



**A.R. CHESSON**  
**CONSTRUCTION CO., INC.**

[www.archesson.com](http://www.archesson.com)

Elizabeth City Office:  
P.O. Box 2266  
138 Rich Blvd.  
Elizabeth City, NC 27906 (27909)  
252-338-9171 Fax 252-338-9172

# Change Order Proposal

Date: Saturday, July 13, 2024 Proposal Number: **024**  
Project: Nags Head Public Works  
Reference: Wash Bay Revisions- ASI 007

**Summary:**

This proposal is for the revisions to the wash bay per the attached ASI 007. We are requesting a 30 Day no cost time extension associated with this change.

Description:	Cost:
Hatchell Concrete	\$4,961.62
RA Masonry	\$29,272.31
Precision Walls	\$4,036.00
Commercial Roofing	\$7,400.00
Osborne Welding	\$17,434.00
Villeda Drywall	\$2,874.00
East Coast Access	\$3,895.00
Chambers Ferry Construction	\$500.00
ZBZ & Associates	\$54,599.34
Mike Taylor Electrical	\$14,135.00
<hr/>	
Subtotal	\$139,107.27
OH & P – 10%	\$13,910.72
Bond Adjustment – 1.5%	\$2,295.27
 Total Change Order Proposal Cost	 \$155,313.26

Respectfully Submitted,

Daniel Plyler  
Vice President, Executive Project Manager  
A. R. Chesson Construction Company, Inc.

CC: File  
Donald Hood ARCC

**HCI CONTRACTING COMPANY  
CHANGE ORDER PROPOSAL FORM**

**Project:** Nags Head Public Works  
**Contract:** \_\_\_\_\_  
**Contractor:** Hatchell Concrete

**Proposal #:** \_\_\_\_\_  
**Project #:** \_\_\_\_\_  
**Contractor #:** \_\_\_\_\_

**Description of change:** Added Wash Equipment Building 14' x 10'  
This does not include any changes to concrete walls.

**Materials**

- |                                    |             |  |
|------------------------------------|-------------|--|
| 1. Total direct cost of materials  | \$ 1,950.00 | Concrete, rebar, stone, wire, poly       |
| 2. Overhead and profit on item one | \$ 292.50   | (15% max inc. small tools, combustibles) |
| 3. Sales tax                       | \$ 131.62   |  |
| 4. Shipping and transportation     | \$          |  |

**Materials Subtotal** \$ 2,374.12

**Labor**

- |                                     |             |  |
|-------------------------------------|-------------|--|
| 5. Total man hours: 90 @ \$25 /hr.  | \$ 2,250.00 |  |
| 6. Overhead and profit on item five | \$ 337.50   | (15% max on straight labor cost, not prem portion. O & P inc. supervisor's time) |

**Labor Subtotal** \$ 2,587.50

**TOTAL OF CHANGE ORDER PROPOSAL** \$ 4,961.62

Time Extension Request 5 days Schedule Activity # Affected \_\_\_\_\_

Contractor's signature: 

Date: 5/13/24



# REQUEST FOR CHANGE ORDER



Ref.# COR-00004  
 GC #  
 Date Apr 08, 2024  
 Job # 22-1252

**To: A.R.Chesson Construction Co,Inc**  
 PO Box 1147  
 Williamston, NC 27892  
 Phone: (252)792-4486  
**Contact: Daniel Plyler**

**Project: Nags Head Public Works**  
 2200 Lark Avenue  
 Nags Head, NC 27959

Description: Fleet Maint Bldg - Wash Equipment Bldg Roof Joists ASI #007

Labor	Total Hrs	Rate	Total
Layout-DW	0.50	46.00	\$23.00
Exterior Framing-DW	27.00	46.00	\$1,242.00
Wood Blocking Labor-DW	5.00	46.00	\$230.00
Material Handling Whse-DW	5.00	46.00	\$230.00
Clean-up-DW	2.00	46.00	\$92.00
Supervision	10.00	62.00	\$620.00
<b>Total Labor</b>			<b>\$2,437.00</b>

Material	Size	Quantity UOM	Unit Price	Total
METAL FRAMING HEAVY	-	1.00 EA	688.8788 EA	\$688.88
WOOD PRODUCTS	-	1.00 EA	108.48 EA	\$108.48
FASTENERS	PCS	1.00 EA	22.99 PCS	\$22.99
<b>Total Material</b>				<b>\$820.35</b>

**Subtotal for Detail \$3,257.35**

Miscellaneous	Total
Travel Expense-DW	\$195.00
<b>Total Miscellaneous Charges</b>	<b>\$195.00</b>

Adjustments	Total
<b>Total Adjustments</b>	<b>-\$0.24</b>

**Notes: Scope:**

- Install 2x8 Pressure Treated Wood fastened to top of CMU using Anchors in Bond Beam provided by others.
- Install 6" Joists 16ga at 16"o.c. with 6" Track 16ga at perimeter.
- Install Simpson Strong Tie H3 Clips with #10-16 screws at each joist with 8d nails at top plate.

**Exclusions: permits/fees, bond, flashing/caulking, nights/weekends/overtime, Engineering/Shop Drawings,Wood or Metal Blocking, Rigid Insulation at CMU/Brick veneer locations, Batt Insulation above ceilings, Air Barrier, Waterproofing, and Exterior Hollow Metal Frame installation, Sealing of penetrations at all walls specifically excluded.**

- a. Prices firm for 7 days and based on current job conditions
- b. Contract time extension of: 2 days
- c. Material delivery time of: 1 Weeks
- d. We will not proceed with this work without a written Change Order

Adjustments Total:	-\$0.24	
Sub Total:	\$3,452.11	
Sales Tax on Materials:	\$57.42	7.00%
OH&P (Labor,Material & Equipment):	\$526.47	15.00%
<b>Total:</b>	<b>\$4,036.00</b>	

David Lane Walker  
 Project Manager

104 Staton Court , Greenville, North Carolina, 27834-9016

T:(252)355-1059 Fax:



**Commercial**  
**ROOFING, INC.**

shingle roof systems  
flat roof systems  
metal roof systems  
roof coating systems

610 industry drive • hampton, virginia 23661 • telephone (757) 380-6100 • virginia beach (757) 486-3030 • fax (757) 825-2214

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## **Budget Pricing**

June 24, 2024

AR Chesson Construction Company  
PO Box 2266  
Elizabeth City, North Caroline 27906

Re: NHPW-Equipment Building  
Wash Station Flat roof area  
Project # OCA 21059

Attn: Michael

We propose to supply all labor, material, and equipment needed to Install Membrane Roofing on the small washroom flat roof at the above referenced project as follows: See Detail 5 on A5.1

### **Washroom only roof area**

- Install a flat layer of 1.5" poly iso insulation, add a complete ¼" per foot tapered board system over the entire roof area, and mechanically attach White Thermoplastic membrane.
- Fabricate and install new perimeter edge flashings using White .032 Aluminum.
- Flash the roof penetrations as per manufacturers details.

**The total cost for the above referenced work is: \$6,250.00.**

**The above work Exclusions:** providing or installing all wood blocking required around the perimeter edge; Fascia wood, Gutters are not shown on plans.

**Alternate#1-** Install white 6" seamless gutters and 2 downspouts (3"x4") around this roof area.  
**The cost will be \$1,150.00.**

Respectfully Submitted,  
**COMMERCIAL ROOFING, INC.**  
David Townsend, President



# OSBORNE WELDING INC.

# 9 BEECHWOOD COURT  
P.O. BOX 3576  
PORTSMOUTH, VA 23701  
PH (757) 487-0900  
FX (757) 487-0152

April 10, 2024

Re: NHPW Wash Station  
Nags Head, NC

Gentlemen,

We propose to furnish and/or install the items listed below

1. Steel columns
2. Column anchor bolts
3. Steel beam
4. Steel roof deck
5. Erection of items: 1, 3 & 4
6. Shop drawings
7. Galvanizing
8. Sales tax

**Total: \$ 17,434.00**

- Notes:
1. Our price is firm for 14 calendar days.
  2. Engineering shall be the responsibility of the engineer of record.
  3. All changes or additions to the contract documents will be incorporated into our work but the costs will be added to our contract before we can proceed with this work.
  4. Price based on drawings A1.1 and A5.1 dated 3/19/2024.

