W. A. THOMAS CO., INC

2356 Pacheco Blvd
Martinez, CA 94553

Telephone (925) 228-9600
FAX (925) 228-6932

Biological Sciences B2100 Building Annex
Chabot College
25555 Hesperian Blvd., Hayward CA 94545

WATCO Job No. 618

CHANGE ESTIMATE No. 17060.3

1/24/2022
Revised

Item	Hrs	Material / Equip.	Labor	Subcontractor	Total
Change Description:					
Provide additional electrical work per Bulletin #6.1 dated 11/8/18 and CFD# 24 dated 11/13/18					
Breakdown of Estimated Subcontractor Costs:					
				$0	$0
BME Cost proposal dated 1/15/2019				$4,283	$4,283
Qualifications: Price for itemized work only listed on subcontractor quotation. Overtime excluded. Any extra work not noted or unforseen conditions will be priced separately.				$0	$0
				$0	$0
W. A. Thomas Co., Inc. Work					
					$0
		$0	$0		$0
		$0	$0		$0
	0	$0	$0		$0
	0	$0	$0		$0
		$0	$0		$0
Subtotal		$0	$0	$4,283	$4,283
Tax 10%					$0
15% on WATCO work					$0
5% on Subcontractor Costs ($3740)					$187
1% Bond (GC / MEP) - no GC bond cost until allowance is exceeded					$45
Total Lump Sum					**$4,515**

Additional Time: Schedule was impacted and Delay Notices #4 & 5 issued. 3 days

This quotation is based solely on the direct cost elements involved for the change noted and does not include any evaluation of the impact or the subject change upon the contract time or any costs related thereto. This quotation is only for the work described herein.

SLAM

BME ELECTRICAL CONSTRUCTION, INC.

1281 30TH STREET
OAKLAND, CA 94608
OFFICE: 510.208.1967 FAX: 510.208.1966
CA C-10 # 887811

1/15/19

TO: **Jim Smith**
WA Thomas

RE: **Chabot Bulletin 6.1 T&M Summary**

We are pleased to provide an invoice on the above referenced project. Our invoice is based on the following information:

1. Work Requested by Vanir to be Completed on a T&M Basis

AC-1 Rework:

BME Personnel:	Hours:	Rate:	Ext. Cost:
T. Richey	10	$ 123.92	$ 1,239.20
D. Drumheller	10	$ 123.92	$ 1,239.20
		Total:	$ 2,478.40

	Cost:	Tax @ 9.25%	Ext. Cost:
Material:	$ 1,154.80	$ 106.82	$ 1,261.62

Labor:	$ 2,478.40
Material:	$ 1,261.62
Equipment:	$ 0.00
Bond @ 2.25%	$ 84.15
Mark Up @ 12%	$ 458.90
TOTAL:	$ 4,283.07

COST $3740.02

If there are any questions or concerns, please contact us.

Sincerely,

Sasha McGraw - BME Electrical Construction, Inc.

Job ID: 1-15-19
Project: Chabot College Bulletin 6.1 T&M

Summary by Subtotal

Vendor: TRADE/3-COL 15 Jan 2019 10:08:02

Subtotal 1 - GRC

Item #	Size	Description	Q/M	Quantity	U/M	Mat Unit	Mat Result	Quote Unit	Quote Result
20473	4	GRC 90-DEG ELBOW 36"R	M	2	EA	431.8200	863.64	0.0000	0.00
				Subtotal totals:			863.64		0.00

Subtotal 3 - PVC

Item #	Size	Description	Q/M	Quantity	U/M	Mat Unit	Mat Result	Quote Unit	Quote Result
20150	4	PVC SCH 40 30-DEG ELBOW	M	2	EA	37.6602	75.32	0.0000	0.00
				Subtotal totals:			75.32		0.00

Subtotal 8 - PVC FITTINGS

Item #	Size	Description	Q/M	Quantity	U/M	Mat Unit	Mat Result	Quote Unit	Quote Result
30307	4	PVC FEMALE ADAPTER	M	2	EA	8.0196	16.04	0.0000	0.00
				Subtotal totals:			16.04		0.00

Subtotal 99 - MISCELLANEOUS ITEMS

Item #	Size	Description	Q/M	Quantity	U/M	Mat Unit	Mat Result	Quote Unit	Quote Result
1		SAKRETE BAGS	M	20	EA	9.9900	199.80	0.0000	0.00
				Subtotal totals:			199.80		0.00
				Job totals:			1,154.80		0.00

BME Electrical Construction, Inc
1281 30th Street
Oakland, CA 94608
Phone: 510.208.1967
Web:

BME ELECTRICAL CONSTRUCTION, INC.
1281 30th Street
Oakland, CA 94608

(510) 200-1967
CA C-10 # 887011

ELECTRICAL
Work Order / Invoice

3028

TO: LPA Thomas
Chabert

DATE OF ORDER 11/13/18	TEL.
ORDER TAKEN BY	CUSTOMER ORDER NO.
STARTING DATE 11/13/18	☐ DAYWORK ☐ CONTRACT ☐ EXTRA
JOB NAME / NO.	
JOB LOCATION	
INVOICE DATE	JOB TEL.

DESCRIPTION OF WORK

Bulletin 6.1 New Electric Room Layout

LABOR	HRS.	@	AMOUNT
T. Richey	6		
D. Drubhneller	6		
		TOTAL LABOR	

QTY	MATERIAL	@	AMOUNT
2	4" PVC 22½° bends		
20	Bags Sakrete Concrete		
2	4" Rigid 90°		
2	4" PVC FA's		
		TOTAL MATERIALS	

Note: This is time verification and materials by IOR for work on 11/13/18. VMWR to approve cost.

11/14/18

WORK ORDERED BY

I hereby acknowledge the satisfactory completion of the above described work.

SIGNATURE DATE

TOTAL LABOR	
TOTAL MATERIALS	
TAX	
TOTAL	

Thank You!

BME ELECTRICAL CONSTRUCTION, INC.
1281 30th Street
Oakland, CA 94608

(610) 208-1967
CA C-10 # 887811

ELECTRICAL
Work Order / Invoice

3029

TO: WA Thomas
Chabot

DATE OF ORDER 11/13/18	TEL.
ORDER TAKEN BY	CUSTOMER ORDER NO.
STARTING DATE 11/14/18	☐ DAYWORK ☐ CONTRACT ☐ EXTRA
JOB NAME / NO.	
JOB LOCATION	
INVOICE DATE	JOB TEL.

TERMS:

DESCRIPTION OF WORK

Bulletin 62 New Electric Room Layout

LABOR	HRS.	@	AMOUNT
T. Richey	4		
D Drumheller	4		
		TOTAL LABOR	

QTY	MATERIAL	@	AMOUNT
	Note: This is time and material verification by IOR for work on 11/14/18. VANIR to approve cost.		
	Roy Moreno, IOR 11/14/18 Date		
		TOTAL MATERIALS	

WORK ORDERED BY

I hereby acknowledge the satisfactory completion of the above described work.

SIGNATURE DATE

TOTAL LABOR	
TOTAL MATERIALS	
TAX	
TOTAL	

Thank You!

Chabot-Las Positas Community College District

Construction Field Directive

To: W.A. Thomas Co., Inc. **Field Dir. 24**
Project: Biological Sciences B2100 Building Annex **Issue: 11/13/2018**

Description of Work:

- Revise layout of electric room 2166 per Bulletin 06.1 and 06.1 (REV). Relocate installed conduit to new layout of equipment.

Reason for Directive:

- The original location of the electrical equipment did not provide the code required clearances in front of the equipment.

Direction:

☐ Proceed with work on T&M Basis; submit T&M back-up daily.
Cost not to exceed

☐ Proceed with work, provide Credit amount for this change in contract documents.

☒ Proceed with work, submit signed T&M back-up daily, unless PCO is provided prior and approved.

☐ Proceed with work, work considered in scope of contract.

☐ Proceed with the work in accordance with the proposal PCO # dated Month xx, 2016 in the amount of $
The work will be added to the contract by change order.

By Eric Bayne 11/13/18
VanirCM, Inc. Construction Manager Date

By [signature] 11/13/18
Chabot College Campus Project Planner/Mgr. Date

Bulletin 006.1

HED

Date • November 8, 2018 [REVISED 11/12/18]
Project No. • 2015-30004-000
Client Project No. •

Project • Chabot College- B2100 Biological Sciences Building

THIS IS A REQUEST FOR SUBMISSION OF QUOTATION AND NOT AN ORDER FOR THE WORK

- This Bulletin is issued after Contract Award to obtain a quotation for proposed change(s) in the Work.
- Do not proceed with the work described herein until receipt of written authorization from the Owner.
- Unless otherwise stated in the Agreement or Contract, within fourteen (14) calendar days of date of Bulletin issue, submit a completed and signed Bulletin and three (3) copies of fully itemized quotation for Owner's review showing the cost and time adjustments necessary to execute the proposed change(s).
- When submitting complete itemized quotation, break down quotation according to "ITEMS" listed. Each "ITEM" amount shall be complete and shall include all costs for labor, materials, taxes, supervision, overhead, profit, etc.
- Unless otherwise indicated, the work described herein shall comply with, and be in conformance with the Contract Documents. Include incidental work required to properly complete this work, whether stated herein or not.
- Upon approval by the Owner, payments will be made in accordance with methods described in the Agreement or Contract Documents.

DOCUMENTS ISSUED

Drawings	• Sheet E-103 Electrical- Enlarged Plans (10/18/18)
Supplemental Drawings	• n/a
Project Manual Sections	• Refer to 012600 Contract Modifications Procedures (Para. 1.02-B4). Work shall comply with all requirements set forth in the Specifications including, but not limited to, 260500 Common Work Results for Electrical, Paragraph 1.3 Submittals, especially Paragraphs E and H; 262413 Switchboards, Paragraph 1.4 Submittals; and, 262416 Panelboards, Paragraph 1.4 Submittals.
Miscellaneous Items	• Existing Photos (one page, two photos) showing existing conditions dated 11/7/18.

ITEM DESCRIPTIONS

ITEM 1 – Electric Room 2166 Add / Deduct $_____

- Sheet E-103 Electrical- Enlarged Plans: Coordination Drawing, developed during joint meeting with W.A.Thomas, BME Electric, Vanir, HED, Arup, and IOR on 11/7/18 showing layout to accommodate Contractor-submitted electrical equipment. Contractor to coordinate and provide means of anchoring all equipment, including the coordination of penetrating anchors with rebar layout and any conduit run in and/or under concrete slab-on-grade (SOG).

- Photos, dated 11/7/18, of the existing below SOG conditions in the vicinity of Room 2166 (bounded by gridlines A, B, 1 and 2).

Bulletin Quotation Grand Total: Add / Deduct $_____

HED

Date • November 8, 2018
Project No. • 2015-30004-000
Client Project No. •

BULLETIN AGREEMENT

- This Bulletin quotation is not valid until signed by the Contractor.
- Signature of the Contractor indicates agreement herewith, including any adjustment in the Contract Sum or the Contract Time.
- This quotation is guaranteed for a period of not less than 60 days from the date of signing below, and if authorized to proceed within that period, the Contractor agrees to complete the Work covered by this Bulletin at the amounts shown therein.

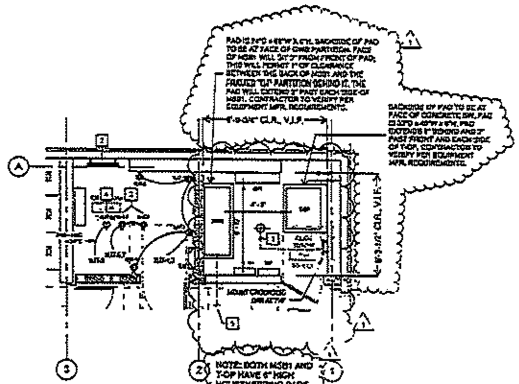
Agreed To:

_____
Name of Contractor

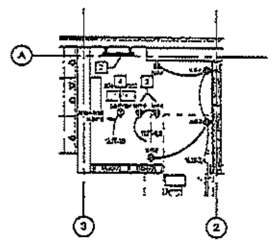
_____
Signature of person authorized to sign contracts for Contractor

_____
Title of person signing

Signed this _____ day of _____, 20__



LEVEL ONE - ENLARGED IDF AND ELEC ROOMS



LEVEL TWO - ENLARGED IDF ROOM

KEYED NOTES

CHABOT COLLEGE

CHABOT COLLEGE

Biological Sciences Building Annex

25555 Hesperian Drive
Hayward, CA 94545

ARUP

9/15/17 DSA Approval

Revisions
No Date Description

HED

Title
ELECTRICAL ENLARGED PLAN

Sheet No. E-103

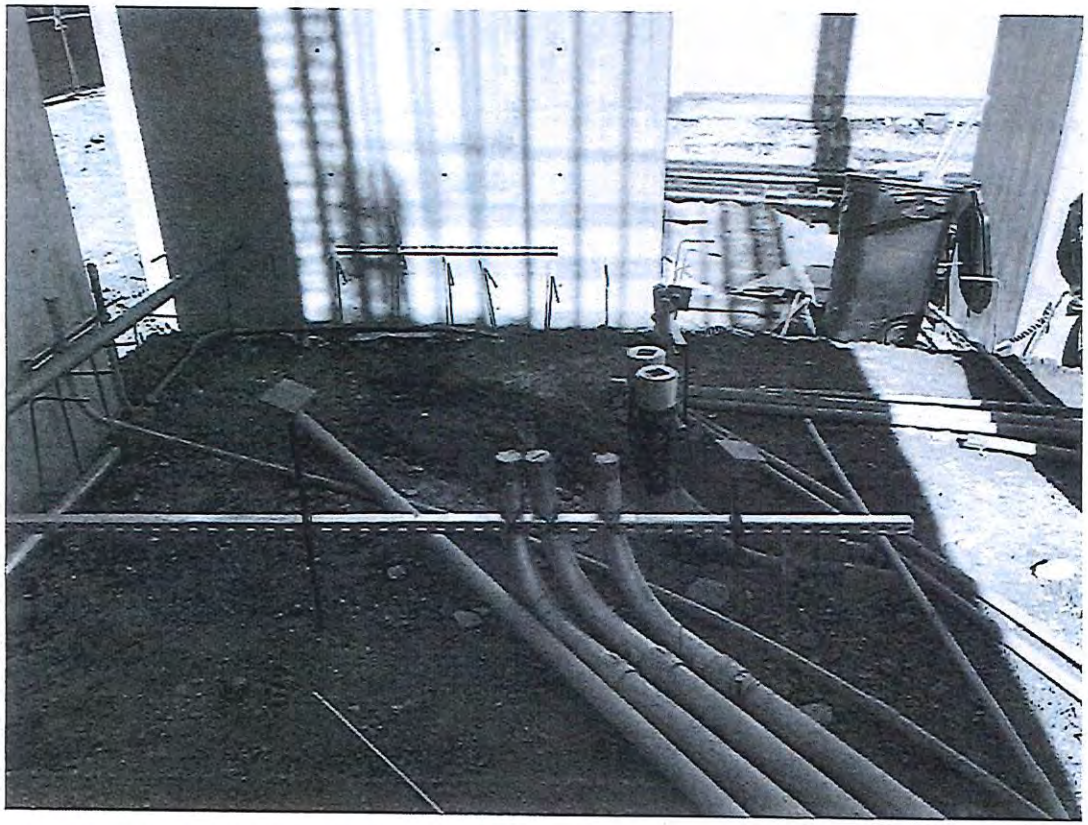


PHOTO OF EXISTING CONDITIONS- ROOM 2166
VIEW FROM SOUTH LOOKING NORTH

PHOTO OF EXISTING CONDITIONS- ROOM 2166
VIEW FROM EAST LOOKING WEST

BULLETIN 006.1
11/08/18

W. A. THOMAS CO., INC

2356 Pacheco Blvd
Martinez, CA 94553

Telephone (925) 228-9600
FAX (925) 228-6932

Biological Sciences B2100 Building Annex
Chabot College
25555 Hesperian Blvd., Hayward CA 94545

WATCO Job No. 518

CHANGE ESTIMATE No. 17201.3 2/2/2022

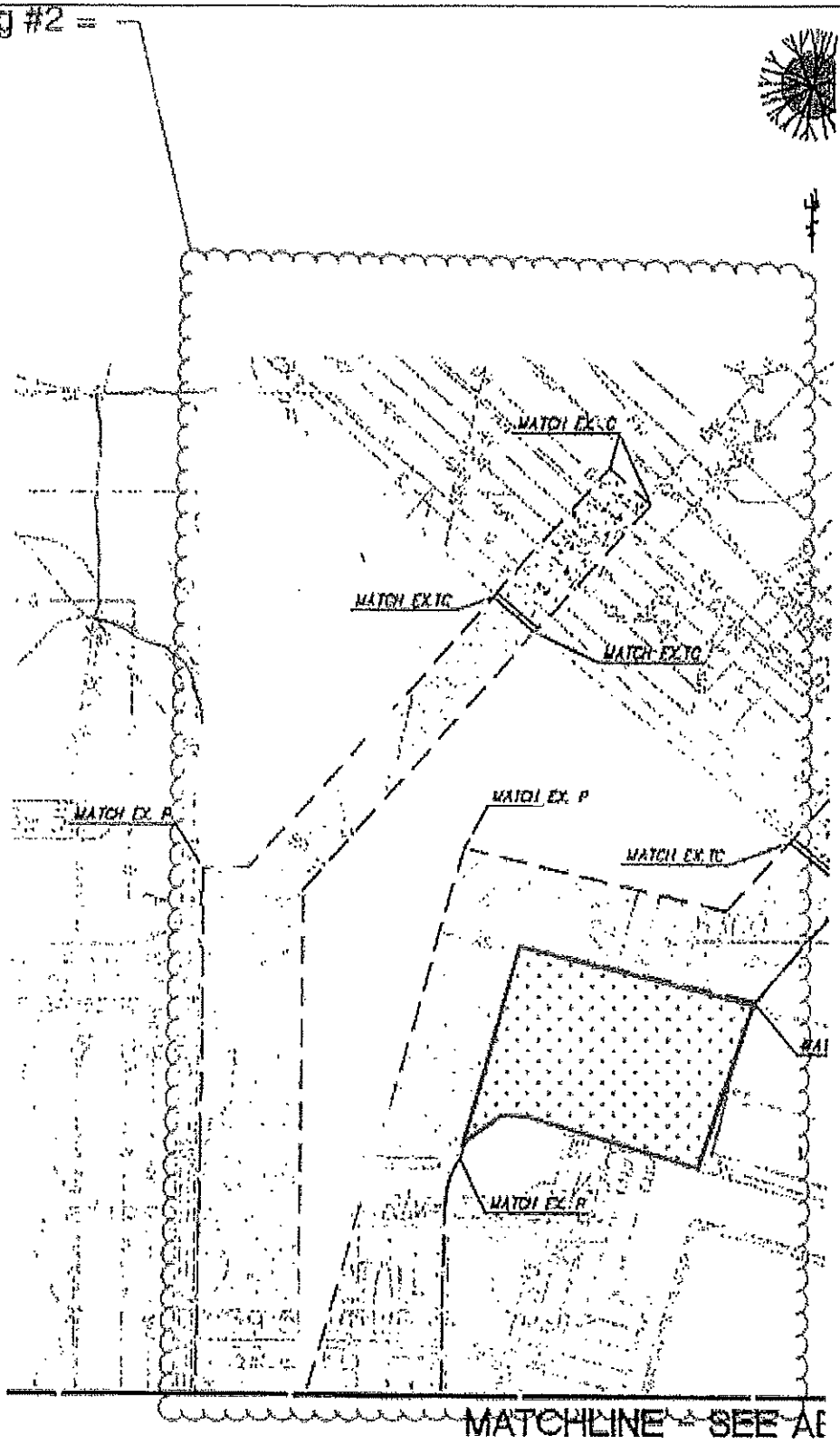
Revised

Item	Hrs	Material / Equip.	Labor	Subcontractor	Total
Change Description:					
Provide additional Trenching and AC paving work at revised site hydronic trench routing. Reference Bulletin #8 and CFD #36					
Breakdown of Estimated Subcontractor Costs:					
				$0	$0
Michael J. Rodola Summary letter dated 1/26/2022 and reference letter dated 5/21/21 - Costs negotiated per Vanir email dated 1/31/22				$8,392	$8,392
					$0
				$0	$0
Qualifications: Price for itemized work only listed on subcontractor quotation. Overtime excluded. Any extra work not noted or unforseen conditions will be priced separately.				$0	$0
				$0	$0
W. A. Thomas Co., Inc. Work					
		$0	$0		$0
		$0	$0		$0
		$0	$0		$0
Subtotal		$0	$0	$8,392	$8,392
Tax 10%					$0
15% on WATCO work					$0
5% on Subcontractor Costs ($7493)					$375
1% Bond (GC)					$88
Total Lump Sum					**$8,855**

Additional Time: none

Any time associated with this work scope will be addressed In CE17027.3
This quotation is based solely on the direct cost elements involved for the change noted and does not include any evaluation of the impact or the subject change upon the contract time or any costs related thereto. This quotation is only for the work described herein.

of new paving #2 =
1555 sqft



Thank you,

Eric Barger

Chabot-Las Positas Community College District

Construction Field Directive

To: W.A. Thomas Co., Inc. **Field Dir. 36**
Project: Biological Sciences B2100 Building Annex **Issue: 9/16/2019**

Description of Work:

- Saw cut and remove additional AC paving, additional excavation, remove an additional +/- 7' of curb and gutter, and remove existing slurry over pour behind curb as indicated in the attached sketch for the new alignment of the hydronic piping loop.

Reason for Directive:

- This CFD is issued to authorize additional work to establish a new alignment for the new underground hydronic piping. The new alignment is due to underground unforeseen conditions.

Direction:

☐ Proceed with work on T&M Basis; submit T&M back-up daily.
Cost not to exceed $00.00 estimate
Contractor shall notify Construction Manager when costs reach 80% of the Not to exceed amount.

☐ Proceed with work, provide Credit amount for this change in contract documents.

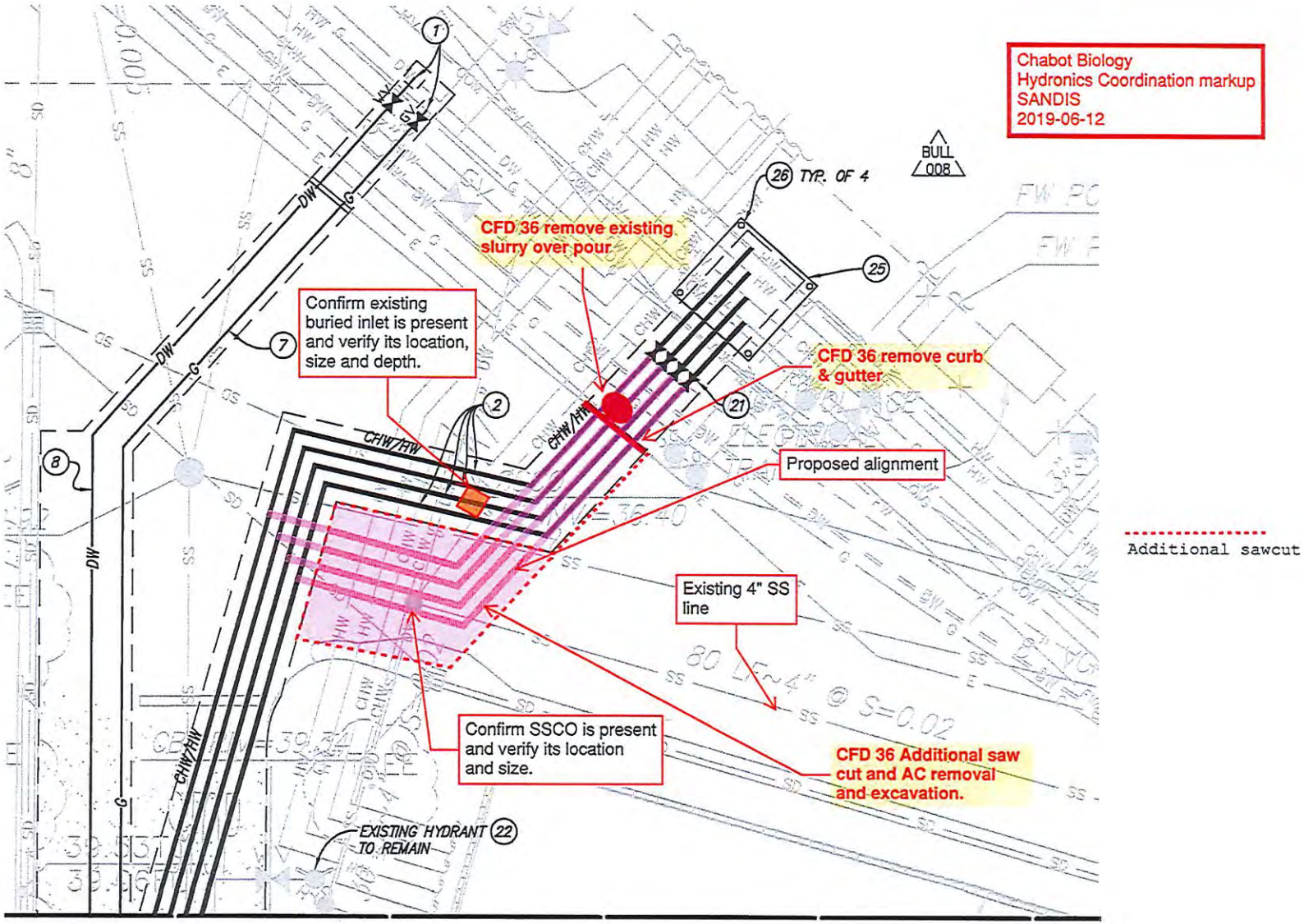
☒ Proceed with work, submit signed T&M back-up Daily, unless PCO is provided prior and approved.

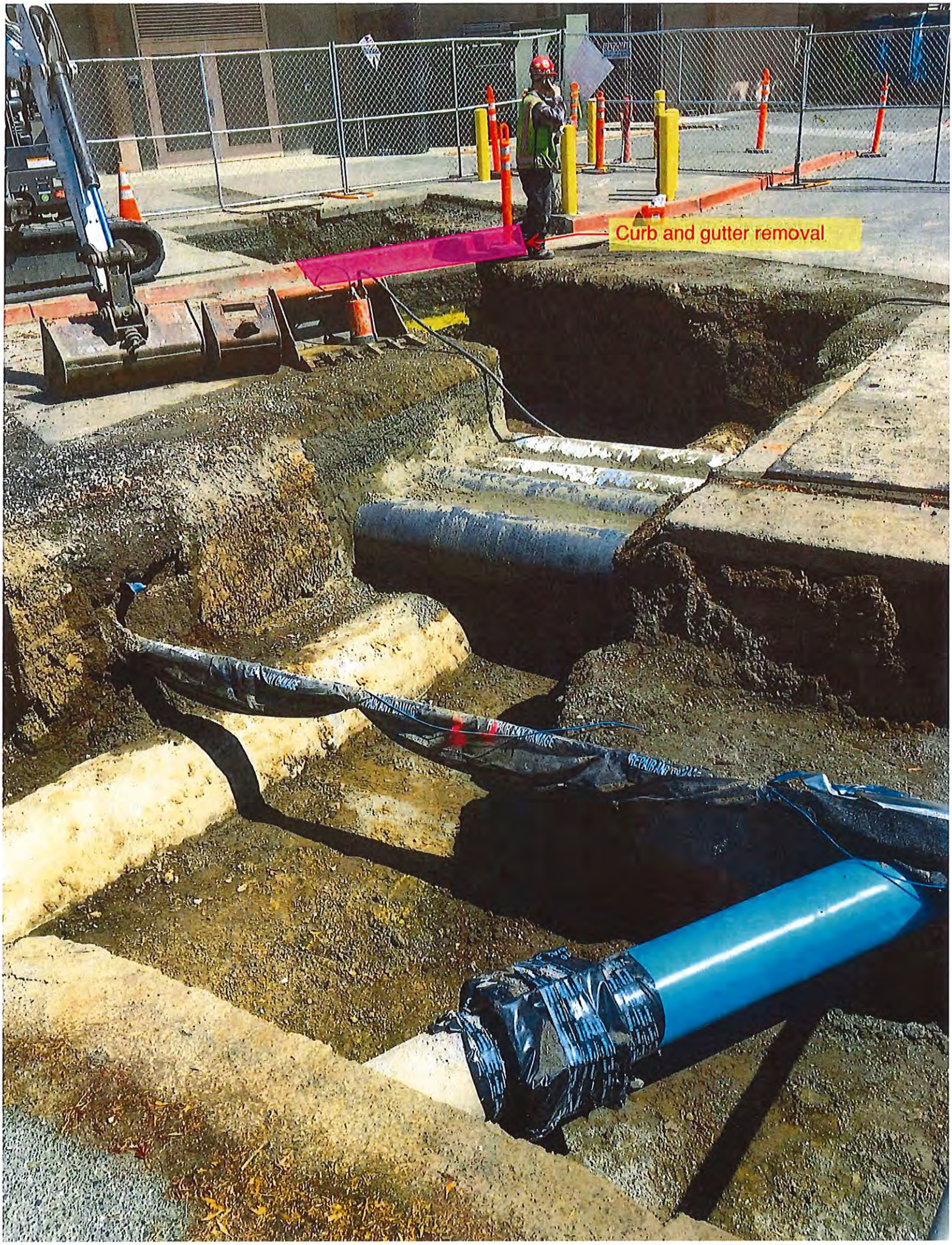
☐ Proceed with work, work considered in scope of contract.

☐ Proceed with the work in accordance with the proposal PCO # dated Month xx, 2016 in the amount of $
The work will be added to the contract by change order.

By _____ 9/16/19
VanirCM, Inc. Construction Manager Date

By _____ 09/16/2019
Chabot College Campus Project Planner/Mgr. Date


Chabot Biology
Hydronics Coordination markup
SANDIS
2019-06-12
BULL 008
26 TYP. OF 4
25
CFD 36 remove existing slurry over pour
Confirm existing buried inlet is present and verify its location, size and depth.
7
CFD 36 remove curb & gutter
21
2
Proposed alignment
8
Existing 4" SS line
Confirm SSCO is present and verify its location and size.
CFD 36 Additional saw cut and AC removal and excavation.
EXISTING HYDRANT TO REMAIN
22
Additional sawcut


Curb and gutter removal


Area of additional AC
removal and trenching

Bulletin 008

HED

Date • October 5, 2018
Project No. • 2015-30004-000
Client Project No. •

Project • Chabot College- B2100 Biological Sciences Building

THIS IS A REQUEST FOR SUBMISSION OF QUOTATION AND NOT AN ORDER FOR THE WORK

- This Bulletin is issued after Contract Award to obtain a quotation for proposed change(s) in the Work.
- Do not proceed with the work described herein until receipt of written authorization from the Owner.
- Unless otherwise stated in the Agreement or Contract, within fourteen (14) calendar days of date of Bulletin issue, submit a completed and signed Bulletin and three (3) copies of fully itemized quotation for Owner's review showing the cost and time adjustments necessary to execute the proposed change(s).
- When submitting complete itemized quotation, break down quotation according to "ITEMS" listed. Each "ITEM" amount shall be complete and shall include all costs for labor, materials, taxes, supervision, overhead, profit, etc.
- Unless otherwise indicated, the work described herein shall comply with, and be in conformance with the Contract Documents. Include incidental work required to properly complete this work, whether stated herein or not.
- Upon approval by the Owner, payments will be made in accordance with methods described in the Agreement or Contract Documents.

DOCUMENTS ISSUED

Drawings	• Sheets C-300, C-601 M-20U, and M-601(all dated 10/4/18)
Supplemental Drawings	• n/a
Project Manual Sections	• Section 232116 (Revised) See also Section 012600 Contract Modifications Procedures, Paragraph 1.02-B4
Miscellaneous Items	• n/a

ITEM DESCRIPTIONS

ITEM 1 – Hydronic Piping POC (Point of Connection) Add / Deduct $_____

Section 232116 (Revised) is attached; note revisions to Paragraphs 2.1 F and G.

Provide new valve boxes at locations noted on Sheet M-20U and C-300; see Box Detail 7/M-601.

Provide new concrete pad and bollards over underground hydronic piping POC (where tie-in of new CHW/HHW piping to existing CHW/HHW hydronic piping occurs). Refer to Sheets C-300 and C-601, attached.

Coordinate final number and location of (N) bollards in field with Architect and Civil Engineer prior to procurement.

Note: Bulletin 008 supersedes Bulletin 005.

Bulletin Quotation Grand Total: Add / Deduct $_____

HED

Date • October 5, 2018
Project No. • 2015-30004-000
Client Project No. •

BULLETIN AGREEMENT

- This Bulletin quotation is not valid until signed by the Contractor.
- Signature of the Contractor indicates agreement herewith, including any adjustment in the Contract Sum or the Contract Time.
- This quotation is guaranteed for a period of not less than 60 days from the date of signing below, and if authorized to proceed within that period, the Contractor agrees to complete the Work covered by this Bulletin at the amounts shown therein.

Agreed To:

_____
Name of Contractor

_____
Signature of person authorized to sign contracts for Contractor

_____
Title of person signing

Signed this _____ day of _____, 20__

SECTION 232116

UNDERGROUND HYDRONIC PIPING

PART 1 - GENERAL

1.1 WORK INCLUDED

A. Provide a complete pre-fabricated pre-insulated conduit for heating hot water and chilled water. Provide all necessary fittings, anchors, expansion loops and conduit accessories

1.2 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.3 SUMMARY

A. Section Includes:

1. Cased piping system.

1.4 PERFORMANCE REQUIREMENTS

A. Provide components and installation capable of producing hydronic piping systems with the following minimum working-pressure ratings:

1. Hot-Water Piping: 150 psig at 200 deg F
2. Chilled-Water Piping: 150 psig at 200 deg F

1.5 ACTION SUBMITTALS

A. Product Data: For the following:

1. Cased piping.

B. LEED Submittals:

1. Product Data for Credit EQ 4.1: For adhesives, documentation including printed statement of VOC content and chemical components.

C. Shop Drawings: For underground hydronic piping. Signed and sealed by a professional engineer.

1. Calculate requirements for expansion compensation for underground piping.

2. Show expansion compensators, offsets, and loops with appropriate materials to allow piping movement in the required locations. Show anchors and guides that restrain piping movement with calculated loads, and show concrete thrust block dimensions.
3. Show pipe sizes, locations, and elevations. Show piping in trench, conduit, and cased pipe with details showing clearances between piping, and show insulation thickness.

1.6 INFORMATIONAL SUBMITTALS

A. Profile Drawings: Show system piping in elevation. Draw profiles at horizontal scale of not less than 1 inch equals 50 feet (1:500) and at vertical scale of not less than 1 inch equals 5 feet (1:50). Indicate manholes and piping. Show types, sizes, materials, and elevations of other utilities crossing hydronic piping.

B. Qualification Data: For qualified Installer.

C. Welding certificates.

D. Material Test Reports: For cased piping.

E. Source quality-control reports.

F. Field quality-control reports.

1.7 QUALITY ASSURANCE

A. Welding Qualifications: Qualify procedures and personnel according to ASME Boiler and Pressure Vessel Code: Section IX.

1. Comply with provisions in ASME B31.9, "Building Services Piping."
2. Certify that each welder has passed AWS qualification tests for welding processes involved and that certification is current.

B. ASME Compliance: Comply with ASME B31.9, "Building Services Piping," for materials, products, and installation.

PART 2 - PRODUCTS

2.1 CASED PIPING SYSTEM

A. Description: Factory-fabricated piping with carrier pipe, insulation, and casing.

1. Manufacturers: Perma-Pipe Xtru-Therm (Basis of design)
2. Or approved equal

B. Carrier Pipe: Standard-weight, steel pipe and fittings

C. Carrier Pipe Insulation:

1. Polyurethane Foam Pipe Insulation: Rigid, cellular, high-pressure injected between carrier pipe and jacket.
   a. Comply with ASTM C 591; thermal conductivity (k-value) shall not exceed 0.14 Btu x in./h x sq. ft. x deg F at 75 deg F after 180 days of aging.

