

# **Addendum 1**

Owner Information	INDIANA DEPARTMENT OF ADMINISTRATION
Contractor Information	N/A

DATE	10/18/2024
PROJECT NAME	INDIANA STATE POLICE POST #45 (SELLERSBURG) HVAC RENOVATION
INTROBA PROJECT #	2035.0012551
PUBLIC WORKS PROJECT #	10011020-24-018-C1
PWP CONTRACT #	81780
DISTRIBUTION	Owner
ADDENDUM CONSIST OF	(6) 8.5 X 11 PAGES AND (4) 30X42 FULL-SIZE SHEETS

The following additions, revisions, and modifications are part of the contract documents, which shall be amended accordingly. Acknowledge receipt of addenda on the bid form. Failure to acknowledge receipt of this addendum may result in the rejection of your offer.

## **GENERAL**

- 1. Pre-Bid Meeting Agenda:
  - a. Updated the agenda to include meeting notes taken during the meeting.
- 2. Pre-Bid Meeting Sign-in Sheet:
  - a. Pre-Bid Meeting sign-in sheet is included in Addendum 1 documentation.

## **SPECIFICATIONS**

- 1. 235233 HYDRONIC BOILERS:
  - a. Paragraph 2.1, Subparagraph A., add the following subparagraph: "2. Fulton"

## **DRAWINGS**

1. MD120 - MECHANICAL ROOF DEMOLITION PLAN:

- a. Relief hood serving 106 Training Room has been updated to be shown as demolished on drawings.
- 2. M120 MECHANICAL ROOF PLAN:
  - a. New relief hood serving 106 Training Room has been included on drawings.
- 3. M600 MECHANICAL SCHEDULES:
  - a. Boiler Schedule. Updated boiler GPM.
  - b. Pump Schedule. Updated pump selections based on updated boiler GPM.
- 4. M610 MECHANICAL SCHEDULES:
  - a. Non-Powered Roof Ventilator Schedule. Added new relief hood serving 106 Training Room.

SIGNATURE Christopher Hawk





8250 Haverstick Road Indianapolis, IN 46240 P: 317-638-8383

## Pre-Bid Meeting Agenda

Meeting Name	Indiana State Police Posts – Sellersburg, Post 45 HVAC Replacement DAPW Project # 10011020-24-018-C1
Meeting Date(s)	October 9, 2024
Meeting Time	10:00 AM EST
Meeting Location	Sellersburg State Police Post 45, 8014 Highway 311, Sellersburg, IN 47172
Ву	Christopher Hawk

## **Meeting Agenda**

- A. Sign-In Sheet
- B. Contacts/Project Team
  - 1. Indiana State Police Sellersburg, Post 45
    - a. Mike Gaddis, DAPW: mgaddis2@idoa.in.gov, (317) 233-2540
    - b. Scott Stafford, Maintenance Supervisor II, ISP: <a href="mailto:sstafford@isp.in.gov">sstafford@isp.in.gov</a>, (812) 320-5649
  - 2. Introba, MEP Engineers
    - a. Christopher Hawk: <a href="mailto:christopher.hawk@introba.com">christopher.hawk@introba.com</a>, (317) 638-8383
    - b. Samuel Hubbe: <a href="mailto:samuel.hubbe@introba.com">samuel.hubbe@introba.com</a>, (317) 638-8383
- C. General Project Scope Overview
  - 1. Replacements of major mechanical equipment and systems including air handling units, boilers, condensing units, pumps, fans, and air devices.
  - 2. Selective demolition of ductwork, piping, and air devices. Full removal of mixing boxes, duct mounted reheat coils, and existing controls.
  - 3. New variable air volume (VAV) boxes and digital controls for all existing and newly installed equipment.
  - 4. New natural gas utilities to be installed for the building to support existing and new equipment.
  - 5. Selective demolition of electrical devices, starters, disconnects, electrical panels, and conduit.
  - 6. Remove and reinstall lighting fixtures and other electrical ceiling devices as part of construction.
  - 7. Installation of one new electrical panel. Providing new starters, disconnects, drives, junction boxes, conduit, and wiring for new mechanical equipment.
- D. Refer to "Notice to Bidders"
  - 1. Bid documents are available online: https://distribution.easternengineering.com/View/ViewJob.aspx?job\_id=30424



- 2. Bids are due 1:31 PM (local time) on October 31, 2024. Bid opening will follow and can be viewed using the link below.
  - a. <a href="https://on.in.gov/e5wx6">https://on.in.gov/e5wx6</a>
- 3. Submit bids to <a href="mailto:publicworksbids@idoa.in.gov">publicworksbids@idoa.in.gov</a>.
- Refer to specifications for all bidder requirements and instructions including insurance, bidder qualifications, security and bonding.

### E. Project Schedule

- 1. Preliminary overall construction phases are indicated in documents.
  - a. Onsite work can start from the date that the contract is signed.
  - b. Onsite work to be completed one year (365 days) from the signed contract date.
- 2. Contractor to submit detailed construction schedule as part of bid.

### F. Logistics Overview

- 1. Contractor to protect all existing finishes and major furnishings.
- 2. Dumpster to be provided by Contractor, location to be coordinated with ISP staff.
- 3. Clean-up will be required after each shift.
- 4. Access and work hours.

