

PROJECT: 2021 CIP - Highlands Ranch High School

CONTRACTOR: Golden Triangle Construction

DATE: October 18, 2021

CHANGE ORDER #: 14

This contract shall be changed as follows:

CHANGES:

- | | |
|--|-------------|
| 1. PCR#26 - Ductwork Modifications | \$59,005.00 |
| 2. - Associated with responses to RFIs 13 and 15 | \$0.00 |
| 3. | \$0.00 |
| 4. | \$0.00 |
| 5. | \$0.00 |

TOTAL CHANGE ORDER: \$59,005.00

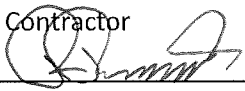
By signing below the contractor acknowledges acceptance of this change order as full compensation to the contractor for all costs related in any way to this work and its effect on other work already contracted for.

CONTRACT STATUS:

Original Contract Sum	\$6,209,844.00
Previous Change Orders	\$480,842.00
Current Contract	\$6,690,686.00
This Change Order	\$59,005.00
NEW CONTRACT TOTAL	\$6,749,691.00

The Contract time will be extended by 0 calendar days. Therefore, the date of Final Completion as of the date of this Change Order is September 30, 2021

NOT VALID until signed by the Contractor, Architect, and Owner, and approved by the School District's Board of Education (if applicable).

<u>Wold Architects and Engineers</u>		<u>Douglas County School District</u>
Consultant	Contractor	
By		By
Date	<u>10/19/21</u>	Date



Proposed Change Request

Project: Highlands Ranch HS Renovation
PCR No.: 26
Date: August 24, 2021
GTC Project No.: 1732

To: NV5
Attn: Wes Breeden
2420 W. 26th Ave., Suite D-360
Denver, CO 80211

Description of Change:

Response to RFI No. 13, dated 6/11/21 and RFI No. 15, dated 6/10/21

Add: \$59,005

-Includes ductwork modifications and additional fittings due required due to existing conditions.

Assumptions:

- None

Scope and PCR excludes:

- None

Contract Time Extension:

Request for Extension: 0 Days
Additional Labor Required: 0 Man Hours

CONTRACTOR'S CERTIFICATE:

This is to certify that, to the best of our knowledge and belief, the cost request submitted in response to this scope revision is accurate and complete.

Signed: Dirk Samuelson Date: 8/24/2021
Dirk Samuelson, Senior Project Manager
GTC, Inc.

OWNER'S CERTIFICATE

This is to certify that the owner has reviewed the proposal and authorizes GTC, Inc. to proceed with this scope revision.

Signed: _____ Date: _____
Wes Breeden, Project Manager
NV5

Project: **Highlands Ranch HS Renovation**
 Item : **Response to RFI No. 13, dated 6/11/21 and RFI No. 15, dated 6/10/21**
 PCR No.: **26**
 Date: August 24, 2021



Description	Qty	Unit	Unit Cost	Labor Cost	Unit Cost	Material Cost	Unit Cost	Subcontract Cost	Total Costs
GTC Work to Perform			0.00 >	0	0.00 >	0	0.00 >	0	0
Layout & Coordination	0	mhr	64.00 >	0	0.00 >	0	0.00 >	0	0
Subs & Suppliers	0		0.00 >	0	0.00 >	0	0.00 >	0	0
Braconier Mechanical	0		0.00 >	0	0.00 >	0	0.00 >	0	0
-Ductwork Modifications	1	ls	0.00 >	0	0.00 >	0	55,969.00 >	55,969	55,969
	0		0.00 >	0	0.00 >	0	0.00 >	0	0
General Conditions	0		0.00 >	0	0.00 >	0	0.00 >	0	0
Project Engineer	0	mhr	0.00 >	0	0.00 >	0	0.00 >	0	0
Working Foreman: 50% Productive	0	wk	0.00 >	0	0.00 >	0	0.00 >	0	0
Job Trailer	0	wk	0.00 >	0	0.00 >	0	0.00 >	0	0
Superintendent Trucking	0	wk	0.00 >	0	0.00 >	0	0.00 >	0	0
Reproduction Cost	0	ls	0.00 >	0	0.00 >	0	0.00 >	0	0
Dumpster/Rubbish Removal	0	ld	0.00 >	0	350.00 >	0	0.00 >	0	0
Subtotal				0		0		55,969	55,969
Fringe Benefits	15.00%			0					0
Insurance & Payroll Taxes	37.25%			0					0
Sales Taxes	0.00%					0			0
Small Tools	2.00%					0			0
Subtotal				0		0		55,969	55,969
Building Permit - BY OWNER	0.00%							0	0
City & County Use Taxes - BY OWNER	0.00%							0	0
Builders Risk Insurance	0.14%							78	78
General Insurance	0.90%							504	504
Subtotal				0		0		56,551	56,551
Performance & Payment Warranty Bond	0.84%							475	475
Overhead & Fee	3.50%							1,979	1,979
Total				0		0		59,005	59,005

Date: 8/19/2021

To: Dirk Samuelson
GTC

RE: DCSD HRHS RFI 13&15 duct changes
Braconier Plumbing and Heating is in receipt of the following document:
RFI's 13 & 15

This document adds the following scope of work for us:

1. Additional duct fittings and modifications as required by existing conditions and confirmed by RFI's. See MechOne letter for additional detail.

Exclusions:

Insulation of existing or new (none is on existing)

Our price for this change is: \$ 55,969

Please advise on the status of this change at your convenience. Until further notice, we will continue with our contract work.

Sincerely,



Paul Dense
Vice President

Braconier Plumbing and Heating
CHANGE ORDER PROPOSAL REQUEST SUMMARY

Date: 8/19/2021
 Project Name: DCSD CTL
 Contract / Project No.:
 Description of Change: RFI 13 & 15 duct changes

- 0.0% Sales Tax Rate
- 15% Overhead & Profit on Self-Performed Work
- 15% Overhead & Profit on Subcontracted Work
- 1.16% Payment & Performance Bond Rate:
- 0% Textura Usage Fee

Braconier Self-Performed Scope of Work:

	Material	Manhours
Material & Labor Hours per the Attached Takeoff		
Material & Labor Hours per the Attached Equipment Takeoff	\$ -	0
Material Handling		0
Non-Working Direct Supervision		8
Rental Equipment (scissor lift)	\$ -	
Project Management		4

MATERIAL	Material/Equipment Subtotal:	\$ -
	Sales Tax:	\$ -
	Material/Equipment Total:	<u>\$ -</u>

LABOR	Labor Manhours:	12
	Composite Hourly Wage Rate:	\$ 102.45
	Labor Cost Total:	<u>\$ 1,229</u>

Braconier Self-Performed Cost Subtotal (Material + Labor):	\$ 1,229	
Braconier Self-Performed Overhead & Profit:	\$ 184	
Braconier Self-Performed Total:		<u>\$ 1,414</u>

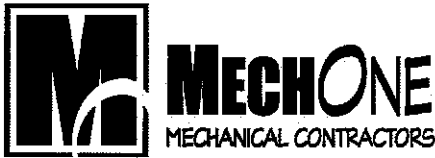
3rd Tier Subcontractors:

HVAC Sheetmetal	\$ 46,881
Curb Caps	\$ -
DDC Temperature Controls	\$ -
Testing, Adjusting, and Balancing	\$ -
Electrical	
Structural Steel Platform	
Engineering	

3rd Tier Subcontractor Cost Subtotal:	\$ 46,881	
Overhead and Profit on Subcontractors:	\$ 7,032	
3rd Tier Subcontractor Cost Total:		<u>\$ 53,913</u>

Payment & Performance Bond:	\$ 642
Textura Usage Fee:	\$ -

COST PROPOSAL: \$ 55,969



45 Inverness Drive East
Englewood, CO 80112
Phone: 720-502-3530

August 19, 2021

Mr. Steven Van Wormer
Braconier Plumbing & Heating

RE: DCSD Highlands Ranch H.S. – RFI #05 Pricing

Thank you for the opportunity to submit the following Division 23 Sheet Metal only proposal for the above referenced project in Highlands Ranch, Colorado. The following is our scope of work and price:

1. Inclusions:

- a. Furnished Cut Sheets/Sketch Drawings per CRA Request
- b. RTU-2: RTU/Curb Relocated to Avoid Screen Wall, Demo Existing SA, New Fittings Required
- c. RTU-3: RTU/Curb Relocated , Demo Existing SA, New Fittings Required
- d. RTU-5: Additional Demo Required, Had to Split Bar Joists, New Fittings to Marriage around Joist
- e. RTU-6: RTU/Curb Relocated to tie back into Existing, Had to Modify Existing, Additional Demo, New Fittings
- f. RTU-9 thru 11: Existing SA Duct Extremely Undersized, Roof Openings Undersized, Additional Demo Required, Additional Duct Fittings Required

2. Clarifications:

- a. Excludes Duct Wrap
- b. Excludes Refurbishing/Warranty/Replacement of Existing Equipment
- c. Excludes Over Time
- d. Excludes Controls
- e. Excludes Structural/Supplemental Steel

3. Exclusions: Over Time, Duct Wrap

4. Total Prices -	RTU-2 \$5,607.00
	RTU-3 \$6,577.00
	RTU-5 \$10,313.00
	RTU-6 \$9,656.00
	RTU-9 \$4,650.00
	RTU-10 \$3,546.00
	RTU-11 \$6,532.00

Add 1.5% for Payment and Performance bond not included in our bid price.

Our price is valid, as quoted, for 60 days from the date of this proposal.

Sincerely,

Dan McMurray
Area Manager

MechOne, Inc.

