# ST. MARY'S CHAPEL HISTORIC ST. MARY'S CITY COMMISSION DESIGN AND INSTALL INTERPRETIVE ELEMENTS OF CHAPEL EXHIBIT AND ADD A/C PROJECT NO: SM-023-230-002

ARCHITECTURAL CONSULTANT

#### WHITNEY, BAILEY, COX, MAGNANI, LLC.

300 EAST JOPPA ROAD, SUITE 200 BALTIMORE, MARYLAND 21286 PHONE: (410) 512-4500 FAX: (410) 324-4100

MECHANICAL FLECTRICAL PLUMBING ENGINEERING CONSULTAN

#### HENRY ADAMS

SOUBAL TRANSPERAVENILE TOWSON, MARYLAND 21204 PHONE: (410) 296-6500







LOCATION MAP 16721 POINT LOOKOUT RD. ST, MARYS CITY, MD 20686 ST. MARYS COUNTY, MARYLAND

#### **DEPARTMENT OF GENERAL SERVICES**

ATIF CHAUDHRY, SECRETARY **ROOM 1405** 301 WEST PRESTON STREET BALTIMORE, MARYLAND 21201

DRAWING SHELT WIDEX						
DWG NO.	SHEET NO	SHEET TITLE				
GENERAL						
Ç101	1	COVERSHEET				
ANCHILCT	IRAL					
AI01	- 2	DVERALE FLOOR PLAN				
A301	3	stetions				
A302	- 4	SECTIONS AND DETAILS				
A501	- 5	ALTAR DETAILS				
A502	- 6	BENCH DETAILS				
A503	7	RAIUNG DETAILS				
MI CHANCA	4 .					
MODS	- 8	MECHANICA, COVER SHEET				
M101	0	FLOOR PLAN - DUCTWORK				
M201	10	FLOOR PLAN - MECHANICAL PIPEIG				
M401	11	MECHANICA, SECTIONS				
M501	1.2	MECHANICA, DETAILS				
M801	13	MECHANICAL SCHEDULES AND CONTROLS				
ELECTRICAL						
£003	14	ELECTRICAL CUIVER SHEET				
£101	15	FLOOR PLANS - POWER - NEW WORK				
F103	16	ELEVATIONS - POWER - NEW WORK				
E801	1.7	ELECTRICAL SCHEDULES AND DETAILS				

218 INTERNATIONAL BUILDING CODE (IBC 2018 NATIONAL FIRE PROTECTION ASSOCIATION (MFPA), MFPA 1 (FIRE CODE) & NFPA 101 (LIFE SAFETY CODE) 2018 NATIONAL FIRE PROTECTION ASSOCIATION (NEPA), 54 FUEL GAS CODE 2211 SEDMENT CONTROL ORDINANCE 2015 NATIONAL STANDARD PLUMBING CODE (NSPC) CODE EVALUATION BASED OF 2016 INTERNATIONAL PLUMBING CODE (IPC) 2011 NATIONAL ELECTRICAL CODE INECL MARYLAND ACCESSIBILITY CODE: NAC 2312 COMAR 05.02.02

#### **BOARD OF PUBLIC WORKS**

WES MOORE, GOVERNOR BROOKE LIERMAN, COMPTROLLER DERECK DAVIS TREASURER

#### **USING AGENCY**

PROJECT MANAGER

CHIEF OF PM&D

USING AÆENCY APPROVAL

**DGS APPROVAL** 

harles Davidson 3/18/24

DATE

-PROJECT SITE

Historic St. Mary's City Commission 18751 Hogaboom Lane St Marys City, MD 20686

ARCHITECTURAL / STRUCTURAL / CIVIL CONSULTANTS:

#### WHITNEY, BAILEY, COX, MAGNANI, LLC/ WBCM, LLC.

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HENRY ADAMS

MICHIGANI PARTIE A PARAGRA (SERVICE)



LICENSE#, 15613 EXPIRATION, 11/26/20

ST. MARY'S CHAPEL
DESIGN AND INSTALL INTERPRETIVE LEMENTS OF CHAPEL EXHIBIT AND ADD A PROJECT NO: SM-023-230-002 16721 POINT LOOKOUT RD.,