D. Casing: HDPE

E. Casing accessories include the following:

1. Joint Kit: Half-shell, pourable or split insulation, casing sleeve, and shrink-wrap sleeve.
2. Expansion Blanket: Elastomeric foam, formed to fit over piping.
3. End Seals: Shrink wrap the casing material to seal watertight around casing and carrier pipe.

F. Isolation butterfly valves (direct buried):

1. Valves shall be suitable for bi-directional flow and drop tight shutoff to 150 psig (zero leakage).
2. Seats shall be adjustable in-line without the need of special tools. All valves shall be hydrostatic and leak tested in accordance with AWWA.
3. b. Isolating, butterfly valve for buried service, flanged body, AWWA C504 Class 150B, ASTM A126, Class B – Cast Iron. Seat EPDM, Disc – Alum. Bronze. All surfaces to be coated with polyamide cured epoxy according to SSPC-SP-10 to a minimum of 6 mils in compliance with AWWA C550.
4. Manufacturer: Mueller Lineseal III.

G. Isolation valve box:

1. Valve boxes shall be concrete utility type valve boxes. Valve box shall be a minimum of 12" deep but sized as needed to enclose isolation valve at installed depth of piping. Box shall be a high density reinforced concrete box. Lid shall be heavy-duty weight lid marked "WATER" to match piping system. Preferred manufacturer is Christy B-09 utility boxes. Valve boxes to be coated with coal tar for buried service application.

H. Source Quality Control: Factory test the carrier pipe to 150 percent of the operating pressure of system. Furnish test certificates.

PART 3 - EXECUTION

3.1 EARTHWORK

A. See Section 312000 "Earth Moving" for excavating, trenching, and backfilling.

3.2 PIPING APPLICATION

A. Hot-Water Heating Piping:

1. Cased piping with polyurethane carrier-pipe insulation.
   a. Piping Insulation Thickness: 3 inches

B. Chilled-Water Piping:

1. Cased piping with polyurethane carrier-pipe insulation.
   a. Piping Insulation Thickness: 2 inches

3.3 PIPING INSTALLATION

A. Drawing plans, schematics, and diagrams indicate general location and arrangement of piping systems. Indicate piping locations and arrangements if such were used to size pipe and calculate friction loss, expansion, pump sizing, and other design considerations. Install piping as indicated unless deviations to layout are approved on Coordination Drawings.

B. Remove standing water in the bottom of trench.

C. Do not backfill piping trench until field quality-control testing has been completed and results approved.

D. Install piping at uniform grade of 0.2 percent. Install drains, consisting of a tee fitting, NPS 3/4 ball valve, and short NPS 3/4 threaded nipple with cap, at low points and elsewhere as required for system drainage. Install manual air vents at high points.

E. Install components with pressure rating equal to or greater than system operating pressure.

F. Install piping free of sags and bends.

G. Install fittings for changes in direction and branch connections.

H. See Section 230517 "Sleeves and Sleeve Seals for HVAC Piping" for sleeves and mechanical sleeve seals through exterior building walls.

I. Secure anchors with concrete thrust blocks. Concrete is specified in Section 033000 "Cast-in-Place Concrete."

3.4 JOINT CONSTRUCTION

A. See Section 330500 "Common Work Results for Utilities" for basic piping joint construction.

B. Ream ends of pipes and tubes and remove burrs. Bevel plain ends of steel pipe.

C. Remove scale, slag, dirt, and debris from inside and outside of pipe and fittings before assembly.

D. Soldered Joints: Apply ASTM B 813, water-flushable flux, unless otherwise indicated, to tube end. Construct joints according to ASTM B 828 or CDA's "Copper Tube Handbook," using lead-free solder alloy complying with ASTM B 32.

E. Brazed Joints: Construct joints according to AWS's "Brazing Handbook," Ch. 35, "Pipe and Tubing," using copper-phosphorus brazing filler metal complying with AWS A5.8/A5.8M.

F. Threaded Joints: Thread pipe with tapered pipe threads according to ASME B1.20.1. Cut threads full and clean using sharp dies. Ream threaded pipe ends to remove burrs and restore full ID. Join pipe fittings and valves as follows:

1. Apply appropriate tape or thread compound to external pipe threads unless dry seal threading is specified.
2. Damaged Threads: Do not use pipe or pipe fittings with threads that are corroded or damaged. Do not use pipe sections that have cracked or open welds.

G. Welded Joints: Construct joints according to AWS D10.12M/D10.12, using qualified processes and welding operators according to "Quality Assurance" Article.

H. Flanged Joints: Select appropriate gasket material, size, type, and thickness for service application. Install gasket concentrically positioned. Use suitable lubricants on bolt threads.

3.5 IDENTIFICATION

A. Install continuous plastic underground warning tapes during back filling of trenches for underground hydronic piping. Locate tapes 6 to 8 inches (150 to 200 mm) below finished grade, directly over piping. See Section 312000 "Earth Moving" for warning-tape materials and devices and their installation.

3.6 FIELD QUALITY CONTROL

A. Testing Agency: testing agency requirements are outlined in Division 1 specifications. Testing agencies are selected by the owner.

B. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections.

C. Perform tests and inspections.

1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.

D. Tests and Inspections:

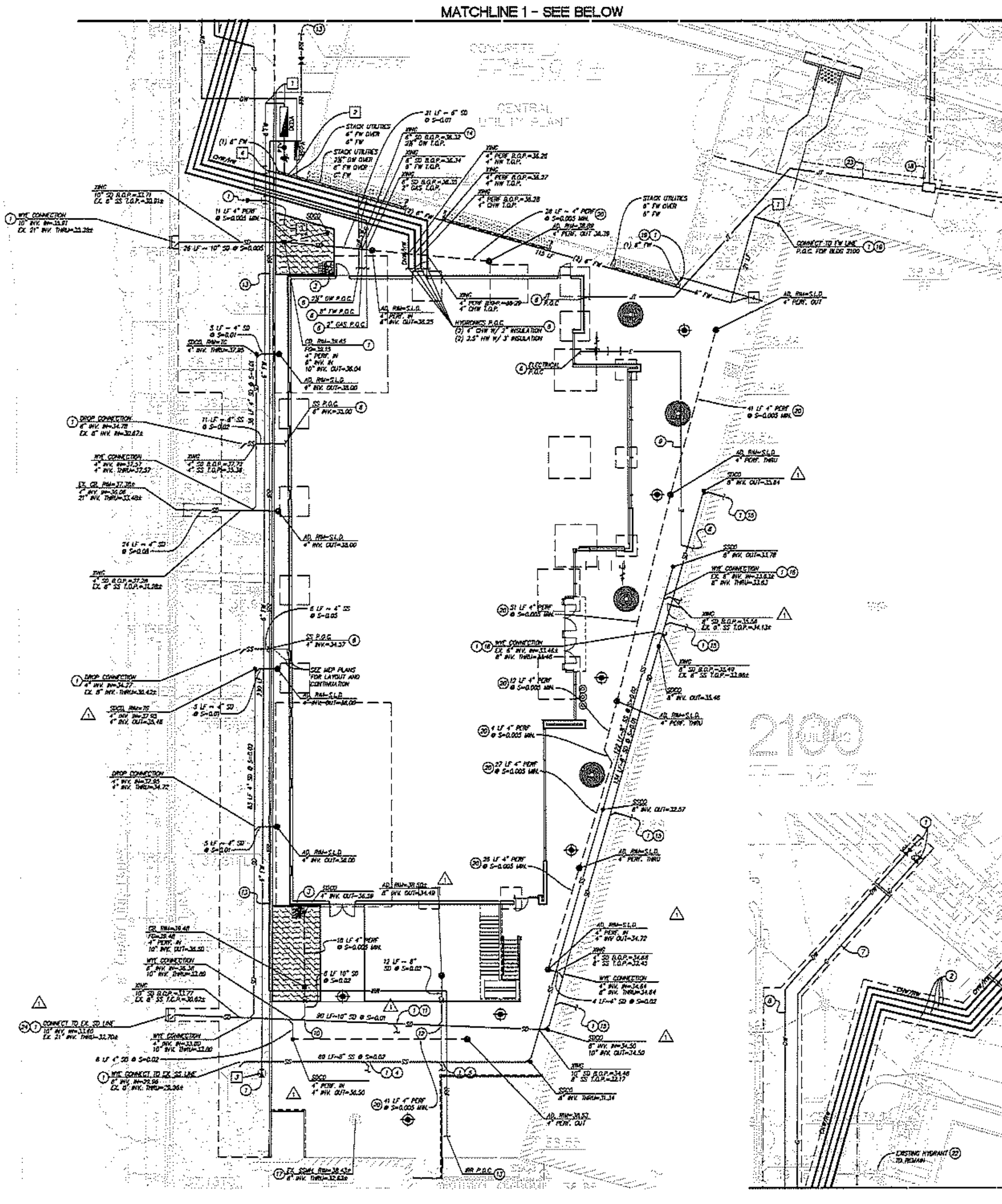
1. Prepare hydronic piping for testing according to ASME B31.9 and as follows:
   a. Leave joints, including welds, uninsulated and exposed for examination during test.

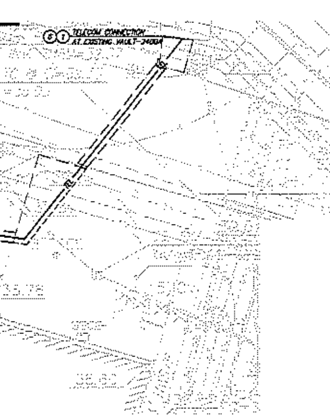
b. Fill system with water. Where there is risk of freezing, air or a safe, compatible liquid may be used.
c. Use vents installed at high points to release trapped air while filling system.

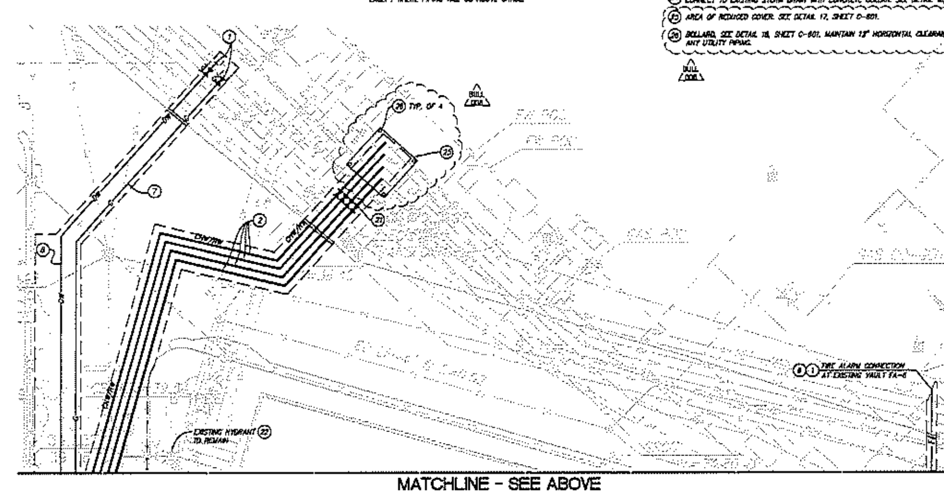
2. Test hydronic piping as follows:
   a. Subject hydronic piping to hydrostatic test pressure that is not less than 1.5 times the design pressure.
   b. After hydrostatic test pressure has been applied for 10 minutes, examine joints for leakage. Remake leaking joints using new materials and repeat hydrostatic test until no leaks exist.

E. Prepare test and inspection reports.

END OF SECTION 232116







LEGEND

SAWCUT LINE

FLOW-THROUGH PLANTER. SEE LANDSCAPE PLANS.

AREA DRAIN (AD), SEE LANDSCAPE PLANS FOR AREA DRAIN DETAIL. SEE CIVIL PLANS FOR RIM ELEVATION AND INVERT ELEVATION.

LIGHT BOLLARD. SEE LANDSCAPE PLANS.

TREE WELL. SEE LANDSCAPE PLANS.

BIKE RACK. SEE LANDSCAPE PLANS.

FIRE DEPARTMENT CONNECTION (3/C-600)

DCDA — DOUBLE DETECTOR CHECK ASSEMBLY (4/C-600)

PIV — POST INDICATOR VALVE ASSEMBLY (6/C-600)

RPPA — REDUCED PRESSURE PRINCIPLE ASSEMBLY (7/C-600)

THRUST BLOCK (8A/8B / C-600)

NOTES

A. ALL FIRE WATER LINES TO BE MECHANICALLY RESTRAINED.

B. DOMESTIC, IRRIGATION LINES TO BE EITHER MECHANICALLY RESTRAINED JOINTS OR THRUST BLOCKS PER CONTRACTOR'S PREFERENCE.

C. WATER LINE SHUT DOWNS TO BE COORDINATED WITH CAMPUS MAINTENANCE STAFF.

D. DOMESTIC WATER PIPE AND FIRE WATER PIPE SHALL HAVE 3 FEET MINIMUM OF CLEARANCE FROM TOP OF PIPE TO TOP OF FINISHED SURFACE PER PROJECT WATER SPECIFICATIONS.

E. GAS PIPE SHALL HAVE 2.5 FEET MINIMUM OF CLEARANCE FROM TOP OF PIPE TO TOP OF FINISHED SURFACE PER PROJECT GAS SPECIFICATIONS.

F. FIRE WATER PIPING SHALL ALL BE C900 PVC PER PROJECT SPECIFICATIONS EXCEPT WHERE PIPING WILL GO ABOVE GRADE.

FIRE WATER SHEET NOTES

1. 90° FITTING
2. 45° ELBOW
3. HOT TAP TEE
4. 8" TEE

UTILITY SHEET NOTES

1. CONNECT TO EXISTING UTILITY LINE OR VAULT. CONTRACTOR TO FIELD VERIFY INVERT ELEVATION PRIOR TO CONSTRUCTION AND REPORT TO ENGINEER ANY DISCREPANCIES.
2. ASSUMED GENERAL ROUTING FOR CHW/HW LINES. SEE MEP PLANS FOR DETAILS.
3. ROOF DRAIN CONNECTION TO FLOW-THROUGH PLANTER. COBBLE SPLASH PAD 2' X 3' MIN, 4" THICK FOR ENERGY DISSIPATION. SET AT OUTLET OF RWL. COORDINATE WITH LANDSCAPE PLANS. SEE MEP PLANS FOR CONTINUATION.
4. CONNECT TO EX. SS LINE FROM BLDG 3900 WYE CONNECT
   EX. 6" INV. IN=31.85±
   8" INV. THRU=30.83
5. CONNECT TO EX. SS LINE FROM BLDG 3900 WYE CONNECT
   EX. 6" INV. IN=30.84±
   8" INV. THRU=30.94
6. UTILITY POINT OF CONNECTION. SEE MEP PLANS FOR CONTINUATION.
7. 2" GAS LINE.
8. 2½" DOMESTIC WATER LINE.
9. ASSUMED GENERAL ROUTING FOR ELECTRICAL SERVICE.
10. WYE CONNECT
    10" INV. IN=36.34
    10" INV. THRU=33.92
11. CONNECT TO EX. SD LINE FROM BLDG 3900 DROP INLET
    EX. 10" INV. IN=35.40±
    10" INV. THRU=34.14
12. WYE CONNECT
    8" INV. IN=34.25
    10" INV. THRU=34.25
13. SEE LANDSCAPE PLANS FOR DETAILS.
14. NO STORM DRAIN PIPE JOINTS WITHIN TEN FEET OF THE WATER MAIN. WATER MAIN SHALL BE CONSTRUCTED OF A CONTINUOUS SECTION OF DUCTILE IRON PIPE WITH HOT BITUMINOUS COATING WITHIN TEN FEET OF THIS POINT.
15. RAINWATER LEADER CONNECTION. SEE PLANS BY MEP/ARCH FOR RAINWATER LEADER DETAIL AND PIPING CONTINUATION.
16. CONNECT TO EXISTING SANITARY SEWER LINE FROM BUILDING 2100.
17. ADJUST EXISTING RIM TO GRADE. (15/C-601)
18. PULLBOX. SEE MEP PLANS FOR LOCATIONS AND DETAIL.
19. FIRE WATER LINE TO BE CONSTRUCTED VERTICALLY ALIGNED WITH A MINIMUM CLEAR DISTANCE OF ONE FOOT (1') AND A MINIMUM COVER OF 3'.
20. CONTRACTOR TO GRADE PERMEABLE PAVER SUBGRADE TO SLOPE TOWARD PERFORATED PIPE SUB-DRAIN. SEE LANDSCAPE PLANS FOR DETAILS.
21. ISOLATION VALVES SHOWN FOR REFERENCE ONLY. SEE MEP PLANS FOR LOCATIONS AND DETAIL.
22. FIRE HYDRANT FLOW TEST RESULTS:
    STATIC PRESSURE = 112 PSI
    FLOW RATE = 1,030 GPM
    RESIDUAL PRESSURE = 83 PSI
23. ASSUMED GENERAL ROUTING FOR JOINT TRENCH CONTAINING UNDERGROUND TELECOM AND FIRE ALARM SERVICE. CONTRACTOR TO REPAIR AND REPLACE DISTURBED PAVING AND EXISTING UTILITIES IN KIND.
24. CONNECT TO EXISTING STORM DRAIN WITH CONCRETE COLLAR. SEE DETAIL 16/C-601
25. AREA OF REDUCED COVER. SEE DETAIL 17, SHEET C-601.
26. BOLLARD, SEE DETAIL 18, SHEET C-601. MAINTAIN 12" HORIZONTAL CLEARANCE TO ANY UTILITY PIPING.

SCALE: 1"=10'

SANDIS

CHABOT COLLEGE

CHABOT COLLEGE
Biological Science
B2100 Building
Annex

25555 Hesperian Drive
Hayward, CA 94545

SANDIS — CIVIL ENGINEERS, SURVEYORS, PLANNERS

09/18/17 DSA Approval

Revisions:

No	Date	Description
1	04/03/18	RFI #10
2	10/04/18	BULLETIN 0

HED
417 MONTGOMERY STREET
SUITE 400
SAN FRANCISCO, CALIFORNIA
94104 USA
(T) 415 981 2345
WWW.HED.DESIGN

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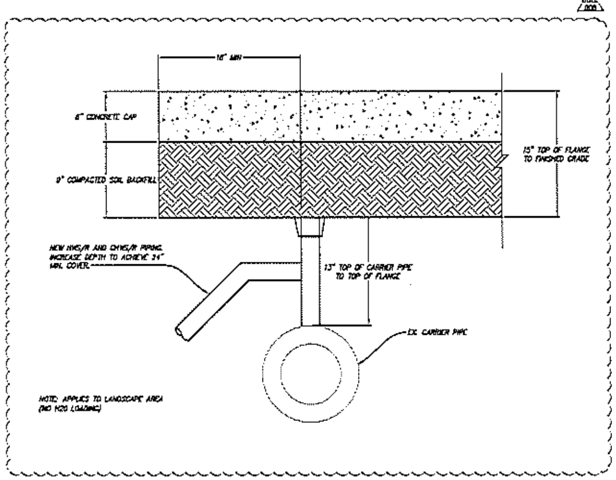
Project	2015-30003.000
Drawn	SEC
Checked	BKC
Approved	MAK

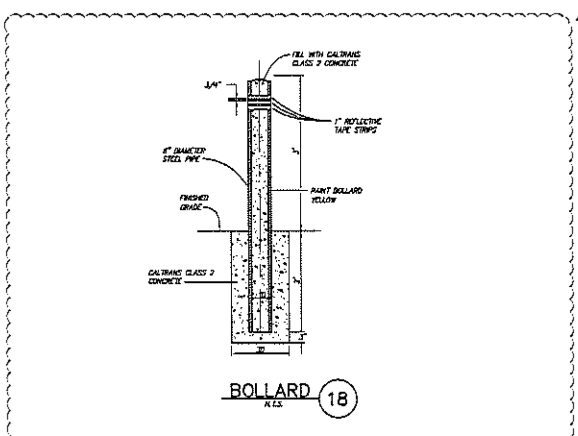
Title UTILITY PLAN

Sheet No. C-300

File: R:\P\615093\PLAN SETS\C-300.dwg Date:Oct 04, 2018



CAP AT HYDRONICS TIE–IN (17)
N.T.S.



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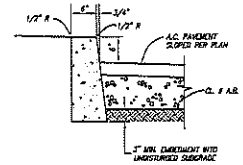

6" VERTICAL CURB (11)
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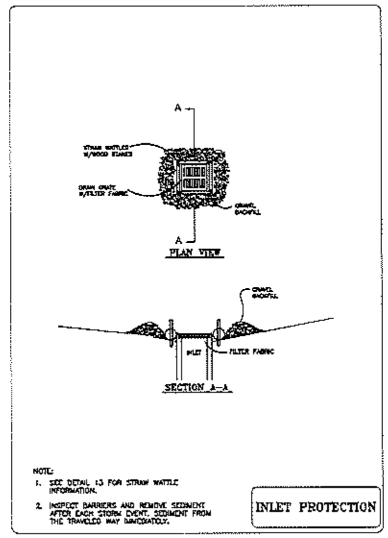

INLET PROTECTION (12)
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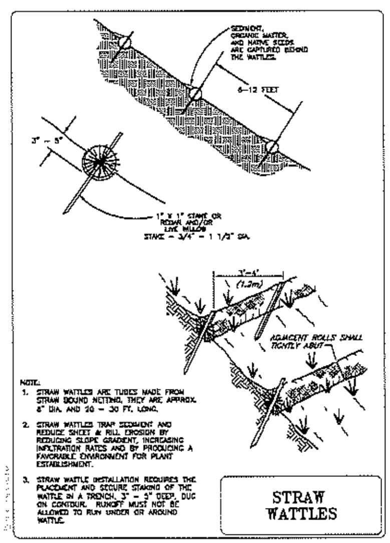

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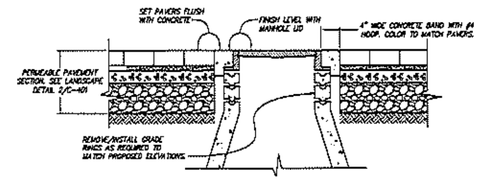

MANHOLE IN PERMEABLE PAVERS (14)
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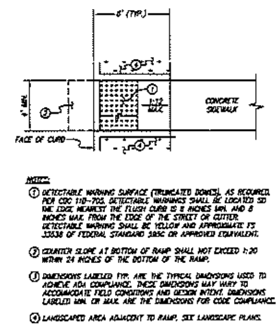

IN–LINE ACCESSIBLE RAMP (CBC 2013, SUPP. 2015) (15)
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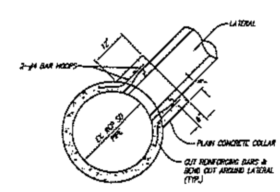

CONCRETE COLLAR DETAIL (16)
N.T.S.

CHABOT COLLEGE
CHABOT COLLEGE
Biological Science
B2100 Building
Annex
25555 Hesperian Drive
Hayward, CA 94545

SANDIS
CIVIL ENGINEERS SURVEYORS PLANNERS

09/18/17 DSA Approval

Revisions:

No	Date	Description
1	04/03/18	B/I #10
2	10/04/18	BULLETIN

HED
417 MONTGOMERY STREET
SUITE 400
SAN FRANCISCO, CALIFORNIA
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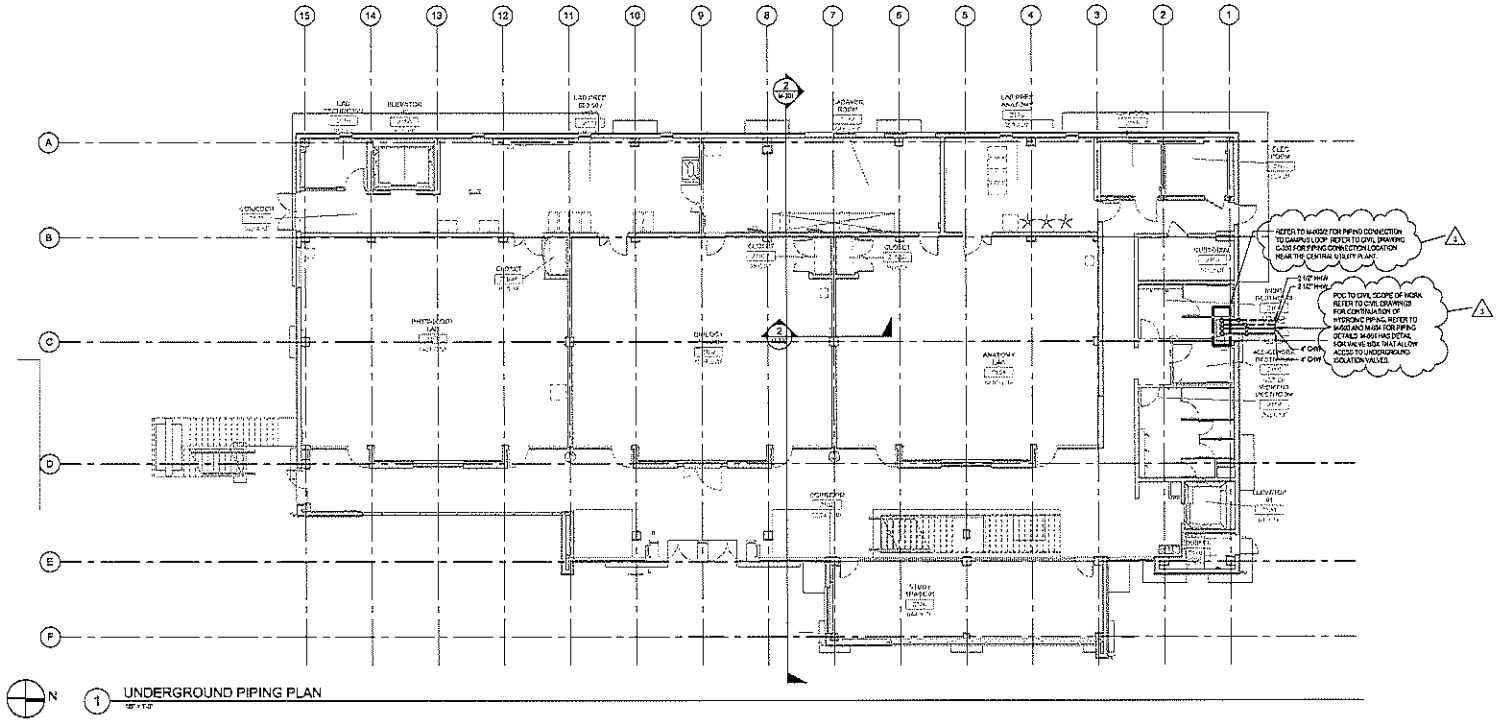
(T) 415 981 2345
WWW.HED.DESIGN

Project 2015-20004-000
Drawn SEC
Checked BKC
Approved MAK

Title CONSTRUCTIC DETAILS

Sheet No. C-601

File: K:\P\615093\PLAN SETS\C-600.dwg Date:Oct 04, 2018



1 UNDERGROUND PIPING PLAN

CHABOT COLLEGE

CHABOT COLLEGE

Biological Science Building Annex

25555 Hesperian Drive
Hayward, CA 94545

ARUP

Arup North America Ltd.

9/18/17 DSA Approval

Revisions:

No	Date	Description
3	10/4/2018	Bulletin 003

HED

417 MONTGOMERY STREET
SUITE 400
SAN FRANCISCO, CALIFORNIA
94104 USA

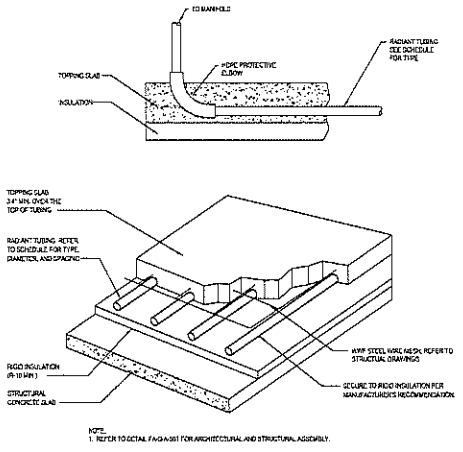
(T) 415 681 2345

WWW.HED.DESIGN

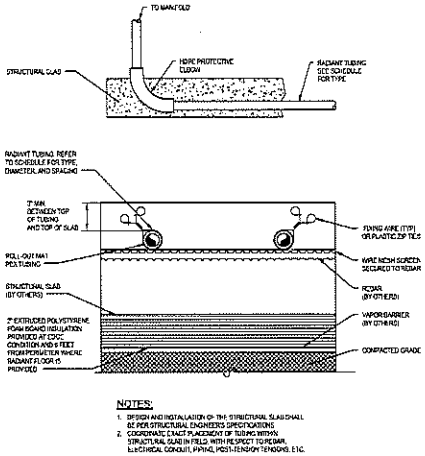
Project No. 245042
Drawn DK
Checked WK
Approved JF

Title
UNDERGROUND PIPING PLAN

Sheet No. M-20U



1 RADIANT PIPING
NTS



2 RADIANT SLAB ON GRADE DETAIL
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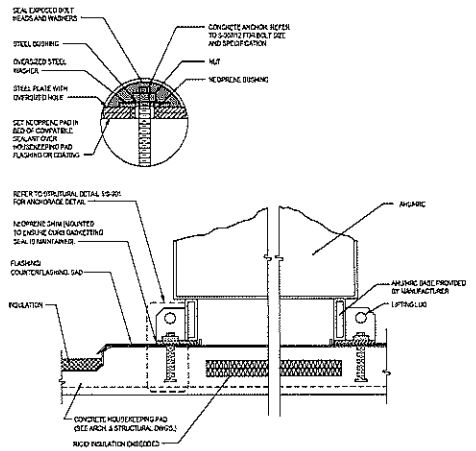
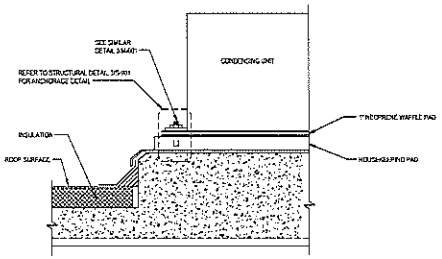


3 AHU/HRC MOUNTING DETAIL
NTS



4 VRF CONDENSING UNIT MOUNTING DETAIL
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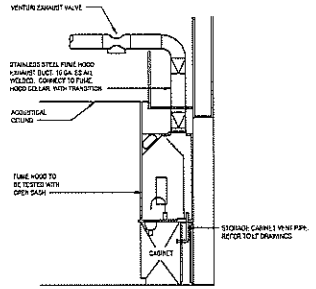
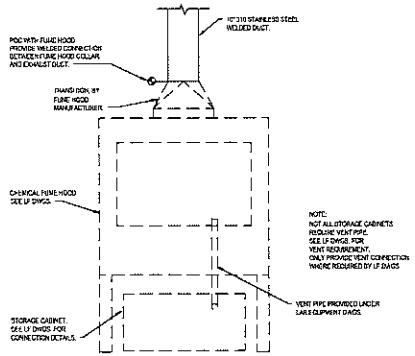
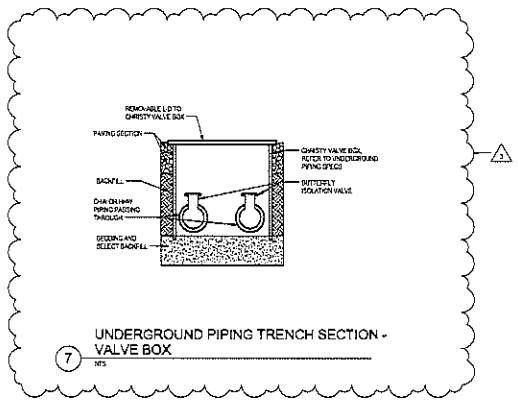


KEY NOTES:
1 SEE ARCH. DRAWINGS FOR LOCATION.

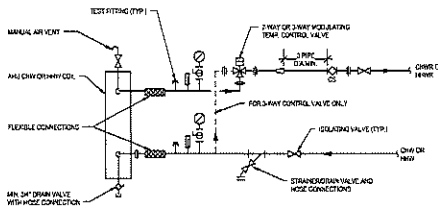
FUMEHOOD (NON-TOXIC STORAGE) IN LAB EXHAUST CONNECTION DETAIL
12" = 1'-0"



FUME HOOD/STORAGE CABINET CONNECTION
NTS



UNDERGROUND PIPING TRENCH SECTION - VALVE BOX
NTS



8 AHU CHW / HHW PIPING
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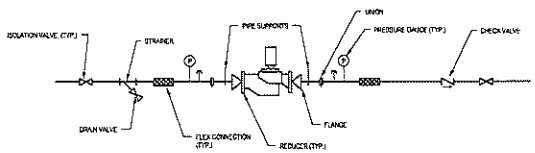

9 IN LINE PUMP PIPING DETAIL
NTS

CHABOT COLLEGE

CHABOT COLLEGE
Biological Sciences Building Annex
25555 Hesperian Drive
Hayward, CA 94545

ARUP
Arup North America Ltd.
560 Mission Street, Suite 700
San Francisco, CA 94105
Tel (415) 957 9445 Fax (415) 957 9096
www.arup.com

9/18/17 DSA Approval

Revisions:

No	Date	Description
3	10/4/2018	Bulletin 006

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WWW.HEDDESIGN

Project No. 245042
Drawn DK
Checked WS
Approved JF

Title
MECHANICAL DETAILS

Sheet No. M-601

W. A. THOMAS CO., INC

2356 Pacheco Blvd
Martinez, CA 94553

Telephone (925) 228-9600
FAX (925) 228-6932

Biological Sciences B2100 Building Annex
Chabot College
25555 Hesperian Blvd., Hayward CA 94545

WATCO Job No. 618

CHANGE ESTIMATE No. 17286.2 — 1/24/2022

Revised

Item	Hrs	Material / Equip.	Labor	Subcontractor	Total
Change Description:					
Cost to furnish and install new recessed down can light fixtures in Corridor per RFI# 512.2					
Breakdown of Estimated Subcontractor Costs:					
				$0	$0
BME Electric proposal dated 5/10/2021				$2,698	$2,698
					$0
				$0	$0
Qualifications: Price for itemized work only listed on subcontractor quotation. Overtime excluded. Any extra work not noted or unforseen conditions will be priced separately.				$0	$0
				$0	$0
W. A. Thomas Co., Inc. Work				$0	$0
			$0	$0	$0
				$0	$0
				$0	$0
				$0	$0
Subtotal		$0	$0	$2,698	$2,698
Tax 10%					$0
15% on WATCO work					$0
5% on Subcontractor Costs ($2342)					$117
1% Bond (GC)					$28
Total Lump Sum					**$2,843**

Additional Time: 1CD per Vanir Email dated 9/23/21

This quotation is based solely on the direct cost elements involved for the change noted and does not include any evaluation of the impact or the subject change upon the contract time or any costs related thereto. This quotation is only for the work described hereln.

Okay

Jim Smith

From: Barger, Eric <eric.barger@vanir.com>
Sent: Thursday, September 23, 2021 10:18 AM
To: Jim Smith
Cc: bill@wathomas.net; Brown, Alaine
Subject: RE: Chabot - OCO #13 Draft
Attachments: Chabot Change Order 013v4Draft.pdf

Jim,

I took another look at CE 17262.1 and 17286.1 with Michael Garr. It has been decided that in the spirt of getting these settled a 1 day each Time Extension will be granted. With that being said we do not agree that either of these changes had an affect on the projects critical path of the then current approved schedule update. These CEs may be revisited during the final settlement of the project.

Attached is a revised draft of OCO #13 for your review.

Thank you,

Eric Barger
Senior Construction Manager


Solutions for Success

Vanir Construction Management, Inc.
Area Office: 180 Montgomery Street, San Francisco, CA. 94104
CL# 459092 B / www.vanir.com

Mobile: 510.876.6029 / eric.barger@vanir.com

From: Jim Smith <jim@wathomas.net>
Sent: Thursday, September 23, 2021 7:27 AM
To: Barger, Eric <eric.barger@vanir.com>
Cc: bill@wathomas.net
Subject: RE: Chabot - OCO #13 Draft

Eric:

If the time cannot be granted due to documentation, then please remove these CEs from CO#13 as well.

Thank you,

Jim Smith
Project Manager

CE 11206
578

BME ELECTRICAL CONSTRUCTION, INC.

