

Invitation to Bid: Construction Fire Station

49 Addendum 11

November 21, 2025

This is a cumulative response for architectural, structural, mechanical, electrical, plumbing and fire protection RFI's submitted to date.

Any revisions noted below will be incorporated into the plan set before permit application.

NCFCRD Station #49 Precon RFI

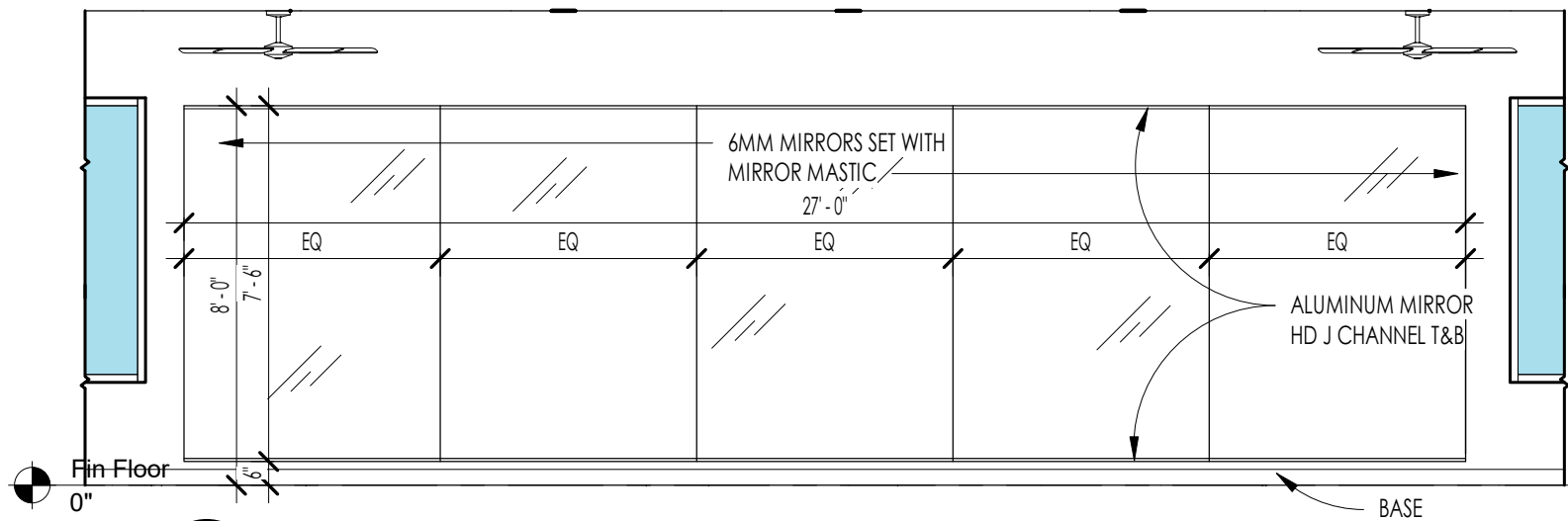
1. The interior elevation call out SS " Solid Surface" for shelves in several areas, and it seems there are stainless steel shelves in other areas. Can you please specify where the stainless steel shelves are located to avoid a confusion? Example, RM XXX Stainless Steel, or Solid Surface.
 - **See Interior Elevations for details, Summary:**
 - **Break Room 152- Corian**
 - **Bath 1 136- Corian**
 - **Bath 2 130- Corian**
 - **Bath 3- Corian**
 - **Kitchen 109-Stainless Steel**
 - **EMS 548-Stainless Steel**
 - **Conf Room 102-Corian**
 - **Work Room 143-Butcher Block**
 - **Gear Cleaning 144-Stainless Steel**
 - **Reporting 104-Corian**
2. On A0.00 under Roofing, the plans call for 1.5" Standing Seam Aluminum .032" x 16" but .032" panels are only 15" coverage. Please advise.
 - **Seam Spacing is 16"**
 - **Panel Sizes per Miami Dade NOA or Florida Product approval shall govern**
3. Architectural drawings illustrate showers with recesses however structural drawings S3.0 do not show depressions. Please clarify if showers should have depressions.
 - **All showers shall be recessed. ADA Showers shall be recessed 2" minimum, non ADA showers shall be recessed 4" minimum.**
 - a. **4" recessed showers, (4) Total- Bath 1, Bath 2 bath 3 Bath 4.**
 - b. **2" recessed showers, (4) Total- Shower (by Open Office), Transition Room, RR-4.**
4. Please provide location for the 40A connection to the 6-Gear Washer as shown in Panel P2A. No location shown on Prints.
 - **6-Gear Washer is shown on sheet E1.4 in the Gear Cleaning room.**
5. Please provide location for the 60A lift station as shown in Panel S. No location shown on Prints.
 - **See Electrical Site plan, sheet E1.5**
6. What is the purpose of the USB connection at the TV locations?
 - **See Previous RFI Responses**
7. Are they expecting to run a USB cable from each TV location to the IT closet Homerun?

- Given that USB has a maximum recommended distance of 5meters, do they want an additional CAT6 run for future USB extenders?
- **The USB outlets at those locations are for power supply only.**
8. A6.2 references the countertop material as being Corian Neutral Beige but this is not a color that Corian offers any longer. Can an alternative material or color be specified?
 - **Neutral Concrete is an acceptable alternative material.**
 9. Please provide clarification on who is to supply and install the cold plunge tub.
 - **See Previous RFI Responses**
 10. Please provide clarification on who is to supply and install the shop compressor in the truck bay outside mechanical room 142.
 - **See Previous RFI Responses**
 11. Will there be any compressed airlines needed in the truck bay areas, if so, please provide these locations as none are shown on the plans.
 - **See Previous RFI Responses**
 12. Please advise if any acceptable substitutions are allowed for the overhead doors.
 - **See Previous RFI Responses**
 13. Door type "F" is shown on sheet A6.1 but is not listed on the door schedule. Please provide the sizes and locations of door type "F".
 - **See Previous RFI Responses**
 14. Does the owner have a preferred camera and access control system manufacturer? (if so, does it need to integrate with another fire station or is 49 its own station independent of others).
 - **Altronix - Access Power Controller w/ power supply/charger Model # AL600ULACM**
 - **Linear - E3 eMerge Access Control System Model #E#-EXN4M**
 15. Do they want speakers for music throughout or will they rely on the Motorola paging system most stations have installed by Motorola?
 - **No Speakers Needed**
 16. Will they need a VOIP telephone system quoted (we can quote multiple through national vendors like Comcast, Ring Central, 3CX etc. or is the city installing)?
 - **VOIP quote is not needed**
 17. Glass is called out as to be 1-5/16" clear with Low E coating but glazing detail 2 on A6.2 calls out for SHGC - 0.24 and U-value - 0.21, this glass makeup will not meet these performance values. Can you confirm that the SHGC and U-Value listed in these drawings are correct for this project? If so, we will have to either add a tint to the glass or possibly a second low-E coating to meet those values.
 - **Final and exact U value and SHGC shall be provided by glass supplier.**
 18. Please provide a list of any acceptable alternatives for the storefront system.
 - **There are no allowable alternatives at this time**
 19. Addendum 5 reflects Camera Locations only requires cable installation?
 - **Correct, cable installation only**
 20. Is the camera head end equipment going to be located in the IT rack?
 - **Yes.**
 21. Could you not find any details for the IT room layout in the electrical drawings, please provide.
 - **There are 4 dedicated quad receptacles shown on the plan in the IT room. IT equipment by the District.**
 22. I could not find any information on the requirements for this fuel pod in any drawings. Based on the overall weight being 25,000 lbs, and a "ConVault E500" tank I am assuming they are wanting a 500-gallon ConVault tank. It looks like there may be a fuel dispenser right next to the AST Tank. Please provide more information on this line item.
 - **See the specifications provided by manufacturer, The E500 tank is a 2 chamber double wall system, 500 gallons per chamber. Note that the tank assembly includes from the manufacturer:**
 - **Neoprene pads,**

- **Fill Rite FR700V 115v AC 20 GPM pump,**
 - **Morrison Brothers 918 clock gauge alarm**
 - **Morrison Brothers 724 leak indicator**
23. Also, it appears that there are glass shower doors at baths 1,2,3. Please confirm, no tags, not on door schedule.
- **The Shower doors will not be on the door schedule. Shower door and panel system consists of:**
 - i. **3/8" tempered glass**
 - ii. **30" x 80" doors**
 - iii. **CRL GENS3CH Polished Chrome Geneva Shower Pull and Hinge Set or appr equal.**
 - **This information has been added to the drawing set.**
24. Please provide specifications/manufacturer for the glass door type "H". It's currently listed as "TBD", more information is needed to price these.
- **A specific manufacturer for the glass is not needed as long as it meets the requirements of the plans.**
25. Please provide more details on doors: 034, 035, 055, 056. All 4 of these doors are located within the Glass wall system, which also does not appear to have any specifications or manufacturers.
- **A specific manufacturer for the glass is not needed as long as it meets the requirements of the plans.**
26. Can an interior elevation of the glass wall system located in office 148 and conf room 147 be provided?
- **See attached elevation. The plan set shall be revised.**
27. Please provide an interior elevation of the mirror in exercise room 111.
- **See attached elevation. The plan set shall be revised.**
28. Please confirm if a cost-loaded schedule is required for this project.
- **Please refer to the Bid Form and Amended Agreement.**
29. Is a waterproof membrane required at the showers?
- **Yes, See plans regarding Schluter System**
30. Vestibule 1 and Vestibule 2 are called out on the finish schedule to receive epoxy floors, but on the Floor Plan- Slab on sheet A2.4, it is showing tile on both. Please clarify which flooring finish these locations are supposed to receive.
- **Those areas are to receive tile. The plan set shall be revised.**
31. Elec/Mech 140 & Stor. 2 141 are called out on the finish schedule to receive epoxy floors, but on the Floor Plan- Slab on sheet A2.4, it is showing concrete with no epoxy. Please clarify which flooring finish these locations are supposed to receive.
- **Those areas are to receive epoxy finish. The plan set shall be revised.**
32. Mech 4 125 is called out on the finish schedule to receive epoxy floors, but on the Floor Plan- Slab on sheet A2.4, it is showing tile. Please clarify which flooring finish this location is supposed to receive.
- **Mech 4 to receive an epoxy finish. Also note that Laundry Rm 124 Shall receive a tile finish. The plan set shall be revised.**
 -
33. Will concrete pads be required for the new floor mounted vertical air handler units?
- **See civil engineering plans for concrete flatwork locations.**
34. Will a concrete pad be required for the new compressor in the apparatus bay?
- **The compressor shall sit on the concrete floor of the Apparatus bay.**
35. There is a 3-compartment sink labeled KS-1 on the plumbing plans that is not scheduled on the fixture schedule. Please provide specification information.
- **Elkay model #RNSF83724**
36. There is an eyewash in the apparatus bay shown in plan that is not scheduled on the fixture schedule. Please provide specification information.
- **See Previous RFI Responses**
37. Please provide specifications information for the wall cleanout & two-way cleanouts on the plumbing drawings.