ST. MARYS CITY, MD 20686 ST. MARYS COUNTY, MARYLAND USING AGENCY APPROVAL

DGS APPROVAL

	03/15/24	ISSUED FOR BID
MARK	DATE	DESCRIPTION

CAD DWG FILE: -

DRAWN BY: DAKOTA ASH

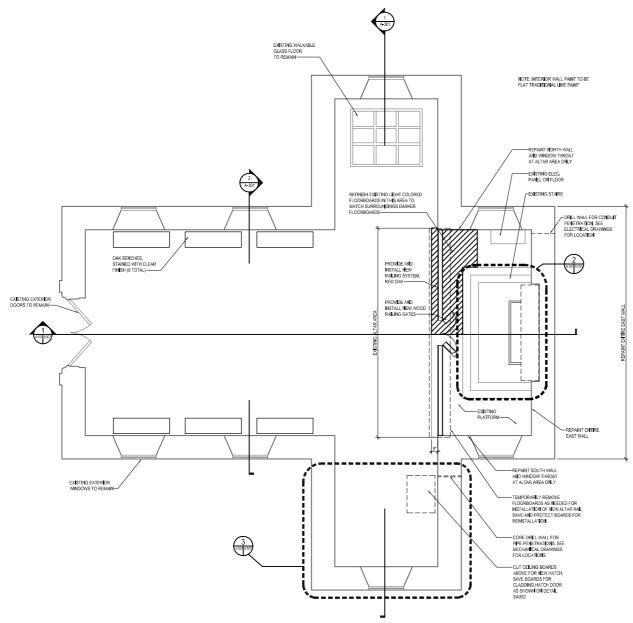
PROJECT No.: SM-023-230-002

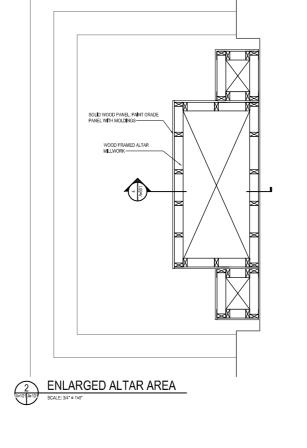
DATE: 03/15/2024

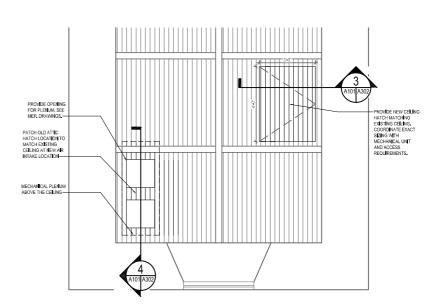
COVER SHEET

G101

SHEET 01 OF 17







3 REFLECTED CEILING PLAN DETAIL

3 SCALE: 102" = 149"

ARCHITECTURAL/STRUCTURAL/CIVIL CONSULTANTS:
WHITNEY RAILEY

# WHITNEY, BAILEY, COX, MAGNANI,LLC/ WBCM, LLC.

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# HENRY ADAMS

Consulting Engineers

MECHANICAL ELECTRICAL & PLUMBING ENGINEERS



HERE CERTIFY THAT THESE DRAWINGS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE#: 15613

EXPIRATION: 11/26/2024

STRAND NICEDAL INTERD

DESIGN AND INSTALL INTERPRETIVE
ELEMENTS OF CHAPEL EXHIBIT AND ADD A/C
PROJECT NO: SM-023-230-002
16721 POINT LOOKOUT RD.,
ST. MARYS CITY, MD 20686
ST. MARYS COUNTY, MARYLAND

USING AGENCY APPROVAL

Name

DGS APPROVAL

 Project Manager
 Date

 Chief of PM&D
 Date

 03/15/24
 ISSUED FOR BID

 MARK
 DATE
 DESCRIPTION

 CAD DWG FILE:

CAD DWG TILL. -

DRAWN BY: DAKOTA ASH

CHK'D BY:

PROJECT No.: SM-023-230-002

DATE: 03/15/2024

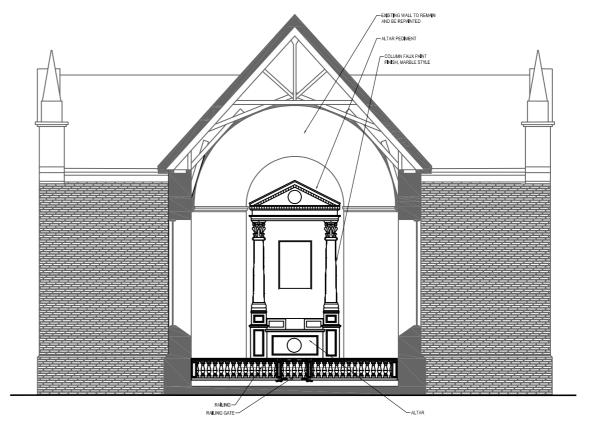
FLOOR PLANS

A101

SHEET 02 OF 17











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16721 POINT LOOKKUT RD.,
ST. MARYS CITY, MD 20686 ST. MARYS CITY, MD 20686 ST. MARYS COUNTY, MARYLAND

USING AGENCY APPROVAL

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Chief of PM&D

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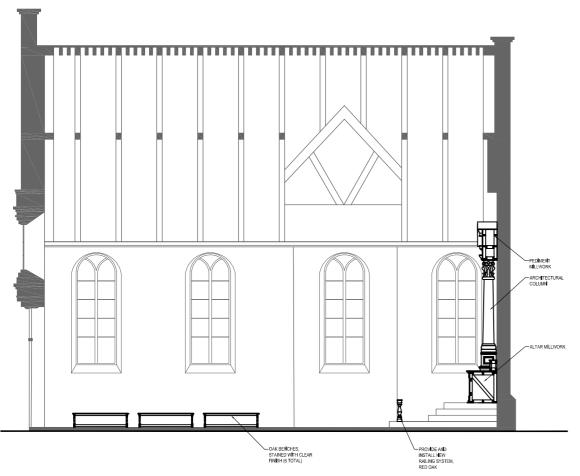
PROJECT No.: SM-023-230-002

DATE: 03/15/2024

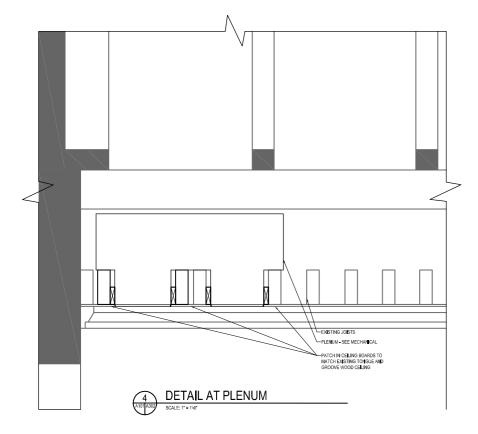
SECTIONS

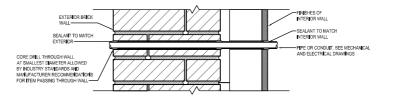
A301

SHEET 03 OF 17

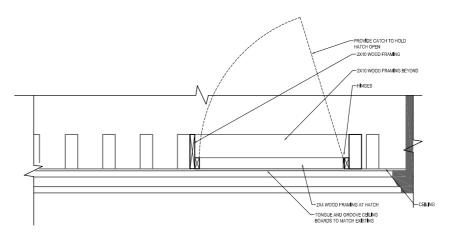














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USING AGENCY APPROVAL

DGS APPROVAL

Chief of PM&D 03/15/24 ISSUED FOR BID MARK DATE DESCRIPTION CAD DWG FILE: -

DRAWN BY: DAKOTA ASH

CHK'D BY:

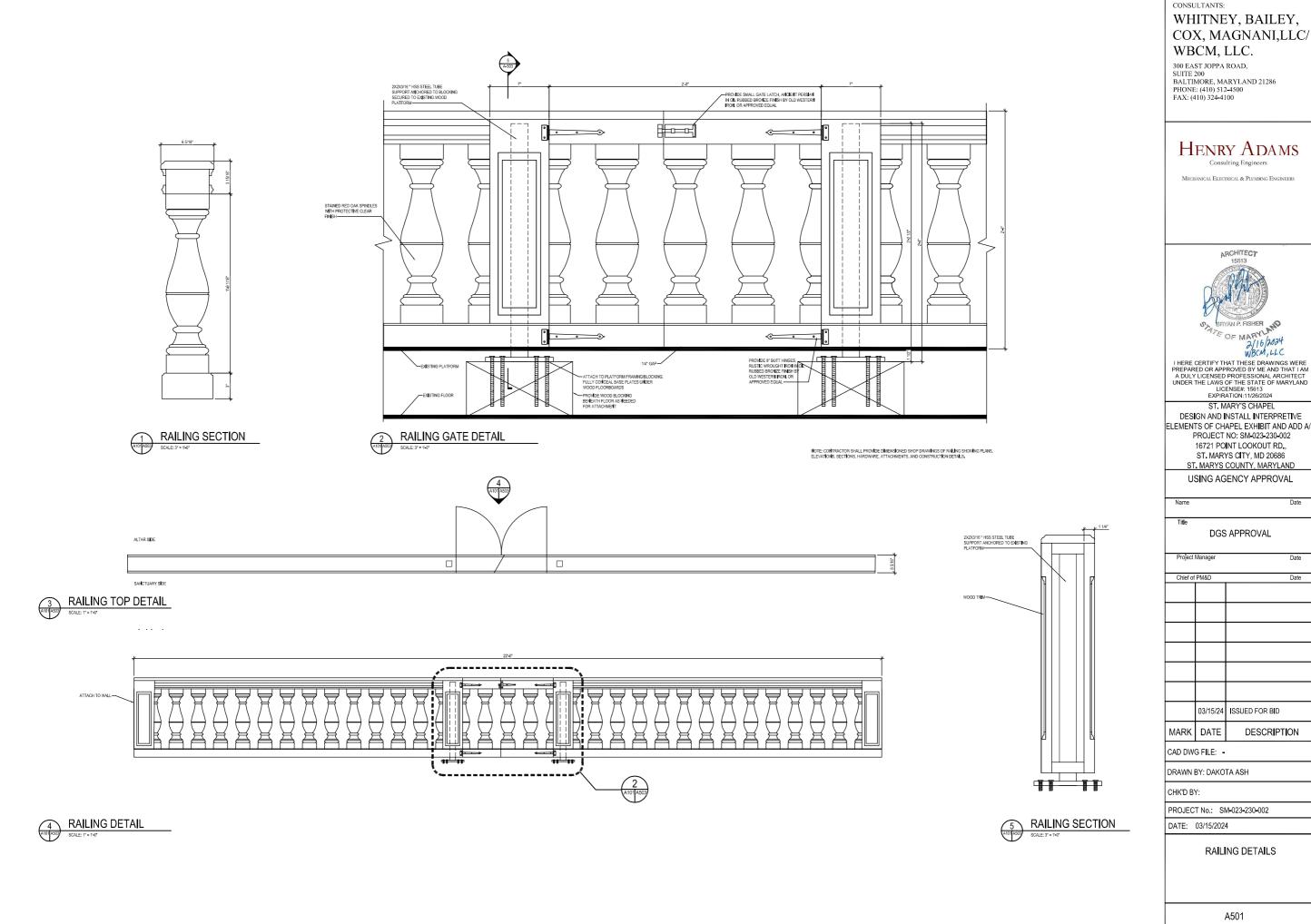
PROJECT No.: SM-023-230-002

DATE: 03/15/2024

SECTION AND DETAILS

A302

SHEET 04 OF 17

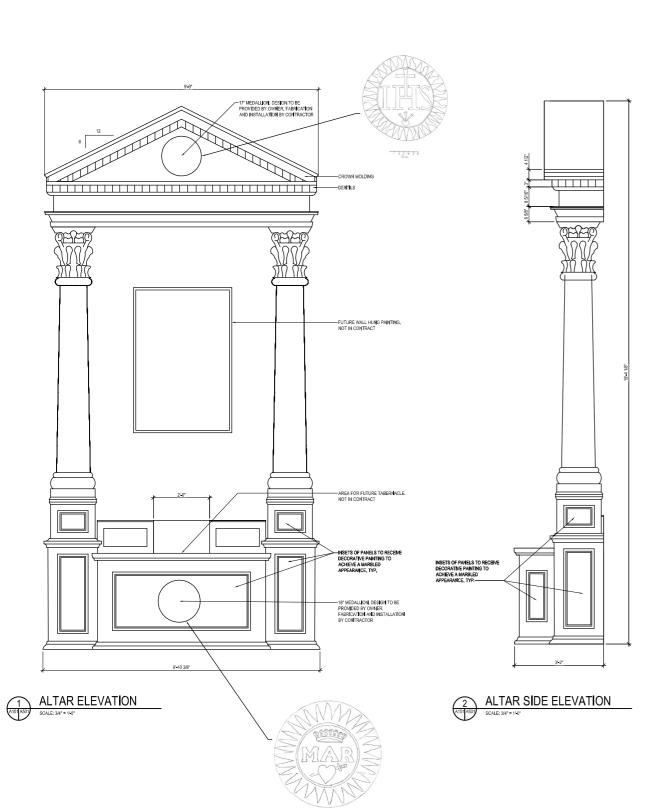


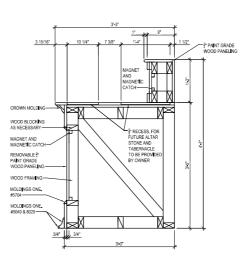
ARCHITECTURAL / STRUCTURAL / CIVIL CONSULTANTS:

# COX, MAGNANI,LLC/

DESIGN AND INSTALL INTERPRETIVE ELEMENTS OF CHAPEL EXHIBIT AND ADD A/C PROJECT NO: SM-023-230-002

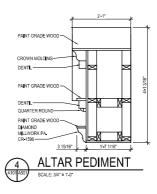
SHEET 05 OF 18

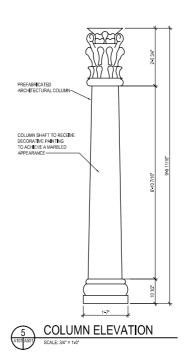


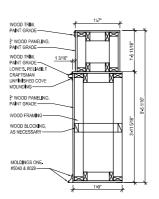




NOTES: 1, ALL MILLWORK THIS SHEET TO BE PLAIN PAINTED WITH SAME, LOSS FINISH URESS OTHERWISE NOTED, COLORIS TO BE DETERMINED 2. PAINTING SHALL BE PERFORMED BY HAID BRUISHING SO AS TO CREATE AH AGE PAPERAMICE. JACONTRACTOR SHALL PROVIDE DIMENSIONED SHOP DRAWNINGS OF ALTAR SHOWING PLAIS, ELEVITORS SECTIONS, HARDWARE, ATTACHMENTS, AND CONSTRUCTION DETAILS.









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EXPIRATION: 1/26/2/24

ST. MARY'S CHAPEL

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PROJECT NO: SM-023-230-002
16721 POINT LOOKOUT RD.,
ST. MARYS CITY, MD 20686
ST. MARYS COUNTY, MARYLAND

USING AGENCY APPROVAL

DGS APPROVAL

Project Manager Date

Chief of PM&D Date

03/15/24 ISSUED FOR BID

DESCRIPTION

CAD DWG FILE: -

DRAWN BY: DAKOTA ASH

CHK'D BY:

MARK DATE

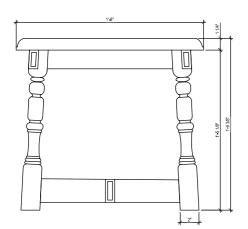
PROJECT No.: SM-023-230-002

DATE: 03/15/2024

DETAILS

A502

SHEET 06 OF 17

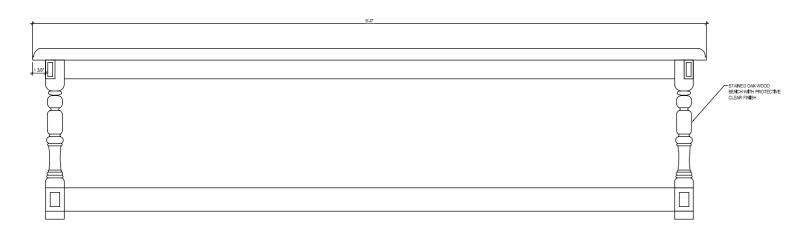


NOTES: 1, WOOD BENCH ASSEMBLY TO HAVE NO VISIBLE FASTENERS, ASSEMBLY TO UTILIZED WOOD JONEWRY TO THE GREATEST EXTENT.

2, CONTRACTOR SHALL FROMDE DIMENSIONED SHOP PROVINGES OF YEAR OF SHOP MAY BE ASSEMBLY SHOWNED FAMILY AND CONTRACTION SECTIONS. HAVE WARE, ATTACHMENTS, AND CONTRACTION SETTING.

BENCH SIDE ELEVATION

AND ASSESS SCALE: 3" = 1"-2"



3 BENCH ELEVATION

SCALE: 3' = 1'-0'

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USING AGENCY APPROVAL

DGS APPROVAL

Chief of	PM&D	Date
	03/15/24	ISSUED FOR BID
MARK	DATE	DESCRIPTION
CAD DW	G FILE: -	

DRAWN BY: DAKOTA ASH

CHK'D BY:

PROJECT No.: SM-023-230-002

DATE: 03/15/2024

BENCH DETAILS

A503

SHEET 07 OF 17

MECHANICAL LEGEND						
SYMBOL	DESCRIPTION					
D	CONDENSATE DRAIN					
	VOLUME DAMPER					
XXXXX	FLEXIBLE CONNECTION					
T	THERMOSTAT					
$\boxtimes$	OUTDOOR AIR OR SUPPLY AIR DUCT					
	RETURN AIR DUCT					
1 M101	CALLOUT DESIGNATION TOP - VIEW REFERENCE BOTTOM - REFERENCED DRAWING					
—	REFRIGERANT LIQUID					
—RS	REFRIGERANT SUCTION					