1281 30TH STREET
OAKLAND, CA 94608
OFFICE: 510.208.1967 FAX: 510.208.1966
CA C-10 # 887811

5/10/21

DIR # 1000002993

TO: **WA Thomas**

RE: **Chabot College B2100 512.2 Response**

We are pleased to provide a proposal on the above referenced project. Our proposal is based on the following information:

1. Information from Engineer of Record
2. Original Fixture Cannot be Returned
3. Fixture Lead Time is 4-8 Weeks

INCLUDED:

1. (3) Recessed Down Cans in Corridor per RFI 512.2
   a. (2) Standard and (1) Emergency

BME Subtotal	$2,342.00
Markup @ 12%:	$281.04
Bond @ 2.85%:	$74.76
BME Total:	$2,697.80
Total:	$2,697.80

CLARIFICATIONS:

1. BME Relieves Itself & Subcontractors of Any and All Responsibility for Ensuring Proper Design by Owner Mandated Vendors. If Changes/Charges Arise Out of Incomplete Design by These Vendor(s) the Owner Will Bear These Costs
2. If Any More Work is Required than What is Stated on Attached Scope, it Will be Quoted Separately

EXCLUSIONS:

1. All Items Not Shown Above
2. All Low Voltage Systems Cabling or Conduit Systems (Tele/Data, Security, Mechanical, BMS, Etc.)
   a. Unless Specifically Included in Proposal
3. Relocation/Re-work of Utilities/Existing to Remain Electrical Items- Unless Specifically Shown on Drawings
4. Any Specialty Finishes (Interior and/or Exterior)
5. Any Systems Not Shown on Drawings
6. No Spare Parts Provided Unless Shown Above
7. Painting
8. Removal/Repair of Existing Surfaces
9. Any Work Required by Any Other Subcontractors
28 Premium Time
10. Electrical Engineering
11. Seismic Engineering
12. Drawings

If there are any questions or concerns, please contact us.
Sincerely,

Sasha McGraw- BME Electrical Construction, Inc.

Job ID: 5-10-21a
Project: Chabot Added Lighting RFI 512.2

Bid Summary Report

Vendor: TARGET **Labor Level:** LABOR 1 **10 May 2021 11:27:22**

Tax Rate status: Default **Bid Name:** Base Bid **Bid Template:** BASIC (EXPANDED O&P)

Drawing	Phase	Quote $	Material $	Equip $	SubCon $	Labor Hrs
	FIXTURES	1,172.00	0.00	0.00	0.00	0.00
	FIXTURES > down cans	0.00	84.13	0.00	0.00	8.05
	FIXTURES > credit for wall mount	0.00	0.00	0.00	0.00	-0.77
	Sheet Totals:	1,172.00	84.13	0.00	0.00	7.28
	Tax:	108.41	7.78	0.00	0.00	
				Sub Total (Quo/Mat/Equip/Sub):	1,256.13	
				Sales Tax:	116.19	
				Sub Total:	1,372.32	1,372.32

Bid Notes:

TAX RATES

Material:	9.2500%
Quote:	9.2500%
Labor:	0.0000%
Equipment:	0.0000%
Subcontract:	0.0000%
Job:	0.0000%

MISCELLANEOUS

Avg. Lbr. Rate (Cost):	133.35
Avg. Lbr. Rate (Bid):	133.35
Total Square Feet:	1.00
Cost Per Sq. Ft.:	2,342.91
Labor $ Per Sq. Ft.:	970.59
Labor Hrs Per Sq. Ft.:	7.28
Quantity of Units:	1.00
Cost Per Unit:	2,342.91
Calc. Adjustment:	0.00%

Direct Labor $:	970.59
Indirect Labor $:	0.00
Labor Escalation:	0.00
Labor Tax:	0.00
Direct Job Costs (0.00%):	0.00
Prime Cost:	2,342.91
Overhead (Avg. 0.00%):	0.00
Net Cost:	2,342.91
Profit (Avg. 0.00%):	0.00
Job Tax:	0.00
Bond (0.0000%):	0.00
Lump Sum:	0.00
Selling Price:	2,342.91

BME Electrical Construction, Inc.
1281 30th St
Oakland, CA 94608
Phone: 510-208-1967
Web: bmeconstruction.com

LABOR ADJUST

ESTIMATED HOURS	ELECTRICAL	MACHINE OPERATOR	LOW VOLTAGE	Labor Class 4	Labor Class 5	Labor Class 6	Labor Class 7	Labor Class 8	Labor Class 9	Labor Class 10
REGULAR	7.28	--	--	--	--	--	--	--	--	--
OVERTIME	--	--	--	--	--	--	--	--	--	--
SHIFT-2	--	--	--	--	--	--	--	--	--	--
SHIFT-3	--	--	--	--	--	--	--	--	--	--
DOUBLE TIME	--	--	--	--	--	--	--	--	--	--
ESTIMATED HOURS:	7.28	--	--	--	--	--	--	--	--	--
LOSS LBR ADJ:	--	--	--	--	--	--	--	--	--	--
CALCULATED HRS										
REGULAR	7.28	--	--	--	--	--	--	--	--	--
OVERTIME	--	--	--	--	--	--	--	--	--	--
SHIFT-2	--	--	--	--	--	--	--	--	--	--
SHIFT-3	--	--	--	--	--	--	--	--	--	--
DOUBLE TIME	--	--	--	--	--	--	--	--	--	--
TOTAL ADJ LABOR:	7.28	--	--	--	--	--	--	--	--	--

TOTAL ADJUSTED LABOR HOURS: 7.28

DIRECT LABOR

Labor Class	Job Description	Labor Type	Crew	Rate	Man Hours	Extension
ELECTRICAL	FOREMEN (WORKING)	REGULAR	1	$133.35	7.28	$970.59

AVERAGE DIRECT LABOR RATE: $133.35

TOTAL DIRECT LABOR: $970.59

INDIRECT LABOR

Labor Description	Hours	Rate	Ext $

TOTAL INDIRECT LABOR: $0.00

DIRECT LABOR TOTAL:	970.59	
INDIRECT LABOR TOTAL:	0.00	
LABOR ESCALATION:	0.00	
LABOR $ ADJUSTMENT:	0.00	
LABOR TAX:	0.00	
LABOR TOTAL:		$970.59

MATERIAL:	84.13	
MATERIAL ESCALATION:	0.00	
MATERIAL ADJUSTMENT:	0.00	
MATERIAL TAX:	7.78	
MATERIAL TOTAL:		$91.91

QUOTES

Component	Vendor	Amount
FIXTURES		1,172.00

QUOTED MATERIAL:	1,172.00	
ADJUSTMENT:	0.00	
QUOTE TAX:	108.41	
QUOTED MATERIAL TOTAL:		$1,280.41

BME Electrical Construction, Inc.
1281 30th St
Oakland, CA 94608
Phone: 510-208-1967
Web: bmeconstruction.com

SUBCONTRACTS		
Component	**Vendor**	**Amount**

SUBCONTRACTS:	0.00	
ADJUSTMENT:	0.00	
SUBCONTRACT TAX:	0.00	
SUBCONTRACTS TOTAL:		$0.00

EQUIPMENT		
Component	**Vendor**	**Amount**

EQUIPMENT:	0.00	
ADJUSTMENT:	0.00	
EQUIPMENT TAX:	0.00	
EQUIPMENT TOTAL:		$0.00

DIRECT JOB COSTS	
Description	**Dollars**

TOTAL DIRECT JOB COSTS:	$0.00
JOB COST w/NO OVERHEAD:	**$2,342.91**

OVERHEAD	
MATERIAL OVERHEAD:(0% markup)	0.00
QUOTES OVERHEAD:(0% markup)	0.00
LABOR OVERHEAD:(0% markup)	0.00
SUBCONTRACTS OVERHEAD:(0% markup)	0.00
EQUIPMENT OVERHEAD:(0% markup)	0.00
DJC OVERHEAD:(0% markup)	0.00

TOTAL OVERHEAD:	$0.00
JOB COST w/OVERHEAO:	**$2,342.91**

PROFIT	
MATERIAL PROFIT:(0% markup)	0.00
QUOTES PROFIT:(0% markup)	0.00
LABOR PROFIT:(0% markup)	0.00
SUBCONTRACTS PROFIT:(0% markup)	0.00
EQUIPMENT PROFIT:(0% markup)	0.00
DJC PROFIT:(0% markup)	0.00

TOTAL PROFIT:	$0.00

MISCELLANEOUS	
JOB TAX:	0.00
BOND:	0.00

MISCELLANEOUS TOTAL:	0.00

BME Electrical Construction, Inc.
1281 30th St
Oakland, CA 94608
Phone: 510-208-1967
Web: bmeconstruction.com

LUMP SUM	
LUMP SUM 1:	0.00
LUMP SUM 2:	0.00
LUMP SUM 3:	0.00
LUMP SUM 4:	0.00

LUMP SUM TOTAL:	0.00

BID TOTAL:	**$2,342.91**

BME Electrical Construction, Inc.
1281 30th St
Oakland, CA 94608
Phone: 510-208-1967
Web: bmeconstruction.com

Job ID: 5-10-21a
Project: Chabot Added Lighting RFI 512.2

Summary by Subtotal

Chabot 512.2

Vendor: TARGET **Labor Level:** LABOR 1 **10 May 2021 11:29:47**

Subtotal 2 - EMT

Item #	Size	Description	Q/M	Quantity	U/M	Mat Unit	Mat Result	Lab Unit	Lab Result	Quo Unit	Quo Result
10054	3/4	EMT	M	30.00	FT	0.9714	29.14	0.0465	1.40	0.0000	0.00
					Subtotal totals:		29.14		1.40		0.00

Subtotal 11 - EMT FITTINGS

Item #	Size	Description	Q/M	Quantity	U/M	Mat Unit	Mat Result	Lab Unit	Lab Result	Quo Unit	Quo Result
30542	3/4	EMT STEEL-SS COUPLING	M	3.00	EA	0.5557	1.67	0.0465	0.14	0.0000	0.00
30658	3/4	EMT STEEL SS CONNECTOR	M	6.00	EA	0.3866	2.32	0.1000	0.60	0.0000	0.00
161774	3/4	EMT 1-HOLE STEEL STRAP	M	4.00	EA	0.1257	0.50	0.0400	0.16	0.0000	0.00
					Subtotal totals:		4.49		0.90		0.00

Subtotal 13 - HANGERS/SUPPORTS

Item #	Size	Description	Q/M	Quantity	U/M	Mat Unit	Mat Result	Lab Unit	Lab Result	Quo Unit	Quo Result
161264	#10 x 1"	TEK SCREW	M	4.00	EA	0.0624	0.25	0.0240	0.10	0.0000	0.00
630527	517A	T-BAR/CHANNEL HI-HAT SUSPENSION BAR SET	M	3.00	EA	5.4164	16.25	0.0700	0.21	0.0000	0.00
					Subtotal totals:		16.50		0.31		0.00

Subtotal 18 - FIXTURES

Item #	Size	Description	Q/M	Quantity	U/M	Mat Unit	Mat Result	Lab Unit	Lab Result	Quo Unit	Quo Result
120006		LED RECESSED ROUND HI-HAT FIXTURE	M	3.00	EA	0.0000	0.00	1.2500	3.75	0.0000	0.00
120021	10 FT	LED SURFACE FIXTURE W/LENS	M	1.00	EA	0.0000	0.00	-0.7700	-0.77	0.0000	0.00
					Subtotal totals:		0.00		2.98		0.00

Subtotal 31 - THHN/THWN CU

Item #	Size	Description	Q/M	Quantity	U/M	Mat Unit	Mat Result	Lab Unit	Lab Result	Quo Unit	Quo Result
70033	12	THHN/THWN CU (STR)	M	198.00	FT	0.1652	32.71	0.0060	1.19	0.0000	0.00
					Subtotal totals:		32.71		1.19		0.00

Subtotal 42 - WIRE TERMINATIONS

Item #	Size	Description	Q/M	Quantity	U/M	Mat Unit	Mat Result	Lab Unit	Lab Result	Quo Unit	Quo Result
100137	#18 to 10	WIRE-NUT SML -YELLOW	M	3.00	EA	0.0993	0.30	0.0500	0.15	0.0000	0.00
100139	#18 to 8	WIRE-NUT MED -RED	M	6.00	EA	0.1653	0.99	0.0600	0.36	0.0000	0.00
					Subtotal totals:		1.29		0.51		0.00
					Job totals:		84.13		7.28		0.00

BME Electrical Construction, Inc.
1281 30th St
Oakland, CA 94608
Phone: 510-208-1967
Web: bmeconstruction.com

Grand Material, Quote, Equipment, and Subcontract Total: 84.13

BME Electrical Construction, Inc.
1281 30th St
Oakland, CA 94608
Phone: 510-208-1967
Web: bmeconstruction.com

W. A. THOMAS CO., INC.

2356 Pacheco Boulevard
Martinez, CA 94553

Telephone (925) 228-9600
FAX (925) 228-6932

FIELD REQUEST FOR INFORMATION NO.: 512.2

Eric Barger
Vanir CM.
E-Mail: eric.barger@vanir.com

Date: April 22, 2021
Re: Chabot Bio-Science Annex
Pages Faxed: 1 WATCO Project: 518

Subject: Bulletin 38 & T-bar Ceiling Hgt. 2nd Floor

Spec. / Drwg: Bulletin 38 / RFI 512.1

Contractor: BME, Division 9 & MGM

Info.Req: The metal joist framing added per RFI 512.1, did not take into account the D09 light fixture on the East wall of corridor 2185. The DO9 light does not fit between the ledger and joists that attach to the wall, and the T-bar ledger. Please advise.

Appreciably Different Yes No
Urgency: High

Date Information Needed: 5/6/2021

Cost / ScheduleImpact: Yes

Project IOR:

Bill Luce W. A. THOMAS CO. INC.

Answer:

Recommend using (3) Type D05 recessed downlights in this corridor to accommodate the RFI 512.1 changes. Refer to markup attached.

Michael Myers, HED
5/5/21

☐ Answered In Contract Documents

Response Date:

DSA Approval:

W. A. THOMAS CO., INC.

2356 Pacheco Boulevard
Martinez, CA 94553

Telephone (925) 228-9600
FAX (925) 228-6932

FIELD REQUEST FOR INFORMATION NO.: 512

Eric Barger
Vanir CM.
E-Mail: eric.barger@vanir.com

Date: September 18, 2020
Re: Chabot Bio-Science Annex
Pages Faxed: 4 WATCO Project: 518

Subject: T-bar Ceiling Hgt. 2nd Floor

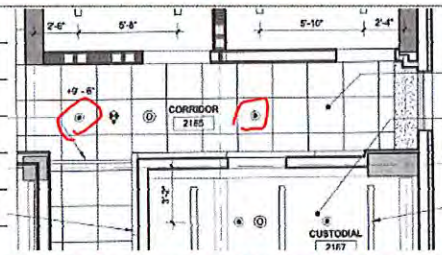
Spec. / Drwg: Attached

Contractor: BME & Division 9

Info.Req: Please see attached BME RFI dated 9/18/2020: Ceiling height on second floor t-bar area between column lines A and B is supposed to be 8'-6" .We have installed our feeder conduits as high as possible. We are still only at 8-6" in some locations, this does not leave enough room for light fixtures. Can the ceiling be lower by 4"

1. Multiple requests have been approved to lower ceiling heights to accommodate construction, including RFI 371 replied a year ago to reduce ceiling heights to 8'-6". Is this a final, coordinated request by all parties involved, including but not limited to ceiling installers, FP and security and FA subs?

2. It appears from a comparison of the photo in the RFI to the ceiling plans for the area that there is no conflict with light fixtures. There are only two can lights in the area, which do not appear to conflict with the conduits. Based in the information presented in this RFI, this request is denied.



3. RFI is not specific as to the extent of the ceilings to be lowered. If there are additional areas of concern other than that documented in this RFI, GC to submit markup of ceiling plan indicating in detail where clashes are anticipated between lights and existing conduit; what areas are proposed to be lowered to resolve them; any areas (doors, windows, equipment, etc.) where this may be a conflict; and also provide any details, if required, for ceiling transitions.

Appreciably Different Yes No
Urgency: High

Date Information Needed: 10/2/2020

Cost / ScheduleImpact: TBD

Project IOR:

Bill Luce W. A. THOMAS CO. INC.

RESPONSE: See above.

By: Michael Myers, HED
Response Date: 9/22/2020

Sub Copy:

DSA Approval:

BME ELECTRICAL CONSTRUCTION, INC.

1281 30TH STREET
OAKLAND, CA 94608
OFFICE: 510.208.1967 FAX: 510.208.1966
CA C-10 # 887811

DATE: 9/18/2020

TO: Bill Luce
WA Thomas, Inc,

RE: Chabot College B2100 Annex RFI

Below are RFI's the we have concerning the above refenced project.

Sheets Referenced: E-201

1. Ceiling height on second floor t-bar area between column lines A and B is supposed to be 8'-6". We have installed our feeder conduits as high as possible. We are still only at 8-6" in some locations, this does not leave enough room for light fixtures. Ceiling needs to lower by 4"

Cost & Time Impact possible based on Response.

If there are any questions or concerns, please contact us.

Sincerely,

Sasha McGraw- BME Electrical Construction, Inc.

W. A. THOMAS CO., INC.

2356 Pacheco Boulevard
Martinez, CA 94553

Telephone (925) 228-9600
FAX (925) 228-6932

FIELD REQUEST FOR INFORMATION NO.: 512.1

Eric Barger
Vanir CM.
E-Mail: eric.barger@vanir.com

Date: March 17, 2021
Re: Chabot Bio-Science Annex
Pages Faxed: 10 WATCO Project: 518

Subject: Bulletin 38 & T-bar Ceiling Hgt. 2nd Floor

Spec. / Drwg: Attached

Contractor: BME, Division 9 & MGM

Info.Req: Please see Bulletin 38 and attached pictures of the 2nd floor hallways: Bulletin 38 does not capture the total area of MEP congestion that hinders the instalation of T-bar compression posts, if compression posts are needed in these areas. Also, Bulletin 38 does not take into account the doorway and window soffits at the ends of the North and South hallways. These soffits were built per. Architectural design prior to the issuance of Bulletin 38. They were built to the prior ceiling elevation of 8'-6". Now with the lowered elevation of 8' in the area of 3 to 10 line between A and B line a elevation change could be incorporated in the hallways to match the soffit elevations. This would allow the existing soffits to remain as is. Prior discussions with HED have focused on practical locations for ceiling elevation changes. Are compression posts needed in the North hallway which covers 110 sq'? Are compression posts needed in the South hallway which covers 318 sq'? As previously discussed with A/O, the attic congestion in the South hallway thins out at 13 line. Compression posts, if needed, and standard T-bar framing details can be incorporated from 13 to15 line.

Appreciably Different Yes No
Urgency: High

Date Information Needed: 3/31/2021

Cost / Schedule Impact: Yes

Project IOR:

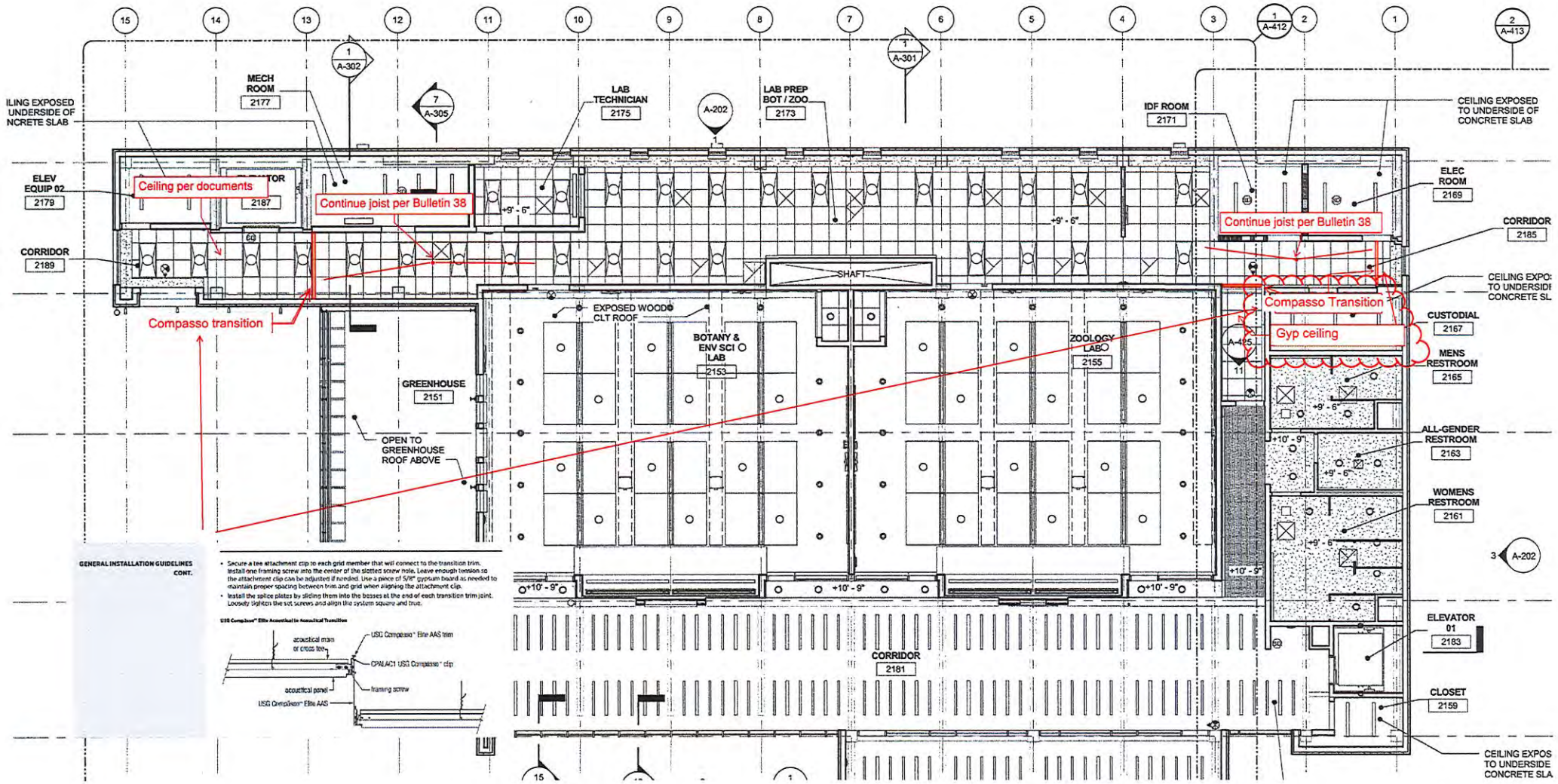
Bill Luce W. A. THOMAS CO. INC.

RESPONSE: See sketch following.

By: Michael Myers, HED
Response Date: 3/24/2021

Sub Copy:

DSA Approval:


Ceiling per documents
Continue joist per Bulletin 38
Compasso transition
Continue joist per Bulletin 38
Compasso Transition
Gyp ceiling
MECH ROOM 2177
LAB TECHNICIAN 2175
LAB PREP BOT / ZOO 2173
IDF ROOM 2171
ELEV EQUIP 02 2179
CORRIDOR 2189
ELEC ROOM 2169
CORRIDOR 2185
CUSTODIAL 2167
MENS RESTROOM 2165
ALL-GENDER RESTROOM 2163
WOMENS RESTROOM 2161
ELEVATOR 01 2183
CLOSET 2159
GREENHOUSE 2151
BOTANY & ENV SCI LAB 2153
ZOOLOGY LABO 2155
CORRIDOR 2181
SHAFT
EXPOSED WOOD CLT ROOF
OPEN TO GREENHOUSE ROOF ABOVE
CEILING EXPOSED TO UNDERSIDE OF CONCRETE SLAB
CEILING EXPOS TO UNDERSIDE CONCRETE SLA
GENERAL INSTALLATION GUIDELINES CONT.
Secure a tee attachment clip to each grid member that will connect to the transition trim. Install one framing screw into the center of the slotted screw hole. Leave enough tension so the attachment clip can be adjusted if needed. Use a piece of 5/8" gypsum board as needed to maintain proper spacing between trim and grid when aligning the attachment clip.
Install the splice plates by sliding them into the bosses at the end of each transition trim joint. Loosely tighten the set screws and align the system square and true.
USG Compasso™ Elite Acoustical to Acoustical Transition
acoustical main or cross tee
USG Compasso™ Elite AAS trim
CPALAC1 USG Compasso™ clip
framing screw
acoustical panel
USG Compasso™ Elite AAS

Bulletin 038.0

HED

Date • January 19, 2021
Project No. • 2015-30004-000
Client Project No. •

Project • Chabot College- B2100 Biological Sciences Building

THIS IS A REQUEST FOR SUBMISSION OF QUOTATION AND NOT AN ORDER FOR THE WORK

- This Bulletin is issued after Contract Award to obtain a quotation for proposed change(s) in the Work.
- Do not proceed with the work described herein until receipt of written authorization from the Owner.
- Unless otherwise stated in the Agreement or Contract, within fourteen (14) calendar days of date of Bulletin issue, submit a completed and signed Bulletin and three (3) copies of fully itemized quotation for Owner's review showing the cost and time adjustments necessary to execute the proposed change(s).
- When submitting complete itemized quotation, break down quotation according to "ITEMS" listed. Each "ITEM" amount shall be complete and shall include all costs for labor, materials, taxes, supervision, overhead, profit, etc.
- Unless otherwise indicated, the work described herein shall comply with, and be in conformance with the Contract Documents. Include incidental work required to properly complete this work, whether stated herein or not.
- Upon approval by the Owner, payments will be made in accordance with methods described in the Agreement or Contract Documents.

DOCUMENTS ISSUED

Drawings	• N/A
Supplemental Drawings	• Supplemental Drawing Bulletin 38/SK-6 thhrough SK-9;
Project Manual Sections	• N/A
Miscellaneous Items	• N/A

ITEM DESCRIPTIONS

ITEM 1 – Framed Ceiling Support for Second Floor Back of House Area Add / Deduct $_____

The attached drawing and spec updates are provided to revise ceiling support for back of house areas on second floor of the reference project.

Bulletin Quotation Grand Total: Add / Deduct $_____

Bulletin 038.0

HED

Date • January 19, 2021
Project No. • 2015-30004-000
Client Project No. •

BULLETIN AGREEMENT

- This Bulletin quotation is not valid until signed by the Contractor.
- Signature of the Contractor indicates agreement herewith, including any adjustment in the Contract Sum or the Contract Time.
- This quotation is guaranteed for a period of not less than 60 days from the date of signing below, and if authorized to proceed within that period, the Contractor agrees to complete the Work covered by this Bulletin at the amounts shown therein.

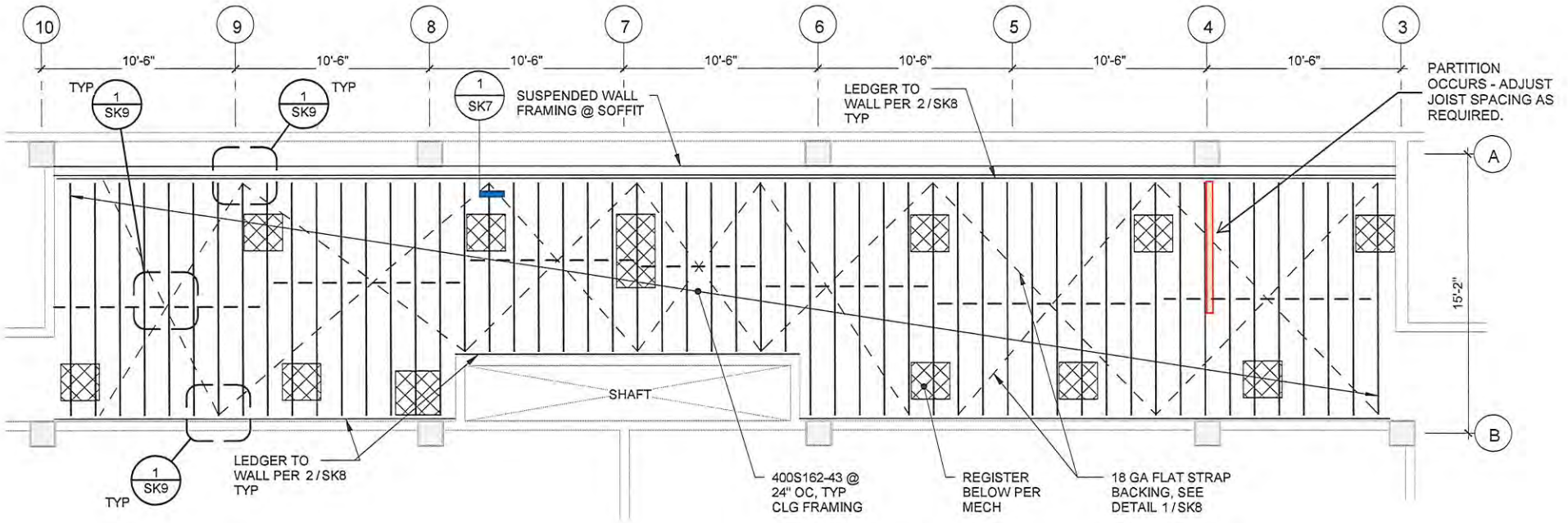
Agreed To:

_____
Name of Contractor

_____
Signature of person authorized to sign contracts for Contractor

_____
Title of person signing

Signed this _____ day of _____, 20__



1 / SK6 SECOND FLOOR CEILING FRAMING PLAN

SCALE: 3/16" = 1'-0"

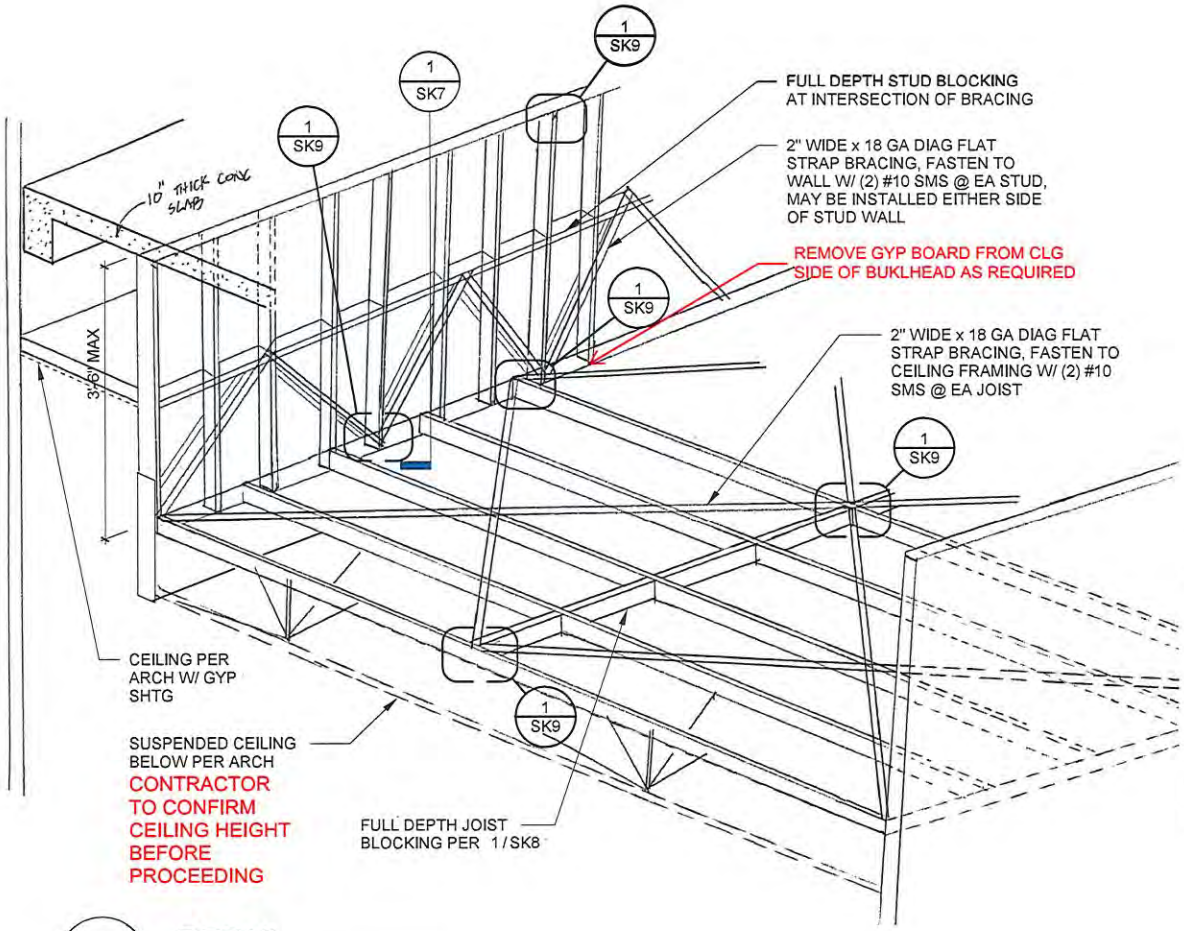
HED
417 MONTGOMERY STREET
SUITE 400
SAN FRANCISCO, CALIFORNIA
94108| USA
(T) 415 981 2345
WWW.HED.DESIGN

REGISTERED PROFESSIONAL ENGINEER
TIMOTHY FREI
No.4310
Exp 12/31/21
STRUCTURAL
STATE OF CALIFORNIA

BULLETIN 38

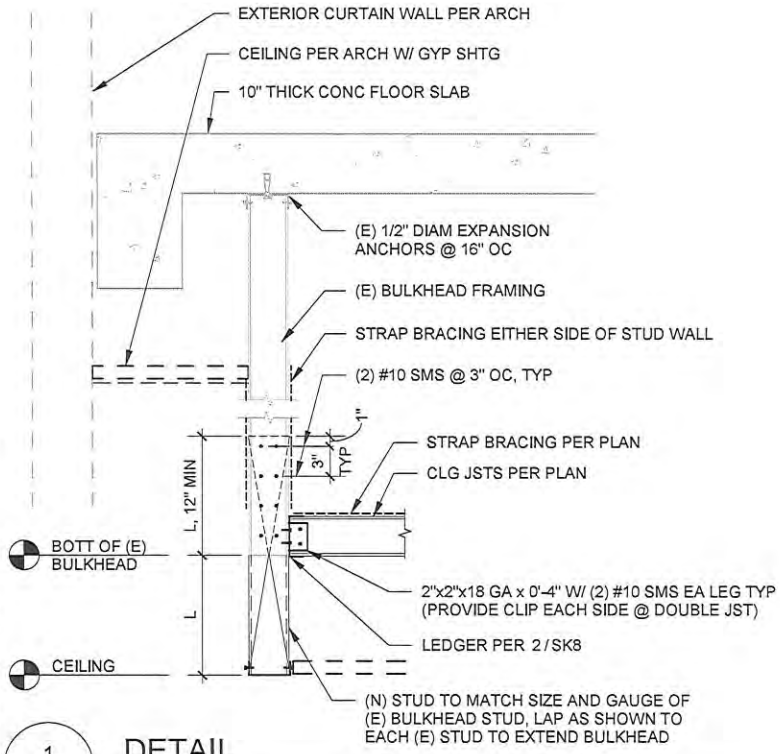
SECOND FLOOR CELING FRAMING
1/19/21
SK-6 (1 OF 4)

CHABOT COLLEGE
CHABOT COLLEGE
Biological Sciences
B2100 Building
Annex
25555 Hesperian Drive
Hayward, CA 94545



2 SK7 **DETAIL**

SCALE: 3/4" = 1'-0"



1 SK7 **DETAIL**

SCALE: 1" = 1'-0"

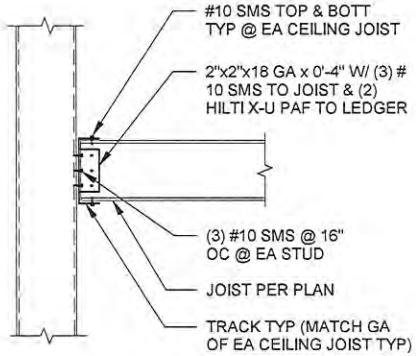
HED
417 MONTGOMERY STREET
SUITE 400
SAN FRANCISCO, CALIFORNIA
94108| USA
(T) 415 981 2345
WWW.HED.DESIGN

REGISTERED PROFESSIONAL ENGINEER
TIMOTHY FREL
No. 4310
Exp. 12/31/21
STRUCTURAL
STATE OF CALIFORNIA

BULLETIN 38

SECOND FLOOR
CELING FRAMING
1/19/21
SK-7 (2 OF 4)

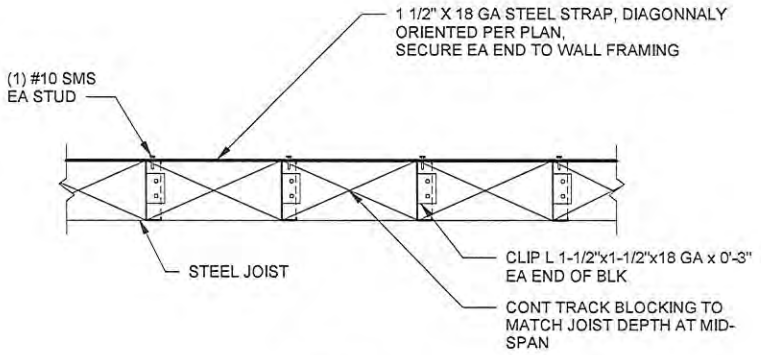
CHABOT COLLEGE
CHABOT COLLEGE
Biological Sciences
B2100 Building
Annex
25555 Hesperian Drive
Hayward, CA 94545



@ METAL STUD WALLS

2 DETAIL

1" = 1'-0"



SECTION

1 TYPICAL STRAP BRACING DETAIL

3/4" = 1'-0"

HED

417 MONTGOMERY STREET
SUITE 400
SAN FRANCISCO, CALIFORNIA
94108| USA

(T) 415 981 2345

WWW.HED.DESIGN

REGISTERED PROFESSIONAL ENGINEER
TIMOTHY FREL
No.4310
Exp.12/31/21
STRUCTURAL
STATE OF CALIFORNIA

BULLETIN 38

SECOND FLOOR
CELING FRAMING
1/19/21
SK-8 (3 OF 4)

CHABOT COLLEGE

CHABOT COLLEGE
Biological Sciences
B2100 Building
Annex

25555 Hesperian Drive
Hayward, CA 94545

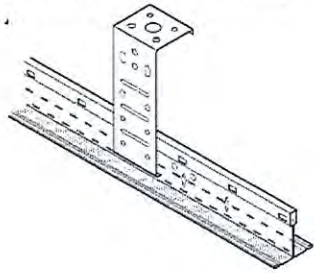
USG CLOSE MOUNT ATTACHMENT CLIP

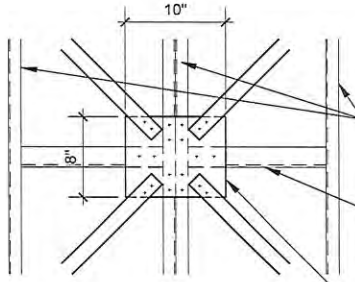
CMAC-1

The USG Close Mount Attachment Clip is use to attach suspension systems to the structure above when the plenum space is limited. The CMAC-1 attaches to the main tees and replaces hanger wires in these types of installations. It can be used with all USG Donn brand suspension systems inluding USG Drywall Suspension Systems and Specialty Ceiling Systems.