### G. Questions

- 1. Submit questions via email to Christopher Hawk at Introba, CC Samuel Hubbe and Beth Fitzsimmons.
  - a. <a href="mailto:christopher.hawk@introba.com">christopher.hawk@introba.com</a>
  - b. samuel.hubbe@introba.com
  - c. <u>beth.fitzsimmons@introba.com</u>
- 2. All questions must be received by noon on October 18, 2024.
- H. Bidder Questions
- I. Site Walkthrough
- J. Notes from Pre-Bid Meeting
  - 1. Access and working hours tentatively established as 7am-4:30pm M-F. Coordinate working hours schedule with state holidays.
  - 2. Primary and sub-contractors shall be pre-certified with DAPW prior to start of work.
  - 3. XBE requirements established by DAPW must be followed by contractors.
  - 4. Preconstruction meeting shall be held to address construction phases with users and consultants, protecting existing finishes and furnishings, and other coordination items.
  - 5. Extended warranties on specific mechanical equipment will be researched by Introba.



- 6. DAPW/ISP shall coordinate with utility company (Center Point) to complete new natural gas utilities application.
- 7. DX piping and conduit routing to and from outdoor condensing units will be researched by Introba.
- 8. Electrical disconnects with VFD's will be researched by Introba.





BY	DATE	CHECKED	DATE	
PROJECT #	PROJECT NAME		SHEET	OF

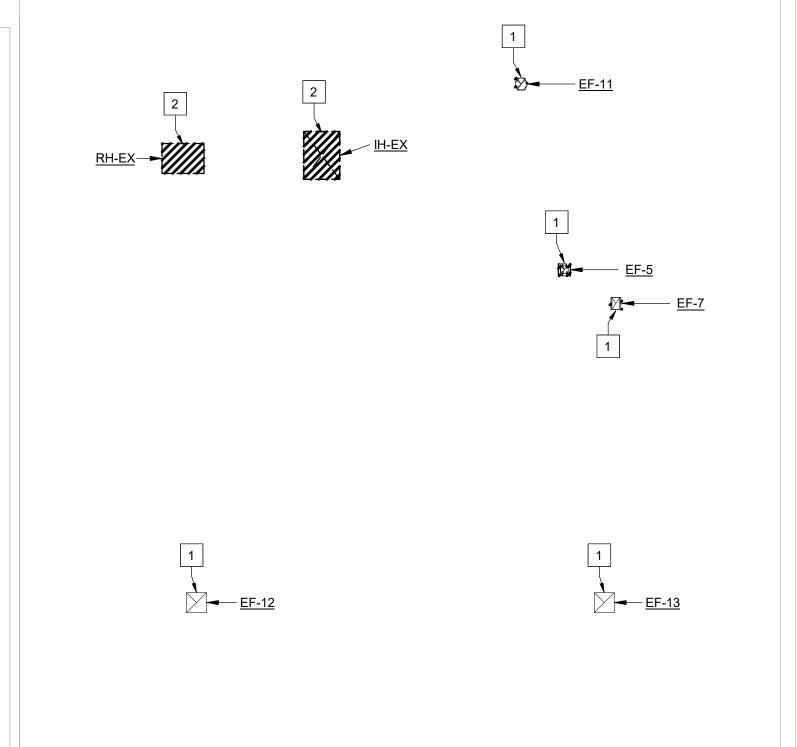
# JSP- Sellisburg

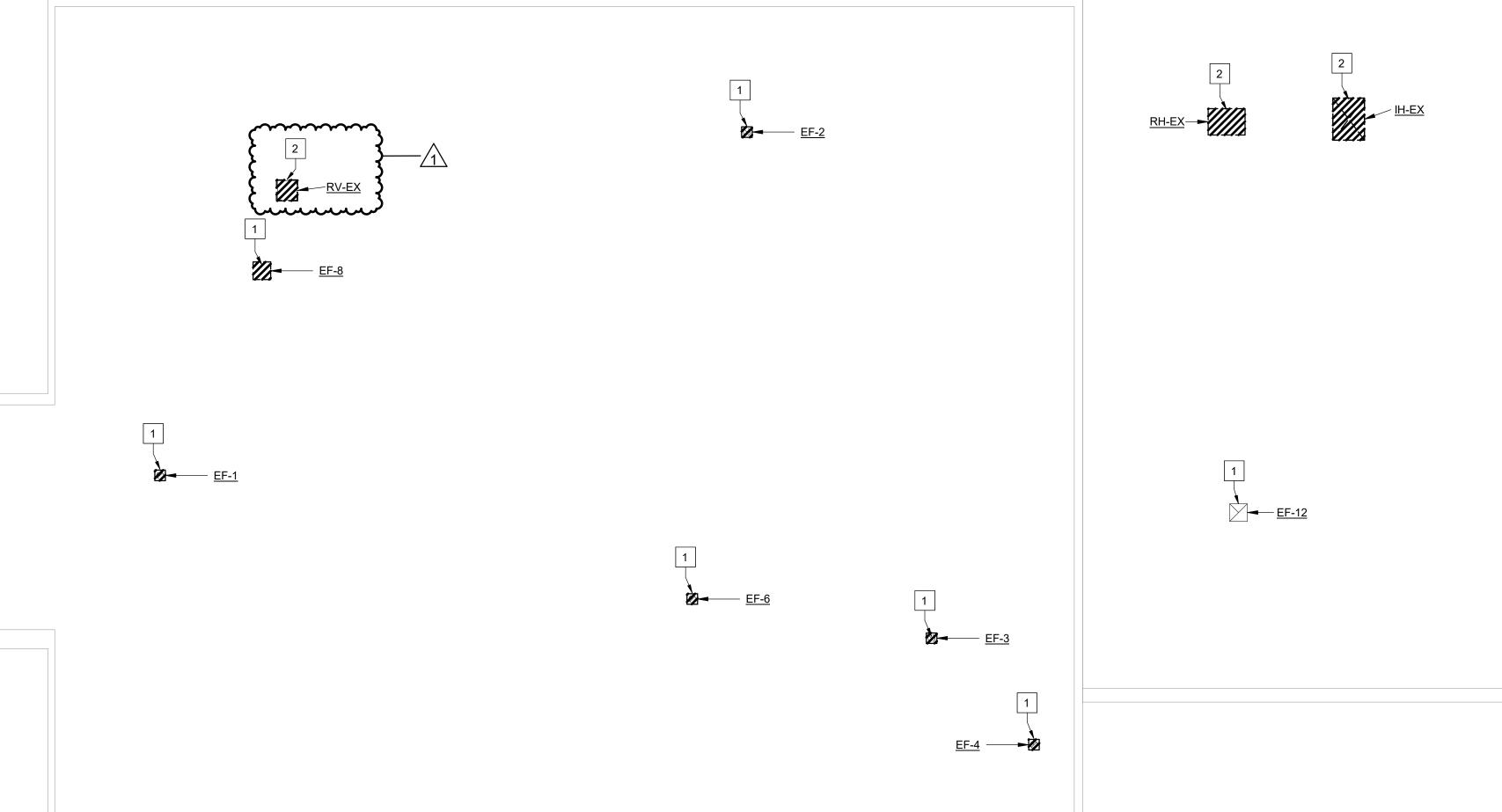
NAME	EMAIL	COMPANY	
Justin Estes	justin quality controls@		ca15e
cody works	cody & Aading Mcchai		:
Dan Schuck	danse daveoma		c= (
RANDY MILLER	RMILLER @HARRELL-		· : · · ·
Chris Hank	christopher. hank		
Sam. Hubbe	samuel. hubbe e	introbación Intoba	
David Miller	Dmiller @isp,in.	.gov ISP	
Michael Gaddis	mgaddis 200 ida	ain,gov IDOA	
scatt stafford	SStafford 2 isp. i		
Randy Hodge	e rhodgears,	PINIGOU ISP	

