



Strand Associates, Inc.®
1170 South Houbolt Road
Joliet, IL 60431
(P) 815.744.4200
www.strand.com

February 5, 2024

Mr. Blaine Kline, Director of Public Works
City of Crest Hill
20600 City Center Boulevard
Crest Hill, IL 60403

Re: West Sewage Treatment Plant (STP) Improvements
Change Order No. 4
City of Crest Hill, Illinois (City)

Dear Blaine,

Three copies of the enclosed Change Order No. 4 have been delivered to Vissering Construction Company (Contractor) for review and signature. If approved, please sign all three copies, return two copies to Strand Associates, Inc.® (Strand), and keep one copy for the City's records. All items in Change Order No. 4 are in the best interest of the City to be included. The following is a summary of the changes.

Item 4a deducts cost from the construction Contract for downsizing the force main size exiting Process Return Flow Pumping Station (77) and associated fittings. This was due to the savings proposed from the Contractor to downsize the vault as noted in Change Order No. 3. As the size of Structure 77 has been reduced, pipe sizing and associated fittings are to be reduced as well.

Item 4b adds cost to the construction Contract for the inclusion of the West STP to the City Hall's Open Options platform. This addition was included at the City's request to migrate from the existing Vanderbilt access control system to the new Open Options platform used at new City facilities.

Item 4c deducts cost from the construction Contract for the modification of doors that are to receive access control door strikes. The City previously requested to provide door strikes for all the electrical and motor control center rooms and several exterior doors at the Dewatering and Operations Building (E70). The City has decided to remove some door strikes from the Contract, primarily based on access frequency and security needs.

Item 4d adds cost to the construction Contract for the modification of spacing between the Influent Pump Station (15) force mains and the floor doors in the top slab. The pipes will be shifted to the west to avoid conflict with the discharge pipes and the floor doors. This was a result of unforeseen conflicts with the floor doors and rebar following the shop drawing reviews.

Item 4e adds cost to the construction Contract for the relocation of the Tertiary Filter Building (C45) Filter Control Panels. During shop drawing review, the equipment manufacturer indicated that control panel dimensions could not be modified to placed where shown on the drawings. As a result, plumbing and panel placement updates were required.

Item 4f adds cost to the construction Contract for the modification of spacing between the Ultraviolet Disinfection Structure (47) disinfection equipment and its respective control panels within

DLG:amm\S:\JOL\3800-3899\3894\048\Construction\Change Orders\CO-004\Working Docs\CO-004 - letter.docx

Mr. Blaine Kline, Director of Public Works
City of Crest Hill
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Structure E70. The control panel was shifted to minimize the total distance between the panel and disinfection equipment. The placement also requires new guard posts.

Item 4g adds cost to the construction Contract for the modification of the Excess Flow Clarifier (60) scum baffle elevation. During shop drawing review, the Excess Flow Clarifier manufacturer requested modifications to the elevations shown in the Drawings for optimal performance. As a result, the scum baffle plates are being raised to a higher elevation using extra hardware.

Change Order No. 4 adds \$43,398. The total value of all change orders is a deduct of \$1,281,819. Change Order No. 4 does not include a modification to the construction schedule.

If you have any questions, please call 815-744-4200.

Sincerely,

STRAND ASSOCIATES, INC.®



Dominic L. Gattone P.E.

Enclosures



February 5, 2024

CHANGE ORDER NO. 4

PROJECT: West Sewage Treatment Plant (STP) Improvements
OWNER: City of Crest Hill, Illinois
CONTRACT: 1-2022
CONTRACTOR: Vissering Construction Company

Description of Change

4a	Work described in the enclosed Contractor's Cost Proposal Request (CPR) 009 (dated June 6, 2023) and enclosed Engineer's CPR 009 (dated September 1, 2023), including the credit related to revisions to the force main size exiting Structure 77.	(DEDUCT)	(\$1,355)
4b	Work described in the enclosed Contractor's Change Order Request (COR) 005 (dated July 25, 2023) and enclosed Engineer's COR 005 (dated July 25, 2023) related to the Owner's request to include the West STP on the Open Options platform.	ADD	\$7,674
4c	Work described in the enclosed Contractor's CPR 011 (dated August 3, 2023) and enclosed Engineer's CPR 011 (dated August 30, 2023), including the credit related to the modification of doors that are to receive access-control door strikes.	(DEDUCT)	(\$452)
4d	Work described in the enclosed Contractor's CPR 012 (dated August 10, 2023) and enclosed Engineer's CPR 012 (dated October 9, 2023) related to the modification of spacing between the Structure 15 force mains and their respective floor doors in the Influent Pump Station top slab.	ADD	\$13,668
4e	Work described in the enclosed Contractor's CPR 013 (dated September 9, 2023) related to the relocation of the Structure C45 Filter Control Panels.	ADD	\$16,445

City of Crest Hill–Vissering Construction Company
 Contract 1-2022, Change Order No. 4
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4f	Work described in the enclosed Contractor’s revised CPR 015 (dated January 24, 2024) related to the modification of spacing between the Structure 47 ultraviolet disinfection equipment and its respective control panels within Structure E70.	ADD	\$5,792
4g	Work described in the enclosed Contractor’s COR 007 (dated November 2, 2023) related to the modification of the Excess Flow Clarifier scum baffle elevation, in accordance with manufacturer’s recommendation.	ADD	\$1,626
TOTAL VALUE OF THIS CHANGE ORDER:		ADD	\$43,398

Contract Price Adjustment

Original Contract Price	\$50,640,000
Previous Change Order Adjustments	(\$1,325,217)
Adjustment in Contract Price this Change Order	\$43,398
Current Contract Price including this Change Order	\$49,358,181

Contract Substantial Completion Date Adjustment

Original Contract Substantial Completion Date	December 1, 2024
Contract Substantial Completion Date Adjustments due to previous Change Orders	548 days
Contract Substantial Completion Date Adjustments due to this Change Order	0 days
Current Substantial Contract Completion Dates including all Change Orders	June 1, 2026

Contract Final Completion Date Adjustment

Original Contract Final Completion Date	March 1, 2025
Contract Final Completion Date Adjustments due to previous Change Orders	640 days
Contract Final Completion Date Adjustments due to this Change Order	0 days
Current Final Contract Completion Dates including all Change Orders	December 1, 2026

City of Crest Hill–Vissering Construction Company
Contract 1-2022, Change Order No. 4
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This document shall become a supplement to the Contract and all provisions will apply hereto.

RECOMMENDED



February 5, 2024

ENGINEER–Strand Associates, Inc.®

Date

APPROVED

CONTRACTOR–Vissering Construction Company

Date

APPROVED

OWNER–City of Crest Hill, Illinois

Date



WORK DESCRIPTION
Per CPR009 - Structure 77 Pipe Changes with enclosures

Date: August 31, 2023

**CREST HILL WEST SEWAGE
TREATMENT PLANT IMPROVEMENTS
CITY OF CREST HILL**

FROM:

G A Rich & Sons, Inc.
P O Box 50
Deer Creek, IL 61733

PROJECT:

Crest Hill
West Plant upgrades

JOB NUMBER:

22-5-16

RFP#

CPR 009 STR 77 Piping Modifications

REV 1

809

CONTRACT WORK:

Process Piping / Plumbing

I DESCRIPTION OF CHANGE:

Reduce piping in wet well and valve vault from 8" to 6". Eliminate 8"x6" Reducers in the wet well, and bolt directly to pump bases. Install 8" overflow in wet well and tie into 8" Drain line as shown in Strand markups.

II SUMMARY OF DETAILED BREAKDOWN:

	Additions	Deletions	Net Total
A. MATERIAL	<u>-\$2,499.00</u>	<u></u>	<u>-\$2,499.00</u>
B. LABOR	<u>\$852.00</u>	<u></u>	<u>\$852.00</u>
C. EQUIPMENT	<u>\$810.00</u>	<u></u>	<u>\$810.00</u>
D. OTHER COSTS			
1 TAX EXEMPT	8.25% of MAT) - Deletion -0-		<u>\$0.00</u>
2 EXPENDABLE TOOLS	(2.5% of LABOR) - Deletion -0-		<u>\$0.00</u>
E. SUB TOTAL	(A+B+C+D1+D2)		<u>-\$837.00</u>
F. OVERHEAD AND PROFIT	(E x 15%) - Deletion -0-		<u>\$0.00</u>
G. TOTAL	(E + F)		<u>-\$837.00</u>

III CONTRACTOR'S MARK-UP ON WORK OF SUBCONTRACTORS

Detailed Breakdowns and Summaries from each Sub-Contractor must be attached.

	SUBCONTRACTOR: Firm Name	CONTRACT WORK: Description	PROPOSAL
1	<u></u>	<u></u>	<u></u>
2	<u></u>	<u></u>	<u></u>
3	<u></u>	<u></u>	<u></u>
4	<u></u>	<u></u>	<u></u>
H			
I		(H x 6%) - Deletion -0-	<u>\$0.00</u>

IV FINAL SUMMARY

J PROPOSAL	(G+H+I)	<u>-\$837.00</u>
K BONDS	(2.5% of PROPOSAL) - Deletion -0-	<u>\$0.00</u>
L BUILDER'S RISK INSURANCE (if applicable)	(0.3% of PROPOSAL) - Deletion -0-	<u></u>
M TOTAL PROPOSAL for subject RFP increase (decrease) in contract amount		<u>-\$837.00</u>
N Time added to contract	<u>1</u> Calendar Days	

CONTRACTOR

SIGNATURE Bret Verardo

TITLE Project Manager DATE 08/30/23

CREST HILL WEST, SEWAGE
TREATMENT FACILITY UPGRADES
CITY OF CREST HILL

Description of Material, Labor & Equipment Rental	Qty	Unit Price Material	Total Estimated Material Cost	Unit Price Labor	Total Estimated Labor Cost	Unit Price Rental	Total Estimated Rental Cost	Subcontractor Cost
8" to 6" Piping credit								
Pipefitter foreman	-4			\$108.00	-\$432.00			
Pipefitter	-4			\$100.00	-\$400.00			
Truck w/tools	-4					\$25.00	-\$100.00	
8"x6" Reducer	-2	\$557.00	-\$1,114.00					
8" Spools and Fittings	-1	\$14,145.00	-\$14,145.00					
6" Spools and fittings	1	\$11,654.00	\$11,654.00					
Fitting Restock/Shipping Fee	-1	\$615.00	-\$615.00					
8" overflow Drain in Wet well								
Pipefitter foreman	8			\$108.00	\$864.00			
Pipefitter	4			\$100.00	\$400.00			
Operator	4			\$105.00	\$420.00			
Excavator	4					\$140.00	\$560.00	
Truck w/tools	4					\$25.00	\$100.00	
8" C900 Pipe	20.0	\$28.00	\$560.00					
8" MJ wye	1	\$976.00	\$976.00					
8" Cor-n-Seal boot	1	\$80.00	\$80.00					
8" Core drill	1	\$250.00				\$250.00	\$250.00	
Pipe bedding stone	3	\$35.00	\$105.00					
TOTALS			-\$2,499.00		\$852.00		\$810.00	



Cost Proposal Request
West Sewage Treatment Plant Improvements
City of Crest Hill
Contract 1-2022
June 6, 2023

COST PROPOSAL NO.: 009

TO: Vissering Construction
ISSUED BY: Dominic Gattone, P.E.

DISTRIBUTION

Tony Marzetta, Project Manager	Vissering Construction (Contractor)
Mark Siefert	City of Crest Hill
Dominic Gattone, P.E.	Strand Associates, Inc.®

Please submit an itemized quotation for changes in the Contract Price and Time incidental to proposed modifications to the Contract Documents described herein.

DESCRIPTIONS AFFECTING THE DRAWINGS

009-01 Drawing 05-M1.01 (Sheet 37)

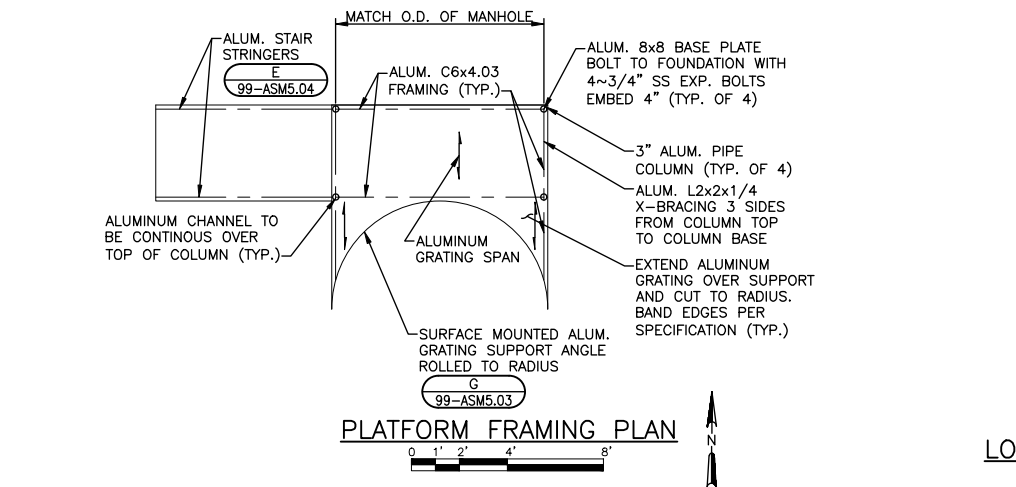
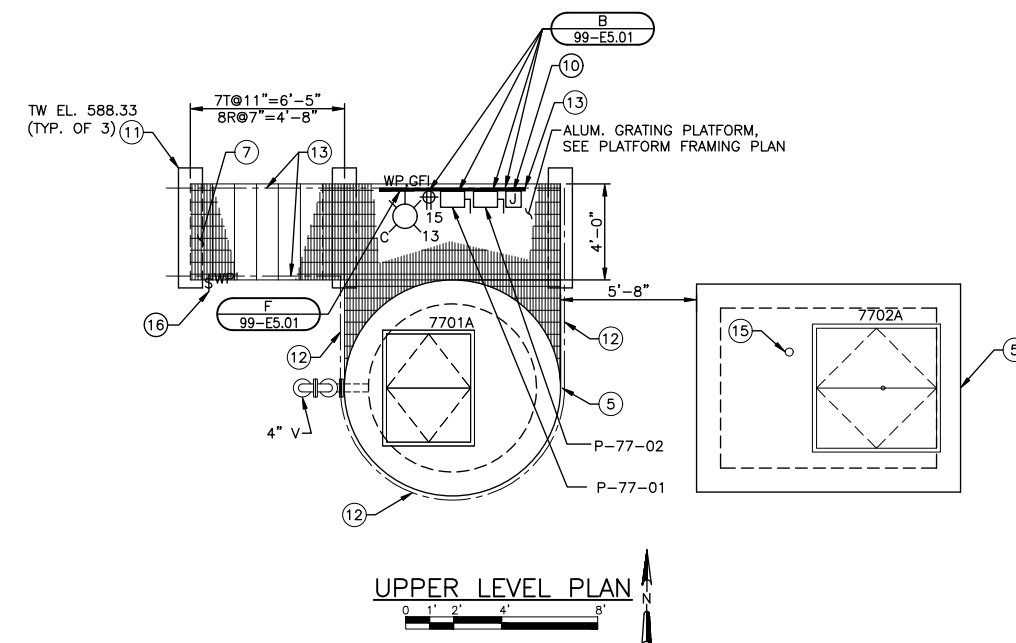
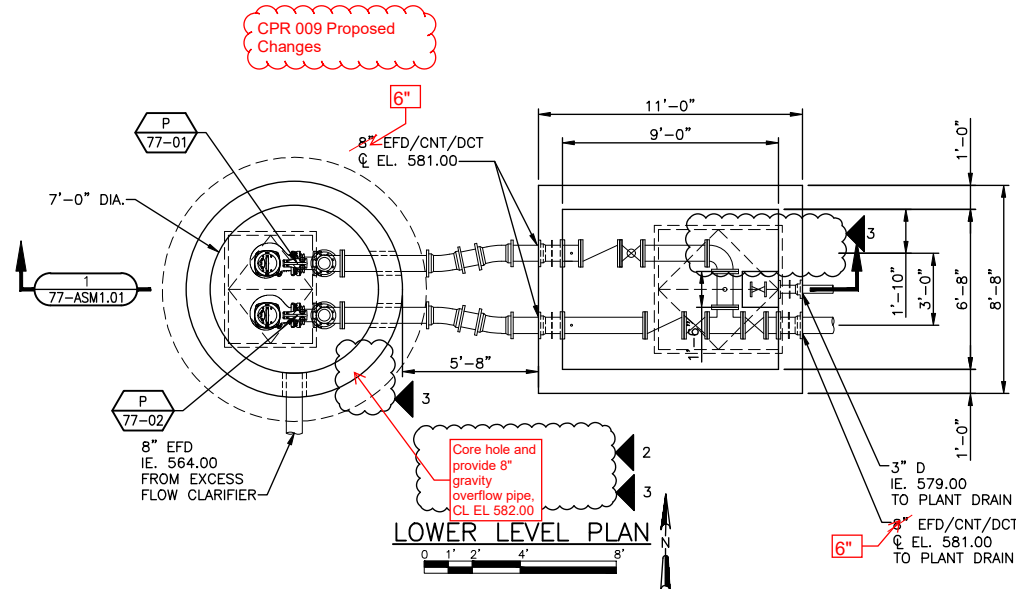
Refer to the attached updated drawing showing revisions to the force main size exiting Structure 77 to decrease the force main size to 6" diameter.

009-02 Drawing 05-M1.01 (Sheet 37)

Refer to the attached updated drawing showing revisions to add an 8" diameter high water overflow from the Structure 77 wet well and fittings in the yard to attach to the plant drain.

009-03 Drawing 77-ASME1.01 (Sheet 207)

Refer to the attached updated drawing showing revisions.





Change Order Request #: COR005

Date: 7/25/2023
A/E Project #:)FPR No. 184-001273
VCC Project #: 11108.00

Per RFI022 Response - Owner desires the West STP to also be on the Open Options Platform - provide pricing to change the Vanderbilt System to Open Options

ACCEPTANCE OF PROPOSAL (OWNER): City of Crest Hill

	Contractor's Net:	\$	-
	Sub-Contractor's Net:	\$	7,236.00
	Net Subtotal:	\$	7,236.00
Contractor's Fee: (15% on Own Work, 5% on Subs, & 0% on Credits):	\$	361.80	
	Sub-Total:	\$	7,597.80
	Bonds & Insurance - 1%:	\$	75.98
	Worksheet Total:	\$	7,674.00

Bonds & Insurance - 1%:	\$	75.98
Worksheet Total:	\$	7,674.00

Worksheet Total: \$ 7,674.00

Date: _____

Date: July 25, 2023



CONNELLY
ELECTRIC

40 S. Addison Rd.
Suite 100
Addison, IL 60101

CHANGE NOTICE

Connelly CCN # 10
Field Ticket #
Date: 7/24/2023
Project Name: Crest Hill WWTP - West Sewage Treatment Plant
Project Number: Crest Hill WWTP - West Sewage Treatment Plant
Page Number: 1

Client Address:

Vissering Construction

1631 Gaylord Rd.
Crest Hill, IL 60403
Contact: Tony Marazetta

Work Description

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within **10** days from the date of receipt.
We request a time extension of **3** days.
We will supply and install all materials, labor, and equipment as per your instructions on **Connelly CCN # 10**.

Description: Change from Vanderbuilt to Open Options Access Control System per Strand from the owner

Itemized Breakdown

Summary

Subs	(\$6,892.00 + 0.000 % + 0.000 % + 5.000 %)	7,236.60
Subtotal		7,236.60
Final Amount		\$7,236.60

CLIENT ACCEPTANCE

Connelly CCN # 10
Final Amount: \$7,236.60

Name: _____

Date: _____

Signature: _____

Change Order #: _____

I hereby accept this quotation and authorize the contractor to complete the above described work.



where success is measured one project at a time

REQUEST FOR INTERPRETATION

Project: **West Sewage Treatment Plant Improvements
for the City of Crest Hill, Illinois
1631 Gaylord Road, Crest Hill, IL 60403**

R.F.I. Number: **022**

From: **Vissering Construction Company**

To: **Strand Associates – Attn: Dominic Gattone
1170 S Houbolt Road, Joliet, IL 60431**

Date: **March 1, 2023**

Engineer Project Number: **3894.036**

Re: **Access Control System Clarifications**

Vissering Job Number: **11108.00**

Specification Section:

Paragraph:

Drawing Reference:

Detail:

Request:

Request from Connelly Electric:

The project specifications call for a Vanderbilt access control system. This is the system that is installed at the current City Hall facility. At the new City Hall facility, they have Open Options installed and they want to migrate all systems to the Optn Option platform so that one system can maintain all access control systems and databases.

Once the City moves to the new City Hall facility, the existing Vanderbilt system will be eventually retired once all buildings connected are retired. Please advise if a change in the project specifications is desired to allow for the installation of Open Options in lieu of Vanderbilt to avoid a re-installation in the future.

Engineer's clarification could result in additional costs.

Signed by: **Tony Marzetta – Project Manager**

Date: **03/01/2023**

Response

SAI:

Owner desires the West STP to also be on the Open Options platform. Please provide proposal to change the Vanderbilt system to Open Options.

☐ Attachments

Response From:

To:

Date Rec'd:

Date Ret'd:

Signed by: **Dominic Gattone**

Date: **04/25/2023**

Copies: ☐ Owner ☐ Consultants ☐ _____ ☐ _____ ☐ _____ ☐ _____ ☐ File

Email Quote

Date: August 15, 2023
To: Julie Eurich
Company: Vissering Construction

Total Pages: 1
From: Cole Cartrette
Phone: (920) 491-5913
(800) 672-6795 ext. 291301
E-mail: Cole.Cartrette@laforceinc.com

**Re: West Sewage
Crest Hill, IL**

LaForce Job#: 47390

Julie,

Your price for changes made in the returned submittal is \$2,712.00 (Tax Exempt). Included in you cost is the following:

1001B		Revised to hardware set 9 from 2
ADD HDWR		Revised from Mortise lock to Rim exit device
OMIT HDWR		Omit electric strike
2003A/C	OMIT HDWR	Omit electric strike
4501A		Revised to hardware set 1 from 11
OMIT HDWR		omit electric strike
4504/7002A		Revised to set 12 from 11
ADD HDWR		Revised from Mortise lock to Mortise exit device
7005A/C		Revised to set 13 from 2
ADD HDWR		Revised form Mortise lock to Rim exit device
ADD HDWR		Revised to Rim Electric strike
7006A	OMIT HDWR	Omit electric strike
7017A		Revised to set 08 from 01
ADD HDWR		Revised from Mortise lock to Rim exit device

Please provide your written authorization of this quote if we are to proceed with these changes.
No material can be ordered without your written authorization.

Please call with any questions.

Cole Cartrette
Cc. Angelica Kielbasa - LaForce

Authorized by: _____

Company name: _____

Date: _____

This quote is subject to prompt acceptance within 30 calendar days from the date of this quote first noted above.
If not accepted by that date it may be withdrawn or modified by LaForce.