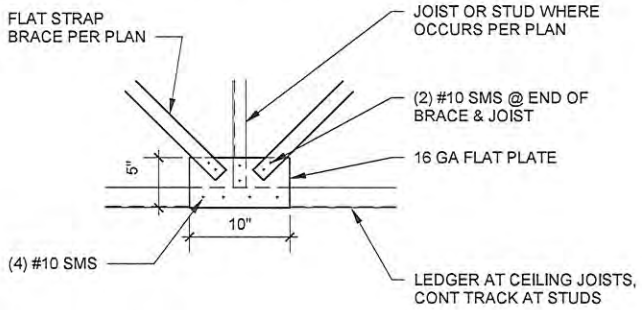
- 18 Gauge (.047") G90 hot dip galvanized steel
- For interior and exterior applications
- Works with all USG/Donn main tees
- Reversible design for different plenum depth options

USG Drywall Suspension System Main Tee





PLAN VIEW
AT MIDSPAN OF CEILING JOISTS



PLAN VIEW
AT BRACE ENDS

1 DETAIL
1" = 1'-0"

HED
417 MONTGOMERY STREET
SUITE 400
SAN FRANCISCO, CALIFORNIA
94108| USA
(T) 415 981 2345
WWW.HED.DESIGN

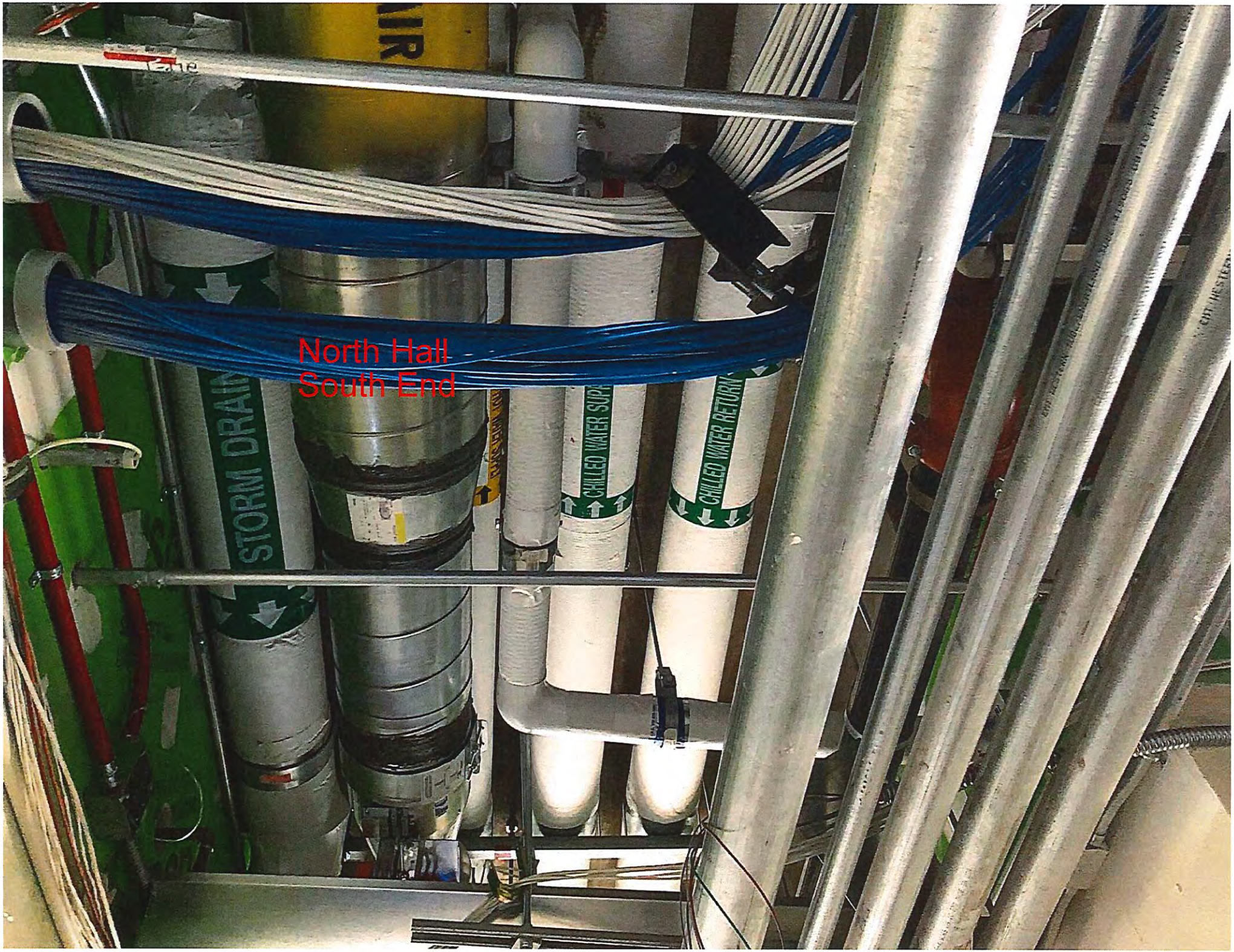
REGISTERED PROFESSIONAL ENGINEER
TIMOTHY FREL
No.4310
Exp.12/31/21
STRUCTURAL
STATE OF CALIFORNIA

BULLETIN 38

SECOND FLOOR
CELING FRAMING
1/19/21
SK-9 (4 OF 4)

CHABOT COLLEGE
CHABOT COLLEGE
Biological Sciences
B2100 Building
Annex
25555 Hesperian Drive
Hayward, CA 94545

North Hall
North End


North Hall
South End
STORM DRAIN
CHILLED WATER SUP
CHILLED WATER RETURN


South Hall
North End


South Hall
South End

W. A. THOMAS CO., INC

2356 Pacheco Blvd
Martinez, CA 94553

Telephone (925) 228-9600
FAX (925) 228-6932

Biological Sciences B2100 Building Annex
Chabot College
25555 Hesperian Blvd., Hayward CA 94545

WATCO Job No. 518

CHANGE ESTIMATE No. 17290.1

1/24/2022
Revised

Item	Hrs	Material / Equip.	Labor	Subcontractor	Total
Change Description:					
Cost to install conduit for elevator phone line per RFI# 561 response					
Breakdown of Estimated Subcontractor Costs:					
				$0	$0
BME Electric Work Order Summary dated 7/1/2021				$166	$166
					$0
				$0	$0
Qualifications: Price for itemized work only listed on subcontractor quotation. Overtime excluded. Any extra work not noted or unforseen conditions will be priced separately.				$0	$0
				$0	$0
W. A. Thomas Co., Inc. Work				$0	$0
			$0	$0	$0
				$0	$0
				$0	$0
				$0	$0
Subtotal		$0	$0	$166	$166
Tax 10%					$0
15% on WATCO work					$0
5% on Subcontractor Costs ($147)					$7
1% Bond (GC)					$2
Total Lump Sum					**$175**

Additional Time: None

This quotation is based solely on the direct cost elements involved for the change noted and does not include any evaluation of the impact or the subject change upon the contract time or any costs related thereto. This quotation is only for the work described herein.

OK

CE 17290
3954 STB

BME ELECTRICAL CONSTRUCTION, INC.
1281 30th Street
Oakland, CA 94608

(510) 208-1967
CA C-10 # 887811

ELECTRICAL
Work Order / Invoice

TO: WA Thomas
C/o Eric Barger

DATE OF ORDER 7-1-21	TEL.
ORDER TAKEN BY	CUSTOMER ORDER NO
STARTING DATE	☐ DAYWORK ☐ CONTRACT ☐ EXTRA
JOB NAME / NO.	
JOB LOCATION	
INVOICE DATE 9/13/2021	JOB TEL.

TERMS:

DESCRIPTION OF WORK

Installed Conduit for elavator phone line
per RFI 561 - CE17290

LABOR	HRS.	@	AMOUNT
Mike P	1	$ 137.56	$ 137.56
		$ -	$ -
			$ -
			$ -
		TOTAL LABOR	$ 137.56

QTY	MATERIAL	@	AMOUNT
10'	EMT	$ 1.45	$ 14.50
1	Raco 187	$ 6.45	$ 6.45
2	3/4" set screw con.	$ 2.25	$ 4.50
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
			$ -
		TOTAL MATERIALS	$ 25.45

Time Verified
William Plua

Verbal T&M only
Eric Barger
9/13/21

IF NEEDED PLEASE SEE ATTACHED SHEET(S)

WORK ORDERED BY

I hereby acknowledge the satisfactory completion of the above described work.

SIGNATURE _____ DATE _____

TOTAL LABOR		$ 137.56
TOTAL MATERIALS		$ 25.45
TAX	10.25%	$ 2.61
TOTAL		$ 165.62

PAGE 1 OF 1

Thank You!

RFI Module

View RFI

Distribute RFI Close Window

Chabot-Las Positas CCD
Building 2100 Biology Annex

Request for Information

RFI #:	**RFI-0561**			**Contractor's Ref #:**	
Title:	Elevator telephone line			**Contract #:**	WA Thomas Constr
Financial Project #:	552850			**Date:**	6-9-2021 04:25
From:	B2100-GC	Bill Luce	WA Thomas	**Reply Needed By:**	6-23-2021 04:24
BIC:				**Assigned Date:**	
Status:	Closed			**Location:**	Elevator Machine room
				Document/Drawing Reference:	N/A

Question:

The telephone line for the 3500 elevator equipment room has been installed per the drawings. This is in a wall box and does not tie to the Elevator equipment. Otis requires a phone line in their equipment. How should the phone line be relocated to the elevator equipment, conduit, wiremold, etc.?

Answer:

The District IT department has noted that the connection to the elevator control panel is done with a patch cord. CM 6/11/2021

☐ Answered In Contract Documents

Additional Info:

Cost Impact: No
Schedule Impact: No
CO Reference:

Attachments:

None

Comments:

None

History:

Created by B2100-GC Bill Luce on 6/9/2021 4:24:38 AM
Answered-Routed to Initiator by B2100-CM Eric Barger on 6/11/2021 5:08:28 AM

W. A. THOMAS CO., INC

2356 Pacheco Blvd
Martinez, CA 94553

Telephone (925) 228-9600
FAX (925) 228-6932

Biological Sciences B2100 Building Annex
Chabot College
25555 Hesperian Blvd., Hayward CA 94545

WATCO Job No. 618

CHANGE ESTIMATE No. 17301.1

11/15/2021
Revised

Item	Hrs	Material / Equip.	Labor	Subcontractor	Total
Change Description:					
Cost proposal per CFD #103 Security cable from Greenhouse enclosure to AMAG panel					
Breakdown of Estimated Subcontractor Costs:					
				$0	$0
BME Electric proposa/ Netronix dated 8/09/2021				$3,960	$3,960
					$0
				$0	$0
Qualifications: Price for itemized work only listed on subcontractor quotation. Overtime excluded. Any extra work not noted or unforseen conditions will be priced separately.				$0	$0
				$0	$0
W. A. Thomas Co., Inc. Work				$0	$0
If additional janitorial cleanup is need due to this work, it will be charged separately on T&M			$0	$0	$0
				$0	$0
				$0	$0
				$0	$0
Subtotal		$0	$0	$3,960	$3,960
Tax 10%					$0
15% on WATCO work					$0
5% on Subcontractor Costs ($3301)					$165
1% Bond (GC)					$41
Total Lump Sum					**$4,166**

Additional Time: None

This quotation is based solely on the direct cost elements involved for the change noted and does not include any evaluation of the impact or the subject change upon the contract time or any costs related thereto. This quotation is only for the work described herein.

Chabot-Las Positas Community College District

Construction Field Directive

To: W.A. Thomas Co., Inc. **Field Dir. 103**
Project: Biological Sciences B2100 Building Annex **Issue: 08/03/2021**

Description of Work:

- Provide labor, materials, and equipment to connect the greenhouse alarm manager to the Amag panel, and any associated programming to alert Campus Safety of trouble in the greenhouse environmental systems.

Reason for Directive:

- The system intent was to have a district provided computer monitor the alarm manager. It has been determined that if this computer is shut down the greenhouse will not be monitored.

Direction:

☐ Proceed with work on T&M Basis; submit T&M back-up daily.
Cost not to exceed $00.00 estimate
Contractor shall notify Construction Manager when costs reach 80% of the Not to exceed amount.

☐ Provide Credit in the amount of $ (XX) for the additional service provided by the Architect as a result of non-conforming work.

☒ Proceed with work, submit signed T&M back-up daily, unless PCO is provided prior and approved.
The District reserves all rights and remedies under the contract.

☐ Proceed with work, work considered in scope of contract.

☐ Proceed with the work in accordance with the proposal CExx dated xx xx, 2021 in the amount of .00 0-day Time Extension.
The work will be added to the contract by change order.
The District reserves all its rights and remedies under the contract.

By Eric Bonyun — 8/3/2021
VanirCM, Inc. Construction Manager — Date

By Mark Gan — 08/05/2021
Chabot College Campus Project Planner/Mgr. — Date

Proposal

8/9/2021

BME ELECTRICAL CONSTRUCTION, INC.
Attn: Sasha McGraw

Proposal - 19131
Reference: CO # 1 Chabot B2100 Annex Security Difference in Labor

Dear Sasha McGraw:

Thank you for the opportunity to partner with BME ELECTRICAL CONSTRUCTION, INC. for this project. Netronix is pleased to present this Proposal for the installation of new security systems at your facility. Netronix is a full-service integration, service/maintenance and monitoring firm specializing in providing security and life safety solutions spanning the full spectrum of today's security challenges. Based upon the description of required services in the Scope of Work below, we can provide plans, specifications, qualified technical staff, project management, quality assurance and testing/commissioning services to meet all your electronic security enhancement requirements and maintenance needs.

Netronix has the expertise and capabilities to meet and exceed your expectations for this project. Upon execution of this Proposal, we will assign the necessary certified staffing to meet the requirements detailed in the Scope of Work.

On behalf of the entire Netronix staff, I sincerely appreciate the opportunity to be of service. Please feel free to contact me with any questions or comments.

Best Regards,

Scott Jarrett

Netronix Integration, Inc
SCOTT JARRETT
ACCOUNT EXECUTIVE
sjarrett@netronixint.com
(408) 573-1444

Place of Performance:
Chabot College 25555 Hesperian St Hayward CA 94545 United States

Scope of Work:

i. Netronix will provide and pull 22/6 cable from the greenhouse sensor enclosure to the AMAG panel.
ii. Netrionix will terminate (1) device to the greenhouse panel. Netronix will not be responsible for any issues or warranty on this device. All programing is excluded per our base contract and will be by others.
iii. Netronix will provide CAD drawings

Bill of Materials

Manufacturer	P/N	Description	Qty	Price	Amount
Connect Air	W244P-2274YLRB	24/4 Pair Solid Cat6E Plenum Jacket Yellow RIB 550 No Spline 1000ft	1	$ 328.58	$ 328.58
NET	MISC	J-Hooks, Ties, Labels,	1	$ 125.00	$ 125.00

The attached Schedule of Equipment, if any, defines and limits the equipment to be furnished as part of this Agreement. If any additional materials or equipment are needed, then there will be additional charges.

Pricing

Materials Total	$453.58
Shipping and Handling	$18.14
Labor	$3,175.14
Sales Tax	$50.71
TOTAL	**$3,697.57**

Please note that this pricing includes estimated taxes. Tax rates may change, and you will be responsible for the then-current tax rate at the time of invoicing. If you are tax-exempt, please provide your tax-exempt certificate or applicable taxes will be charged.

BME 5% 184.88
Bond 2% 77.65
TOTAL $3,960.10

General Terms and Conditions:

1. **Installation Responsibility:** This Agreement is based upon the use of straight time labor only unless specifically stated in the Scope of Work. Plastering, patching, painting, 120VAC Power, conduit, raceway or other electrical panels, back boxes and additional fire alarm devices/interfaces are excluded unless specifically stated in the Scope of Work. Any equipment and/or labor not listed in the Bill of Materials or Scope of Work for this project are excluded. Customer agrees to provide NETRONIX with required field utilities (electricity, toilets, drinking water, project hoist, and elevator service, etc.) without charge. Netronix agrees to keep the job site clean of debris arising out of its own operations. Customer shall not back charge Netronix for any costs or expenses without NETRONIX's prior written consent. Unless specifically noted in the Scope of Work, NETRONIX's obligations expressly exclude any work or service of any nature associated or connected with the identification, abatement, clean up, control, removal, or disposal of hazardous or dangerous materials, to include but not be limited to asbestos or PCBs, discovered in or on the premises. Any language or provision of this Agreement elsewhere contained which may authorize or empower Customer to change, modify, or alter the Scope of Work or services to be performed by NETRONIX shall not operate to compel NETRONIX to perform any work without NETRONIX's express written consent.
2. **System Programming and Customer Training:** NETRONIX will be responsible for all hardware devices' programming and testing, and for Customer training on the use of the new equipment as specified herein. Loading of any database, including definition of access levels, alarm points, time zones, or any other user defined data is the responsibility of the Customer, except as specifically stated in the Scope of Work.
3. **Change Orders:** All changes to this Agreement shall require a Change Order executed by the parties, which shall modify the Scope of Work, Pricing, and timeline of the project.
4. **Warranty:** NETRONIX warrants that the equipment provided AND installed by it shall be free from defects in material and workmanship arising from normal usage for a period of one (1) year from delivery and installation of said equipment (the "Warranty Period"). During the Warranty Period, for equipment installed by NETRONIX, if Customer provides written notice to NETRONIX of any such defect

within thirty (30) days after the appearance or discovery of such defect, NETRONIX shall, at its option, repair or replace the defective equipment. During the Warranty Period, for equipment not installed by NETRONIX, if Customer returns the defective equipment to Netronix within thirty (30) days after appearance or discovery of such defect, NETRONIX shall, at its option, repair or replace the defective equipment and return said equipment to Customer. All transportation charges incurred in connection with the warranty for equipment not installed by NETRONIX shall be borne by Customer. These warranties do not extend to any equipment which has been repaired by others, abused, altered, misused, or has not been properly and reasonably maintained. THESE WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THOSE OF MERCHANTABILITY AND FITNESS FOR A SPECIFIC PURPOSE.

5. **Project Commencement:** No work shall proceed without an acceptable purchasing document to NETRONIX from Customer, along with a signed copy of this Agreement containing these terms and conditions.

6. **Mobilization:** Upon execution of this Agreement, NETRONIX shall submit a mobilization invoice for 25% of the total price to Customer, and Customer shall pay this invoice to NETRONIX within 10 business days. This mobilization invoice includes costs for administrative processing, engineering, drafting, equipment procurement, and shipping and receiving.

7. **Confidential Information:** Each party may make available to the other access to certain trade secrets and other confidential technical, business, and financial information, including the contents of this Agreement and the Exhibits thereto (collectively, "Confidential Information"). So long as and to the extent that Confidential Information is marked "Confidential" or "Proprietary" (if in tangible form) or is not generally available to the public from other sources, each party shall safeguard such Confidential Information in the manner in which it safeguards its own confidential information, and shall not disclose Confidential Information to its employees, contractors and agents, except to the extent necessary to enable it to fulfill its obligations under this Agreement. The obligations of this Section 7 shall survive for two (2) years after the termination or expiration of this Proposal. Customer shall indemnify Netronix from third party liability arising from any unintended use or unauthorized disclosure.

8. **Termination or Alteration:** Either party may terminate this Agreement for cause, by first providing written notice of all deficiencies to the other party, and the other party shall then have 30 days to cure such deficiencies. Either party may terminate this Agreement for convenience with seven (7) days prior notice. If Customer terminates for convenience, then Netronix shall be paid for all products purchased and services performed up to the effective date of termination, plus reasonable costs associated with the orderly close-out of the contract, and all anticipated profit based upon the original contract amount and any Change Orders executed prior to termination.

9. **Intellectual Property:** This Agreement and all accompanying materials, and the original information, designs, concepts, and ideas represented herein are the exclusive property of NETRONIX and may not be reproduced or copied in any manner without the express written authorization of NETRONIX. This Agreement and all associated materials, drawings, and documents must be returned promptly upon demand.

10. **Compliance with Laws:** NETRONIX shall comply with all applicable federal, state, and local laws and regulations and shall obtain all temporary licenses and permits required for the prosecution of the work. Licenses and permits of a permanent nature shall be procured and paid for by the Customer.

11. **Limitation of Liability:** Except as otherwise permitted by this Agreement, in no event shall either party be liable to the other for any consequential, indirect, incidental, punitive or liquidated damages resulting from any losses sustained under this Agreement, even if a party has been advised of the possibility of such losses. In no event shall NETRONIX's liability under this Agreement exceed the total amount paid to Netronix by Customer in the preceding 12 months.

12. **Debris Disposal:** NETRONIX will dispose of debris created by our work in Customer-furnished trash bins or containers at the site.

13. Invoicing & Payment: NETRONIX will invoice Customer monthly for all materials delivered to the job site or to an off-site storage facility, and for all work performed on-site and off-site. Customer shall pay NETRONIX within 30 days of the date of invoice submission. However, Netronix reserves the right at any time to require information from Customer sufficient for Netronix to make a determination of the proper payment terms based upon Customer's creditworthiness. If Netronix, in its sole discretion, deems Customer's creditworthiness unsatisfactory, then Customer hereby consents to Netronix's issuance of an unilateral modification to this Agreement stating the revised payment terms. Twenty-five (25%) of the contract price is for engineering, drafting and other mobilization costs incurred prior to installation, and shall be included in NETRONIX's initial invoice (see Section 6); the remaining balance shall be paid monthly to Netronix on a progress basis. Waivers of lien will be furnished upon request, as the work progresses to the extent payments are received. Final payment shall be due upon the completion of the project for the remaining balance of the Agreement, including taxes as required by law. No provisions of this Agreement shall serve to void NETRONIX's entitlement to timely payment for properly performed work or suitably stored material, nor void any of NETRONIX's rights under Mechanics' Lien Laws. Any disputed invoice amount shall be promptly resolved by senior management of the parties, and once resolved, shall be paid by Customer within ten days of the date of resolution. If NETRONIX's invoice is not paid within 30 days of its submission to Customer, it is considered delinquent and a penalty of 1.50% (of the total invoice) per month shall be assessed until the delinquent amount is paid in full. If a delinquent invoice is forwarded to collections, Customer agrees to pay any collection fees associated with the collection of delinquent invoices, and the amount of the original invoice. All late payments shall bear interest at the rate of 1.50% at the time payment is due. Nothing in this Agreement shall be construed to require NETRONIX to continue performance of work if Customer fails to timely pay for properly performed work or stored materials. NETRONIX retains title to all equipment until installation is complete and reserves the right to retake possession of the same or any part thereof at the Customer's cost if Customer defaults on its payment obligations. NETRONIX does not accept any back charges that have not previously been agreed to in writing.

14. Taxes: The Pricing of this Agreement includes estimated sales, use, excise, or other similar taxes, required by federal, state, or local law. Customer shall pay taxes at the current tax rate at the date of invoice. Alternatively, the Customer may provide NETRONIX with acceptable tax exemption certificates. If Customer pays Netronix from outside of the U.S., then Customer agrees to pay all applicable withholding taxes, whether or not included in this Proposal or subsequent work authorizations.

15. Parking and Storage: Customer shall furnish and make available to NETRONIX, at the site reasonable storage and parking facilities, and convenient delivery access to our work.

16. Scheduling, Hours and Delays: The schedule of any other contractors involved in this project shall be made in consultation with NETRONIX, and unless otherwise agreed to, shall provide time for NETRONIX to perform our work on an 8-hour day, 40-hour week basis. This Agreement does not include any provision for Netronix to perform overtime work for delays not caused by Netronix. An additional charge shall be made for any mutually agreed upon overtime. NETRONIX shall not be responsible for delays or defaults that are occasioned by causes of any kind that are beyond NETRONIX's control, including but not limited to the acts, omissions, delays or defaults of Customer, architects, owners, contractors, subcontractors and other third parties, civil disorders, labor disputes, fires, conditions of the premises, and Acts of God. NETRONIX shall be entitled to equitable adjustments for delays caused by any reason beyond NETRONIX's control.

17. Materials: If the materials or equipment included in this Agreement become temporarily or permanently unavailable for reasons beyond the control and without the fault of NETRONIX, then in the case of such temporary unavailability, the time for performance of the work shall be extended to the extent thereof, and in the case of permanent unavailability, NETRONIX shall (a) be excused from furnishing said materials or equipment, and (b) be reimbursed by Customer for the difference between the cost of

the materials or equipment permanently unavailable and the cost of a reasonably available substitute therefore.

18. **Insurance:** Insurance coverage in excess of NETRONIX's standard limits will be furnished when requested and required. No credit will be given, or premium paid by NETRONIX for insurance afforded by others.

19. **Indemnity:** Each party shall indemnify and hold harmless the other party, from and against claims, damages, losses and expenses, arising out of or resulting from the performance of the Work, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by the negligent acts or omissions of the indemnifying party, their other contractors or subcontractors, or anyone directly or indirectly employed by or anyone for whose acts they may be liable.

20. **Disputes:** In the event of an unresolved dispute, the parties shall first engage in good-faith mediation for 30 days. If mediation fails, the parties agree to participate in binding arbitration with a neutral arbitrator chosen by Netronix. The laws of the state of California shall govern this Agreement, and the venue of any dispute resolution shall be Santa Clara County, California. The prevailing party shall be entitled to reasonable attorney's fees incurred in arbitration.

21. **NDAA Section 889 Compliance.** By execution of this Agreement, each party represents and warrants that it is in compliance with the National Defense Authorization Act (NDAA) Section 889, as amended, and does not use any equipment, system, or service that uses any covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, as defined. Neither party shall have any liability under this section for the use of any covered telecommunications equipment or services that, at the time of delivery or installation hereunder are lawful, but subsequently are banned.

22. **Occupational Safety and Health:** The parties hereto agree to notify each other immediately upon becoming aware of an inspection under, or any alleged violation of the Occupational Safety and Health Act relating in any way to the project or project site.

23. **Entire Agreement:** This Agreement, upon acceptance, shall constitute the entire agreement between the parties and supersedes any prior representations or understandings. Any terms contained in a Customer's PO or other authorizing document that are different or conflict with those in this Agreement shall be void and have no effect. Except as otherwise provided herein, modifications to this Agreement must be signed by both parties.

By signature below, the parties execute this Agreement, effective as of the date of last signature.

BME ELECTRICAL CONSTRUCTION, INC.
Netronix Integration, Inc.

Scott Jarrett

Name:	Name: Scott Jarrett
Title:	Title: ACCOUNT EXECUTIVE
Date:	Date: 8/9/2021

W. A. THOMAS CO., INC

2356 Pacheco Blvd
Martinez, CA 94553

Telephone (925) 228-9600
FAX (925) 228-6932

Biological Sciences B2100 Building Annex
Chabot College
25555 Hesperian Blvd., Hayward CA 94545

WATCO Job No. 518

CHANGE ESTIMATE No. 17302.1

2/24/2022
Revised

Item	Hrs	Material / Equip.	Labor	Subcontractor	Total
Change Description:					
Cost to revise fire sprinkler support at greenhouse per RFI# 562.2 response					
Breakdown of Estimated Subcontractor Costs:					
				$0	$0
Marquee Fire Protection COR# 10 dated 9/27/2021, revised 2/23/2022				$1,165	$1,165
					$0
				$0	$0
Qualifications: Price for itemized work only listed on subcontractor quotation. Overtime excluded. Any extra work not noted or unforseen conditions will be priced separately.				$0	$0
				$0	$0
W. A. Thomas Co., Inc. Work				$0	$0
			$0	$0	$0
				$0	$0
				$0	$0
				$0	$0
Subtotal		$0	$0	$1,165	$1,165
Tax 10%					$0
15% on WATCO work					$0
5% on Subcontractor Costs ($1040)					$52
1% Bond (GC)					$12
Total Lump Sum					**$1,229**

Additional Time: None

This quotation is based solely on the direct cost elements involved for the change noted and does not include any evaluation of the impact or the subject change upon the contract time or any costs related thereto. This quotation is only for the work described herein.

CE 17 302.1
518

MARQUEE FIRE PROTECTION
A Pye Barker Company

710 West Stadium Lane
Sacramento, CA 95834

DATE: February 23, 2022

PROJECT: CHABOT COLLEGE -
Biological Science Bldg Annex

JOB ADDRESS: 25555 Hesperian Drive
Hayward, CA

TO: W.A. Thomas Co., Inc.
2356 Pacheco Blvd
Martinez, CA 94553

Attn: Jim Smith

Subcontract No.: 518
Marquee Job No.: 1218-761

REVISED CHANGE ORDER REQUEST # 10

ORIGINAL CONTRACT AMOUNT	$	340,200
Change Order #1		VOID
Approved Change Order #2		(2,704)
Approved Change Order #3		864
Approved Change Order #4		127
Approved Change Order #5		2,866
Approved Change Order #6R		8,239
Approved Change Order #7		17,474
Approved Change Order #8R		8,491
Approved Change Order #9		1,961
PENDING CONTRACT AMOUNT	**$**	**377,518**

REQUESTED CHANGE ORDER DESCRIPTION:

Replace the fire sprinkler hangers in the Greenhouse per RFI 562.2.

MATERIAL:

6	Tolco beam clamps	@ $ 9.40	$ 56		
SUBTOTAL MATERIAL			$ 56		
8.750%	Sales Tax		5		
				TOTAL MATERIAL	$ 61

LABOR:

8	hours Sprinkler Fitter labor	@ $ 122.32	$ 979		
SUBTOTAL LABOR			$ 979		
				TOTAL LABOR	$ 979

SUBTOTAL MATERIAL and LABOR	$	1,040
12% Overhead	$	125
Amount this Change Order	$	1,165
NEW PENDING CONTRACT AMOUNT	**$**	**378,683**

Dated: _____

Approved By: _____

_____
(Title)

MARQUEE FIRE PROTECTION

Requested by: Dan Awtrey (KH)
Dan Awtrey, Project Manager

RFI Module

View RFI

Distribute RFI Close Window

Chabot-Las Positas CCD
Building 2100 Biology Annex

Request for Information

RFI #:	**RFI-0562B**			**Contractor's Ref #:**	
Title:	Sprinkler Pipe & Shade Conflict			**Contract #:**	WA Thomas Constr
Financial Project #:	552850			**Date:**	7-12-2021 06:25
From:	B2100-GC	Bill Luce	WA Thomas	**Reply Needed By:**	7-26-2021 06:24
BIC:				**Assigned Date:**	
Status:	Closed			**Location:**	Green House
				Document/Drawing Reference:	Attached

Question:

"The proposed detail issued with RFI 562.1 will still obstruct the roller shade from full travel and allow sunlight into the green house. As previously discussed anything protruding above the flange on the lower side of the beam will obstruct the travel of the roller shade. See attached pictures showing the conflict of clamping to the lower side of the beam flange. The upper side of the beam flange is not an issue because the shade cloth is secured in place at the upper side of the web. Please advise.

Answer:

See proposed detail from FPEOR attached.

☐ Answered In Contract Documents

Additional Info:

Cost Impact: No
Schedule Impact: No
CO Reference:

Attachments:

None

Comments:

None

History:

Created by B2100-GC Bill Luce on 7/12/2021 6:24:37 AM
Reviewed-Routed Forward by B2100-CM Eric Barger on 7/12/2021 9:10:22 AM
Reviewed-Routed Forward by B2100-Architect Micheal Myers on 7/20/2021 10:42:48 AM
Answered-Routed to Initiator by B2100-CM Eric Barger on 7/20/2021 10:45:40 AM

W. A. THOMAS CO., INC

2356 Pacheco Blvd
Martinez, CA 94553

Telephone (925) 228-9600
FAX (925) 228-6932

Biological Sciences B2100 Building Annex
Chabot College
25555 Hesperian Blvd., Hayward CA 94545

WATCO Job No. 518

CHANGE ESTIMATE No. 17308.2

2/23/2022
Revised

Item	Hrs	Material / Equip.	Labor	Subcontractor	Total
Change Description:					
Furnish and Install overhead door stops per RFI# 569.1 response					
Breakdown of Estimated Subcontractor Costs:					
				$0	$0
City Door & Hardware proposal dated 10/7/2021		$1,312		$0	$1,312
					$0
City Door & Hardware proposal dated 8/24/2021		$586		$0	$586
Qualifications: Price for itemized work only listed on subcontractor quotation. Overtime excluded. Any extra work not noted or unforseen conditions will be priced separately.				$0	$0
				$0	$0
W. A. Thomas Co., Inc. Work				$0	$0
WATCO installation - Tag dated 11/4/2021	6.5		$680	$0	$680
WATCO labor credit for not installing 4 each single hole dome stops	-1		($105)	$0	($105)
				$0	$0
				$0	$0
Subtotal		$1,898	$575	$0	$2,473
Tax 10%					$0
15% on WATCO work					$371
5% on Subcontractor Costs					$0
1% Bond (GC)					$28
Total Lump Sum					**$2,872**

Additional Time: None

This quotation is based solely on the direct cost elements involved for the change noted and does not include any evaluation of the impact or the subject change upon the contract time or any costs related thereto. This quotation is only for the work described herein.