A. REFER TO SHEET M000 FOR PROJECT GENERAL NOTES.

# SHEET KEYNOTES

- REMOVE EXISTING EXHAUST FAN, ASSOCIATED CONTROLS, AND ACCESSORIES COMPLETELY. PREPARE FOR RECONNECTION OF NEW EXHAUST FAN. REUSE EXISTING ROOF CURB AND PROVIDE ROOF CURB ADAPTER AS NECESSARY.
- REMOVE EXISTING INTAKE/RELIEF HOOD AND ASSOCIATED ACCESSORIES COMPLETELY. PREPARE FOR RECONNECTION OF NEW INTAKE/RELIEF HOOD IN NEW WORK.





<u>EF-9</u> 1 1 <u>EF-15</u>

— 10" Ø VENT DN. TO FUME HOOD 26.GA. S.S. DUCT W/ FIN. COLLAR @ CLG.





HVAC RENOVATION
DEPARTMENT OF ADMINISTRATION
8014 COUNTY RD. 311
SELLERSBURG IN 47172

Introba

INDIANA STATE POLICE POST

STATE OF INDIANA
DEPARTMENT OF ADMINISTRATION
PUBLIC WORKS DIVISION

 
 1
 Addendum 1
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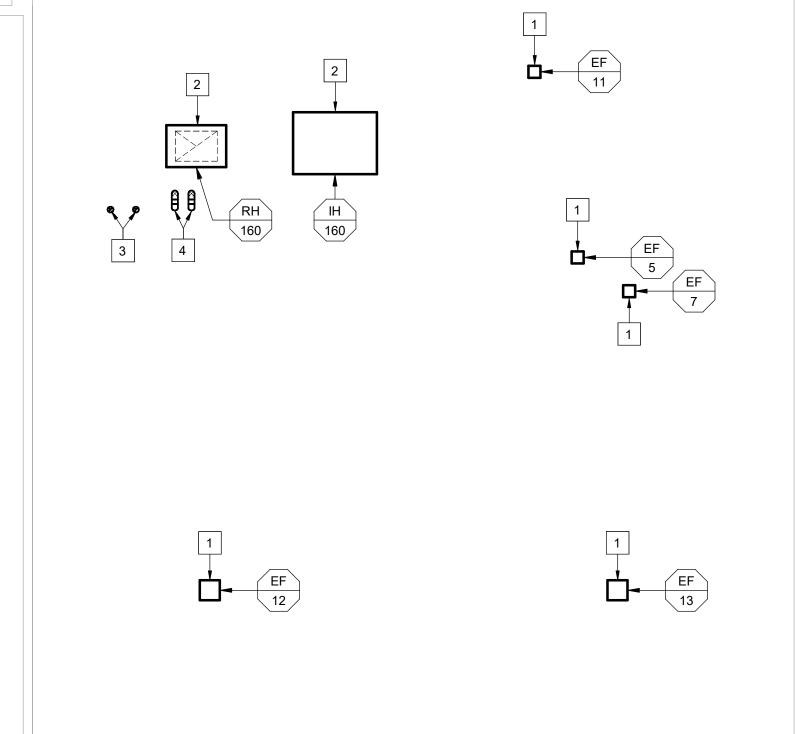
 NO
 REVISION
 DATE
 Introba Project Number: 2035.0012551.000 Public Works Project Number: 10011020-24-018-C1 State of Indiana PWP Contract Number: 81780 Drawing Date: 08-16-2024 Designer: SJH