PROJECT NAME: DCSD Highlands Ranch HS
 JOB NO: 21023
 DESCRIPTION: RTU-2 Relocated
 Print: _____

DATE: August 19, 2021
 C.O.R. : _____
 ASI: _____
 RFI: #05

LABOR

10.00	HRS.	SM SHOP	\$80.00 =	\$800.00
1.50	HRS.	SHOP FOREMAN	\$85.00 =	\$127.50
1.00	HRS.	SHOP GENERAL FOREMAN	\$88.00 =	\$88.00
12.50	HRS.	SHOP BURDEN	\$19.00 =	\$237.50
24.00	HRS.	FIELD JOURNEYMEN	\$80.00 =	\$1,920.00
3.60	HRS.	FIELD FOREMAN	\$85.00 =	\$306.00
2.40	HRS.	FIELD GENERAL FOREMAN	\$88.00 =	\$211.20
0.00	HRS.	CAD OPERATOR	\$88.00 =	\$0.00
0.50	HRS.	PROJECT MANAGER	\$97.00 =	\$48.50
0.00	HRS.	PROJECT COORDINATOR	\$61.00 =	\$0.00
0.00	DAYS	SUBSISTENCE @ \$90.00 Day	\$135.00 =	\$0.00
TOTAL LABOR COST				\$3,738.70

MATERIAL

BUYOUTS -	\$0.00
BUYOUTS -	\$0.00
COST OF MATERIAL	\$719.00
TAXES @ 8.65%	\$62.19
MATERIAL HANDLING @ 5%	\$35.95
SMALL TOOLS @ 4% of Labor	\$149.55
CONSUMABLES @ 4% of Labor	\$149.55
TOTAL MATERIAL COST	\$1,116.24

EQUIPMENT

0.00	HRS	2 TON STAKEBED	\$18.18 =	\$0.00
0.00	HRS	1/2 TON PICKUP	\$10.78 =	\$0.00
0.00	HRS	DUCT HOIST	\$4.35 =	\$0.00
0.00	HRS	SCISSOR LIFT	\$17.98 =	\$0.00
0.00	HRS	JLG LIFT	\$29.00 =	\$0.00
0.00	HRS	FORK LIFT	\$45.98 =	\$0.00
0.00	HRS	WELDING MACHINE	\$12.67 =	\$0.00
0.00	HRS	CYBERMATION	\$350.00 =	\$0.00
0.00	HRS	COIL LINE	\$550.00 =	\$0.00
0.00	HRS	WHISPER LOCK	\$35.00 =	\$0.00
0.00	HRS	SPIRAL MACHINE	\$155.00 =	\$0.00
TOTAL EQUIPMENT COST				\$0.00

SUBCONTRACTORS

TOTAL SUBCONTRACTOR COST	\$0.00
---------------------------------	---------------

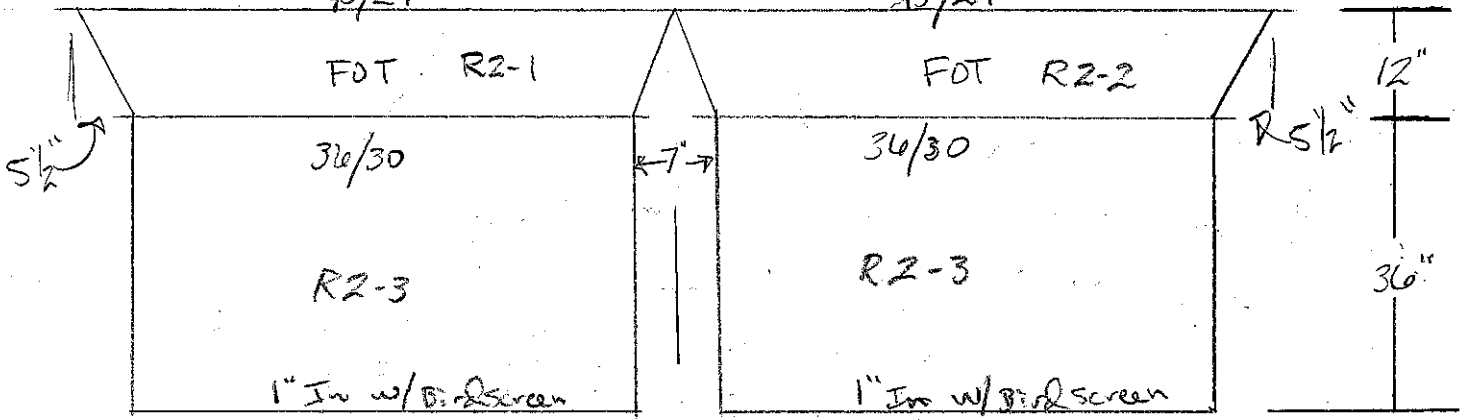
SUBTOTAL COST	\$4,854.94
WARRANTY @ 3%	\$0.00
OVERHEAD - 10%	\$485.49
PROFIT - 5%	\$267.02
OVERHEAD ON SUBS - 5%	\$0.00
SUBTOTAL	\$5,607.46
BOND @1.5%	\$0.00

TIME EXTENSION REQUIRED:		TOTAL COST	\$5,607
---------------------------------	--	-------------------	----------------

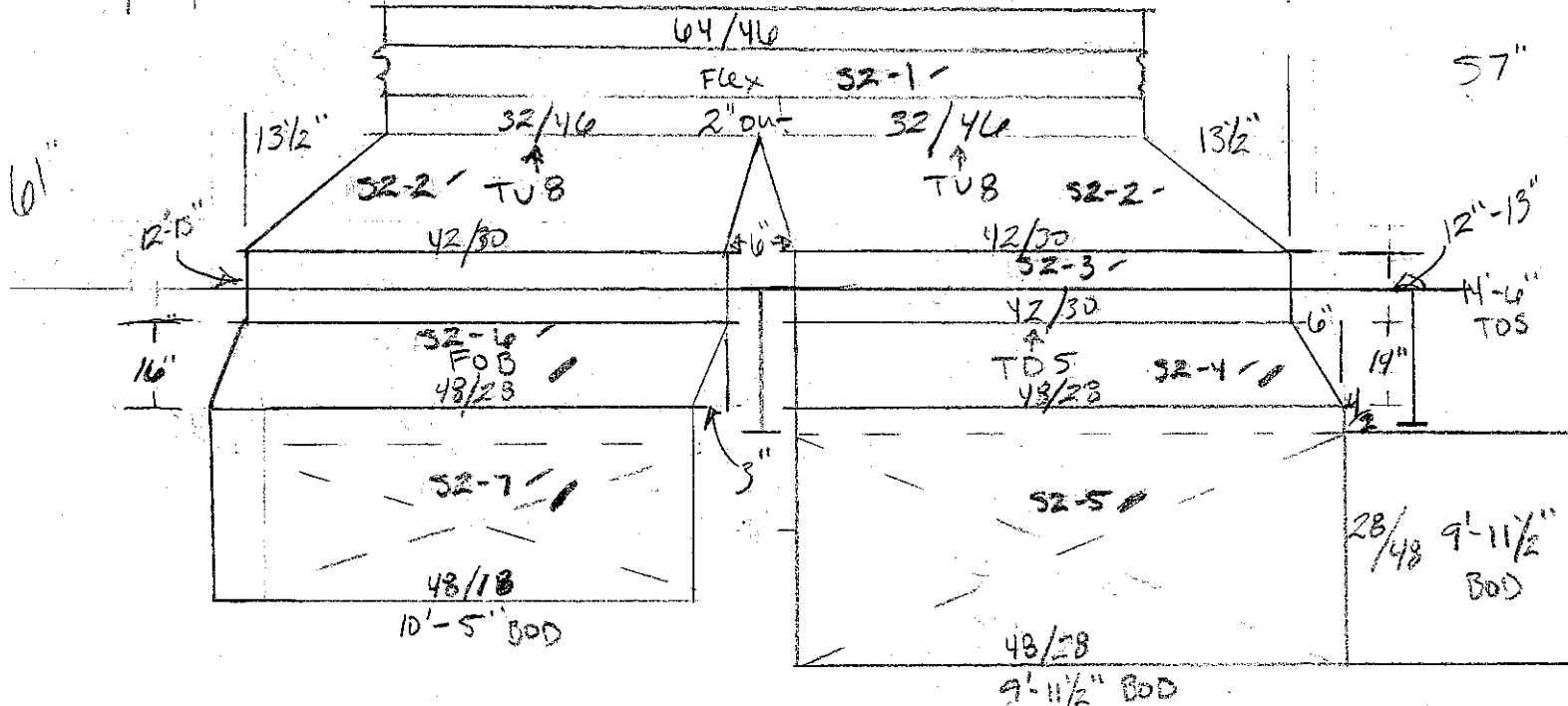
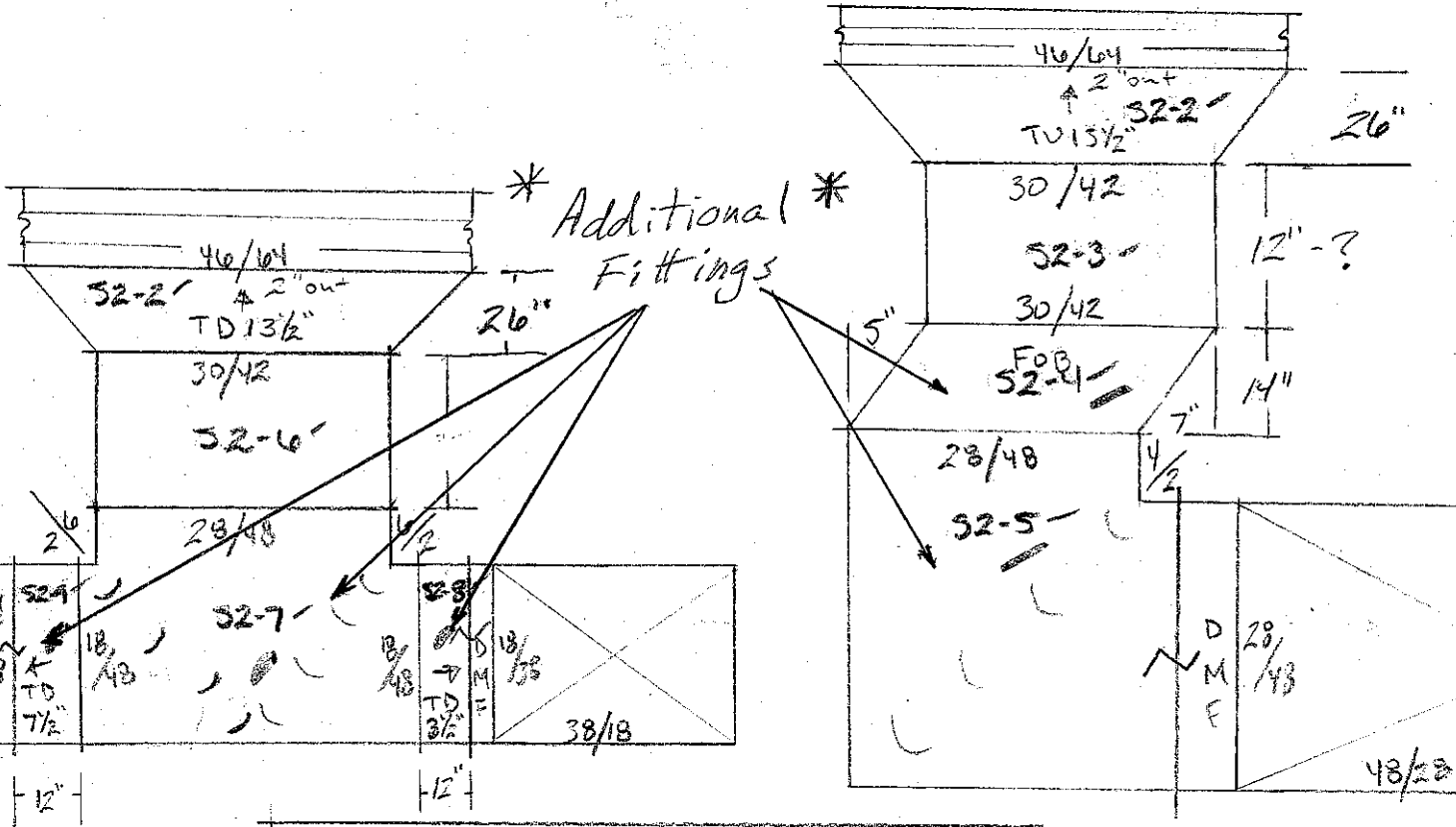
This Quote is void unless written notification to proceed is received by MechOne within (30) days from date Submitted

RTV-2
45/24

45/24



30/30
7-8 5/8" dia
81 total



MechOne, Inc.