Proposal

August 23, 2023

Mr. Tony Marazetta
Vissering Construction
1631 Gaylord Rd.
Crest Hill, IL 60403
P: 815.673.5511
C:
Email: tmarzetta@vissering.com

Re: Cost Proposal Request 011 – Access Control Electric Door Strike Changes

Connelly Electric proposes to furnish the materials and perform the labor necessary for the completion of the above referenced project per electrical plans dated 04/13/23 as described below:

Scope of Work:

- Drawing A10-E1.01 (Sheet 61)
 - Removal of the Access Control at door 1001B
- Drawing B20-E1.01 (Sheet 86)
 - Removal of Access Control at door 2003C
 - Addition of Access Control at door 2002A
- Drawing C45-E1.01 (Sheet 130)
 - Removal of Access Control at door 4501A
- Drawing D50-E1.01 (Sheet 156)
 - Removal of Access Control at door 5002A
- Drawing E70-E1.01 (Sheet 197)
 - Addition of Access Control at door 7005A

This proposal is based on acceptance within thirty days and 100% completion prior to June 1, 2024. All work to be performed in a neat and workmanlike manner in accordance with Connelly Electric Company Standards and our interpretation of the scope drawings and specifications. Monthly progress payments are to be made as the job proceeds. Final payment is to be made within 30 days of completion.

Base bid per Scope of Work and Exclusions above = Credit of (3,566.00)

Respectfully submitted,

Alex Szepelak
Connelly Electric Co.

Accepted by: _____ Date: _____

Title: _____

Cost Summary Sheet

Connelly Electric
Crest Hill West Sewage Treatment Plant Improvements

CRP No.: 011

Date 8/23/2023

Description: Access Control Door Strike Changes

LABOR									
	LABOR Description	Hours	Wage/Hr	Fringe/Hr	Subtotal Labor/Hr	LABOR WAGES & BENEFITS	PR Taxes & Ins/Hr	LABOR TAXES & INSURANCE	TOTAL LABOR
100	ELECTRICIAN JM ST (Local #176A) 1st SHIFT	-11.56	\$ 52.00	\$ 45.82	\$ 97.82	\$ (1,130.80)	\$ 15.32	\$ (177.09)	\$ (1,307.89)
103	ELECTRICIAN FM ST (Local #176A) 1st SHIFT	-3.85	\$ 56.68	\$ 46.01	\$ 102.69	\$ (395.36)	\$ 16.70	\$ (64.29)	\$ (459.64)
SUBTOTAL		(15.41)				\$ (1,526.16)		\$ (241.38)	\$ (1,767.53)
						\$ -		\$ -	\$ -
TOTAL LABOR								\$ -	\$ (1,767.53)

EQUIPMENT					HOURLY RATE	TOTAL EQUIPMENT
	EQUIPMENT Description	Hours				
						\$ -
						\$ -
						\$ -
						\$ -
TOTAL EQUIPMENT						\$ -
						\$ -
EQUIPMENT TOTAL						\$ -

MATERIAL						UNIT RATE	TOTAL MATERIALS
	MATERIALS Description	Qty	Unit				
	Materials (See Attached)	1	LS	See Accubid Summary		(687.25)	\$ (687.25)
							\$ -
							\$ -
SUBTOTAL							\$ (687.25)
							\$ -
TOTAL MATERIAL							\$ (687.25)

SUBCONTRACT							UNIT RATE	TOTAL SUB RATE
	SUBCONTRACT Description	Qty	Unit					
	Low Voltage Solutions	1	LS	See quote attached		\$ (1,120.00)		\$ (1,120.00)
								\$ -
								\$ -
								\$ -
SUBTOTAL								\$ (1,120.00)
								\$ -
TOTAL SUBCONTRACT								\$ (1,120.00)
SUBTOTAL								\$ (3,574.78)

TOTAL PRICE Rounded -\$3,575.00



CONNELLY
ELECTRIC

40 S. Addison Rd.
Suite 100
Addison, IL 60101

Client Address:

Vissering Construction

1631 Gaylord Rd.
Crest Hill, IL 60403
Telephone: 815.673.5511
Contact: Tony Marazetta

CHANGE NOTICE

Connelly CCN # 11
Field Ticket #
Date: 8/23/2023
Project Name: Crest Hill WWTP - West Sewage Treatment Plant
Project Number: 22-0686
Page Number: 1

Work Description

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within **10** days from the date of receipt.
We request a time extension of **0** days.
We will supply and install all materials, labor, and equipment as per your instructions on **Connelly CCN # 11**.

Description: Changes to Access Control (CPR-011)

Itemized Breakdown

Area	Material(\$)	Mat(%)	Labor Hrs	Lab(%)
Sheet 197 E70-E1.01	360.43	-53.14	8.59	-55.74
Sheet 86 B20-E1.01	0.00	-0.00	0.00	-0.00
Sheet 156 D50-E1.03	-223.31	32.92	-5.56	36.08
Sheet 130 C45-E1.01	-541.43	79.83	-11.89	77.16
Sheet 61 A10-E1.01	-273.94	40.39	-6.55	42.50
Total	-678.25	100.00	-15.41	100.00

Sheet 197 E70-E1.01

Phase	Material(\$)	Mat(%)	Labor Hrs	Lab(%)
MAIN FLOOR	360.43	100.00	8.59	100.00
Total	360.43	100.00	8.59	100.00

Sheet 197 E70-E1.01 / MAIN FLOOR

Description	Qty	Total Mat.	Total Hrs.
3/4" GRC (GALV)	70	253.79	4.20
3/4" GRC 90 ELBOW	2	18.50	0.80
3/4" STEEL LOCKNUT	4	1.09	0.48
3/4" GRC STRUT CLAMP	12	17.65	0.36
1G MAS-BOX 2-1/2 DEEP	1	12.91	0.35
P-1000 1 5/8" STRUT	10	56.48	2.40
Totals	99	360.42	8.59

Sheet 86 B20-E1.01

Phase	Material(\$)	Mat(%)	Labor Hrs	Lab(%)
MAIN FLOOR	0.00	0.00	0.00	0.00
Total	0.00	100.00	0.00	100.00

Sheet 86 B20-E1.01 / MAIN FLOOR

Description	Qty	Total Mat.	Total Hrs.
3/4" GRC (GALV)	0	0.00	0.00

CHANGE NOTICE

Connelly Electric

40 S. Addison Rd.
Addison, IL 60101

Connelly CCN #

11

Date:

8/23/2023

Project Name:

Crest Hill WWTP - West Sewage Treatment Plant

Project Number:

22-0686

Page Number:

2

Client Address:

Vissering Construction

1631 Gaylord Rd.
Crest Hill, IL 60403

Description	Qty	Total Mat.	Total Hrs.
3/4" GRC 90 ELBOW	0	0.00	0.00
3/4" STEEL LOCKNUT	0	0.00	0.00
3/4" GRC STRUT CLAMP	0	0.00	0.00
1G MAS-BOX 2-1/2 DEEP	0	0.00	0.00
P-1000 1 5/8" STRUT	0	0.00	0.00
2" CORE WALL/FIRE PROOF	0	0.00	0.00
Totals	0	0.00	0.00

Sheet 156 D50-E1.03

Phase	Material(\$)	Mat(%)	Labor Hrs	Lab(%)
MAIN FLOOR	-223.31	100.00	-5.56	100.00
Total	-223.31	100.00	-5.56	100.00

Sheet 156 D50-E1.03 / MAIN FLOOR

Description	Qty	Total Mat.	Total Hrs.
3/4" GRC (GALV)	-42	-152.27	-2.52
3/4" GRC 90 ELBOW	-2	-18.50	-0.80
3/4" STEEL LOCKNUT	-4	-1.09	-0.48
3/4" GRC STRUT CLAMP	-7	-10.30	-0.21
1G MAS-BOX 2-1/2 DEEP	-1	-12.91	-0.35
P-1000 1 5/8" STRUT	-5	-28.24	-1.20
Totals	-61	-223.31	-5.56

Sheet 130 C45-E1.01

Phase	Material(\$)	Mat(%)	Labor Hrs	Lab(%)
MAIN FLOOR	-541.43	100.00	-11.89	100.00
Total	-541.43	100.00	-11.89	100.00

Sheet 130 C45-E1.01 / MAIN FLOOR

Description	Qty	Total Mat.	Total Hrs.
3/4" GRC (GALV)	-116	-420.56	-6.96
3/4" GRC 90 ELBOW	-2	-18.50	-0.80
3/4" STEEL LOCKNUT	-4	-1.09	-0.48
3/4" GRC STRUT CLAMP	-14	-20.59	-0.42
1G MAS-BOX 2-1/2 DEEP	-1	-12.91	-0.35
P-1000 1 5/8" STRUT	-12	-67.78	-2.88
Totals	-149	-541.43	-11.89

Sheet 61 A10-E1.01

Phase	Material(\$)	Mat(%)	Labor Hrs	Lab(%)
MAIN FLOOR	-273.94	100.00	-6.55	100.00
Total	-273.94	100.00	-6.55	100.00

CHANGE NOTICE

Connelly Electric

40 S. Addison Rd.
Addison, IL 60101

Client Address:

Vissering Construction

1631 Gaylord Rd.
Crest Hill, IL 60403

Connelly CCN # 11
Date: 8/23/2023
Project Name: Crest Hill WWTP - West Sewage Treatment Plant
Project Number: 22-0686
Page Number: 3

Sheet 61 A10-E1.01 / MAIN FLOOR

Description	Qty	Total Mat.	Total Hrs.
3/4" GRC (GALV)	-54	-195.78	-3.24
3/4" GRC 90 ELBOW	-2	-18.50	-0.80
3/4" STEEL LOCKNUT	-4	-1.09	-0.48
3/4" GRC STRUT CLAMP	-8	-11.77	-0.24
1G MAS-BOX 2-1/2 DEEP	-1	-12.91	-0.35
P-1000 1 5/8" STRUT	-6	-33.89	-1.44
Totals	-75	-273.93	-6.55
Summary			
MATERIAL			
General Materials			-678.25
Material Total			-678.25



20516 Caton Farm Road
Lockport, IL 60441
Office (630) 434-9600
Fax (630) 434-9767
www.lvsolutions.com

Date: August 11, 2023

Change Order# 61-16992 CO#03

Project: Crest Hill Water Reclamation

Job Number: 61-16992

Submitted By: Bob Rodriguez

We hereby agree to make the change(s) specified below:

Low Voltage Solution is providing cost Impact to add and delete the following doors

A10 Building
Delete Door 1001B

B20 Building
Delete Door 2003C
Add Door 2002A

C45 Building
Delete Door 4501A

D50 Building
Delete Door 5002A

E70 Building
Add Door 7005A

Net change

Delete 2 access control door setups

Includes credit for 2 card readers, 2 card reader Licenses, 2 door contacts, 2 RTE Devices, 1 lot cable, 1 lot labor installation, configuration and programming.

Total Credit for Door changes \$1,120.00

NOTE: This Change Order becomes part of and in conformance with the existing contract.

WE AGREE hereby to make the change(s) specified above at this price→ (\$1,120.00) Credit

Authorized Signature

Date

ACCEPTED - The above prices and specifications of this





Cost Proposal Request
West Sewage Treatment Plant Improvements
City of Crest Hill
Contract 1-2022
August 3, 2023

COST PROPOSAL NO.: 011

TO: Vissering Construction
ISSUED BY: Dominic Gattone, P.E.

DISTRIBUTION

Tony Marzetta, Project Manager	Vissering Construction (Contractor)
Blaine Kline	City of Crest Hill
Dominic Gattone, P.E.	Strand Associates, Inc.®

Please submit an itemized quotation for changes in the Contract Price and Time incidental to proposed modifications to the Contract Documents described herein.

The intent of this cost proposal request is to modify the doors that are to receive access control door strikes. In general, all electrical/MCC rooms and all exterior E70 Dewatering and Operations Building exterior doors (Except the fire-riser room door) shall conform to the requirements of Section 28 10 00. See revised E-sheets and Door Schedule attached. Please note that the "Hardware Group" and "Notes" columns have been revised.

Note: Overhead doors and floor doors have been excluded from the schedule for the reader's convenience. They are still required per the previous schedule.

DESCRIPTIONS AFFECTING THE DRAWINGS

011-01 Drawing A10-E1.01 (Sheet 61)

Refer to the attached updated drawing showing revisions to the access control system. Changes include deletion of the system for the Screen Room 1001 at Door 1001B.

011-02 Drawing B20-E1.01 (Sheet 86)

Refer to the attached updated drawing showing revisions to the access control system. Changes include deletion of the system for the Dumpster Room 2003 at Door 2003C and addition of the system for the Electrical Room 2002 at Door 2002A.

011-03 Drawing C45-E1.01 (Sheet 130)

Refer to the attached updated drawing showing revisions to the access control system. Changes include deletion of the system for the Filter Room 4501 at Door 4501A.

011-04 Drawing D50-E1.01 (Sheet 156)

Refer to the attached updated drawing showing revisions to the access control system. Changes include deletion of the system for the CPR Room 5002 at Door 5002A.

011-05 Drawing E70-E1.01 (Sheet 197)

Refer to the attached updated drawing showing revisions to the access control system. Changes include addition of the system for the Centrifuge Room 7005 at Door 7005A.



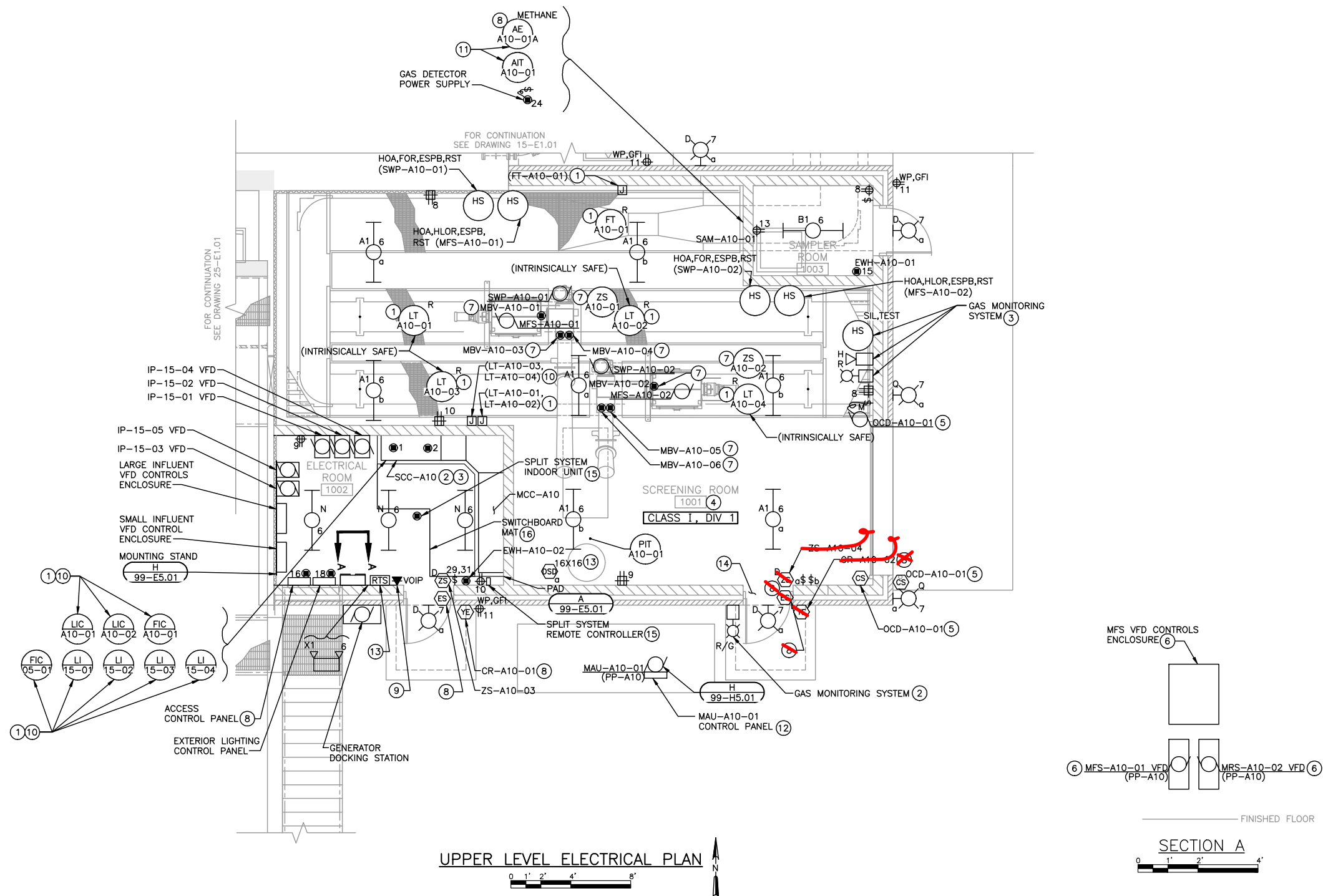
011-06 Drawing E70-E1.03 (Sheet 199)

Clarification: There are no access control changes to this sheet.

011-07 Drawing 99-ASM6.01 (Sheet 217)

Refer to the attached updated drawing showing revisions to the Door Schedule.

	DOOR--SCHEDULE - Revised for CPR11 - Excluding OHDs and Floor Doors																	
	DOOR NUMBER	DOOR						FRAME		LABEL	HARDWARE GROUP		LINTEL	DETAILS			NOTES	
		SIZE	MATERIAL	TYPE		SWING		TYPE	MATERIAL		ACTIVE	INACTIVE	TYPE	HEAD	JAMB	SILL		
				ACTIVE	INACTIVE	ACTIVE	INACTIVE											
E strike?	A10 - PRELIMINDARY TREATMENT BUILDING																	
No	1001B	3'-0"x7'-0"	FRP	HG	--	LHR	--	1	FRP	--	9	--	B-2	E/99-ASM6.02	E/99-ASM6.02	--		
Yes	1002A	3'-0"x7'-0"	STL	HG	--	LHR	--	1	STL	--	12	--	B-2	E/99-ASM6.02	E/99-ASM6.02	--		
No	1003A	3'-0"x7'-0"	FRP	HG	--	LHR	--	1	FRP	--	2	--	B-2	E/99-ASM6.02	E/99-ASM6.02	--		
	B20 - GRIT REMOVAL BUILDING																	
No	2001A	(2)3'-0"x7'-0"	STL	HG	HG	LHR	RHR	1	STL	--	1	4	B-2	E/99-ASM6.02	E/99-ASM6.02	--		
Yes	2002A	3'-0"x7'-0"	STL	HG	--	RHR	--	1	STL	--	12	--	B-2	E/99-ASM6.02	E/99-ASM6.02	--	--	
Yes	2002B	3'-0"x7'-0"	STL	HG	--	RHR	--	1	STL	--	12	--	B-2	E/99-ASM6.02	E/99-ASM6.02	--	--	
No	2003A	(2)3'-0"x7'-0"	FRP	HG	HG	LHR	RHR	1	FRP	--	2	5	See Notes	E/99-ASM6.02	E/99-ASM6.02	--	5	
No	2003C	3'-0"x7'-0"	FRP	HG	--	RHR	--	1	FRP	--	2	--	B-2	E/99-ASM6.02	E/99-ASM6.02	--		
	C45 - TERTIARY FILTRATION BUILDING																	
No	4501A	3'-0"x7'-0"	STL	HG	--	LHR	--	2	STL	--	1	--	--	--	--	--	4	
No	4501B	(2)3'-0"x7'-0"	STL	HG	HG	RHR	LHR	1	STL	--	1	4	A-1	E/99-ASM6.02	E/99-ASM6.02	--	7	
No	4501C	3'-0"x6'-10"	STL	HG	--	RHR	--	2	STL	--	1	--	--	--	--	--	4,7	
No	4502A	(2)3'-0"x7'-0"	FRP	HG	HG	RHR	LHR	1	FRP	--	9	5	A-1	E/99-ASM6.02	E/99-ASM6.02	--	2, 7	
No	4503A	(2)3'-0"x7'-0"	FRP	HG	HG	RHR	LHR	1	FRP	--	9	5	A-1	E/99-ASM6.02	E/99-ASM6.02	--	2, 7	
Yes	4504A	(2)3'-0"x7'-0"	STL	HG	HG	RHR	LHR	1	STL	--	12	4	A-1	E/99-ASM6.02	E/99-ASM6.02	--	7	
No	4505A	(2)2'-4"x7'-0"	STL	HG	HG	RHR	LHR	2	STL	--	1	4	--	--	--	--	4	
	D50 - BLOWER BUILDING																	
No	5002A	3'-0"x7'-0"	FRP	HG	--	LHR	--	1	FRP	--	9	--	B-1	E/99-ASM6.02	E/99-ASM6.02	--	2	
Yes	5003A	3'-0"x7'-0"	STL	NG	--	LHR	--	1	STL	1 1/2 HR	12	--	B-1	F/99-ASM6.02	F/99-ASM6.02	--	2	
No	5004A	3'-0"x7'-0"	STL	F	--	LH	--	1	STL	--	3	--	B-1	F/99-ASM6.02	F/99-ASM6.02	--	1	
No	5005B	(2)3'-0"x7'-0"	STL	HG	HG	RHR	LHR	1	STL	--	1	4	B-3	E/99-ASM6.02	E/99-ASM6.02	--		
No	5006A	3'-0"x7'-0"	STL	HG	--	RHR	--	1	STL	--	1	--	B-2	E/99-ASM6.02	E/99-ASM6.02	--	--	
No	5006B	3'-0"x7'-0"	STL	HG	--	RH	--	1	STL	--	6	--	B-2	E/99-ASM6.02	E/99-ASM6.02	--		
	E70 - DEWATERING BUILDING																	
Yes	7001B	3'-0"x7'-0"	STL	NG	--	RHR	--	1	STL	--	11	--	B-2	E/99-ASM6.02	E/99-ASM6.02	--	--	
Yes	7002A	(2)3'-0"x7'-0"	AL.	FG	FG	RHR	LHR	1	AL.	--	12	4	B-2	E/99-ASM6.02	E/99-ASM6.02	--		
No	7002B	3'-0"x7'-0"	STL	NG	--	RH	--	1	STL	--	6	--	B-1	F/99-ASM6.02	F/99-ASM6.02	--	--	
No	7003A	3'-0"x7'-0"	STL	NG	--	LHR	--	1	STL	--	1	--	B-2	E/99-ASM6.02	E/99-ASM6.02	--		
No	7004A	2'-8"x7'-0"	STL	F	--	LH	--	1	STL	--	3	--	B-1	F/99-ASM6.02	F/99-ASM6.02	--	1	
Yes	7005A	3'-0"x7'-0"	FRP	NG	--	RHR	--	1	FRP	--	13	--	B-2	E/99-ASM6.02	E/99-ASM6.02	--		
Yes	7005C	3'-0"x7'-0"	FRP	NG	--	LHR	--	1	FRP	--	13	--	B-2	E/99-ASM6.02	E/99-ASM6.02	--	--	
No	7006A	3'-0"x7'-0"	FRP	NG	--	RHR	--	1	FRP	1 1/2 HR	13	--	B-1	F/99-ASM6.02	F/99-ASM6.02	--	2	
Yes	7010A	3'-0"x7'-0"	STL	NG	--	RHR	--	1	STL	0	12	--	B-2	E/99-ASM6.02	E/99-ASM6.02	--		
No	7011A	3'-0"x7'-0"	STL	F	--	LH	--	1	STL	--	3	--	B-1	F/99-ASM6.02	F/99-ASM6.02	--	1	
Yes	7012A	3'-0"x7'-0"	STL	F	--	LH	--	1	STL	1 1/2 HR	14	--	B-1	F/99-ASM6.02	F/99-ASM6.02	--	2	
No	7013A	3'-0"x7'-0"	STL	F	--	RH	--	1	STL	--	10	--	B-1	F/99-ASM6.02	F/99-ASM6.02	--	--	
No	7014A	3'-0"x7'-0"	STL	F	--	RH	--	1	STL	--	10	--	B-1	F/99-ASM6.02	F/99-ASM6.02	--	--	
No	7015A	3'-0"x7'-0"	STL	F	--	HR	--	1	STL	--	7	--	B-1	F/99-ASM6.02	F/99-ASM6.02	--	--	
No	7016A	3'-0"x7'-0"	STL	F	--	LH	--	1	STL	--	7	--	B-1	F/99-ASM6.02	F/99-ASM6.02	--	--	
No	7017A	3'-0"x7'-0"	AL.	FG	--	LHR	--	1	AL.	--	8	--	B-2	E/99-ASM6.02	E/99-ASM6.02	--	--	



GENERAL NOTES:

1. REFER TO SECTION 26 09 90 FOR WIRING ASSOCIATED WITH THE PLANT SCADA SYSTEM.
2. ALL EXTERIOR LIGHTING FIXTURES SHALL BE MOUNTED AT 10'-0" ABOVE FINISHED FLOOR OR FLUSH WITH THE BOTTOM OF ADJACENT PIPING/DUCTWORK UNLESS NOTED OTHERWISE.
3. EXTERIOR LIGHTING FIXTURES SHALL BE CONTROLLED FROM THE SCADA SYSTEM THROUGH THE EXTERIOR LIGHTING CONTROL ENCLOSURE FURNISHED BY THE SECTION 26 09 00 SYSTEM SUPPLIER AND LOCATED IN STRUCTURE A10, UNLESS NOTED OTHERWISE. LIGHT FIXTURES SHALL BE POWERED FROM LP-A10 THROUGH A CONTACTOR IN THE EXTERIOR LIGHTING CONTROL ENCLOSURE. LIGHT SWITCH CIRCUIT DESIGNATIONS SHOWN FOR THE BUILDING MOUNTED LIGHT FIXTURES INDICATE WHICH CONTACTOR THE FIXTURE SHALL BE CIRCUITED THROUGH. WALL-MOUNTED LIGHT FIXTURES SHALL BE 9'-0" ABOVE GRADE, UNLESS OTHERWISE NOTED.
4. MOTORIZED VALVE OPERATORS NOT SHOWN WITH A CIRCUIT NUMBER SHALL BE POWERED FROM SCC-A10.
5. DAMPERS NOT SHOWN WITH A CIRCUIT NUMBER SHALL BE POWERED FROM A CONTROL POWER TRANSFORMER IN THE ASSOCIATED MCC BUCKET.
6. REFER TO DRAWING 15-E1.01 FOR ADDITIONAL DEVICES AND EQUIPMENT MOUNTED ON THE NORTH EXTERIOR WALL.
7. THERE SHALL BE A MINIMUM OF 4" BETWEEN VFDS AND VFD ENCLOSURES. BOTTOM OF VFDS SHALL BE A MINIMUM OF 1'-0" AFF.
8. CONTROL STATIONS SHALL BE FURNISHED BY SECTION 26 09 00 CONTROL PANEL AND INSTRUMENTATION SYSTEM SUPPLIER.