We exclude the following items.

Pipe support bracket, bolts for other trades, grout & grouting, light gage metal framing, field touch up painting, testing & inspections, engineering, design calculations, any item not listed above.

Yours truly,

W. Keith Osborne

**VILLEDA DRYWALL**

553 Rustic Lane  
Greenville, NC 27834  
Phone – 252-413-8588

6-25-24

**Nags Head Add Wash Building- Change Order 3**

Change Order for additional labor & material to paint added rails.

Blocking & Trim Material=	\$1,124
Blocking & Trim Labor=	\$ 600
Painting Material=	\$ 175
Painting Labor=	\$ 600
15% OHP	\$ 375
Total	\$2,874

Signature: ***Faustino Villeda***

Date: 6-25-24



**East Coast Access, LLC**  
Powered by RedTeam

# FIXED PRICE CHANGE PROPOSAL

04/09/2024

Daniel Plyler  
A.R. Chesson Construction Co. INC  
315 W Main St  
Williamston, NC 27892

**Re:** Our Change Proposal J1589-05 for **Door 300 Add**

**Project:** Nags Head Public Works

A.R. Chesson Construction Co. INC

Nags Head Public Works, 2200 Lark Ave, Nags Head, NC 27959

This Proposal is for the Change referenced above and more particularly defined by the Scope of Work comprised of this Proposal, its Attachments, and other Contract Documents incorporated by reference. Therefore, we propose to change the following:

- (1) - HMF
- (1) - HMD
- (1) - HW SET 5

**Price:** **\$ 3,895.00** *Three Thousand Eight Hundred Ninety Five Dollars and Zero Cents*

**Time:** The duration of the Work to achieve Substantial Completion will be **UNCHANGED**.

**Clarification(s):** - 6.75% Dare County Sales Tax Included

**Expiration:** This Proposal shall remain open for 30 calendar day(s).

Please contact me at (252) 689-6307 or via e-mail [chris@eastcoastaccessllc.com](mailto:chris@eastcoastaccessllc.com) if you have any questions or require additional information.

Regards,

**East Coast Access, LLC**

Chris Wallace

Project Manager

## ACCEPTANCE OF PROPOSAL

The Scope of Work described above supersedes any and all prior communication about this Change.

Customer Signature: \_\_\_\_\_ Date: \_\_\_\_\_

A.R. Chesson Construction Co. INC

# ESTIMATE

**Chambers Ferry Construction,  
LLC**  
704 Chambers Ferry Road  
Edenton, NC 27932

chambersferryconstruction@gmail.co  
m  
(252)548-2662



## Daniel Plyler

**Bill to**

Daniel Plyler  
A. R. Chesson  
138 Rich Blvd  
Elizabeth City, N C 27909

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### Estimate details

Estimate no.: 1222  
Estimate date: 04/08/2024

#	Date	Product or service	Description	Qty	Rate	Amount
1.		<b>Doors and Hardware</b>	set 1 door frame and hardware in new wash station building ASI 007	1	\$500.00	\$500.00
					<b>Total</b>	<b>\$500.00</b>

# Z B Z & Associates, Inc.

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*Mechanical Contractors*

557 Central Drive, Suite 102 Virginia Beach, VA. 23454-5249  
(757) 463-5331 Fax: (757) 463-4814

June 27, 2024

A.R Chesson Construction CO. Inc,  
PO Box 2266  
138 rich blvd  
Elizabeth City, NC 27906

Re: Nags Head Public Works Bldg.  
ZBZ CO P-08A

Attn:

Gentlemen:

The purpose of this letter is to forward our associated cost for the above referenced project. This change order is in referenced to the ASI **REVISED** DRAWINGS 007.

We trust that the above is satisfactory and if we can be of further assistance in this matter please do not hesitate to contact our office.

**Z B Z & Associates, Inc.**

George Webster  
Project Manager

E-Mailed: X  
Cc. CZ, DS @ ZBZ

Exclusions: No Concrete cutting, No Masonry, No Metal cutting, patching, painting, power wiring, & sprinkler

Time Extension: 45 days

# Z B Z & ASSOCIATES, INC.

CHANGE ORDER NO. P-08A

PROJECT: NAGS HEAD PUBLIC WORKS FLEET BLDG

DESCRIPTION: WASH DOWN ROOM ASI 007

Material and Rental Equipment	\$	3,485.93
<u>7.00%</u> Sales Tax	\$	244.02
<b>SUB TOTAL</b>	<b>\$</b>	<b>3,729.95</b>
Labor	\$	1,990.00
<u>38%</u> Tax and Insurance	\$	756.20
<b>SUB TOTAL</b>	<b>\$</b>	<b>2,746.20</b>
<b>Total Labor and Material</b>	<b>\$</b>	<b>6,476.15</b>
<u>15%</u> Overhead and Profit on ZBZ only	\$	971.42
<b>SUB TOTAL</b>	<b>\$</b>	<b>7,447.57</b>
Sub-Contractors (See Attached)	\$	41,892.00
<u>10%</u> Overhead and Profit on sub only	\$	4,189.20
<b>SUB TOTAL</b>	<b>\$</b>	<b>46,081.20</b>
<b>Total Z B Z's and Sub-Contractor's</b>	<b>\$</b>	<b>53,528.77</b>
<u>2.0000%</u> Bond Premium	\$	1,070.58
<b>TOTAL COST OF CHANGE ORDER</b>	<b>\$</b>	<b>54,599.34</b>

We request a 10 day time extension, after approval, to perform the work associated with this changed condition.

**Exclusions: No cutting, No Footing alteration exterior metal cutting, cleaning, caulking of any k patching, painting, power wiring, sprinkler, concrete, sheetrock, framing, ceiling removal, or replacement. Price valid for 30 days.**

BREAKDOWN ESTIMATE OF DIRECT COSTS

CONTRACT: NAGS HEAD PUBLIC WORKS BLDG

ZBZ & ASSOCIATES, INC.

ITEM NO.	ITEM OF WORK	NO. OF UNITS	MATERIAL		LABOR		EQU. DAYS	EQUIPMENT	
			UNIT COST	TOTAL COSTS	UNIT COST	TOTAL COST		RATE	TOTAL COSTS
1	PLUMBING FIXTURE ITEMS	1	\$ 985.93	\$ 985.93		\$ -			\$ -
2	WATER PIPING MATERIALS	1	\$ 1,600.00	\$ 1,600.00		\$ -			\$ -
3	GAS PIPING MATERIAL	1	\$ 750.00	\$ 750.00		\$ -			\$ -
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19	superintendent	8			65.00	\$ 520.00			\$ -
20	mechanic	14			45.00	\$ 630.00			\$ -
21	apprentice	14			35.00	\$ 490.00			\$ -
22	labor	8			25.00	\$ 200.00			\$ -
23	Pickup & delivery	1	150.00	\$ 150.00	150.00	\$ 150.00			\$ -
24									
25									
<b>TOTAL THIS PAGE:</b>				\$ 3,485.93		\$ 1,990.00			\$ -

The Canada Company  
 2620 Elmhurst Lane  
 Portsmouth, Virginia 23702

CHANGE PROPOSAL SUMMARY

PRICE NOT SUBJECT TO NEGOTIATION. WORK NOT PERFORMED WITHOUT WRITTEN AUTHORIZATION.