- **See attached.**
38. Plumbing notes call for new water piping to be in pex, copper or CPVC. Please clarify what type of piping is to be used for new domestic water piping on the project.
 - **PEX with Copper subouts.**
 39. Please provide specifications for washing machine valve boxes.
 - **See attached.**
 40. Structural drawings do not have a column height indicated, can this information be added?
 - **Refer to the beam schedule and column reinforcement typical detail to determine where these columns' top elevations are. All column vertical steel shall be extended up to the top of beam.**
 41. Can sections of the millwork be provided?
 - **There are no additional millwork details provided at this time.**
 42. Please clarify the tile type that will be used in the shower floors, sheet A6.2 states to use Tile-2, which is listed as wall tile.
 - **See Previous RFI Responses**
 43. 35. Please provide additional on the fuel systems. Is card access/fuel monitoring system required, Is there a veeder root system?
 - **No Veeder Root system needed. The card access/ fuel monitoring shall be addressed after a bidding.**
 44. What type of ductwork is required ant the kitchen hood? Stainless steel? Black iron? Please advise.
 - **Please see the attached specification edit. (Stainless steel 16 Gauge)**
 45. Please provide information on testing and balancing requirements HVAC systems.
 - **Please see the attached Testing and Balancing Specification section H,1 with edits.**
 46. Please provide duct material requirements for the project note 1 section c under supply and return ductwork calls for duct board in the same section line item 3 calls for galvanized sheet metal.
 - **Please see the attached Specification edit.**
 47. Please clarify who is responsible for the lockers in transition room 107, as addendum 7 stated gear bunker lockers are by owner. Does this apply to transition room 107 as well?
 - **The "Spacesaver Storage Solutions" Personal Storage Locker 2 Tier Single Door Mesh shall be provided by Builder.**
 48. Please advise who is to supply and install the tv's, as no mention of these items is noted on the plans.
 - **The District will supply TV's**
 49. On the interior elevation sheets A6.3 & A6.4, only 3 restroom accessories are listed. However, more than 3 are shown. Please provide more details for the grab bars, framed mirrors, hooks, and shower curtains/rods.
 - **Cabinet Vanity Mirror-Bradley 781-030360 (30 x 36) @ (4)**
 - **Hanging Lav Mirror-Bradley 781-018300 (18 x 30) @ (4)**
 - **Grab Bars-Bobrick B-5806 x 48: 48" or appr Equal**
 - **Hooks-Bobrick B-211 Heavy-Duty Restroom Clothes Hook or appr equal**
 - **Shower Curtain-Bobrick B-204 series, w/ Bobrick B-6107 series rod or appr equal**
 50. Please confirm if "Kewaunee Scientific Corporation Steel Casework" is an acceptable alternative to the listed "JW Metals Stainless Supply". (See attached specification sheet).
 - **This is an acceptable alternative.**
 51. Will an electrical site plan be issued? Nothing is shown for power the lift station, Irrigation System, Etc.
 - **Electrical site plan added in previous RFI. Lift station now located on electrical site plan. Irrigation electrical information has yet to be determined.**
 52. Who is responsible for the low voltage systems on the project? The low voltage plan note #3 E2.1 call the drawing to be diagrammatic to depict device locations and conduit runs./ Low voltage drawings will be under separate permit. The scope of work is unclear.
 - **The low voltage plan shown on the electrical drawings is for reference only. The low voltage design will be handled by others under the coordination of the District. Wiring runs by Contractor,**

53. Will grounding bars, ladder racks, or server racks be required in the IT room?
- **IT equipment shall be provided by District**
54. Please provide specifications for the new cameras if they are to be provided by the GC.
- **Cameras are not provided by the contractor.**
55. Will the emergency access gate to Tarpon Cove require card access?
- **No**
56. Please locate 2" empty conduit run for fiber service installation on site plan or provide linear footage to assume so we can accurately price the conduit run.
- **See Previous RFI Responses**
57. Please clarify the specifications for the under-cabinet lighting reference on sheet A6.2 detail 1 (Open office elevation #1).
- **The fixture H can be used in all under counter lighting such as in the kitchen, office break room, and EMS storage. See revised sheets E1.2 & E1.3. The plan set shall be revised.**
58. Advise what type of grass should be placed on the emergency egress location.
- **St. Augustine grass should be placed at the emergency egress location; remain consistent with landscape plans.**
59. Please provide the extent of the existing sidewalk demolition.
- **Sidewalk demolition extents have been clarified. See attachment. The plan set shall be revised.**
60. Please provide scale to civil sheet 06.
- **1"=20'-0"**
61. Please provide section/details for the drainage flumes.
- **See attached detail for flumes. The plan set shall be revised.**
62. Civil sheet 06 of 13, indicates a 6" HDPE pipe going into the courtyard from the driving lane, however; the plumbing indicates a 3" pipe. Please advise which one governs.
- **The 6" HDPE governs. Civil tied in roof drains from the plumbing set, requiring the larger pipe.**
63. The Erosion control plan indicates a BMP 1.06 for the silt fence, but the detail is not indicated in the plans. Please provide BMP 1.06.
- **There are two details provided for BMP 1.06 on Sheet 08 of the plan set.**
64. Sheet A0.00, indicates to engage a "accredited registered waterproofing consultant" to review and approve all waterproofing products designated herein. Please advise if its needed to be included in the estimate.
- **Yes**
65. Please indicate the height of the stainless-steel wall panels in the kitchen. Are these to be full height or terminated at the top of the wall cabinets?
- **Terminate at top of wall cabinets, extent to ceiling at range.**
66. Please provide more information on if and where the flag pole(s) will be located.
- **See A1.1 for flag pole location and previous RFI Responses**
67. On the section legend from architectural plans note 33 states to applied Tremco Paraseal to filled side of stem wall. Please advise which stem walls will receive waterproofing.
- **This note is no longer applicable and has been removed from the set.**
68. Per detail #6,9 and 11 in sheet A8.3 the system to be used is the Kerdi liner on floors and kerdi board on walls and shower bench, please clarify where the Schluter Ditra is intended to be used
- **Ditra is not applicable and shall be removed from the plans. Note that an anticrack/uncoupling membrane is to be applied at all tile areas.**



9

A6.5

Exercise Room Mirror Wall

1/4" = 1'-0"

1

REMOVE EX. SIDEWALK &
REPLACE NEW TO DRIVEWAY
& ADA MAT (TYP.)

+ 9.64

SDP-PL20220006236
KINSALE GOLF COURSE

DS-4
Type C
GRATE = 7.80'
INV.=4.50' E

DS-3
Type C
GRATE = 7.80'
INV.=6.00' S
INV.=4.50' W

9.03

+ 9.16

+ 9.12

+ 9.06

9.16

9.10

9.00

9.10

9.16

9.16

9.10

9.08

9.41

40' OF 24" RCP

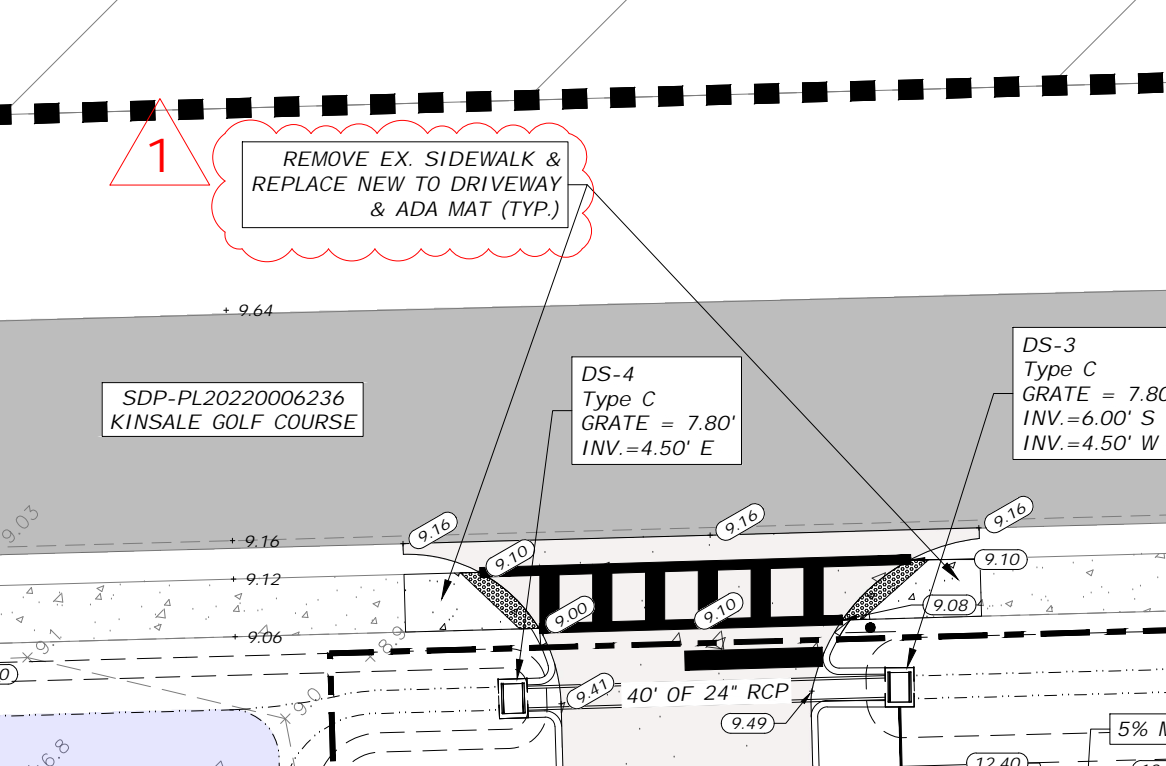
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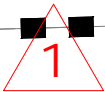
5% M

0

6.8

12.40





REMOVE EX. SIDEWALK &
REPLACE NEW TO DRIVEWAY
& ADA MAT (TYP.)