KEY NOTES:

- ① PROVIDE NEMA 4X JUNCTION BOX FOR TERMINATION OF RADAR LEVEL/FLOW TRANSMITTER CABLES. INSTALL MANUFACTURER FURNISHED CABLE IN CONDUIT FROM TRANSMITTER TO JUNCTION BOX. PROVIDE SH. PR. FOR EACH TRANSMITTER CABLE IN 3/4" CONDUIT FROM JUNCTION BOX TO ASSOCIATED LEVEL AND FLOW INDICATOR IN THE ELECTRICAL ROOM. PROVIDE SEAL-OFF FITTING BETWEEN THE JUNCTION BOX AND THE INDICATOR. TRANSMITTER SHALL BE WIRED INTRINSICALLY SAFE.
- ② PROVIDE 4~#14 AND #14 GROUND IN 3/4" CONDUIT FROM RED/GREEN ENTRANCE LIGHTS TO SCC-A10.
- ③ PROVIDE 4~#14 AND #14 GROUND IN 3/4" CONDUIT FROM HORN AND STROBE TO SCC-A10. PROVIDE 4~#14 AND #14 GROUND IN 3/4" CONDUIT FROM SILENCE/TEST PUSHBUTTON CONTROL STATION TO SCC-A10.
- ④ ALL ELECTRICAL WORK AND EQUIPMENT IN THE SCREENING ROOM AND WITHIN 3'-0" RADIUS OF EXHAUST FAN SHALL BE RATED FOR CLASS I, DIVISION 1, GROUPS C AND D LOCATION. ALL ELECTRICAL WORK AND EQUIPMENT WITHIN A 3'-0" TO 5'-0" RADIUS OF THE EXHAUST FAN SHALL BE RATED FOR A CLASS I, DIVISION 2, GROUPS C AND D LOCATION.
- ⑤ OVERHEAD DOOR CONTROLS FURNISHED AS SPECIFIED IN DIVISION 8 AND INSTALLED BY DIVISION 26. REFER TO SPECIFICATION 8 OF THE SPECIFICATIONS FOR OPERATING DESCRIPTION AND ADDITIONAL CONTROLS TO BE WIRED BY DIVISION 26. DISCONNECT SHALL BE MOUNTED ADJACENT TO MOTOR.
- ⑥ THERE SHALL BE A MINIMUM OF 6" BETWEEN THE TOP OF THE VFD AND THE BOTTOM OF THE VFD CONTROLS ENCLOSURE.
- ⑦ EQUIPMENT PROVIDED BY DIVISION 46 AND WIRED BY DIVISION 26. COORDINATE EXACT EQUIPMENT LOCATION WITH DIVISION 46.
- ⑧ PROVIDE A FLUSH-MOUNTED BOX ON BUILDING EXTERIOR FOR CARD READER. PROVIDE 3/4" CONDUIT FROM BOX TO ACCESS CONTROL PANEL IN THE ELECTRICAL ROOM. PROVIDE 3/4" CONDUIT FROM BOX TO DOOR FRAME FOR ELECTRIC STRIKE. WIRING SHALL BE FURNISHED AND INSTALLED BY THE SECTION 28 10 00 SYSTEM SUPPLIER.
- ⑨ PROVIDE CABLE IN CONDUIT TO DATA JACK FROM THE NETWORK CABINET IN THE ELECTRICAL ROOM OF GRIT REMOVAL (BUILDING B20).
- ⑩ FLOW/LEVEL INDICATORS PROVIDED BY THE SECTION 26 09 00 CONTROL PANEL AND INSTRUMENTATION SYSTEM SUPPLIER FLUSH-MOUNTED ON THE DOOR OF THE SCC. REFER TO SPECIFICATION SECTION 26 09 00 PART 3 FOR ADDITIONAL INFORMATION.
- ⑪ PROVIDE MANUFACTURER-RECOMMENDED CABLE IN 3/4" CONDUIT FROM SENSOR TO TRANSMITTER. SENSOR MOUNTING HEIGHT SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
- ⑫ MAU-A10-01 CONTROL PANEL FURNISHED BY DIVISION 23 AND INSTALLED AND WIRED BY DIVISION 26. REFER TO

H
99-H5.01

 FOR CONDUIT AND WIRING ASSOCIATED WITH THE UNIT.
- ⑬ DUCT SMOKE DETECTOR FURNISHED BY SECTION 26 09 00 AND INSTALLED IN VERTICAL FACE OF DUCT. SAMPLING TUBE SHALL EXTEND TO OPPOSITE DUCT WALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE REQUIRED CONDUIT AND WIRING BETWEEN DUCT SMOKE DETECTOR AND REMOTE TEST SWITCH IN ELECTRICAL ROOM.
- ⑭ ALL ELECTRICAL WORK AND EQUIPMENT WITHIN 3'-0" HORIZONTALLY FROM THE DOOR OPENING SHALL BE RATED FOR CLASS I, DIVISION 2, GROUPS C AND D LOCATION.
- ⑮ PROVIDE MANUFACTURER-RECOMMENDED CONTROL CABLE IN 3/4" CONDUIT FROM INDOOR UNIT TO OUTDOOR UNIT ON ROOF DRAWING A10-ASME1.03.
- ⑯ PROVIDE SWITCHBOARD MATS AS SPECIFIED IN SECTION 12 48 43 SPANNING ENTIRE FRONT OF MCC AND SCC.

NO.	REVISIONS	DATE:
1	ISSUED FOR BID	5/12/2022
2	CONFORMED DRAWINGS	12/1/2022
3	CHANGE ORDER NO. 1	4/13/2023

PRELIMINARY TREATMENT BUILDING ELECTRICAL AND LIGHTING PLAN

WEST SEWAGE TREATMENT PLANT IMPROVEMENTS
CITY OF CREST HILL
WILL COUNTY, ILLINOIS

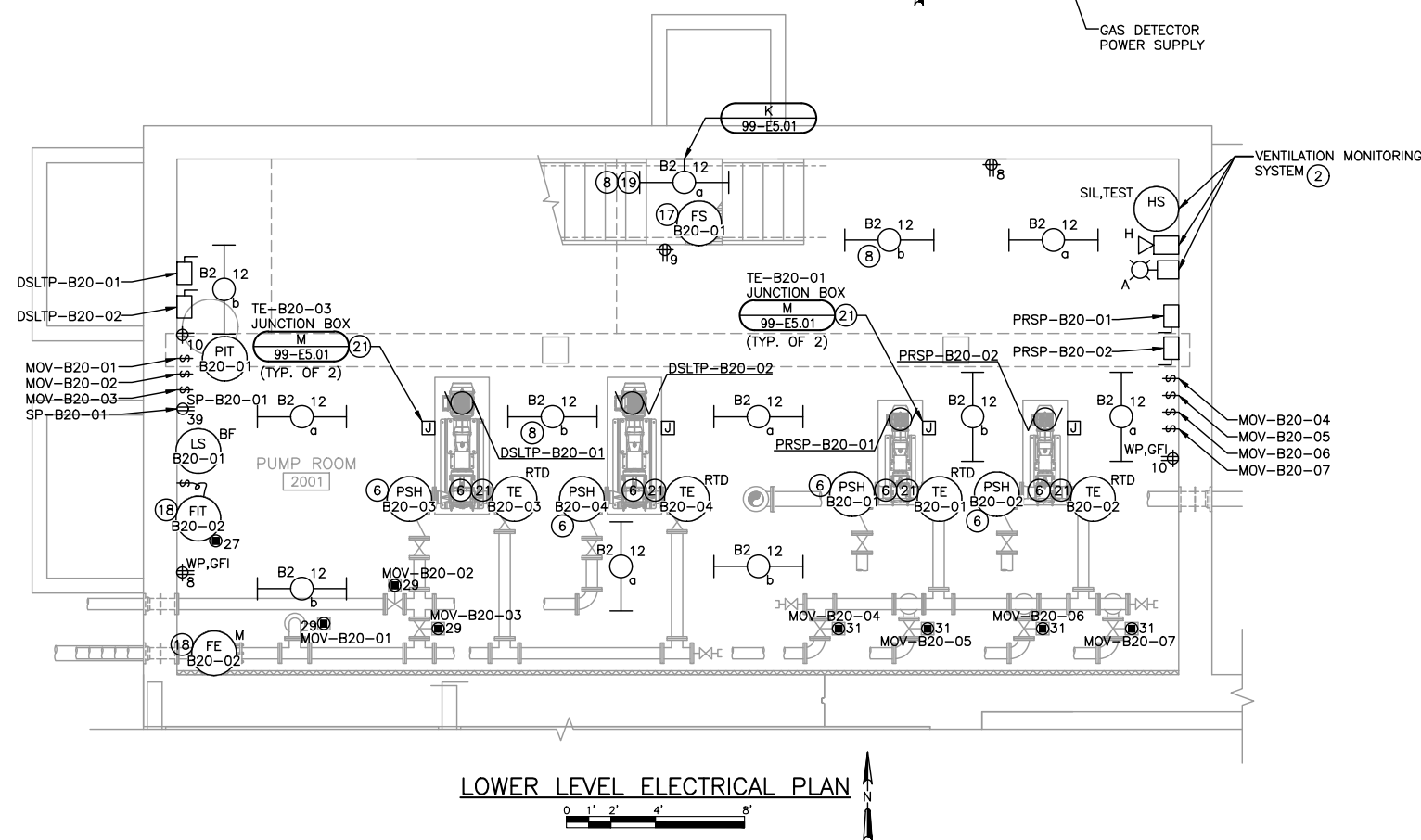
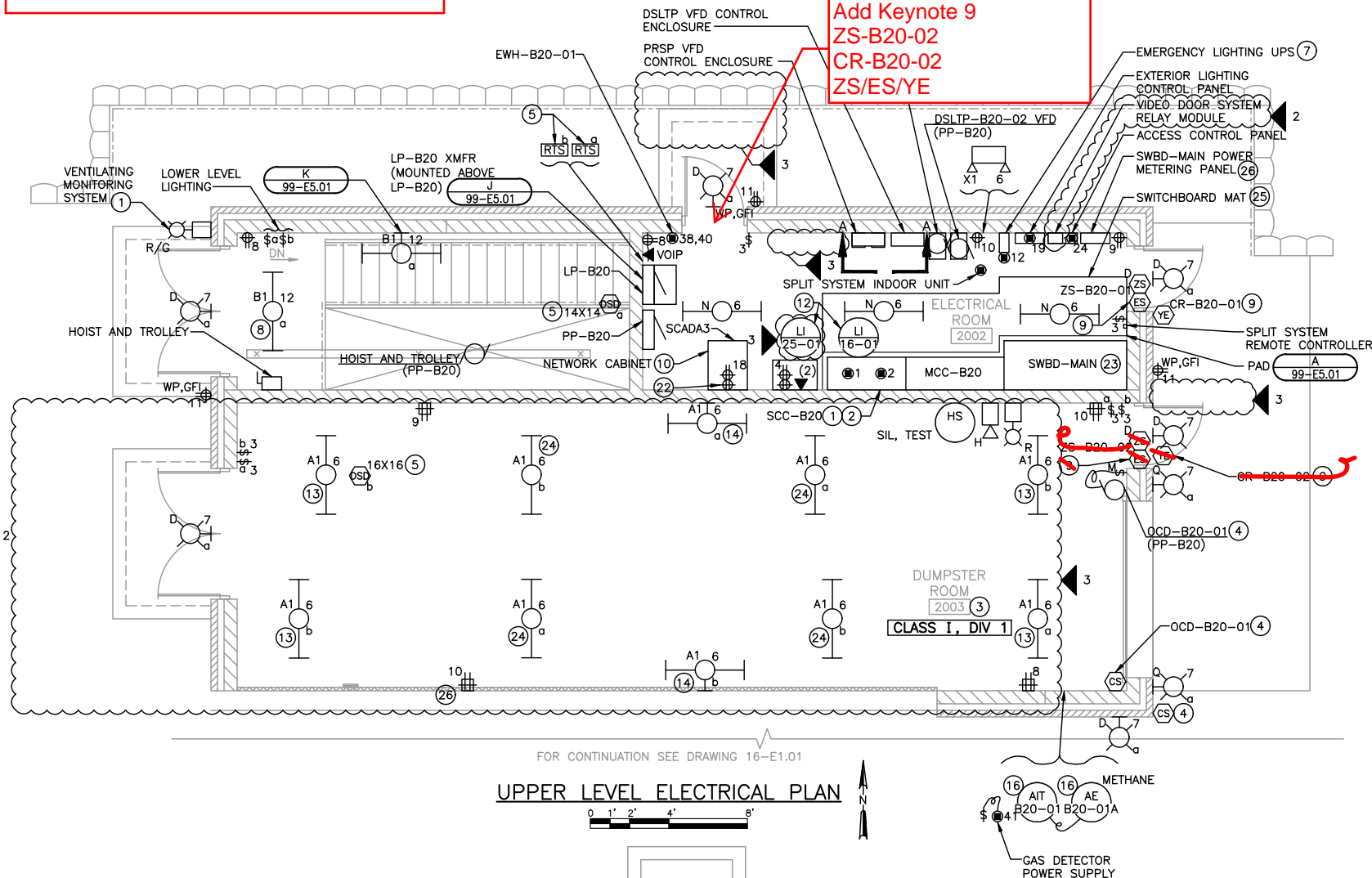
JOB NO.
3894.051

PROJECT MGR.
VINIC GATTONE

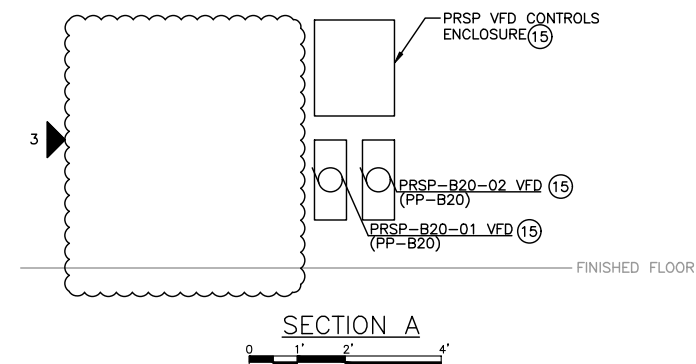


**SHEET
61
A10-E1.01**

1. REFER TO SECTION 26 09 90 FOR WIRING ASSOCIATED WITH THE PLANT SCADA SYSTEM.
2. ALL INTERIOR LIGHTING FIXTURES SHALL BE MOUNTED AT 10'-0" ABOVE FINISHED FLOOR OR FLUSH WITH THE BOTTOM OF ADJACENT PIPING/DUCTWORK UNLESS NOTED OTHERWISE.
3. DAMPERS NOT SHOWN WITH A CIRCUIT NUMBER SHALL BE POWERED FROM A CONTROL POWER TRANSFORMER IN THE ASSOCIATED MCC BUCKET.
4. EXTERIOR LIGHTING FIXTURES SHALL BE CONTROLLED FROM THE SCADA SYSTEM THROUGH THE EXTERIOR LIGHTING CONTROL ENCLOSURE FURNISHED BY THE SECTION 26 09 00 SYSTEM SUPPLIER, UNLESS NOTED OTHERWISE. LIGHT FIXTURES SHALL BE POWERED FROM LP-B20 THROUGH A CONTACTOR IN THE EXTERIOR LIGHTING CONTROL ENCLOSURE. WALL-MOUNTED LIGHT FIXTURES SHALL BE 9'-0" ABOVE GRADE, UNLESS OTHERWISE NOTED.
5. MOTORIZED VALVE OPERATORS NOT SHOWN WITH A CIRCUIT NUMBER SHALL BE POWERED FROM SCC-B20.
6. THERE SHALL BE A MINIMUM OF 4" BETWEEN VFDS AND VFD ENCLOSURES. VFDS SHALL BE A MINIMUM OF 1'-0" AFF.
7. CONTROL STATIONS SHALL BE FURNISHED BY THE SECTION 26 09 00 CONTROL PANEL AND INSTRUMENTATION SYSTEM SUPPLIER.
8. ALL ELECTRICAL WORK AND EQUIPMENT, INCLUDING INSTRUMENTATION AND CONTROLS, ASSOCIATED WITH GRIT PUMP, GRIT WASHER, AND GRIT AUGER SHALL BE INCLUDED IN BID ALTERNATIVE NO. 1.



- 1 PROVIDE 4~#14 AND #14 GROUND IN 3/4" CONDUIT FROM RED/GREEN ENTRANCE LIGHTS TO SCC-B20.
- 2 PROVIDE 4~#14 AND #14 GROUND IN 3/4" CONDUIT FROM HORN AND STROBE TO SCC-B20. PROVIDE 4~#14 AND #14 GROUND IN 3/4" CONDUIT FROM SILENCE/TEST PUSH BUTTON CONTROL STATION TO SCC-B20.
- 3 ALL ELECTRICAL WORK AND EQUIPMENT IN THE DUMPSTER ROOM AND WITHIN 3'-0" RADIUS OF EXHAUST FAN SHALL BE RATED FOR A CLASS I, DIVISION 1, GROUPS C AND D LOCATION. ALL ELECTRICAL WORK AND EQUIPMENT WITHIN A 3'-0" TO 5'-0" RADIUS OF THE EXHAUST FAN SHALL BE RATED FOR A CLASS I, DIVISION 2, GROUPS C AND D LOCATION.
- 4 OVERHEAD DOOR CONTROLS FURNISHED AS SPECIFIED IN DIVISION 8 AND INSTALLED BY DIVISION 26. REFER TO DIVISION 8 OF THE SPECIFICATIONS FOR OPERATING DESCRIPTION AND ADDITIONAL CONTROLS TO BE WIRED BY DIVISION 26. DISCONNECT SHALL BE MOUNTED ADJACENT TO MOTOR.
- 5 DUCT SMOKE DETECTOR FURNISHED BY SECTION 26 09 00 CONTROL PANEL AND INSTRUMENTATION SYSTEM SUPPLIER INSTALLED IN VERTICAL FACE OF DUCT. SAMPLING TUBE SHALL EXTEND TO OPPOSITE DUCT WALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE REQUIRED CONDUIT AND WIRING BETWEEN DUCT SMOKE DETECTOR AND REMOTE TEST SWITCH IN ELECTRICAL ROOM.
- 6 RTD/PRESSURE SWITCHES FURNISHED BY DIVISION 43 AND INSTALLED AND WIRED BY DIVISION 26.
- 7 EMERGENCY LIGHTING UPS'S SHALL BE SURFACE MOUNTED ON THE WALL STACKED ABOVE EACH OTHER. ASSOCIATED FIXTURES SHALL BE WIRED IN SERIES THROUGH THE UPS FROM THE LOAD SIDE OF THE CONTROL DEVICE. EMERGENCY CIRCUITS SHALL BE INSTALLED WITHIN DEDICATED CONDUIT AND BOXES. PROVIDE SEPARATE REFERENCE VOLTAGE CIRCUIT TO POWER THE UPS FROM THE LINE SIDE OF THE CONTROL DEVICE.
- 8 FIXTURE SHALL BE POWERED THROUGH THE EMERGENCY LIGHTING UPS IN ELECTRICAL ROOM 2002.
- 9 PROVIDE A FLUSH-MOUNTED BOX ON BUILDING EXTERIOR FOR CARD READER. PROVIDE 3/4" CONDUIT FROM BOX TO ACCESS CONTROL PANEL IN THE ELECTRICAL ROOM. PROVIDE 3/4" CONDUIT FROM BOX TO DOOR FRAME FOR ELECTRIC STRIKE. WIRING SHALL BE FURNISHED AND INSTALLED BY THE SECTION 28 10 00 SYSTEM SUPPLIER.
- 10 BOND THE NETWORK CABINET GROUND BAR TO THE GROUND BUS IN MCC-B20 WITH A #6 GROUND CONDUCTOR IN 3/4" PVC CONDUIT.
- 11 NOT USED.
- 12 LEVEL INDICATORS PROVIDED BY THE SECTION 26 09 00 CONTROL PANELS INSTRUMENTATION SUPPLIER FLUSH-MOUNTED ON THE DOOR OF THE SCC. REFER TO SPECIFICATION SECTION 26 09 00 PART 3 FOR ADDITIONAL INFORMATION.
- 13 FIXTURE SHALL BE MOUNTED AT 14'-0" ABOVE FINISHED FLOOR.
- 14 FIXTURE SHALL BE WALL-MOUNTED DIRECTLY UNDERNEATH GRIT WASHER PLATFORM PER DETAIL K
99-E5.01.
- 15 THERE SHALL BE A MINIMUM OF 6" BETWEEN THE TOP OF THE VFD AND THE BOTTOM OF THE VFD CONTROLS ENCLOSURE.
- 16 PROVIDE MANUFACTURER-RECOMMENDED CABLE IN 3/4" CONDUIT FROM SENSOR TO TRANSMITTER. METHANE SENSOR SHALL BE INSTALLED WITHIN 18" OF CEILING. INSTALL CALIBRATION TUBING FROM CH4 SENSOR TO ALLOW SENSOR TO BE CALIBRATED FROM FLOOR.
- 17 PROVIDE 2~#14 IN 3/4" CONDUIT FROM AIR FLOW SWITCH TO SCC-B20.
- 18 PROVIDE EACH MANUFACTURER-RECOMMENDED CABLE IN 3/4" CONDUIT FROM FLOW ELEMENT TO FLOW INDICATING TRANSMITTER.
- 19 MOUNT FIXTURE 8'-0" AFF.
- 20 NOT USED.
- 21 INSTALL CABLE FURNISHED WITH TEMPERATURE ELEMENT IN CONDUIT. PROVIDE CABLE GRIP FITTING ON END OF CONDUIT AT TEMPERATURE ELEMENT.
- 22 MOUNT RECEPTACLE INSIDE THE NETWORK CABINET.
- 23 POWER METERING PANEL FURNISHED BY SECTION 26 09 00 CONTROL PANEL AND INSTRUMENTATION SYSTEM SUPPLIER. PROVIDE WIRING AND CONDUIT BETWEEN SWBD-MAIN AND THE POWER METERING PANEL AS SHOWN ON THE ONE-LINE.
- 24 FIXTURE SHALL BE MOUNTED ON THE CEILING.
- 25 PROVIDE SWITCHBOARD MAT AS SPECIFIED IN SECTION 12 48 43 SPANNING ENTIRE FRONT OF MCC, SCC, AND SWITCHBOARD.
- 26 EQUIPMENT PROVIDED BY DIVISION 46 AND WIRED BY DIVISION 26.