Drafter: SJH Drawing Scale:
AS NOTED DAPW Approval:

Client Approval: ND 120

# SHEET KEYNOTES

- NEW EXHAUST FAN IS TO BE INSTALLED AT THE SAME LOCATION AS WHERE THE EXISTING FAN WAS PREVIOUSLY REMOVED. REUSE EXISTING ROOF CURB FOR NEW EXHAUST FAN. PROVIDE ROOF CURB ADAPTER TO MOUNT NEW EXHAUST FAN TO EXISTING CURB AS NECESSARY. REUSE EXISTING ROOF PENETRATION AND ADJUST SIZE OF PENETRATION FOR NEW DUCTWORK SIZE AS NECESSARY.
- PROVIDE NEW ROOF PENETRATION. REFER TO DETAIL 4 ON SHEET M500 FOR ADDITIONAL INFORMATION.
- DOWN AND INSTALL BIRDSCREEN AT INTAKE. REFER TO DETAIL 9 ON SHEET M510 FOR ADDITIONAL INFORMATION.





- NEW INTAKE AND RELIEF HOODS ARE TO BE INSTALLED AT THE SAME LOCATION AS WHERE THE EXISTING HOODS WERE PREVIOUSLY REMOVED. REMOVE EXISTING ROOF CURB AND PROVIDE NEW ROOF CURB FOR NEW INTAKE/RELIEF HOOD. REUSE EXISTING ROOF PENETRATION AND ADJUST SIZE OF PENETRATION FOR NEW DUCTWORK SIZE AS NECESSARY.
- NEW BOILER EXHAUST DUCTWORK THROUGH ROOF.
- NEW BOILER AIR INTAKE DUCTWORK THROUGH ROOF. PROVIDE NEW ROOF PENETRATION. ELBOW AIR INTAKE

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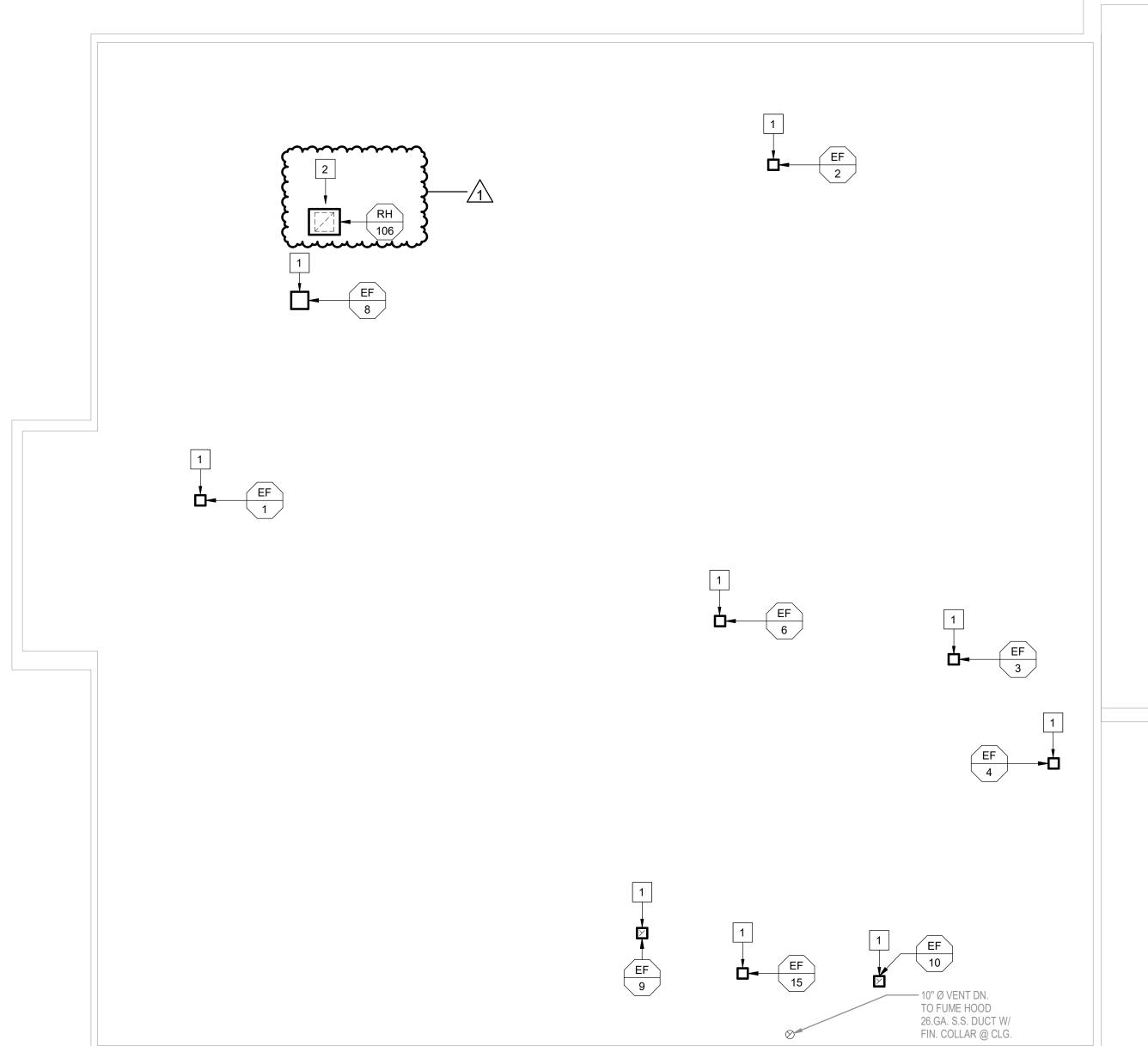
State of Indiana PWP Contract Number: 81780 Drawing Date: 08-16-2024 Designer: SJH