RFI Module

View RFI

Distribute RFI Close Window

Chabot-Las Positas CCD
Building 2100 Biology Annex

Request for Information

RFI #:	RFI-0569A			**Contractor's Ref #:**	
Title:	Floor Stops & Tripping Hazards			**Contract #:**	WA Thomas Constr
Financial Project #:	552850			**Date:**	9-27-2021 07:19
From:	B2100-GC	Bill Luce	WA Thomas	**Reply Needed By:**	10-12-2021 07:19
BIC:				**Assigned Date:**	
Status:	Closed			**Location:**	Multiple Locations
				Document/Drawing Reference:	Attached

Question:

"Please see attached pictures and RFI 569: The direction per. RFI 569 was to use a FS434 door stop for doors, 2156A,2156B,2157A, & 2157B. The architects pictures inserted in RFI 569 show these floor stops would be located 9-10" off the wall. Floor stops are typically installed 4"- from a wall so as not to create a tripping hazard. These stops would all be located below wall devices such as light switches, marker boards, or T-stats, and in the path of travel. On the first floor, these stops would be located in the zone of radiant tubing. After receiving the FS434's and dry fitting them it is clear a floor stop is not the answer. Please advise as to what model of stop is to be used for these doors.

Answer:

Provide Glynn-Johnson 90S overhead stop (surface mounted) on push side of door 2156A, 2156B, 2167A, 2157B. See attached detail, product data, and installation instructions.
D.Rausch, HED 10/5/21

☐ Answered In Contract Documents

Additional Info:

Cost Impact: No
Schedule Impact: No
CO Reference:

Attachments:

None

Comments:

None

History:

Created by B2100-GC Bill Luce on 9/27/2021 7:19:28 AM
Reviewed-Routed Forward by B2100-CM Eric Barger on 9/27/2021 7:35:45 AM
Reviewed-Routed Forward by B2100-Architect Anna MacDougall on 10/5/2021 11:43:42 AM
Answered-Routed to Initiator by B2100-CM Eric Barger on 10/6/2021 12:07:18 AM

W. A. THOMAS CO., INC

2356 Pacheco Blvd
Martinez, CA 94553

Telephone (925) 228-9600
FAX (925) 228-6932

Biological Sciences B2100 Building Annex
Chabot College
25555 Hesperian Blvd., Hayward CA 94545

WATCO Job No. 518

CHANGE ESTIMATE No. 17310 11/1/2021

Item	Hrs	Material / Equip.	Labor	Subcontractor	Total
Change Description:					
Furnish and Install Opaque Film at Door Window Glass					
Breakdown of Estimated Subcontractor Costs:					
				$0	$0
Window Innovations proposal invoice dated 11/01/21				$250	$250
					$0
				$0	$0
Qualifications: Price for itemized work only listed on subcontractor quotation. Overtime excluded. Any extra work not noted or unforseen conditions will be priced separately.				$0	$0
				$0	$0
W. A. Thomas Co., Inc. Work				$0	$0
			$0	$0	$0
				$0	$0
				$0	$0
				$0	$0
Subtotal		$0	$0	$250	$250
Tax 10%					$0
15% on WATCO work					$0
5% on Subcontractor Costs ($250)					$13
1% Bond (GC)					$3
Total Lump Sum					**$266**

Additional Time: none

This quotation is based solely on the direct cost elements involved for the change noted and does not include any evaluation of the impact or the subject change upon the contract time or any costs related thereto. This quotation is only for the work described herein.

518

Window Innovations Inc
230 Eagle lane
Brentwood, CA 94513 US
+1 9256346008
info@windowinnovationsinc.com

INVOICE

BILL TO
Vanir Construction Management
180 Montgomery Street
San Francisco, CA 94104

SHIP TO
Chabot College
25555 Hesperian Blvd
Hayward, CA 94545

INVOICE # 800138
DATE 11/01/2021
DUE DATE 11/30/2021
TERMS Due on Completion

TRACKING NO.	SALES REP	CONTACT
83021CC	Barbara Baker	Eric Barger 510-876-6029

DATE	ACTIVITY	AMOUNT
10/25/2021	INSTALLATION OF SOLARGARD MODERN MILK GLASS ON (2) DOORS.	250.00

"Under the Mechanics' Lien Law (Calif. Code of Civil Procedure Section 1181 ET Seq.,) Any Contractor, Subcontractor,Laborer, Supplier, or other person who helps to improve your property but is not paid for his work or supplies, has the right to enforce clam against your property. This means that , after a court hearing, your property could be sold by a court officer and the proceeds of the sale used to to satisfy the indebtedness. This can happen even if you have paid your own contractor in full, if the subcontractor, laborer or supplier remains unpaid."
INVOICES NOT PAID BY MATURITY ARE SUBJECT TO A MONTHLY FINANCE CHARGE

BALANCE DUE **$250.00**

Chabot-Las Positas Community College District

Construction Field Directive

To: W.A. Thomas Co., Inc. **Field Dir. 109**
Project: Biological Sciences B2100 Building Annex **Issue: 09/29/2021**

Description of Work:

- Provide all labor, materials, and equipment to install Solar Gard-Modern Milk Glass window tint, or equal on doors 2172A and 2170B .

Reason for Directive:

- Per UCSF Willed Body Program the cadaver room door vision lite must be tinted for privacy, and as requested for security and safety at the Lab Prep area.

Direction:

☐ Proceed with work on T&M Basis; submit T&M back-up daily.
Cost not to exceed $.00 estimate
Contractor shall notify Construction Manager when costs reach 80% of the Not to exceed amount.

☐ Provide Credit in the amount of $ (XX) for the additional service provided by the Architect as a result of non-conforming work.

☒ Proceed with work, submit signed T&M back-up daily, unless PCO is provided prior and approved.
The District reserves all rights and remedies under the contract.

☐ Proceed with work, work considered in scope of contract.

☐ Proceed with the work in accordance with the proposal CE xx dated xx xx, 2021 in the amount of $ xxx.00. x-day Time Extension.
The work will be added to the contract by change order only when and not until any contract time adjustment has been agree to.
The District reserves all its rights and remedies under the contract.

By _____ 9/29/2021
VanirCM, Inc. Construction Manager Date

By _____ 09/30/2021
Chabot College Campus Project Planner/Mgr. Date

W. A. THOMAS CO., INC

2356 Pacheco Blvd
Martinez, CA 94553

Telephone (925) 228-9600
FAX (925) 228-6932

Biological Sciences B2100 Building Annex
Chabot College
25555 Hesperian Blvd., Hayward CA 94545

WATCO Job No. 518

CHANGE ESTIMATE No. 17311.1 · 11/15/2021
Revised

Item	Hrs	Material / Equip.	Labor	Subcontractor	Total
Change Description:					
Install Owner supplied Ice Maker per RFI# 571 and CFD #110					
Breakdown of Estimated Subcontractor Costs:					
				$0	$0
Harris Bay Area proposal #491803 - 43 dated 11/3/2021				$2,730	$2,730
					$0
				$0	$0
Qualifications: Price for itemized work only listed on subcontractor quotation. Overtime excluded. Any extra work not noted or unforseen conditions will be priced separately.				$0	$0
				$0	$0
W. A. Thomas Co., Inc. Work				$0	$0
			$0	$0	$0
				$0	$0
				$0	$0
				$0	$0
Subtotal		$0	$0	$2,730	$2,730
Tax 10%					$0
15% on WATCO work					$0
5% on Subcontractor Costs ($2371)					$119
1% Bond (GC)					$28
Total Lump Sum					**$2,877**

Additional Time: None

This quotation is based solely on the direct cost elements involved for the change noted and does not include any evaluation of the impact or the subject change upon the contract time or any costs related thereto. This quotation is only for the work described herein.

HARRIS BAY AREA, LLC.

99 SOUTH HILL DRIVE BRISBANE, CA 94005
PHONE: (415) 468 5000 FAX: (415)468-4579
CONTRACTOR'S LIC # 1060887

11/03/21

W.A. Thomas Co., Inc.
2356 Pacheco Boulevard
Martinez, CA 94553

ATTENTION: Jim Smith

RE: Chabot College - Biology Sciences B2100 Bldg Annex
Harris CE # 491803-43

SUBJECT: T&M - CFD #110 Ice Maker Hook Up WATCO CE17311

Dear Jim,

Please find attached our labor and material costs as described above.

The cost for performing the work described above is: **$2,730** .

Please issue a change order for the above amount.

Please note this change may have an impact on the project schedule. The cumulative affect of this change together with other changes is not known at this time, it is being analyzed and will be forwarded when it has been fully ascertained.

Sincerely,

HARRIS BAY AREA, LLC.

John Hohman
Project Manager

JH/so

Attachments

Identified costs, and components thereof, are estimates and may not be actual costs
Harris reserves our rights to assess / evaluate cumulative impact of this change.

HARRIS

11/3/2021

HARRIS BAY AREA, LLC.
CHANGE ESTIMATE SUMMARY
Chabot College - Biology Sciences B2100 Bldg Annex

Change Order Cost Analysis	Estimate	Harris CE # 491803-43	
Material	**Total**		
Piping Material Cost - Attachment A (1)	$358.29		
Sheetmetal Material Cost - Attachment A (2)	$0.00		
Miscellaneous Cost - Attachment C	$97.83		
Consumables	$0.00		
Subtotal	**$456.12**		
+ 10.75% Sales Tax	$49.03		
Subtotal Material	**$505.15**		
Labor Summary - Attachment A	**Total**	**Hours**	**Hourly Rate**
Plumber/Welder/Fitter (Local # 342)	$0.00	0.00	**$140.85**
Plumbing Foreman (Local # 342)	$1,553.30	10.00	**$155.33**
Plumbing General Foreman (Local # 342)	$0.00	0.00	**$162.09**
Sheetmetal Worker (Field) (Local #104)	$0.00	0.00	**$139.56**
Sheetmetal Foreman (Field) (Local # 104)	$0.00	0.00	**$154.39**
Sheetmetal Gen Foreman (Field) (Local # 104)	$0.00	0.00	**$164.28**
Plumbing/Pipefitter Shop	$0.00	0.00	**$140.11**
Plumbing/Pipefitter Shop Foreman	$0.00	0.00	**$155.24**
Sheetmetal Shop	$0.00	0.00	**$139.56**
Sheetmetal Shop Gen Foreman	$0.00	0.00	**$167.03**
Shop Burden	$0.00	0.00	$48.00
Laborer	$0.00	0.00	$74.23
Harris Coordination	$0.00	0.00	**$155.00**
State of California Wage Order #16	$0.00	0.00	**$140.85**
Cartage/Trucking	$270.00	3.00	**$90.00**
Corona Virus Protocol Impact on Daily Production (16%)	$0.00		
Subtotal Labor	**$1,823.30**		
Other Direct Costs	**Total**		
Tool/Equipment Rental - Attachment B	$8.32		
Reproduction Costs	$0.00		
Standard Additional Covid-19 PPE	$30.01		
Subtotal	**$38.33**		
+ 10.75% Sales Tax	$4.12		
Subtotal Other Direct Costs	**$42.45**		
Total (Material, Labor, Other)	**$2,370.91**		
+ 12% Mark-Up	$284.51		
Subtotal	**$2,655.42**		
Subcontractor Costs			
+ Subcontractor's Cost	$ -		
+ Subcontractor 5% Markup	$0.00		
Subtotal	**$2,655.42**		
+ 0.8% Bond	$21.24		
+2% Warranty	$53.11		
Total	**$2,729.77**		

This Change Order does not include any amounts for changes in the work sequence, delays, disruptions, consequential cost impacts and/or impact costs due to the cumulative effect of this change order with other changes or for any other reasons. Identified costs, and components thereof, are estimates and may not represent actual costs.

Harris reserves our rights to assess / evaluate cumulative impact of this change.

Estimate is only valid for 30 days from date of submission.

Attachment A(1) - Piping Material/Labor Breakdown

Harris CE # 491803-43

Qty	Size	Description	Unit Price	Price Total	Hour Each	Total Hour
		Tag dated 10/19/21				
		Foreman @ 10 hours				10.0
20	1/2"	ft, TYPE L COPPER TUBE	$ 5.68	$ 113.60		
1	1/2"	MILWAUKEE ULTRA PURE LEAD FREE THREADED BALL VALVE	$ 79.68	$ 79.68		
1	1/2"	C x MIP COPPER MALE ADAPTER	$ 12.51	$ 12.51		
3	1/2"	C x C COPPER 90	$ 6.07	$ 18.21		
1	1 1/2" x 1 1/2" x 1/2"	C x C x C COPPER REDUCING TEE	$ 46.99	$ 46.99		
4	5/8"	CUSH CLAMP	$ 8.01	$ 32.04		
1	3/4"	C x MIP COPPER MALE ADAPTER	$ 20.93	$ 20.93		
3	3/4"	C x C COPPER 90	$ 13.38	$ 40.14		
3	3/4"	ft, TYPE L COPPER TUBE	$ 9.26	$ 27.78		
1	7/8"	CUSH CLAMP	$ 8.44	$ 8.44		
1	1/2" x 4"	BRASS NIPPLE	$ 10.23	$ 10.23		
1	3/8" x 3/8"	FEMALE FLARE x MALE COMPRESSION ADAPTER	$ 10.97	$ 10.97		
		Subtotal		$ 421.52		10.00
		Less: 15% Discount on Materials		$ (63.23)		
		** Non-Discountables				
		TOTAL		**$ 358.29**		**10.00**

ATTACHMENT B

Attachment B - Equipment Rental				Harris CE # 491803-43
Item	**Term**	**Quantity**	**Price/Unit**	**Total Cost**
TRUCK	DAYS	1.25	$206.53	$258.16
CORDLESS DRILL	DAYS	1.00	$8.32	$8.32
Deduct: Truck Cost (To be billed under Harris CO # 491803-14)				**($258.16)**
Total				**$8.32**

Identified costs, and components thereof, are estimates and may not represent actual costs.

ATTACHMENT C

Attachment C - Miscellaneous Material			Harris CE # 491803-43
Item	Quantity	Cost/Each	Total
Pipe Markers @ $3.00 per 10' of Pipe			
Silver Solder J.W. Harris Stay Silv 15 1#			
Solder	1.00	$40.40	$40.40
Flux	1.00	$11.43	$11.43
B-Tank	1.00	$15.00	$15.00
Pipe Dope	1.00	$23.49	$23.49
PVC Glue			
PVC Primer			
Teflon Tape	1.00	$7.51	$7.51
Vic Lube			
Oxygen Refills			
Acetylene Refills			
Blueprint Costs			
Gasoline			
Test Plugs			
Welding Rod			
Trench Plate Rental			
Total			**$97.83**

Identified costs, and components thereof, are estimates and may not represent actual costs.

HARRIS
99 SOUTH HILL DRIVE
BRISBANE, CA 94005
O: 415.468.5000

AUTHORIZATION FOR THE PERFORMANCE OF EXTRA WORK/EXTRA WORK REPORT

Job Name: Chabot College Ice Maker Hookup CFD#110 Harris CO #: HBA #491803-43
Date: 10/19/2021

This document will confirm your authorization for HARRIS to proceed and complete the work hereinafter described, for which you will pay HARRIS costs plus appropriate markup for profit and overhead as delineated below for each extra work order. This authorization shall supercede any conflicting provisions.

DESCRIPTION OF WORK:

Time includes job review and ordering of materials. Installed 20' of 1/2" copper connecting to 1 1/2" CW service in the mechanical room. Installed shut off valve, water filter system (owner supplied) and drain connection to floor sink.

REQUESTED BY: WATCO, Chabot College
GENERAL CONTRACTOR'S ORDER #: CE17311
WORK COMPLETE: [✓] YES [ ] NO

MATERIALS USED (Check off then list):

[✓] PIPE	[✓] FITTINGS	[✓] VALVES	[ ] HANGER ASSEMBLY
[✓] SOLDER	[ ] OXY/GAS	[✓] TEFLON TAPE	[✓] PIPE DOPE
[✓] FLUX	[✓] B TANK	[ ] WELDING ROD	[ ] UNISTRUT

LIST MATERIALS (Quantity, Size, Description):

20') 1/2" Type L Copper Tube
1) 1/2" T x T Ball Valve
1) 1/2" Copper MIP x C Adapter
3) 1/2" C x C Copper 90
1) 1 1/2" x 1 1/2" x 1/2" C x C x C Copper Tee
4) 5/8" Cush Clamps
1) 3/4" Copper MIP x C Adapter
3) 3/4" C x C Copper 90
3') 3/4" Type L Copper Tube
1) 7/8" Cush Clamp
1) 1/2" x 4" Brass Nipple
1) 3/8" Female Flare x Male Compression Adapter

STANDARD EQUIPMENT:

[ ] BANDSAW	[ ] ELEC. SAW	[ ] PIPE THREAD.	[ ] TAMPER
[ ] BACKHOE	[ ] GALS. OF GAS	[ ] ROTOHAMMER	[ ] TEST OUTFIT
[✓] CORDLESS DRILL	[ ] GRADALL	[ ] SCISSOR LIFT	[ ] TRUCK
[ ] DRILL MOTOR	[ ] GRINDER	[ ] SNAP CUTTER	[ ] WELD. MACH.
[ ] OTHER			

LABOR	REGULAR	OT	DT	LABOR	REGULAR	OT	DT
PLUMBER				DETAILER			
FOREMAN	10			CARTAGE			
GEN. FOREMAN				PROJ. MGR.			
LABORER				PROJ. ENG.			
				OPERATING ENG.			

*NOTE: SMALL TOOLS ARE 5% OF LABOR

HARRIS will be compensated for this work as its progress continues, pending the issuance of a formal change order, on the basis of its costs plus markup as reflected in the monthly progress billings.

APPROVALS

General Contractor Supt.

Michael Foster Digitally signed by Michael Foster DN: C=US, E=mfoster@harriscompany.com, O=Harris Company, OU=Harris Bay Area, CN=Michael Foster Date: 2021.10.19 14:56:47-07'00'

Harris Superintendent

Construction Manager

Inspector

GENERAL CONTRACTORS: ALL HARRIS PERSONNEL ARE STRICTLY PROHIBITED FROM PERFORMING EXTRA WORK WITHOUT THE ABOVE APPROVALS. CONTACT YOUR HARRIS PROJECT MANAGER IF YOU HAVE QUESTIONS.

Chabot-Las Positas Community College District

Construction Field Directive

To: W.A. Thomas Co., Inc. **Field Dir. 110**
Project: Biological Sciences B2100 Building Annex **Issue: 09/29/2021**

Description of Work:

- Provide all labor, materials, and equipment to install an Ice Maker water hook and associated piping work in Mechanical Room 3274 (2177)

Reason for Directive:

- District has requested an Ice Maker be installed.

Direction:

☐ Proceed with work on T&M Basis; submit T&M back-up daily.
Cost not to exceed $.00 estimate
Contractor shall notify Construction Manager when costs reach 80% of the Not to exceed amount.

☐ Provide Credit in the amount of $ (XX) for the additional service provided by the Architect as a result of non-conforming work.

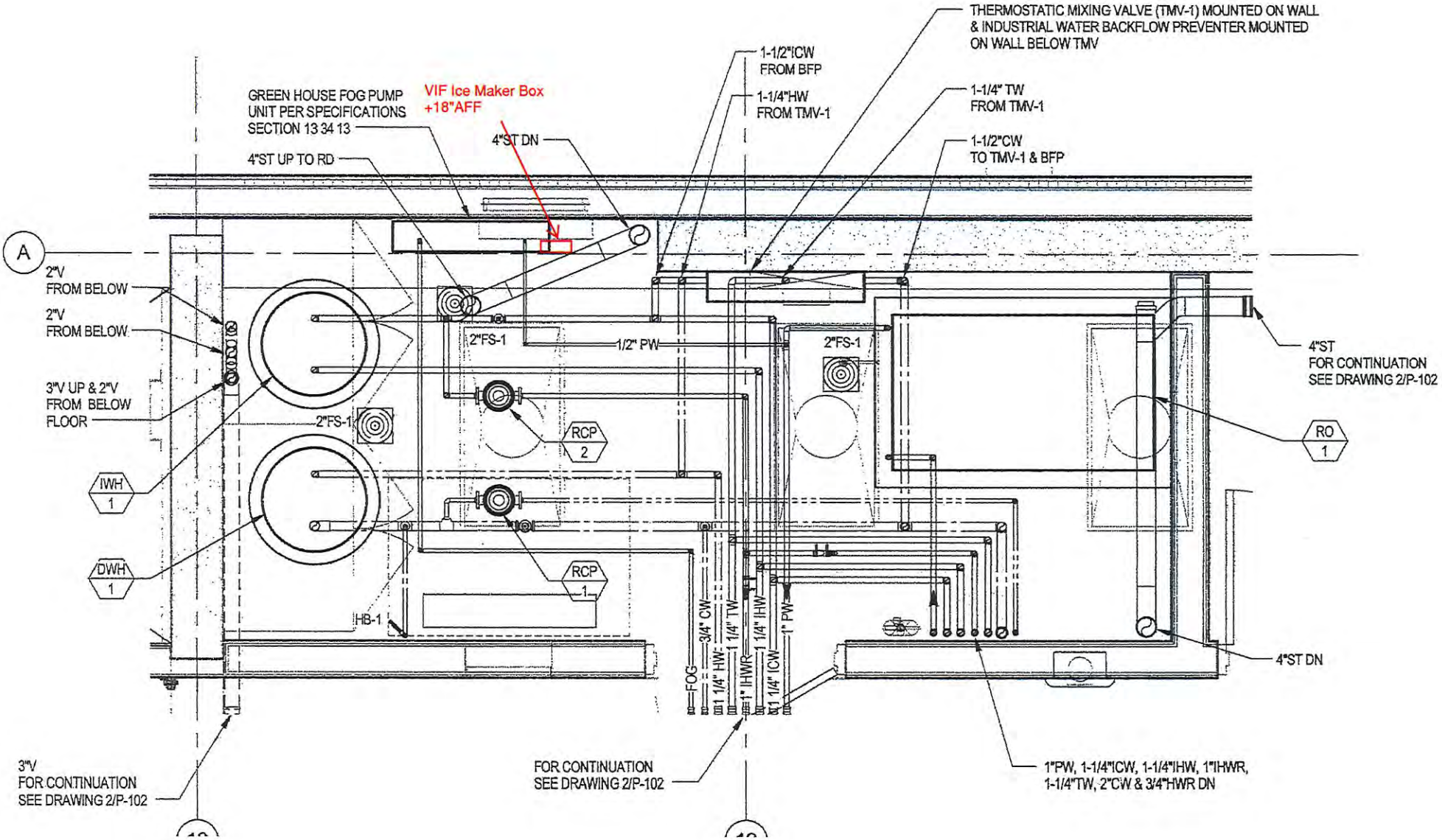
☒ Proceed with work, submit signed T&M back-up daily, unless PCO is provided prior and approved.
The District reserves all rights and remedies under the contract.

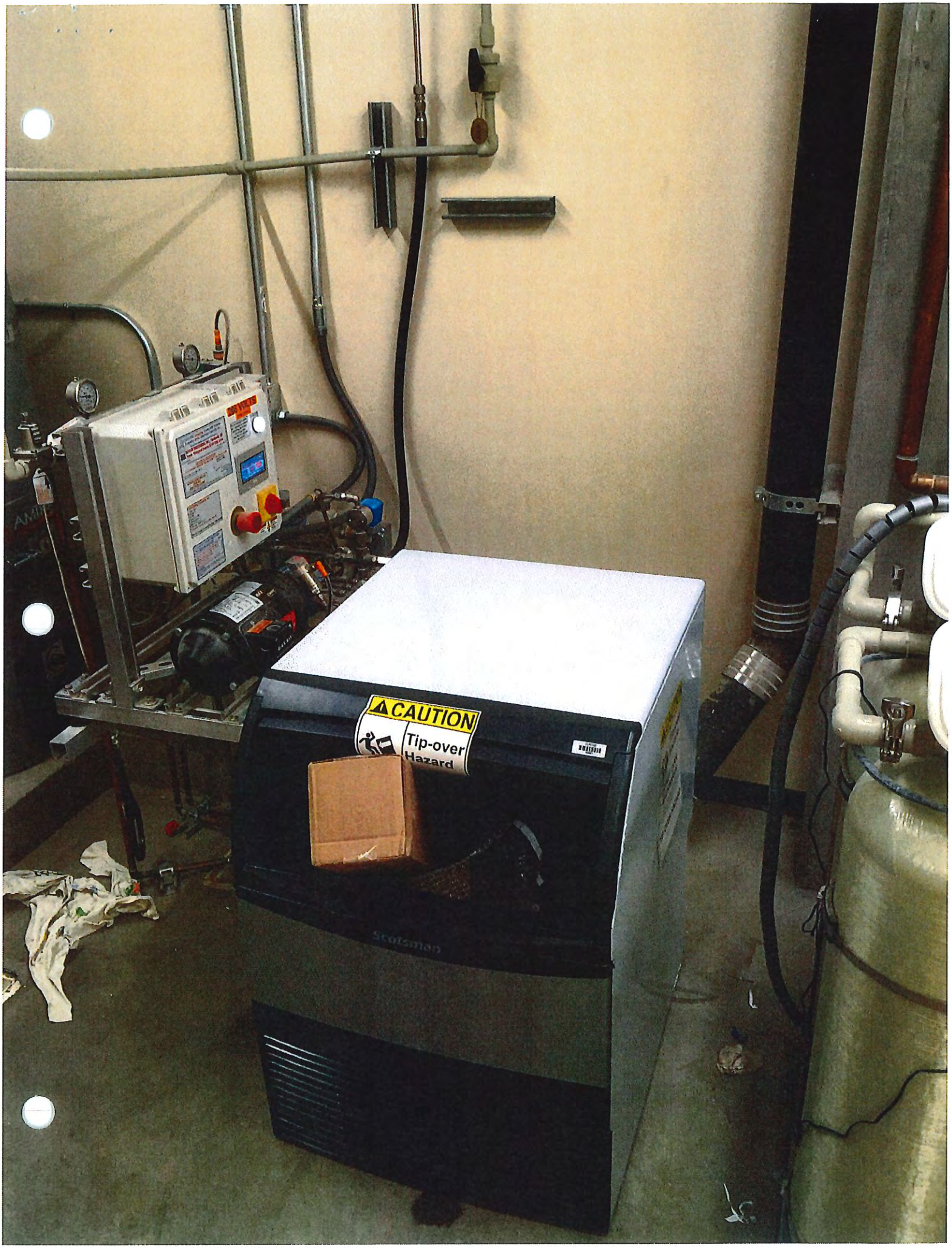
☐ Proceed with work, work considered in scope of contract.

☐ Proceed with the work in accordance with the proposal CE xx dated xx xx, 2021 in the amount of $ xxx.00. x-day Time Extension.
The work will be added to the contract by change order only when and not until any contract time adjustment has been agree to.
The District reserves all its rights and remedies under the contract.

By Eric Bergen — 9/29/2021
VanirCM, Inc. Construction Manager — Date

By [signature] — 09/30/2021
Chabot College Campus Project Planner/Mgr. — Date


THERMOSTATIC MIXING VALVE (TMV-1) MOUNTED ON WALL
& INDUSTRIAL WATER BACKFLOW PREVENTER MOUNTED
ON WALL BELOW TMV
1-1/2"ICW
FROM BFP
1-1/4"HW
FROM TMV-1
1-1/4" TW
FROM TMV-1
1-1/2"CW
TO TMV-1 & BFP
GREEN HOUSE FOG PUMP
UNIT PER SPECIFICATIONS
SECTION 13 34 13
VIF Ice Maker Box
+18"AFF
4"ST DN
4"ST UP TO RD
A
2"V
FROM BELOW
2"V
FROM BELOW
3"V UP & 2"V
FROM BELOW
FLOOR
2"FS-1
1/2" PW
2"FS-1
2"FS-1
RCP
2
RCP
1
IWH
1
DWH
1
HB-1
4"ST
FOR CONTINUATION
SEE DRAWING 2/P-102
RO
1
4"ST DN
FOG
3/4" CW
1 1/4" HW
1 1/4" TW
1" IHWR
1 1/4" IHW
1 1/4" ICW
1" PW
3"V
FOR CONTINUATION
SEE DRAWING 2/P-102
FOR CONTINUATION
SEE DRAWING 2/P-102
1"PW, 1-1/4"ICW, 1-1/4"IHW, 1"IHWR,
1-1/4"TW, 2"CW & 3/4"HWR DN


CAUTION
Tip-over
Hazard
Scotsman

W. A. THOMAS CO., INC

2356 Pacheco Blvd
Martinez, CA 94553

Telephone (925) 228-9600
FAX (925) 228-6932

Biological Sciences B2100 Building Annex
Chabot College
25555 Hesperian Blvd., Hayward CA 94545

WATCO Job No. 518

CHANGE ESTIMATE No. 17312 12/8/2021

Item	Hrs	Material / Equip.	Labor	Subcontractor	Total
Change Description:					
Furnish and Install LCN CUSH Arm at opening 2153D per RFI# 572 response and RFD plumbing punchlist					
Breakdown of Estimated Subcontractor Costs:					
				$0	$0
City Door and Hardware proposal dated 10/13/21		$471		$0	$471
					$0
				$0	$0
Qualifications: Price for itemized work only listed on subcontractor quotation. Overtime excluded. Any extra work not noted or unforseen conditions will be priced separately.				$0	$0
				$0	$0
W. A. Thomas Co., Inc. Work				$0	$0
WATCO installation	2		$238	$0	$238
				$0	$0
				$0	$0
				$0	$0
Subtotal		$471	$238	$0	$709
Tax 10%					$0
15% on WATCO work					$106
5% on Subcontractor Costs					$0
1% Bond (GC)					$8
Total Lump Sum					**$824**

Additional Time: none

This quotation is based solely on the direct cost elements involved for the change noted and does not include any evaluation of the impact or the subject change upon the contract time or any costs related thereto. This quotation is only for the work described herein.

This CE is entitled. RFI #572 Response gave direction to install an LCN CUSH Arm at Door 2153D at Greenhouse to control the door from opening past 90 degrees so that it would not come in contact with adjacent water hose reel.

The itemized costs for the individual LCN CUSH Arm components are reasonable, and consistent with published LCN price lists as confirmed by Allegion.

By: David Rausch, HED
Date: 12/9/2021

CITY DOOR
and hardware

DBA City Lumber & Hardware Inc. | 165 13th Street San Francisco, California 94103
Phone 415.431.0400 | Fax 415.431.0479 | www.citydoor.com

TO:	WA THOMAS	**QUOTE**	RFI 572
ATTENTION:	BILL	**DATED**	10/13/21
EMAIL / FAX:	925-228-9600	**BY:**	CELENA
JOB:	CHABOT COLLEGE B2100 BIO SCIENCE BLDG	**TERMS:**	30 DAYS NET
PER:	RFI 572		

QUANTITY	ITEM		FINISH	EA.	TOTAL
	OPENING 2153D IN HARDWARE GROUP 23 (ALUMINUM STOREFRONT HARDWARE BY OTHERS)				
	ADD LCN CUSH ARM				
1	4040XP-3077SCNS	LCN SPRING CUSH ARM ONLY	ALM	$ 173.40	$ 173.40
1	4040XP-30	LCN CUSH SHOE SUPPORT	ALM	$ 18.70	$ 18.70
1	4040XP-107CUSH	LCN METAL TEMPLATE		$ 241.40	$ 241.40
					$ 433.50
				TAX	$ 37.39
				TOTAL CHANGE ORDER ADD:	**$ 470.89**
	APPROX 3-4 WEEKS FACTORY LEAD TIME				
	ESTIMATE VALID FOR UP TO				
	90 DAYS AFTER PRINTED DATE				

APPROVED BY: _____

DATED: _____

CHANGE ORDER NUMBER: _____

W. A. THOMAS CO., INC.

2356 Pacheco Boulevard
Martinez, CA 94553

Telephone (925) 228-9600
FAX (925) 228-6932

FIELD REQUEST FOR INFORMATION NO.: 572

Eric Barger
Vanir CM.
E-Mail: eric.barger@vanir.com

Date: October 11, 2021
Re: Chabot Bio-Science Annex
Pages Faxed: 1 WATCO Project: 518

Subject: Door 2153D floor stop

Spec. / Drwg: N/A

Contractor: PGC

Info.Req: Please see item #13 in RFD's lab Plumbing punch list. RFD's lab plumbing punch list suggests a door stop for door 2153D. This door is covered under hardware group #23. Hardware group #23 does not provide for a door stop. Due to the location of this door an overhead stop may be required. Please advise.

Appreciably Different Yes No
Urgency: High

Date Information Needed: 10/25/2021

Cost / ScheduleImpact: Yes

Project IOR:

Bill Luce W. A. THOMAS CO. INC.

RESPONSE: Since the door closer is push-side mounted, the simplest solution is to replace the door closer arm with a LCN SCUSH (Spring Cush-n-Stop) arm. See attached product data and Installation Instructions.

By: David Rausch

Response Date: October 13, 2021

Sub Copy:

DSA Approval:

4040XP Series

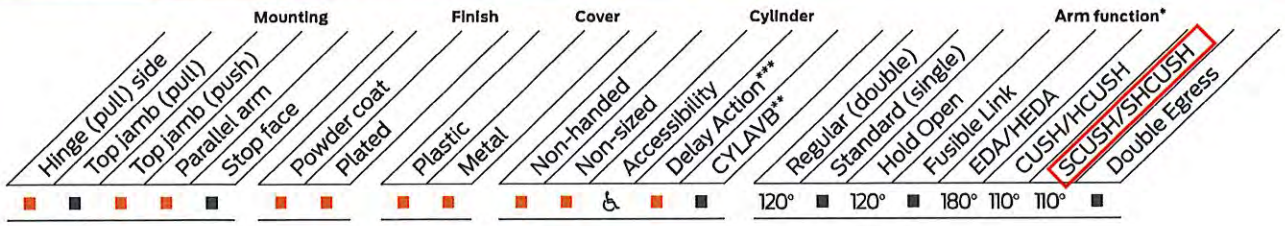
The 4040XP is LCN's most durable and flexible heavy duty closer designed for institutional and other demanding high traffic applications.

Features

Certifications	Grade 1 - ANSI A156.4, UL 10C, ADA, 100 hour salt spray, meets BAA - Buy American Act
Body construction	▪ Cast iron body ▪ Full complement bearing ▪ 1 1/2" diameter piston ▪ Double heat treated pinion journal
Fluid	All weather liquid X fluid
Handing	Non-handed
Templating	Peel-n-Stick templates - 2 1/4" x 5" mounting hole pattern
Size	Adjustable spring size 1-6, includes patented green dial
Warranty	30 years

Cover	▪ Plastic Cover (PC), standard ▪ Metal Cover (MC), optional
Fasteners	Self reaming and tapping screws (SRT)
Mounting	Hinge (pull side), top jamb (push side), parallel arm (push side)
Arms	Regular arm
Finishes/colors/ powder coat	▪ 689 Aluminum ▪ 690 Statuary bronze ▪ 691 Light bronze ▪ 693 Black ▪ 695 Dark bronze ▪ 696 Brass ▪ Custom colors optional ▪ Optional SRI primer - powder coat only ▪ Optional plated finishes

Special templates | Customized installation templates or products may be available to solve non-standard applications. Contact LCN Product Support for assistance.