NO.		REVISIONS	DATE:
1	ISSUED FOR BID		5/12/2022
2	CONFORMED DRAWINGS		12/1/2022
3	CHANGE ORDER NO. 1		4/13/2023

**GRIT REMOVAL FACILITIES
ELECTRICAL AND LIGHTING PLANS**

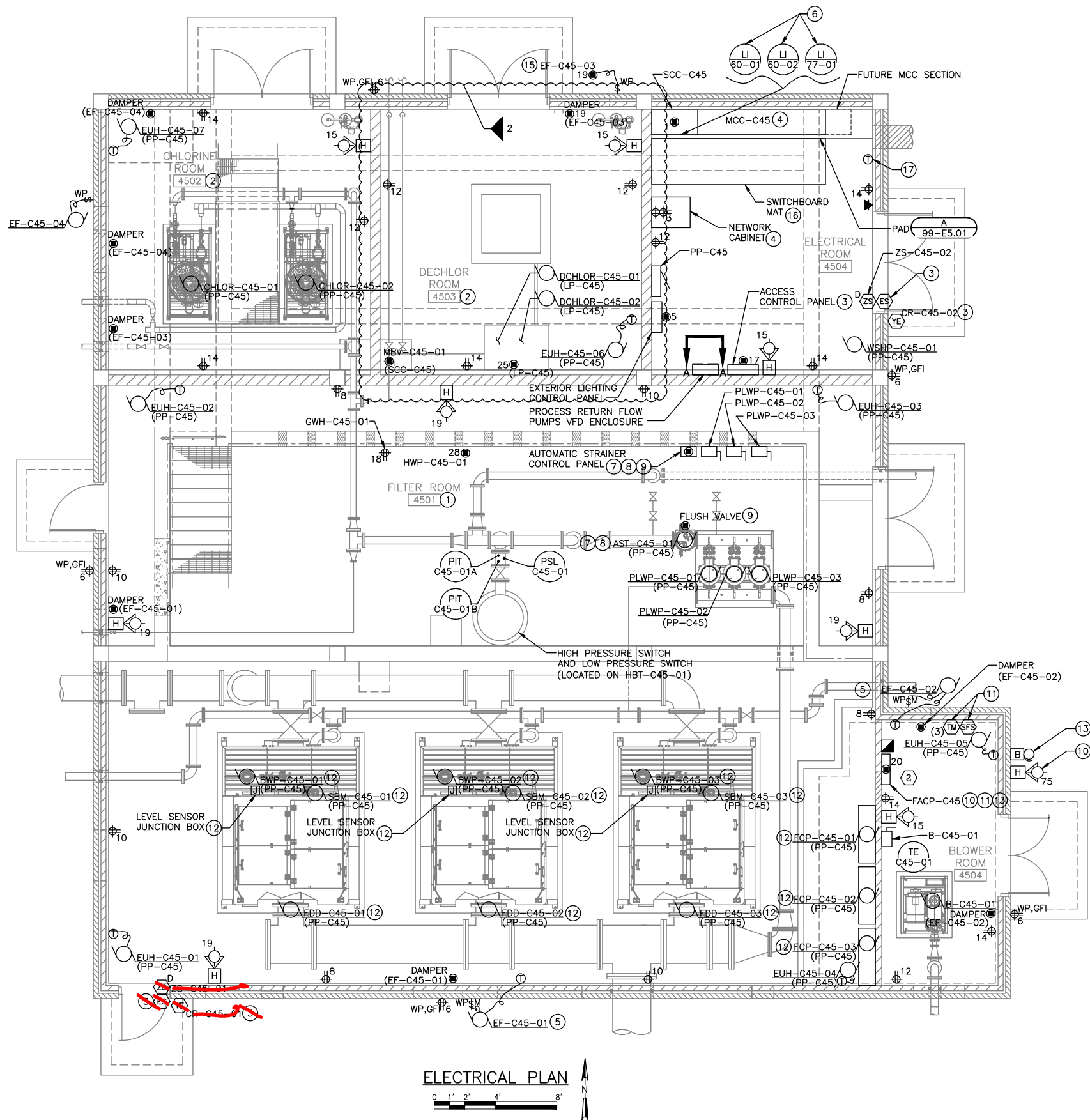
**WEST SEWAGE TREATMENT PLANT IMPROVEMENTS
CITY OF CREST HILL
WILL COUNTY, ILLINOIS**

JOB NO.
3894.051

PROJECT MGR.
MINIC GATTONE



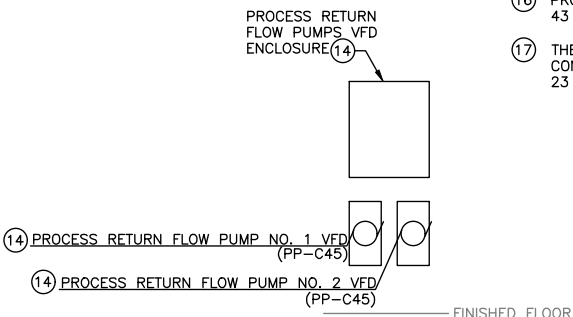
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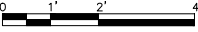
ELECTRICAL PLAN



- GENERAL NOTES:
- REFER TO SPECIFICATION SECTION 01 11 00 FOR INFORMATION ON CONSTRUCTION SEQUENCING.
 - REFER TO SPECIFICATION SECTION 26 09 90 FOR WIRING ASSOCIATED WITH THE SCADA SYSTEM.
 - SEE DRAWING C45-ASM1.01 FOR LOCATIONS OF FIRE-RATED WALLS.
 - DAMPERS NOT SHOWN WITH A CIRCUIT NUMBER SHALL BE POWERED FROM A CONTROL POWER TRANSFORMER IN THE ASSOCIATED MCC BUCKET.
 - THERE SHALL BE A MINIMUM OF 4" BETWEEN VFDs AND VFD ENCLOSURES. VFDs SHALL BE A MINIMUM OF 1'-0" AFF.
- KEY NOTES:
- ALL ELECTRICAL WORK AND EQUIPMENT IN THIS ROOM SHALL BE RATED NEMA 4X. CONDUIT SHALL BE ALUMINUM AND SUPPORT MEMBERS SHALL BE STAINLESS STEEL.
 - ALL ELECTRICAL WORK AND EQUIPMENT IN THIS ROOM SHALL BE RATED NEMA 4X. CONDUIT SHALL BE PVC AND SUPPORT MEMBERS SHALL BE FRP.
 - PROVIDE A FLUSH-MOUNTED BOX ON BUILDING EXTERIOR FOR CARD READER. PROVIDE 3/4" CONDUIT FROM BOX TO ACCESS CONTROL PANEL IN THE ELECTRICAL ROOM. PROVIDE 3/4" CONDUIT FROM BOX TO DOOR FRAME FOR ELECTRIC STRIKE. WIRING SHALL BE FURNISHED AND INSTALLED BY THE SECTION 28 10 00 SYSTEM SUPPLIER.
 - BOND THE COMMUNICATION CABINET GROUND BAR TO THE GROUND BUS IN MCC-C45 WITH A #6 GROUND CONDUCTOR IN 3/4" PVC CONDUIT. MOUNT RECEPTACLES INSIDE THE COMMUNICATION CABINET.
 - FAN SHALL BE CONTROLLED BY THE ROOM THERMOSTAT SUCH THAT THE FAN RUNS WHEN THE ROOM TEMPERATURE RISES ABOVE THE THERMOSTAT SETPOINT AND SHUTS DOWN WHEN THE TEMPERATURE FALLS BELOW THE THERMOSTAT SETPOINT.
 - LEVEL INDICATORS SHALL BE FLUSH-MOUNTED ON THE DOOR OF THE SCC. REFER TO SPECIFICATION SECTION 26 09 00 PART 3 FOR ADDITIONAL INFORMATION.
 - PROVIDE 2~#14 FROM CONTROL PANEL TO THE LOW PRESSURE SWITCH AND 2~#14 FROM CONTROL PANEL TO THE HIGH PRESSURE SWITCH IN 3/4" CONDUIT. SWITCHES ARE LOCATED AT THE AUTOMATIC STRAINER (AST-C45-01).
 - PROVIDE 3~#12 AND #12 GROUND IN 3/4" CONDUIT FROM CONTROL PANEL TO SCREEN MOTOR DRIVE MOTOR NO. 1 AT THE AUTOMATIC STRAINER (AST-C45-01). PROVIDE 3~#12 AND #12 GROUND IN 3/4" CONDUIT FROM CONTROL PANEL TO SCREEN MOTOR DRIVE MOTOR NO. 2 AT THE AUTOMATIC STRAINER.
 - PROVIDE 4~#14 FROM CONTROL PANEL TO THE FLUSH VALVE IN 3/4" CONDUIT.
 - EXTERIOR ALARM STROBE SHALL BE POWERED THROUGH FACP SUCH THAT IT IS ONLY ACTIVATED WHEN SMOKE DETECTOR OR FIRE ALARM FLOW SWITCH IS ACTIVATED.
 - FIRE ALARM FLOW SWITCH AND TAMPER SWITCHES PROVIDED BY DIVISION 21 AND WIRED TO FACP BY DIVISION 28. PROVIDE REQUIRED ADDRESSABLE CONTROL MODULES AND SUPERVISORY RELAYS TO MONITOR EACH DEVICE.
 - PROVIDE CONDUCTORS/CONDUIT TO DEVICES AS SHOWN IN THE TERTIARY DISC FILTER SYSTEM CONDUIT AND WIRE SCHEDULE.
 - FIRE SUPPRESSION SYSTEM ALARM BELL FURNISHED BY DIVISION 21 AND INSTALLED AND WIRED BY DIVISION 28. ALARM BELL SHALL BE POWERED FROM THE FACP.
 - THERE SHALL BE A MINIMUM OF 6" BETWEEN THE TOP OF THE VFD AND THE BOTTOM OF THE VFD CONTROLS ENCLOSURE.
 - FAN SHALL RUN CONTINUOUSLY.
 - PROVIDE SWITCHBOARD MAT AS SPECIFIED IN SECTION 12 48 43 SPANNING ENTIRE FRONT OF MCC AND SCC.
 - THERMOSTAT PROVIDED BY DIVISION 23. PROVIDE 3/4" CONDUIT FROM THERMOSTAT TO WSHP-C45-01 FOR DIVISION 23 INSTALLED WIRING.



SECTION A



TERTIARY DISC FILTER SYSTEM CONDUIT AND WIRING SCHEDULE**				
CONDUIT DESIGNATION	ORIGIN	TERMINATION	CONDUIT SIZE	CONDUCTORS
DRUM DRIVE MOTOR POWER	POP-05-01	FDD-05-01	3/4"	3-#12
DRUM DRIVE MOTOR OVERTEMP	POP-05-01	FDD-05-01	3/4"	2-#14
BACKWASH PUMP MOTOR POWER	POP-05-01	BWP-05-01	3/4"	3-#10
BACKWASH PUMP MOTOR OVERTEMP	POP-05-01	BWP-05-01	3/4"	2-#14
SPRAY BAR OSCILLATION DRIVE MOTOR POWER	POP-05-01	SBM-05-01	3/4"	3-#12
DISC FILTER LEVEL SENSORS	POP-05-01	FILT-05-01 LEVEL SENSOR JUNCTION BOX	3/4"	15-#14

**PROVIDE GROUND WIRE FOR EACH PIECE OF EQUIPMENT SIZED PER THE NEC.

**SCHEDULE TYPICAL FOR POP-05-01, POP-05-02, AND POP-05-03.

TERTIARY FILTER BUILDING
ELECTRICAL PLAN

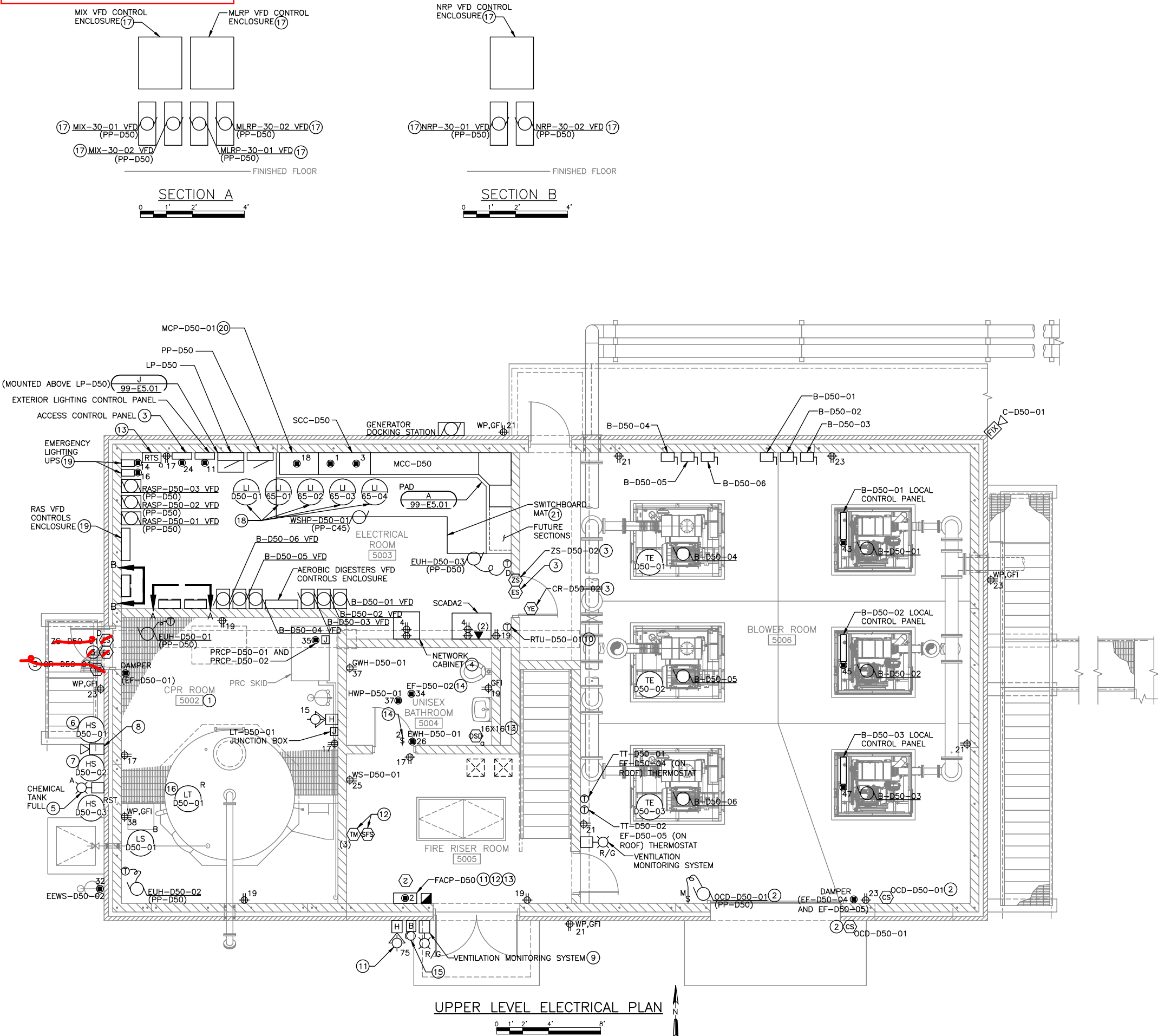
WEST SEWAGE TREATMENT PLANT IMPROVEMENTS
CITY OF CREST HILL
WILL COUNTY, ILLINOIS

JOB NO.
3894.051

PROJECT MGR.
DOMINIC GATTONE

STRAND ASSOCIATES

SHEET
130
C45-E1.01



- GENERAL NOTES:
1. REFER TO SPECIFICATION SECTION 26 09 90 FOR WIRING ASSOCIATED WITH THE SCADA SYSTEM.
 2. SEE DRAWING D50-AS1.01 FOR LOCATIONS OF FIRE-RATED WALLS.
 3. REFER TO SPECIFICATION SECTION 01 11 00 FOR INFORMATION ON CONSTRUCTION SEQUENCING.
 4. DAMPER NOT SHOWN WITH A CIRCUIT NUMBER SHALL BE POWERED FROM A CONTROL POWER TRANSFORMER IN THE ASSOCIATED MCC BUCKET.
 5. THERE SHALL BE A MINIMUM OF 4" BETWEEN VFDS AND VFD ENCLOSURE. VFDS SHALL BE A MINIMUM OF 1'-0" AFF.
 6. CONDUITS MAY NOT BE SUSPENDED ABOVE THE CHEMICAL TANK OR IN ADJACENT LOCATIONS PREVENTING REMOVAL OF TANKS.

- KEY NOTES:
1. ALL ELECTRICAL WORK AND EQUIPMENT IN THIS ROOM SHALL BE RATED NEMA 4X. CONDUIT SHALL BE PVC AND SUPPORT MEMBERS SHALL BE FRP.
 2. OVERHEAD COILING DOOR CONTROLS FURNISHED AS SPECIFIED IN DIVISION 8 AND INSTALLED BY DIVISION 26. REFER TO DIVISION 8 FOR OPERATING DESCRIPTIONS AND ADDITIONAL CONTROLS TO BE WIRED BY DIVISION 26. DISCONNECT SWITCH SHALL BE MOUNTED ADJACENT TO MOTOR.
 3. PROVIDE A FLUSH-MOUNTED BOX ON BUILDING EXTERIOR FOR CARD READER. PROVIDE 3/4" CONDUIT FROM BOX TO ACCESS CONTROL PANEL IN THE ELECTRICAL ROOM. PROVIDE 3/4" CONDUIT FROM BOX TO DOOR FRAME FOR ELECTRIC STRIKE. WIRING SHALL BE FURNISHED AND INSTALLED BY THE SECTION 28 10 00 SYSTEM SUPPLIER.
 4. BOND THE NETWORK CABINET GROUND BAR TO THE GROUND BUS IN MCC-E70 WITH A #6 GROUND CONDUCTOR IN 3/4" PVC CONDUIT. MOUNT RECEPTACLES INSIDE THE NETWORK CABINET.
 5. PROVIDE AMBER CHEMICAL TANK FULL LIGHT AND SIGN AS SPECIFIED IN SECTION 26 09 00. LIGHT SHALL BE POWERED THROUGH A CONTACTOR IN SCC-C45. SIGN SHALL READ: FIRST LINE - "CHEMICAL TANK FULL", SECOND LINE: - "WHEN ILLUMINATED."
 6. VENTILATION SHUTDOWN CONTROL STATION SHALL BE PROVIDED BY SECTION 26 09 00 SYSTEM SUPPLIER. PROVIDE GLASS BREAK STYLE CONTROL STATION MODEL ST120SN3RSL AS MANUFACTURED BY PILLA, OR EQUAL. SWITCH SHALL BE PROVIDED WITH THREE N.C. AND THREE N.C. AUXILIARY CONTACTS.
 7. PROVIDE ADDRESSABLE RELAY AS REQUIRED TO MONITOR HAZARDOUS MATERIAL EMERGENCY CONTROL STATION STATUS AT FACP-D50.
 8. PROVIDE ALARM HORN, MODEL 875-N5 AS MANUFACTURED BY EDWARDS SIGNAL, OR EQUAL AND ALL REQUIRED MOUNTING HARDWARE. HORN SHALL BE POWERED FROM SCC-D50. PROVIDE 2~#14 AND #14 GROUND IN 3/4" CONDUIT FROM SCC-D50 TO ALARM HORN. PROVIDE A YELLOW SIGN AS SPECIFIED IN SECTION 26 09 00. SIGN ENGRAVING SHALL BE FIRST LINE: - "HAZARDOUS MATERIAL EMERGENCY", SECOND LINE: - "WHEN HORN SOUNDING."
 9. PROVIDE 4~#14 AND #14 GROUND IN 3/4" CONDUIT FROM RED/GREEN ENTRANCE LIGHTS TO SCC-D50.
 10. THERMOSTAT PROVIDED BY DIVISION 23. PROVIDE 3/4" CONDUIT FROM THERMOSTAT TO RTU-D50-01 FOR DIVISION 23 INSTALLED WIRING.
 11. EXTERIOR ALARM STROBE SHALL BE POWERED THROUGH FACP SUCH THAT IT IS ONLY ACTIVATED WHEN SMOKE DETECTOR OR FIRE ALARM FLOW SWITCH IN THIS BUILDING IS ACTIVATED.
 12. FIRE ALARM FLOW SWITCH AND TAMPER SWITCHES PROVIDED BY DIVISION 21 AND WIRED TO FACP BY DIVISION 28. PROVIDE REQUIRED ADDRESSABLE CONTROL MODULES AND SUPERVISORY RELAYS TO MONITOR EACH DEVICE.
 13. DUCT SMOKE DETECTOR SHALL BE INSTALLED IN VERTICAL FACE OF DUCT. SAMPLING TUBE SHALL EXTEND TO OPPOSITE DUCT WALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE REQUIRED CONDUIT AND WIRE BETWEEN DUCT SMOKE DETECTOR AND REMOTE TEST SWITCH IN ELECTRICAL ROOM.
 14. PROVIDE 2-POLE SWITCH FOR CONTROL OF RESTROOM LIGHTING (SEE D50-E1.04) AND ASSOCIATED EXHAUST FAN (EF-D50-02).
 15. FIRE SUPPRESSION SYSTEM ALARM BELL FURNISHED BY DIVISION 21 AND INSTALLED AND WIRED BY DIVISION 28. ALARM BELL SHALL BE POWERED FROM THE FACP.
 16. PROVIDE JUNCTION BOX FOR TERMINATION OF LEVEL TRANSMITTER CABLE. JUNCTION BOX SHALL BE FURNISHED BY SECTION 26 09 00 SYSTEM SUPPLIER.
 17. THERE SHALL BE A MINIMUM OF 6" BETWEEN THE TOOP OF THE VFD AND THE BOTTOM OF THE VFD CONTROLS ENCLOSURE.
 18. LEVEL INDICATORS SHALL BE FLUSH-MOUNTED ON THE DOOR OF THE SCC. REFER TO SPECIFICATION SECTION 26 09 00 PART 3 FOR ADDITIONAL INFORMATION.
 19. EMERGENCY LIGHTING UPS'S SHALL BE SURFACE-MOUNTED ON THE WALL STACKED ABOVE EACH OTHER. ASSOCIATED FIXTURES SHALL BE WIRED IN SERIES THROUGH THE UPS FROM LOAD SIDE OFF THE CONTROL DEVICE. EMERGENCY CIRCUITS SHALL BE INSTALLED WITHIN DEDICATED CONDUIT AND BOXES. PROVIDE SEPARATE REFERENCE VOLTAGE CIRCUIT TO POWER THE UPS FROM THE LINE SIDE OF THE CONTROL DEVICE.
 20. PROVIDE WIRE AND CONDUIT AS SPECIFIED ON THE AERATION SYSTEM CONDUIT AND WIRE SCHEDULE ON DRAWING 99-E6.15.
 21. PROVIDE SWITCHBOARD MAT AS SPECIFIED IN SECTION 12 48 43 SPANNING ENTIRE FRONT OF MCC, SCC, AND MCP.