PROJECT NAME: DCSD Highlands Ranch HS
 JOB NO: 21023
 DESCRIPTION: RTU-3 Relocated
 Print: _____

DATE: August 19, 2021
 C.O.R. : _____
 ASI: _____
 RFI: #05

LABOR

11.00	HRS.	SM SHOP	\$80.00 =	\$880.00
1.65	HRS.	SHOP FOREMAN	\$85.00 =	\$140.25
1.10	HRS.	SHOP GENERAL FOREMAN	\$88.00 =	\$96.80
13.75	HRS.	SHOP BURDEN	\$19.00 =	\$261.25
31.00	HRS.	FIELD JOURNEYMEN	\$80.00 =	\$2,480.00
4.65	HRS.	FIELD FOREMAN	\$85.00 =	\$395.25
3.10	HRS.	FIELD GENERAL FOREMAN	\$88.00 =	\$272.80
0.00	HRS.	CAD OPERATOR	\$88.00 =	\$0.00
0.50	HRS.	PROJECT MANAGER	\$97.00 =	\$48.50
0.00	HRS.	PROJECT COORDINATOR	\$61.00 =	\$0.00
0.00	DAYS	SUBSISTENCE @ \$90.00 Day	\$135.00 =	\$0.00
TOTAL LABOR COST				\$4,574.85

MATERIAL

BUYOUTS -	\$0.00
BUYOUTS -	\$0.00
COST OF MATERIAL	\$663.00
TAXES @ 8.65%	\$57.35
MATERIAL HANDLING @ 5%	\$33.15
SMALL TOOLS @ 4% of Labor	\$182.99
CONSUMABLES @ 4% of Labor	\$182.99
TOTAL MATERIAL COST	\$1,119.49

EQUIPMENT

0.00	HRS	2 TON STAKEBED	\$18.18 =	\$0.00
0.00	HRS	1/2 TON PICKUP	\$10.78 =	\$0.00
0.00	HRS	DUCT HOIST	\$4.35 =	\$0.00
0.00	HRS	SCISSOR LIFT	\$17.98 =	\$0.00
0.00	HRS	JLG LIFT	\$29.00 =	\$0.00
0.00	HRS	FORK LIFT	\$45.98 =	\$0.00
0.00	HRS	WELDING MACHINE	\$12.67 =	\$0.00
0.00	HRS	CYBERMATION	\$350.00 =	\$0.00
0.00	HRS	COIL LINE	\$550.00 =	\$0.00
0.00	HRS	WHISPER LOCK	\$35.00 =	\$0.00
0.00	HRS	SPIRAL MACHINE	\$155.00 =	\$0.00
TOTAL EQUIPMENT COST				\$0.00

SUBCONTRACTORS

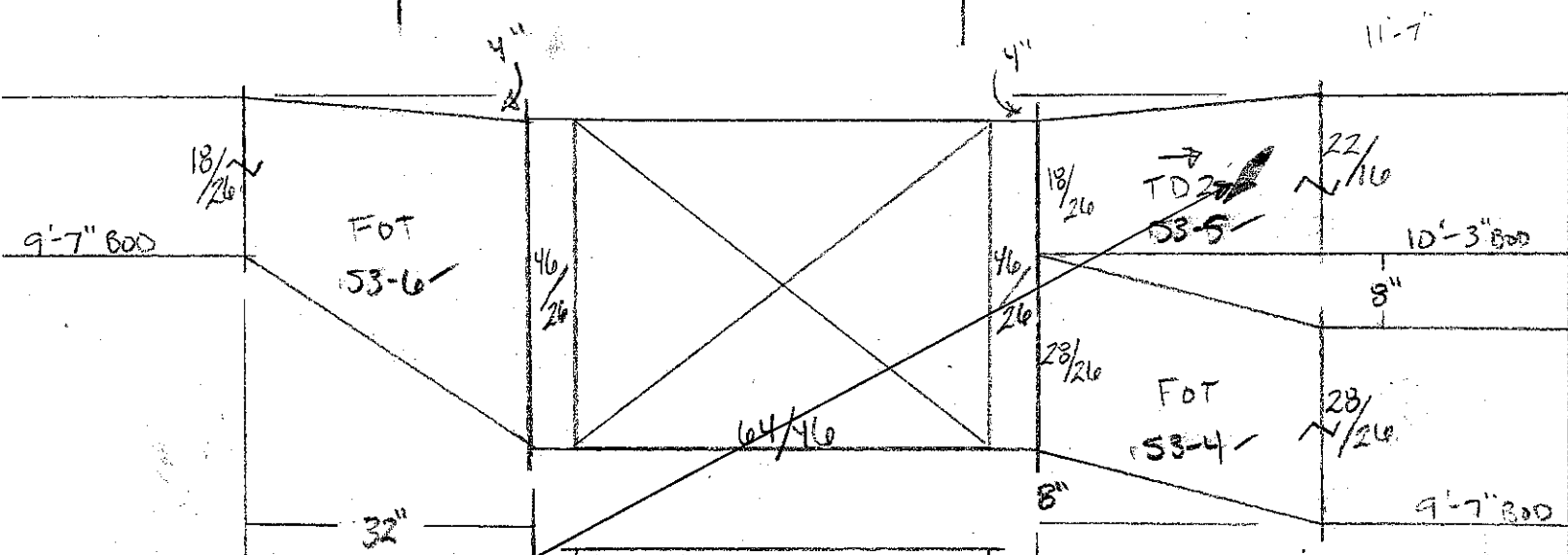
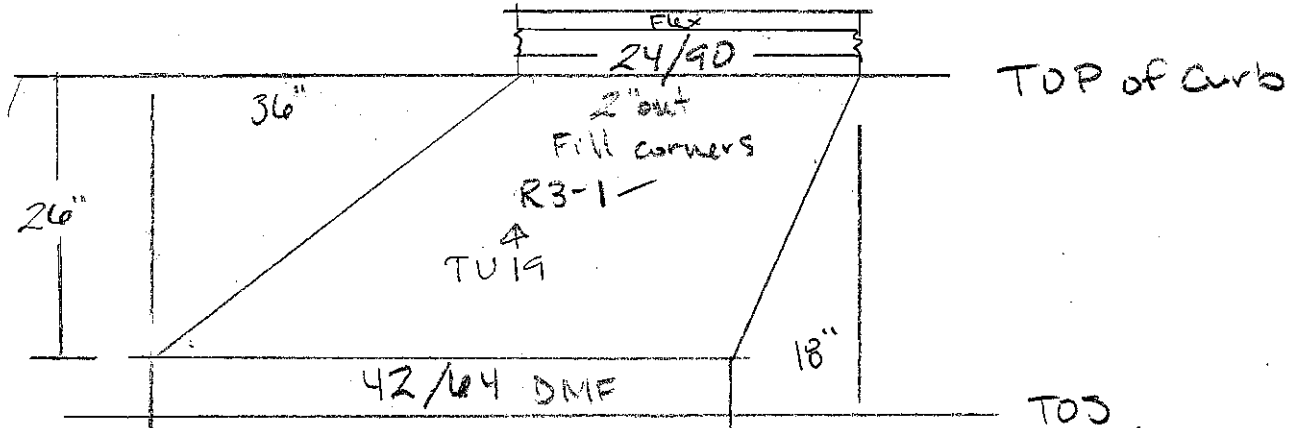
TOTAL SUBCONTRACTOR COST **\$0.00**

SUBTOTAL COST	\$5,694.34
WARRANTY @ 3%	\$0.00
OVERHEAD - 10%	\$569.43
PROFIT - 5%	\$313.19
OVERHEAD ON SUBS - 5%	\$0.00
SUBTOTAL	\$6,576.96
BOND @1.5%	\$0.00

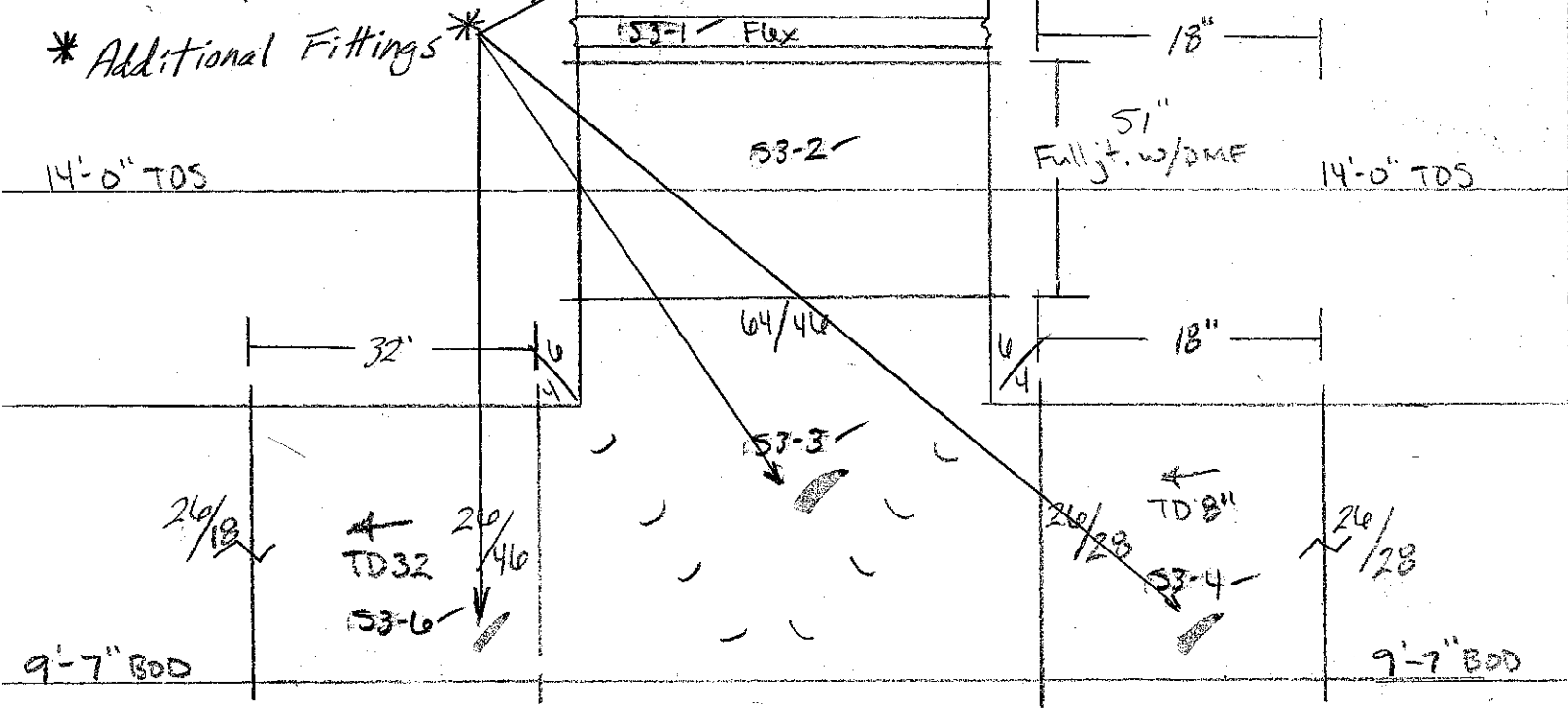
TIME EXTENSION REQUIRED: **TOTAL COST** **\$6,577**

This Quote is void unless written notification to proceed is received by MechOne within (30) days from date Submitted

RTU-3



* Additional Fittings *



MechOne, Inc.