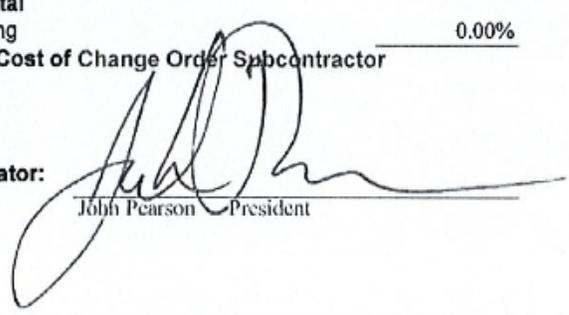
Project: Nags Head Public Works Date: April 10, 2024

Project No. 2000

Description: Provide Labor and Materials to install the changes to the drawings per ASI-7  
\*\*Roof Boots / Flashing by others\*\*  
\*\*Masonry Rework by others.\*\* \*\*Quickship is not included. Standard 6-8 lead time.\*\*

1 Direct Materials			30,702	
2 Sales Tax on Materials	7.00%	of line 1	2,149	
3 Direct Labor			1,600	
4 Labor Burden	42.00%	of line 3	672	
5 Rental Equipment			0	
6 Sub-Subcontractor Work			0	
7 <b>Subtotal</b>				35,123
8 Subcontractor's Field Overhead	0.00%		0	
9 <b>Subtotal</b>				35,123
10 Sub-Subcontractor's Overhead	10.00%	of line 9	3,512	
11 Subcontractor's Profit	5.00%	of line 9	1,756	
12 <b>Subtotal</b>				40,391
13 Bonding	0.00%			0
14 <b>Total Cost of Change Order Subcontractor</b>				<b>40,391</b>

Estimator:



John Pearson President



**OLD DOMINION INSULATION, INC.**  
1620 Centerville Turnpike, Suite 126  
Virginia Beach, VA 23464  
(757) 424-7149

**CHANGE ORDER REQUEST #2**

To: George Webster  
Company: ZBZ & Associates  
Project: Town Of Nags Head - Public Works New Buildings  
Date: 4/9/2024

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**Description:**

Our proposal is based on supplying the necessary management, labor, and materials to install insulation as described herein, and as requested by George Webster via email on the date of 4-1-24.

**Scope:**

Insulate additional domestic cold water

**Price:**

\$825

Brandon Hickman

*Brandon Hickman*

Project Manager – Virginia Beach



# PROPOSAL

1100 Cavalier Boulevard  
Chesapeake, VA 23323  
(757) 558-0200 Phone  
(757) 558-9715 Facsimile  
(800) 768-4257 Toll Free  
[www.damuth.com](http://www.damuth.com)

**Customer**  
ZBZ & Associates

**Date**  
April 9, 2024

**Project Name**  
Nags Head Public Works – Wash Station

**Tag Data - Electric Heater (Qty: 1)**

Item	Tag(s)	Qty	Description	Model Number
A1	UH-3	1	Electric Wall Heater	HF3316TRP

**Product Data - Electric Heater**

Item: A1 Qty: 1 Tag(s): UH-3  
Electric Wall Heater  
3 kW Unit Size  
208/60/1  
Disconnect  
Thermostat  
Surface Mounting Frame (Fld)

**Notes:**

1. All Accessories Must Be Field Installed By ZBZ & Associates.
2. Not Included: Controls Wiring, Startup / Checkout / 1<sup>st</sup> Year Labor Warranty & Installation.

**Total Net Price for Items As Described Above ..... \$ 631.00 +tax**  
(includes freight)

Prices quoted are FIRM.

If estimates, Damuth Trane reserves the right to revise this quote as the work progresses and we acquire knowledge not available at the time of quote. Customer will be advised at that time of any change and before work progresses.

Authorized  
Signature \_\_\_\_\_

**ERIC JONES**  
**SALES ENGINEER**

ACCEPTANCE OF PROPOSAL – The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified.

Signature \_\_\_\_\_

P.O. # \_\_\_\_\_

Date of Acceptance \_\_\_\_\_

See attached terms and conditions of sale upon which this proposal is based.



The Canada Company  
 2620 Elmhurst Lane  
 Portsmouth, Virginia 23701

Project: Nags Head Public Works  
 Change Order Proposal  
 ASI-07

Change Order Detail

Item	Description	Amount	unit	Material Unit Cost	Material Total Cost	Labor Unit Cost	Labor Total Cost	Equipment Rental
1	Louver and Sleeve assembly	1	pc	\$2,250.00	\$2,250	\$400.00	\$400	
2	Flue Vent ( Submittals Attached ) Hangers & Supports	1	vents	\$28,452.00	\$28,452	\$900.00	\$900	
3	Lift Rental	1	week		\$0		\$0	\$1,000.00
4	Travel time & Per Diem	4	Man Days		\$0	\$75.00	\$300	
5	Truck ( 1.50 per mile )	300	miles		\$0		\$0	\$450.00
6					\$0		\$0	
7					\$0		\$0	
8					\$0		\$0	
9					\$0		\$0	
10					\$0		\$0	
	<b>Totals</b>				<b>\$30,702</b>		<b>\$1,600</b>	

**Mike Taylor Electric Company Inc.**

164 FACTORY STREET  
Williamston, NC 27892

---

Phone (252) 792-2942  
CELL (252) 809-3441  
Email mtelectricco@earthlink.net  
Date 04/20/24

REQUEST FOR CHANGE ORDER E-05

AR CHESSON  
Attention : Daniel Plyler  
Job : NHPW – fleet maintenance (Shop Building truck wash)

DESCRIPTION

- Install Panel B in Equipment Room
- Install light, emergency light, receptacle
- Install 4 disconnects for equipment and run power to each
- Install 2 conduits, wire underground to push button pedestal

Material

- |  |          |
|--|----------|
| - (2) 3 pole, 50 amp, QOB breakers   | 800.00   |
| - (1) 40 amp, (1) 20 amp 2 pole breaker  | 150.00   |
| - (2) 60 amp, heavy duty disconnect  | 900.00   |
| - (1) 6' light and emergency light   | 600.00   |
| - Misc, conduit, wire for pedestal, air compressor,<br>Pressure washers, unit heater, Lts and rec. | 3,800.00 |

<u>Labor</u> 50.00 per man hour x 120 hours	6,000.00
Mini excavator rent	600.00
	<hr/>
	1,285.00
10% profit and overhead	1,285.00
	<hr/>
	14,135.00

Total change order (add) \$14,135.00

Not included

- Items on contactor diagram 2 E1.6 on sheet E1.6 top left hand corner  
Assume all of this is supplied by equipment supplier

Thanks,

Mike Taylor



## Architects Supplemental Instruction (ASI): # 007

To: Daniel Plyler  
AR Chesson

Date: 3-19-24

Project NHPW – Equipment Building

Project #: OCA 21059

:

### REFERENCED MATERIAL:

- Bulletin Drawing(s): \_\_\_\_\_
- RFI(s): \_\_\_\_\_
- GC Request for Change Proposal: \_\_\_\_\_
- Email: \_\_\_\_\_
- Drawings: A1.1, A5.1, P1.4, M1.2, E1.6, E2.2
- Specifications: \_\_\_\_\_

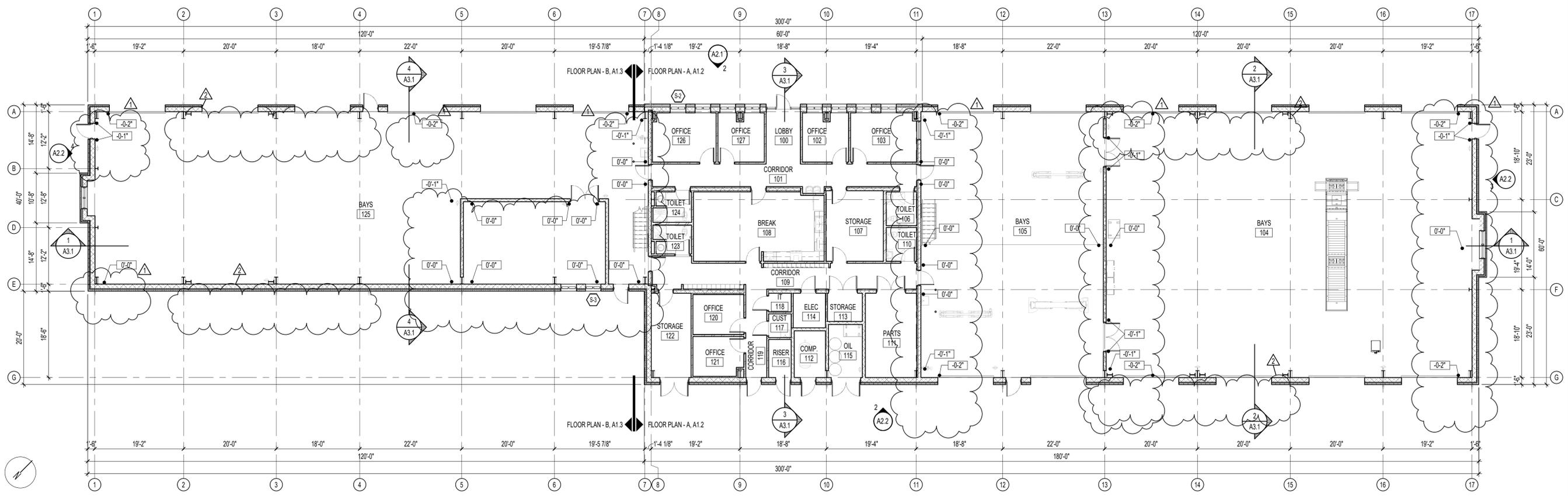
### ● Description of Work:

The attached plan sheets include revisions for addition of a Wash Equipment building. Revisions are clouded and tagged.