Drawing Scale:
AS NOTED

Drafter: SJH DAPW Approval:

Client Approval:

Drawing Number: M120



1 MECHANICAL ROOF PLAN
1/8" = 1'-0"

- PROVIDE WITH INVERTER-READY OR INVERTER-DUTY MOTOR FOR VARIABLE SPEED OPERATION. PROVIDE WITH VFD AND DISCONNECT.
  FILTERS FOR FAN TOTAL PRESSURE CALCULATIONS SHALL BE EVALUATED AT MID LIFE CONDITION PER THE FILTER MANUFACTURER RATINGS.
  UNIT STATIC PRESSURE CAPABILITY SHALL INCLUDE SCHEDULED EXTERNAL STATIC PRESSURE PLUS ALL SCHEDULED INTERNAL PRESSURE DROPS, INCLUDE VALVE FOR WETTED COILS AND DIRTY FILTERS.

M	ARK						MAY				SUPPLY	FAN				FIL	TERS	MAX SC	JND POW	R RATING	(DISCHAR	GE / INLET	/ RADIAT	ED)	ELEC	TRICAL DAT	
		MER	MODEL	LOCATION	MIN. OA	MAX SIZE	MAX OPERATING	TOTAL	STATIC P	RESSURE			MAX FAN	MOTOR	MIN. FAN	F	PRE			OCTAV	E BAND (H	<u>Z</u> )					NOTES
ID	#	Wil IX.	MODEL	LOGATION	(CFM)	(LxWxH)	WEIGHT (LBS)	AIRFLOW (CFM)	TSP (IN WC)	ESP (IN WC)	TYPE	DRIVE	SPEED (RPM)	SPEED (RPM)	EFF. (%)	TYPE	DESIGN APD (IN WC)	63 1	5 25	500	1000	2000	4000	8000	FLA	VOLTS PHA	SE NOTE:
AHU	1	CARRIER	AERO 39MN21W	160 MECH ROOM	3000	148"x92"x61"	3031	10000	3.68	2.00	PLENUM	DIRECT	1747	1200	63	MERV-8	0.9	82 8	l 9 <sup>2</sup>	82	74	73	72	69	15.4	460 3	1, 2, ?
AHU	3	CARRIER	AERO 39MN06W	160 MECH ROOM	600	130"x59"x37"	1342	2000	3.02	2.00	PLENUM	DIRECT	2592	1800	58	MERV-8	0.75	81 7	5 75	77	73	69	71	62	4.6	460 3	1, 2, 3

# AIR HANDLING UNIT SCHEDULE 2

PROVIDE WITH INVERTER-READY OR INVERTER-DUTY MOTOR FOR VARIABLE SPEED OPERATION. PROVIDE WITH VFD AND DISCONNECT.

FILTERS FOR FAN TOTAL PRESSURE CALCULATIONS SHALL BE EVALUATED AT MID LIFE CONDITION PER THE FILTER MANUFACTURER RATINGS. UNIT STATIC PRESSURE CAPABILITY SHALL INCLUDE SCHEDULED EXTERNAL STATIC PRESSURE PLUS ALL SCHEDULED INTERNAL PRESSURE DROPS, INCLUDE VALVE FOR WETTED COILS AND DIRTY FILTERS.

MA	RK					HEATING HOT	WATER COIL									DIRECT EXP	ANSION COIL					
ID	#	CAPACITY	MAX FACE	EAT (°E)	LAT (°F)	WATER FLOW	EWT (°F)	LWT (°F)	ROWS	MAX	( PD	CAPACI	Y (MBH)	MAX FACE	E	AT	LAT (°F)	REFRIGERANT		MAX PD AIR	CONDENSING	NOTES
	<b>"</b>	(MBH)	VELC. (FPM)	LAI (I)	LAI (I)	(GPM)			ROVIS	AIR (IN WC)	WATER (FT)	SENS.	TOTAL	VELC. (FPM)	DB (°F)	WB (°F)	LAI (I)	TYPE	CIRCUITS	(IN WC)	UNIT ID#	
AHU	1	280.87	466	44.6	69.3	26	140	120	1	0.2	1.9	275.24	435.15	466	78.9	67.3	53.7	R-410A	2	0.82	CU-1	1, 2, 3
AHU	3	42.2	339	44.6	63.1	2.7	140	108	1	0.12	0.1	48.24	77.0	339	74.3	64.5	52.2	R-410A	2	0.34	CU-3	1, 2, 3

# **FAN SCHEDULE**

PROVIDE WITH MOTORIZED BACKDRAFT DAMPER.
PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH.

- PROVIDE GALVANIZED STEEL BIRDSCREEN.
- BACKWARD INCLINED UTILITY SET EXHAUST FAN WITH MOTOR COVER AND SLIP FIT INLET AND OUTLET CONNECTIONS.

PROVIDE WITH VARI-GREEN CONTROL DIAL ON EXTERIOR OF FAN HOUSING, MOUNTED AND WIRED.