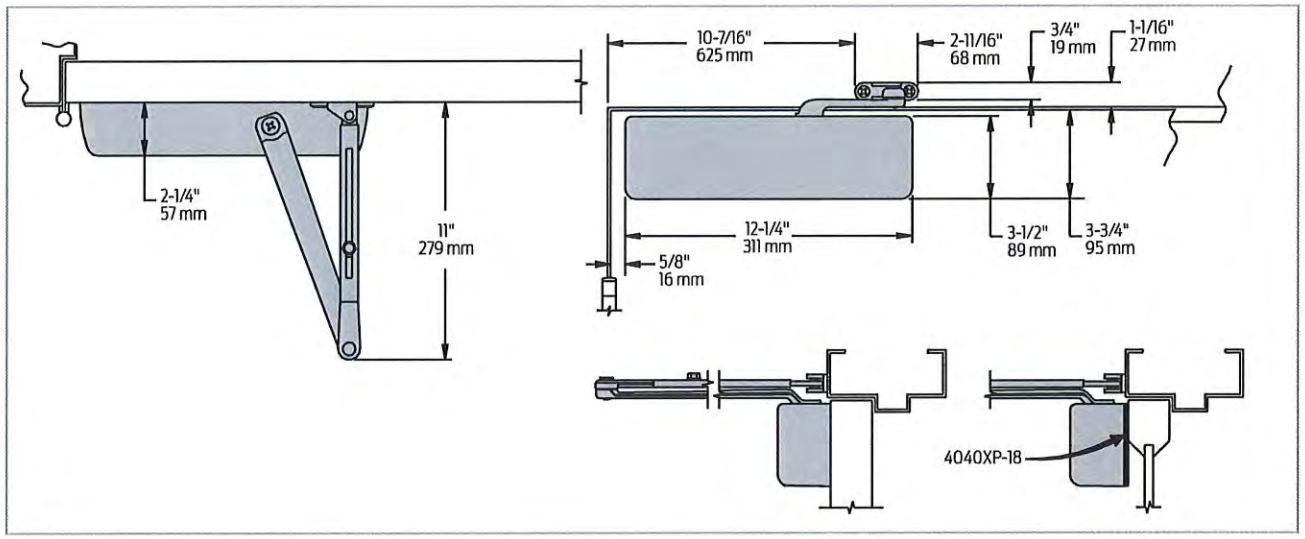


■ Available
■ Not available

♿ Closer available with less than 5.0 lbs. opening force on 36" door.
* Maximum opening/hold open point with standard template.
** Advanced Variable Back Check.
*** Delay feature incorporates standard 4040 cylinder (not XP).

Mounting details

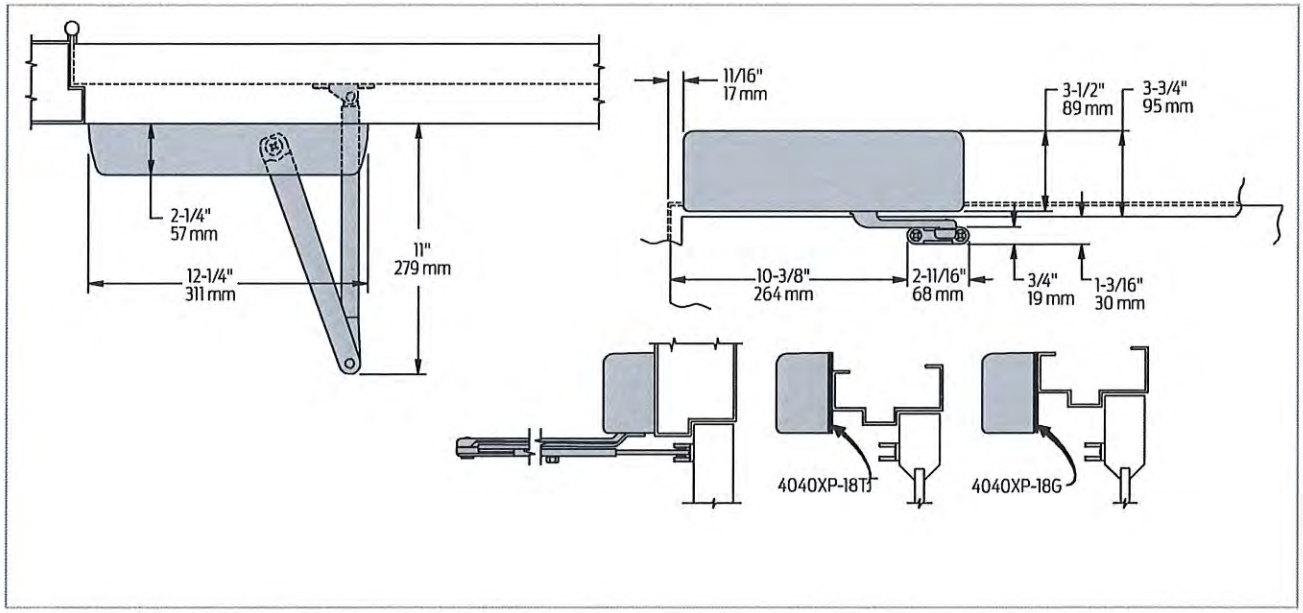
Hinge (pull) side mounting



Butt hinges	Should not exceed 5" (127 mm) in width
Auxiliary stop	Recommended at hold open point or where a door cannot swing beyond 120°
Reveal	Should not exceed 3/4" (19 mm) for Regular or Hold Open Arm
Top rail	Less than 3 3/4" (95 mm) requires plate, 4040XP-18; Plate requires 2" (51 mm) minimum
Clearance	2 3/8" (60 mm) behind door required for 90° installation
Delay action	▪ Incorporates standard 4041 cylinder ▪ Delays closing from 120° to 70° ▪ Delay time adjustable up to approximately 1 minute
Maximum opening	▪ Templating allows up to 120° ▪ Hold open points 90° up to 120° with Hold Open Arm

Mounting details

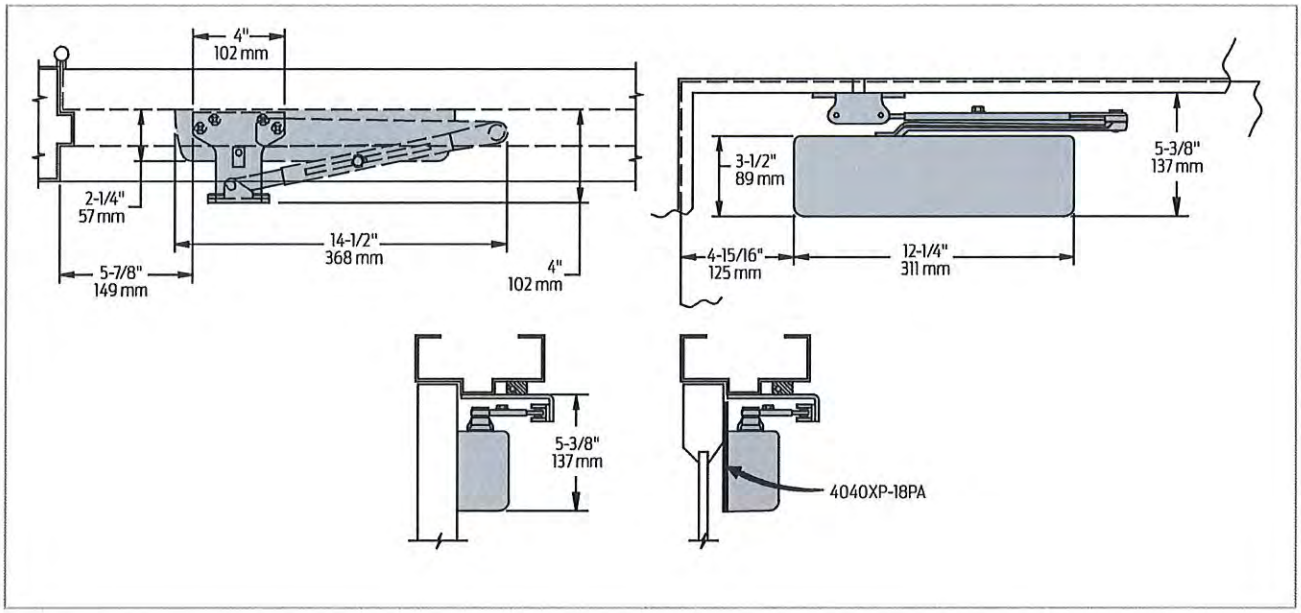
Top jamb (push) side mounting



Butt hinges	Should not exceed 5" (127 mm) in width		
Auxiliary stop	Recommended at hold open point or where a door cannot swing beyond 120°		
Reveal	Arm type	Reveal	Max opening
	Regular Arm	2 9/16"	Up to 120°
	Long Arm	4 13/16"	Up to 120°
	Hold Open Arm	2 9/16"	Up to 120°
	Hold Open Long Arm	8"	Up to 120°
Top rail	▪ Requires 1 1/4" (32 mm) minimum ▪ 2 1/4" (57 mm) minimum with closer on plate, 4040XP-18TJ ▪ 3" (76 mm) minimum with closer on plate, 4040XP-18G		
Head frame	▪ Less than 3 1/2" (89 mm) requires plate, 4040XP-18TJ ▪ With flush ceiling, use plate, 4040XP-18G. Either plate requires 1 3/4" (44 mm) minimum		
Maximum opening	▪ Templating allows up to 120° ▪ Hold open points 85° up to 120° with Hold Open Arm		
Delay action	▪ Incorporates standard 4041 cylinder ▪ Delays closing from 120° to 70° ▪ Delay time adjustable up to approximately 1 minute		

Mounting details

Parallel arm (push) side mounting



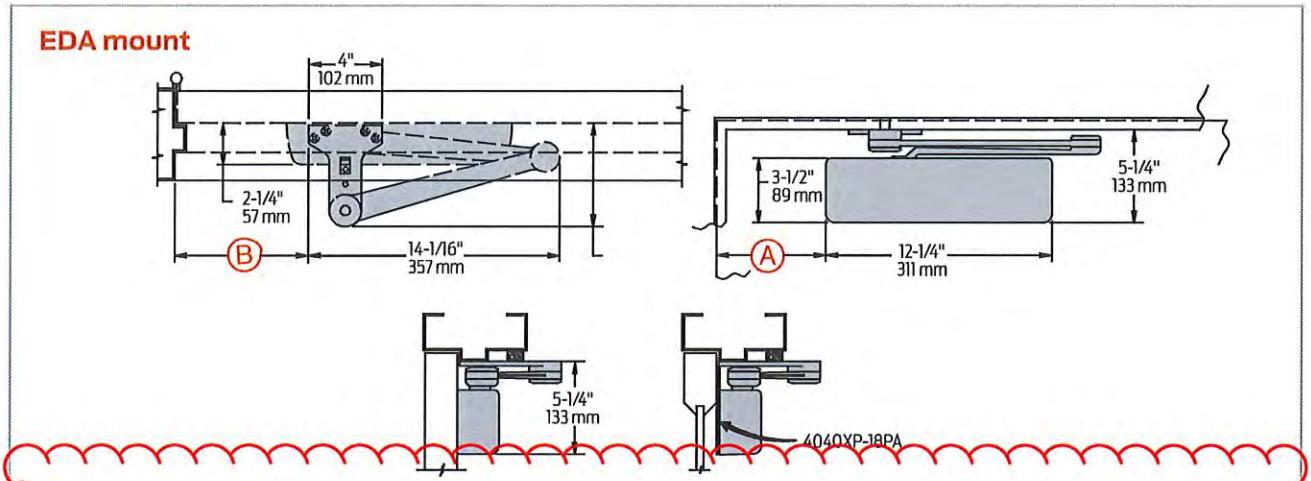
Butt hinges	Should not exceed 5" (127 mm) in width
Auxiliary stop	Recommended at hold open point, where the door cannot swing 180°, or where Cush-n-Stop Arm is not used
Reveal	Should not exceed 7/32" (6 mm)
Top rail	Less than 5 3/8" (137 mm) measured from the stop requires plate, 4040XP-18PA. Plate requires 2" (51 mm) minimum from the stop.
Head frame	Flush or rabetted requires PA shoe adapter, 4040XP-419
Stop width	Minimum 1" (25 mm). CUSH arm requires minimum 1 1/2" (38 mm)
Blade stop	Clearance requires 1/2" (13mm) blade stop spacer, 4040XP-61
Clearance	▪ 4040XP-62PA shoe is 4" (102 mm) from door face ▪ EDA shoe projects 5 1/2" (140 mm) from door face ▪ CUSH shoe projects 6" (152 mm) from door face
Delay action	▪ Incorporates standard 4041 cylinder, without XP cylinder ▪ Delays closing from 120° to 70° ▪ Delay time adjustable up to approximately 1 minute
Maximum opening	▪ 180° opening/hold open points with all except CUSH arms ▪ 110° opening/hold open with CUSH arms

Notes:
- Optional mounting requires PA shoe, 4040XP-62PA for regular or Hold Open Arms
- Add prefix "P" to closer description (eg. P4040XP)
- P4040XP closer includes 4040XP-201 fifth hole spacer to support PA shoe

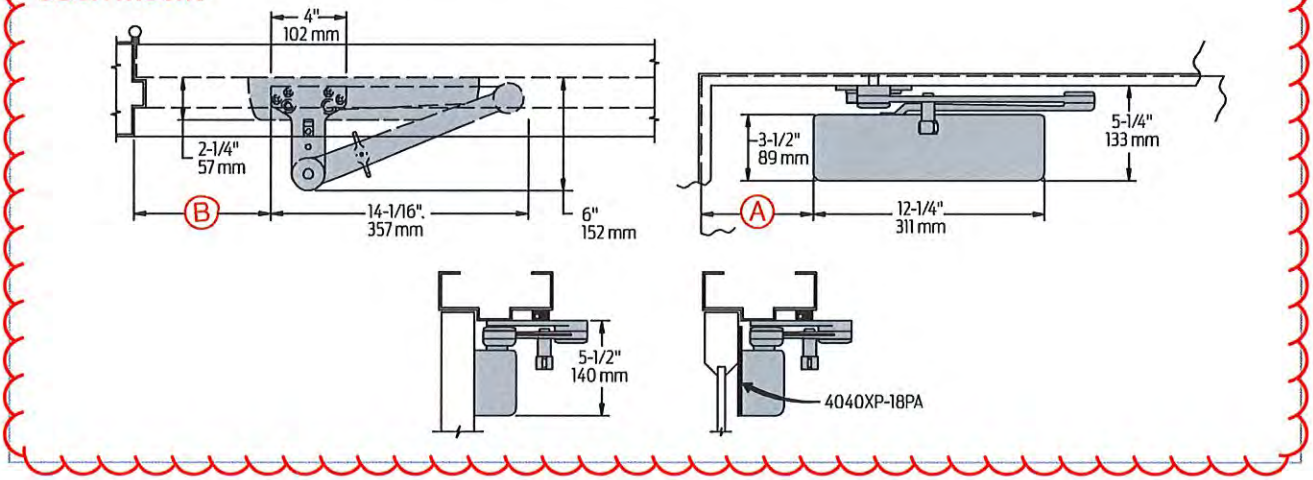
Mounting details

EDA and CUSH mounting

EDA mount



CUSH mount



Clearance	4040XP-62EDA is 5 1/2" (140 mm) from door face; 6" (152 mm) for CUSH	
Head frame	Flush or rabetted requires CUSH flush panel adapter, 4040XP-419	
CUSH Arm	Requires shoe support, 4040XP-30 for fifth screw anchorage where reveal is less than 3 1/16" (78 mm)	
Delay action	▪ Incorporates standard 4041 cylinder, without XP cylinder ▪ Delays closing from maximum opening to; 115° with 180° template, 95° with 110° template, 85° with 100° template, 75° with 90° template (delay time adjustable up to approximately 1 minute)	
Maximum opening	EDA arm can be templated for points at:	CUSH arms can be templated for opening/hold open point at:
	110°: A = 6 3/8" (162 mm) B = 7 3/4" (197 mm)	85°: A = 7 15/16" (202 mm) B = 9 1/8" (232 mm)
	or 180°: A = 2 7/8" (73 mm) B = 4 1/4" (108 mm)	90°: A = 7 3/16" (183 mm) B = 8 1/2" (216 mm)
	Hold open points up to maximum opening with HEDA arm	100°: A = 6 1/16" (154 mm) B = 7 1/4" (184 mm)
		or 110°: A = 5 1/16" (129 mm) B = 6 3/8" (162 mm)

Notes:
- 4040XP Series closers ordered with EDA or CUSH arms include 4040XP-201 fifth hole spacer to support the shoe
- SCUSH stop points are approximately 5° more than templated stop point
- Hold open at templated stop points

Accessories

Cylinders

4040XP-3071
Cast iron cylinder assembly (CYL)
- Non-handed
- Heavy duty

4041-3071 DEL
Delay Action Cylinder (CYLDEL)
- Used for delayed action closing
- Non-handed
- Heavy duty

Covers

4040XP-72
Plastic Cover (PC)
- Non-handed
- Includes 4040XP-54 snap-on cover clip

4040XP-72MC
Metal Cover (MC)
- Handed
- Required for plated finishes and custom powder coat finishes
- Optional

Arms

4040XP-3077
Regular Arm (REGARM)
- Non-handed
- Mounts pull side or top jamb with shallow reveal P4041 closer includes PA shoe, 4040XP-62PA required for parallel arm mounting

4040XP-3077L
Long Arm (LONG)
- Non-handed
- Includes long rod and shoe, 4040XP-79LR for top jamb mount
- Optional

4040XP-3077ELR
Extra Long Arm (XLONG)
- Non-handed
- Includes extra long rod and shoe, 4040XP-79ELR for top jamb mount with deep reveal
- Optional

4040XP-3049
Hold Open Arm (H)
- Non-handed
- Mounts pull side or top jamb with shallow reveal, hold open adjustable shoe
- 4040XP closer includes 4040XP-62PA shoe required for parallel arm mounting
- Optional

4040XP-3049L
Hold Open Long Arm (HLONG)
- Non-handed
- Includes long head and tube, 4040XP-3048L for top jamb mount
- Optional

4040XP-3077EDA
Extra Duty Arm (EDA)
- Non-handed
- Features forged, solid steel main and forearm for potentially abusive installations
- Optional

4040XP-3049EDA
Hold Open Extra Duty Arm (HEDA)
- Handed
- Parallel arm features forged, solid steel main and forearm for potentially abusive installations
- Hold open function is adjusted at the shoe
- Optional

4040XP-3077EDA/62G
Extra Duty Arm with 62G Thick Hub Shoe (EDAW62G)
- Non-handed
- Features forged, solid steel main and forearm for potentially abusive installations
- 62G shoe provides additional blade stop clearance
- Optional

4040XP-3049EDA/62G
Hold Open Extra Duty arm with 62G Thick Hub Shoe (HEDA62G)
- Handed
- Features forged, solid steel main and forearm for potentially abusive installations
- 62G shoe provides additional blade stop clearance; hold open function is adjusted at the shoe
- Optional

4040XP-3077CNS
Cush-n-Stop Arm (CUSH)
- Non-handed
- Features solid forged steel main arm and forearm with stop in soffit shoe.
- Optional

4040XP-3049CNS
Hold Open Cush-n-Stop Arm (HCUSH)
- Non-handed
- Hold open function with templated stop/hold open points
- Handle controls hold open function
- Optional

Accessories

Arms (cont.)

4040XP-3077SCNS
Spring Cush-n-Stop Arm (SCUSH)
- Non-handed
- For potentially abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe
- Optional

4040XP-3049SCNS
Spring Hold Open Cush-n-Stop Arm (SHCUSH)
- Non-handed
- For potentially abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe
- Handle controls hold open function
- Optional

Installation accessories

4040XP-18
Plate
- Required for hinge side mount where top rail is less than 3 3/4" (95 mm)
- Requires minimum 2" (51 mm) minimum top rail

4040XP-18G
Plate
- Locates top jamb mounted closer flush with top of head frame face in flush ceiling condition
- Requires 1 3/4" (44 mm) minimum head frame

4040XP-18TJ
Plate
- Centers top jamb mounted closer vertically on head frame where face is less than 3 1/2" (89 mm). Plate requires 1 3/4" (44 mm) minimum head frame

4040XP-18PA
Plate
- Required for parallel arm mounting where top rail is less than 5 1/2" (140 mm), measured from the stop
- Requires 2" (51 mm) minimum top rail

4040XP-62PA
PA shoe
- Required for parallel arm mounting

4040XP-30
CUSH shoe support
- Provides anchorage for fifth screw used with CUSH arms, where reveal is less than 3 1/16" (78 mm)
- Optional

4040XP-61
Blade stop spacer
- Required to lower parallel arm shoe to clear 1/2" (13 mm) blade stop
- Optional

4040XP-419
PA flush panel adapter
- Provides horizontal mounting surface for parallel arm shoe on single rabbeted or flush frame
- Optional

4040XP-62A
Auxiliary shoe
- Requires a top rail of 7" (178 mm)
- Shoe replaces -62PA for parallel arm mounting of regular arm with overhead holder/stop
- Optional

4040XP-54
Snap-on cover clip
- Used to secure 4040XP-72 plastic cover to cylinder body

Ordering information

How-to-order 4040XP Series closers

1. Select finish

☐ Standard powder coat _____
Aluminum (689), Dark Bronze (695), Statuary Bronze (690), Light Bronze (691), Black (693), or Brass (696)

Closer will be shipped with:
- Standard cylinder
- Standard cover
- Regular arm
- Self reaming and tapping screws
(unless options listed below are selected)

Closer options

Cylinder
☐ Delay Action Cylinder (CYLDEL)

Cover
☐ Metal (specify right or left hand)(MC)

Finish
☐ Custom powder coat (RAL) _____
(handed metal cover required)
☐ Plated finish, US _____
(handed metal cover required)
☐ SRI primer
(use with powder coat finishes only)

Arm
☐ Regular Arm (REGARM)
☐ Regular Arm with Parallel Arm Bracket (RWPA)
☐ Regular Arm with 62A Auxiliary Shoe (RW62A)
☐ Long Arm (LONG)
☐ Extra Long Arm (XLONG)
☐ Hold Open Arm (H)
☐ Hold Open with Parallel Arm Bracket (HWPA)
☐ Hold Open Long Arm (HLONG)
☐ Extra Duty Arm (EDA)
☐ Extra Duty Arm with 62G Thick Hub Shoe (EDAW62G)
☐ Hold Open Extra Duty Arm (HEDA)
☐ Cush-n-Stop Arm (CUSH)
☐ Hold Open Cush-n-Stop Arm (HCUSH)
☐ Spring Cush-n-Stop Arm (SCUSH)
☐ Spring Hold Open Cush-n-Stop Arm (SHCUSH)

Optional screw packs
☐ Through Bolt[1] Self Reaming and Tapping Screws (TBSRT)
☐ Wood and Machine Screws (WMS)
☐ Through Bolt[1] Wood and Machine Screws (TBWMS)
☐ Torx Machine Screws (TORX)
☐ Through Bolt[1] and Torx Machine Screws (TBTRX)

Installation accessories
☐ Plate, 4040XP-18
☐ Plate, 4040XP-18TJ
☐ Plate, 4040XP-18G
☐ Plate, 4030-18PA
☐ CUSH shoe support, 4040XP-30
☐ Blade stop spacer, 4040XP-61
☐ Auxiliary shoe, 4040XP-62A
☐ PA flush panel adapter, 4040XP-419

Special template
☐ ST-_____

1. Specify door thickness if other than 1 ¾".

Table of sizes

- 4040XP cylinders are adjustable from size 1 through size 6 and is shipped set to size 3
- Closing power of 4040XP Series closers may be adjusted 50%

Exterior (and vestibule) door width

Interior door width

→ Indicates recommended range of door width for closer size.
* Adjustable Size 1 thru 5.

Reduced opening force 4040XP Series closers

CAUTION! Any manual door closer, including those certified by BHMA to conform to ANSI Standard A156.4, that is selected, installed and adjusted based on ADA or other reduced opening force requirements may not provide sufficient power to reliably close and latch a door.

Refer to Automatic Operators catalog for information on systems that meet reduced opening force requirements without effecting closing power.

Door width	36"	42"	48"
8.5* lbs.	4040XP	4040XP	4040XP
5.0* lbs.	4040XP	4040XP	4040XP

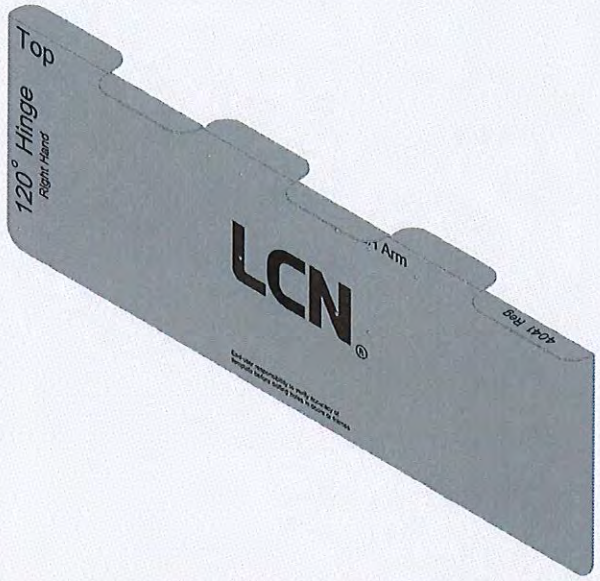
* Maximum opening force.

ALLEGION

LCN

4000 Series

Metal templates for easy installation



Overview

Reduce installation time with more consistent and accurate pre-drilling using the LCN metal installation template. The use of the template takes the guessing out of installing a door closer by adding labeled dimensions as well as eliminating the use of a paper template that could shift during the door prep. These metal installation templates accommodate several different types of installation from pull side of the door to push side by providing easy to read labels on the template.

Features and benefits

- Reduced installation time with accurate markings on metal installation templates
- Pre-marked drilling holes on templates take the guess work out of the installation process
- More consistent installation with easy to read labeling
- Metal installation templates eliminate worry about paper template shifting

Contact your local sales representative or call customer care to start the discussion at 877.671.7011.

Templates and kits

There are kits available to purchase, as well as the ability to purchase a single template; each sold separately.

Description	Part number
4040XP Metal template kit Four (4) template kit (includes 4040XP-107REG, -107PA, -107EDA and -107CUSH)	4040XP-3107
4040XP Metal template – REG (regular arm only)	4040XP-107REG
4040XP Metal template – Rw/PA (regular arm w/PA only)	4040XP-107PA
4040XP Metal template – EDA (extra duty arm only)	4040XP-107EDA
4040XP Metal template – CUSH (Cush-n-Stop arm only)	4040XP-107CUSH
4110 Metal template kit Two (2) template kit (includes 4110-107EDA and -107CUSH)	4110-3107
4110 Metal template – EDA (extra duty arm only)	4110-107EDA
4110 Metal template – CUSH (Cush-n-Stop arm only)	4110-107CUSH
4010 Metal template – REG (regular arm only)	4010-107REG

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries. For more, visit **www.allegion.com.**

KRYPTONITE ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN

ALLEGION™

010590, Rev. 07/19
www.allegion.com/us

4050A & 4050A DEL Series

Installation Instructions Instrucciones instalación Instructions d'installation

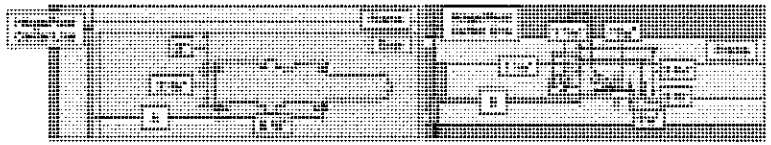
Note Nota Remarque:
See other side for Optional Hold Open Arm installation and adjustment.
Consulte el reverso para ver la instalación y el ajuste del brazo opcional para mantener abierto.
Consultez l'autre côté pour l'installation et le réglage du bras d'ouverture avec retenue en option.

Note Nota Remarque:
Left Hand (LH) shown throughout instructions. Right Hand (RH) opposite.
Se muestra la apertura hacia la izquierda (LH) en las instrucciones. El procedimiento para apertura hacia la derecha (RH) es opuesto.
Main gauche (MG) illustrée tout au long de ces instructions. Main droite (MD) se fait de manière opposée.

LCN®

CUSH

Mounting Dimensions



1 Determine the degree of door opening required.
① **SCUSH dead stop will occur about 5° beyond normal dead stop point.**

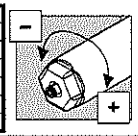
Opening	Measurement from Center Line of Hinge/Pivot	
	A	B
85°	8 5/8"	11 1/8"
90°	7 7/8"	10 1/2"
95°	7 1/4"	9 7/8"
100°	6 3/4"	9 1/4"
105°	6 1/4"	8 7/8"
110°	5 3/4"	8 3/4"

2 Measure from centerline of hinge/pivot. Mark drilling holes.

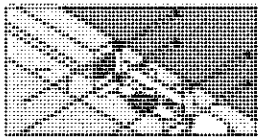
3 Drill holes where marked with a 1/8" drill bit for SRT screws.
① **Reduce installation torque if using SRT screws in wood.**

4 Measure the door's width. Use 5/32" hex wrench to adjust the closer spring power. Use the table below to determine number of turns required.
① **These turns are recommended, but may change due to door weight and environmental conditions.**
① **Do not use power drill to adjust spring force! It may cause damage and void the warranty.**

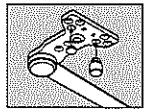
Door Width	Number of Turns
ADA Setting	-9
32" - 815 mm	-4
36" - 915 mm	0
42" - 1050 mm	+4
48" - 1220 mm	+9
54" - 1372mm	+13



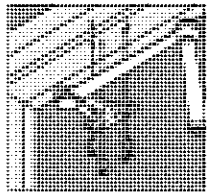
5 Install closer onto door.



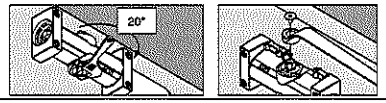
6 Adjust the shoe to match the door handing.
① **If RH door, do not adjust shoe. If LH door, change stop location to opposite side.**
① **See next page for installing SCUSH Contact block.**



7 Install CUSH shoe & fifth hole spacer onto frame.
① **Use the fifth hole spacer only if there is a space between the frame and the shoe.**
① **Use of 5th Hole limited to reveals greater than 2 11/16".**

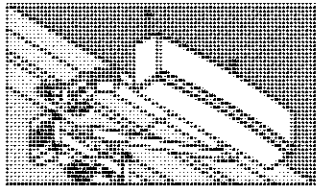


8 Preload closer shaft to 20°, attach main arm to closer.



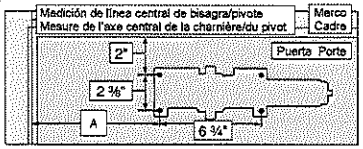
9 Adjust the closer, if necessary.

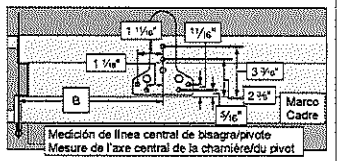
10 Install cover.



Montaje en CUSH Montage du CUSH

Dimensiones del orificio de montaje
Dimensions des trous de montage

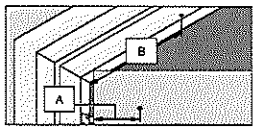




1 Determine el grado de apertura de la puerta requerido.
Déterminez le degré d'ouverture de la porte requis.
① **El cierrapuertas de resorte se detendrá a alrededor de 5 grados más allá del punto normal de detención.**
① **La butée fixe du ressort amortisseur se tiendra à environ 5 degrés au-delà du point d'arrêt normal.**

Apertura Ouverture	Medición de línea central de bisagra/pivote Mesure de l'axe central de la charnière/du pivot	
	Medida/Dimension A	Medida/Dimension B
85°	8 5/8"	11 1/8"
90°	7 7/8"	10 1/2"
95°	7 1/4"	9 7/8"
100°	6 3/4"	9 1/4"
105°	6 1/4"	8 7/8"
110°	5 3/4"	8 3/4"

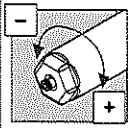
2 Mida desde la línea central de la bisagra/pivote. Marque los orificios de perforación.
Mesurez à partir de l'axe central de la charnière/du pivot. Faites des marques pour les trous à percer.



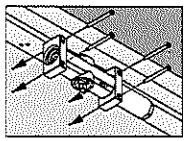
3 Perfore orificios donde está marcado con una broca de taladro de 1/8" para tornillos SRT.
Retirez le gabarit et percez des trous de 3.2 mm (1/8 po) aux endroits marqués avec une mèche pour les vis SRT.
① **Reduzca la torsión de la instalación si utiliza tornillos SRT en madera.**
Réduisez le couple d'installation si vous utilisez des vis SRT dans du bois.

4 Mida el ancho de la puerta. Con una llave de 5/32", ajuste la potencia del resorte del mecanismo de cierre. Use la tabla para determinar el número de vueltas necesarias.
Mesurez la largeur de la porte. À l'aide d'une clé de 5/32 po ou de 4 mm, réglez la puissance du ressort du dispositif de fermeture. Utilisez le tableau pour déterminer le nombre de tours requis.
① **Se recomienda este número de giros, pero puede cambiar debido al peso de la puerta o condiciones ambientales.**
Ces tours sont recommandés, mais peuvent être modifiés selon le poids de la porte et les conditions environnementales.
① **¡No utilice un taladro eléctrico para ajustar la fuerza del resorte! Podría causar daños y anular la garantía.**
N'utilisez pas de perceuse électrique pour régler la force du ressort! Cela pourrait causer des dommages et annuler la garantie.

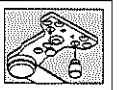
Ancho de la puerta Largeur de la porte	Número de giros Nombre de tours
ADA Setting	-9
32" - 815 mm	-4
36" - 915 mm	0
42" - 1050 mm	+4
48" - 1220 mm	+9
54" - 1372mm	+13



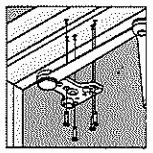
5 Instale el mecanismo de cierre en la puerta.
Installez le dispositif de fermeture sur la porte.



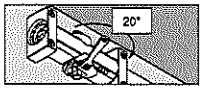
6 Ajuste el zócalo para que coincida con la manija de la puerta.
Réglez le sabot pour qu'il corresponde à la main d'ouverture de la porte.
① **En caso de puerta que se abre hacia la derecha, no ajuste el zócalo. En caso de puerta que se abre hacia la izquierda, cambie la ubicación del tope al lado opuesto.**
S'il s'agit d'une porte droite, n'ajustez pas le sabot. S'il s'agit d'une porte gauche, déplacez la butée du côté opposé.
① **Consulte la página siguiente para instalar la cerradura de contacto SCUSH.**
Voir la page suivante pour installer le bloc de contact SCUSH.

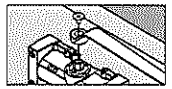


7 Instale el zócalo EDA y el espaciador del 5to orificio en el marco.
Installez le sabot EDA et l'entretoise du cinquième trou sur le cadre.
① **Use el espaciador del quinto orificio solo si hay un espacio entre el marco y el zócalo del PA.**
Utilisez l'entretoise facultative du cinquième trou seulement s'il y a un espace entre le cadre et le sabot du BP.
① **El uso del 5.to orificio está limitado a llatones de más de 2 11/16".**
Utilisez le 5e trou limité pour révéler plus de 2 11/16".



8 Rote el eje del mecanismo de cierre 20° y coloque el brazo principal con el tornillo provisto.
Faites tourner l'arbre du dispositif de fermeture de 20° puis fixez le bras principal avec les attaches fournies.





9 Ajuste el mecanismo de cierre, si fuera necesario.
Réglez le dispositif de fermeture au besoin.

10 Instale la cubierta.
Installer le couvercle.

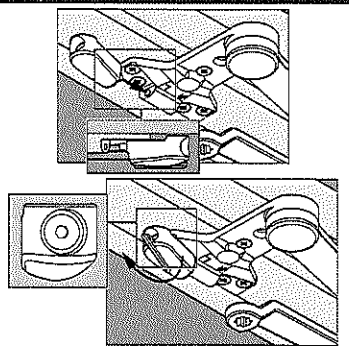
Spring CUSH (SCUSH)

1 Location

In new installations, use the standard CUSH shoe. When replacing an existing CUSH arm, use the existing mounting holes.

2 Installation
   a. Mount the shoe onto the frame.
   b. Use a 5/32" hex wrench to install the contact block assembly, as shown below. Make sure the screw is tightened securely into the shoe.

3 Complete the closer installation as directed for regular CUSH arms on other side.



CUSH Shoe Support for After Installation

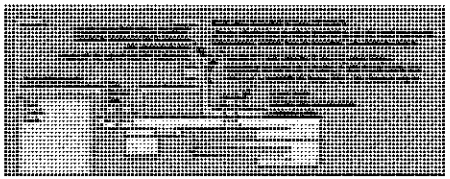
1 CUSH Shoe Support limited to reveals between 1 1/16" and 1 13/16".