PROJECT NAME: DCSD Highlands Ranch HS
JOB NO: 21023
DESCRIPTION: RTU-5
 Split Bar Joists
Print: _____

DATE: August 19, 2021
C.O.R. : _____
ASI: _____
RFI: #05

LABOR

22.00	HRS.	SM SHOP	\$80.00 =	\$1,760.00
3.30	HRS.	SHOP FOREMAN	\$85.00 =	\$280.50
2.20	HRS.	SHOP GENERAL FOREMAN	\$88.00 =	\$193.60
27.50	HRS.	SHOP BURDEN	\$19.00 =	\$522.50
40.00	HRS.	FIELD JOURNEYMEN	\$80.00 =	\$3,200.00
6.00	HRS.	FIELD FOREMAN	\$85.00 =	\$510.00
4.00	HRS.	FIELD GENERAL FOREMAN	\$88.00 =	\$352.00
0.00	HRS.	CAD OPERATOR	\$88.00 =	\$0.00
0.50	HRS.	PROJECT MANAGER	\$97.00 =	\$48.50
0.00	HRS.	PROJECT COORDINATOR	\$61.00 =	\$0.00
0.00	DAYS	SUBSISTENCE @ \$90.00 Day	\$135.00 =	\$0.00
TOTAL LABOR COST				\$6,867.10

MATERIAL

BUYOUTS -	\$0.00	
BUYOUTS -	\$0.00	
COST OF MATERIAL	\$1,331.00	
TAXES @ 8.65%	\$115.13	
MATERIAL HANDLING @ 5%	\$66.55	
SMALL TOOLS @ 4% of Labor	\$274.68	
CONSUMABLES @ 4% of Labor	\$274.68	
TOTAL MATERIAL COST		\$2,062.05

EQUIPMENT

0.00	HRS	2 TON STAKEBED	\$18.18 =	\$0.00
0.00	HRS	1/2 TON PICKUP	\$10.78 =	\$0.00
0.00	HRS	DUCT HOIST	\$4.35 =	\$0.00
0.00	HRS	SCISSOR LIFT	\$17.98 =	\$0.00
0.00	HRS	JLG LIFT	\$29.00 =	\$0.00
0.00	HRS	FORK LIFT	\$45.98 =	\$0.00
0.00	HRS	WELDING MACHINE	\$12.67 =	\$0.00
0.00	HRS	CYBERMATION	\$350.00 =	\$0.00
0.00	HRS	COIL LINE	\$550.00 =	\$0.00
0.00	HRS	WHISPER LOCK	\$35.00 =	\$0.00
0.00	HRS	SPIRAL MACHINE	\$155.00 =	\$0.00
TOTAL EQUIPMENT COST				\$0.00

SUBCONTRACTORS

TOTAL SUBCONTRACTOR COST	\$0.00
---------------------------------	---------------

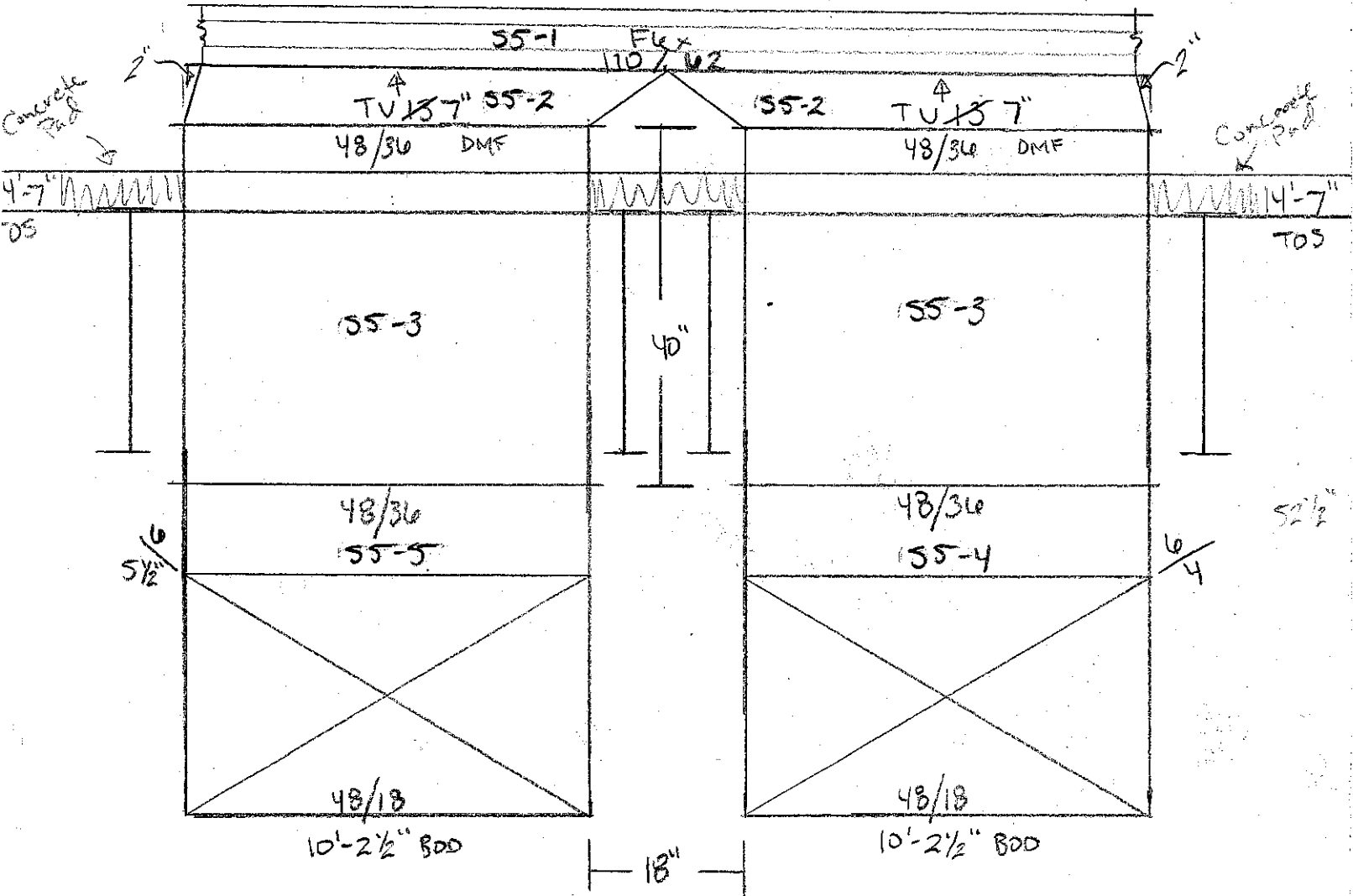
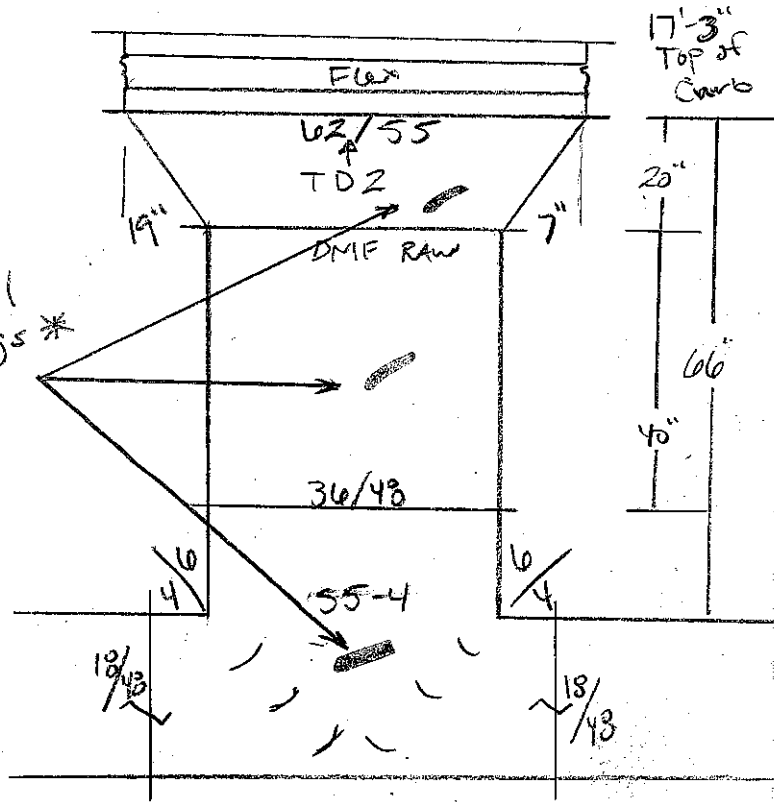
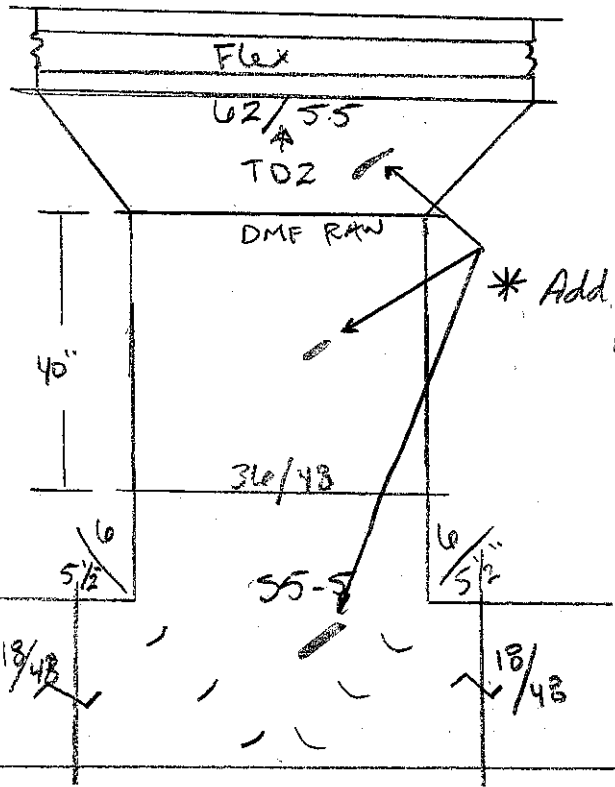
SUBTOTAL COST	\$8,929.15
WARRANTY @ 3%	\$0.00
OVERHEAD - 10%	\$892.91
PROFIT - 5%	\$491.10
OVERHEAD ON SUBS - 5%	\$0.00
SUBTOTAL	\$10,313.17
BOND @1.5%	\$0.00

TIME EXTENSION REQUIRED:

TOTAL COST **\$10,313**

This Quote is void unless written notification to proceed is received by MechOne within (30) days from date Submitted

RTU-5



MechOne, Inc.