BLOWER BUILDING
UPPER LEVEL ELECTRICAL PLAN
WEST SEWAGE TREATMENT PLANT IMPROVEMENTS
CITY OF CREST HILL
WILL COUNTY, ILLINOIS

JOB NO.
3894.051

PROJECT MGR.
DOMINIC GATTONE

STRAND ASSOCIATES®

SHEET
156
D50-E1.03

CPR-011

KEY NOTES:

- SYSTEM.
2. SEE DRAWING E70-AS1.01 FOR LOCATIONS OF FIRE-RATED WALLS.
3. PROVIDE NAC PANELS AS REQUIRED TO POWER FAS ANNUNCIATION DEVICES. CONTRACTOR SHALL PROVIDE A DEDICATED 20A, 120V CIRCUIT BREAKER, CONDUIT, AND WIRING TO EACH NAC PANEL. PROVIDE SMOKE DETECTOR OVER ALL NAC PANEL LOCATIONS.
4. MOTOR OPERATED VALVES NOT SHOWN WITH A CIRCUIT NUMBER SHALL BE POWERED FROM SCC-E70.

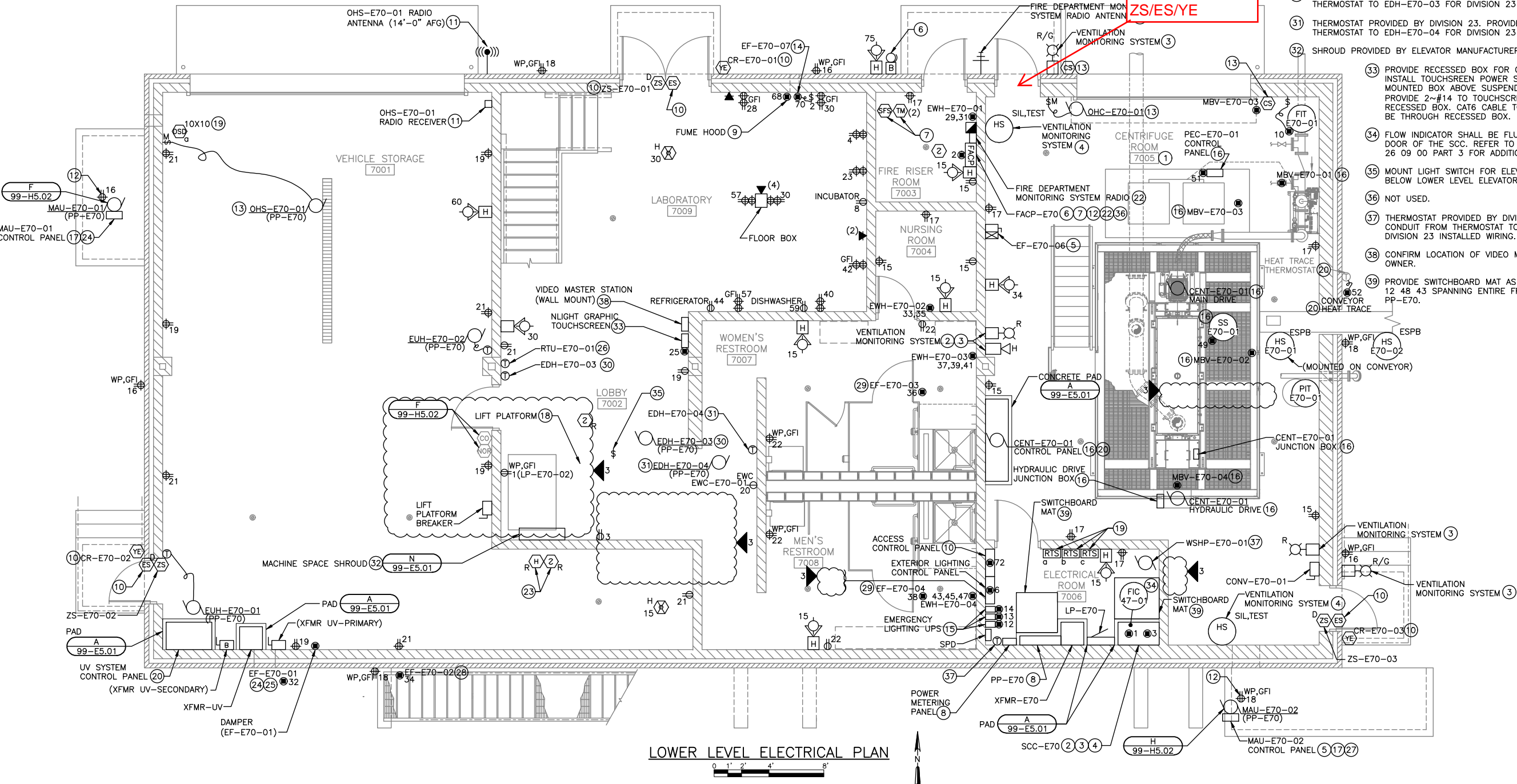
1. ALL ELECTRICAL WORK AND EQUIPMENT IN THIS ROOM SHALL BE RATED NEMA 4X. CONDUIT SHALL BE ALUMINUM AND SUPPORT MEMBERS SHALL BE STAINLESS STEEL.
2. PROVIDE 2~#14 AND #14 GROUND IN 3/4" CONDUIT FROM HORN TO SCC-E70.
3. PROVIDE 2~#14 AND #14 GROUND IN 3/4" CONDUIT FROM WARNING LIGHT TO SCC-E70.
4. PROVIDE 4~#14 AND #14 GROUND IN 3/4" CONDUIT FROM SILENCE/TEST CONTROL STATION TO SCC-E70.
5. PROVIDE COMBINATION STARTER AS SPECIFIED IN SECTION 26 09 00. PROVIDE 2~#14 IN 3/4" CONDUIT FROM STARTER TO MAU-E70-02 TO START THE MAU WHENEVER THE FAN IS RUNNING. PROVIDE 2~#12 AND #12 GROUND IN 3/4" CONDUIT FROM STARTER TO EF-E70-06 DAMPER ON ROOF.
6. SPRINKLER SYSTEM ALARM BELL PROVIDED AS SPECIFIED BY DIVISION 23 AND WIRED BY DIVISION 26. ALARM BELL SHALL BE POWERED FROM FACP-E70.
7. SPRINKLER FLOW SWITCH AND TAMPER SWITCHES PROVIDED AS SPECIFIED IN DIVISION 23 AND WIRED BY DIVISION 26. SPRINKLER FLOW SWITCH AND TAMPER SWITCHES SHALL BE MONITORED BY FACP-E70. PROVIDE REQUIRED ADDRESSABLE CONTROL MODULES AND SUPERVISORY RELAYS TO MONITOR EACH DEVICE. PROVIDE CONDUIT AND WIRING AS REQUIRED.
8. POWER METERING PANEL FURNISHED BY SECTION 26 09 00 SYSTEM SUPPLIER. PROVIDE CURRENT TRANSFORMERS IN PP-E70 TO MONITOR INCOMING FEEDER. PROVIDE WIRING AND CONDUIT BETWEEN PP-E70 AND POWER METERING PANEL AS SHOWN ON THE ONE-LINE DIAGRAM.
9. FUME HOOD RECEPTACLES, LIGHT FIXTURE, AND 2-POLE SWITCH PROVIDED AS SPECIFIED IN DIVISION 11 AND WIRED BY DIVISION 26. REFER TO SPECIFICATION SECTION 11 53 00 FOR A LISTING OF ELECTRICAL DEVICES FURNISHED WITH THE FUME HOOD.

KEY NOTES:

10. PROVIDE A FLUSH-MOUNTED BOX ON BUILDING EXTERIOR FOR CARD READER. PROVIDE 3/4" CONDUIT FROM BOX TO ACCESS CONTROL PANEL IN THE ELECTRICAL ROOM. PROVIDE 3/4" CONDUIT FROM BOX TO DOOR FRAME FOR ELECTRIC STRIKE. WIRING SHALL BE FURNISHED AND INSTALLED BY THE SECTION 28 10 00 SYSTEM SUPPLIER.
11. INSTALL DIVISION 8 FURNISHED RADIO CONTROL RECEIVER ON INSIDE OF BUILDING AND PROVIDE 3/4" CONDUIT FROM RECEIVER THROUGH EXTERIOR WALL AT 14'-0" AFG WITH CGB FITTING AT EXTERIOR WALL. INSTALL DIVISION 8 FURNISHED ANTENNA ON EXTERIOR WALL AND DIVISION 8 FURNISHED ANTENNA CABLE IN CONDUIT FROM RECEIVER TO ANTENNA WITH DRIP LOOP AT ANTENNA.
12. RECEPTACLE PROVIDED BY DIVISION 23 AND WIRED BY DIVISION 26.
13. OVERHEAD GARAGE DOOR CONTROLS FURNISHED AS SPECIFIED IN DIVISION 8 AND INSTALLED AND WIRED BY DIVISION 26. REFER TO DIVISION 8 OF THE SPECIFICATIONS FOR OPERATING DESCRIPTION AND ADDITIONAL CONTROLS TO BE INSTALLED AND WIRED BY DIVISION 26. MOTOR DISCONNECT SHALL BE MOUNTED ADJACENT TO MOTOR.
14. LABORATORY HOOD EXHAUST FAN SHALL BE CONTROLLED BY LIGHT SWITCH. DAMPER SHALL OPEN WHEN THE FAN IS RUNNING AND SHALL CLOSE WHEN THE FAN SHUTS DOWN. PROVIDE 2~#14 IN 3/4" CONDUIT FROM LIGHT SWITCH TO RTU-E70-01 CONTROL PANEL FOR INTERLOCK WITH RTU CONTROLS.
15. EMERGENCY LIGHTING UPS'S SHALL BE SURFACE-MOUNTED ON THE WALL STACKED ABOVE EACH OTHER. ASSOCIATED FIXTURES SHALL BE WIRED IN SERIES THROUGH THE UPS FROM LOAD SIDE OFF THE CONTROL DEVICE. EMERGENCY CIRCUITS SHALL BE INSTALLED WITHIN DEDICATED CONDUIT AND BOXES. PROVIDE SEPARATE REFERENCE VOLTAGE CIRCUIT TO POWER THE UPS FROM THE LINE SIDE OF THE CONTROL DEVICE.
16. SEE DEWATERING SYSTEM CONDUIT AND WIRING SCHEDULE ON DRAWING 99-E6.15 FOR CONDUIT AND WIRING ASSOCIATED WITH DEWATERING SYSTEM EQUIPMENT AND INSTRUMENTATION.
17. MAU-E70-01 AND MAU-E70-02 CONTROL PANELS FURNISHED BY DIVISION 23 AND INSTALLED AND WIRED BY DIVISION 26.

KEY NOTES:

18. ONLY ELECTRICAL WORK (I.E. POWER LIGHTING SYSTEM, AND CONDUIT) SERVING THIS AREA SHALL BE INSTALLED WITHIN THIS SPACE. ALL OTHER ELECTRICAL WORK SHALL NOT BE ROUTED THROUGH THIS SPACE.
19. DUCT SMOKE DETECTOR SHALL BE INSTALLED IN VERTICAL FACE OF DUCT. SAMPLING TUBE SHALL EXTEND TO OPPOSITE DUCT WALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE REQUIRED CONDUIT AND WIRING BETWEEN DUCT SMOKE DETECTOR AND REMOTE TEST SWITCH IN ELECTRICAL ROOM.
20. EQUIPMENT PROVIDED BY DIVISION 46 AND WIRED BY DIVISION 26.
21. MOUNT ANTENNA ON BUILDING EXTERIOR. PROVIDE ANTENNA CABLE IN 1" CONDUIT FROM RADIO TO ANTENNA.
22. PROVIDE 1" CONDUIT BETWEEN FACP AND THE WIRELESS RADIO FOR SECTION 28 46 00 PROVIDED FIRE ALARM SIGNAL WIRING.
23. PROVIDE ELEVATOR RECALL ADDRESSABLE CONTROL MODULE FOR MONITORING ELEVATOR RECALL SMOKE AND HEAT DETECTORS AT THE ELEVATOR CONTROL PANEL AND AT THE FACP. CONTROL MODULES SHALL BE LOCATED WITHIN 3'-0" OF ELEVATOR CONTROL PANEL.
24. PROVIDE 2~#12 IN 3/4" CONDUIT FROM MAU-E70-01 TO SCC-E70 TO START EF-E70-01 WHENEVER MAU-E70-01 IS RUNNING.
25. EXHAUST FAN POWERED THROUGH CONTACTOR IN SCC-E70. REFER TO SPECIFICATION 26 09 00 PART 3 FOR MORE INFORMATION.
26. THERMOSTAT PROVIDED BY DIVISION 23. PROVIDE 3/4" CONDUIT FROM THERMOSTAT TO RTU-E70-01 FOR DIVISION 23 INSTALLED WIRING.
27. PROVIDE 2~#12 IN 3/4" CONDUIT FROM SCC-E70 TO MAU-E70-02 TO START MAU WHENEVER EF-E70-06 IS RUNNING.
28. Add Keynote 10 ZS-E70-06 CR-E70-06 ZS/ES/YE
29. THROUGH ONE POLE OF THE ROOM OCCUPANCY SENSOR SHOWN ON DRAWING E70-E1.02.
30. THERMOSTAT PROVIDED BY DIVISION 23. PROVIDE 3/4" CONDUIT FROM THERMOSTAT TO EDH-E70-03 FOR DIVISION 23 INSTALLED WIRING.
31. THERMOSTAT PROVIDED BY DIVISION 23. PROVIDE 3/4" CONDUIT FROM THERMOSTAT TO EDH-E70-04 FOR DIVISION 23 INSTALLED WIRING.
32. SHROUD PROVIDED BY ELEVATOR MANUFACTURER.
33. PROVIDE RECESSED BOX FOR GRAPHIC TOUCHSCREEN. INSTALL TOUCHSCREEN POWER SUPPLY IN SURFACE MOUNTED BOX ABOVE SUSPENDED CEILING AND PROVIDE 2~#14 TO TOUCHSCREEN THROUGH RECESSED BOX. CAT6 CABLE TO TOUCHSCREEN SHALL BE THROUGH RECESSED BOX.
34. FLOW INDICATOR SHALL BE FLUSH-MOUNTED ON THE DOOR OF THE SCC. REFER TO SPECIFICATION SECTION 26 09 00 PART 3 FOR ADDITIONAL INFORMATION.
35. MOUNT LIGHT SWITCH FOR ELEVATOR PIT LIGHT IN PIT BELOW LOWER LEVEL ELEVATOR STOP.
36. NOT USED.
37. THERMOSTAT PROVIDED BY DIVISION 23. PROVIDE 3/4" CONDUIT FROM THERMOSTAT TO WSHP-E70-01 FOR DIVISION 23 INSTALLED WIRING.
38. CONFIRM LOCATION OF VIDEO MASTER STATION WITH OWNER.
39. PROVIDE SWITCHBOARD MAT AS SPECIFIED IN SECTION 12 48 43 SPANNING ENTIRE FRONT OF SCC AND PP-E70.



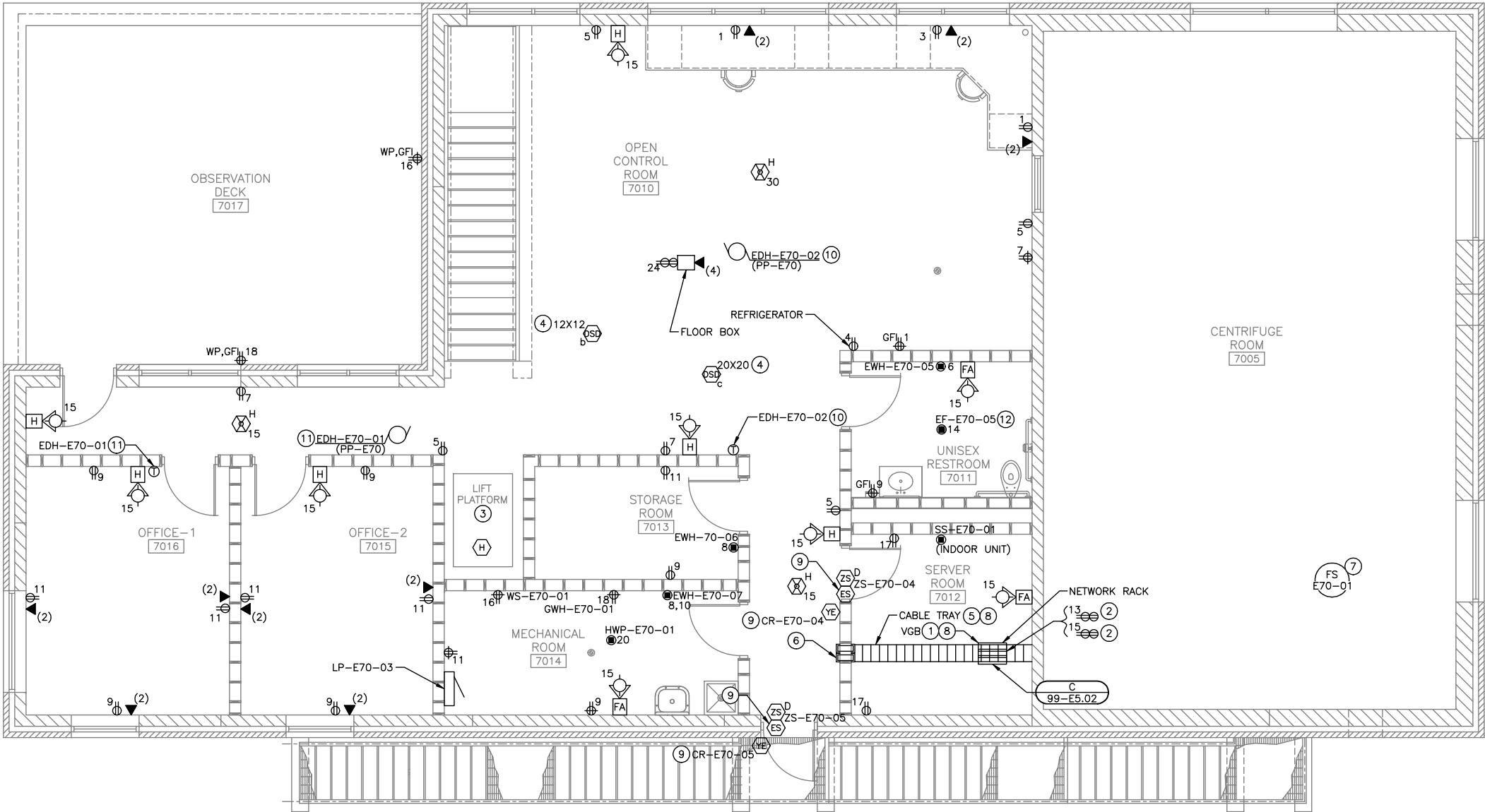
DEWATERING AND OPERATIONS BUILDING
LOWER LEVEL ELECTRICAL PLAN

WEST SEWAGE TREATMENT PLANT IMPROVEMENTS
CITY OF CREST HILL
WILL COUNTY, ILLINOIS

JOB NO.
3894.051
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DOMINIC GATTONE

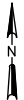


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E70-E1.01



UPPER LEVEL ELECTRICAL PLAN

0 1' 2' 4' 8'



GENERAL NOTES:

1. REFER TO SPECIFICATION SECTION 26 09 90 FOR WIRING ASSOCIATED WITH THE PLANT SCADA SYSTEM.
2. REFER TO SPECIFICATION SECTION 01 11 00 FOR INFORMATION ON CONSTRUCTION SEQUENCING.

KEY NOTES:

- ① VERTICAL RACK GROUNDING BUS BAR (VGB) FURNISHED WITH NETWORK RACK. PROVIDE #6 GREEN INSULATED GROUND CONDUCTOR IN CONDUIT FROM VGB TO GROUND BUS IN PP-E70 IN ELECTRICAL ROOM.
- ② MOUNT RECEPTACLE TO NETWORK RACK FRAME.
- ③ ONLY ELECTRICAL WORK (I.E. POWER LIGHTING SYSTEMS AND CONDUIT) SERVING THIS AREA SHALL BE INSTALLED WITHIN THIS SPACE. ALL OTHER ELECTRICAL WORK SHALL NOT BE ROUTED THROUGH THIS SPACE.
- ④ DUCT SMOKE DETECTOR SHALL BE INSTALLED IN VERTICAL FACE OF DUCT. SAMPLING TUBE SHALL EXTEND TO OPPOSITE DUCT WALL PER MANUFACTURERS RECOMMENDATIONS. PROVIDE REQUIRED CONDUIT AND WIRING BETWEEN DUCT SMOKE DETECTOR AND REMOTE TEST SWITCH IN ELECTRICAL ROOM.
- ⑤ PROVIDE LADDER TYPE CABLE TRAY. LOCATE TRAY 8' ABOVE THE FINISHED FLOOR. PROVIDE ONE CABLE DROPOUT AT THE NETWORK RACK.
- ⑥ PROVIDE TWO 4" FIRE - RATED CABLE PATHWAYS INSTALLED AT 10' AFF.
- ⑦ PROVIDE 2~#14 AND #14 GROUND IN 3/4" CONDUIT FROM FLOW SWITCH TO SCC-E70.
- ⑧ PROVIDE #6 GREEN INSULATED GROUND CONDUCTOR FROM CABLE TRAY TO VERTICAL RACK GROUNDING BUS BAR.
- ⑨ PROVIDE A FLUSH-MOUNTED BOX ON ROOM EXTERIOR FOR CARD READER. PROVIDE 3/4" CONDUIT FROM BOX TO ACCESS CONTROL PANEL IN THE ELECTRICAL ROOM ON THE LOWER LEVEL. PROVIDE 3/4" CONDUIT FROM BOX TO DOOR FRAME FOR ELECTRIC STRIKE. WIRING SHALL BE FURNISHED AND INSTALLED BY SECTION 28 10 00 SYSTEM SUPPLIER.
- ⑩ THERMOSTAT PROVIDED BY DIVISION 23. PROVIDE 3/4" CONDUIT FROM THERMOSTAT EDH-E70-02 FOR DIVISION 23 PROVIDED WIRING.
- ⑪ THERMOSTAT PROVIDED BY DIVISION 23. PROVIDE 3/4" CONDUIT FROM THERMOSTAT TO EDH-E70-01 FOR DIVISION 23 PROVIDED WIRING.
- ⑫ FAN SHALL BE POWERED THROUGH ONE POLE OF THE ROOM OCCUPANCY SENSOR SHOWN ON DRAWING E70-E1.04.