Submit pricing to incorporate the following and work shown on attached plan sheets into the scope/contract of the project.

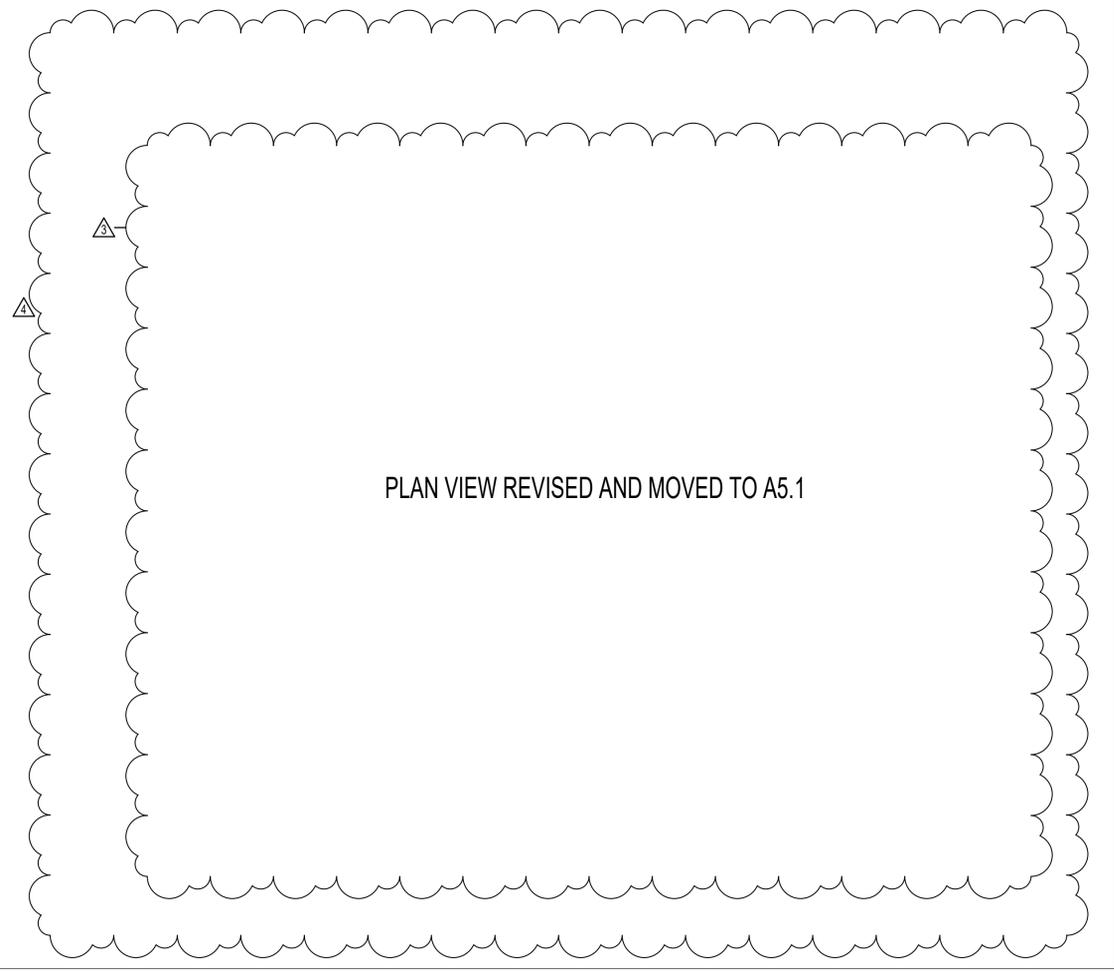
1. Sheet A1.1 – Revision date 3/19/24:
  - a. Deleted plan detail 1/A1.1. Moved to sheet A5.1.
2. Sheet A5.1 – New Sheet - date 3/19/24:
  - a. Revised wash station plan:
    - i. Added spot elevations.
    - ii. Added details for wash equipment components.
    - iii. Clarified wash station details.
  - b. Added rinse arch details and components.
  - c. Added wash station wall and footing details.
  - d. Added wash equipment building.
    - i. Located wash equipment.
  - e. Added wash equipment building section and elevations.

3. Sheet P1.4 – New sheet - date 3/19/24:
  - a. Added wash bay gas and water plans, fixture schedule, and notes for wash equipment.
4. Sheet M1.2 - New sheet - date 3/19/24:
  - a. Added wash bay mechanical plan, schedule, and notes for equipment.
5. Sheet E1.6 - New sheet - date 3/19/24:
  - a. Added wash bay electrical plan, power, diagram, and notes for equipment.
6. Sheet E2.2 - Revision date 3/19/24:
  - a. Revised Panel schedule B.



**OVERALL PLAN**

3/32" = 1'-0"



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GENERAL NOTE:  
 Prior to construction start, Contractor shall verify & be responsible for all Dimensions.

- ▲ 10-24-22 ADDENDUM 3 FLOOR SLOPE ELEVATIONS
- ▲ 05/19/23 - PEMB
- ▲ 9/22/23 - CANOPY COLUMNS
- ▲ 3/19/24 - WASH EQUIP BLDG

Date	Project No.
3/19/24	<b>21059</b>
Drawn By	Sheet No.
JH	<b>A1.1</b>
Checked By	
TDO	
Sheet Title	
OVERALL FLOOR PLAN	





GENERAL NOTE:  
Prior to construction start, Contractor shall verify & be responsible for all Dimensions.

Revisions	Description	Date
△	INT. VENT	12/08/23
△	PIT LIFT	03/11/23
△	WASH BLDG	03/19/24
△	UNIT HEATER	04/03/24
△	DELETE CS-2	05/17/24

Date	Project No.
09/29/22	21059
Drawn By	Sheet No.
JAD	P1.4
Checked By	
JBD	

Sheet Title  
PLUMBING  
WASH EQUIPMENT  
BUILDING

### PLUMBING FIXTURE SCHEDULE

SYMBOL / IMAGE	DESCRIPTION	3 - EQUALS				PIPING CONNECTIONS				
		MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER
H-3 	HOSE BIBB	WOODFORD	24	MFAB	M4Y-9000-NFB	ZURN	195XL	3/4"	-	-