PROJECT NAME: DCSD Highlands Ranch HS
JOB NO: 21023
DESCRIPTION: RTU-6
 Relocated Duct/RTU
Print: _____

DATE: August 19, 2021
C.O.R.: _____
ASI: _____
RFI: #05

LABOR

16.00	HRS.	SM SHOP	\$80.00 =	\$1,280.00
2.40	HRS.	SHOP FOREMAN	\$85.00 =	\$204.00
1.60	HRS.	SHOP GENERAL FOREMAN	\$88.00 =	\$140.80
20.00	HRS.	SHOP BURDEN	\$19.00 =	\$380.00
40.00	HRS.	FIELD JOURNEYMEN	\$80.00 =	\$3,200.00
6.00	HRS.	FIELD FOREMAN	\$85.00 =	\$510.00
4.00	HRS.	FIELD GENERAL FOREMAN	\$88.00 =	\$352.00
0.00	HRS.	CAD OPERATOR	\$88.00 =	\$0.00
0.50	HRS.	PROJECT MANAGER	\$97.00 =	\$48.50
0.00	HRS.	PROJECT COORDINATOR	\$61.00 =	\$0.00
0.00	DAYS	SUBSISTENCE @ \$90.00 Day	\$135.00 =	\$0.00
TOTAL LABOR COST				\$6,115.30

MATERIAL

BUYOUTS -	\$0.00
BUYOUTS -	\$0.00
COST OF MATERIAL	\$1,545.00
TAXES @ 8.65%	\$133.64
MATERIAL HANDLING @ 5%	\$77.25
SMALL TOOLS @ 4% of Labor	\$244.61
CONSUMABLES @ 4% of Labor	\$244.61
TOTAL MATERIAL COST	\$2,245.12

EQUIPMENT

0.00	HRS	2 TON STAKEBED	\$18.18 =	\$0.00
0.00	HRS	1/2 TON PICKUP	\$10.78 =	\$0.00
0.00	HRS	DUCT HOIST	\$4.35 =	\$0.00
0.00	HRS	SCISSOR LIFT	\$17.98 =	\$0.00
0.00	HRS	JLG LIFT	\$29.00 =	\$0.00
0.00	HRS	FORK LIFT	\$45.98 =	\$0.00
0.00	HRS	WELDING MACHINE	\$12.67 =	\$0.00
0.00	HRS	CYBERMATION	\$350.00 =	\$0.00
0.00	HRS	COIL LINE	\$550.00 =	\$0.00
0.00	HRS	WHISPER LOCK	\$35.00 =	\$0.00
0.00	HRS	SPIRAL MACHINE	\$155.00 =	\$0.00
TOTAL EQUIPMENT COST				\$0.00

SUBCONTRACTORS

TOTAL SUBCONTRACTOR COST	\$0.00
---------------------------------	---------------

SUBTOTAL COST	\$8,360.42
WARRANTY @ 3%	\$0.00
OVERHEAD - 10%	\$836.04
PROFIT - 5%	\$459.82
OVERHEAD ON SUBS - 5%	\$0.00
SUBTOTAL	\$9,656.28
BOND @1.5%	\$0.00

TIME EXTENSION REQUIRED:

TOTAL COST **\$9,656**

This Quote is void unless written notification to proceed is received by MechOne within (30) days from date Submitted

RTU-6

78/20
S/A

15 1/2"

9'-9" BOB
58/20

20/20
S6-7

TDI

36"

* Additional
Duct / Fittings *

S6-2

20/20

9'-10" BOB

30"

S6-3
FOT

11'-7"

O.S.

11 1/2"

20/20

R/A
60/24
HD

10" φ

S6-4

5 1/2" jt.

55"

20/20

6" / 6"

R6-3
60/20

TD6 S6-5

10"

20/20

6" / 2"

cut back
2" off wall

5 1/2" jt.

S6-6

DME
20 / 20

60/20

10'-3 1/2" BOB

R6-4

2" to wall

5 1/2" jt.

60/20

20"

R6-5
FOT

6"

60/20

MechOne, Inc.

PROJECT NAME: DCSD Highlands Ranch HS
JOB NO: 21023
DESCRIPTION: RTU-9
 Undersized Existing Duct/Roof
 Print: Opening

DATE: August 19, 2021
C.O.R. :
ASI:
RFI: #05

LABOR

9.00	HRS.	SM SHOP	\$80.00 =	\$720.00
1.35	HRS.	SHOP FOREMAN	\$85.00 =	\$114.75
0.90	HRS.	SHOP GENERAL FOREMAN	\$88.00 =	\$79.20
11.25	HRS.	SHOP BURDEN	\$19.00 =	\$213.75
20.00	HRS.	FIELD JOURNEYMEN	\$80.00 =	\$1,600.00
3.00	HRS.	FIELD FOREMAN	\$85.00 =	\$255.00
2.00	HRS.	FIELD GENERAL FOREMAN	\$88.00 =	\$176.00
0.00	HRS.	CAD OPERATOR	\$88.00 =	\$0.00
0.50	HRS.	PROJECT MANAGER	\$97.00 =	\$48.50
0.00	HRS.	PROJECT COORDINATOR	\$61.00 =	\$0.00
0.00	DAYS	SUBSISTENCE @ \$90.00 Day	\$135.00 =	\$0.00
TOTAL LABOR COST				\$3,207.20

MATERIAL

BUYOUTS -	\$0.00
BUYOUTS -	\$0.00
COST OF MATERIAL	\$495.00
TAXES @ 8.65%	\$42.82
MATERIAL HANDLING @ 5%	\$24.75
SMALL TOOLS @ 4% of Labor	\$128.29
CONSUMABLES @ 4% of Labor	\$128.29
TOTAL MATERIAL COST	\$819.14

EQUIPMENT

0.00	HRS	2 TON STAKEBED	\$18.18 =	\$0.00
0.00	HRS	1/2 TON PICKUP	\$10.78 =	\$0.00
0.00	HRS	DUCT HOIST	\$4.35 =	\$0.00
0.00	HRS	SCISSOR LIFT	\$17.98 =	\$0.00
0.00	HRS	JLG LIFT	\$29.00 =	\$0.00
0.00	HRS	FORK LIFT	\$45.98 =	\$0.00
0.00	HRS	WELDING MACHINE	\$12.67 =	\$0.00
0.00	HRS	CYBERMATION	\$350.00 =	\$0.00
0.00	HRS	COIL LINE	\$550.00 =	\$0.00
0.00	HRS	WHISPER LOCK	\$35.00 =	\$0.00
0.00	HRS	SPIRAL MACHINE	\$155.00 =	\$0.00
TOTAL EQUIPMENT COST				\$0.00

SUBCONTRACTORS

TOTAL SUBCONTRACTOR COST	\$0.00
---------------------------------	---------------

SUBTOTAL COST	\$4,026.34
WARRANTY @ 3%	\$0.00
OVERHEAD - 10%	\$402.63
PROFIT - 5%	\$221.45
OVERHEAD ON SUBS - 5%	\$0.00
SUBTOTAL	\$4,650.43
BOND @1.5%	\$0.00

TIME EXTENSION REQUIRED:		TOTAL COST	\$4,650
---------------------------------	--	-------------------	----------------

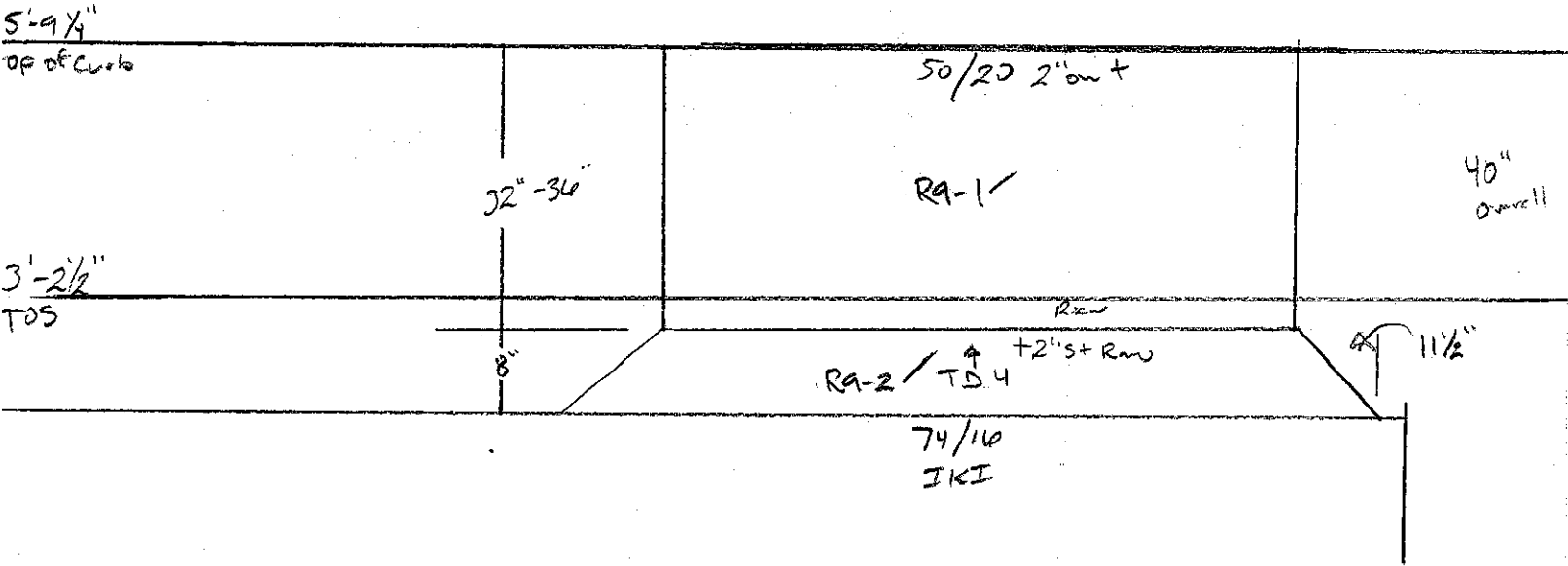
This Quote is void unless written notification to proceed is received by MechOne within (30) days from date Submitted