SDP-PL20220006236
KINSALE GOLF COURSE

+ 9.64

DS-1
Type C
GRATE = 7.80'
INV.=4.50' W

DS-2
Type C
GRATE = 7.80'
INV.=4.50' E
INV.=6.00' S

9.16

9.10

+ 9.16

9.16

+ 9.16

+ 9.54

9.10

9.00

9.00

9.10

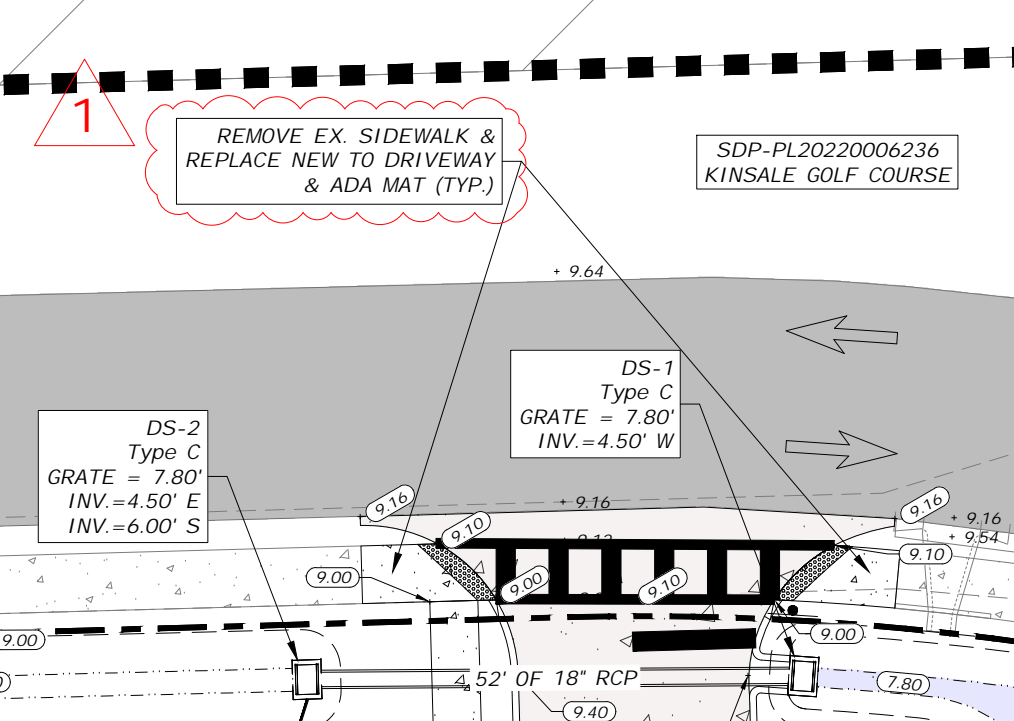
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4.52' OF 18" RCP

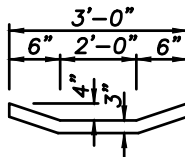
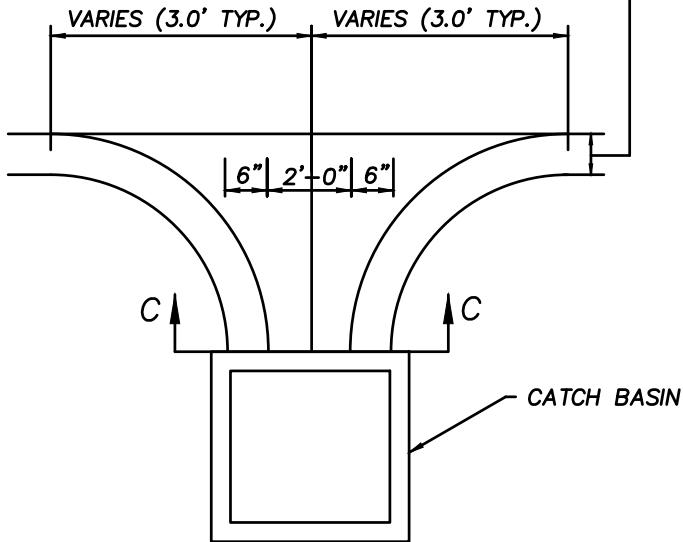
9.40

7.80



1

6" FOR TYPE D CURBS



SECTION CC

FLUME DETAIL

NTS

PRODUCT SPECIFICATIONS

Rigidbilt® Stainless Steel 85-1/2" x 29-3/4" x 12-3/4" Floor Mount Triple Compartment Scullery Sink. Sink is manufactured from 16 gauge 304 Stainless Steel with a Buffed Satin finish, Center drain placement. Sinks supported by (4) 16 gauge stainless steel, 1-5/8" O.D. tubular legs with bullet shaped feet adjustable up to 1".

Material:	304 Stainless Steel
Finish:	Buffed Satin
Gauge:	16
Weight Without Packaging:	143
Number of Bowls:	3
Sink Dimensions:	85-1/2" x 29-3/4" x 42-1/4"
Bowl 1 Dimensions:	24" x 24" x 12-3/4"
Bowl 2 Dimensions:	24" x 24" x 12-3/4"
Bowl 3 Dimensions:	24" x 24" x 12-3/4"
Drainboard Location:	No drainboard
Backsplash Height:	6.25
Leg Type:	Stainless Steel
Drain Size:	3-1/2" (89mm)
Drain Location:	Center



A Century of Tradition and Quality. For more than 100 years, Elkay has been making innovative products and providing exceptional customer care. We take pride in offering plumbing products that make life easier, inspire change and leave the world a better place.

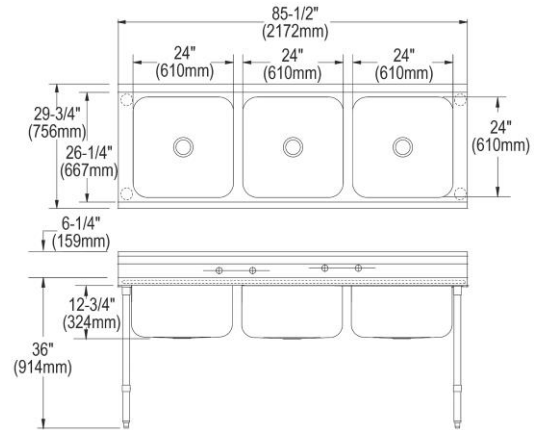


Product Compliance: ASME A112.19.3/CSA B45.4 NSF 2



Sinks are listed by IAPMO® as meeting the applicable requirements of the Uniform Plumbing Code®, International Plumbing Code®, and National Plumbing Code of Canada.

[Clean and Care Manual \(PDF\)](#)
[Warranty \(PDF\)](#)



PART: _____ QTY: _____
 PROJECT: _____
 CONTACT: _____
 DATE: _____
 NOTES: _____
 APPROVAL: _____

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

WALL CLEANOUT KIT

873 SERIES

SPECIFICATION

Sioux Chief 873 Series cleanout cover kit shall be used where necessary in drainage systems to provide access to DWV system. Kit shall include a removable stainless steel access cover, which shall fasten with a stainless steel screw to a threaded cleanout plug. Plug shall be tapped to accept screw and slotted for removal.

MATERIALS

Access cover: 430 Stainless steel - 20 ga.

Cleanout plug: Brass, polypropylene - slotted/tapped

Screw: Stainless steel - 1/4-20 x 2.5"

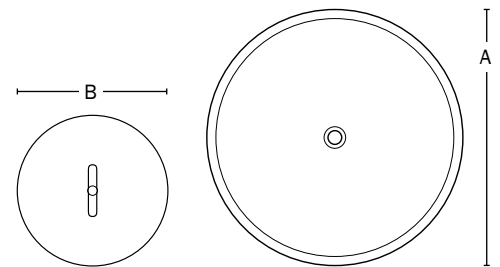
DIMENSIONS

	873	-240	-350	-460
A: Cover diameter		4"	5"	6"
B: Plug size		2"	3"	4"

ITEM # SUBMITTED	_____
JOB NAME	_____
LOCATION	_____
ENGINEER	_____
CONTRACTOR	_____
PO#	_____ TAG _____



873-350



Create Item Number

873-ABC

e.g. **873-460P:** Wall cleanout kit with 4" polypro plug, 6" SS cover and 2.5" screw

COVER/PLUG SIZE **A**

240 = 2" plug | 4" SS cover

350 = 3" plug | 5" SS cover

460 = 4" plug | 6" SS cover

PLUG MATERIAL **B**

Brass (standard)

P = Polypropylene with threaded insert

OPTIONS **C**

V = Vandal-resistant screw¹

¹ Spanner-head in place of standard phillips-head screw



QUADTRO® WASHING MACHINE OUTLET BOXES TECHNICAL SPECIFICATION

Job Name _____	Item # _____
Location _____	
Engineer _____	Contractor _____
PO # _____	Tag _____
Representative _____	

SPECIFICATIONS

Oatey QUADTRO® washing machine outlet boxes shall be used in commercial or residential applications which require supply valves and waste drains recessed into the wall. Available water hammer arrestor option provides water pressure shock arrestors required for installation on supply lines to quick closing valves. Easy to remove knockout.

APPROVALS AND LISTINGS

Boxes	IAPMO Listed
Valves	ASME A112.18.1 / CSA B125.1 NSF / ANSI 61 & 372
Water Hammer Arrestors	ASSE 1010



FEATURES & MATERIALS

2" Drain Opening	PVC or ABS Sch. 40 DWV pipe
Material	High Impact Polystyrene
Snap-On Faceplate	Frame Accommodates Up to 1" Drywall

PRODUCT SELECTOR

ACCESSORIES			
✓	Product Number	Description	Ctn. Qty.
	38941	Plastic Faceplate for Quadtro Center and Offset WMOB	12
	38768	Plastic Brackets, 4" Long, for Plastic Boxes	12
	38648	Plastic Brackets, 12" Long, for Plastic Boxes	12
	38576	Quadtro Test Cap	12
	38577	Quadtro Hug/O-ring	24

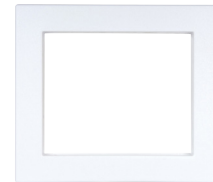
DIMENSIONS

[A]:	Box Width	9.43"	[F]:	Bracket Height	2.06"
[B]:	Box Height	9.61"	[G]:	Bracket Width	7.62"
[C]:	Box Opening Width	8.75"	[H]:	Faceplate Width	11.73"
[D]:	Box Opening Height	7.26"	[I]:	Faceplate Height	10.19"
[E]:	Box Depth	3.73"	[J]:	Faceplate Depth	0.90"

Accessory Components Included:



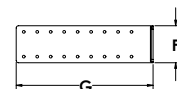
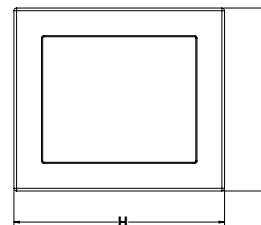
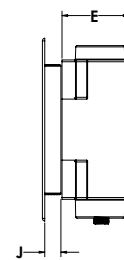
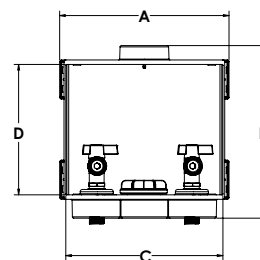
Side Brackets (4)



Faceplate (1)



Test Plug (1)