М	ARK													MAX SC	UND PO	WER RA	ATING (I	NLET / O	UTLET)			ELE	CTRICAL I	DATA	
I	Ī.,	MFR.	MODEL	TYPE	LOCATION	SERVICE	DRIVE	AIRFLOW (CFM)	ESP (IN WC)	MAX FAN	MOTOR SPEED (RPM)	MIN STATIC				ОСТ			,		MAX WEIGHT				NOTES
ا ا	#							(CFIVI)	, ,	SPEED (RPM)	SPEED (RPIVI)	EFF (%)	63	125	250	500	1000	2000	4000	8000	(LBS)	HP	VOLTS	PHASE	
EF	1	GREENHECK	G-095-VG	DOWNBLAST	ROOF	102 WOMENS TOILET & 103 MENS TOILET	DIRECT	326	0.25	1012	1725	41	73	65	58	51	46	45	37	31	33	1/6	120	1	1, 2, 3
EF	2	GREENHECK	G-097-C	DOWNBLAST	ROOF	113 TOILET	DIRECT	100	0.25	860	860	26	61	57	57	49	45	37	32	29	44	1/8	120	1	1, 2, 3
EF	3	GREENHECK	G-095-VG	DOWNBLAST	ROOF	128 DETENTION ROOM & 129 DETENTION ROOM	DIRECT	330	0.25	1015	1725	41	73	66	58	51	46	45	38	31	33	1/6	120	1	1, 2, 3
EF	4	GREENHECK	G-095-VG	DOWNBLAST	ROOF	132 WOMENS TOILET, 133 CUSTODIAN, & 134 MENS TOILET	DIRECT	234	0.25	962	1725	38	72	63	56	49	44	41	34	28	33	1/6	120	1	1, 2, 3
EF	5	GREENHECK	G-095-VG	DOWNBLAST	ROOF	163 SHOWER ROOM	DIRECT	200	0.25	951	1725	36	72	63	55	48	44	40	34	27	33	1/6	120	1	1, 2, 3
EF	6	GREENHECK	G-095-VG	DOWNBLAST	ROOF	150 SQUAD ROOM & 153 EVIDENCE ROOM	DIRECT	388	0.25	1061	1725	41	74	67	60	53	48	47	40	33	33	1/6	120	1	1, 2, 3
EF	7	GREENHECK	G-095-VG	DOWNBLAST	ROOF	162 STORAGE & 167 STORAGE	DIRECT	616	0.25	1283	1725	38	76	71	66	57	52	53	47	40	33	1/6	120	1	1, 2, 3
EF	8	GREENHECK	G-140-VG	DOWNBLAST	ROOF	106 TRAINING ROOM	DIRECT	2500	0.25	1440	1725	17	82	79	83	75	69	69	64	58	63	1	460	3	1, 2, 3
EF	9	GREENHECK	G-097-C	DOWNBLAST	ROOF	140 PRINTING	DIRECT	100	0.25	860	860	26	61	57	57	49	45	37	32	29	44	1/8	120	1	1, 2, 3
EF	10	GREENHECK	G-095-VG	DOWNBLAST	ROOF	137 LABORATORY	DIRECT	360	0.25	1038	1725	41	74	67	59	52	47	46	39	32	33	1/6	120	1	1, 2, 3
EF	11	GREENHECK	G-095-VG	DOWNBLAST	ROOF	165 EXERCISE ROOM	DIRECT	460	0.25	1125	1725	41	75	68	62	54	49	49	42	35	33	1/6	120	1	1, 2, 3
EF	12	GREENHECK	G-120-VG	DOWNBLAST	ROOF	158 GARAGE	DIRECT	1950	0.25	1701	1725	19	74	76	85	78	68	71	65	61	49	1/2	120	1	1, 2, 3
EF	13	GREENHECK	G-120-VG	DOWNBLAST	ROOF	158 GARAGE	DIRECT	1950	0.25	1701	1725	19	74	76	85	78	68	71	65	61	49	1/2	120	1	1, 2, 3
EF	14	GREENHECK	USF-12	UTILITY SET	160 MECH ROOM	158 GARAGE	DIRECT	1800	1.5	2205	1770	56	93	91	82	91	76	75	70	62	202	1	460	3	1, 2, 3, 4
EF	15	GREENHECK	G-095-VG	DOWNBLAST	ROOF	139 DEVELOPING	DIRECT	225	0.25	959	1725	38	72	63	56	49	44	41	34	28	33	1/6	120	1	1, 2, 3
RF	1_	GREENHECK	SQ-20-VG	INLINE CENTRIFUGAL	160 MECH ROOM	AHU-1	DIRECT	7000	2.0	1522	1550	62	80	78	92	86	82	78	77	72	206	5	460	3	2, 5

						BOILER SCH	HEDULE	Ξ							
NOTES 1. 2. 3.	PROVI PROVI	DE WITH FLUE CONDEN DE WITH CONDENSATE DE WITH VARIABLE SPE	NEUTRALIZATI	ON KIT.	S PRIMARY BOILER PL	JMP.									
MA	RK	MFR.	MODEL	TYPE	LOCATION	SERVICE	NOM.	CAPACI	TY (MBH)	DESIGN WATER FLOW	MAX WATER	WATER TEMP (°F)	1	TRICAL ATA	NOTES
ID	#	IVIFK.	IVIODEL	TIPE	LOCATION	SERVICE	BOILER HP	GROSS INPUT	GROSS OUTPUT	(GPM)	PD (FT)	SUPPLY	VOLTS	PHASE	NOTES
В	1	LOCHINVAR	FBN-1001	CONDENSING	160 MECH ROOM	HEATING HOT WATER	28	999	961	100	8.3	140	120	1	1, 2, 3
В	2	LOCHINVAR	FBN-1001	CONDENSING	160 MECH ROOM	HEATING HOT WATER	28	999	961	100	8.3	140	120	1	1, 2, 3

