Line Amount
Detailing Rebar - Epoxy	Add	965.300 TON	35.00	33,785.50

**Comments**

SCOPE OF WORK CONSISTES OF REPLICATING THE REBAR DESIGN AS IT APPEARS IN THE CONTRACT DOCUMENTS WITH THE ADDITION FOR NON-STRUCTURAL SUPPORTING STEEL.

**Total:**

**33,785.50**

**Addition To Contract**

**Accepted By: Name:**

(Please Print)

(Signature)

**Date:**

**Ambassador Steel Fabrication LLC**

1050 St. George Road, Bourbonnais, IL 60914, USA T. 815-929-3770 F. 815-929-0487

**Customer Copy**



Walsh Construction Company  
929 W. Adams  
Chicago, IL 60607

March 9, 2020  
Project No: 10-07063.00  
Invoice No: 47522

Project 10-07063.00 Walsh-Construction Engineering

**Professional Services from February 1, 2020 to February 29, 2020**

Phase 01-081 45th St. Formwork

**Professional Personnel**

	Hours	Rate	Amount	
Senior Engineer (E6)				
Haas, Michael	2.00	244.00	488.00	
Senior Engineer (E5)				
Seiber, Amber	9.00	220.00	1,980.00	
Junior Engineer (E1)				
Meress, Landon	7.00	107.00	749.00	
Totals	18.00		3,217.00	
<b>Total Labor</b>				<b>3,217.00</b>
		<b>Total this Phase</b>		<b>3,217.00</b>
		<b>Total this Invoice</b>		<b>3,217.00</b>

**ACH or Wire Transfer Information :** When transferring funds, please reference the invoice number. Account Name Collins Engineers, Inc., Account No. 240152676, and JPMorgan Chase Routing (ABA) No. 071000013

**Questions:** Please contact our Accounting Department or Project Manager at (312) 704-9300 if there are any questions regarding this invoice. All invoices are due within 30 days. Thank You.

Additional time/cost to complete verification of reinforcement, temporary shoring and forms capable of supporting all reinforcement and design loads per EOR review comments.

## INVOICE

**Bill to:** Walsh Construction  
1260 E. Summit Street  
Crown Point, IN 46307

Date: 03/02/20  
Invoice No. 2010530302  
Project No. 2019-1053T  
Page 1 of 1

**Attn:** Mr. Michael Herz, Project Manager  
[Mherz@WalshGroup.com](mailto:Mherz@WalshGroup.com)

**Project:** Analytical Laboratory Testing (AES Proposal 2020-134T Feb 21, 2020)  
45th Street Grade Separation Project  
Munster, Indiana

**Task 01: Lab Testing Services: Feb 21 through Feb 28, 2020**

Original Scope per Proposal 2020-134T, Feb 21, 2020:

\$2,240.00

Additional Scope: Hexavalent Chromium, Feb 26, 2020:

\$120.00

Sub-Total \$2,360.00

**Current Fee for this Task: \$2,360.00**

**Advance Payment: \$0.00**

**Total Current Invoice: \$2,360.00**

**Please Pay \$2,360.00 at your earliest convenience.**

We appreciate your business!

Note: 2% Interest will be Charged for any account over 30 days from the date of Invoice.

Please remit payment to : Advanced Engineering Services Inc.  
7439 Calumet Avenue  
Hammond, IN 46324

**Summary of Invoices:**

	Invoice No.	Date	Amount	Status
Previous Inv.	1910531216**	12/16/2019	\$965.00	Not Paid
Current Inv.	2010530302	3/2/2020	\$2,360.00	Not Paid
Total Invoiced:			\$3,325.00	

**\*\*Outstanding Over 60 Days**



# Extra Work Summary

Date: 03/02/2020

Project Number: B-36229-A

Project Name: 45th and Calumet

Title: Soil and Water Sample and Lab Testing

Item Number	Description	Quantity	Unit	Unit Cost	Mark-up Rule	Mark-up Cost	Total Unit	Total Cost
	Subcontractor	1	LS	\$2,360.00	S1	\$236.00	\$2,596.00	\$2,596.00
	Bond and Insurance Cost (.0129%)		LS	\$33.49	S1	\$0.00	\$0.00	\$0.00
Total Extra Work =		1	LS					\$2,596.00

## Herz, Michael

---

**From:** Lee Randell, P.E. <lrandell@dlz.com>  
**Sent:** Friday, March 20, 2020 12:26 PM  
**To:** Herz, Michael  
**Cc:** danderson@munster.org; Cortney Beale (cbeale@indot.in.gov); Brad Dailey, P.E.; Arena, Marc  
**Subject:** RE: [EXTERNAL] FW: 45th Munster - Rebar Shop Drawing Submittal, B-36229

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Mike,

Please notify Harris and Collins to begin this process immediately. Also, please let me know if any questions arise during this process so that they can be addressed swiftly.