	MECHANICAL A (APPLICABLE TO ALL N		
AFF	ABOVE FINISHED FLOOR	L	LENGTH
APD	AIR PRESSURE DROP	LAT	LEAVING AIR TEMPERATURE
APPROX	APPROXIMATELY	LFT	LEAVING FLUID TEMPERATURE
ATC	AUTOMATIC TEMPERATURE CONTROLS	LLS	LIQUID LEVEL SENSOR
		LWT	LEAVING WATER TEMPERATURE
BAS BDD	BUILDING AUTOMATION SYSTEM BAROMETRIC BACKDRAFT DAMPER	I M	MECHANICAL
BHP	BRAKE HORSEPOWER	MAX	MAXIMUM
BTU	BRITISH THERMAL UNITS	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
DIU	DRITION THERMAL UNITS	MD	MECHANICAL DEMOLITION
CC	COOLING COIL	MIN	MINIMUM
CFM	CUBIC FEET PER MINUTE	MOD	MOTOR OPERATED DAMPER
CLG	COOLING	MOD	MOTOR OFERATED DAMFER
CS	CURRENT SENSOR	l N	NORTH
CX	CONNECT TO EXISTING	NC NC	NORMALLY CLOSED
U.X	CONNECT TO EXISTING	NO NO	NUMBER
D	DAMPER / DEEP / DEPTH / DIAMETER / DIFFUSER /	NOM	NOMINAL
U	DRAIN		
DD		NTS	NOT TO SCALE
DB	DRY BULB	l	CUITO COD AND
DIA	DIAMETER	OA	OUTDOOR AIR
DN	DOWN	OC	ON CENTER
DPS	DIFFERENTIAL PRESSURE SWITCH	P	PRESSURE
	SUTFORMS AND TEMPERATURE	1 '	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PD	PRESSURE SWITCH
EFT	ENTERING FLUID TEMPERATURE	PH	PHASE
ELEC	ELECTRICAL	I .	DADEG
ESP	EXTERNAL STATIC PRESSURE	R	RADIUS
EWT	ENTERING WATER TEMPERATURE	RA	RETURN AIR
EX	EXISTING	RHC	REHEAT COIL
F		RL	REFRIGERANT LIQUID
	FAHRENHEIT	RPM	ROTATIONS PER MINUTE
FC	FLEX CONNECTION	RS	REFRIGERANT SUCTION
FCU	FAN COIL UNIT	RX	REMOVE EXISTING
FPD	FLUID PRESSURE DROP	l	
FT	FEET/FOOT	SA	SUPPLY AIR
FV	FACE VELOCITY	SENS	SENSIBLE
		SEER	SEASONAL ENERGY EFFICIENCY RATIO
G	GRILLE	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	l _	
		T	THERMOSTAT / TEMPERATURE SENSOR
Н	HEIGHT / HIGH / HUMIDISTAT / HUMIDITY SENSOR	TSP	TOTAL STATIC PRESSURE
HC	HEATING COIL	TYP	TYPICAL
HP	HORSEPOWER	1	
HPU	HEAT PUMP UNIT	UMD	UNIVERSITY OF MARYLAND
HR	HEATING WATER RETURN	ı	
HS	HEATING WATER SUPPLY	V	VALVE / VOLTS
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	VD	VOLUME DAMPER
HZ	HERTZ	VIF	VERIFY IN FIELD
IN	INCH	l w	WIDE / WIDTH
IIV.	INCH	WB WB	WIDE/WIDTH WETRUR
		WG WG	WATER GAGE
		WPD	
		WPU	WATER PRESSURE DROP
		I	

MECHANICAL ADDDEVIATIONS

# MECHANICAL GENERAL NOTES (APPLICABLE TO ALL MECHANICAL DRAWINGS)

- 1. COORDINATE ALL MECHANICAL WORK WITH ELECTRICAL WORK, AND WORK OF OTHER TRADES SHOWN ON OTHER DRAWINGS.
- 2. RUN ALL DRAIN PIPING WITH 2 PERCENT MINIMUM GRADE UNLESS OTHERWISE NOTED.
- 3. INSTALL PIPING AND DUCTWORK SO THAT ALL VALVES AND DAMPERS ARE ACCESSIBLE PER INTERNATIONAL MECHANICAL CODE SECTION 306.
- 4. CERTAINTEMS SUCH AS ACCESS DOORS, CLEANOUTS, RISE AND DROPS IN DUCTWORK AND PHING, ETC., ARE INDICATED ON THE DRAWINGS FOR CLARITY OR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE ITEMS AS REQUIRED ELSEWHERE IN THE CONTRACT DOCUMENTS.
- 5. WHERE THE INSTALLATION OF NEW SERVICES OR THE EXTENSION OF EXISTING SERVICES REQUIRES CUTTING OF EXISTING FLOORS, WALLS, PARTITIONS, ETC., CHECK FOR THE PRESENCE OF EXISTING MECHANICAL PLUMBING AND ELECTRICAL SERVICES WITHIN OR IMMEDIATELY BENEATH CONSTRUCTION, EXERCISE NECESSARY PRECAUTIONS TO PREVENT DIAMAGE TO THE SERVICES OF MULRIFY TO PERSONNEL DUE TO CONTACT WITH SAME, TEMPORARILY DISCONNECT SERVICES DURING THE CUTTING OPERATION, SCHEDULE SERVICE OUTLAGES IN ADVANCE WITH THE OWNER.
- THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS.
- CONCRETE HOUSEKEEPING PADS TO SUIT MECHANICAL EQUIPMENT SHALL BE SIZED AND LOCATED BY THE MECHANICAL CONTRACTOR. MINIMUM CONCRETE PAD
  THICKNESS SHALL BE 4" OR AS INDICATED OTHERWISE ON DRAWINGS. PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 6" ON EACH SIDE.
- PROVIDE FLEXIBLE CONNECTIONS AT ALL DUCTWORK SYSTEMS (SUPPLY AND RETURN) CONNECTED TO FAN COIL UNITS WHICH REQUIRE VIBRATION ISOLATION, FLEXIBLE
  CONNECTORS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT.
- EXCEPT AS OTHERWISE NOTED, LOCATE ALL ROOM THERMOSTATS ABOVE FINISHED FLOOR ON SAME HORIZONTAL CENTERLINE AS LIGHT SWITCH. WHERE LIGHT SWITCH AND TEMPERATURE SENSOR ARE NEXT TO EACH OTHER, LIGHT SWITCH SHALL BE CLOSEST TO THE DOOR, COORDINATE WITH ELECTRICAL CONTRACTOR, NOTIFY THE ENGINEER OF ANY ROOMS WHERE THE ABOVE LOCATION CANNOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON LOCATION.