														<u>/ I</u>	7			
							CONDE	ENSING	UNIT S	SCHE	EDULE							
NOTES 1. 2.	C				/ALVE (BY RAWAL DEVICES S, AND DISCONNECT.	s) ON LEAD CIRC	CUIT.											
MAR	RK						COOLING	OA TEMP	COMPRE	SSOR	AIR COOLED CONDENSER				ELECTRICAL D	ATA		
ID	#	MFR.	MODEL	TYPE	LOCATION	SERVICE	CAP (MBH)	DESIGN AMB (°F)	QTY	TONS	QTY FANS	UNIT EER	REFRIGERANT	AMPS (MCA)	AMPS (MOCP)	VOLTS	PHASE	NOTES
CU	1	CARRIER	38APD	AIR COOLED	SOUTH SIDE EXTERIOR	AHU-1	480	95	2	20	3	11.8	R-410A	82.4	100	460	3	1, 2
CU	3	CARRIER	38AUZ	AIR COOLED	SOUTH SIDE EXTERIOR	AHU-3	72	95	1	6	2	12	R-410A	15	20	460	3	1, 2

					PUM	IP SCHED	ULE								
NOTE:	 OVIDE WITH INVERTEE	R-READY OR INV	FRTER-DUTY N	MOTOR FOR VARIABLE	SPEED OPERATION										
MAI		(TEAD) OITHW		We return out white the	or LEB or Livinois.			MIN INLET /	MAY NEON			ELEC	CTRICAL	DATA	
MAI	MFR.	MODEL	TYPE	LOCATION	SERVICE	WATER FLOW (GPM)	TDH (FT)	MIN INLET / OUTLET SIZES	MAX NPSH REQD (FT)	MIN EFF (%)	MOTOR SPEED (RPM)	ш	CTRICAL VOLTS		NOTES
					SERVICE			<b>OUTLET SIZES</b>	DEOD (ET)		SDEED (DDM)	ш	VOL TO		NOTES

					EXPANSIO	N TANK S	CHEDUL	E				
<u>NOTE</u> 1.		ADDER TYPE EXPANSIO	ON TANK.									
MA	RK							CAPACI	TY (GAL)	MINIMUM	DESIGN	
		MFR.	MODEL	LOCATION	SERVICE	NOMINAL SIZE (DIAXLGTH)	ORIENTATION	REQUIRED TANK	REQUIRED ACCEPTANCE	REQUIRED FILL	OPERATING PRESSURE	NOTES
ID	#							VOLUME	VOLUME	(. 0.0)	(PSIG)	
ET	1	BELL & GOSSETT	B130	160 MECH ROOM	HEATING HOT WATER	20"x37"	VERTICAL	28.81	22.1	12	125	1

AIR SEPARATOR SCHEDULE												
<u>NOT</u>		PROVDE WITH HIGH CA	NPACITY, AUTO	MATIC AIR VENT.								
	\DK			7./25	1.00471011	050)//05	EL OWY (CDM)	MAX WATER	NOTEO			
MA ID	MFR.   MODEL   TYPE   LOCATION   SERVICE   FLOW (GPM)   THE NOTES											

Introba

POS INDIANA STATE

STATE OF INDIANA
DEPARTMENT OF ADMINISTRATION
PUBLIC WORKS DIVISION

 
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Drawing Date: 08-16-2024 Drafter: SJH Drawing Scale:
AS NOTED DAPW Approval:

Client Approval:

# AIR TERMINAL UNIT SCHEDULE

- MAX TOTAL PRESSURE DROP SHALL INCLUDE BOX AND REHEAT COIL (WHERE APPLICABLE).
  PROVIDE THE NUMBER OF COIL ROWS AS REQUIRED TO MEET SCHEDULED PERFORMANCE AND STILL FALL WITHIN REHEAT COIL PRESSURE DROP LIMITATION.
  PROVIDE WITH OPTIONAL BOTTOM ACCESS DOOR PER THE SPECIFICATIONS.
  OFF-HOURS SPACE OCCUPANCY OVERRIDE IS REQUIRED.
  SPACE OCCUPANCY SENSOR IS REQUIRED.