Access BIM/Revit content through www.oatey.com



QUADTRO® WASHING MACHINE OUTLET BOXES TECHNICAL SPECIFICATION

PRODUCT SELECTOR

QUADTRO® WASHING MACHINE OUTLET BOXES			
✓	Product Number	Description	Ctn. Qty.
	38300	¼ Turn, Push Connect Washing Machine Outlet Box - Display Pack	4
	38311	¼ Turn, Hammer – Push Connect – Standard Pack	12
	38330	¼ Turn, Viega, No Hammer – Standard Pack	12
	38331	¼ Turn, Viega, Hammer – Standard Pack	12
	38338	¼ Turn, Viega, No Hammer – Contractor Pack	12
	38350	¼ Turn, Single Lever, Viega – Standard Pack	12
	38528	¼ Turn, F1807 PEX, Washing Machine Outlet Box - Display Box	4
	38530	¼ Turn Brass Ball Valve – Copper Sweat – Standard Pack	12
	38531	¼ Turn Brass Ball Valve – CPVC – Standard Pack	12
	38532	¼ Turn Brass Ball Valve – ASTM F1807 PEX – Standard Pack	12
	38533	¼ Turn Brass Ball Valve – ASTM F1960 PEX – Standard Pack	12
	38535	Single Lever Ball Valve – Copper Sweat – Standard Pack	12
	38536	Single Lever Ball Valve – CPVC – Standard Pack	12
	38537	Single Lever Ball Valve – ASTM F1807 PEX – Standard Pack	12
	38538	Single Lever Ball Valve – ASTM F1960 PEX – Standard Pack	12
	38539	Single Lever Ball Valve – ASTM F1974 PEX – Standard Pack	12
	38540	¼ Turn Brass Hammer Ball Valve – Copper Sweat – Standard Pack	12
	38541	¼ Turn Brass Hammer Ball Valve – CPVC – Standard Pack	12
	38542	¼ Turn Brass Hammer Ball Valve – ASTM F1807 PEX – Standard Pack	12
	38543	¼ Turn Brass Hammer Ball Valve – ASTM F1960 PEX – Standard Pack	12
	38544	¼ Turn Brass Hammer Ball Valve – ASTM F1974 PEX – Standard Pack	12
	38545	Single Lever Hammer Ball Valve – Copper Sweat – Standard Pack	12
	38546	Single Lever Hammer Ball Valve – CPVC – Standard Pack	12
	38547	Single Lever Hammer Ball Valve – ASTM F1807 PEX – Standard Pack	12
	38548	Single Lever Hammer Ball Valve – ASTM F1960 PEX – Standard Pack	12
	38550	Plain Box – No Valves – Standard Pack	12
	38551	¼ Turn Brass Ball Valve – Compression – Standard Pack	12
	38552	Brass Boiler Drain Valve – Copper Sweat – Standard Pack	12
	38553	Brass Boiler Drain Valve with Screw Driver Stop – Copper Sweat – Standard Pack	12
	38554	North American Brass Boiler Drain Valve – Copper Sweat – Standard Pack	12
	38555	¼ Turn Brass Ball Valve – F2080 PEX – Standard Pack	12
	38556	¼ Turn Brass Ball Valve – 3/8" PEX – Standard Pack	12
	38560	¼ Turn Brass Ball Valve – Copper Sweat – Contractor Pack	12
	38561	¼ Turn Brass Ball Valve – CPVC – Contractor Pack	12
	38562	¼ Turn Brass Ball Valve – ASTM F1807 PEX – Contractor Pack	12
	38563	¼ Turn Brass Ball Valve – ASTM F1960 PEX – Contractor Pack	12
	38569	¼ Turn, Copper, Hammer Arrestors, Washing Machine Outlet Box - Display Pack	4
	38586	¼ Turn, F1807 PEX, Hammer Arrestors, Washing Machine Outlet Box - Standard Pack	4
	38529	¼ Turn, Copper Washing Machine Outlet Box - Display Box	4
	38568	Single Lever, Copper, Washing Machine Outlet Box - Display Box	4
	385287	¼ Turn, F1807 PEX, Washing Machine Outlet Box - Display Box	2
	385297	¼ Turn, Copper, Washing Machine Outlet Box - Display Box	2
	1000001366	¼ Turn, F1960 PEX, Washing Machine Outlet Box - Display Box	4

HVAC NOTES:

THESE MECHANICAL DRAWINGS CONFORM TO ALL REQUIREMENTS OUTLINED IN FMC 8th EDITION (2023).

A. THE HVAC CONTRACTOR SHALL INCLUDE THE FURNISHING OF ALL LABOR AND MATERIALS TO COMPLETE THE AIR CONDITIONING, HEATING, AND VENTILATING WORK AS SHOWN ON THE DRAWINGS TO INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

1. ALL PERMIT FEES
2. ALL AIR CONDITIONING EQUIPMENT
3. EXHAUST FANS AND SYSTEMS
4. MOTORS AND STARTERS FOR EQUIPMENT FURNISHED UNDER THIS WORK
5. SUPPLY AND RETURN DUCTWORK
6. OUTSIDE AIR AND EXHAUST AIR DUCTWORK
7. SUPPLY AND RETURN AIR GRILLES, REGISTERS, WEATHERPROOF LOUVERS AND DAMPERS.
8. FILTERS AND STARTERS, ETC.
9. CONDENSATE DRAIN PIPING.
10. CONTROLS INCLUDING THERMOSTATS AND LOW VOLTAGE WIRING.
11. EQUIPMENT SUPPORTS, HANGERS, ETC.
12. TEST AND BALANCE OF ALL SYSTEMS.
13. COMPLETE CHECKLIST PROVIDED IN PERMITTED ENERGY CALCULATIONS AND SUBMIT TO ENGINEER FOR REVIEW.

B. CONDENSATE PIPING:

1. ALL AIR HANDLERS SHALL HAVE AUXILIARY DRAIN PANS WITH AUXILIARY DRAINS PIPED TO A CONSPICUOUS LOCATION AT THE EXTERIOR OF THE BUILDING. INSULATE CONDENSATE PIPE WITH 1/2" ARMAFLEX.
2. CONDENSATE AND EMERGENCY CONDENSATE DRAINS SHALL BE SCHEDULE 40 PVC ASTM 2665
3. SLOPE HORIZONTAL CONDENSATE DRAINS A MINIMUM OF 1/4" PER FOOT.

C. SUPPLY AND RETURN DUCTWORK:

1. PROVIDE AND INSTALL ALL HEATING AND AIR CONDITIONING DISTRIBUTION DUCTWORK FABRICATED OF UL CLASS DUCT LISTING FOR UL TEST 181 AND MEETING NFPA 90A STANDARD. MADE OF RIGID DUCTBOARD WITH GLASS SCRIM REINFORCED VAPOR BARRIER FACING, WITH THERMAL CONDUCTIVITY OF 0.163 (R-6.0) AND 1 1/2" MINIMUM THICKNESS. DUCT SHALL BE EQUAL TO CertainTeed "ToughGuard" FIBERGLASS RECTANGULAR DUCT SYSTEM TYPE 800-FRK.
2. ALL SUPPLY AND RETURN FLEXIBLE DUCT SHALL BE 1 1/2" R-6.0 VINYL VAPOR BARRIER.
3. FRESH AIR INTAKE AND EXHAUST DUCT SHALL BE GALVANIZED SHEET METAL. PROVIDE 1-1/2" DUCT WRAP INSULATION ON ALL OUTDOOR AIR DUCT AND NO INSULATION EXCEPT AS NOTED IN THE EXHAUST FAN SCHEDULE FOR EXHAUST DUCT.
4. ALL SUPPLY COLLARS OFF MAIN TRUNK LINES SHALL HAVE MANUAL VOLUME DAMPERS.
5. ALL FIBERGLASS DUCT SHALL BE CONSTRUCTED AS PER THE LATEST ADDITION OF SMACNA FIBERGLASS DUCT MANUAL.
6. ALL OUTSIDE AIR CONNECTIONS TO EACH SYSTEM SHALL BE PROVIDED WITH A VOLUME DAMPER.
7. OUTSIDE AIR SHALL COMPLY WITH ASHRAE 62.

D. EXHAUST SYSTEMS:

1. EXHAUST OUTLETS FOR DUCTS CONVEYING NOXIOUS GASES, FLAMMABLE VAPORS, CORROSIVE VAPORS, AND DUCTS SERVING COMMERCIAL, FOOD COOKING AND PROCESSING EQUIPMENT, SHALL TERMINATE OUTSIDE THE BUILDING AND SHALL BE LOCATED 10' FROM ANY ADJACENT BUILDING, PARKING AREA, ADJACENT PROPERTY LINE, WINDOW, DOOR OR AIR INTAKE OPENING AND SHALL BE LOCATED AT LEAST 10' ABOVE THE ADJOINING GRADE.

2. ALL RESTROOM DOORS REQUIRE 3/4" UNDERCUT FOR PROPER TRANSFER OF AIR.

3. KITCHEN HOOD EXHAUST DUCTWORK SHALL BE STAINLESS STEEL 16 GAUGE, AIR TIGHT CONSTRUCTION, SMOOTH INTERIOR SURFACE, MANUFACTURED BY NORFAB OR EQUAL. PROVIDE ACCESSIBLE CLEAN OUT DOORS AT EACH DUCT CHANGE OF DIRECTION AND AT EVERY 12'-0" DISTANCE OF STRAIGHT RUN.

E. REFRIGERANT LINES:

1. SIZE ALL REFRIGERANT LINES TO MEET THE MANUFACTURERS RECOMMENDATIONS.
2. INSULATE ALL SUCTION LINES WITH 1/2" ARMAFLEX INSULATION, INSTALLED TO MEET THE MANUFACTURERS INSTRUCTIONS.
3. ANY REFRIGERANT LINES RUNNING UNDERGROUND SHALL BE WITHIN A PVC PIPE CHASE.

F. CEILING AND WALL DIFFUSERS:

1. ALL CEILING AND WALL SUPPLY AND RETURN AIR DIFFUSERS SHALL BE OF ALUMINUM CONSTRUCTION, EXCEPT WHEN PENETRATING A RATED WALL OR CEILING ASSEMBLY WHEN STEEL DIFFUSERS RATED FOR THE PARTICULAR APPLICATION ARE REQUIRED.
2. ALL AIR DISTRIBUTION SHALL BE EQUAL TO THAT INDICATED ON THE DRAWINGS.

G. THERMOSTATS:

1. EACH AIR CONDITIONING SYSTEM SHALL HAVE A 24 VOLT THERMOSTAT MOUNTED AT 5'-0" ABOVE FINISHED FLOOR. THERMOSTATS SHALL BE ONE STAGE COOL, ONE STAGE HEAT, WITH "AUTO-ON" FAN SWITCH AND "HEAT-OFF COOL" SYSTEM SWITCH. PROVIDE TWO STAGE COOL AND TWO STAGE HEAT THERMOSTATS FOR TWO STAGE UNITS, WHERE REQUIRED. PROVIDE LISTED THERMOSTATS THAT ARE SHOWN ON THE EQUIPMENT SCHEDULE.
2. HVAC CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL WIRING AND CONDUIT AS REQUIRED.

H. TESTING AND BALANCING:

1. HVAC SUBCONTRACTOR SHALL PROVIDE LABOR TO TEST AND ADJUST ALL AIR FLOW RATES AT THE TIME OF THE ORIGINAL COMMISSIONING OF THE SYSTEM AND PROVIDE A CERTIFIED REPORT TO THE GENERAL CONTRACTOR FOR ENGINEERING REVIEW. THEY HAVE THE ADDITIONAL RESPONSIBILITY FOR ONE ADDITIONAL VISIT TO THE PROJECT FOR COMFORT BALANCING WITHIN SIX MONTHS FROM THE TIME THE PROPERTY IS TURNED OVER TO THE OWNER.