**Lee Randell, P.E. | Civil Engineer**

574-236-4400 (office) | 219-730-8585 (cell)  
[lrandell@dlz.com](mailto:lrandell@dlz.com) | [www.dlz.com](http://www.dlz.com)



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**From:** Herz, Michael <mherz@walshgroup.com>  
**Sent:** Friday, March 20, 2020 12:00 PM  
**To:** Lee Randell, P.E. <lrandell@dlz.com>  
**Cc:** danderson@munster.org; Cortney Beale (cbeale@indot.in.gov) <cbeale@indot.in.gov>; Brad Dailey, P.E. <bdailey@dlz.com>; Arena, Marc <marena@walshgroup.com>  
**Subject:** RE: [EXTERNAL] FW: 45th Munster - Rebar Shop Drawing Submittal, B-36229

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Lee,

Attached are quotes to perform this work. The sequence and process to get this complete is below. I am prepared to move forward.

- Harris Rebar would begin reproduction drawings of Lochner's reinforcing design in the format Lochner is requiring. Harris Rebar will not be performing design analysis or calculations.
- Collins Engineers would begin design analysis and calculations for a concrete mud slab and supporting steel needed to hold Lochner's design in place during construction and structural concrete placement.
- Collins Engineers would provide their design to Harris Rebar to be included in the drawings.
- Harris Rebar would provide the drawings to Walsh for submission.

It is unfortunate that Lochner will not share the AutoCAD files of their design. It now requires additional time for Harris Rebar to complete this work. Because of this you will not see a duration included in these quotes. In my communication with both Harris and Collins, I am estimating a 4 week duration will be needed before submission. I cannot speak to re-submission durations.

Walsh believes this work to be additional to INDOT requirements and will be submitting a Change Order Request for compensation. Notification was provided on February 18, 2020 should this work cause a delay to the project.

If this sequence and process is acceptable I will notify Harris and Collins to begin.

Mike

---

**From:** Lee Randell, P.E. <[lrandell@dlz.com](mailto:lrandell@dlz.com)>  
**Sent:** Wednesday, March 18, 2020 12:35 PM  
**To:** Herz, Michael <[mherz@walshgroup.com](mailto:mherz@walshgroup.com)>  
**Cc:** [danderson@munster.org](mailto:danderson@munster.org); Cortney Beale ([cbeale@indot.in.gov](mailto:cbeale@indot.in.gov)) <[cbeale@indot.in.gov](mailto:cbeale@indot.in.gov)>; Brad Dailey, P.E. <[bdailey@dlz.com](mailto:bdailey@dlz.com)>; Arena, Marc <[marena@walshgroup.com](mailto:marena@walshgroup.com)>  
**Subject:** RE: [EXTERNAL] FW: 45th Munster - Rebar Shop Drawing Submittal, B-36229

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Mike,

Proceed with any means necessary to provide rebar shop drawings in accordance with the details and references below by the EOR (i.e. Collins).

**Lee Randell, P.E. | Civil Engineer**

574-236-4400 (office) | 219-730-8585 (cell)  
[lrandell@dlz.com](mailto:lrandell@dlz.com) | [www.dlz.com](http://www.dlz.com)



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**From:** Herz, Michael <[mherz@walshgroup.com](mailto:mherz@walshgroup.com)>  
**Sent:** Wednesday, March 18, 2020 12:29 PM  
**To:** Lee Randell, P.E. <[lrandell@dlz.com](mailto:lrandell@dlz.com)>  
**Cc:** [danderson@munster.org](mailto:danderson@munster.org); Cortney Beale ([cbeale@indot.in.gov](mailto:cbeale@indot.in.gov)) <[cbeale@indot.in.gov](mailto:cbeale@indot.in.gov)>; Brad Dailey, P.E. <[bdailey@dlz.com](mailto:bdailey@dlz.com)>; Arena, Marc <[marena@walshgroup.com](mailto:marena@walshgroup.com)>  
**Subject:** RE: [EXTERNAL] FW: 45th Munster - Rebar Shop Drawing Submittal, B-36229

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Lee,

Please describe what you are directing Walsh to proceed with? It would appear the EOR has indicated the need for a structural engineer?

Mike

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**From:** Lee Randell, P.E. <[lrandell@dlz.com](mailto:lrandell@dlz.com)>  
**Sent:** Wednesday, March 18, 2020 12:19 PM  
**To:** Herz, Michael <[mherz@walshgroup.com](mailto:mherz@walshgroup.com)>  
**Cc:** [danderson@munster.org](mailto:danderson@munster.org); Cortney Beale ([cbeale@indot.in.gov](mailto:cbeale@indot.in.gov)) <[cbeale@indot.in.gov](mailto:cbeale@indot.in.gov)>; Brad Dailey, P.E. <[bdailey@dlz.com](mailto:bdailey@dlz.com)>  
**Subject:** [EXTERNAL] FW: 45th Munster - Rebar Shop Drawing Submittal, B-36229  
**Importance:** High

**CAUTION:** This email originated from outside the organization. Do not click links or open attachments unless you are expecting them and know the content is safe.