DEWATERING AND OPERATIONS BUILDING
UPPER LEVEL ELECTRICAL PLAN

WEST SEWAGE TREATMENT PLANT IMPROVEMENTS
CITY OF CREST HILL
WILL COUNTY, ILLINOIS

NO.	REVISIONS	DATE:	
		ISSUED FOR BID	CONFORMED DRAWINGS
1		5/12/2022	12/1/2022
2			X/X/2023
3			

JOB NO.
3894.051
PROJECT MGR.
DOMINIC GATTONE



SHEET
199
E70-E1.03

PROPOSAL
WORKSHEET SUMMARY

Project: CITY OF CREST HILL - WEST SEWAGE TREATMENT PLANT IMPROVEMENTS

Change Order Request #: CPR012

To: Strand Associates, Inc.
Dominic Gattone

Date: 10/9/2023
A/E Project #: IDFPR No. 184-001273
VCC Project #: 11108.00

WORK DESCRIPTION
Modify spacing between Str15 force mains and floor doors in Influent Pump

Line No	Cost Description	Labor Amt	Material Amt	Equip & Other Amt	Sub-Contractor Amt	Sub-Total
1	GA Rich - Per Attached				\$ 12,888.00	\$ 12,888.00
2						\$ -
3						\$ -
4						\$ -
5						\$ -
6						\$ -
7						\$ -
8						\$ -
9						\$ -
10						\$ -
11						\$ -
12						\$ -
13						\$ -
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						\$ -
Sub-Total		\$ -	\$ -	\$ -	\$ 12,888.00	\$ 12,888.00

ACCEPTANCE OF PROPOSAL (OWNER): City of Crest Hill

Name/Title: Blaine Kline, Asst Director of Public Works

Signature: _____

Date: _____

Contractor's Net: \$ -
Sub-Contractor's Net: \$ 12,888.00
Net Subtotal: \$ 12,888.00
Contractor's Fee: (15% on Own Work, 5% on Subs, & 0% on Credits): \$ 644.40
Sub-Total: \$ 13,532.40
Bonds & Insurance - 1%: \$ 135.32
Worksheet Total: \$ 13,668.00

ACCEPTANCE OF PROPOSAL (A/E): Strand Associates, Inc.

Name/Title: Dominic Gattone, PE

Signature: _____

Date: _____

ACCEPTANCE OF PROPOSAL (CONTRACTOR): VISSERING CONSTRUCTION CO

Name/Title: Tony Marzetta, Project Manager

Signature: 

Date: October 9, 2023

**CREST HILL WEST SEWAGE
TREATMENT PLANT IMPROVEMENTS
CITY OF CREST HILL**

FROM:

G A Rich & Sons, Inc.
P O Box 50
Deer Creek, IL 61733

PROJECT:

Crest Hill
West Plant upgrades

JOB NUMBER:

22-5-16

RFP#

CPR 012_STR 20 influent pump discharge piping
Modificaitons 812

CONTRACT WORK: Process Piping / Plumbing

I DESCRIPTION OF CHANGE:

provide and install 4 12" 11.25 bends, and 12" Spool as indicated on CPR 12.

II SUMMARY OF DETAILED BREAKDOWN:

	Additions	Deletions	Net Total
A. MATERIAL	<u>\$10,092.00</u>	<u></u>	<u>\$10,092.00</u>
B. LABOR	<u>\$2,496.00</u>	<u></u>	<u>\$2,496.00</u>
C. EQUIPMENT	<u>\$300.00</u>	<u></u>	<u>\$300.00</u>
D. OTHER COSTS			
1 TAX EXEMPT	8.25% of MAT) - Deletion -0-		<u>\$0.00</u>
2 EXPENDABLE TOOLS	(2.5% of LABOR) - Deletion -0-		<u>\$0.00</u>
E. SUB TOTAL	(A+B+C+D1+D2)		<u>\$12,888.00</u>
F. OVERHEAD AND PROFIT	(E x 15%) - Deletion -0-		<u>\$0.00</u>
G. TOTAL	(E + F)		<u>\$12,888.00</u>

III CONTRACTOR'S MARK-UP ON WORK OF SUBCONTRACTORS

Detailed Breakdowns and Summaries from each Sub-Contractor must be attached.

SUBCONTRACTOR: Firm Name	CONTRACT WORK: Description	PROPOSAL
1 <u></u>	<u></u>	<u></u>
2 <u></u>	<u></u>	<u></u>
3 <u></u>	<u></u>	<u></u>
4 <u></u>	<u></u>	<u></u>
H		
I	(H x 6%) - Deletion -0-	<u>\$0.00</u>

IV FINAL SUMMARY

J PROPOSAL	(G+H+I)	<u>\$12,888.00</u>
K BONDS	(2.5% of PROPOSAL) - Deletion -0-	<u>\$0.00</u>
L BUILDER'S RISK INSURANCE (if applicable)	(0.3% of PROPOSAL) - Deletion -0-	<u></u>
M TOTAL PROPOSAL for subject RFP increase (decrease) in contract amount		<u>\$12,888.00</u>
N Time added to contract	<u>1</u> Calendar Days	

CONTRACTOR

SIGNATURE Bret Verardo

TITLE Project Manager DATE 09/27/23

SAI: Reduce foreman and pipefitter time to 8 hours each.

SAI: Already on site for this plumbing work. Please remove.



Cost Proposal Request
West Sewage Treatment Plant Improvements
City of Crest Hill
Contract 1-2022
August 10, 2023

COST PROPOSAL NO.: 012

TO: Vissering Construction
ISSUED BY: Dominic Gattone, P.E.

DISTRIBUTION

Tony Marzetta, Project Manager	Vissering Construction (Contractor)
Blaine Kline	City of Crest Hill
Dominic Gattone, P.E.	Strand Associates, Inc.®

Please submit an itemized quotation for changes in the Contract Price and Time incidental to proposed modifications to the Contract Documents described herein.

The intent of this cost proposal request is to modify the spacing between the Structure 15 force mains and their respective floor doors in the Influent Pump Station top slab.

DESCRIPTIONS AFFECTING THE DRAWINGS

012-01 Drawing 15-ASM3.01 (Sheet 63)

See comments on attached PDF.

SAI CPR 12

Move large pumps' centerline dimension closer to wall. Typ. both large pumps.

See also modifications to Keynote 7.

GENERAL NOTES:

- FOR GENERAL STRUCTURAL/ARCHITECTURAL NOTES SEE DRAWING 99-ASM6.03.
- REFER TO GENERAL NOTES ON DRAWING 15-ASM1.01.

For large pumps, provide 24" wall sleeve.

For small pumps, provide, provide 14" wall sleeve in accordance with the mechanical seal manufacturer's recommendations.

KEY NOTES:

- ROUGHENED CONSTRUCTION JOINT WITH HYDROPHILIC WATERSTOP.
- 4,000 PSI CONCRETE FILL.
- CLASS X CONCRETE.
- PROVIDE ECCENTRIC REDUCER (TYP. OF 5).
- SELECT STRUCTURAL FILL.
- ALUMINUM RAILING W/ TOEBOARD B
99-ASM5.03.
- ~~CORE HOLE THROUGH WALL, INSTALL PIPE WITH MECHANICAL SEAL AND GROUT ANNULAR SPACE FULL TO PROVIDE WATERTIGHT SEAL.~~
- INTERMEDIATE GUIDE RAIL BRACKETS PER PUMP MANUFACTURER'S RECOMMENDATIONS (TYP. OF 3).
- ROUGHEN EXISTING SURFACE TO 1/4" AMPLITUDE. PROVIDE #4@18" ADHESIVE ANCHOR DOWELS, EMBED 4".
- PROVIDE 5@12" ADHESIVE ANCHOR DOWELS, EMBED 4". LAP 1'-9".

DATE:		REVISIONS	
5/12/2022	1	ISSUED FOR BID	
12/1/2022	2	CONFORMED DRAWINGS	
4/13/2023	3	CHANGE ORDER NO. 1	

Use two 11-1/4 degree fittings to change this dimension to 1'-3". Provide spool between fittings as required.

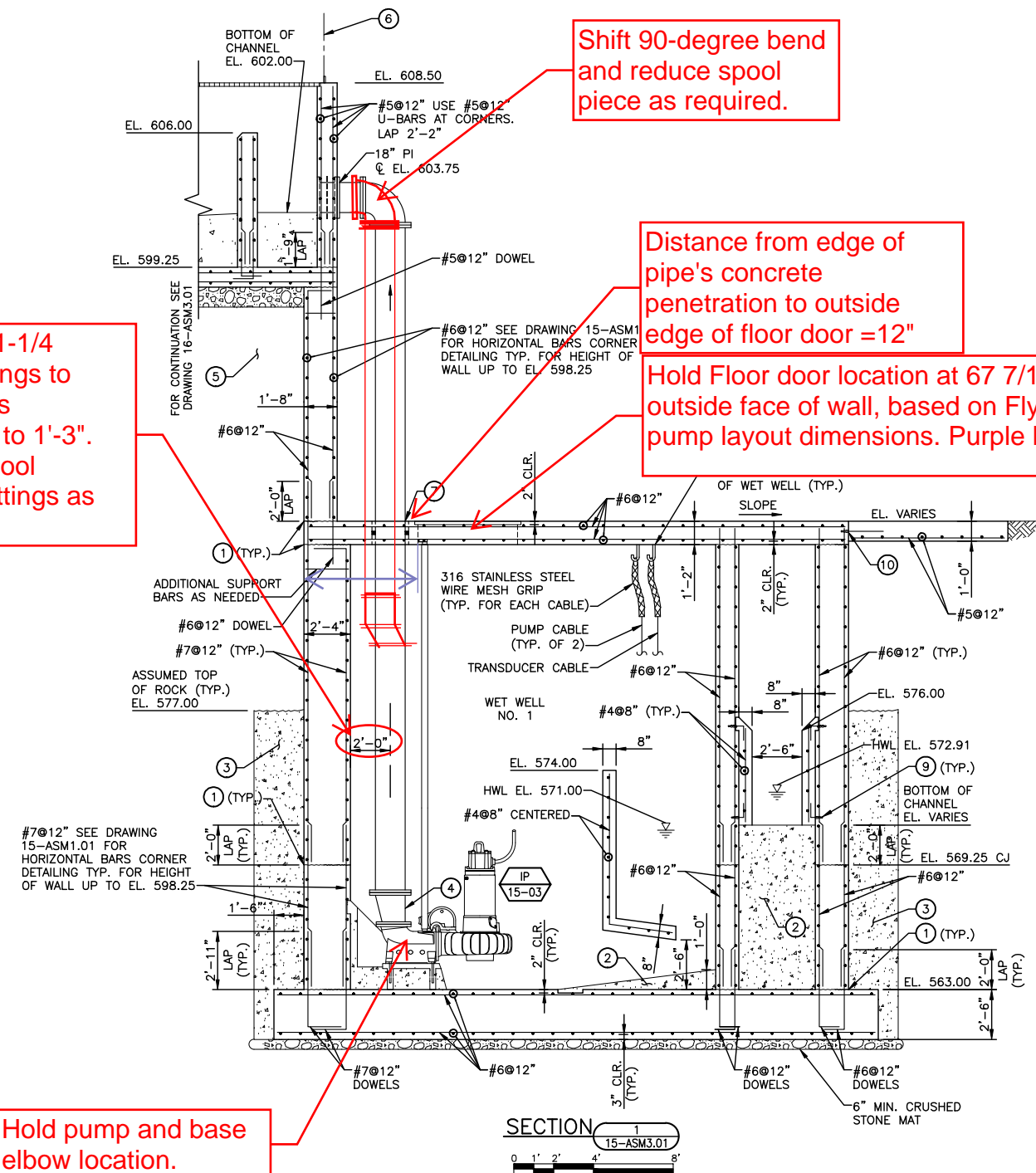
Shift 90-degree bend and reduce spool piece as required.

Distance from edge of pipe's concrete penetration to outside edge of floor door = 12"

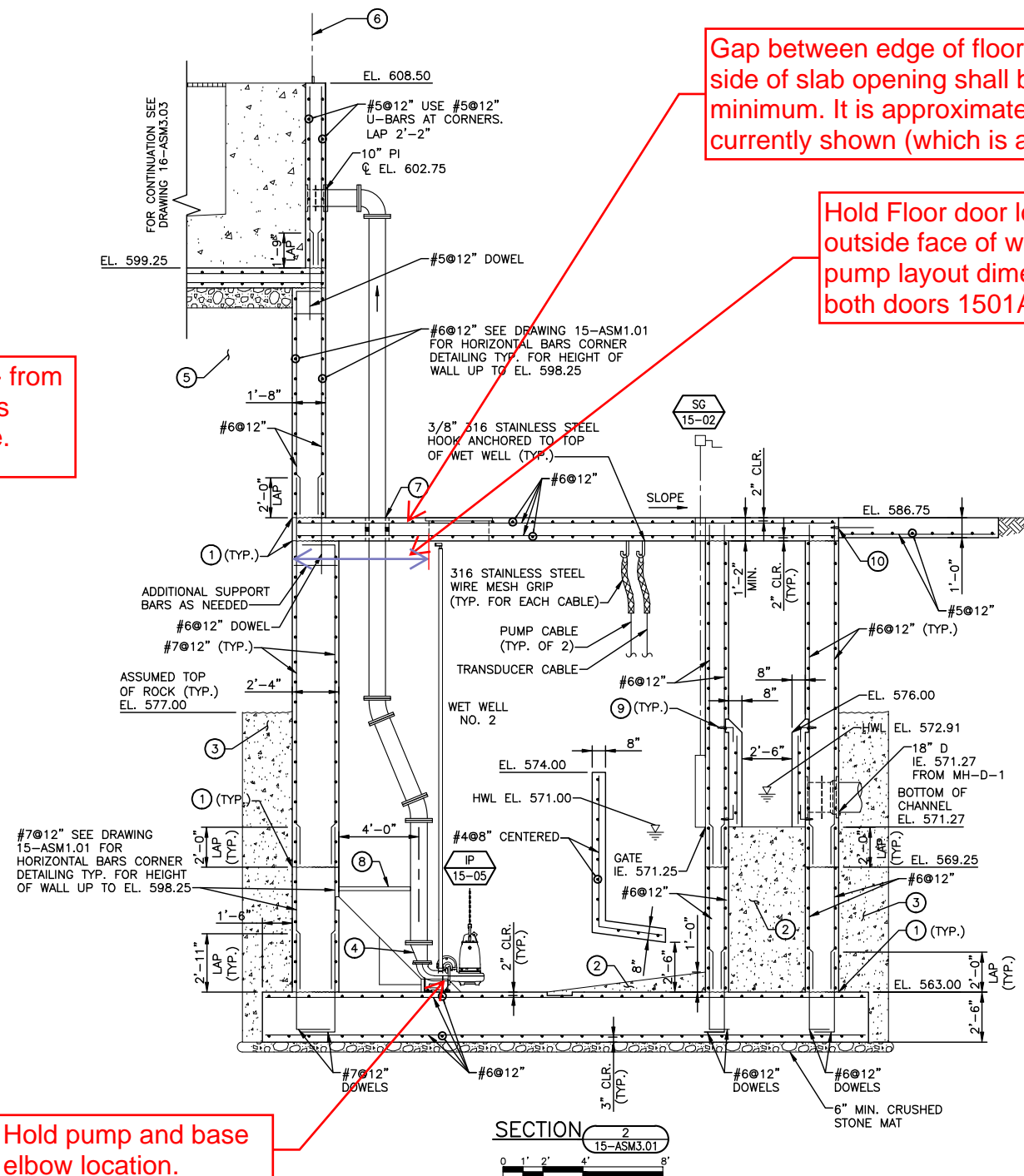
Hold Floor door location at 67 7/16"- from outside face of wall, based on Flygt's pump layout dimensions. Purple line.

Gap between edge of floor door and right side of slab opening shall be 12" minimum. It is approximately 24" as currently shown (which is acceptable).

Hold Floor door location at 82"- from outside face of wall, based on Flygt's pump layout dimensions. Purple line. Typ both doors 1501A and D.



Hold pump and base elbow location.



Hold pump and base elbow location.

INFLUENT PUMP STATION SECTIONS - 1

WEST SEWAGE TREATMENT PLANT IMPROVEMENTS
CITY OF CREST HILL
WILL COUNTY, ILLINOIS

JOB NO.
3894.051
PROJECT MGR.
DOMINIC GATTONE

SA
STRAND
ASSOCIATES®

SHEET
63
15-ASM3.01



Cost Proposal Request
West Sewage Treatment Plant Improvements
City of Crest Hill
Contract 1-2022
August 10, 2023

COST PROPOSAL NO.: 012

TO: Vissering Construction
ISSUED BY: Dominic Gattone, P.E.

DISTRIBUTION

Tony Marzetta, Project Manager	Vissering Construction (Contractor)
Blaine Kline	City of Crest Hill
Dominic Gattone, P.E.	Strand Associates, Inc.®

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012-01 Drawing 15-ASM3.01 (Sheet 63)

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- 4,000 PSI CONCRETE FILL.
- CLASS X CONCRETE.
- PROVIDE ECCENTRIC REDUCER (TYP. OF 5).
- SELECT STRUCTURAL FILL.
- ALUMINUM RAILING W/ TOEBOARD B
99-ASM5.03.
- ~~CORE HOLE THROUGH WALL, INSTALL PIPE WITH MECHANICAL SEAL AND GROUT ANNULAR SPACE FULL TO PROVIDE WATERTIGHT SEAL.~~
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DATE:		REVISIONS	
5/12/2022	1	ISSUED FOR BID	
12/1/2022	2	CONFORMED DRAWINGS	
4/13/2023	3	CHANGE ORDER NO. 1	

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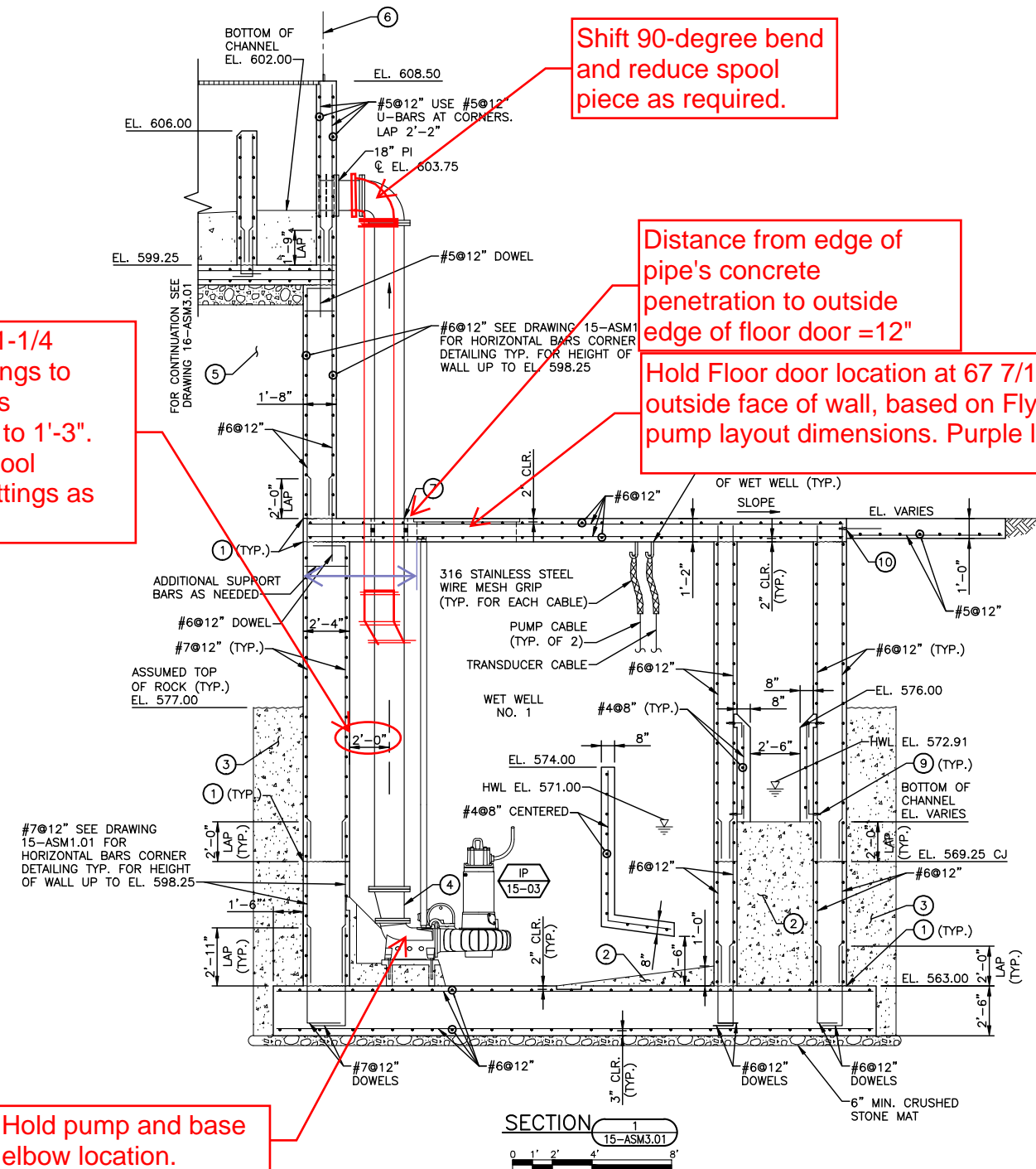
Shift 90-degree bend and reduce spool piece as required.

Distance from edge of pipe's concrete penetration to outside edge of floor door = 12"

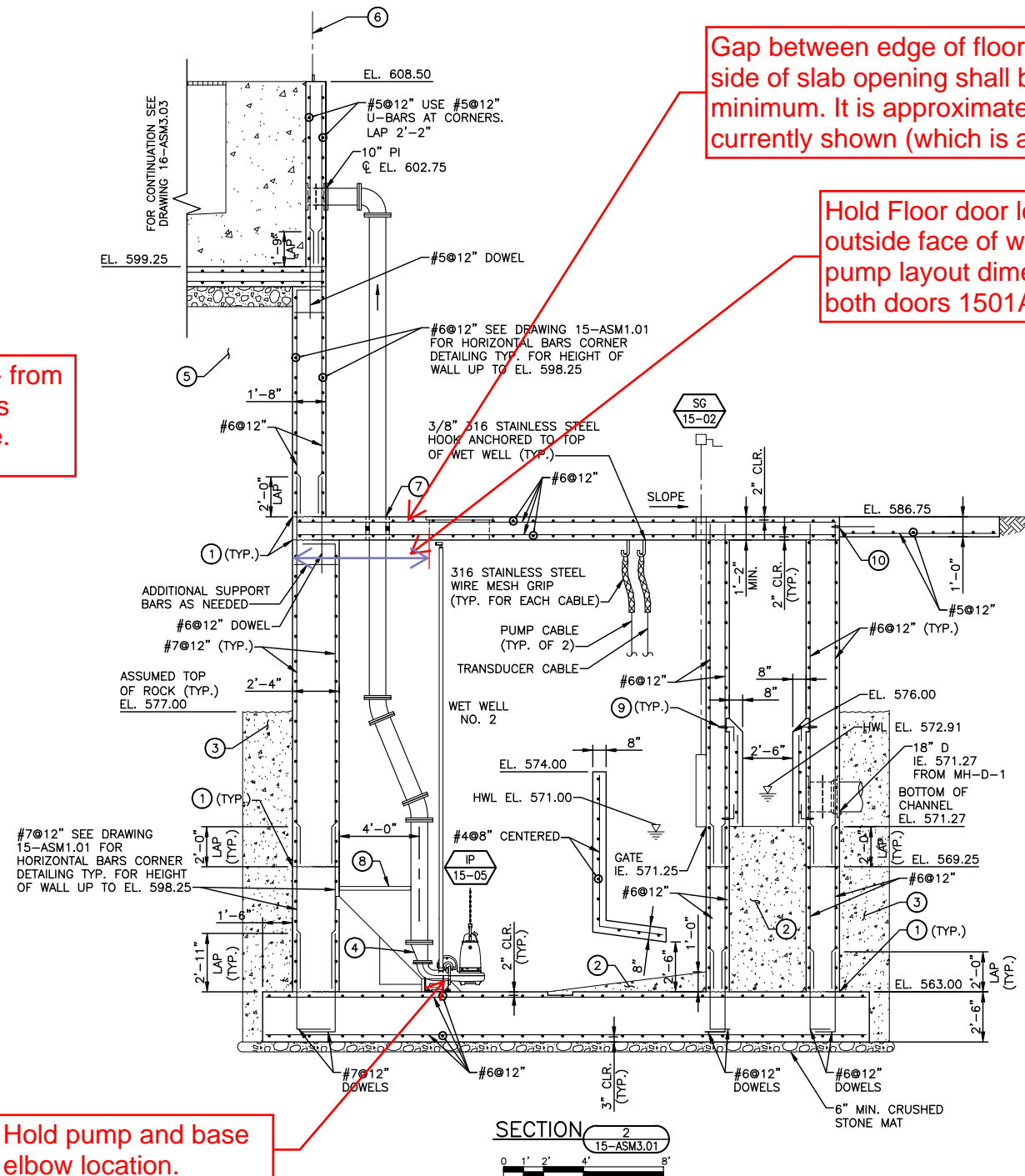
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Hold pump and base elbow location.