RTU-9

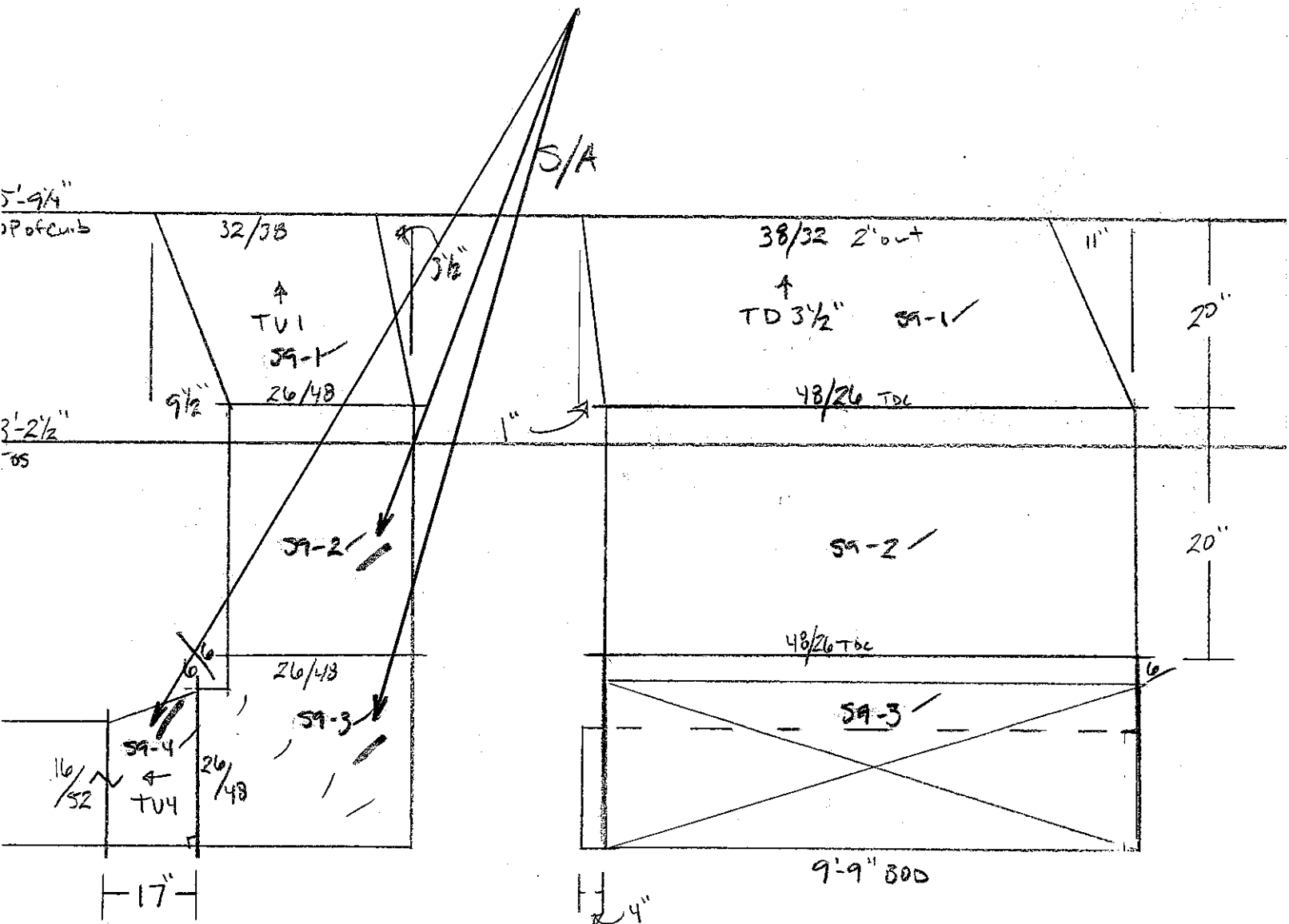
52 1/2 x 16 Duct opening
72

R/A

22 1/2 / 51 1/4
20/50 R/A Drop



* Additional Fittings *



MechOne, Inc.

PROJECT NAME: DCSD Highlands Ranch HS
JOB NO: 21023
DESCRIPTION: RTU-10
 Undersized Existing Duct/Roof
 Print: _____ Opening

DATE: August 19, 2021
C.O.R. : _____
ASI: _____
RFI: #05

LABOR			
7.00	HRS.	SM SHOP	\$80.00 = \$560.00
1.05	HRS:	SHOP FOREMAN	\$85.00 = \$89.25
0.70	HRS.	SHOP GENERAL FOREMAN	\$88.00 = \$61.60
8.75	HRS.	SHOP BURDEN	\$19.00 = \$166.25
16.00	HRS.	FIELD JOURNEYMEN	\$80.00 = \$1,280.00
2.40	HRS.	FIELD FOREMAN	\$85.00 = \$204.00
1.60	HRS.	FIELD GENERAL FOREMAN	\$88.00 = \$140.80
0.00	HRS.	CAD OPERATOR	\$88.00 = \$0.00
0.50	HRS.	PROJECT MANAGER	\$97.00 = \$48.50
0.00	HRS.	PROJECT COORDINATOR	\$61.00 = \$0.00
0.00	DAYS	SUBSISTENCE @ \$90.00 Day	\$135.00 = \$0.00
TOTAL LABOR COST			\$2,550.40

MATERIAL	
BUYOUTS -	\$0.00
BUYOUTS -	\$0.00
COST OF MATERIAL	\$278.00
TAXES @ 8.65%	\$24.05
MATERIAL HANDLING @ 5%	\$13.90
SMALL TOOLS @ 4% of Labor	\$102.02
CONSUMABLES @ 4% of Labor	\$102.02
TOTAL MATERIAL COST	
\$519.98	

EQUIPMENT			
0.00	HRS	2 TON STAKEBED	\$18.18 = \$0.00
0.00	HRS	1/2 TON PICKUP	\$10.78 = \$0.00
0.00	HRS	DUCT HOIST	\$4.35 = \$0.00
0.00	HRS	SCISSOR LIFT	\$17.98 = \$0.00
0.00	HRS	JLG LIFT	\$29.00 = \$0.00
0.00	HRS	FORK LIFT	\$45.98 = \$0.00
0.00	HRS	WELDING MACHINE	\$12.67 = \$0.00
0.00	HRS	CYBERMATION	\$350.00 = \$0.00
0.00	HRS	COIL LINE	\$550.00 = \$0.00
0.00	HRS	WHISPER LOCK	\$35.00 = \$0.00
0.00	HRS	SPIRAL MACHINE	\$155.00 = \$0.00
TOTAL EQUIPMENT COST			\$0.00

SUBCONTRACTORS	
TOTAL SUBCONTRACTOR COST	
\$0.00	

SUBTOTAL COST	\$3,070.38
WARRANTY @ 3%	\$0.00
OVERHEAD - 10%	\$307.04
PROFIT - 5%	\$168.87
OVERHEAD ON SUBS - 5%	\$0.00
SUBTOTAL	\$3,546.29
BOND @1.5%	\$0.00

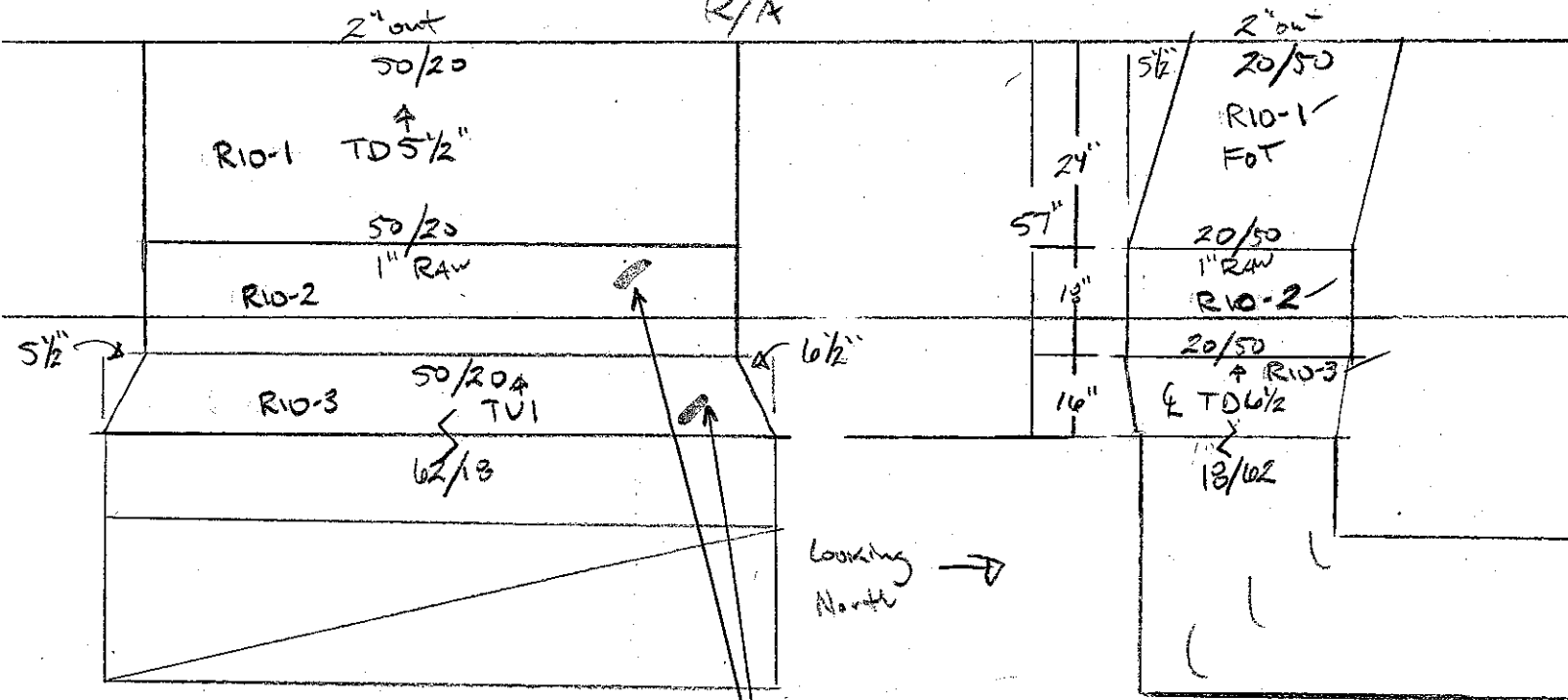
TIME EXTENSION REQUIRED: _____	TOTAL COST	\$3,546
---------------------------------------	-------------------	----------------

This Quote is void unless written notification to proceed is received by MechOne within (30) days from date Submitted