Mike,

See response below regarding the rebar shop drawings. CADD files will not be available. Please proceed with haste.

**Lee Randell, P.E. | Civil Engineer**

574-236-4400 (office) | 219-730-8585 (cell)  
[lrandell@dlz.com](mailto:lrandell@dlz.com) | [www.dlz.com](http://www.dlz.com)



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**From:** John D. Hilsen <[jhilsen@reltd.com](mailto:jhilsen@reltd.com)>  
**Sent:** Wednesday, March 18, 2020 10:50 AM  
**To:** Lee Randell, P.E. <[lrandell@dlz.com](mailto:lrandell@dlz.com)>  
**Cc:** Dustin C. Anderson ([danderson@munster.org](mailto:danderson@munster.org)) <[danderson@munster.org](mailto:danderson@munster.org)>; Brad Dailey, P.E. <[bdailey@dlz.com](mailto:bdailey@dlz.com)>; Beale, Cortney A <[CBeale@indot.IN.gov](mailto:CBeale@indot.IN.gov)>  
**Subject:** FW: 45th Munster - Rebar Shop Drawing Submittal

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Lee,

Please see response below from Lochner regarding your additional questions on the rebar shop drawing submittal.

Any questions please let us know.

Thanks,

**John D. Hilsen, PE**  
*Senior Civil Engineer*



17000 South Park Avenue  
South Holland, IL 60473  
708-225-8241 *direct*  
708-359-5548 *cell*  
[www.reltd.com](http://www.reltd.com)

---

**From:** Herring, Dan <[dherring@hwlochner.com](mailto:dherring@hwlochner.com)>  
**Sent:** Wednesday, March 18, 2020 10:45 AM  
**To:** John D. Hilsen <[jhilsen@reltd.com](mailto:jhilsen@reltd.com)>  
**Cc:** Shelton, Matt <[mshelton@hwlochner.com](mailto:mshelton@hwlochner.com)>  
**Subject:** RE: 45th Munster - Rebar Shop Drawing Submittal

As you know, we have discussed this many times and the contract requirements are clear when the requirements included in the signed sealed plans and INDOT SS are followed.

It is our position as Structural Engineer of Record that the shop drawing sample sent and as described in previous meetings and emails would generally meet the requirements under INDOT SS104.01 for "best general practice" related to development of reinforcing shop drawings as required by the signed sealed plans. In addition, since shop drawings are working drawings under the INDOT SS, additional requirements apply and this was intended. Please refer to the previous notes and emails dating back to May/June of 2019 discussing the subject and summary below. In summary the requirement is that...

.... reinforcing steel shop drawings will be provided for the tunnel structure as required by the plans (we note that plan requirements are in addition to and govern over specification requirements per contract). These new working drawings (INDOT SS 101.74/105.02) would be produced utilizing the information provided in our sealed/signed plan set (not a cut and paste of our own design details). Our call to Harris rebar (Walsh's supplier and nationally recognized expert in the field of reinforcing supply and detailing) indicates that they are more than capable of providing shop drawings as they have on many other projects (as they have on many other of our projects nationally). We agreed with Harris that any number of industry best practice guidelines (required by INDOT SS 104.01) could be used and that ACI Standard Practice is a reasonable benchmark for production of reinforcing steel shop drawings (ACI publication SP-66 includes detailing practice for highway type structures for instance). For detailing related to "contract bars" shown in the plans, the shop drawings need not be signed and sealed as we are responsible as Structural Engineer of Record for these bars and will review and approve their detailing and placement within the shop drawing submittal. Once Harris (or other equivalent expert) is directed to move forward by Walsh, we are happy to continue our conversation with them or answer any RFI's they may have related to our work.

Additionally, as we discussed, Harris did indicate, that they will need temporary works engineer guidance due to the unique nature of the reinforcing on this project (size and weight of reinforcing mats) for the "non-contract" bars which will support the reinforcing steel mats and hold them in a

fixed and firm position as required by contract (INDOT SS 703). Under the working drawing provision of the INDOT SS an engineer's seal and signature taking responsibility for these items is required.

Regarding the development of line work, the signed sealed plans specifically indicate that the concrete placement drawings are to precede the reinforcing shop drawings and be used in development of same. Based on this, the previously developed line work by the contractor for the Concrete Placement Plans, corrected for accuracy to the signed sealed plans including previous submittal comments, is to be used for development of the reinforcing shop drawings. Release of cadd files would destroy the independence of this requirement and consequently are not warranted or needed.