LEGEND

REVISION #		MOTORIZED DAMPER	
FLEXIBLE DUCT		WALL CAP	
THERMOSTAT		CEILING EXHAUST FAN	
SPEED CONTROL		IN-LINE EXHAUST FAN	
DIFFUSER, REGISTER, OR GRILLE SYMBOL, LETTER DENOTES TYPE, LOWER NUMBER INDICATES CFM		FLUSH MOUNT SUPPLY DIFFUSER	
FLUSH MOUNT SUPPLY DIFFUSER		SIDEWALL DIFFUSER	
DOOR UNDERCUT		FIRE DAMPER	

ABBREVIATIONS

Ø	ROUND
A/C	AIR CONDITIONING
AF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS
BDD	BACKDRAFT DAMPER
BTUH	BRITISH THERMAL UNITS PER HOUR
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	CORD OPERATED DAMPERS
CP	CONDENSATE PUMP
CU	CONDENSING UNIT
DPR	DAMPER
DWG	DRAWING
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
EXH	EXHAUST
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
HVAC	HEATING VENTILATING AND AIR CONDITIONING
INSUL	INSULATION
KW	KILOWATT
MD	MOTORIZED DAMPER
MFG	MANUFACTURER
MECH	MECHANICAL
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
OA	OUTSIDE AIR
OB	OPPOSED BLADE DAMPER
RA	RETURN AIR
REFG	REFRIGERANT
REQ'D	REQUIRED
SA	SUPPLY AIR
SBCI	SOUTHERN BUILDING CODE CONGRESS INTERNATIONAL
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SP	STATIC PRESSURE
TMBH	TOTAL BTUH X 1000
TSTAT	THERMOSTAT
UL	UNDERWRITERS LABORATORIES
VOL	VOLUME
W/	WITH
W/O	WITHOUT

HVAC SMOKE DETECTOR NOTES:

1. SMOKE DETECTORS SHALL BE SUPPLIED DOWNSTREAM OF THE AIR FILTERS AND AHEAD OF ANY BRANCH CONNECTIONS IN AIR SUPPLY SYSTEMS HAVING A CAPACITY GREATER THAN 900 L/SEC (2000 CFM), PER NFPA 90A-6.4.2.1(1).
2. THE FOLLOWING SYSTEMS REQUIRE SMOKE DETECTORS TO BE FURNISHED & INSTALLED ON THE SUPPLY SIDE OF THE AIR HANDLER:
 - a. AHU-6 (2000 CFM)
 - b. AHU-9 (2000 CFM)
3. SMOKE DETECTORS SHALL BE SUPPLIED AT EACH STORY PRIOR TO THE CONNECTION TO A COMMON RETURN AND PRIOR TO ANY RECIRCULATION OR FRESH AIR INLET CONNECTION IN AIR RETURN SYSTEMS HAVING A CAPACITY GREATER THAN 7080 L/SEC (15,000 CFM) AND SERVING MORE THAN ONE STORY, PER NFPA 90A-6.4.2.1(2).
4. THE FOLLOWING SYSTEMS REQUIRE SMOKE DETECTORS TO BE FURNISHED & INSTALLED ON THE RETURN SIDE OF THE AIR HANDLER:
 - a. NO SMOKE DETECTORS REQUIRED ON RETURN SIDE

ASHRAE 62.1 - 2019

$V_{bz} = R_p P_z + R_a A_z$

V_{bz} = Breathing Zone Outdoor Airflow
 R_p = OA Flow rate from Table 6-1
 P_z = Zone Population - Default Table 6-1
 R_a = OA Flow rate / Unit Area
 A_z = Zone Floor Area
 E_z = Zone Effectiveness

Category	Rp	Pz	Ra	Az	Ez	Vbz	
Category: Bunker 1,2,3,4,5,6,7,8,9,10,11,12 Units	1272	11215	2	-	1.0	= 360 cfm	
Sq. Footage	220	5	12	0.06	220	1.0	= 73 cfm
Category: Admin Conference	210	5	10	0.06	210	1.0	= 63 cfm
Sq. Footage	210	5	10	0.06	210	1.0	= 63 cfm
Category: Conf. Room (Conf. Conference)	340	5	6	0.06	340	1.0	= 51 cfm
Sq. Footage	340	5	6	0.06	340	1.0	= 51 cfm
Category: Foyer/Office Area	117	5	3	0.06	117	1.0	= 22 cfm
Sq. Footage	117	5	3	0.06	117	1.0	= 22 cfm
Category: Admin Foyer	100	-	-	0.06	100	1.0	= 6 cfm
Sq. Footage	100	-	-	0.06	100	1.0	= 6 cfm
Category: Reporting Office	203	5	4	0.06	203	1.0	= 32 cfm
Sq. Footage	203	5	4	0.06	203	1.0	= 32 cfm
Category: Corridors	1245	-	-	0.06	1245	1.0	= 75 cfm
Sq. Footage	1245	-	-	0.06	1245	1.0	= 75 cfm
Category: Bunk Bunker	120	15	2	-	1.0	= 30 cfm	
Sq. Footage	120	15	2	-	1.0	= 30 cfm	
Category: Bunk Office	230	5	2	0.06	230	1.0	= 24 cfm
Sq. Footage	230	5	2	0.06	230	1.0	= 24 cfm
Category: Day Room	840	7.5	15	0.18	840	1.0	= 264 cfm
Sq. Footage	840	7.5	15	0.18	840	1.0	= 264 cfm
Category: Kitchen	710	-	-	35/100	710	1.0	= 178 cfm
Sq. Footage	710	-	-	35/100	710	1.0	= 178 cfm
Category: Exercise Room	627	-	8	0.30	627	1.0	= 188 cfm
Sq. Footage	627	-	8	0.30	627	1.0	= 188 cfm
Category: Transition	293	5	6	0.06	293	1.0	= 47 cfm
Sq. Footage	293	5	6	0.06	293	1.0	= 47 cfm
Category: Treatment	112	5	2	0.06	112	1.0	= 17 cfm
Sq. Footage	112	5	2	0.06	112	1.0	= 17 cfm
Category: Work Rooms	132	5	1	0.06	132	1.0	= 23 cfm
Sq. Footage	132	5	1	0.06	132	1.0	= 23 cfm
Category: Gear Cleaning Bunker	441	-	-	0.06	441	1.0	= 27 cfm
Sq. Footage	441	-	-	0.06	441	1.0	= 27 cfm
Notes: TOTAL REQUIRED OUTDOOR AIR							1470 cfm

FAN SCHEDULE

MARK	---	EF-1	EF-2	EF-3	EF-4,5
MANUFACTURER	---	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL	---	SP-A90	SP-A90	SP-B11055	CUE-200VG
SERVICE	---	TOILET	TOILET	TOILET	APPARATUS BAY
AIR QUANTITY	CFM	50	80	100	3800
EXTERNAL STATIC PRESSURE	IN H ₂ O	0.34	0.25	0.28	0.50
FAN TYPE	---	CEILING	CEILING	CEILING	WALL MOUNTED
MAXIMUM FAN SPEED	RPM	900	900	650	858
DRIVE	---	DIRECT	DIRECT	DIRECT	DIRECT
MOTOR	AMPS	0.7	0.17	0.27	8
ELECTRICAL	V/PH/Hz	115/1/60	115/1/60	115/1/60	208/1/60
CONTROLS	---	SWITCH W/ LIGHTS	SWITCH W/ LIGHTS	SWITCH W/ LIGHTS	WALL SWITCH
SONES	---	0.4	0.4	2.5	13
WEIGHT	LBS.	12	12	10	175
NOTES	---	1, 2, 3	1, 2, 3	1, 2, 3	1, 3, 4

NOTES

1. PROVIDE WITH AUTOMATIC BACKDRAFT DAMPER.
2. PROVIDE WALL CAP WITH BIRD/INSECT SCREEN.
3. APPROVED ALTERNATE MANUFACTURER: COOK.
4. PROVIDE BIRD SCREEN

BUILDING AIR BALANCE			
OUTSIDE AIR INTO BUILDING		EXHAUST AIR OUT OF BUILDING	
SOURCE	CFM	SOURCE	CFM
AHU-1 (OFFICES)	170	EF-1 (S) X 50	250
AHU-9 (BUNKER 1 & BATT BUNKER)	200	EF-2 (4) X 80	320
AHU-7&3 (BUNKER 2 & 3) (2)@150	300	EF-3 (4) X 100	350
AHU-2&4 (EXRC & DAY RM) (2)@240	480	DRYER VENT	100
AHU-5 (TREATMENT)	130	EF-4	3800
AHU-6 (KITCHEN)	300	EF-5 (EMERGENCY)	3800
AHU-10 (TRANSITION)	135		
AHU-8 (CONF/REPORT)	170		
AHU-11 (WORK AREA)	100		
AHU-12 (GEAR BUNKER)	60		
LOUVERS (BAY AREA)	7600		
TOTAL OUTSIDE AIR	9645	TOTAL EXHAUST AIR	8770
BUILDING BALANCE			(+) 875

KITCHEN MAKEUP AIR CALCULATION			
OUTSIDE AIR INTO KITCHEN		EXHAUST AIR OUT OF KITCHEN	
SOURCE	CFM	SOURCE	CFM
TRANSITION	135	KITCHEN (KEF-1)	1300
TREATMENT	85		
KITCHEN	300		
EXERCISE	240		
DAY ROOM	240		
CONFERENCE	180		
TOTAL OUTSIDE AIR	1180	TOTAL EXHAUST AIR	1300
BALANCE			(-) 120

KITCHEN IS MAINTAINED AT NEGATIVE PRESSURE TO PREVENT ODORS FROM MIGRATING TO OTHER AREAS.

AIR DISTRIBUTION SCHEDULE						
MARK	MFG.	MODEL	SIZE	DIRECTION	CFM	NOTES
1	TITUS	TMSA-AA	12 X 12 W/ 6" NK	4 WAY	100 MAX	1, 2, 4
2	TITUS	TMSA-AA	24 X 24 W/ 8" NK	4 WAY	100 - 250	1, 2, 4
3	TITUS	TMSA-AA	24 X 24 W/ 10" NK	4 WAY	251 - 400	1, 2, 4
4	TITUS	TMSA-AA	24 X 24 W/ 12" NK	4 WAY	401 - 500	1, 2, 4
5	TITUS	TMSA-AA	24 X 24 W/ 14" NK	4 WAY	501 - 750	1, 2, 4
6	TITUS	355FL	38 X 38	HORIZONTAL 0° DEFLECTION	3800	2, 4
7	TITUS	TMSA-AA	24 X 24 W/ 8" NK	2 WAY	100 - 250	1, 2, 4
A	TITUS	350FL	24 X 24	RETURN	---	1, 2, 3, 4
B	TITUS	350FL	12 X 12	RETURN	---	1, 2, 3, 4
C	TITUS	350FL	8 X 8	SOFFIT EXHAUST	---	2, 3, 4
D	TITUS	60FL	38 X 38	EXHAUST	---	2, 4
E	TITUS	60FL	36 X 20	EXHAUST	---	2, 4

NOTES

1. PROVIDE OBD.
2. COORDINATE MOUNTING TYPE, TEXTURE, COLOR WITH OWNER/ARCHITECT.
3. 350 FL WITH 35° DEFLECTION ALUMINUM
4. PROVIDE ALL SUPPLY AND RETURN SELECTIONS < 25NC.