MA	RK			ROUND DUCT INLET SIZE (IN)	PRIMARY AIRFLOW (CFM)		DESIGN INLET STATIC	OUTLET DUCT	AUXILIARY HOT WATER HEATING COIL						
ID	#	MFR.	MODEL		COOLING MAX	MIN	PRESSURE (IN WC)	SIZE WxD (IN)	AIRFLOW (CFM)	CAPACITY (MBH)	EAT (°F)	LAT (°F)	EWT (°F)	FLOW (GPM)	NOTES
ATU	1	TITUS	DESV	4	170	70	0.5"	12x8	70	2.7	55	90	140	0.3	
ATU	2	TITUS	DESV	5	325	100	0.5"	12x8	100	3.8	55	90	140	0.4	
ATU	3	TITUS	DESV	8	710	180	0.5"	12x10	180	6.8	55	90	140	0.7	
ATU	4	TITUS	DESV	6	430	145	0.5"	12x8	145	5.5	55	90	140	0.6	
ATU	5	TITUS	DESV	8	670	170	0.5"	12x10	170	6.5	55	90	140	0.6	
ATU	6	TITUS	DESV	6	460	140	0.5"	12x8	140	5.3	55	90	140	0.5	
ATU	7	TITUS	DESV	9	1110	335	0.5"	14x12 1/2	335	12.7	55	90	140	1.3	
ATU	8	TITUS	DESV	9	940	305	0.5"	14x12 1/2	305	11.6	55	90	140	1.2	
ATU	9	TITUS	DESV	8	650	165	0.5"	12x10	165	6.3	55	90	140	0.6	
ATU	10	TITUS	DESV	8	720	220	0.5"	12x10	220	8.4	55	90	140	0.8	
ATU	11	TITUS	DESV	8	715	180	0.5"	12x10	180	6.8	55	90	140	0.7	
ATU	12	TITUS	DESV	9	985	250	0.5"	14x12 1/2	250	9.5	55	90	140	0.9	

	NON-POWERED ROOF VENTILATOR SCHEDULE												
NOTES:	_	IDF WITH GAI VA	NIZED STEFL M	IFSH INSECT AN	ID BIRDSCREEN	L							
PROVIDE WITH GALVANIZED STEEL MESH INSECT AND BIRDSCREEN.      MARK      CONSTRUCTION													
MA	RK							CONST	RUCTION				
		MFR.	MODEL	TYPE	LOCATION	SERVICE	THROA			OVERALL	NOTES		
ID	ARK #	MFR.	MODEL	TYPE	LOCATION	SERVICE	THROA LENGTH		RUCTION MATERIAL	OVERALL SIZE (LxWxH)	NOTES		
		MFR.	MODEL	TYPE	LOCATION	SERVICE AHU-1, AHU-2 & AHU-3		T SIZE			NOTES		
		MFR. GREENHECK	MODEL FGI	TYPE INTAKE RELIEF	LOCATION  ROOF ROOF	SERVICE AHU-1, AHU-2 & AHU-3 106 TRAINING ROOM		T SIZE			NOTES		

	AIR DEVICE SCHEDULE														
	NOTES:  1. PROVIDE WITH ACCESSORIES AS LISTED IN THE SPECIFICATIONS.														
2.															
MA	RK	1			I							MAX	MAX CFM @		
		MFR.	MODEL	TYPE	LOCATION	SERVICE	NECK	FACE SIZE	MATERIAL	FINISH	MAX TPD	NOISE	LISTED	MIN THROW	NOTES
ID	#						SIZE (IN)	(IN x IN)			(IN WC)	(NC)	CONDITIONS	(FT) 50 FPM	
S	1	TITUS	OMNI	SQUARE PLAQUE	CEILING	SUPPLY AIR	6	24x24	STEEL	WHITE	0.1	30	235	11	
S	2	TITUS	OMNI	SQUARE PLAQUE	CEILING	SUPPLY AIR	8	24x24	STEEL	WHITE	0.1	30	420	14	
S	3	TITUS	OMNI	SQUARE PLAQUE	CEILING	SUPPLY AIR	10	24x24	STEEL	WHITE	0.1	30	545	16	
S	4	TITUS	301RL	LOUVERED FACE	WALL	SUPPLY AIR	12x6	14x8	STEEL	WHITE	0.1	30	330	26	
S	5	TITUS	301RL	LOUVERED FACE	WALL	SUPPLY AIR	18x5	20x7	STEEL	WHITE	0.1	30	505	32	
	•	•	•			•							•		
R	1	TITUS	PAR	SQUARE PLAQUE	CEILING	RETURN AIR	10x10	12x12	STEEL	WHITE	0.1	30	350	-	
R	2	TITUS	PAR	SQUARE PLAQUE	CEILING	RETURN AIR	12x12	24x24	STEEL	WHITE	0.1	30	800	-	
R	3	TITUS	PAR	SQUARE PLAQUE	CEILING	RETURN AIR	22x22	24x24	STEEL	WHITE	0.1	30	2015	-	
R	4	TITUS	350RL	LOUVERED FACE	WALL	RETURN AIR	12x6	14x8	STEEL	WHITE	0.1	30	330	-	
		•													
Е	1	TITUS	PAR	SQUARE PLAQUE	CEILING	EXHAUST AIR	10X10	12x12	STEEL	WHITE	0.1	30	350	-	
Е	2	TITUS	PAR	SQUARE PLAQUE	CEILING	EXHAUST AIR	22x22	24x24	STEEL	WHITE	0.1	30	800	-	
Е	3	TITUS	350RL	LOUVERED FACE	WALL	EXHAUST AIR	14x2	16x4	STEEL	WHITE	0.1	30	400	-	



INDIANA STATE POLICE POST



STATE OF INDIANA
DEPARTMENT OF ADMINISTRATION
PUBLIC WORKS DIVISION
ROOM W467, INDIANA GOVERNMENT CENTER SOUTH
402 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA 46204

 
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 Addendum 1
 10/18/2024

 NO
 REVISION
 DATE
 Introba Project Number:

2035.0012551.000 Public Works Project Number: 10011020-24-018-C1

State of Indiana PWP Contract Number: Drawing Date: 08-16-2024 Designer: SJH

Drafter: SJH Drawing Scale:
AS NOTED

DAPW Approval:

Client Approval:

Drawing Number: M610