#### APPLICABLE CODES, STANDARDS, AND REGULATIONS

- 1. 2021 INTERNATIONAL MECHANICAL CODE
- 2. 2021 INTERNATIONAL ENERGY CONSERVATION CODE
- 3. 2021 INTERNATIONAL BUILDING CODE
- 4. 2021 INTERNATIONAL EXISTING BUILDING CODE
- 5. 2021 INTERNATIONAL GREEN CONSTRUCTION CODE
- MARYLAND BUILDING REHABLITATION CODE REGULATIONS
   DGS PROCEDURE MANUAL FOR PROFESSIONAL SERVICES, REV 2019

ARCHITECTURAL / STRUCTURAL / CIVIL

## WHITNEY, BAILEY, COX, MAGNANI,LLC/ WBCM, LLC.

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MECHANICAL ELECTRICAL & PLUMBING ENGINEERS



PROFESSIONAL CERTIFICATION. I HERE BY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO.: 36608 EXPIRATION DATE: 12/23/2025

ST. MARY'S CHAPEL
DESIGN AND INSTALL
INTERPRETIVE ELEMENTS OF
CHAPEL EXHIBIT AND ADD A/C
PROJECT NO: SM-023-230-002

USING AGENCY APPROVAL

Name D

Tid.

DGS APPROVAL

Project Manager Date

CAD DWG FILE: -

DRAWN BY: MAV

CHK'D BY: CEL

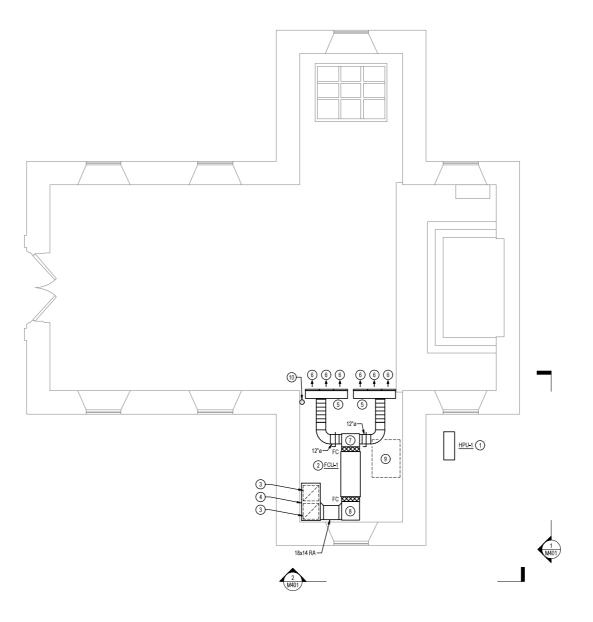
PROJECT No.: SM-023-230-002

DATE: 03/15/2024

MECHANICAL COVER SHEET

M001

SHEET 8 OF 17



FIRST FLOOR - DUCTWORK - NEW WORK PLAN

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

1. EXISTING SHOWN WITH LIGHT WEIGHT LINE, -

NEW WORK SHOWN WITH HEAVY WEIGHT LINE,

3. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. EXISTING CONDITIONS ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE USCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, OR THERE IS, A QUESTION REGARDING SCOPE OF WORK OR LIMITS OF DISTURBANCE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.

UNLESS OTHERWISE NOTED, RUNOUTS TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK SIZE.

HENRY ADAMS

ARCHITECTURAL / STRUCTURAL / CIVIL

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COX, MAGNANI,LLC/

MECHANICAL ELECTRICAL & PLUMBING ENGINEERS

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

MOUNT ON 4" HOUSEKEEPING PAD

FOU-1 AND ASSOCIATED DUCTWORK LOCATED WITHIN ATTIC SPACE, MOUNT FROM ABOVE, PROVIDE SECONDARY DRAIN PAN BENEATH FCU.

3 20x20 R-1. 900 CFM.

48" L x 24" W x 18" H INSULATED PLENUM.

5 54" L x 10" W x12" H INSULATED PLENUM. 900 CFM

APPROX 18" LONG D-1 (THE DIFFUSER SHALL FIT BETWEEN THE EXISTING STUDS, VERIFY EXACT DIMENSION IN FIELD) WITH (6) 1" SLOTS, CONTRACTOR SHALL VERIFY IN FIELD IF EXISTING STUDS ARE LOAD BEARING, IF THEY ARE NOT LOAD BEARING MODIFY FRAMING AND USE A SINGLE 9 FT LONG D-1 IN LIEU OF THE MULTIPLE 18" LONG DIFFUSERS, LOCATE DIFFUSER IN BARREL VAULT CEILING AND MATCH STAINED WOOD.

7 14" LONG INSULATED PLENUM, PLENUM SHALL BE 16" DEEP AND WIDTH SHALL MATCH WIDTH OF FCU CONNECTION.

8) 24" LONG INSULATED PLENUM, PLENUM SHALL BE 16" DEEP AND WIDTH SHALL MATCH WIDTH OF FCU CONNECTION.