AIRVAC 911® AUTOMATIC EXHAUST CONTROL SYSTEM AVC-6C (AIRVAC-1 THRU 6):

1. OPERATOR CONTROLS: EACH STANDARD AVC PANEL COMES WITH AN ON-OFF-AUTO SELECTOR AND AN ILLUMINATED PUSHBUTTON.
 - a. IN THE ON POSITION, THE AVC STARTUP SEQUENCE IS INITIATED AND AVC UNITS WILL REMAIN ENERGIZED.
 - b. IN THE OFF POSITION, ALL AVC UNITS WILL BE DE-ENERGIZED
 - c. IN THE AUTO POSITION, THE AVC STARTUP SEQUENCE IS INITIATED (BY AN EXTERNAL CONTACT CLOSURE OR BY PRESSING THE ILLUMINATED PUSH BUTTON) AND ALL AVC UNITS WILL REMAIN ON FOR 15 MINUTES (FACTORY SETTING) OR DESIRED TIME.
 - d. THE ILLUMINATED PUSHBUTTON WILL ILLUMINATE WHEN AVC UNITS ARE ON
2. STARTUP SEQUENCE: UPON INITIATION, TWO AIRVAC 911® UNITS WILL ENERGIZE. REMAINING AIRVAC 911® UNITS WILL ENERGIZE IN GROUPS OF TWO (AFTER 15 SECONDS DELAYS) UNTIL ALL AIRVAC 911® UNITS ARE ENERGIZED.
3. 24V EXTERNAL SENSOR POWER: EACH STANDARD AVC PANEL COMES WITH A 40W 120V TO 24V TRANSFORMER TO POWER SPECIFIC FIELD DEVICES AVAILABLE FROM AIR VAC TAKEEX (PB-30TK) PHOTO EYES, MACURCO/HONEYWELL E3 CO/NO2 GAS DETECTION SWITCHES, ETC.). PROVIDE 2 PAIR, SHIELDED AND COLOR CODED CABLE FOR LOW VOLTAGE WIRING. REFER TO THE APPROPRIATE STANDARD AVC PANEL FOR DETAILED WIRING INFORMATION.
4. 120V EXTERNAL (SEQUENCE INITIATE IN AUTO) CONTACT WIRING: EACH STANDARD AVC PANEL ALLOWS THE AVC STARTUP SEQUENCE TO BE INITIATED BY AN EXTERNAL CONTACT CLOSURE IN THE AUTO POSITION. REFER TO AVC PANEL DRAWINGS FOR DETAILED WIRING INFORMATION.

MACURCO/HONEYWELL E3 CO/NO2 GAS DETECTION SYSTEM:
SEQUENCE OF OPERATION

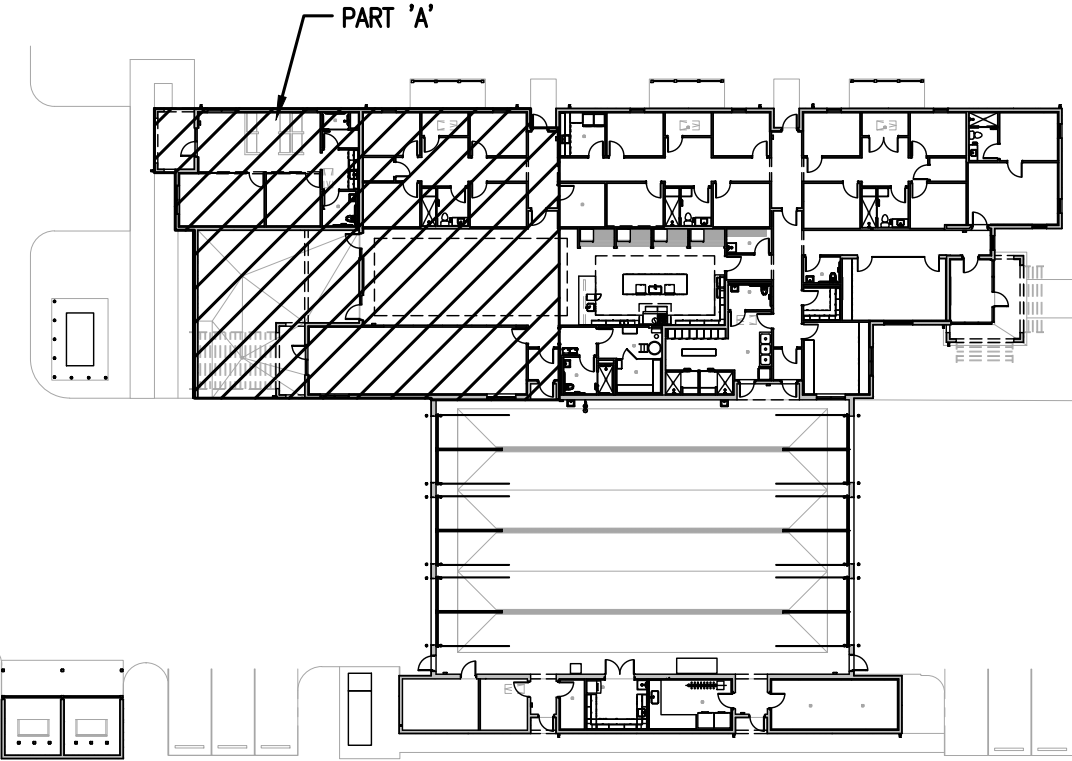
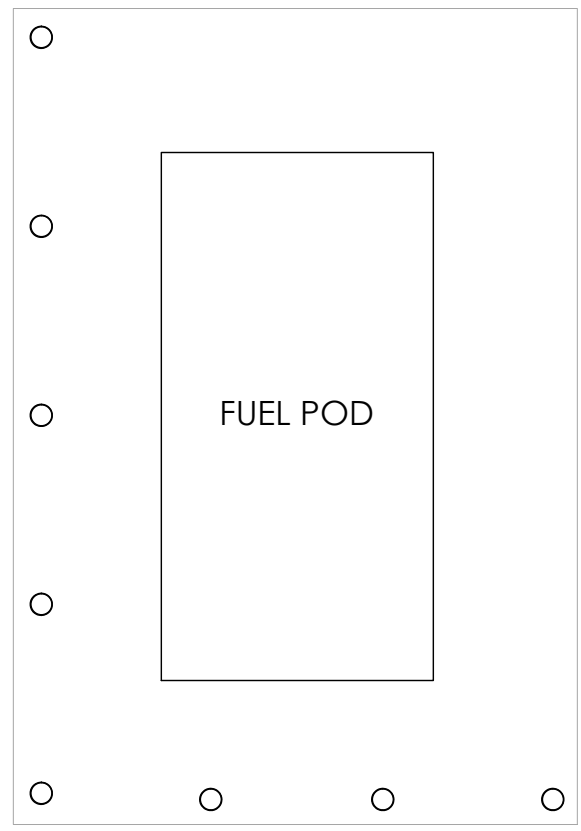
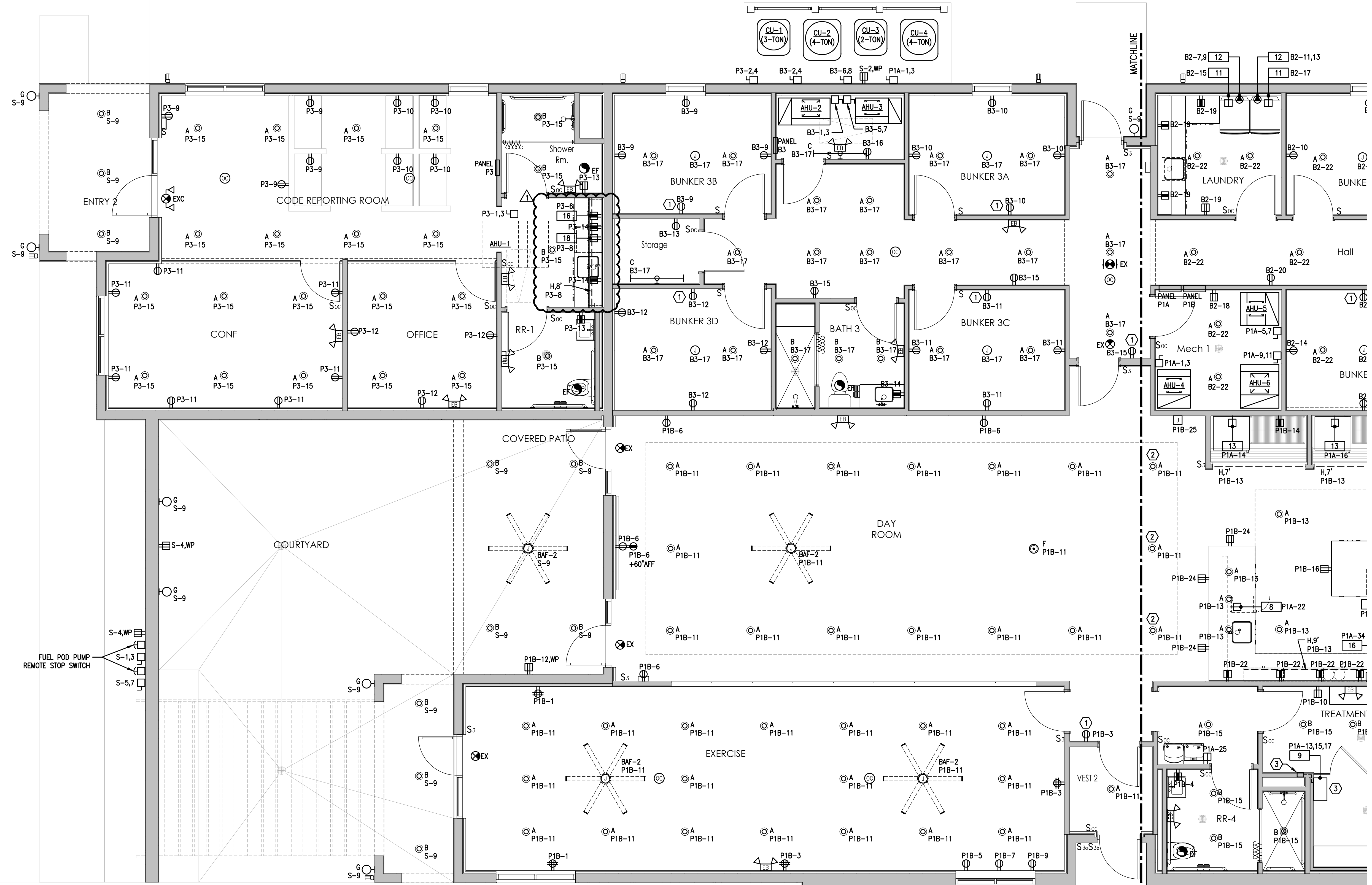
1. OCCUPIED OPERATION: E³ SYSTEM ACTIVATES EF-5 AND OPENS LOUVER-1.
2. UPON E³ SENSING LEVELS OF CO/NO² AT MAX CODE REQUIREMENTS, E³ SHALL ACTIVATE EF-4 AND OPEN LOUVER-2 WITH EF-5 ON AND LOUVER-1 OPEN UNTIL CO/NO² LEVELS ARE SENSED BELOW MINIMUM CODE REQUIREMENTS.
3. ADDITIONAL WALL MOUNTED CO/NO² DETECTORS SHALL BE PROVIDED AND INTERCONNECTED WITH E³ PANEL.