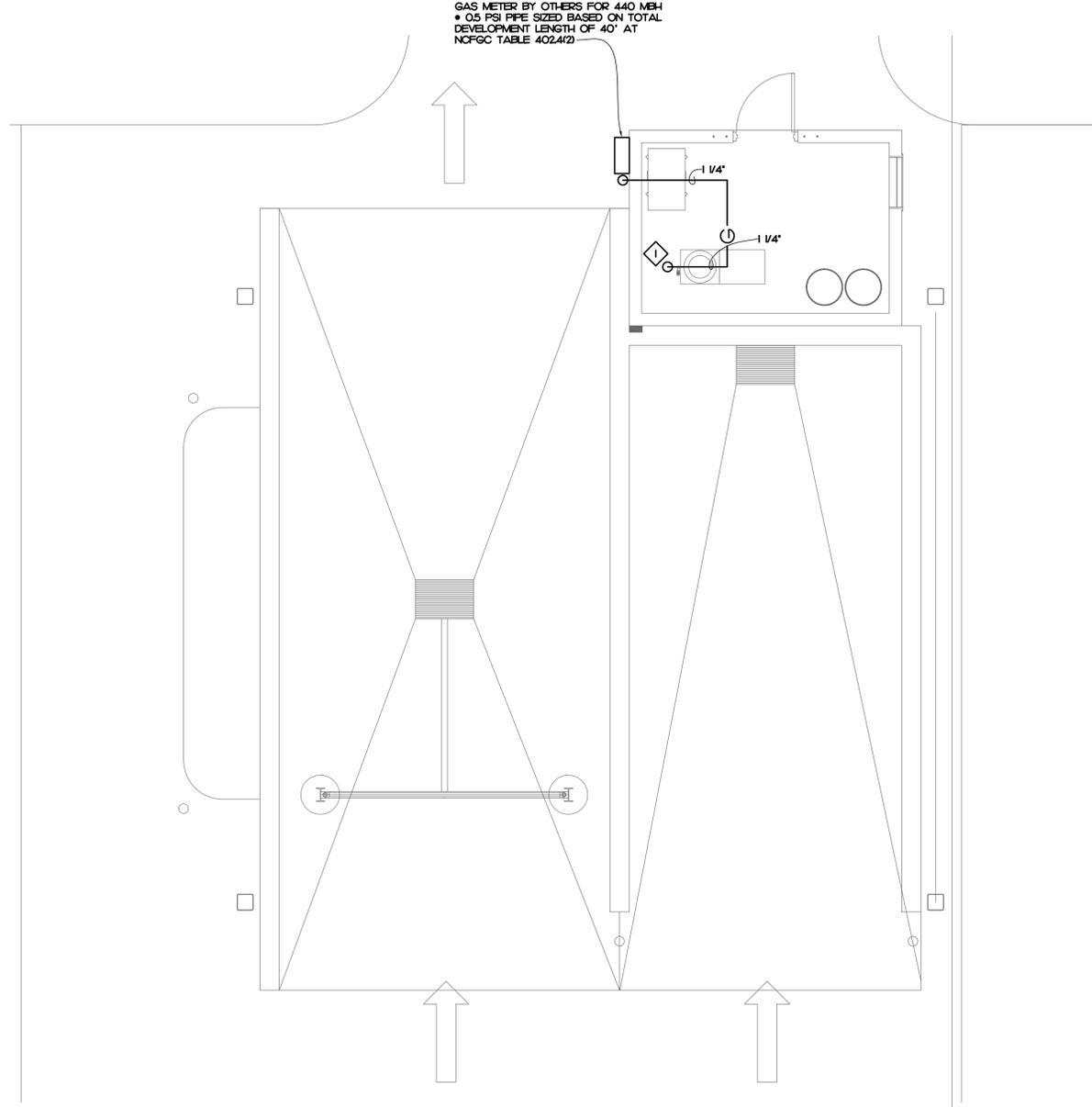
PLUMBING SCHEDULE NOTES AND LEGEND:

1. THE PLUMBING CONTRACTOR MAY SUBSTITUTE FIXTURES WITH OWNERS' APPROVAL.
  2. SUBMIT CUT SHEETS FOR ALL PROPOSED FIXTURES TO ARCHITECT PRIOR TO BIDDING.
  3. PROVIDE VACUUM BREAKER ON ALL EQUIPMENT REQUIRING PLUMBING.
  4. REFER TO MANUFACTURERS WEB SITE FOR CUT SHEETS AND DATA ON THE FIXTURES AND APPURTENANCES USED IN THIS SCHEDULE.
-  ADA COMPLIANT  
 ELECTRICAL POWER

### PLUMBING KEY NOTES

1. MAKE CONNECTION TO EQUIPMENT AS REQUIRED, EQUIPMENT BY OTHERS.

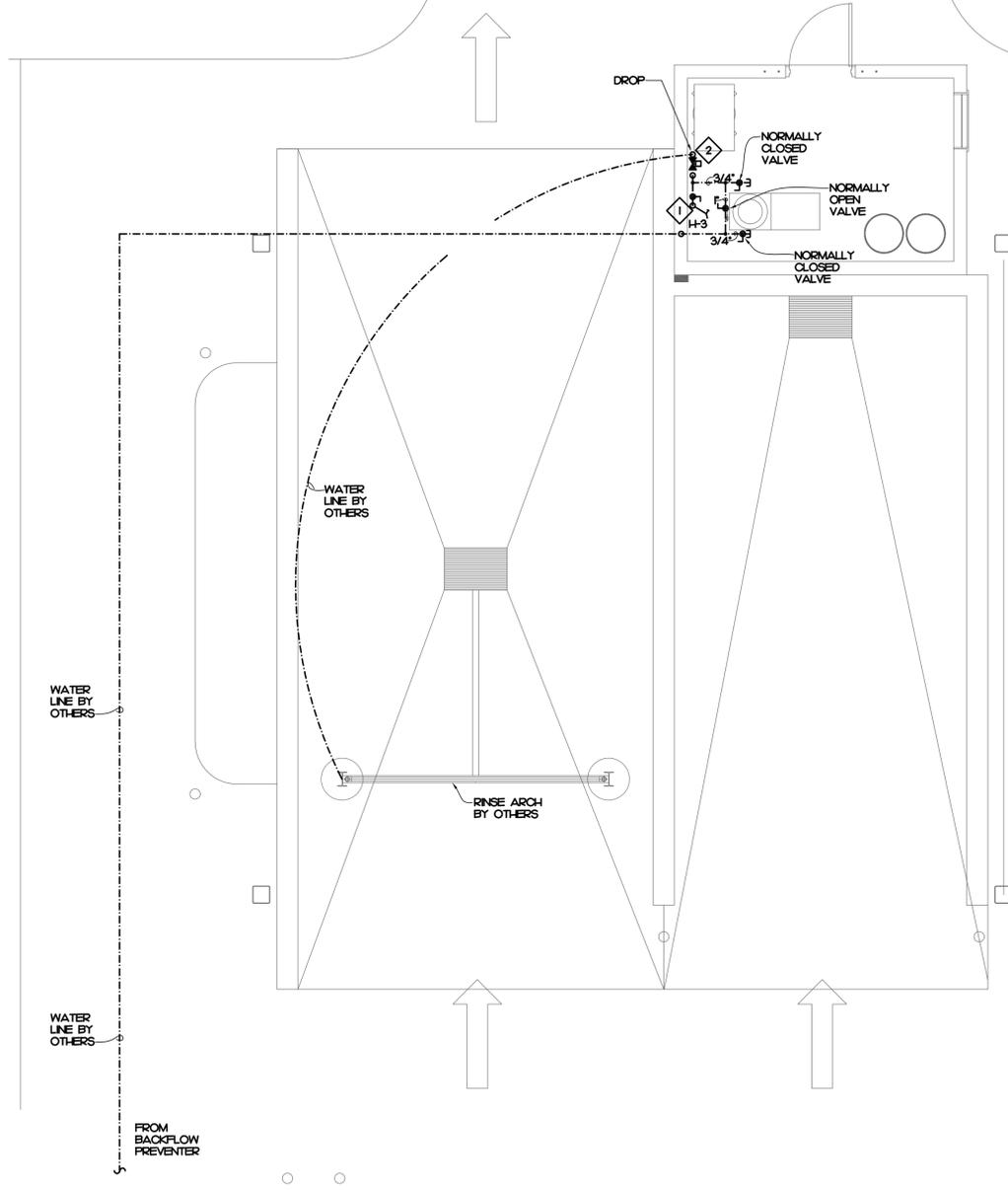
GAS METER BY OTHERS FOR 440 MBH  
• 0.5 PSI PIPE SIZED BASED ON TOTAL  
DEVELOPMENT LENGTH OF 40' AT  
NCGC TABLE 402.412



**2 PLUMBING PLAN - WASH BAY - GAS**  
P1.4 SCALE: 1/4" = 1'-0"

### PLUMBING KEY NOTES

1. MAKE CONNECTION TO EQUIPMENT AS REQUIRED, EQUIPMENT BY OTHERS.
2. 2" STAINLESS STEEL SOLENOID VALVE AND WATER HAMMER ARRESTOR, MOUNT ON WALL 12" ABOVE FINISHED FLOOR, 120/A. COORDINATE LOCATION WITH OTHER TRADES.