Hold pump and base elbow location.

INFLUENT PUMP STATION SECTIONS - 1

WEST SEWAGE TREATMENT PLANT IMPROVEMENTS
CITY OF CREST HILL
WILL COUNTY, ILLINOIS

JOB NO.
3894.051
PROJECT MGR.
DOMINIC GATTONE

SA
STRAND
ASSOCIATES®

SHEET
63
15-ASM3.01



WORK DESCRIPTION	
PLW Pit & Filter Control Panel Relocation	

Date:



September 14, 2023

Project Name: West Sewage Treatment Plant Improvements

Project Location: City of Crest Hill, Illinois

Consulting Engineer: Strand Associates, Inc

WME Change Order – C06 Rev A

Vissering Construction

Tony Marzetta - tmarzetta@vissering.com

Project 11108.00

Reference: CPR-013

Design, CAD, Programming, Production and Equipment (Contegra Flood Switch LS-C45-01*) to modify the controls at SCC-C45

*** Same Flood Switch previously submitted and approved (LS-B20-01, LS-D50-02, LS65-01)**

Wunderlich-Malec Environmental is pleased to offer the following add proposal.

Total price for the Add is \$1,730.00 Net Excluding Tax

Breakout

Equipment - \$230.00

Engineering (Design) - \$330.00

Drafting (CAD) - \$200.00

Production - \$90.00

Programming - \$330.00

Project Management – \$550.00

This proposal consists of one (1) page. If you have any questions regarding this proposal, please do not hesitate to contact me at 952-843-5846

Yours Truly,

Ken Kawiecki

SIGNED ELECTRONICALLY

Ken Kawiecki

ken.kawiecki@wmeng.com

Wunderlich-Malec Environmental

“Employee Owned, Customer Committed”

EEO/Affirmative Action Employer

Corporate Office 6101 Blue Circle Drive, Eden Prairie, MN 55343 Phone: 952-933-3222 Fax: 952-933-0608 www.wmeng.com
Arizona California Colorado Georgia Illinois Maine Minnesota New Hampshire New Mexico New York North Carolina Ohio Oregon Tennessee Texas Wisconsin



Proposal CCN-012

October 11, 2023

Mr. Tony Marazetta
Vissering Construction
1631 Gaylord Rd.
Crest Hill, IL 60403
P: 815.673.5511
C:
Email: tmarzetta@vissering.com

Re: Cost Proposal Request 013 – FCP Relocation & Added Float Alarm

Connelly Electric proposes to furnish the materials and perform the labor necessary for the completion of the above referenced project per electrical plans dated 04/13/23 and CPR-013 dated 09/08/2023 and as described below:

Scope of Work:

- Drawing C45-ASM1.01 (Sheet 117)
 - Relocate Filter Control Panels within Structure C45 from platform to where shown on marked up drawing
 - Extend Filter Control Panels conduit and wiring to new locations
 - F&I (1) ¾ conduit and (2) #14 conductors from SCC to sump pit float

Exclusions:

- Housekeeping Pads
- Premium time
- Liquidated Damages
- Architectural services
- Unforeseen conditions
- Scope gap – Only what is listed above

This proposal is based on acceptance within thirty days and 100% completion prior to June 1, 2024. All work to be performed in a neat and workmanlike manner in accordance with Connelly Electric Company Standards and our interpretation of the scope drawings and specifications. Monthly progress payments are to be made as the job proceeds. Final payment is to be made within 30 days of completion.

Base bid per Scope of Work and Exclusions above = \$11,041.00

Respectfully submitted,

Alex Szepelak
Connelly Electric Co.

Accepted by: _____ Date: _____

Title: _____

Cost Summary Sheet

Connelly Electric
Crest Hill West Sewage Treatment Plant Improvements

CRP No.: 013

Date 10/11/2023

Description: CPR-013 FCP Relocation & Float Alarm (Adder)

LABOR	LABOR Description	Hours	Wage/Hr	Fringe/Hr	Subtotal Labor/Hr	LABOR WAGES & BENEFITS	PR Taxes & Ins/Hr	LABOR TAXES & INSURANCE	TOTAL LABOR
103	ELECTRICIAN FM ST (Local #176A) 1st SHIFT	50.78	\$ 56.68	\$ 46.01	\$ 102.69	\$ 5,214.60	\$ 16.70	\$ 847.92	\$ 6,062.52

SUBTOTAL **50.78** **\$ 5,214.60** **\$ 847.92** **\$ 6,062.52**
 OH & PROFIT @15 % OF LABOR WAGES AND BENEFITS = **\$ 782.00** **\$ 782.00** **\$ 782.00**
 OH & PROFIT @ 15 % OF LABOR TAXES AND INSURANCE = **\$ 127.19** **\$ 127.19** **\$ 127.19**
TOTAL LABOR **\$ 6,971.71**

EQUIPMENT	EQUIPMENT Description	Hours	HOURLY RATE	TOTAL EQUIPMENT
	F150 Pickup Truck	50.78	\$ 29.02	\$ 1,473.64
				\$ -
				\$ -
				\$ -
TOTAL EQUIPMENT				\$ 1,473.64
OH & PROFIT @ 15% OF EQUIPMENT				\$ 221.05
EQUIPMENT TOTAL				\$ 1,694.68

MATERIAL	MATERIALS Description	Qty	Unit	UNIT RATE	TOTAL MATERIALS
	Materials (See Attached)	1	LS	1,742.84	\$ 1,742.84
	General Expenses	51	HRS	6.35	\$ 322.45
					\$ -
SUBTOTAL					\$ 2,065.29
OH & PROFIT @ 15 % OF PERMANENT MATERIAL =					\$ 309.79

TOTAL MATERIAL **\$ 2,375.09**

SUBCONTRACT	SUBCONTRACT Description	Qty	Unit	UNIT RATE	TOTAL SUB RATE
					\$ -
					\$ -
					\$ -
					\$ -
SUBTOTAL					\$ -
ADMIN MU @ 5 % =					\$ -
TOTAL SUBCONTRACT					\$ -

SUBTOTAL **\$ 11,041.47**

TOTAL PRICE Rounded **\$11,041.00**



40 S. Addison Rd.
Suite 100
Addison, IL 60101

Client Address:

Vissering Construction

1631 Gaylord Rd.
Crest Hill, IL 60403
Telephone: 815.673.5511
Contact: Tony Marazetta

CHANGE NOTICE

Connelly CCN # 12
Field Ticket # CPR-013
Date: 10/11/2023
Project Name: Crest Hill WWTP - West Sewage Treatment Plant
Project Number: 22-0686
Page Number: 1

Site Address:

Vissering Construction

Contact: Tony Marazetta
1631 Gaylord Rd.
Crest Hill, IL 60403

Work Description

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
This price is good for acceptance within **10** days from the date of receipt.
We request a time extension of **0** days.
We will supply and install all materials, labor, and equipment as per your instructions on **Connelly CCN # 12**.

Description: CPR #013 Relocate FCP-C45-01,02,03 and add float alarm to SCADA

Itemized Breakdown

Bid Item	Material(\$)	Mat(%)	Labor Hrs	Lab(%)
Sump Pit Float	1,384.08	79.42	38.98	76.76
Filter Control Panels	358.76	20.58	11.80	23.24
Total	1,742.84	100.00	50.78	100.00

Sump Pit Float

Description	Qty	Total Mat.	Total Hrs.
3/4" EYS-216 (C-H)	1	30.26	0.75
3/4" GRC CUT&THREAD	5	0.00	2.50
3/4" ARC (AL)	110	215.29	7.48
3/4" ARC MYERS HUB	2	13.83	2.70
3/4" ARC COUPLING	11	74.76	0.00
3/4" ARC LB CONDULET	2	30.32	1.74
3/4" ARC 90 ELBOW	4	87.77	1.48
#14 XHHW	260	50.19	1.61
2" CORE WALL/FIRE PROOF	1	214.50	2.40
Cat 6 PVC - Single (in conduit)	130	55.77	1.14
Stainless strut 1 5/8	16	400.00	2.24
3/4 Stainless strut strap	16	65.76	0.48
1/4 Stainless wedge anchor	33	135.63	9.90
#14 WIRE TERM-CONTROL	6	0.00	0.96
GREY SCOTCHLOCK (#14-8)	5	6.25	0.80
CABLE TAG	5	3.75	0.80
Engineering Drawings	1	0.00	2.00
Totals	608	1,384.09	38.98

Filter Control Panels

CHANGE NOTICE

Site Address:

Connelly Electric
40 S. Addison Rd.
Addison, IL 60101

Vissering Construction
1631 Gaylord Rd.
Crest Hill, IL 60403

Connelly CCN # 12
Date: 10/11/2023
Project Name: Crest Hill WWTP - West Sewage Treatment Plant
Project Number: 22-0686
Page Number: 2

Client Address:

Vissering Construction
1631 Gaylord Rd.
Crest Hill, IL 60403

Description	Qty	Total Mat.	Total Hrs.
3/4" ARC (AL)	60	117.43	4.08
#10 XHHW	30	11.78	0.28
#8 XHHW	90	63.07	2.02
Cat 6A PVC - Single (in conduit)	30	17.16	0.33
Stainless strut 1 5/8	4	100.00	0.56
3/4 Stainless strut strap	4	16.44	0.12
1/4 Stainless wedge anchor	8	32.88	2.40
Engineering Drawings	1	0.00	2.00
Totals	227	358.76	11.79

Julie Eurich

From: Bret Verardo <Bret@garich.com>
Sent: Wednesday, November 15, 2023 1:05 PM
To: Julie Eurich
Cc: Tony Marzetta
Subject: RE: Crest Hill WWTP - CPR 13 - PLW Pit and Filter Control Panel Relocations

Julie/Tony,

On this CPR, it appears to be a No cost change for us. The change moves the piping arrangement slightly, and adds a cross, but eliminates some tees. We assume we have NO work associated with the sump pit float.

So please submit a **NC** change for us.

Thank you,

Bret Verardo
GA Rich & Sons Inc

From: Julie Eurich <jeurich@vissering.com>
Sent: Wednesday, October 11, 2023 2:00 PM
To: Bret Verardo <Bret@garich.com>
Cc: Tony Marzetta <tmarzetta@vissering.com>
Subject: RE: Crest Hill WWTP - CPR 13 - PLW Pit and Filter Control Panel Relocations

Bret,

Can you please forward the pricing for CPR013 asap?

Thanks,

Julie Eurich
Project Administrator
Vissering Construction Company
175 Benchmark Industrial Drive, Streator, IL 61364
P: (815) 673-5511 | F: (815) 672-0573
Direct Line: (815) 673-6914
jeurich@vissering.com

From: Julie Eurich
Sent: Monday, October 9, 2023 10:50 AM
To: Alex Szepek (alexander.szepek@connellyelectric.com) <alexander.szepek@connellyelectric.com>; Bret Verardo <bret@garich.com>
Cc: Tony Marzetta <tmarzetta@vissering.com>
Subject: RE: Crest Hill WWTP - CPR 13 - PLW Pit and Filter Control Panel Relocations

Just a reminder that I haven't received your pricing for the attached CPR 013 – PLW Pit & Filter Control Panel Relocations.



Cost Proposal Request
West Sewage Treatment Plant Improvements
City of Crest Hill
Contract 1-2022
September 8, 2023

COST PROPOSAL NO.: 013

TO: Vissering Construction
ISSUED BY: Dominic Gattone, P.E.

DISTRIBUTION

Tony Marzetta, Project Manager	Vissering Construction (Contractor)
Blaine Kline	City of Crest Hill
Dominic Gattone, P.E.	Strand Associates, Inc.®

Please submit an itemized quotation for changes in the Contract Price and Time incidental to proposed modifications to the Contract Documents described herein.

The intent of this cost proposal request is to move the Filter Control Panels with Structure C45.

DESCRIPTIONS AFFECTING THE SPECIFICATIONS

013-01 Section 26 09 90, page 26 09 90-21 -SCADA System I/O Listing SCC-C45 - See edits below.

DESCRIPTIONS AFFECTING THE DRAWINGS

013-02 Drawing C45-ASM1.01 (Sheet 117)

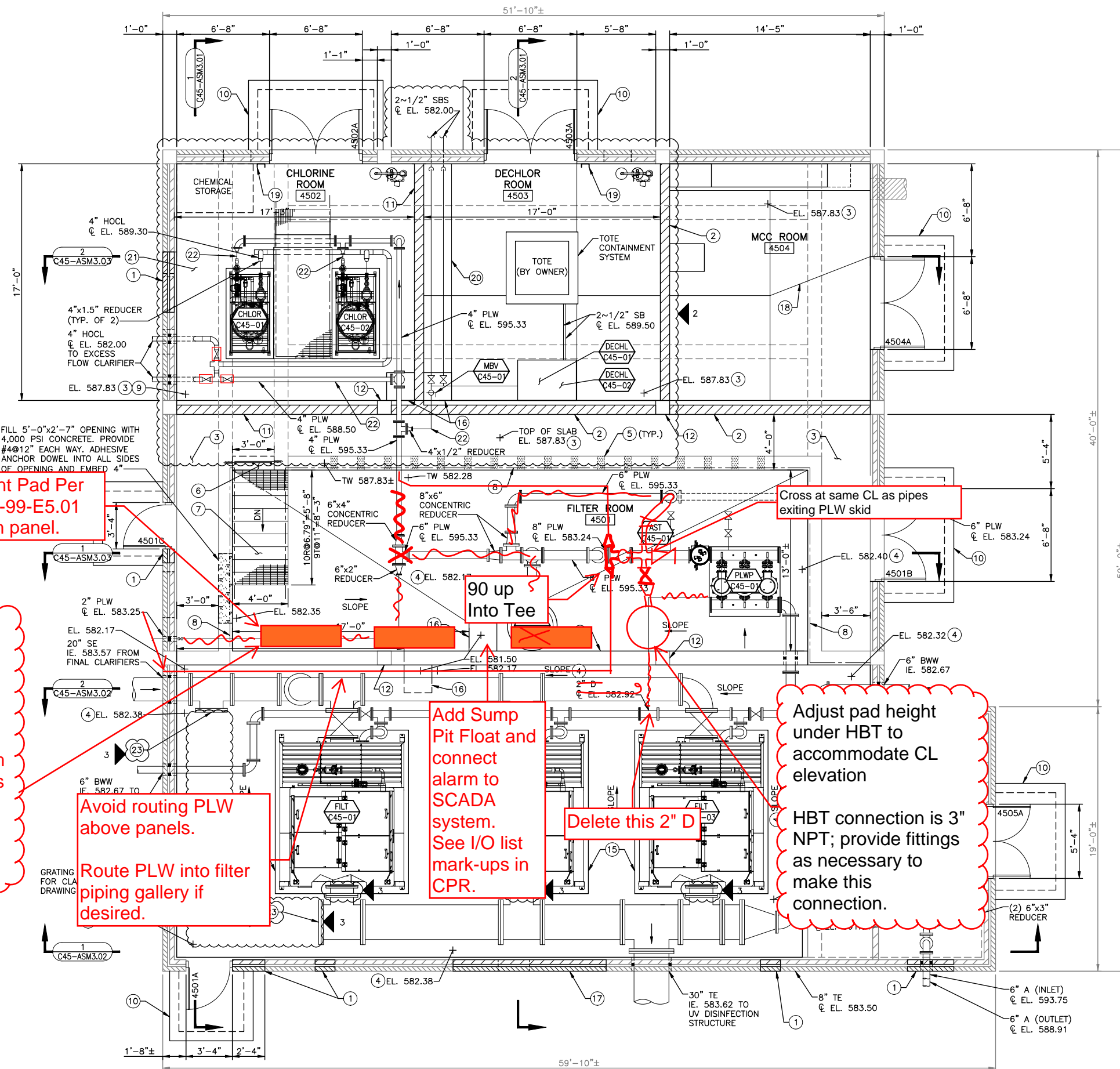
See comments on attached PDF.

Clarification: This CPR is required based on the height of the filter control panels. The manufacturer stated that the panel height could not be modified.

STRAND ASSOCIATES INC. WEST SEWAGE TREATMENT PLANT IMPROVEMENTS CONTRACT 1-2022 CITY OF CREST HILL CREST HILL, ILLINOIS SCADA SYSTEM I/O LISTING - SCC-C45								
SCC	EQUIPMENT NAME	NUMBER	DI	DO	AI	AO	WIRE	COMMENTS
C45	EXCESS FLOW FOR FLOW PACE CONTROL		0	0	0	1	SH. PR.	TO CALCIUM HYPOCHLORITE FEED SYSTEM CONTROL PANEL
C45	DECHLORINATION PUMP NO. 1	DECHL-C45-01						
C45	IN EXTERNAL CONTROL MODE		1	0	0	0	2~#14	FROM PUMP
C45	RUNNING		1	0	0	0	2~#14	FROM PUMP
C45	START/STOP		0	1	0	0	2~#14	TO PUMP
C45	SPEED FEEDBACK		0	0	1	0	SH. PR.	FROM PUMP
C45	SPEED CONTROL		0	0	0	1	SH. PR.	TO PUMP
C45	PUMP HEAD LEAK		1	0	0	0	2~#14	TO PUMP
C45	DECHLORINATION PUMP NO. 2	DECHL-C45-02						
C45	IN EXTERNAL CONTROL MODE		1	0	0	0	2~#14	FROM PUMP
C45	RUNNING		1	0	0	0	2~#14	FROM PUMP
C45	START/STOP		0	1	0	0	2~#14	TO PUMP
C45	SPEED FEEDBACK		0	0	1	0	SH. PR.	FROM PUMP
C45	SPEED CONTROL		0	0	0	1	SH. PR.	TO PUMP
C45	PUMP HEAD LEAK		1	0	0	0	2~#14	TO PUMP
C45	DECHLORINATION PUMP NO. 2	DECHL-C45-02						
C45	OPEN COMMAND		0	1	0	0	2~#14	TO VALVE ACTUATOR
C45	CLOSE COMMAND		0	1	0	0	2~#14	TO VALVE ACTUATOR
C45	OPENED		1	0	0	0	2~#14	FROM VALVE ACTUATOR
C45	CLOSED		1	0	0	0	2~#14	FROM VALVE ACTUATOR
C45	PLW Pit Flooding	LS-C45-01	1	0	0	0	2~#14	From building flood float switch located in sump pit in Filter Room
C45	TOTALS		73	14	11	6		4501

DECHLORINATION
CARRIER WATER
VALVE

MBV-C45-01



GENERAL NOTES:

- FOR GENERAL STRUCTURAL/ARCHITECTURAL NOTES SEE DRAWING 99-ASM6.03.
- ALL DIMENSIONS FOR EXISTING STRUCTURE ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS.
- GRIND TOP OF CONCRETE FOUNDATION WALL SURFACE SMOOTH AT NEW DOOR LOCATIONS TO PROVIDE THRESHOLD AS SPECIFIED.

KEY NOTES:

- INFILL OPENING TO MATCH EXISTING APPEARANCE. PROVIDE HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICALLY.
- 8" CMU NON-BEARING WALL. (99-ASM5.02)
- 6" SLAB ON GRADE WITH FIBROUS REINFORCING OVER VAPOR BARRIER AND 6" GRANULAR CUSHION.
- NEW 8" MIN. THICKNESS CONCRETE SLAB ON TOP OF EXISTING TANK BOTTOM. SLOPE TO SUMP AS SHOWN.
- FILL 6" DIAMETER OPENINGS WITH NON-SHRINK GROUT.
- TOP OF CONCRETE WALL EL. 587.83. BOTTOM OF WALL AT BASE SLAB. REINFORCE WITH TWO MATS OF #4@12" EACH WAY. ADHESIVE ANCHOR DOWEL INTO BASE SLAB AND ADJACENT WALLS WITH SINGLE ROW OF #4@12" AND LAP 2'-0". EMBED 6".
- ALUMINUM STAIRS (99-ASM5.02)
- ALUMINUM RAILING WITH TOEBOARD (99-ASM5.03)
- APPLY CHEMICAL RESISTANT COATING TO FLOOR, EQUIPMENT BASES, AND BOTTOM 6" OF WALLS IN CHLORINE ROOM. SEE SPECIFICATIONS SECTION 09 96 35.
- CONCRETE STOOP (99-ASM5.02)
- 8" CMU NON-BEARING WALL. GROUT FULL HEIGHT FOR FIRE BARRIER (99-ASM5.02)
- EXISTING CONCRETE COLUMN.
- EXISTING CONCRETE WALL.
- NOT USED.
- EQUIPMENT PAD (99-ASM5.01)
- 2'x2'x8" DEEP SUMP.
- WALL OPENING AS REQUIRED TO INSTALL FILTERS. CONTRACTOR IS RESPONSIBLE FOR SUPPORTING PLANK ROOF AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. SEE GENERAL NOTES ON DRAWING C45-D1.01.
- SAWN JOINTS @ 10" O.C. MAX (99-ASM5.01)
- PROVIDE GALVANIZED C6X13 TO REINFORCE JAMB FULL HEIGHT ADJACENT TO DOORWAY. ATTACH TO EXISTING CMU WALL @18" O.C. W/ 5/8" DIA. S.S. THREADED ROD ADHESIVE ANCHORS. EMBED 3" W/ MASONRY SCREEN TUBES.
- SLAB ON GRADE JOINT. OMIT DOWELS (99-ASM5.02)
- 8" CONCRETE SLAB ON GRADE. REINFORCE W/ #4@8" EW CENTERED IN SLAB.
- PROVIDE FITTINGS NECESSARY TO TRANSITION TO SCH 80 PVC.
- PROVIDE BLIND FLANGE.

Equipment Pad Per Detail - A-99-E5.01 Typ. each panel.

Panel Dimensions: 70"x19" including AC sidepanel

Please confirm manufacturer's recommended distance between panels.

Avoid routing PLW above panels.

Route PLW into filter piping gallery if desired.

Add Sump Pit Float and connect alarm to SCADA system. See I/O list mark-ups in CPR.