RTU-10

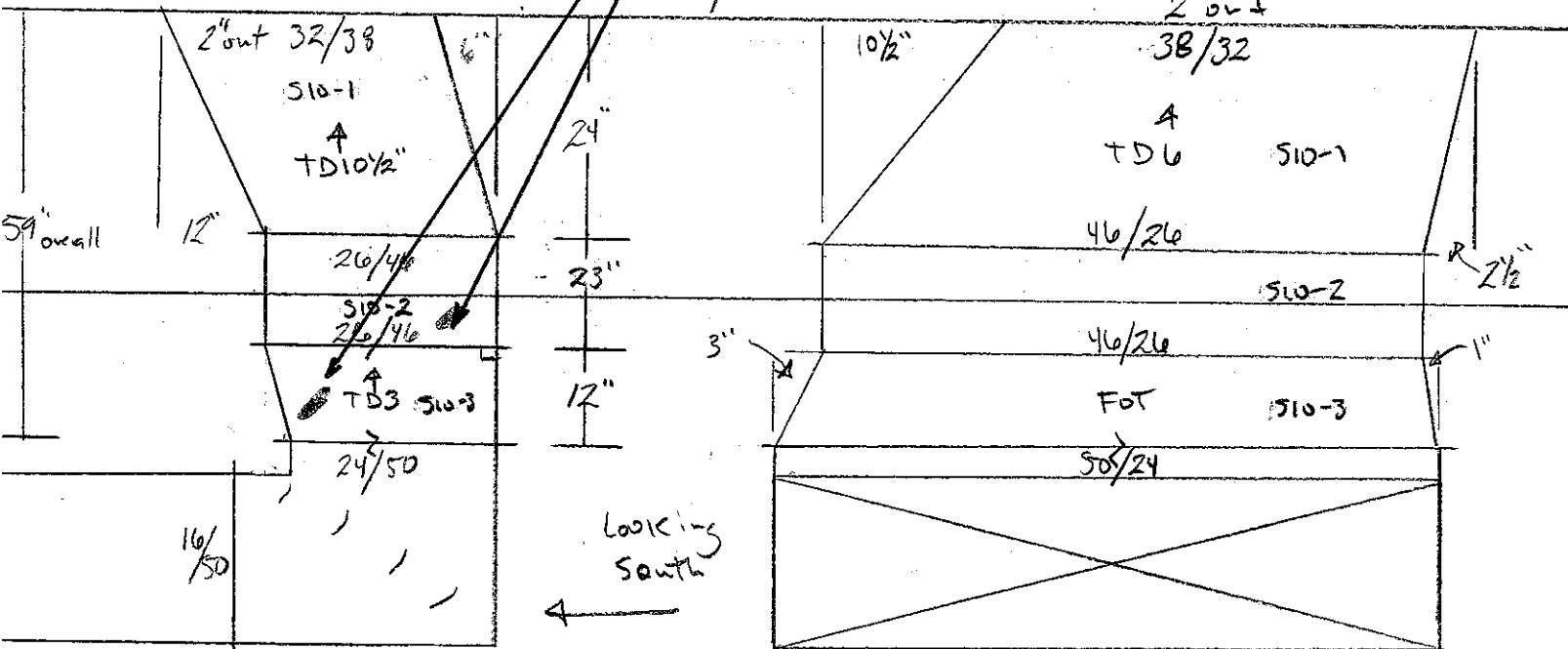
51 1/4" x 22 1/2" Comb Opening
50 x 20 Drop

R/A



* Additional Fittings *

S/A



MechOne, Inc.

PROJECT NAME: DCSD Highlands Ranch HS
JOB NO: 21023
DESCRIPTION: RTU-11
 Undersized Existing Duct/Roof
 Print: Opening

DATE: August 19, 2021
C.O.R. :
ASI:
RFI: #05

LABOR

13.00	HRS.	SM SHOP	\$80.00 =	\$1,040.00
1.95	HRS.	SHOP FOREMAN	\$85.00 =	\$165.75
1.30	HRS.	SHOP GENERAL FOREMAN	\$88.00 =	\$114.40
16.25	HRS.	SHOP BURDEN	\$19.00 =	\$308.75
26.00	HRS.	FIELD JOURNEYMEN	\$80.00 =	\$2,080.00
3.90	HRS.	FIELD FOREMAN	\$85.00 =	\$331.50
2.60	HRS.	FIELD GENERAL FOREMAN	\$88.00 =	\$228.80
0.00	HRS.	CAD OPERATOR	\$88.00 =	\$0.00
0.50	HRS.	PROJECT MANAGER	\$97.00 =	\$48.50
0.00	HRS.	PROJECT COORDINATOR	\$61.00 =	\$0.00
0.00	DAYS	SUBSISTENCE @ \$90.00 Day	\$135.00 =	\$0.00
TOTAL LABOR COST				\$4,317.70

MATERIAL

BUYOUTS -	\$0.00
BUYOUTS -	\$0.00
COST OF MATERIAL	\$873.00
TAXES @ 8.65%	\$75.51
MATERIAL HANDLING @ 5%	\$43.65
SMALL TOOLS @ 4% of Labor	\$172.71
CONSUMABLES @ 4% of Labor	\$172.71
TOTAL MATERIAL COST	\$1,337.58

EQUIPMENT

0.00	HRS	2 TON STAKEBED	\$18.18 =	\$0.00
0.00	HRS	1/2 TON PICKUP	\$10.78 =	\$0.00
0.00	HRS	DUCT HOIST	\$4.35 =	\$0.00
0.00	HRS	SCISSOR LIFT	\$17.98 =	\$0.00
0.00	HRS	JLG LIFT	\$29.00 =	\$0.00
0.00	HRS	FORK LIFT	\$45.98 =	\$0.00
0.00	HRS	WELDING MACHINE	\$12.67 =	\$0.00
0.00	HRS	CYBERMATION	\$350.00 =	\$0.00
0.00	HRS	COIL LINE	\$550.00 =	\$0.00
0.00	HRS	WHISPER LOCK	\$35.00 =	\$0.00
0.00	HRS	SPIRAL MACHINE	\$155.00 =	\$0.00
TOTAL EQUIPMENT COST				\$0.00

SUBCONTRACTORS

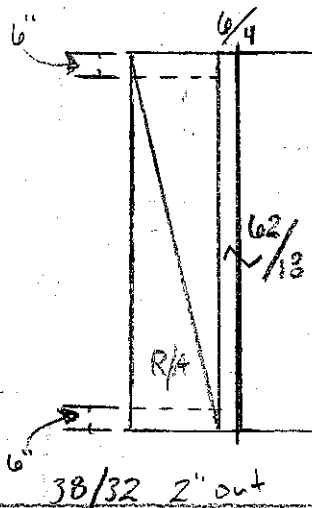
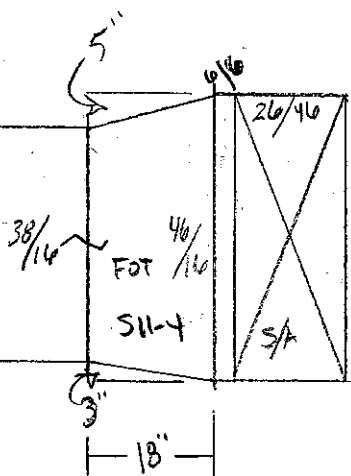
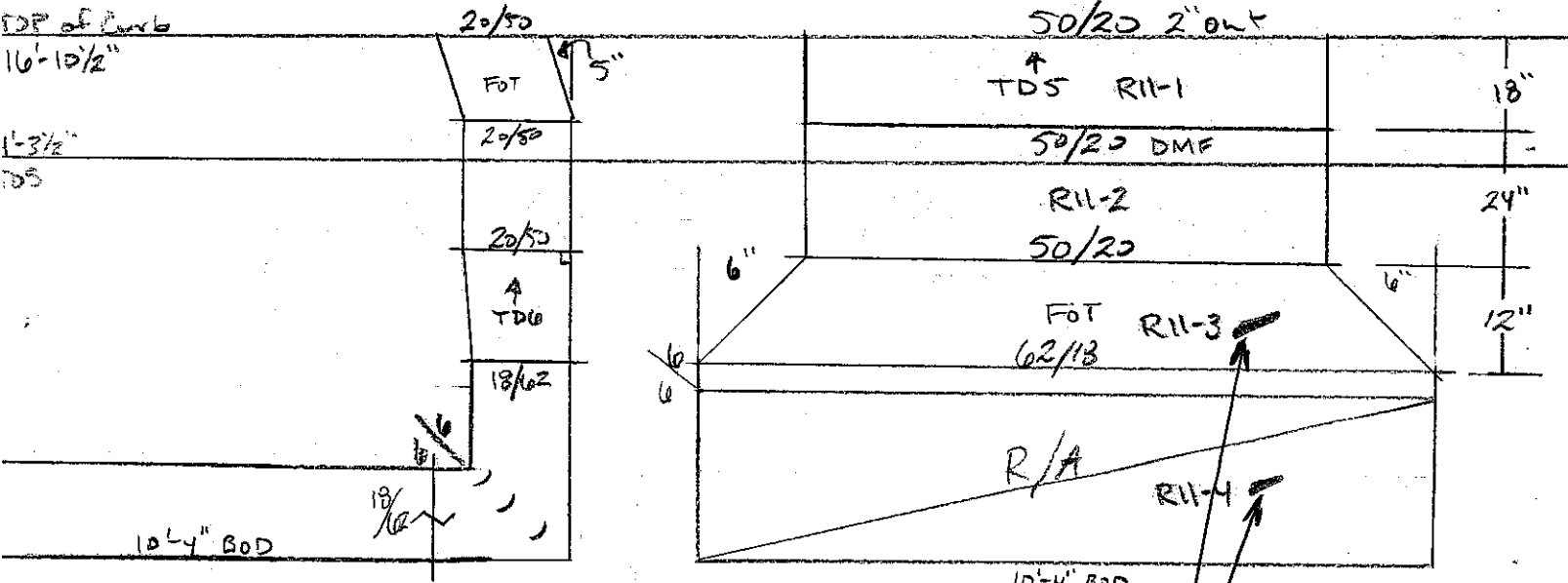
TOTAL SUBCONTRACTOR COST **\$0.00**

SUBTOTAL COST	\$5,655.28
WARRANTY @ 3%	\$0.00
OVERHEAD - 10%	\$565.53
PROFIT - 5%	\$311.04
OVERHEAD ON SUBS - 5%	\$0.00
SUBTOTAL	\$6,531.85
BOND @1.5%	\$0.00