---

**From:** John D. Hilsen <[jhilsen@reltd.com](mailto:jhilsen@reltd.com)>  
**Sent:** Monday, March 16, 2020 2:24 PM  
**To:** Herring, Dan <[dherring@hwlochner.com](mailto:dherring@hwlochner.com)>  
**Cc:** Shelton, Matt <[mshelton@hwlochner.com](mailto:mshelton@hwlochner.com)>  
**Subject:** FW: 45th Munster - Rebar Shop Drawing Submittal

[EXTERNAL EMAIL] This email originated outside of Lochner. **\*\*NEVER CLICK or OPEN\*\*** unexpected links or attachments. **\*\*NEVER\*\*** provide User ID or Password. If this email seems suspicious, forward the email to spam @ hwlochner.com for inspection.

Dan,

Here is a follow up to my phone message on Friday.

Looks like Harris is not going to complete the Rebar Shop Drawings, so Walsh is going to use Collins to complete them. They wanted confirmation that the format of the sample provide would be sufficient for this project. Walsh/Collins is also asking if CADD would be shared to assist in these efforts.

Please let me know.

Thanks,

**John D. Hilsen, PE**  
*Senior Civil Engineer*



17000 South Park Avenue  
South Holland, IL 60473  
708-225-8241 *direct*  
708-359-5548 *cell*  
[www.reltd.com](http://www.reltd.com)

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**From:** Lee Randell, P.E. <[lrاندell@dlz.com](mailto:lrاندell@dlz.com)>  
**Sent:** Monday, March 16, 2020 2:20 PM  
**To:** John D. Hilsen <[jhilsen@reltd.com](mailto:jhilsen@reltd.com)>  
**Subject:** RE: 45th Munster - Rebar Shop Drawing Submittal

John,

Just a follow up to our phone conversation Friday evening. Please confirm whether the format of the previously attached sample is what is expected. In addition, would Lochner be willing to release the underpass CAD files to the engineering firm Walsh is intending to use (Collins) to expedite the shop drawing process? Acceleration is being considered to complete construction this year, due to TERS and utility delays.

Thanks,

**Lee Randell, P.E. | Civil Engineer**

574-236-4400 (office) | 219-730-8585 (cell)  
[lrandell@dlz.com](mailto:lrandell@dlz.com) | [www.dlz.com](http://www.dlz.com)



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**From:** John D. Hilsen <[jhilsen@reltd.com](mailto:jhilsen@reltd.com)>  
**Sent:** Thursday, March 05, 2020 12:02 PM  
**To:** Lee Randell, P.E. <[lrandell@dlz.com](mailto:lrandell@dlz.com)>; Beale, Cortney A <[CBeale@indot.IN.gov](mailto:CBeale@indot.IN.gov)>  
**Subject:** FW: 45th Munster - Rebar Shop Drawing Submittal

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FYI, Harris had been provided with as sample (that they prepared on another project) of what Lochner is looking for on 2/19. Based on Dan's conversation with Mark, Harris understands and knows how to prepare the shop drawings Lochner is looking for in this submittal.

Any questions please let me know.

**John D. Hilsen, PE**  
*Senior Civil Engineer*



17000 South Park Avenue  
South Holland, IL 60473  
708-225-8241 *direct*  
708-359-5548 *cell*  
[www.reltd.com](http://www.reltd.com)

---

**From:** Herring, Dan <[dherring@hwlochner.com](mailto:dherring@hwlochner.com)>  
**Sent:** Wednesday, March 4, 2020 5:58 PM  
**To:** John D. Hilsen <[jhilsen@reltd.com](mailto:jhilsen@reltd.com)>  
**Subject:** Fwd: 45th Munster

Fyi

Begin forwarded message:

**From:** "Herring, Dan" <[dherring@hwlochner.com](mailto:dherring@hwlochner.com)>  
**Date:** February 19, 2020 at 3:59:00 PM CST  
**To:** "[mcrane@harrisrebar.com](mailto:mcrane@harrisrebar.com)" <[mcrane@harrisrebar.com](mailto:mcrane@harrisrebar.com)>  
**Subject:** 45th Munster

Hello Mark:

Just passing along a sample of rebar shops I have seen before from Harris. This was reviewed by a team of mine on another project.

Best Regards, Dan

**Daniel W. Herring, P.E., S.E.**  
*Operations Manager*  
*Vice President*  
LOCHNER  
Direct: 312.994.9727  
Mobile: 219.916.5354  
[dherring@hwlochner.com](mailto:dherring@hwlochner.com)  
[www.hwlochner.com](http://www.hwlochner.com)

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