2 Set CUSH Shoe Support on top of the shoe and hold against the frame.

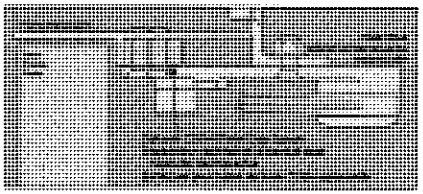
3 Assemble the screw, washer, and nut as shown below, and tighten securely.

4 Using the shoe support as a template, drill and tap two holes for 1/4-20 screws in the frame.

5 Insert and tighten the screws.



6 Should frames have 1/2" Blade Stop, it is necessary to use a 1/2" Blade Stop Spacer, available from your dealer. Use both the Blade Stop Spacer and Shoe Support wherever required.



Cierrapuertas de Resorte (SCUSH)

1 Ubicación

En instalaciones nuevas, use el zócalo estándar del cierrapuertas. Al reemplazar el brazo de un cierrapuertas existente, use los orificios de montaje existentes.

2 Instalación
   a. Monte la zapata en el marco.
   b. Use una llave hexagonal de 5/32" o 4 mm para instalar el ensamble del bloque de contacto, como se muestra a continuación. Asegúrese de que el tornillo esté ajustado firmemente en la zapata.

3 Complete la instalación del mecanismo de cierre tal como se indica para los brazos del CUSH normales que se indica en el reverso.

Soporte de la zapata del cierrapuertas después de la instalación

1 El soporte de zapata está limitado a listones de entre 1 1/16" y 1 13/16".

2 Coloque el soporte de la zapata del cierrapuertas sobre la zapata y mantenga contra el marco.

3 Ensamble el tornillo, la arandela y la tuerca como se muestra a continuación, y ajuste firmemente.

4 Usando el soporte de la zapata como plantilla, perfore y marque dos orificios para tornillos de 1/4-20 en el marco.

5 Inserte y ajuste los tornillos.

6 Si los marcos tienen barreras para hojas de 1/2", es necesario usar un espaciador de 1/2" para barreras para hojas, disponible a través de su distribuidor. Use el espaciador para barreras para hojas y el soporte de la zapata, de ser necesario.

Montage du bras à ressort (SCUSH)

1 Positionnement

Pour les nouvelles installations, utilisez le sabot standard CUSH. Pour le remplacement d'un bras CUSH existant, utilisez les trous de montage existants.

2 Installation
   a. Montez le sabot sur l'encadrement.
   b. Utilisez une clef hexagonale de 5/32 po pour installer l'assemblage du bloc de contact, comme illustré. Assurez-vous que la vis est bien serrée sur le sabot.

3 Terminez l'installation du ferme-porte comme indiqué pour les bras CUSH ordinaires de l'autre côté.

Support du sabot CUSH après l'installation

1 Sabot CUSH limité pour révéler entre 1 1/16 po et 1 13/16 po.

2 Placez le support du sabot CUSH au-dessus du sabot et tenez-le contre l'encadrement.

3 Assemblez la vis, la rondelle et l'écrou tel qu'illustré ci-dessous, puis serrez solidement.

4 En vous servant du support à sabot comme gabarit, percez et taraudez deux trous pouvant accueillir deux vis 1/4-20 dans l'encadrement.

5 Insérez et serrez les vis.

6 Si les encadrements ont une butée de lame de 1/2 po, il est nécessaire d'utiliser une entretoise pour butée de lame de 1/2 po, offerte chez votre fournisseur. Utilisez une entretoise pour butée de lame et un support de sabot, lorsque nécessaire.

Closer Valve Adjustment

① **Valve must be closed CW to seat. Adjust the valves in 2¼ turn increments or less at a time. NEVER TURN MORE THAN 3 FULL ROTATIONS.**

① **Adjust the spring force, not latch speed, if the door does not latch.**

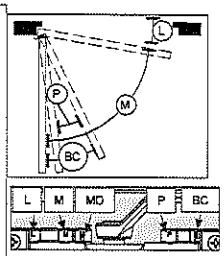
1. Open the door 90°, time how long it takes to close and latch. Closing time should be 5 to 7 seconds, evenly divided between main speed and latch speed.
2. To adjust the closing time, use a 9/32" hex wrench to adjust the closer valves:
   a. Backcheck (BC)- this controls door speed opening as the door angle approaches 90°. **Do not use as a door stop.**
   b. Main Speed (MD)- this controls main speed for standard cylinders and the delay speed for delay (DA) cylinders.
   c. DA Main Speed (M)- this controls the main speed for DA cylinders. **This valve is present on DA cylinders only.**
   d. Latch Speed (L)- this controls door speed during the last few degrees of door closing.
   e. PA Selector (P)- this needs to be turned in completely for PA mounting.
3. Turn the valves clockwise to decrease door speed, and counterclockwise to increase door speed. The latch speed and main speed should be adjusted together.

BC = Backcheck valve
= válvula de retención
= soupape de retenue

M / MD = Main speed valve
= válvula de velocidad principal
= soupape de la vitesse principale

L = Latch speed valve
= válvula de velocidad del pasador
= soupape de la vitesse d'enclenchement

P = PA selector valve
= Válvula del selector de PA
= Soupape du sélecteur du BP



Optional Hold Open Arms Brazos opcionales para mantener abierto Bras de retenue facultatifs

To adjust Optional Hold-open arm:
To engage or disengage hold open feature, turn control handle 1/4 turn.

Para ajustar el brazo opcional para mantener abierto:
Pour régler le bras de retenue facultatif:
Para acoplar o desacoplar la función de mantener abierto, gire la manija de control en un 1/4 de vuelta.
Pour enclencher ou désengager une caractéristique ouverte, tournez la poignée de contrôle d'un quart de tour.

⚠ CAUTION PRECAUCIÓN MISE EN GARDE ⚠

Improper installation or regulation may result in personal injury or property damage. Follow all instructions carefully. For questions, call LCN at 877 - 671 - 7011	**La instalación o regulación incorrecta puede resultar en lesiones personales o daño a los bienes. Siga todas las instrucciones con atención. Si tiene preguntas, llame a LCN al 877 - 671 - 7011**	**Une installation inadéquate ou le non-respect des règlements peut causer des blessures ou des dommages matériels. Suivez attentivement toutes les instructions. Pour toute question, appelez LCN au 877 - 671 - 7011**
Do not install hold open arms on fire rated doors.	**No instale los brazos para mantener abierto en las puertas resistentes al fuego.**	**N'installez pas les bras d'ouvertures avec retenue sur les portes coupe-feu.**
DO NOT USE THE CLOSER AS A DOOR STOP! An auxiliary stop is recommended at the hold-open point or where the door cannot swing 180°.	**¡NO UTILICE EL MECANISMO DE CIERRE COMO TOPE DE PUERTA! Se recomienda el uso de un tope auxiliar en el punto de mantener abierto o donde la puerta no puede girar 180°.**	**N'UTILISEZ PAS LE DISPOSITIF DE FERMETURE EN TANT QUE BUTOIR! Il est recommandé d'utiliser un butoir auxiliaire au point de retenue ou à l'endroit où la porte ne peut s'ouvrir à 180°.**
Opening the regulation valves too far may result in the closer leaking! This may result in closer and property damage and personal injury.	**¡Abrir demasiado las válvulas de regulación puede generar fugas de aceite del mecanismo de cierre! Esto puede ocasionar daños en el mecanismo de cierre y materiales, y lesiones personales.**	**Une trop grande ouverture des vannes de régulation peut entraîner une fuite d'huile dans le dispositif de fermeture! Cela pourrait causer des dommages au dispositif de fermeture et aux matériels, ainsi que des blessures.**

Ajuste de la válvula del mecanismo de cierre

① **La válvula se debe cerrar en sentido horario para asentarse. Ajuste las válvulas en incrementos de 1/4 de vuelta o menos a la vez. NO GIRE MÁS DE 3 ROTACIONES COMPLETAS.**

① **Regule la fuerza del resorte, no la velocidad de cierre, si la puerta no se cierra.**

1. Abra la puerta a 90°, mida cuánto tiempo tarda en cerrar y trabarse. Un tiempo de cierre sería de 5 a 7 segundos, divido de manera uniforme entre velocidad principal y velocidad de cierre.
2. Para regular el tiempo de cierre, use una llave hexagonal de 3/32" para ajustar las válvulas del mecanismo de cierre:
   a. Retención (BC): controla la velocidad de apertura de la puerta cuando el ángulo de la puerta se acerca a 90°. **No usar como tope de puerta.**
   b. Velocidad principal (MD): controla la velocidad principal para los cilindros estándares y la velocidad de retardo para cilindros de retardo (DA).
   c. Velocidad principal de DA (M): controla la velocidad principal de los cilindros DA. **Esta válvula se encuentra solo en cilindros DA.**
   d. Velocidad del pasador (L): controla la velocidad de la puerta durante los últimos grados del cierre de la puerta.
   e. Selector de PA (P): necesita cambiarse completamente para el montaje del brazo paralelo (PA).
3. Gire las válvulas en sentido horario para reducir la velocidad de la puerta y en sentido antihorario para aumentar la velocidad de la puerta. La velocidad del pasador y la velocidad principal deben ajustarse conjuntamente..

Réglage de la soupape du dispositif de fermeture

① **La vanne doit être fermée dans le sens des aiguilles d'une montre pour s'asseoir. Réglez les soupapes en effectuant 1/4 de tour ou moins à la fois. N'EFFECTUEZ PAS PLUS DE 3 ROTATIONS COMPLÈTES.**

① **Ajustez la force du ressort, et non la vitesse du verrou, si la porte ne se verrouille pas.**

1. Ouvrez la porte à 90° et comptez le temps nécessaire pour que la porte se ferme et s'enclenche. Le temps de fermeture habituel est de cinq à sept secondes et est divisé également entre la vitesse principale et la vitesse d'enclenchement.
2. Pour régler le temps de fermeture, utilisez une clé hexagonale de 2,381 mm (3/32 po) pour ajuster les vannes de fermeture :
   a. Retenue (BC)- contrôle la vitesse d'ouverture de la porte lorsque l'angle s'approche de 90°. **N'utilisez pas de butoir.**
   b. Vitesse principale (MD)- contrôle la vitesse principale pour les cylindres standard et la vitesse de retardement pour les cylindres à retardement.
   c. Vitesse principale du cylindre à retardement (M)- contrôle la vitesse principale des cylindres à retardement. **Cette soupape est présente sur les cylindres à retardement seulement.**
   d. Vitesse d'enclenchement (L)- contrôle la vitesse de la porte durant les derniers degrés de la fermeture.
   e. Sélecteur du BP (P)- doit être complètement tourné vers l'intérieur pour le montage du bras parallèle (BP).
3. Faites tourner les soupapes dans le sens horaire pour faire diminuer la vitesse de la porte, et dans le sens antihoraire pour la faire augmenter. La vitesse d'enclenchement et la vitesse principale doivent être réglées ensemble.

W. A. THOMAS CO., INC

2356 Pacheco Blvd
Martinez, CA 94553

Telephone (925) 228-9600
FAX (925) 228-6932

Biological Sciences B2100 Building Annex
Chabot College
25555 Hesperian Blvd., Hayward CA 94545

WATCO Job No. 518

CHANGE ESTIMATE No. 17314

11/15/2021

Item	Hrs	Material / Equip.	Labor	Subcontractor	Total
Change Description:					
Furnish and Install steel plate lid at Room 2171 IDF Vault per RFI# 121.1 Response. CFD #111					
Breakdown of Estimated Subcontractor Costs:					
				$0	$0
Metal Set Proposal dated 10/26/2021		$906		$0	$906
					$0
				$0	$0
Qualifications: Price for itemized work only listed on subcontractor quotation. Overtime excluded. Any extra work not noted or unforseen conditions will be priced separately.				$0	$0
				$0	$0
W. A. Thomas Co., Inc. Work				$0	$0
			$0	$0	$0
				$0	$0
				$0	$0
				$0	$0
Subtotal		$906	$0	$0	$906
Tax 10%					$0
15% on WATCO work					$136
5% on Subcontractor Costs					$0
1% Bond (GC)					$10
Total Lump Sum					**$1,052**

Additional Time: none

This quotation is based solely on the direct cost elements involved for the change noted and does not include any evaluation of the impact or the subject change upon the contract time or any costs related thereto. This quotation is only for the work described herein.

1200 Hensley St.
Richmond, CA 94801
Contractor Lic. C51 No.701195

METALSET, INC.
structural steel - misc. metals
fabricator - erector

PH (510) 233-9998
FAX (510) 233-9908
www.metalsetinc.com

AISC CERTIFIED FABRICATOR and ERECTOR

October 26,2021

W. A. Thomas
2356 Pacheco Boulevard
Martinez, California 94553

Attn: Bill Luce

Re: Chabot Bio-Science Annex
RFI 121.1 and CFD 111
Metalset, Inc Job # 8956 CE 5

Jim,

Metalset's price to furnish, fabricate and Deliver one ¼" plate, shop primed is $906.00. Shown below is our pricing.

Material	$225.00
Shop Labor 3 Hours @ $70.00/Hr	$210.00
Freight	$280.00
Subtotal	$715.00
Profit 15%	$107.00
F. O. B. Tax	$84.00
Total	$906.00

Exclusions.
Rubber gasket.

Metalset will proceed upon receiving a written change order.

Sincerely,

Wesley Sillineri
Metalset, Inc.

Chabot-Las Positas Community College District

Construction Field Directive

To: W.A. Thomas Co., Inc. **Field Dir. 111**
Project: Biological Sciences B2100 Building Annex **Issue: 10/13/2021**

Description of Work:

- Provide all labor, materials, and equipment to install a ¼" thick steel "lid" in IDF Room 2171, as described in RFI 121.1 response.

Reason for Directive:

- It was discovered that the required 48' 90-degree conduit sweeps could not be used due to the location of the mat slab foundations. A new design was required using a poured in place vault/pit which needs a lid.

Direction:

☐ Proceed with work on T&M Basis; submit T&M back-up daily.
Cost not to exceed $.00 estimate
Contractor shall notify Construction Manager when costs reach 80% of the Not to exceed amount.

☐ Provide Credit in the amount of $ (XX) for the additional service provided by the Architect as a result of non-conforming work.

☒ Proceed with work, submit signed T&M back-up daily, unless PCO is provided prior and approved.
The District reserves all rights and remedies under the contract.

☐ Proceed with work, work considered in scope of contract.

☐ Proceed with the work in accordance with the proposal CE xx dated xx xx, 2021 in the amount of $ xxx.00. x-day Time Extension.
The work will be added to the contract by change order only when and not until any contract time adjustment has been agree to.
The District reserves all its rights and remedies under the contract.

By Eric Benzer 10/13/2021
VanirCM, Inc. Construction Manager Date

By [signature] 10/14/2021
Chabot College Campus Project Planner/Mgr. Date

W. A. THOMAS CO., INC.

Pacheco Boulevard
Martinez, CA 94553

Telephone (925) 228-9600
FAX (925) 228-6932

FIELD REQUEST FOR INFORMATION NO.: 121.1

Robert L. Sands Jr.
Vanir CM.
E-Mail: Robert.sands@vanir.com

Date: July 31, 2018
Re: Chabot Bio-Science Annex
Pages Faxed: 4 WATCO Project: 518

Subject: Underslab Electrical Conduits
Spec. / Drwg: S-101, S-200,E-100, E-103, & T-101
Contractor: Barry McGraw Elect.

Info. Req: Please see attached BME RFI 3 dated 7/30/18: 1. There is a total of (6) 4" Underground Conduits going into Main Electrical Room on the First Floor. There is also a large pad foundation location underneath this room. From Top of Footing to Finish Floor is 24" . We will need to install standard radius 90 fittings in order to accommodate this.

a. Please verify that we will be allowed to use standard radius 90 fittings
b. Please verify 24" Cover for these conduits will be allowed under slab.

180830 TRIAGE- HED (MB):
RELATED TO OAC NOTE 024, REGARDING DISCUSSION WHICH ESTABLISHED RFI 121.A (121.1) WAS SPECIFICALLY IN REGARD TO ELECTRICAL CONDUIT. WHEREAS RFI 121.1 IS SPECIFICALLY FOR TELECOMMUNICATIONS CONDUIT ORAND RELATED STANDARDS - ARUP TO VERIFY INFORMATION PROVIDED ADHERES TO THE STANDARDS:

1) CHABOT COLLEGE
2) IS ETL LISTED AND CONFORMS TO UL561

Urgency: Med
Date Information Needed: 8/14/2018
Cost / ScheduleImpact: TBD
Project IOR:
Bill Luce W. A. THOMAS CO. INC.

180928 REPLY- HED (GM): ARUP REPLY IS ON PAGES 2-4 OF THIS PDF. HED SUPPLEMENTAL SKETCH IS ON PAGE 5 OF THIS PDF.

RESPONSE: THE FOUR (4) TELECOM CONDUITS AND TWO (2) ELECTRICAL CONDUITS ARE TO BE ROUTED PER THE ATTACHED MARK-UP OF SKETCH 01 (PAGE 3 OF THIS PDF). THE FOUR (4) 4-INCH CONDUITS SERVING THE IDF ROOM 2168 WILL FOLLOW THE DIAGRAMMED ROUTE AND ENTER THE VAULT/PIT'S WEST SIDE IN A 1x4 HORIZONTAL ALIGNMENT. SEE ATTACHED VAULT/PIT SECTION (PAGE 5 OF THIS PDF) FOR ADDITIONAL INFORMATION.

THE CONDUITS ENTERING THE ELECTRICAL ROOM WILL UTILIZE "STANDARD RADIUS 90 FITTINGS" TO ENTER ELECTRICAL ROOM 2166 THROUGH THE 6" SOG.

By:
Sub Copy:
Response Date:
G.MILLER 9/28/18
DSA Approval:

ARUP

Request for Information 0121.1

560 Mission Street, Suite 700
San Francisco, CA 94105
t +415 957 9445

CHABOT COLLEGE BIOLOGY ANNEX

Received: 9/21/2018
Returned: 9/27/2018
Arup Project #: 245042-00

Harley Ellis Devereaux
417 Montgomery St #400
San Francisco, CA 94104
Attention: Anna MacDougall

Subject: Underslab Electrical Conduits

Information Requested:

Please see attached BME RFI 3 dated 7/30/18: 1. There is a total of (6) 4" Underground Conduits going into Main Electrical Room on the First Floor. There is also a large pad foundation location underneath this room. From Top of Footing to Finish Floor is 24" . We will need to install standard radius 90 fittings in order to accommodate this.

a. Please verify that we will be allowed to use standard radius 90 fittings

b. Please verify 24" Cover for these conduits will be allowed under slab.

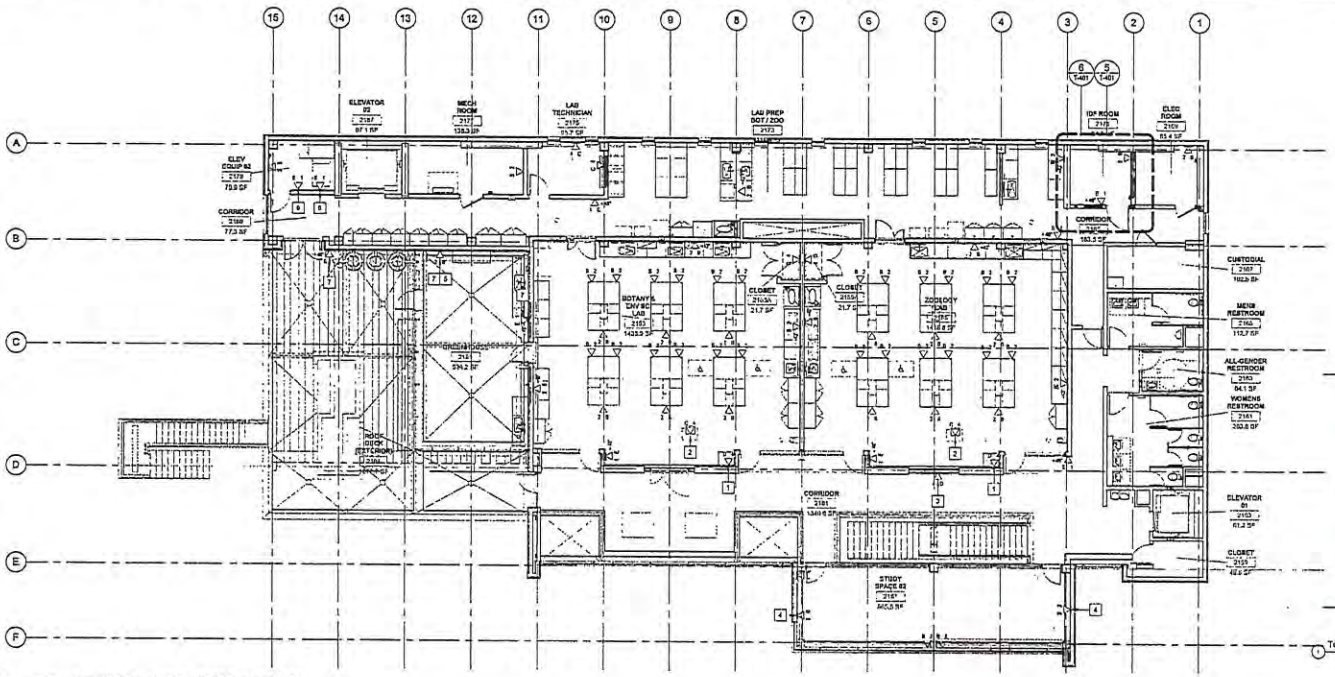
Responses

Kaitlin Hoffman

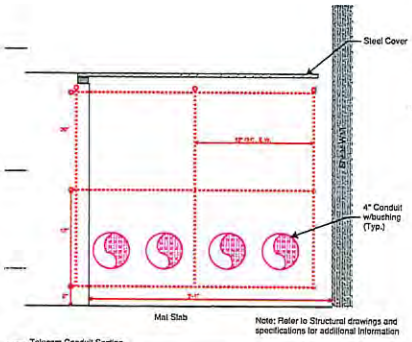
Standard radius 90 fittings are not acceptable for incoming telecommunication conduits. Please see attached markup for proposed solution.

Tori Wallis

No exception taken with proposed standard radius 90 fittings and 24" cover for electrical conduits. See attached markups for proposed electrical conduit routing.

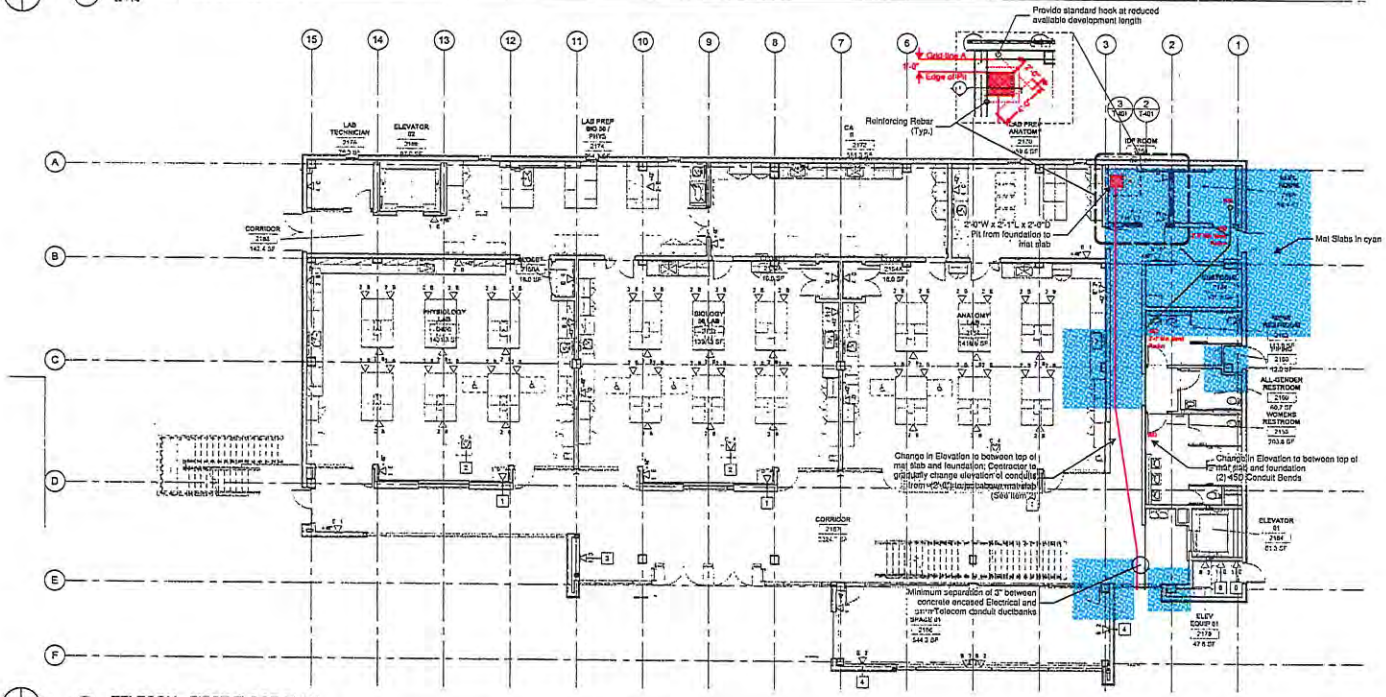


N 2 TELECOM - SECOND FLOOR PLAN

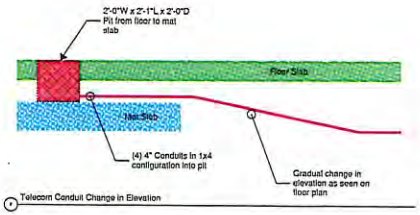


Telecom Conduit Section

Note: Refer to Structural drawings and specifications for additional information



N 1 TELECOM - FIRST FLOOR PLAN



Telecom Conduit Change in Elevation

CHABOT COLLEGE

CHABOT COLLEGE

Biological Sciences Building Annex

25555 Hesperian Drive
Hayward, CA 94545

ARUP

Arup North America Ltd.
560 Mission Street, Suite 700
San Francisco, CA 94105
Tel (415) 957 9445 Fax (415) 957 9096
www.arup.com

HED

417 MONTGOMERY STREET
SUITE 400
SAN FRANCISCO, CALIFORNIA
94104, USA

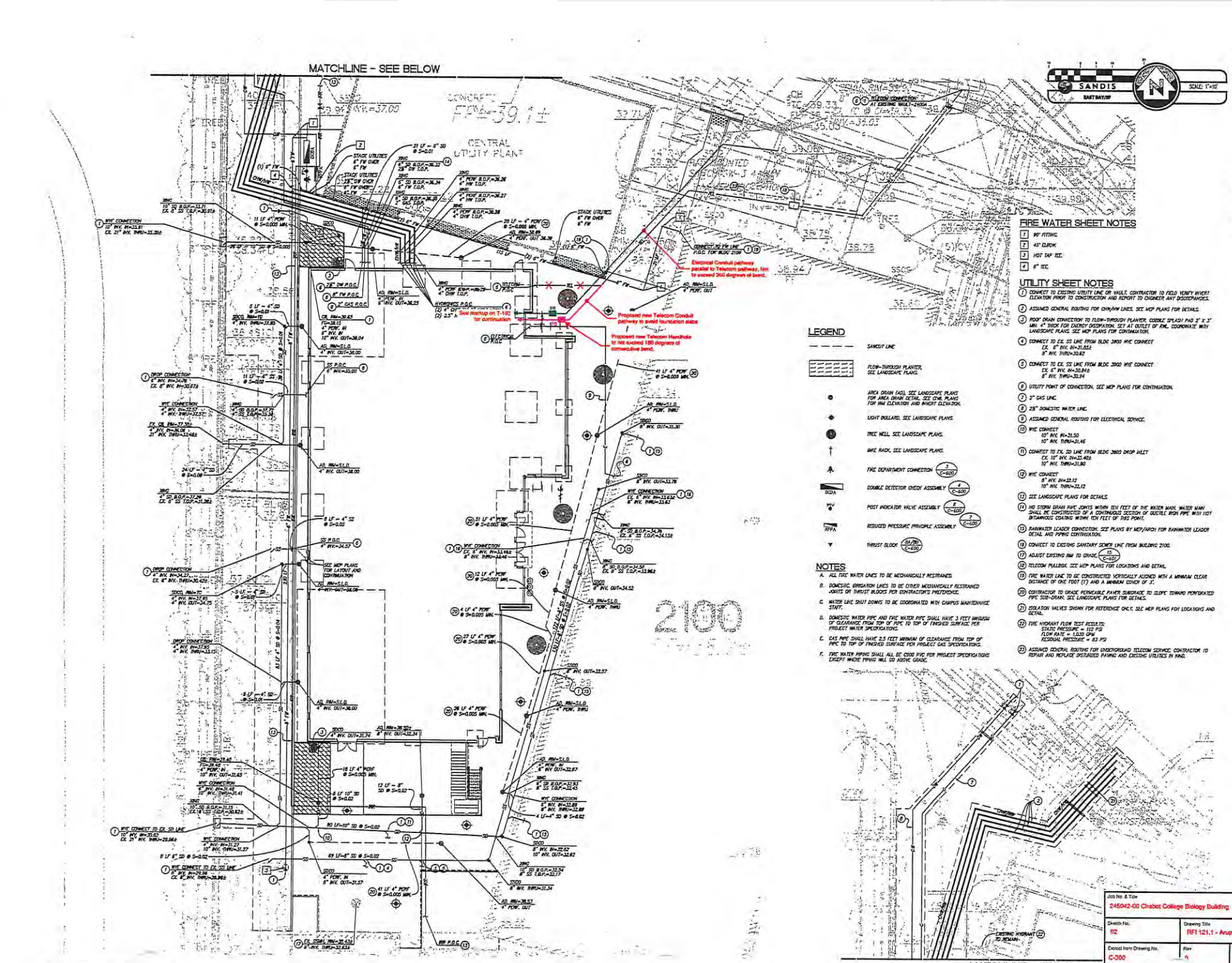
(T) 415 981 2345

WWW.HED.DESIGN

Job No. & Title		Date
245042-00 Chabot College Biology Building		09/27/2018
Sketch No.	Drawing Title	
01	RFI 121.1 - Arup Response	
Extract from Drawing No.	Rev	Scale / Drawn By
T-102		NTS / KH, TW

017 9:16:10 AM

C:\...ta\Autodesk\B2180-CENTRAL-MEP_lun.lautan.r



FIRE WATER SHEET NOTES

1. 90° FITTING.
2. 45° ELBOW.
3. HOT TAP TEE.
4. 6" TEE.

UTILITY SHEET NOTES

1. CONNECT TO EXISTING UTILITY LINE OR VAULT. CONTRACTOR TO FIELD VERIFY INVERT ELEVATION PRIOR TO CONSTRUCTION AND REPORT TO ENGINEER ANY DISCREPANCIES.
2. ASSUMED GENERAL ROUTING FOR CW/HW LINES. SEE MEP PLANS FOR DETAILS.
3. ROOF DRAIN CONNECTION TO FLOW-THROUGH PLANTER. COBBLE SPLASH PAD 2' X 3' MIN. 4" THICK FOR ENERGY DISSIPATION. SET AT OUTLET OF RWL. COORDINATE WITH LANDSCAPE PLANS. SEE MEP PLANS FOR CONTINUATION.
4. CONNECT TO EX. SS LINE FROM BLDG 3900 WYE CONNECT
   EX. 6" INV. IN=31.65±
   8" INV. THRU=30.62
5. CONNECT TO EX. SS LINE FROM BLDG 3900 WYE CONNECT
   EX. 6" INV. IN=30.84±
   8" INV. THRU=30.94
6. UTILITY POINT OF CONNECTION. SEE MEP PLANS FOR CONTINUATION.
7. 2" GAS LINE.
8. 2" DOMESTIC WATER LINE.
9. ASSUMED GENERAL ROUTING FOR ELECTRICAL SERVICE.
10. WYE CONNECT
    10" INV. IN=31.50
    10" INV. THRU=31.46
11. CONNECT TO EX. SD LINE FROM BLDG 3900 DROP INLET
    EX. 10" INV. IN=25.40±
    10" INV. THRU=31.90
12. WYE CONNECT
    8" INV. IN=32.12
    10" INV. THRU=32.12
13. SEE LANDSCAPE PLANS FOR DETAILS.
14. NO STORM DRAIN PIPE JOINTS WITHIN TEN FEET OF THE WATER MAIN. WATER MAIN SHALL BE CONSTRUCTED OF A CONTINUOUS SECTION OF DUCTILE IRON PIPE WITH HOT BITUMINOUS COATING WITHIN TEN FEET OF THE PIPE'S POINTS.
15. RAINWATER LEADER CONNECTION. SEE PLANS BY MEP/ARCH FOR RAINWATER LEADER DETAIL AND PIPING CONTINUATION.
16. CONNECT TO EXISTING SANITARY SEWER LINE FROM BUILDING 2100.
17. ADJUST EXISTING MH TO GRADE (10 / C-601)
18. TELECOM PULLBOX. SEE MEP PLANS FOR LOCATIONS AND DETAIL.
19. FIRE WATER LINE TO BE CONSTRUCTED VERTICALLY ALIGNED WITH A MINIMUM CLEAR DISTANCE OF ONE FOOT (1') AND A MINIMUM COVER OF 3'.
20. CONTRACTOR TO GRADE PERMEABLE PAVER SUBGRADE TO SLOPE TOWARD PERFORATED PIPE SUB-DRAIN. SEE LANDSCAPE PLANS FOR DETAILS.
21. ISOLATION VALVES SHOWN FOR REFERENCE ONLY. SEE MEP PLANS FOR LOCATIONS AND DETAIL.
22. FIRE HYDRANT FLOW TEST RESULTS:
    STATIC PRESSURE = 112 PSI
    FLOW RATE = 1,020 GPM
    RESIDUAL PRESSURE = 83 PSI
23. ASSUMED GENERAL ROUTING FOR UNDERGROUND TELECOM SERVICE. CONTRACTOR TO REPAIR AND REPLACE DISTURBED PAVING AND EXISTING UTILITIES IN KIND.

LEGEND

- SAWCUT LINE
- FLOW-THROUGH PLANTER, SEE LANDSCAPE PLANS.
- AREA DRAIN (AD), SEE LANDSCAPE PLANS FOR AREA DRAIN DETAIL. SEE CIVIL PLANS FOR HW ELEVATION AND INVERT ELEVATION.
- LIGHT BOLLARD, SEE LANDSCAPE PLANS.
- TREE WELL, SEE LANDSCAPE PLANS.
- BIKE RACK, SEE LANDSCAPE PLANS.
- FIRE DEPARTMENT CONNECTION (3 / C-600)
- DDCVA — DOUBLE DETECTOR CHECK ASSEMBLY (4 / C-600)
- PIV — POST INDICATOR VALVE ASSEMBLY (6 / C-600)
- RPPA — REDUCED PRESSURE PRINCIPLE ASSEMBLY (7 / C-600)
- THRUST BLOCK (6A,7B / C-600)

NOTES

A. ALL FIRE WATER LINES TO BE MECHANICALLY RESTRAINED.

B. DOMESTIC IRRIGATION LINES TO BE EITHER MECHANICALLY RESTRAINED JOINTS OR THRUST BLOCKS PER CONTRACTOR'S PREFERENCE.

C. WATER LINE SHUT DOWNS TO BE COORDINATED WITH CAMPUS MAINTENANCE STAFF.

D. DOMESTIC WATER PIPE AND FIRE WATER PIPE SHALL HAVE 3 FEET MINIMUM OF CLEARANCE FROM TOP OF PIPE TO TOP OF FINISHED SURFACE PER PROJECT WATER SPECIFICATIONS.

E. GAS PIPE SHALL HAVE 2.5 FEET MINIMUM OF CLEARANCE FROM TOP OF PIPE TO TOP OF FINISHED SURFACE PER PROJECT GAS SPECIFICATIONS.