9 36" x 48" ATTIC HATCH

10 LOCATE THERMOSTAT AT THE SAME ELEVATION AS LIGHT SWITCHES

OF MARY

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PROJECT NO: SM-023-230-002

USING AGENCY APPROVAL

lame

DGS APPROVAL

Project Manager Date

03/15/24 ISSUED FOR BID

MARK DATE DESCRIPTION

CAD DWG FILE: -

DRAWN BY: MAV

CHK'D BY: CEL

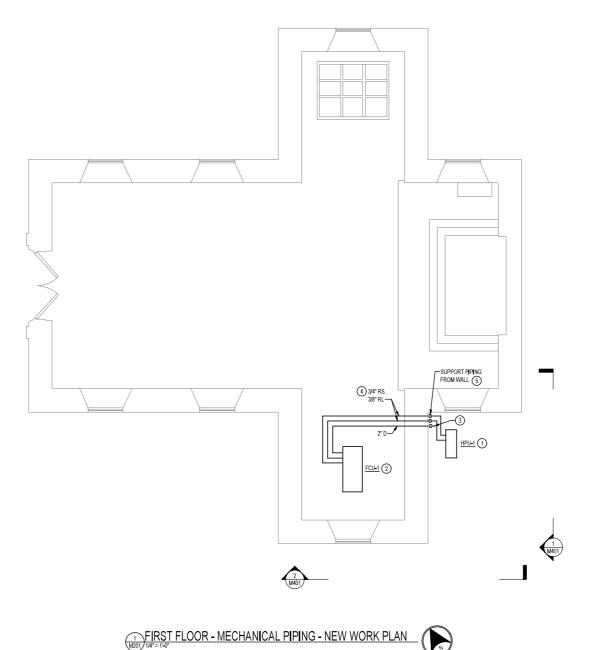
PROJECT No.: SM-023-230-002

DATE: 03/15/2024

FIRST FLOOR - DUCTWORK -NEW WORK PLAN

M101

SHEET 9 OF 17



DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

EXISTING SHOWN WITH LIGHT WEIGHT LINE,

NEW WORK SHOWN WITH HEAVY WEIGHT LINE,

NEW WORK SHOWN WITH HEAVY WEIGHT LINE.

INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. EXISTING CONDITIONS ARE SHOWN IN AN APPROVANTE WAY ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FARRICATION OR PERFORMANCE OF ANY WORK, SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, OR THERE IS A QUESTION REGARDING SCOPE OF WORK OR LIMITS OF DISTURBANCE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.

PATCH, FINISH, AND PAINT ANY WALLS FROM CORNER TO CORNER THAT ARE OPENED UP FOR INSTALLATION OF NEW WIRING, DUCTWORK, PIPING, ETC, MATCH EXISTING FINISH.

#### SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

(1) MOUNT ON 4" HOUSEKEEPING PAD

(2) FCU-1 AND ASSOCIATED PIPING LOCATED WITHIN ATTIC SPACE, MOUNT FROM

3 TERMINATE 2" D 6" ABOVE FINISHED GRADE WITH ELBOW DN

4 ASSOCIATED EQUIPMENT MANUFACTURER SHALL CONFIRM FINAL PIPE SIZES

PROVIDE PENETRATION OUTLET EQUAL TO AIREX PROSYSTEM KIT MODEL TGS AT PIPE PENETRATIONS THROUGH WALL.

ARCHITECTURAL / STRUCTURAL / CIVIL CONSULTANTS:

# WHITNEY, BAILEY, COX, MAGNANI,LLC/ WBCM, LLC.

300 EAST JOPPA ROAD, SUITE 200 BALTIMORE, MARYLAND 21286 PHONE: (410) 512-4500 FAX: (410) 324-4100



Mechanical Electrical & Plumbing Engineers



PROFESSIONAL CERTIFICATION, I HERE BY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO.: 36608 EXPIRATION DATE: 12/23/2025

ST. MARY'S CHAPEL DESIGN AND INSTALL INTERPRETIVE ELEMENTS OF CHAPEL EXHIBIT AND ADD A/C PROJECT NO: SM-023-230-002

USING AGENCY APPROVAL

DGS APPROVAL

Chief of	PM&D	Date
	03/15/24	ISSUED FOR BID
MARK	DATE	DESCRIPTION

CAD DWG FILE: -

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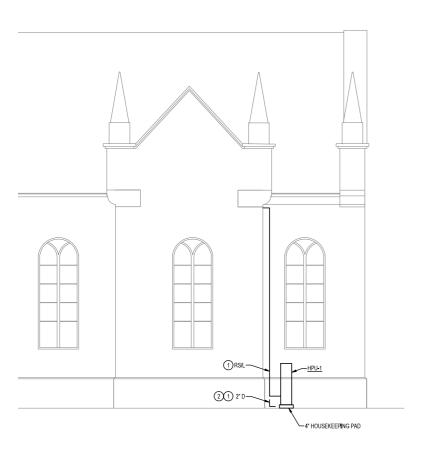
PROJECT No.: SM-023-230-002

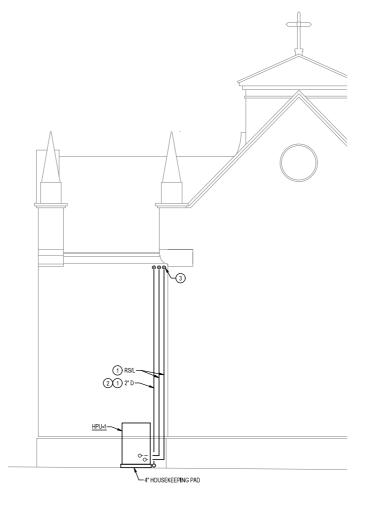
DATE: 03/15/2024

FIRST FLOOR - MECHANICAL PIPING - NEW WORK PLAN

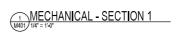
M201

SHEET 10 OF 17





MECHANICAL - SECTION 2



DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

EXISTING SHOWN WITH LIGHT WEIGHT LINE,

NEW WORK SHOWN WITH HEAVY WEIGHT LINE,

NEW WORK SHOWN WITH HEAVY WEIGHT LINE.

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Mechanical Electrical & Plumbing Engineers

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

SUPPORT PIPES FROM WALL

2) TERMINATE 2" D 6" ABOVE FINISHED GRADE WITH ELBOW DN

PROVIDE PENETRATION OUTLET EQUAL TO AIREX PROSYSTEM KIT MODEL TGS AT PIPE PENETRATIONS THROUGH WALL.