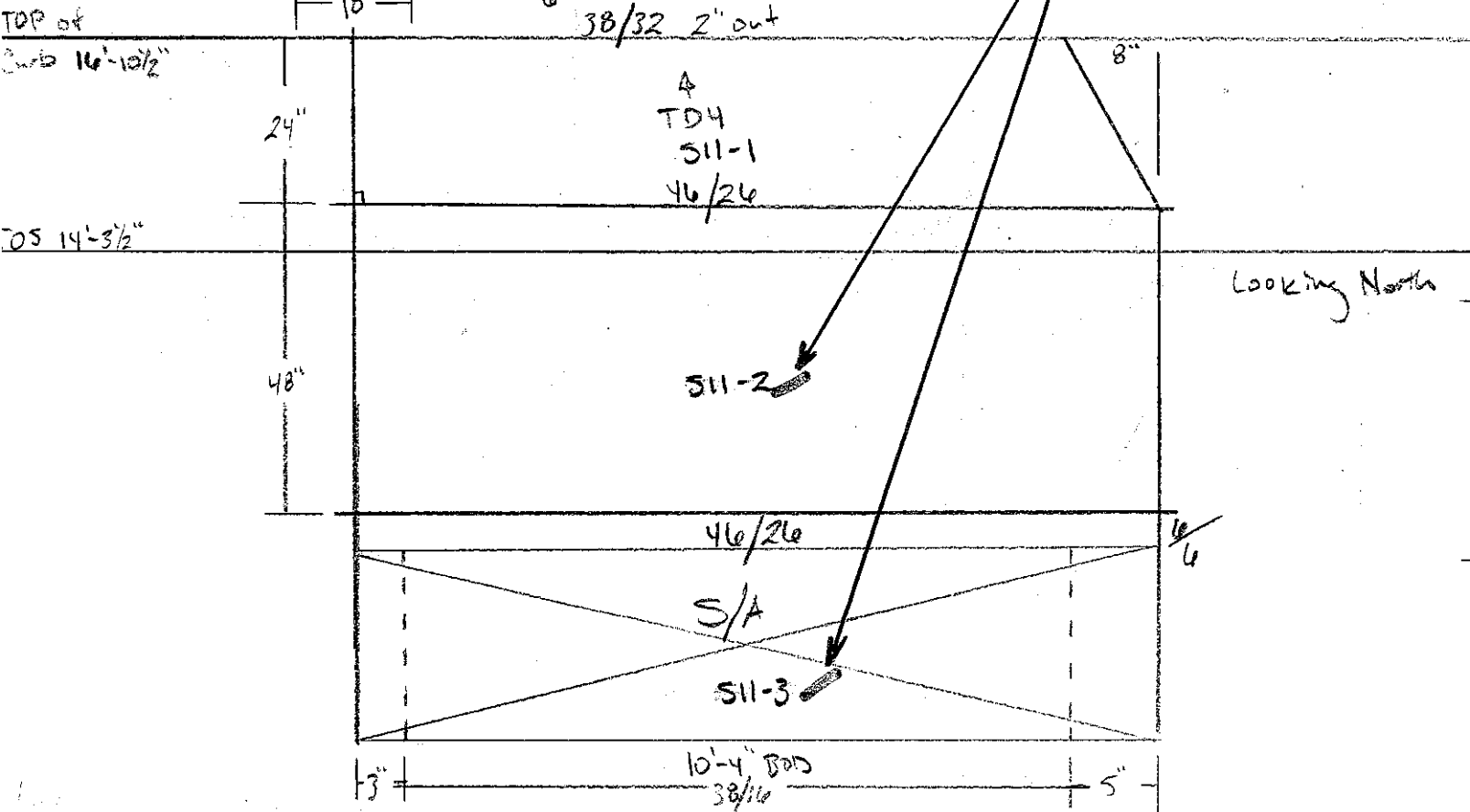
TIME EXTENSION REQUIRED:

TOTAL COST **\$6,532**

This Quote is void unless written notification to proceed is received by MechOne within (30) days from date Submitted



* Additional Fittings *





Request For Information #13

Golden Triangle Construction, Inc.
700 Weaver Park Road
Longmont, Colorado 80501
Phone: (303) 772-4051
Fax: (303) 776-6525

Project: 1732 - Highlands Ranch HS
9375 Cresthill Lane
Highlands Ranch, Colorado 80130

TO:	Monica Mong (Wold Architects and Engineers) Ed Mitchell (Wold Architects and Engineers)	FROM:	Mahoney Bajwa (Golden Triangle Construction, Inc.)
DATE INITIATED:	6/2/2021	REQUESTED RETURN DATE:	06/09/2021
TITLE:	RTU Walk 6/1/21	SCHEDULE IMPACT:	TBD
COST IMPACT:	TBD	SPEC SECTION:	
DRAWING NUMBER:			

INITIATED BY: Steve Van Wormer (**Braconier Plumbing & Heating**)

Description of Request and Proposed Solution

Per the job walk with Braconier, GTC, D&E Steel and Cator Ruma on 6/1/21, please review the notes below and the attached marked-up drawing and provide clarification/direction as needed on each of the following:

RTU-6

- Verify that existing return air duct does not tie-in or feed other areas, and can be removed
- Verify that there will be no sound issues if elbows cannot be installed below units on return drops
- Verify that supply air branch lines can be re-attached with existing conditions
- Verify that return air path/ transfer air will not be an issue

RTU-5

- Verify that unit can be shifted to land between bar joists rather than split 3 bar joists
- Verify that there will be no sound issues if elbows cannot be installed below units on return drops
- Verify that return air path/ transfer air will not be an issue
- Confirm that existing 2" supply and return piping is to be reused in lieu of 2-1/2" piping as shown on drawings.

RTU-1

- Verify that supply drop can be shrunk from 62x110 to roughly 40x110 depending on what can fit between bar joists without airflow issues
- Verify that there will be no sound issues if elbows cannot be installed below units on return drops
- Verify that offsets/transitions inside the curb will not create airflow problems
- Verify that return air path/ transfer air will not be an issue

RTU-4

- Verify that return air path/ transfer air will not be an issue
- Verify that there will be no sound issues if elbows cannot be installed below units on return drops

RTU-2

- Verify actual location of supply drop will not create issues
- Verify that there will be no sound issues if elbows cannot be installed below units on return drops
- Verify that return air path/ transfer air will not be an issue

RTU-3

- Verify that shifting the unit in order to reuse return air drop will not create issues
- Verify that there will be no sound issues if elbows cannot be installed below units on return drops
- Verify that return air path/ transfer air will not be an issue

RTU-7

- Confirm that existing 2" supply and return piping is to be reused in lieu of 2-1/2" piping as shown on drawings.

Additionally, please review and verify if there will be any structural steel modifications necessary as a result of any of the above items.

Attachments:

[RFI-13 RTU Walk 6-1-21 Attachment.pdf](#)

Awaiting an Official Response

All Replies:



Request For Information #13

RTU-6:

- The return duct is ducted through the wall, will need to maintain return air path.
- The velocity at the return air opening is 920 FPM and the return opening will be above the supply duct both of which will reduce the air noise.
- The existing supply duct can be re-installed.
- The transfer path will need to be verified from both sides of the corridor.

RTU-5:

- The existing location differs from what was shown on the plans, the unit will only shift in the N-S direction.
- The existing unit does not have return elbows as shown on the original drawings, so we do not see the new condition being any different.
- The existing return/transfer system is not changing so as long as all existing paths are left as is there should not an issue.
- The existing 2" HWS/R can be re-used.

RTU-1:

- The supply drop can be adjusted to fit between the existing structure.
- The existing unit does not have return elbows as shown on the original drawings, so we do not see the new condition being any different.
- The transitions within the curb will be acceptable as the velocity is lower.
- The existing return/transfer system is not changing so as long as all existing paths are left as is there should not an issue.

RTU-4:

- The existing return/transfer system is not changing so as long as all existing paths are left as is there should not an issue.
- The existing unit does not have return elbows as shown on the original drawings, so we do not see the new condition being any different.

RTU-2:

- Supply drop location is being re-used and works at it current location.
- The existing unit does not have return elbows as shown on the original drawings, so we do not see the new condition being any different.
- The existing return/transfer system is not changing so as long as all existing paths are left as is there should not an issue.

RTU-3:

- Shifting the unit will allow for the supply duct to be cleaned up with better fittings.
- The existing unit does not have return elbows as shown on the original drawings, so we do not see the new condition being any different.
- The existing return/transfer system is not changing so as long as all existing paths are left as is there should not an issue.

RTU-7:

- The existing 2" HWS/R can be re-used.

Michael Johnson
CRA 06-11-21

BY

DATE

COPIES TO



Request For Information #15

Golden Triangle Construction, Inc.
700 Weaver Park Road
Longmont, Colorado 80501
Phone: (303) 772-4051
Fax: (303) 776-6525

Project: 1732 - Highlands Ranch HS
9375 Cresthill Lane
Highlands Ranch, Colorado 80130

TO:	Monica Mong (Wold Architects and Engineers) Ed Mitchell (Wold Architects and Engineers)	FROM:	Mahoney Bajwa (Golden Triangle Construction, Inc.)
DATE INITIATED:	6/8/2021	REQUESTED RETURN DATE:	06/15/2021
TITLE:	Additional RTU Clarifications		
COST IMPACT:	TBD	SCHEDULE IMPACT:	TBD
DRAWING NUMBER:		SPEC SECTION:	

INITIATED BY: Steve Van Wormer (**Braconier Plumbing & Heating**)

Description of Request and Proposed Solution

Additional discrepancies were found between the drawings and existing conditions of the following RTU's and associated duct drop locations:

- RTU-14
-verify that existing unit/drop locations are good. Actual drop locations deviate from plans.
- RTU-13
-verify that existing unit/drop locations are good. Actual drop locations deviate from plans.
- RTU-12
-verify that existing unit/drop locations are good. Actual drop locations deviate from plans.
- RTU-10
-verify that existing unit/drop locations are good. Actual drop locations deviate from plans.
- RTU-8
-verify that the new return air drop location is good. The new drop location deviates from plans.

Please review the list above and attached marked-up drawing with specific locations in question and advise.

Attachments:
[RFI-15 Attachment.pdf](#)

Awaiting an Official Response

CRA takes no exception to the field measured location of the openings and sizes.

Michael Johnson
CRA 06-10-21

BY _____

DATE _____

COPIES TO _____

RFI #7: Additional RTU Clarifications

Status	Open		
To	Mahoney Bajwa (GOLDEN TRIANGLE CONSTRUCTION)	From	Steven Van Wormer (Braconier) Colorado
Date Initiated	Jun 8, 2021	Due Date	Jun 22, 2021
Location		Project Stage	Course of Construction
Cost Impact	TBD	Schedule Impact	TBD
Spec Section		Cost Code	
Drawing Number		Reference	
Linked Drawings			
Received From	Jesse Montoya (Mech-One Inc)		
Copies To			

Activity

Question

Question from Steven Van Wormer Braconier on Tuesday, Jun 8, 2021 at 11:42 AM EDT

Additional discrepancies were found between the drawings and existing conditions of the following RTU and associated duct drop locations. Please review the list below along with the attached marked up drawing and advise.

- RTU-14
-verify that existing unit/drop locations are good. Actual drop locations deviate from plans.
- RTU-13
-verify that existing unit/drop locations are good. Actual drop locations deviate from plans.
- RTU-12
-verify that existing unit/drop locations are good. Actual drop locations deviate from plans.
- RTU-10
-verify that existing unit/drop locations are good. Actual drop locations deviate from plans.
- RTU-8
-verify that new return air drop location is good. New drop location deviates from plans

Attachments

[Highlands Ranch HS Reno MARK-UP.pdf](#)

Awaiting an Official Response