AIRVAC SCHEDULE

MARK	---	AVC-1 THRU 6
MANUFACTURER	---	AIRVAC
MODEL	---	AIRVAC911
SERVICE	---	APPARATUS BAY
AIR QUANTITY	CFM	2000
FAN TYPE	---	CEILING
DRIVE	---	BELT
MOTOR	HP	3/4
ELECTRICAL	V/PH/Hz	208/1/60
CONTROLS	---	AVC AIRVAC CONTROL PANEL
POWER		

ELECTRICAL PLAN NOTES:

- EMERGENCY AND EXIT LIGHTS SHALL BE FED DIRECTLY FROM CIRCUIT BREAKER BEFORE SWITCHING IN THE ROOM IN WHICH IT IS INSTALLED, SUCH THAT POWER FAILURE OR TRIPPED CIRCUIT WILL NOT PREVENT THE EMERGENCY LIGHT FROM COMING ON, UNLESS NOTED OTHERWISE. SEE PANEL SCHEDULE FOR LIGHTING CIRCUITS WITH "EM" AS PART OF THE DESCRIPTION.
- FURNISH AND INSTALL TIMECLOCK AND PHOTOCCELL CONTROL FOR ALL EXTERIOR LIGHTING ON THE BUILDING AND ON THE SITE. TIMECLOCK SHALL INCLUDE GROUP SWITCHING.
- FURNISH & INSTALL TIMECLOCK CONTROL FOR ALL AREAS LISTED IN FBC ENERGY CONSERVATION SECTION C405.2.1 NOT PROVIDED WITH OCCUPANCY SENSOR CONTROLS PER THE PLANS. TIMECLOCK SHALL HAVE ALL FUNCTIONS AS LISTED PER SECTION C405.2.2.1.
- MECHANICAL & ELECTRICAL ROOMS SHALL NOT HAVE AUTOMATIC LIGHTING CONTROLS DUE TO THE POTENTIAL FOR AUTOMATIC SHUTOFF TO ENDANGER THE SAFETY OF THE OCCUPANT.
- SEE GENERAL NOTES, DEVICES SECTION, FOR TAMPER-RESISTANT RECEPTACLE REQUIREMENTS.
- SEE GENERAL NOTES, DEVICES SECTION, FOR AFCI PROTECTION REQUIREMENTS. THE CONTRACTOR MAY USE COMBINATION AFCI AND GFCI RECEPTACLES WHERE NECESSARY.
- BUNKER ROOMS ARE SLEEPING QUARTERS THAT SHALL HAVE MANUAL LIGHTING CONTROLS ONLY.
- ALL APPARATUS BAY LIGHTS SHALL AUTOMATICALLY TURN ON IN THE EVENT AN ALARM CALL IS RECEIVED. COORDINATE REQUIREMENTS WITH ALERTING SYSTEM.
- TOILET EXHAUST FANS ARE POWERED FROM THE LIGHTING CIRCUIT IN THE AREA UNLESS NOTED OTHERWISE.
- FURNISH & INSTALL LIGHT AND RECEPTACLE AT ALL ATTIC ACCESS LOCATIONS. SEE PANEL SCHEDULES FOR CIRCUITRY. COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- LIGHT FIXTURES DENOTED WITH "NL" SHALL BE PROVIDED WITH A SEPARATE DEDICATED TIMECLOCK, SUCH THAT THE FIXTURES SHALL REMAIN ON AT NIGHT.
- CONDUITS FOR THE FUEL POD SHALL BE PROVIDED WITH SEALS.
- LOW BAY LIGHTING IN THE APPARATUS BAY SHALL BE PROVIDED WITH A DEDICATED TIMECLOCK.



KEY PLAN
SCALE: NOT TO SCALE

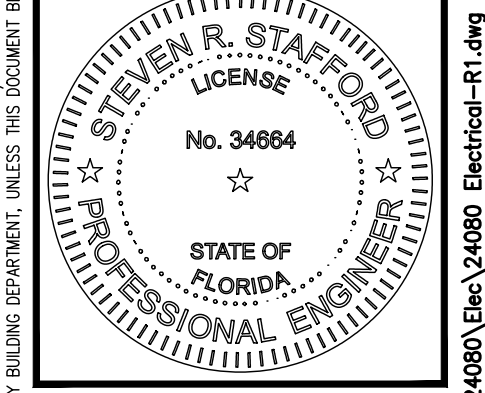
ELECTRICAL PLAN - PART 'A'
SCALE: 1/4" = 1'-0"

- KEYED NOTES:**
- RECEPTACLE SHALL INCLUDE INTEGRAL NIGHT LIGHT.
 - INDICATED LIGHT FIXTURES SHALL AUTOMATICALLY TURN ON IN THE EVENT AN ALARM CALL IS RECEIVED. LIGHT FIXTURES SHALL BE FURNISHED & INSTALLED BY THE CONTRACTOR. COORDINATE REQUIREMENTS WITH ALERTING SYSTEM BY OTHERS. (TYPICAL OF 3)
 - SAUNA RECEIVES POWER FROM CONTACTOR BOX AND IS CONTROLLED VIA WALL MOUNTED CONTROLLER WITH INTEGRAL TIME CLOCK. INSTALL PER MANUFACTURER REQUIREMENTS. SEE EQUIPMENT SCHEDULE FOR MODEL NUMBERS OF SAUNA, CONTACTOR BOX, AND CONTROLLER.
 - KITCHEN EXHAUST FAN DISCONNECT AND MAINTENANCE RECEPTACLE LOCATED ON ROOF.
 - BUILDING SIGNAGE CIRCUIT. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS. COORDINATE ALL REQUIREMENTS WITH OWNER/SIGNAGE SUPPLIER.

PROJECT NAME:
North Collier Fire Control & Rescue Station #49
Cochatchee Road
Naples, FL 34110

STAFFORD ENGINEERING, INC.
3625 Bonita Beach Rd., Suite 111, Bonita Springs, FL 34134
239-948-5841 / 239-948-5990 FAX
www.staffordengineeringinc.com
Steven R. Stafford - PE - Florida License # 34664
Certificate of Authorization No. 26464

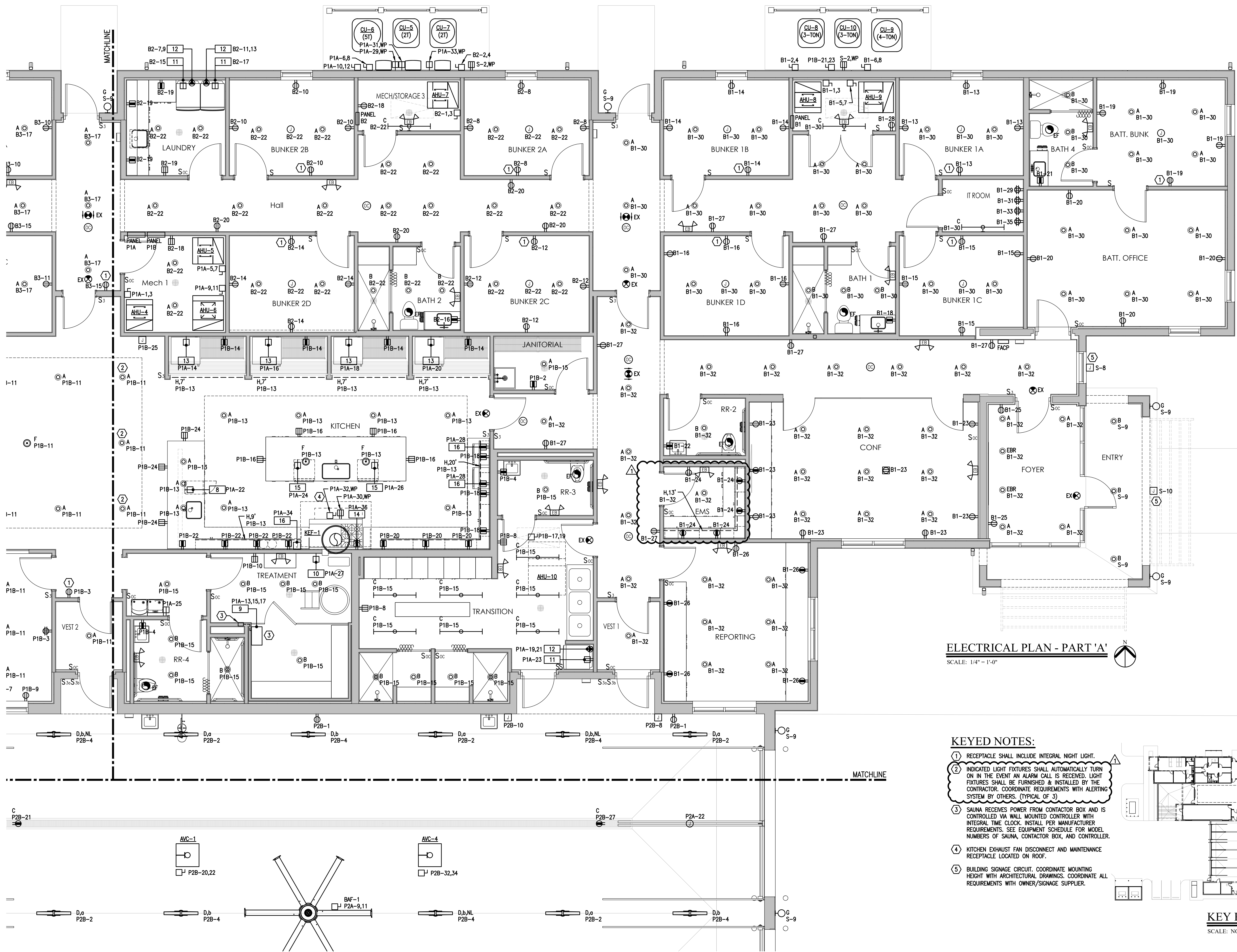
RFI CHANGES	NOVEMBER 17, 2025
ISSUED FOR BID	SEPTEMBER 30, 2025
ISSUED FOR PERMIT	AUGUST 11, 2025
#	REVISION / DATE