**1 PLUMBING PLAN - WASH BAY - WATER**  
P1.4 SCALE: 1/4" = 1'-0"

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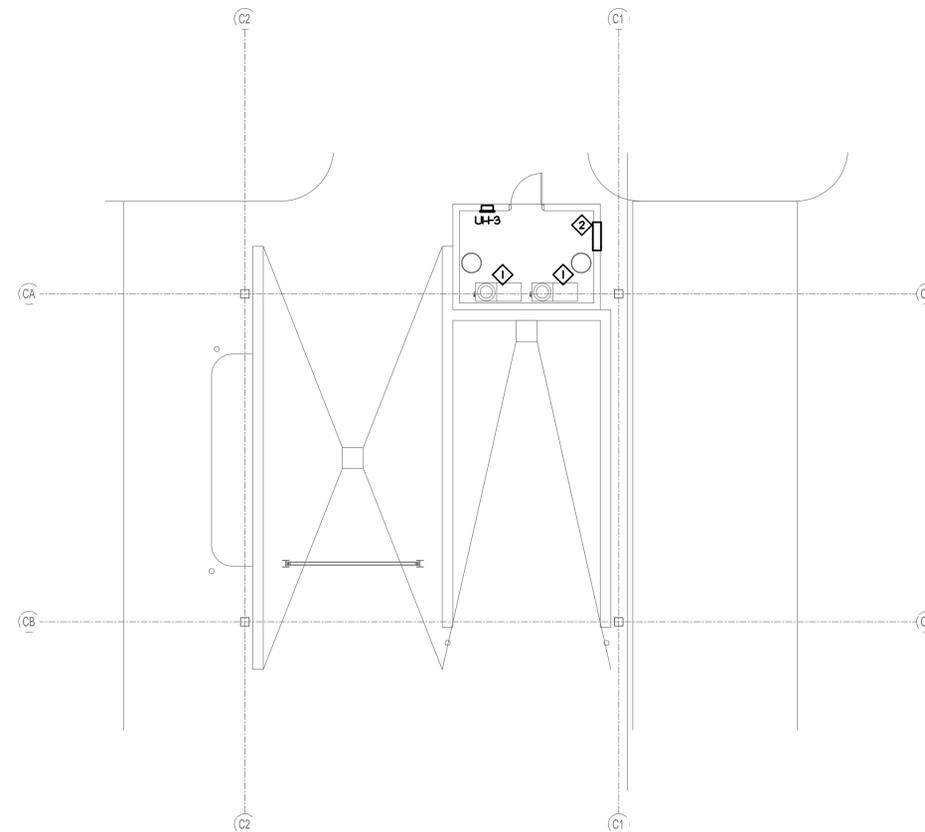
### ELECTRIC UNIT HEATER SCHEDULE

MARK	BASIS OF DESIGN	LOCATION	CFM	CAPACITY (BTU)	ELECTRICAL			NOTES
					(A)	(B)	(C)	
UH-3	QMARK CWH-B404F	UTILITY	100	10,236	14.5	3.0	208/1	F-3

- NOTES:
1. PROVIDE WITH POWER DISCONNECT.
  2. PROVIDE WITH INTEGRAL THERMOSTAT.
  3. PROVIDE WITH SURFACE MOUNTING KIT.

### MECHANICAL KEY NOTES

- ◇ 10" DOUBLE WALLED STACK WITH BACK DRAFT DIVERTER AND CAP. MAKE CONNECTION TO UNIT AS REQUIRED. MECHANICAL CONTRACTOR TO PROVIDE SUPPORTS FOR THE FLUE VENTS. ANCHOR FLUES TO WALL WITH WALL BRACKET AND CANOPY WITH GUT WIRES. INSTALL IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
- ◇ GREENHECK ESD-635-32X56 32X56" DRAINABLE BLADE LOUVER. MOUNT AT 12" ABOVE FINISHED FLOOR.



**1 MECHANICAL PLAN - WASH BAY**  
**M5.1 SCALE: 1/8" = 1'-0"**

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**ATLANTEC**  
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 322 BLUE RIDGE ROAD  
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 22037

NEW FACILITY FOR:  
**TOWN OF NAGS HEAD - PUBLIC WORKS**  
**FLEET MAINTENANCE SHOP BUILDING**  
 S LARK AVENUE  
 NAGS HEAD, NORTH CAROLINA

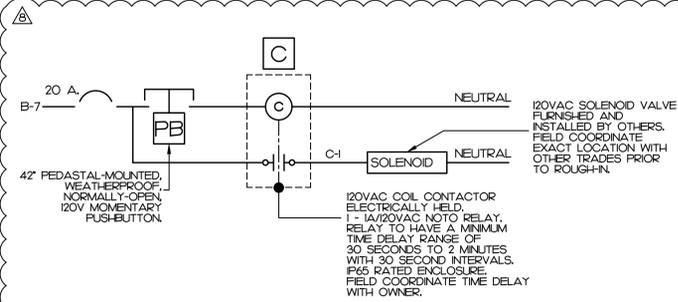


GENERAL NOTE:  
 Prior to construction start, Contractor shall verify & be responsible for all Dimensions.

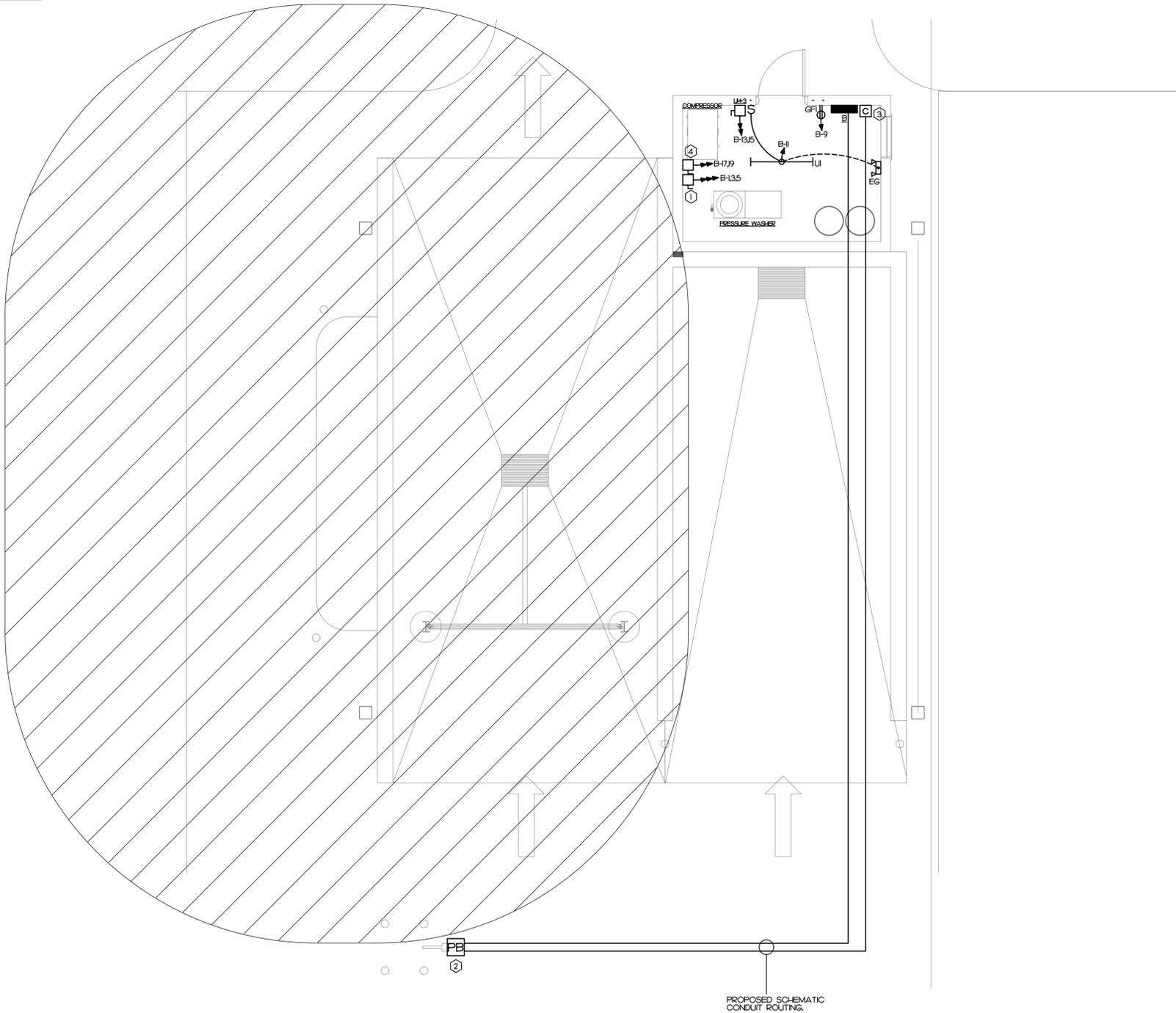
Revisions	Description	Date
△	REVIEW	02/20/23
△	PEMB	05/22/23
△	INT. VENT	12/08/23
△	PIT LIFT	03/11/23
△	WASH BLDG	03/19/24