F. FIRE WATER PIPING SHALL ALL BE C900 PVC PER PROJECT SPECIFICATIONS EXCEPT WHERE PIPING WILL GO ABOVE GRADE.

SANDIS — EAST BAY/SF — SCALE: 1"=10'

CHABOT COLLEGE

CHABOT COLLEGE
Biological Sciences
B2100 Building
Annex

25555 Hesperian Drive
Hayward, CA 94545

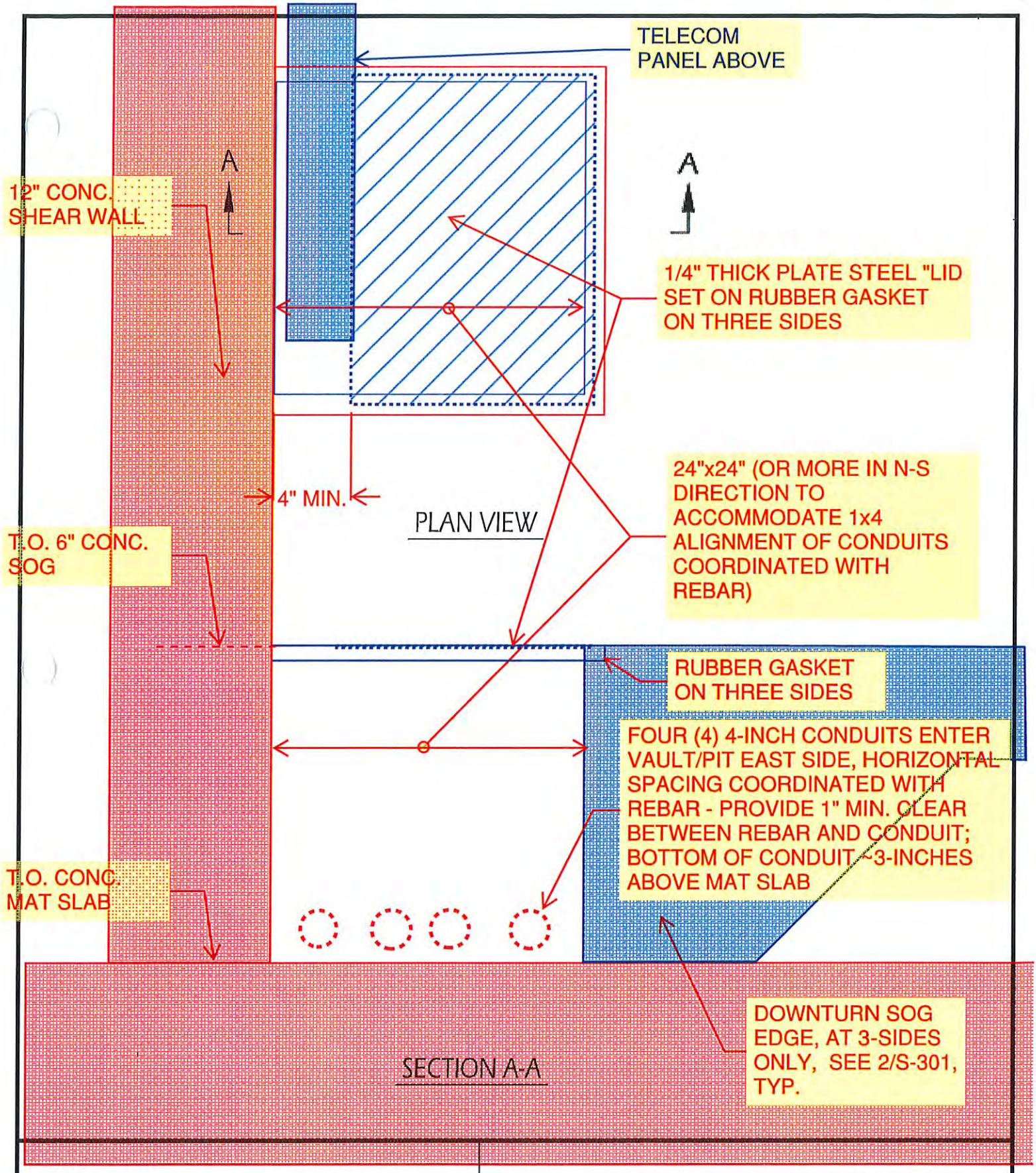
SANDIS
CIVIL ENGINEERS · SURVEYORS · PLANNERS

"SILICON VALLEY - THE VALLEY - CENTRAL VALLEY - EAST BAY"

HED
417 MONTGOMERY STREET
SUITE 400
SAN FRANCISCO, CALIFORNIA
94104 USA
(T) 415 991 2345
WWW.HED.DESIGN

Job No. & Title		Date
245042-00 Chabot College Biology Building		09/27/2018
Sketch No.	Drawing Title	
62	RFI 121.1 - Arup Response	
Extract from Drawing No.	Rev	Scale / Drawn By
C-300	0	NTS / KH, TW

File: X:\P\815003\PLAN SETS\C-300.dwg, 2017



RFI 0121.1
SECTION AND PLAN
AT VAULT/PIT
9/28/18

BME ELECTRICAL CONSTRUCTION, INC.

1281 30TH STREET
OAKLAND, CA 94608
OFFICE: 510.208.1967 FAX: 510.208.1966
CA C-10 # 887811

DATE: 7/30/18

TO: Bill Luce
WA Thomas, Inc,

RE: Chabot College B2100 Annex RFI #3

Below are RFI's the we have concerning the above refenced project.

Sheets Referenced: S-101, S-200, E-100, E-103 & T-101

1. There is a total of (6) 4" Underground Conduits going into Main Electrical Room on the First Floor. There is also a large pad foundation location underneath this room. From Top of Footing to Finish Floor is 24". We will need to install standard radius 90 fittings in order to accommodate this.
   a. Please verify that we will be allowed to use standard radius 90 fittings
   b. Please verify 24" Cover for these conduits will be allowed under slab.

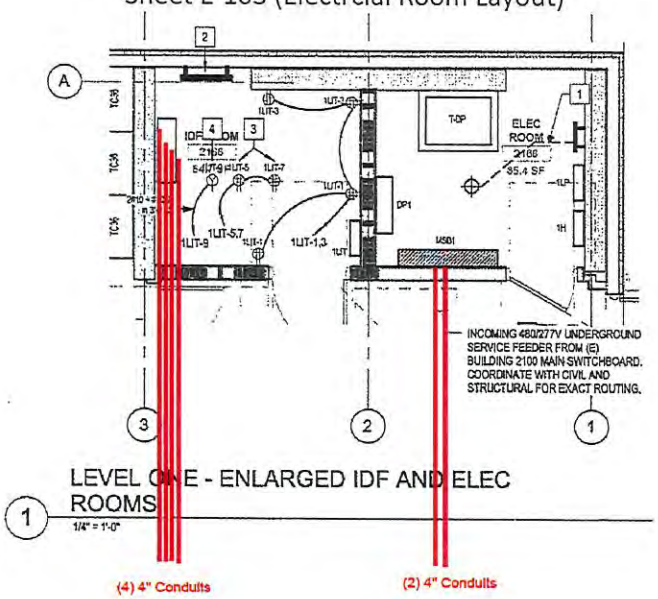
Please see attached drawings for clarification.

If there are any questions or concerns, please contact us.

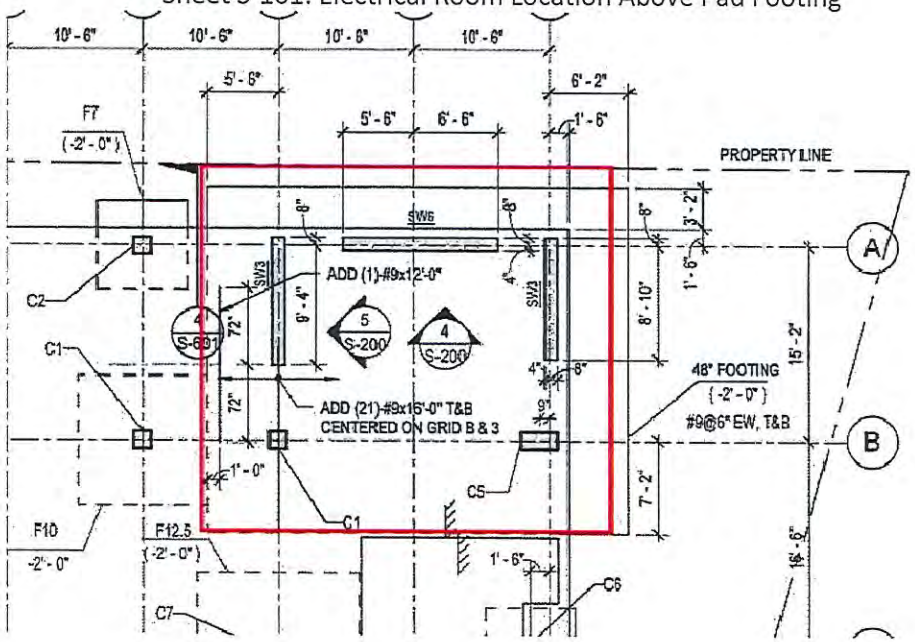
Sincerely,

Sasha McGraw- BME Electrical Construction, Inc.

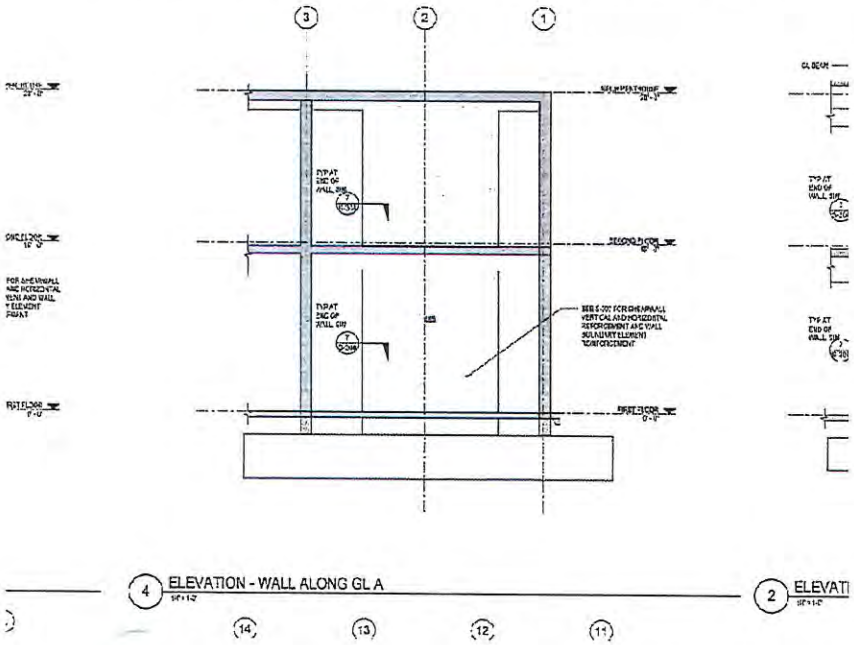
Sheet E-103 (Electrcial Room Layout)



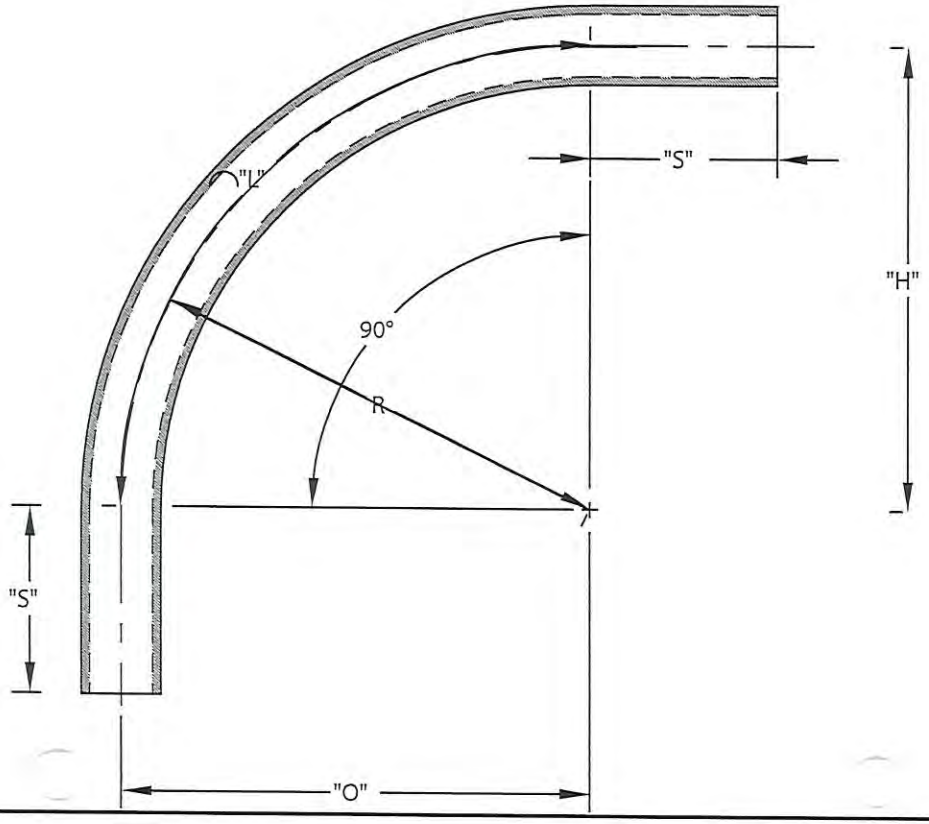
Sheet S-101: Electrical Room Location Above Pad Footing



Sheet S-200: Wall/Footing Elevation for Electrical Room



PART NUMBER	SIZE	"R"	"O"	"H"	"S" MIN	"B" MIN	"L"
5133823	½ "	4"	4"	4"	1 ½ "	N/A	6 ¼ "
5133824	¾"	4 ½ "	4 ½ "	4 ½ "	1 ½ "	N/A	7 ⅛ "
5133825	1"	5 ¾"	5 ¾"	5 ¾"	1 ⅞"	N/A	9"
5133826	1 ¼ "	7 ¼ "	7 ¼ "	7 ¼ "	2"	N/A	11 ⅜"
5133827	1 ½ "	8 ¼ "	8 ¼ "	8 ¼ "	2"	N/A	13"
5133828	2"	9 ½ "	9 ½ "	9 ½ "	2"	N/A	15"
5133829	2 ½ "	10 ½ "	10 ½ "	10 ½ "	3"	N/A	16 ½ "
5133830	3"	13"	13"	13"	3 ⅛ "	N/A	20 ⅜"
5133831	3 ½ "	15"	15"	15"	3 ¼ "	N/A	23 ½ "
5133832	4"	16"	16"	16"	3 ⅜"	N/A	25 ⅛ "
5133835	5"	24"	24"	24"	3 ⅝"	N/A	37 ⅝"
5133834	6"	30"	30"	30"	3 ¾"	N/A	47 ⅛ "



ETL LISTED
CONFORMS TO UL651
ETL CONTROL #3107144
CONFORMS TO NEMA TC3
SEE NEC ARTICLE 352 FOR USE
MATERIAL IS RIGID PVC
BEND TOLERANCE IS ±2°

Intertek

CANTEX INC.
Fort Worth, TEXAS

90° Elbows Plain End
Schedule 40 Standard Radius Elbows

Drawn By: CD Branch | Date: 10/15/07

W. A. THOMAS CO., INC.

2356 Pacheco Boulevard
Martinez, CA 94553

Telephone (925) 228-9600
FAX (925) 228-6932

FIELD REQUEST FOR INFORMATION NO.: 121

Robert L. Sands Jr.
Vanir CM.
E-Mail: Robert.sands@vanir.com

Date: July 31, 2018
Re: Chabot Bio-Science Annex
Pages Faxed: 4 WATCO Project: 518

Subject: Underslab Electrical Conduits
Spec. / Drwg: S-101, S-200,E-100, E-103, & T-101
Contractor: Barry McGraw Elect.

Info. Req: Please see attached BME RFI 3 dated 7/30/18: 1. There is a total of (6) 4" Underground Conduits going into Main Electrical Room on the First Floor. There is also a large pad foundation location underneath this room. From Top of Footing to Finish Floor is 24" . We will need to install standard radius 90 fittings in order to accommodate this.
a. Please verify that we will be allowed to use standard radius 90 fittings
b. Please verify 24" Cover for these conduits will be allowed under slab.

180814 TRIAGE- HED (GM): REFER TO SKETCH DIAGRAM PROVIDED IN LOWER RIGHT CORNER OF THE THIRD PAGE OF THIS PDF. IT SHOWS RELEVANT DIMENSIONS ASSOCIATED WITH THIS RFI.

1) ARUP ELECTRICAL TO CONFIRM "STANDARD RADIUS 90 FITTINGS" ARE ACCEPTABLE.
2) ARUP ELECTRICAL TO CONFIRM 24" COVER UNDER A 6" SOG IS ACCEPTABLE AND, IF NECESSARY, NOTE ANY ADDITIONAL PROVISIONS TO MAKE IT ACCEPTABLE.

Urgency: Med
Date Information Needed: 8/14/2018
Cost / ScheduleImpact: TBD
Bill Luce W. A. THOMAS CO. INC.

Project IOR:

RESPONSE: 180824 REPLY - HED (GM): PER ARUP RESPONSE - PAGE 2 OF THIS PDF - STANDARD RADIUS 90 FITTINGS AND 24" COVER UNDER A 6" SOG IS ACCEPTABLE(?); CONFIRMED PER OWNER STANDARDS(?).

By: G.MILLER 8/24/18
Response Date:

Sub Copy:

DSA Approval:

ARUP

Request for In

560 Mission Street, Suite 700
San Francisco, CA 94105
t +415 957 9445

CHABOT COLLEGE BI(

Received: 8
Returned: 8
Arup Project #: 2

Harley Ellis Devereaux
417 Montgomery St #400
San Francisco, CA 94104
Attention: Anna MacDougall

Subject: Underslab Electrical Conduits

Information Requested:

Please see attached BME RFI 3 dated 7/30/18: 1. There is a total of (6) 4" Underground Conduits Electrical Room on the First Floor. There is also a large pad foundation location underneath this r Footing to Finish Floor is 24" . We will need to install standard radius 90 fittings in order to accom
a. Please verify that we will be allowed to use standard radius 90 fittings

b. Please verify 24" Cover for these conduits will be allowed under slab.

Responses

Tori Wallis

No exception taken provided owner standards allow standard radius 90 fittings and 24" cover.

Anna MacDougall RIBA
Associate Principal | Project Management Leader

HED

415.549.8827 d | 415.416.9317 c
417 Montgomery Street, Suite 400 | **San Francisco**, CA 94104
amacdougall@hed.design | www.hed.design

LinkedIn | Twitter | Facebook | Instagram

W. A. THOMAS CO., INC.

Pacheco Boulevard
Martinez, CA 94553

Telephone (925) 228-9600
FAX (925) 228-6932

FIELD REQUEST FOR INFORMATION NO.: 121

Robert L. Sands Jr.
Vanir CM.
E-Mail: Robert.sands@vanir.com

Date: July 31, 2018
Re: Chabot Bio-Science Annex
Pages Faxed: 4 WATCO Project: 518

Subject: Underslab Electrical Conduits
Spec. / Drwg: S-101, S-200,E-100, E-103, & T-101
Contractor: Barry McGraw Elect.

Info. Req: Please see attached BME RFI 3 dated 7/30/18: 1. There is a total of (6) 4" Underground Conduits going into Main Electrical Room on the First Floor. There is also a large pad foundation location underneath this room. From Top of Footing to Finish Floor is 24" . We will need to install standard radius 90 fittings in order to accommodate this.
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Urgency: Med
Date Information Needed: 8/14/2018
Cost / ScheduleImpact: TBD
Project IOR:
Bill Luce W. A. THOMAS CO. INC.

RESPONSE: 180824 REPLY - HED (GM): PER ARUP RESPONSE - PAGE 2 OF THIS PDF - STANDARD RADIUS 90 FITTINGS AND 24" COVER UNDER A 6" SOG IS ACCEPTABLE(?); CONFIRMED PER OWNER STANDARDS(?).

By: G.MILLER 8/24/18
Response Date:

Sub Copy:
DSA Approval:

ARUP

Request for Information 0121

560 Mission Street, Suite 700
San Francisco, CA 94105
t +415 957 9445

CHABOT COLLEGE BIOLOGY ANNEX

Received: 8/15/2018
Returned: 8/23/2018
Arup Project #: 245042-00

Harley Ellis Devereaux
417 Montgomery St #400
San Francisco, CA 94104
Attention: Anna MacDougall

Subject: Underslab Electrical Conduits

Information Requested:

Please see attached BME RFI 3 dated 7/30/18: 1. There is a total of (6) 4" Underground Conduits going into Main Electrical Room on the First Floor. There is also a large pad foundation location underneath this room. From Top of Footing to Finish Floor is 24" . We will need to install standard radius 90 fittings in order to accommodate this.
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Responses

Tori Wallis

No exception taken provided owner standards allow standard radius 90 fittings and 24" cover.

BME ELECTRICAL CONSTRUCTION, INC.

1281 30TH STREET
OAKLAND, CA 94608
OFFICE: 510.208.1967 FAX: 510.208.1966
CA C-10 # 887811

DATE: 7/30/18

TO: Bill Luce
WA Thomas, Inc,

RE: Chabot College B2100 Annex RFI #3

Below are RFI's the we have concerning the above refenced project.

Sheets Referenced: S-101, S-200, E-100, E-103 & T-101

1. There is a total of (6) 4" Underground Conduits going into Main Electrical Room on the First Floor. There is also a large pad foundation location underneath this room. From Top of Footing to Finish Floor is 24". We will need to install standard radius 90 fittings in order to accommodate this.
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   b. Please verify 24" Cover for these conduits will be allowed under slab.

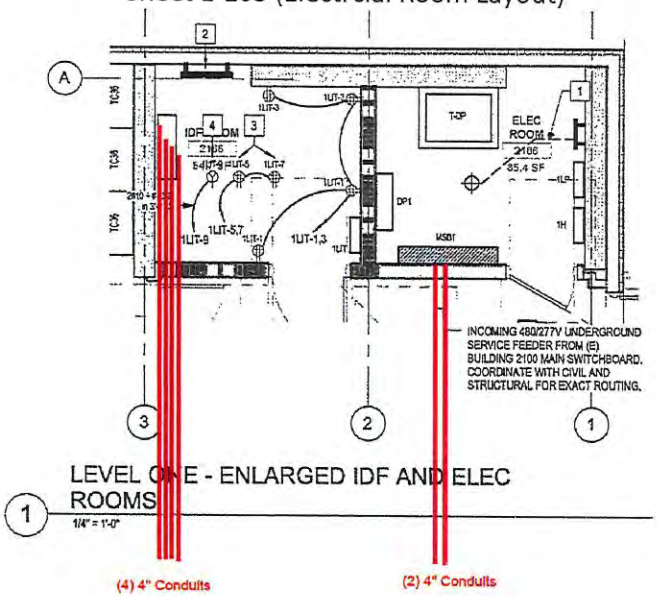
Please see attached drawings for clarification.

If there are any questions or concerns, please contact us.

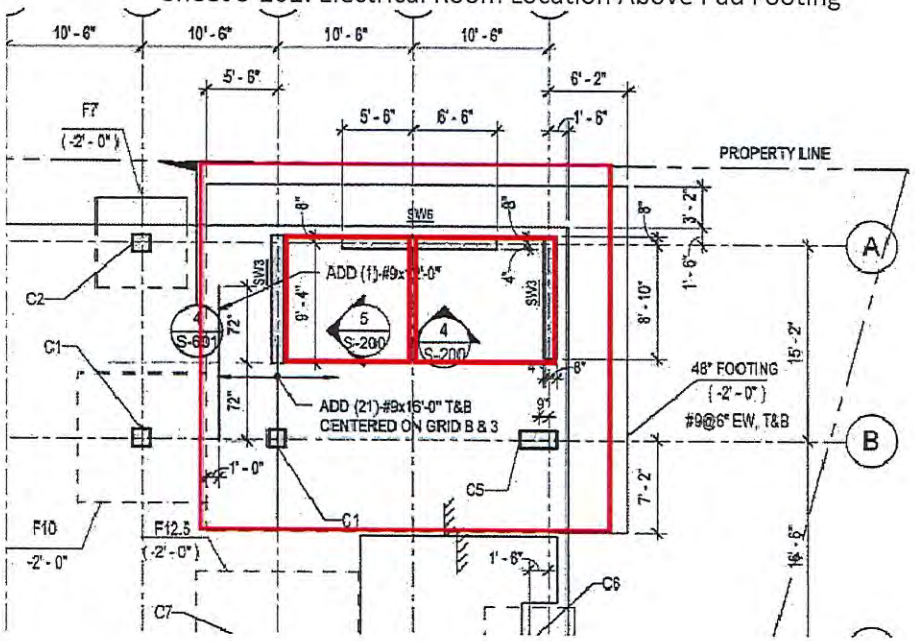
Sincerely,

Sasha McGraw- BME Electrical Construction, Inc.

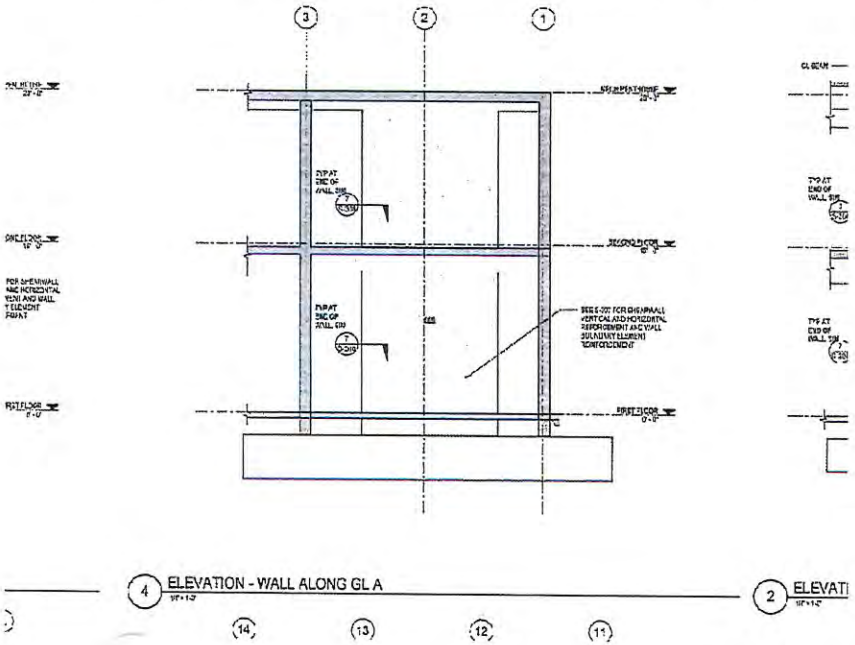
Sheet E-103 (Electrcial Room Layout)

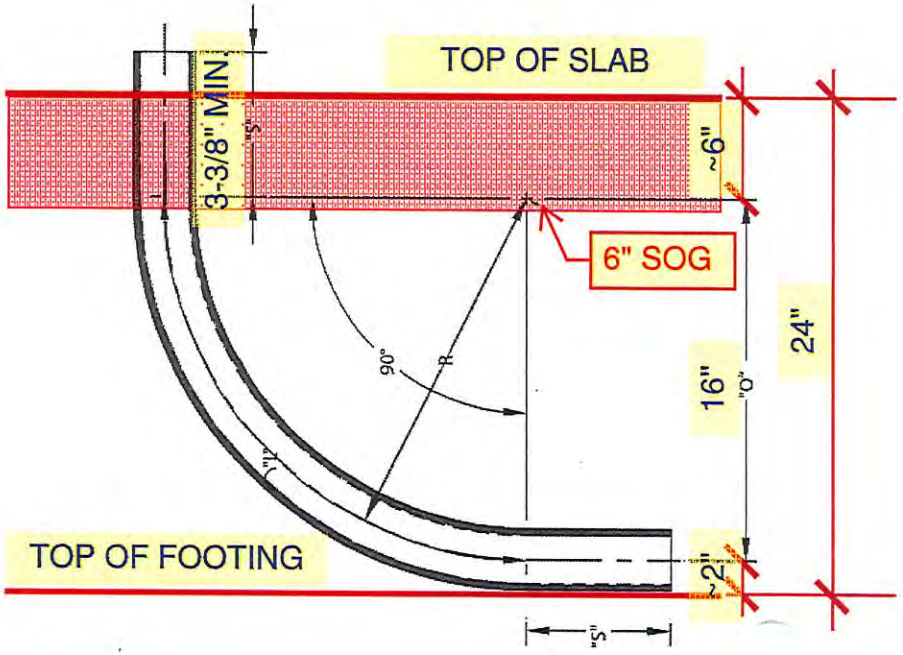


Sheet S-101: Electrical Room Location Above Pad Footing



Sheet S-200: Wall/Footing Elevation for Electrical Room





W. A. THOMAS CO., INC

2356 Pacheco Blvd
Martinez, CA 94553

Telephone (925) 228-9800
FAX (925) 228-6932

Biological Sciences B2100 Building Annex
Chabot College
25555 Hesperian Blvd., Hayward CA 94545

WATCO Job No. 518

CHANGE ESTIMATE No. 17321

2/22/2022

Item	Hrs	Material / Equip.	Labor	Subcontractor	Total
Change Description:					
Caulk and Paint flange of protruding electrical panels - CFD #114					
Breakdown of Estimated Subcontractor Costs:					
				$0	$0
				$0	$0
					$0
				$0	$0
Qualifications: Price for itemized work only listed on subcontractor quotation. Overtime excluded. Any extra work not noted or unforseen conditions will be priced separately.				$0	$0
				$0	$0
W. A. Thomas Co., Inc. Work				$0	$0
WATCO Labor tag dated 1/13/2022	5		$595	$0	$595
				$0	$0
				$0	$0
				$0	$0
Subtotal		$0	$595	$0	$595
Tax 10%					$0
15% on WATCO work					$89
5% on Subcontractor Costs					$0
1% Bond (GC)					$7
Total Lump Sum					**$691**

Additional Time: none

This quotation is based solely on the direct cost elements involved for the change noted and does not include any evaluation of the impact or the subject change upon the contract time or any costs related thereto. This quotation is only for the work described herein.

CE 17321

W.A. Thomas Co. Inc. **Extra work tag #:** 38

2356 Pacheco Blvd. Martinez Ca. 94553

TO: Eric Barger

CODE: CE 17321 / CFD 114 **DATE::** 1/13/2022

DISCRIPTION: Caulked and painted the flang of protruding electrical panels. Panels were thicker than the wall cavity, so they protruded.

MANPOWER: 1 HOURS: 1/10/22 5 hrs.

EQUIPMENT:

COMMENTS:

APPROVED BY: DATE_____

Chabot-Las Positas Community College District

Construction Field Directive

To: W.A. Thomas Co., Inc. **Field Dir.114**
Project: Biological Sciences B2100 Building Annex **Issue: 1/7/2022**

Description of Work:

- Provide all labor, materials, and equipment as required caulk the electrical panels, as described the 12/16/2021 email. See attached.

Reason for Directive:

- Work to proceed immediately.

Direction:

☐ Proceed with work on T&M Basis; submit T&M back-up daily.
Cost not to exceed $.00 estimate
Contractor shall notify Construction Manager when costs reach 80% of the Not to exceed amount.

☐ Provide Credit in the amount of $ (XX) for the additional service provided by the Architect as a result of non-conforming work.

☒ Proceed with work, submit signed T&M back-up daily.

The District reserves all rights and remedies under the contract.

☐ Proceed with work, work considered in scope of contract.

☐ Proceed with the work in accordance with the proposal CE xx dated xx xx, 2021 in the amount of $ xxx.00. x-day Time Extension.
The work will be added to the contract by change order only when and not until any contract time adjustment has been agree to.
The District reserves all its rights and remedies under the contract.

By _____ 1/7/2022
VanirCM, Inc. Construction Manager Date

By _____ 01/18/2022
Chabot College Campus Project Planner/Mgr. Date

San Diego: 3965 Fifth Avenue, Suite 400 | San Diego, CA 92103 T 619.297.0159
Raleigh: 555 Fayetteville Street, Suite 300 | Raleigh, NC 27601 T 919.213.7007

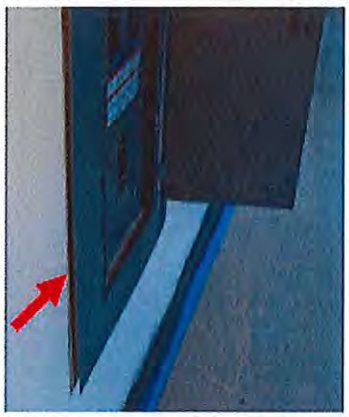
From: Rausch, David <drausch@hed.design>
Sent: Thursday, December 16, 2021 10:30 AM
To: Mark W. Ranyak <mwr@rfd.com>; John Fazio <jrf@rfd.com>
Cc: MacDougall, Anna <amacdougall@hed.design>; Myers, Michael <mmyers@hed.design>
Subject: FW: Chabot - Bio RFD FOR 9/30/21

Mark/John:

Regarding Item 129 in RFD Field Observation Report (site visit date 9/30/2021) (see image below), the CM notes that these Electrical panels are located in a D3 shaft wall. (See below 6" CH Stud Diagram.) With the 1" liner this wall depth is not sufficient for fully recessing the specified panelboards. Would it be acceptable to install backer rod/caulking around the perimeter flange of the electrical panel to fill the "gap"? The caulking can be painted to match the wall color. (The electrical panel has since been painted). Please advise. Thank you.

Biological Sciences Building B2100 Building Annex
Chabot College
RFD Project No. 1-2014018-03

Page 13

129	Lab Electrical	12/18/20: Ensure all panelboards are completely secured and flush with adjacent finished surfaces. Gaps are not acceptable. 9/30/21 STATUS: NOT CORRECTED (OPEN ITEM). BME Because of duct work wall is to shallow for panel. Panel is in as deep as possible. Someone need to come up with a fix.	

Regards,

David Rausch AIA, LEED Green Associate, CCS, CCCA
Associate | Architecture

415.800.5978 d
417 Montgomery St., Suite 400 | **San Francisco**, CA 94104
drausch@hed.design | www.hed.design

LinkedIn | Facebook | Instagram

From: Barger, Eric <eric.barger@vanir.com>
Sent: Thursday, December 16, 2021 8:42 AM
To: Myers, Michael <mmyers@hed.design>; Rausch, David <drausch@hed.design>
Cc: MacDougall, Anna <amacdougall@hed.design>; Brown, Alaine <Alaine.Brown@vanir.com>
Subject: Chabot - Bio RFD FOR 9/30/21

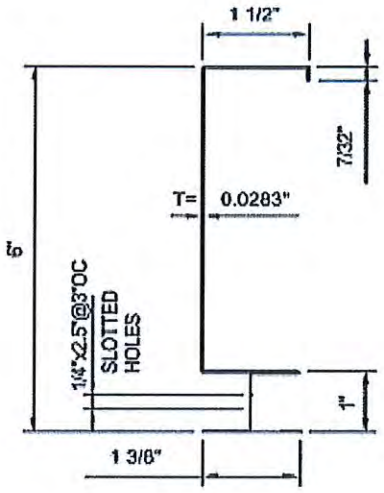
External Email:
Michael and David,

The above FOR notes in item 131 that the electrical panels are to be flush to the finish. These panels are located in a D3 shaft wall. (See below) With the 1" liner this wall depth is not sufficient for the specified panelboards.

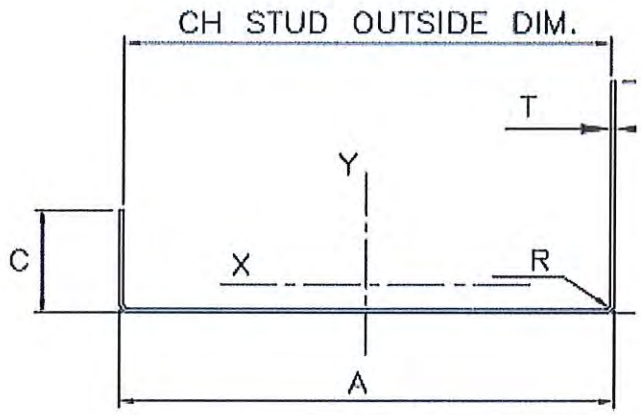
Can HED please provide a recommendation?

(dimension) is available with 1" and 2" flanges.

6" C-H Stud Diagram



J - Track Diagram



STEELER J–TRACK

Thank you,

Eric Barger
Senior Construction Manager

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