DATE:	08/11/25
DRAWN BY:	R.A.M.
CHECKED BY:	S.R.S.
JOB NUMBER:	24080

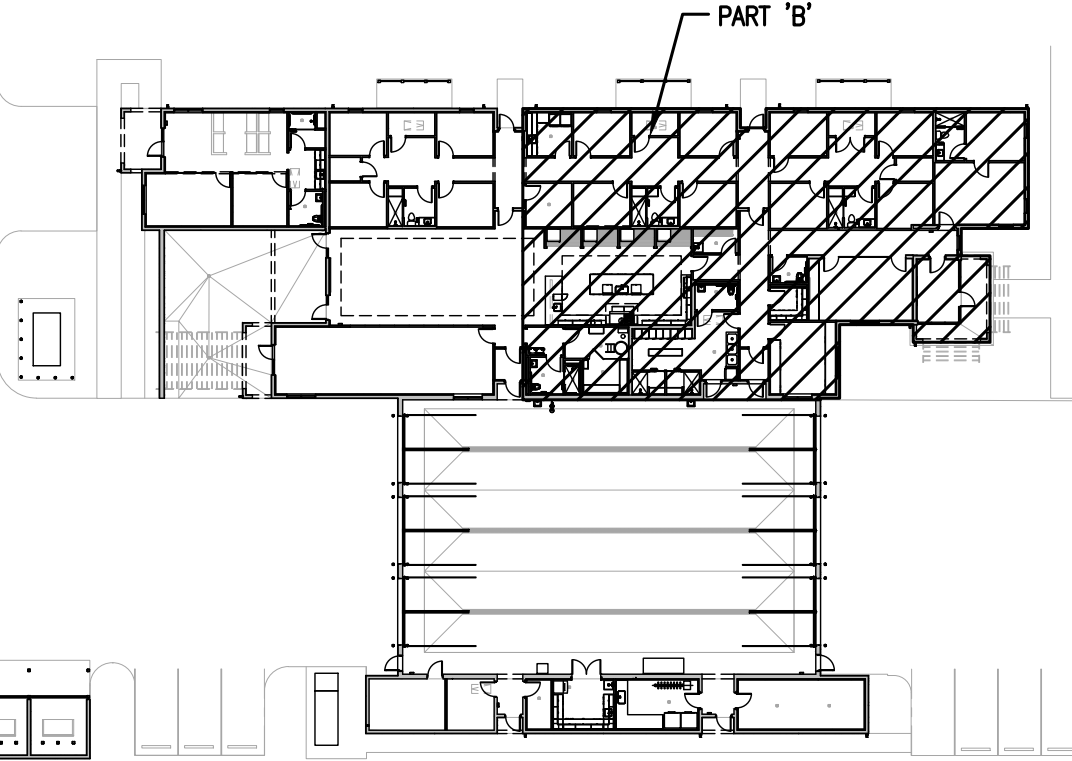
E1.2

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ELECTRICAL PLAN - PART 'A'
SCALE: 1/4" = 1'-0"

- KEYED NOTES:**
- RECEPTACLE SHALL INCLUDE INTEGRAL NIGHT LIGHT.
 - INDICATED LIGHT FIXTURES SHALL AUTOMATICALLY TURN ON IN THE EVENT AN ALARM CALL IS RECEIVED. LIGHT FIXTURES SHALL BE FURNISHED & INSTALLED BY THE CONTRACTOR. COORDINATE REQUIREMENTS WITH ALERTING SYSTEM BY OTHERS. (TYPICAL OF 3)
 - SALINA RECEIVES POWER FROM CONTRACTOR BOX AND IS CONTROLLED VIA WALL MOUNTED CONTROLLER WITH INTEGRAL TIME CLOCK. INSTALL PER MANUFACTURER REQUIREMENTS. SEE EQUIPMENT SCHEDULE FOR MODEL NUMBERS OF SALINA, CONTRACTOR BOX, AND CONTROLLER.
 - KITCHEN EXHAUST FAN DISCONNECT AND MAINTENANCE RECEPTACLE LOCATED ON ROOF.
 - BUILDING SIGNAGE CIRCUIT. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS. COORDINATE ALL REQUIREMENTS WITH OWNER/SIGNAGE SUPPLIER.



KEY PLAN
SCALE: NOT TO SCALE

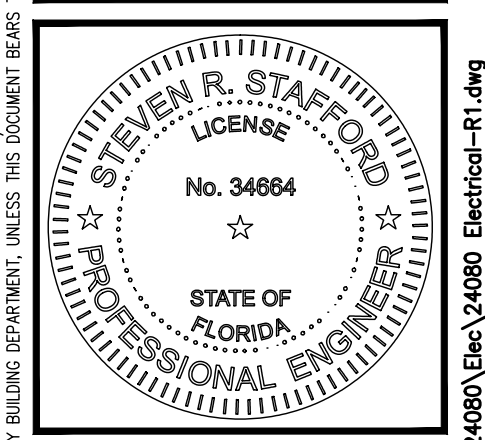
PROJECT NAME:
**North Collier Fire Control
& Rescue Station #49**
Cochatchee Road
Naples, FL 34110

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RFI CHANGES	NOVEMBER 17, 2025
ISSUED FOR BID	SEPTEMBER 30, 2025
ISSUED FOR PERMIT	AUGUST 11, 2025
#	REVISION / DATE

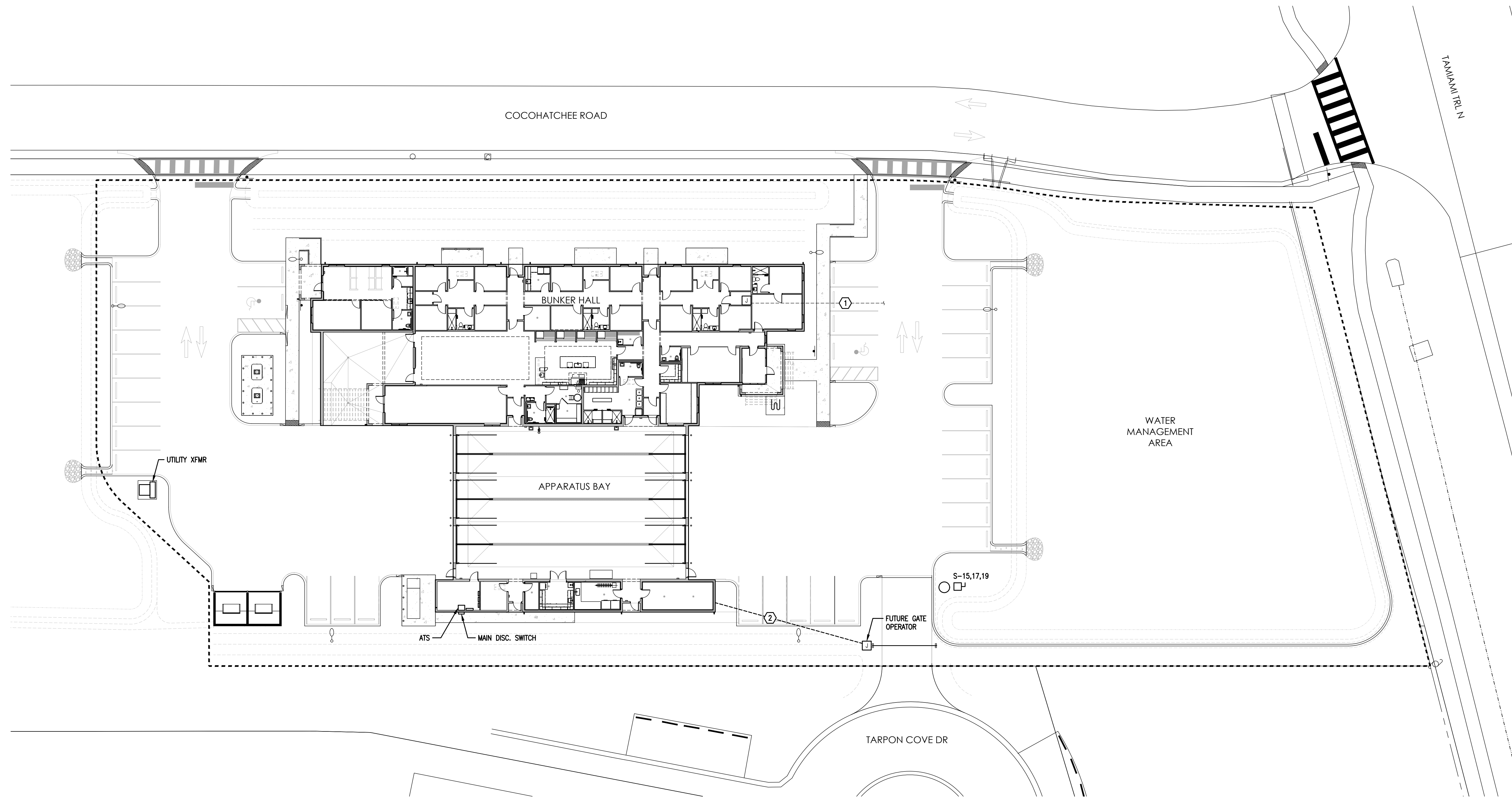


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CHECKED BY:	S.R.S.
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E1.3

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ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"



KEYED NOTES:

- ① FURNISH & INSTALL (1) 2" EMPTY CONDUIT WITH PULL STRINGS FOR FIBER SERVICE INSTALLATION. TERMINATE CONDUIT IN IT ROOM AT JUNCTION BOX. FINAL LOCATION OF TERMINATION DETERMINED BY OWNER & INTERNET SERVICE PROVIDER. FIELD COORDINATE AS REQUIRED. ALLOW 200 LINEAR FEET WITH AN ADDER.
- ② FURNISH & INSTALL (1) 2" EMPTY CONDUIT WITH PULL STRINGS FROM PANEL S FOR FUTURE GATE OPERATOR. SEE CIVIL/ARCHITECTURAL FOR TERMINATION LOCATION. (±75' LENGTH FROM BUILDING EXTERIOR)

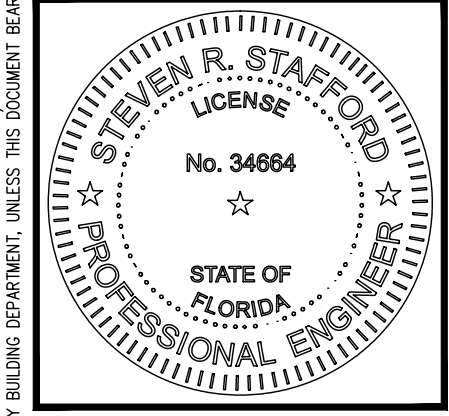
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NOTE: SHEET IS NEW WITH REVISION 1.

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