Date	Project No.
09/28/22	<b>21059</b>
Drawn By	Sheet No.
NGB	<b>M1.2</b>
Checked By	
PJM	

Sheet Title:  
**MECHANICAL WASH EQUIPMENT BUILDING**



**2 CONTACTOR DIAGRAM**  
E1.6 NOT TO SCALE



**1 WASH DOWN ELECTRICAL PLAN**  
E1.6 SCALE 1/4" = 1'-0"

**KEY NOTES**

- ① FIELD COORDINATE EXACT DISCONNECT LOCATION WITH OWNER, ARCHITECT, AND EQUIPMENT SUPPLIER. MAINTAIN APPROPRIATE CLEARANCES FOR ALL EQUIPMENT. FUSE PER EQUIPMENT NAMEPLATE DATA.
- ② FIELD COORDINATE EXACT LOCATION OF PEDESTAL PUSH-BUTTON WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN. SEE A15 FOR CONTROLLER LOCATION. ENSURE PEDESTAL IS INSTALLED OUTSIDE OF THE HAZARDOUS AREA.
- ③ SEE 2/E16 FOR DETAILS.
- ④ FIELD COORDINATE EXACT DISCONNECT LOCATION WITH OTHER TRADES PRIOR TO ROUGH-IN. FUSE PER EQUIPMENT NAMEPLATE DATA.

**RINSE ARCH SEQUENCE OF OPERATIONS**

1. UPON PUSH BUTTON PRESS, THE CONTACTOR COIL SHALL BE ENERGIZED, CLOSING THE NOTO RELAY AND ACTUATING THE SOLENOID VALVE TO ALLOW WATER FLOW FROM THE RINSE ARCH.
2. UPON PUSH BUTTON RELEASE, THE TIME DELAY OF THE NOTO RELAY SHALL BEGIN. THE NOTO RELAY SHALL HAVE A MINIMUM TIME DELAY RANGE OF 30 SECONDS TO 2 MINUTES WITH MINIMUM 30 SECOND INTERVALS.
3. ONCE THE TIME DELAY ON THE NOTO RELAY HAS EXPIRED, THE RELAY SHALL OPEN AND DISENGAGE THE SOLENOID VALVE, STOPPING WATER FLOW FROM THE RINSE ARCH.
4. PUSH BUTTON, RELAY, AND SOLENOID VALVE SHALL ALL FAIL OPEN.

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22037

NEW FACILITY FOR:  
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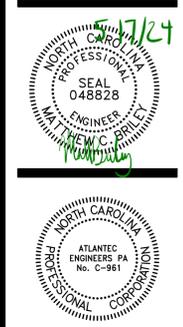
GENERAL NOTE:  
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Revisions	Description	Date
△	INT. VENT	12/08/23
△	PIT LIFT	03/11/23
△	WASH BLDG	03/19/24
△	UNIT HEATER	04/03/24
△	DELETE CS-2	05/17/24

Date: 09/29/22 Project No: **21059**

Drawn By: MCB Sheet No:  
Checked By: MCB **E1.6**

Sheet Title:  
**WASH DOWN ELECTRICAL PLANS**



ATLANTEC ENGINEERS, PA  
No. C-961

GENERAL NOTE:  
Prior to construction start, Contractor shall verify & be responsible for all Dimensions.

Revisions	Description	Date
INT.	VENT	12/08/23
PIT	LIFT	03/11/23
WASH	BLDG	03/19/24
UNIT	HEATER	04/03/24
DELETE	CS-2	05/17/24

Date: 09/29/22  
Project No: 21059  
Drawn By: MCB  
Checked By: MCB  
Sheet No: E2.2  
Sheet Title: PANEL SCHEDULES

**PANEL F1** 120/208V, 3 PHASE, 4 WIRE

OKT	DESCRIPTION	KVA	C	G	W	CB	OKT	OKT	CB	W	G	C	KVA	DESCRIPTION	OKT	
1	FC-21	0.3	1/2	12	12	15	1	2	50	8	10	3/4	4.2	NOTE 2	WELDER OUTLET	2
3		0.3	--	--	--	--	3	4	2P	8	--	--	4.2			4
5	FC-22	0.3	1/2	12	12	15	5	6	50	8	10	3/4	4.2	NOTE 2	WELDER OUTLET	6
7		0.3	--	--	--	--	7	8	2P	8	--	--	4.2			8
9	FC-23	0.6	1/2	12	12	15	9	10	50	8	10	3/4	0.0	NOTE 2	WELDER OUTLET	10
11		0.6	--	--	--	--	11	12	2P	8	--	--	0.0			12
13	FC-24	0.6	1/2	12	12	15	13	14	50	8	10	3/4	0.0	NOTE 2	WELDER OUTLET	14
15		0.6	--	--	--	--	15	16	2P	8	--	--	0.0			16
17	TGMS CONTROL PANEL	0.5	1/2	12	12	20	17	18	50	8	10	3/4	0.0	NOTE 2	WELDER OUTLET	18
19	TGMS CONTROL PANEL	0.5	1/2	12	12	20	19	20	2P	8	--	--	0.0			20
21	MOTORIZED DAMPERS	0.2	1/2	12	12	15	21	22	50	8	10	3/4	0.0	NOTE 2	WELDER OUTLET	22
23	EF-3	2.9	3/4	10	10	30	23	24	2P	8	--	--	0.0			24
25	EF-3	2.9	3/4	10	10	30	25	26	50	8	10	3/4	0.0	NOTE 2	WELDER OUTLET	26
27	EF-4	2.9	3/4	10	10	30	27	28	2P	8	--	--	0.0			28
29	EF-6	0.9	1/2	12	12	20	29	30	50	8	10	3/4	0.0	NOTE 2	WELDER OUTLET	30
31	BIG ASS FAN	1.9	1/2	12	12	20	31	32	2P	8	--	--	0.0			32
33	BIG ASS FAN	1.9	1/2	12	12	20	33	34	50	8	10	3/4	0.0	NOTE 2	WELDER OUTLET	34
35	BIG ASS FAN	1.9	1/2	12	12	20	35	36	2P	8	--	--	0.0			36
37	20K # LIFT	1.8	1/2	12	12	20	37	38	50	8	10	3/4	0.0	NOTE 2	WELDER OUTLET	38
39		1.8	--	--	--	--	39	40	2P	8	--	--	0.0			40
41	20K # LIFT	1.8	3/4	10	10	30	41	42	50	8	10	3/4	0.0	NOTE 2	WELDER OUTLET	42
43		1.8	--	--	--	--	43	44	2P	8	--	--	0.0			44
45	20K # LIFT	1.8	--	--	--	--	45	46	2P	12	12	1/2	0.2			46
47		1.8	3/4	10	10	30	47	48	2P	12	12	1/2	0.2			48
49		1.8	--	--	--	--	49	50	2P	12	12	1/2	0.2			50
51	VEX CONTROL PANEL	0.5	1/2	12	12	20	51	52	2P	12	12	1/2	0.2			52
53	VEX CONTROL PANEL	0.5	1/2	12	12	20	53	54	2P	--	--	--	0.0			54

DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA	200 A MINIMUM BUS SIZE	SURFACE MOUNTING
CONT. LOAD	0.0	125%	0.0	200 A MAIN CIRCUIT BREAKER	NEMA 1 ENCLOSURE
RECEPTACLE	0.36	100%/50%	0.36	10 K MINIMUM AIC RATING	GROUND BAR
MTRS/COOLS	2.36	100%	2.36		
HEATS	3.00	100%	3.00		
WATER HEATER EQUIPMENT	0.00	100%	0.00	NOTES	CONNECTED LOADS
KITCHEN EQUIP.	0.00	65%	0.00	1. SQUARE D # NO	PHASE A1 9.7 KVA
SPECIAL EQ.	0.00	100%	0.00	2. E.C. TO PROVIDE GFCI BREAKER.	PHASE B1 9.7 KVA
25% OF LARGEST HVAC/MOTOR	4.81		4.81		PHASE C1 9.7 KVA
TOTAL DEMAND			4.81		TOTAL 29.8 KVA
					DEMAND 88 AMP

**PANEL D** 120/208V, 3 PHASE, 4 WIRE

OKT	DESCRIPTION	KVA	C	G	W	CB	OKT	OKT	CB	W	G	C	KVA	DESCRIPTION	OKT
1	FC-1	0.3	1/2	12	12	15	1	2	50	8	10	3/4	4.0		2
3		0.3	--	--	--	--	3	4	2P	8	--	--	4.0		4
5	FC-12	0.4	1/2	12	12	15	5	6	--	8	--	--	4.0		6
7		0.4	--	--	--	--	7	8	40	8	10	3/4	3.0	COMPRESSOR	8
9	FC-13	0.5	1/2	12	12	15	9	10	2P	8	--	--	3.0		10
11		0.6	--	--	--	--	11	12	--	8	--	--	3.0		12
13	FC-14	0.1	1/2	12	12	15	13	14	--	--	--	--	0.0	SPACE ONLY	14
15		0.1	--	--	--	--	15	16	--	--	--	--	0.0	SPACE ONLY	16
17	HP-3, FC-3	0.9	1/2	12	12	15	17	18	--	--	--	--	0.0	SPACE ONLY	18
19		0.4	--	--	--	--	19	20	--	--	--	--	0.0	SPACE ONLY	20
21	QA-1	0.3	1/2	12	12	15	21	22	--	--	--	--	0.0	SPACE ONLY	22
23		0.3	--	--	--	--	23	24	--	--	--	--	0.0	SPACE ONLY	24
25	BB-1	0.1	1/2	12	12	15	25	26	--	--	--	--	0.0	SPACE ONLY	26
27		0.1	--	--	--	--	27	28	--	--	--	--	0.0	SPACE ONLY	28
29	BB-2	0.1	1/2	12	12	15	29	30	--	--	--	--	0.0	SPACE ONLY	30
31		0.1	--	--	--	--	31	32	--	--	--	--	0.0	SPACE ONLY	32
33	LH-2	1.5	1/2	12	12	20	33	34	--	--	--	--	0.0	SPACE ONLY	34
35	IBAS PANEL	0.5	1/2	12	12	20	35	36	--	--	--	--	0.0	SPACE ONLY	36
37	CONDENSATE PUMPS 200	0.8	1/2	12	12	20	37	38	--	--	--	--	0.0	SPACE ONLY	38
39	SPACE ONLY	0.0	--	--	--	--	39	40	--	--	--	--	0.0	SPACE ONLY	40
41	SPACE ONLY	0.0	--	--	--	--	41	42	--	--	--	--	0.0	SPACE ONLY	42
43	SPACE ONLY	0.0	--	--	--	--	43	44	--	--	--	--	0.0	SPACE ONLY	44
45	SPACE ONLY	0.0	--	--	--	--	45	46	--	--	--	--	0.0	SPACE ONLY	46
47	SPACE ONLY	0.0	--	--	--	--	47	48	--	--	--	--	0.0	SPACE ONLY	48
49	SPARE	0.0	--	--	--	--	49	50	20	--	--	--	0.0	SPARE	50
51	SPARE	0.0	--	--	--	--	51	52	20	--	--	--	0.0	SPARE	52
53	SPARE	0.0	--	--	--	--	53	54	20	--	--	--	0.0	SPARE	54

DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA	200 A MINIMUM BUS SIZE	SURFACE MOUNTING
CONT. LOAD	0.00	125%	0.00	200 A MAIN CIRCUIT BREAKER	NEMA 1 ENCLOSURE
RECEPTACLE	0.00	100%/50%	0.00	10 K MINIMUM AIC RATING	GROUND BAR
MTRS/COOLS	8.49	100%	8.49		
HEATS	1.50	100%	1.50		
WATER HEATER EQUIPMENT	0.00	100%	0.00	NOTES	CONNECTED LOADS
KITCHEN EQUIP.	0.00	65%	0.00	1. SQUARE D # NO	PHASE A1 9.7 KVA
SPECIAL EQ.	0.00	100%	0.00	2. E.C. TO PROVIDE GFCI BREAKER.	PHASE B1 9.7 KVA
25% OF LARGEST HVAC/MOTOR	2.28		2.28		PHASE C1 9.7 KVA
TOTAL DEMAND			3.77		TOTAL 29.8 KVA
					DEMAND 88 AMP

**PANEL B** 120/208V, 3 PHASE, 4 WIRE

OKT	DESCRIPTION	KVA	C	G	W	CB	OKT	OKT	CB	W	G	C	KVA	DESCRIPTION	OKT
1	PRESSURE WASHER	4.2	3/4	10	10	30	1	2	40	8	10	1	3.3	EV CHARGER	2
3		4.2	--	--	--	--	3	4	2P	8	--	--	3.3		4
5		4.2	--	--	--	--	5	6	40	8	10	1	3.3	EV CHARGER	6
7	RINSE ARCH CTRL	0.5	1/2	12	12	20	7	8	2P	8	--	--	3.3		8
9	SERVICE REC	0.4	1/2	12	12	20	9	10	20	8	10	1	1.2	SITE GATE	10
11	WASH-DOWN BLDG LTS	0.1	1/2	12	12	20	11	12	20	6	10	1	1.2	SITE GATE	12
13	LH-3	1.5	1/2	12	12	20	13	14	--	--	--	--	0.0	SPACE ONLY	14
15		1.5	--	--	--	--	15	16	--	--	--	--	0.0	SPACE ONLY	16
17	AIR COMPRESSOR	3.2	3/4	10	10	30	17	18	--	--	--	--	0.0	SPACE ONLY	18
19		3.2	--	--	--	--	19	20	--	--	--	--	0.0	SPACE ONLY	20
21	SPACE ONLY	0.0	--	--	--	--	21	22	--	--	--	--	0.0	SPACE ONLY	22
23	SPACE ONLY	0.0	--	--	--	--	23	24	--	--	--	--	0.0	SPACE ONLY	24
25	SPACE ONLY	0.0	--	--	--	--	25	26	--	--	--	--	0.0	SPACE ONLY	26
27	SPACE ONLY	0.0	--	--	--	--	27	28	--	--	--	--	0.0	SPACE ONLY	28
29	SPACE ONLY	0.0	--	--	--	--	29	30	--	--	--	--	0.0	SPACE ONLY	30
31	SPACE ONLY	0.0	--	--	--	--	31	32	--	--	--	--	0.0	SPACE ONLY	32
33	SPACE ONLY	0.0	--	--	--	--	33	34	--	--	--	--	0.0	SPACE ONLY	34
35	SPACE ONLY	0.0	--	--	--	--	35	36	--	--	--	--	0.0	SPACE ONLY	36
37	SPACE ONLY	0.0	--	--	--	--	37	38	--	--	--	--	0.0	SPACE ONLY	38
39	SPACE ONLY	0.0	--	--	--	--	39	40							