Delete this 2" D

Adjust pad height under HBT to accommodate CL elevation

HBT connection is 3" NPT; provide fittings as necessary to make this connection.

TERTIARY FILTER BUILDING PLAN

WEST SEWAGE TREATMENT PLANT IMPROVEMENTS
CITY OF CREST HILL
WILL COUNTY, ILLINOIS

JOB NO.
3894.051
PROJECT MGR.
DOMINIC GATTONE



SHEET
117
C45-ASM1.01



Date: January 24, 2024



Cost Proposal Request
West Sewage Treatment Plant Improvements
City of Crest Hill
Contract 1-2022
January 8, 2024 Revision

COST PROPOSAL NO.: 015

TO: Vissering Construction
ISSUED BY: Dominic Gattone, P.E.

DISTRIBUTION

Tony Marzetta, Project Manager	Vissering Construction (Contractor)
Blaine Kline	City of Crest Hill
Dominic Gattone, P.E.	Strand Associates, Inc.®

Please submit an itemized quotation for changes in the Contract Price and Time incidental to proposed modifications to the Contract Documents described herein.

The intent of this cost proposal request is to:

1. Modify the distance between the Structure 47 - UV Disinfection equipment and its respective control panels within the Structure E70 Dewatering and Operations Building by moving the UV System Control Panel as shown in the markups.

DESCRIPTIONS AFFECTING THE DRAWINGS

015-01 Drawing E70-E1.01 (Sheet 197)

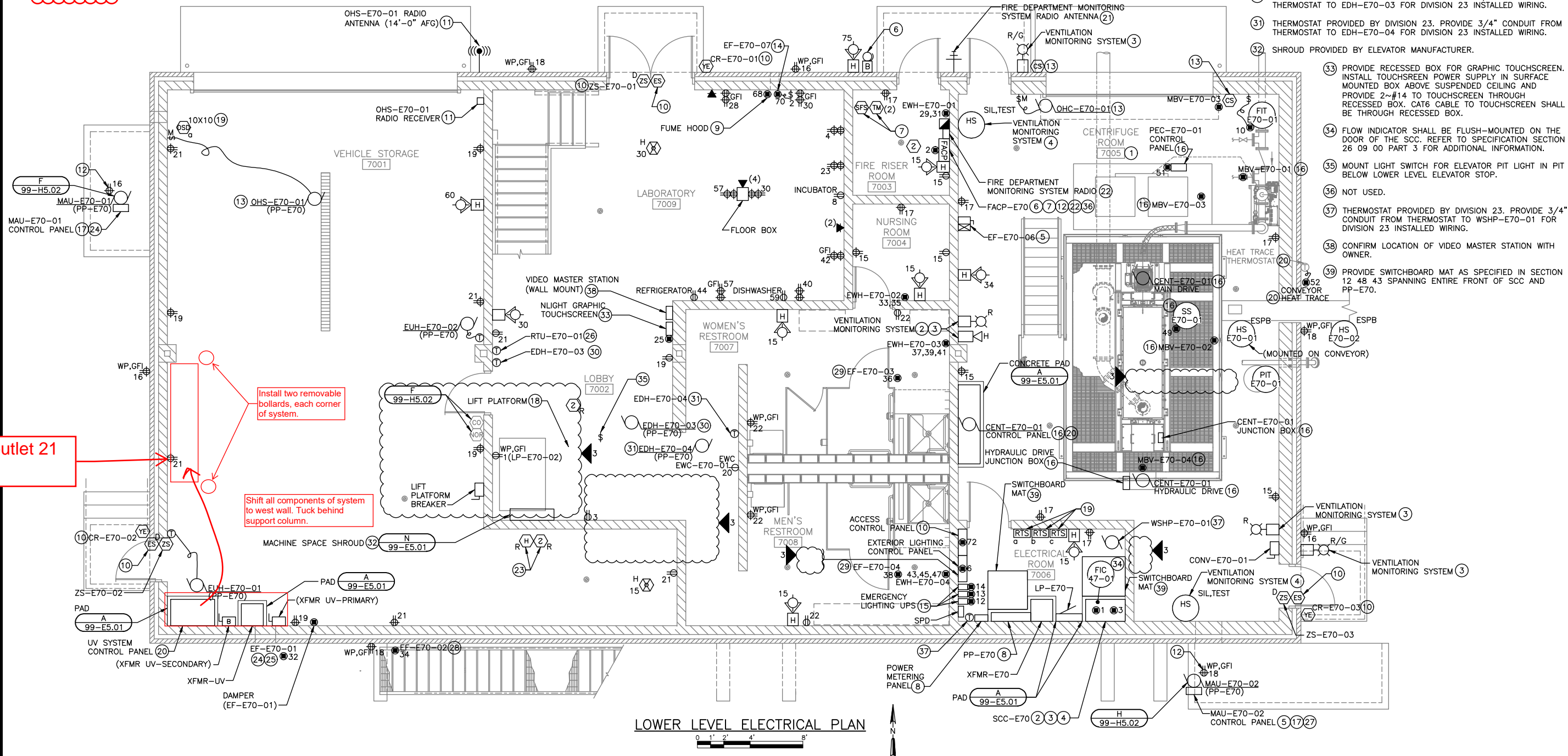
See comments on attached PDF.

1. REFER TO SPECIFICATION SECTION 26 09 90 FOR WIRING ASSOCIATED WITH THE SCADA SYSTEM.
2. SEE DRAWING E70-AS1.01 FOR LOCATIONS OF FIRE-RATED WALLS.
3. PROVIDE NAC PANELS AS REQUIRED TO POWER FAS ANNUNCIATION DEVICES. CONTRACTOR SHALL PROVIDE A DEDICATED 20A, 120V CIRCUIT BREAKER, CONDUIT, AND WIRING TO EACH NAC PANEL. PROVIDE SMOKE DETECTOR OVER ALL NAC PANEL LOCATIONS.
4. MOTOR OPERATED VALVES NOT SHOWN WITH A CIRCUIT NUMBER SHALL BE POWERED FROM SCC-E70.

- ① ALL ELECTRICAL WORK AND EQUIPMENT IN THIS ROOM SHALL BE RATED NEMA 4X. CONDUIT SHALL BE ALUMINUM AND SUPPORT MEMBERS SHALL BE STAINLESS STEEL.
- ② PROVIDE 2~#14 AND #14 GROUND IN 3/4" CONDUIT FROM HORN TO SCC-E70.
- ③ PROVIDE 2~#14 AND #14 GROUND IN 3/4" CONDUIT FROM WARNING LIGHT TO SCC-E70.
- ④ PROVIDE 4~#14 AND #14 GROUND IN 3/4" CONDUIT FROM SILENCE/TEST CONTROL STATION TO SCC-E70.
- ⑤ PROVIDE COMBINATION STARTER AS SPECIFIED IN SECTION 26 09 00. PROVIDE 2~#14 IN 3/4" CONDUIT FROM STARTER TO MAU-E70-02 TO START THE MAU WHENEVER THE FAN IS RUNNING. PROVIDE 2~#12 AND #12 GROUND IN 3/4" CONDUIT FROM STARTER TO EF-70-06 DAMPER ON ROOF.
- ⑥ SPRINKLER SYSTEM ALARM BELL PROVIDED AS SPECIFIED BY DIVISION 23 AND WIRED BY DIVISION 26. ALARM BELL SHALL BE POWERED FROM FACP-E70.
- ⑦ SPRINKLER FLOW SWITCH AND TAMPER SWITCHES PROVIDED AS SPECIFIED IN DIVISION 23 AND WIRED BY DIVISION 26. SPRINKLER FLOW SWITCH AND TAMPER SWITCHES SHALL BE MONITORED BY FACP-E70. PROVIDE REQUIRED ADDRESSABLE CONTROL MODULES AND SUPERVISORY RELAYS TO MONITOR EACH DEVICE. PROVIDE CONDUIT AND WIRING AS REQUIRED.
- ⑧ POWER METERING PANEL FURNISHED BY SECTION 26 09 00 SYSTEM SUPPLIER. PROVIDE CURRENT TRANSFORMERS IN PP-E70 TO MONITOR INCOMING FEEDER. PROVIDE WIRING AND CONDUIT BETWEEN PP-E70 AND POWER METERING PANEL AS SHOWN ON THE ONE-LINE DIAGRAM.
- ⑨ FUME HOOD RECEPTACLES, LIGHT FIXTURE, AND 2-POLE SWITCH PROVIDED AS SPECIFIED IN DIVISION 11 AND WIRED BY DIVISION 26. REFER TO SPECIFICATION SECTION 11 53 00 FOR A LISTING OF ELECTRICAL DEVICES FURNISHED WITH THE FUME HOOD.

- (10) PROVIDE A FLUSH-MOUNTED BOX ON BUILDING EXTERIOR FOR CARD READER. PROVIDE 3/4" CONDUIT FROM BOX TO ACCESS CONTROL PANEL IN THE ELECTRICAL ROOM. PROVIDE 3/4" CONDUIT FROM BOX TO DOOR FRAME FOR ELECTRIC STRIKE. WIRING SHALL BE FURNISHED AND INSTALLED BY THE SECTION 28 10 00 SYSTEM SUPPLIER.
- (11) INSTALL DIVISION 8 FURNISHED RADIO CONTROL RECEIVER ON INSIDE OF BUILDING AND PROVIDE 3/4" CONDUIT FROM RECEIVER THROUGH EXTERIOR WALL AT 14'-0" AFG WITH CGB FITTING AT EXTERIOR WALL. INSTALL DIVISION 8 FURNISHED ANTENNA ON EXTERIOR WALL AND DIVISION 8 FURNISHED ANTENNA CABLE IN CONDUIT FROM RECEIVER TO ANTENNA WITH DRIP LOOP AT ANTENNA.
- (12) RECEPTACLE PROVIDED BY DIVISION 23 AND WIRED BY DIVISION 26.
- (13) OVERHEAD GARAGE DOOR CONTROLS FURNISHED AS SPECIFIED IN DIVISION 8 AND INSTALLED AND WIRED BY DIVISION 26. REFER TO DIVISION 8 OF THE SPECIFICATIONS FOR OPERATING DESCRIPTION AND ADDITIONAL CONTROLS TO BE INSTALLED AND WIRED BY DIVISION 26. MOTOR DISCONNECT SHALL BE MOUNTED ADJACENT TO MOTOR.
- (14) LABORATORY HOOD EXHAUST FAN SHALL BE CONTROLLED BY LIGHT SWITCH. DAMPER SHALL OPEN WHEN THE FAN IS RUNNING AND SHALL CLOSE WHEN THE FAN SHUTS DOWN. PROVIDE 2-#14 IN 3/4" CONDUIT FROM LIGHT SWITCH TO RTU-E70-01 CONTROL PANEL FOR INTERLOCK WITH RTU CONTROLS.
- (15) EMERGENCY LIGHTING UPS'S SHALL BE SURFACE-MOUNTED ON THE WALL STACKED ABOVE EACH OTHER. ASSOCIATED FIXTURES SHALL BE WIRED IN SERIES THROUGH THE UPS FROM LOAD SIDE OFF THE CONTROL DEVICE. EMERGENCY CIRCUITS SHALL BE INSTALLED WITHIN DEDICATED CONDUIT AND BOXES. PROVIDE SEPARATE REFERENCE VOLTAGE CIRCUIT TO POWER THE UPS FROM THE LINE SIDE OF THE CONTROL DEVICE.
- (16) SEE DEWATERING SYSTEM CONDUIT AND WIRING SCHEDULE ON DRAWING 99-E6.15 FOR CONDUIT AND WIRING ASSOCIATED WITH DEWATERING SYSTEM EQUIPMENT AND INSTRUMENTATION.
- (17) MAU-E70-01 AND MAU-E70-02 CONTROL PANELS FURNISHED BY DIVISION 23 AND INSTALLED AND WIRED BY DIVISION 26.

- (18) ONLY ELECTRICAL WORK (I.E. POWER LIGHTING SYSTEM, AND CONDUIT) SERVING THIS AREA SHALL BE INSTALLED WITHIN THIS SPACE. ALL OTHER ELECTRICAL WORK SHALL NOT BE ROUTED THROUGH THIS SPACE.
- (19) DUCT SMOKE DETECTOR SHALL BE INSTALLED IN VERTICAL FACE OF DUCT. SAMPLING TUBE SHALL EXTEND TO OPPOSITE DUCT WALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE REQUIRED CONDUIT AND WIRING BETWEEN DUCT SMOKE DETECTOR AND REMOTE TEST SWITCH IN ELECTRICAL ROOM.
- (20) EQUIPMENT PROVIDED BY DIVISION 46 AND WIRED BY DIVISION 26.
- (21) MOUNT ANTENNA ON BUILDING EXTERIOR. PROVIDE ANTENNA CABLE IN 1" CONDUIT FROM RADIO TO ANTENNA.
- (22) PROVIDE 1" CONDUIT BETWEEN FACP AND THE WIRELESS RADIO FOR SECTION 28 46 00 PROVIDED FIRE ALARM SIGNAL WIRING.
- (23) PROVIDE ELEVATOR RECALL ADDRESSABLE CONTROL MODULE FOR MONITORING ELEVATOR RECALL SMOKE AND HEAT DETECTORS AT THE ELEVATOR CONTROL PANEL AND AT THE FACP. CONTROL MODULES SHALL BE LOCATED WITHIN 3'-0" OF ELEVATOR CONTROL PANEL.
- (24) PROVIDE 2~#12 IN 3/4" CONDUIT FROM MAU-E70-01 TO SCC-E70 TO START EF-E70-01 WHENEVER MAU-E70-01 IS RUNNING.
- (25) EXHAUST FAN POWERED THROUGH CONTACTOR IN SCC-E70. REFER TO SPECIFICATION 26 09 00 PART 3 FOR MORE INFORMATION.
- (26) THERMOSTAT PROVIDED BY DIVISION 23. PROVIDE 3/4" CONDUIT FROM THERMOSTAT TO RTU-E70-01 FOR DIVISION 23 INSTALLED WIRING.
- (27) PROVIDE 2~#12 IN 3/4" CONDUIT FROM SCC-E70 TO MAU-E70-02 TO START MAU WHENEVER EF-E70-06 IS RUNNING.
- (28) FAN SHALL RUN CONTINUOUSLY.
- (29) FAN SHALL BE POWERED THROUGH ONE POLE OF THE ROOM OCCUPANCY SENSOR SHOWN ON DRAWING E70-E1.02.
- (30) THERMOSTAT PROVIDED BY DIVISION 23. PROVIDE 3/4" CONDUIT FROM THERMOSTAT TO EDH-E70-03 FOR DIVISION 23 INSTALLED WIRING.
- (31) THERMOSTAT PROVIDED BY DIVISION 23. PROVIDE 3/4" CONDUIT FROM THERMOSTAT TO EDH-E70-04 FOR DIVISION 23 INSTALLED WIRING.
- (32) SHROUD PROVIDED BY ELEVATOR MANUFACTURER.



REVISIONS			DATE:
1	ISSUED FOR BID		5/12/2022
2	CONFORMED DRAWINGS		12/1/2022
3	CHANGE ORDER NO. 1		5/4/2023

DEWATERING AND OPERATIONS BUILDING LOWER LEVEL ELECTRICAL PLAN

WEST SEWAGE TREATMENT PLANT IMPROVEMENTS
CITY OF CREST HILL
WILL COUNTY, ILLINOIS

JOB NO.
3894.051

PROJECT MGR.
DOMINIC GATTONE



**SHEET
197
E70-E1.01**



Proposal CCN-016

January 23, 2024

Mr. Tony Marazetta
Vissering Construction
1631 Gaylord Rd.
Crest Hill, IL 60403
P: 815.673.5511
C:
Email: tmarzetta@vissering.com

Re: **Cost Proposal Request 015 – UV Disinfection control panel relocation**

Connelly Electric proposes to furnish the materials and perform the labor necessary for the completion of the above referenced project per electrical plans dated 04/13/23 and CPR-015v2 dated 01/08/2024 and as described below:

Scope of Work:

- Drawing E70-E1.01 (Sheet 197)
 - Modify the distance between the Structure 47 - UV Disinfection equipment and its respective control panels within the Structure E70 Dewatering and Operations Building by moving the UV System Control Panel as shown in the markups

Clarifications:

- Connelly Electric makes no guarantee that by relocating the control panel to this location that the factory cables provided by others will be long enough to reach the end devices

Exclusions:

- Premium time
- Liquidated Damages
- Architectural and/or engineering services
- Unforeseen conditions
- Scope gap – Only what is listed above

This proposal is based on acceptance within thirty day. All work to be performed in a neat and workmanlike manner in accordance with Connelly Electric Company Standards and our interpretation of the scope drawings and specifications. Monthly progress payments are to be made as the job proceeds. Final payment is to be made within 30 days of completion.

Base bid per Scope of Work and Exclusions above = \$1,130.00

Respectfully submitted,

Alex Szepelak

Alex Szepelak
Connelly Electric Co.

Accepted by: _____ Date: _____

Title: _____

Cost Summary Sheet

Connelly Electric
Crest Hill West Sewage Treatment Plant Improvements

CPR No.: 015

Description: UV Disinfection equipment relocation

LABOR									
	LABOR Description	Hours	Wage/Hr	Fringe/Hr	Subtotal Labor/Hr	LABOR WAGES & BENEFITS	PR Taxes & Ins/Hr	LABOR TAXES & INSURANCE	TOTAL LABOR
103	ELECTRICIAN FM ST (Local #176A) 1st SHIFT	4.84	\$ 56.68	\$ 46.01	\$ 102.69	\$ 497.02	\$ 16.70	\$ 80.82	\$ 577.84

SUBTOTAL	4.84		\$ 497.02	\$ 80.82	\$ 577.84
OH & PROFIT @ 10 & 5 % OF LABOR WAGES AND BENEFITS =			\$ 77.04	\$ 77.04	\$ 77.04
OH & PROFIT @ 10 & 5 % OF LABOR TAXES AND INSURANCE =				\$ 11.94	\$ 11.94
TOTAL LABOR					\$ 666.82

EQUIPMENT					HOURLY RATE	TOTAL EQUIPMENT
	EQUIPMENT Description	Hours				
	F150 Pickup Truck	4.84			\$ 29.02	\$ 140.46
						\$ -
						\$ -
						\$ -
TOTAL EQUIPMENT						\$ 140.46
OH & PROFIT @ 10 & 5 % OF EQUIPMENT						\$ 21.77
EQUIPMENT TOTAL						\$ 162.23

MATERIAL						UNIT RATE	TOTAL MATERIALS
	MATERIALS Description	Qty	Unit				
	General Expenses	5	HRS	Tools/Consumables		6.35	\$ 30.73
	Materials (See Attached)	1	LS	See Accubid Summary		230.16	\$ 230.16
							\$ -
SUBTOTAL							\$ 260.89
OH & PROFIT @ 10 & 5 % OF PERMANENT MATERIAL =							\$ 40.44

TOTAL MATERIAL	\$ 301.33
-----------------------	------------------

SUBCONTRACT							TOTAL SUB RATE
	SUBCONTRACT Description	Qty	Unit			UNIT RATE	
							\$ -
							\$ -
							\$ -
							\$ -
SUBTOTAL							\$ -
ADMIN MU @ 5 % =							\$ -
TOTAL SUBCONTRACT							\$ -

SUBTOTAL	\$ 1,130.38
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TOTAL PRICE Rounded	\$1,130.00
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40 S. Addison Rd.
Addison, IL 60101

CHANGE NOTICE

Connelly CCN # 16
Field Ticket # CPR-015
Project Name: Crest Hill WWTP - West Sewage Treatment Plant
Project Number: 22-0686
Page Number: 1

Client Address:

Vissering Construction

1631 Gaylord Rd.
Crest Hill, IL 60403
Telephone: 815.673.5511
Contact: Tony Marazetta

Work Description

This quote covers direct costs only and we reserve the right to claim for impact and consequential costs.
We will supply and install all materials, labor, and equipment as per your instructions on **Connelly CCN # 16**.

Description: UV Disinfection equipment relocation

Itemized Breakdown

Description	Qty	Total Mat.	Total Hrs.
3/4" GRC (GALV)	30	150.30	1.80
3/4" GRC 90 ELBOW	1	9.25	0.40
3/4" GRC STRUT CLAMP	3	4.41	0.09
#10 XHHW	20	7.79	0.15
#8 XHHW	60	39.71	1.08
P-1000 1 5/8" STRUT	3	16.95	0.36
1/4" WEDGE ANCHOR	6	1.75	0.96
Totals	123	230.16	4.84



Change Order Request #: COR007

Date: 11/2/2023
A/E Project #: JFPR No. 184-001273
VCC Project #: 11108.00

WORK DESCRIPTION
<p>RAISE BAFFLE PLATE IN EXCESS FLOW CLARIFIER BY 3 INCHES</p>

Line No	Cost Description	Labor Amt	Material Amt	Equip & Other Amt	Sub-Contractor Amt	Sub-Total
1	VISSERING CONSTRUCTION		\$ 1,400.00			\$ 1,400.00
2						\$ -
3						\$ -
4						\$ -
5						\$ -
6						\$ -
7						\$ -
8						\$ -
9						\$ -
10						\$ -
11						\$ -
12						\$ -
13						\$ -
						\$ -
						\$ -
						\$ -
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						\$ -
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -
						\$ -
Sub-Total		\$ -	\$ 1,400.00	\$ -	\$ -	\$ 1,400.00

Contractor's Net:	\$	1,400.00
Sub-Contractor's Net:	\$	-
Net Subtotal:	\$	1,400.00
n Subs, & 0% on Credits):	\$	210.00
Sub-Total:	\$	1,610.00
Bonds & Insurance - 1%:	\$	16.10
Worksheet Total:	\$	1,626.00

Contractor's Fee: (15% on Own Work, 5% on Subs, & 0% on Credits):	\$	210.00
Sub-Total:	\$	1,610.00
Bonds & Insurance - 1%:	\$	16.10

Sub-Total:	\$	1,610.00
Bonds & Insurance - 1%:	\$	16.10

Date: _____

Date: _____

Date: November 2, 2023

From: chad@mwf-frp.com
To: [Tony Marzetta](#)
Cc: [Rodney Dale](#); [Julie Eurich](#); dave@mwf-frp.com
Subject: RE: Crest Hill, WWTP FRP baffle change
Date: Thursday, November 2, 2023 10:35:46 AM

Tony,

The cost to provide (57) extension plates and (57) extra bolt, nut, & 2 f.w. with freight to the job site is \$1,400.00 and the lead time is 3 to 4 weeks. Let me know if you would like me to proceed.

Regards,

Chad Crossley



1235 S. Pioneer Road
Salt Lake City, UT 84104
P: (801) 708-7254 ext. 107
chad@mwf-frp.com

From: Tony Marzetta <tmarzetta@vissering.com>
Sent: Thursday, November 02, 2023 7:58 AM
To: chad@mwf-frp.com
Cc: [Rodney Dale](mailto:rdale@vissering.com) <rdale@vissering.com>; [Julie Eurich](mailto:jeurich@vissering.com) <jeurich@vissering.com>
Subject: Crest Hill, WWTP FRP baffle change

Hey Chad,

It was good talking with you. As we discussed, can you please get me a price and leadtime for the plates and hardware needed to raise the baffles up 3 inches? This would be for the excess flow clarifier. If you have any questions, feel free to give me a call on my cell.

Thanks,
Tony Marzetta, DE
Senior Project Manager
Vissering Construction
175 Benchmark Industrial Drive, Streator, IL 61364
T: (815) 673-5511 | F: (815) 672-0573 | C: (815) 257-5644
tmarzetta@vissering.com

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