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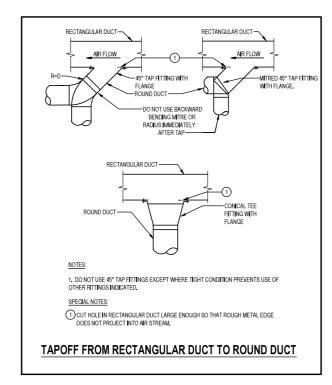
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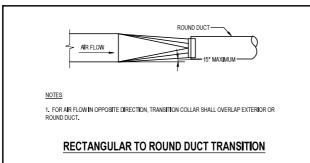
DATE: 03/15/2024

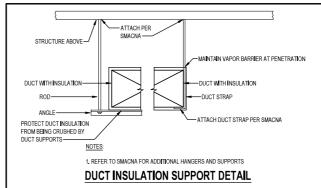
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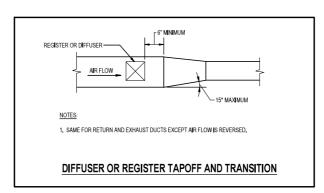
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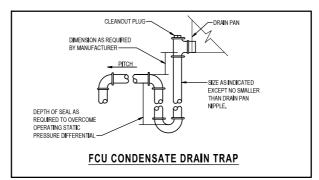
SHEET 11 OF 17

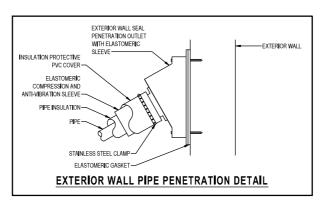


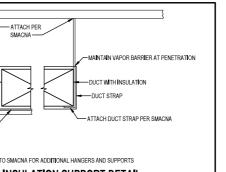


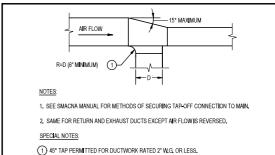




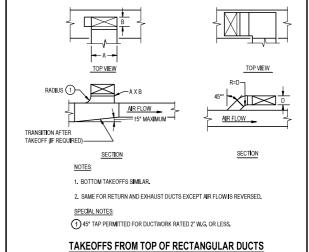


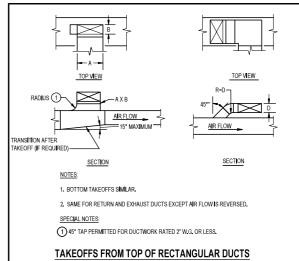






#### TAPOFF AND TRANSITION FROM SIDE OF DUCT





ARCHITECTURAL / STRUCTURAL / CIVIL CONSULTANTS:

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300 EAST JOPPA ROAD, SUITE 200 BALTIMORE, MARYLAND 21286 PHONE: (410) 512-4500 FAX: (410) 324-4100



MECHANICAL ELECTRICAL & PLUMBING ENGINEERS



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Date

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PROJECT No.: SM-023-230-002

DATE: 03/15/2024

MECHANICAL DETAILS

M501

SHEET 12 OF 17

#### GENERAL NOTES: (APPLICABLE TO ALL MECHANICAL SCHEDULES)

- UNIT NUMBERS ARE INDICATED WHERE ALL UNITS ARE LISTED AND NUMBERED INDIMIDUALLY.
- UNIT TYPES ARE DESCRIBED IN THE SPECIFICATIONS.
- TEMPERATURE VALUES ARE LISTED IN DEGREES FAHRENHEIT.
- AIR PRESSURE VALUES ARE LISTED IN INCHES OF WATER COLUMN.
- AIR VELOCITY VALUES ARE LISTED IN FEET PER MINUTE.
- DUCT AND PIPE SIZES ARE LISTED IN SINGLE-NUMBER INCHES OF NOMINAL DIAMETER OR MULTIPLE NUMBER INCHES OF INDICATED PARAMETER CONNECTION SIZES ARE BRANCH SIZES FROM MAINS TO UNIT INLETS. SINGLE PIPE SIZE IS TYPICAL FOR SUPPLY AND RETURN.

_	
	T T A
	HENRY ADAMS

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WBCM, LLC.

300 EAST JOPPA ROAD,

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COX, MAGNANI,LLC/

Consulting Engineers MECHANICAL ELECTRICAL & PLUMBING ENGINEERS



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Chief of	PM&D	Date
	03/15/24	ISSUED FOR BID
MARK	DATE	DESCRIPTION
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DRAWN BY: MAV

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PROJECT No.: SM-023-230-002

DATE: 03/15/2024

MECHANICAL SCHEDULES AND CONTROLS

M801

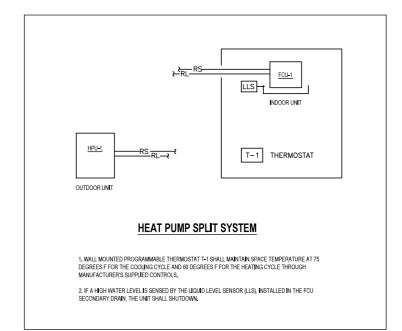
SHEET 13 OF 19

					COOLING				HEATING		
III NO	LOCATION	HEAT PUMP	SA CFM	ESP (IN WC)	TOTAL MBH	SENS MBH	EAT DB	EAT WB	TOTAL MBH	EAT DB	NOTES
CU-1	ATTIC	HPU-1	1,800	0.5	48.5	36.0	75	63	41.3	70	
ES FOR VARIABLE REFRIGERANT FAN COIL UNITS:											

VARIABLE REFRIGERANT HEAT PUMP UNITS								
				CAPACIT	Y (NOTE 3)	ELECTRICAL		
UNIT NO.	LOCATION	SERVICE	TOTAL COOLING (MBH)	EAT	TOTAL HEATING (MBH)	EAT	VOLTAGE/PHASE	NOTES
HPU-1	OUTDOORS	CHAPEL	48.5	95	41.3	0	208/1	

NOTES FOR VARIABLE REFRIGERANT AIR-COOLED CONDENSING UNITS:

- R. 410A REFRIGERANT
   RETRIGERANT PIPE SIZES AND ROUTING, REFRIGERANT CHARGE, ETC., SHALL DE PROVIDED DY THE MANUFACTURER.
   RETRIGERANT PIPE SIZES AND ROUTING, REFRIGERANT CHARGE, ETC., SHALL DE PROVIDED DY THE MANUFACTURER.
   R. CAPACITY DINICIATED IS MINIMUM REQUIRED CAPACITY AFTER CORRECTIONS FOR DESIGN CONDITIONS, REFRIGERANT PIPE S
   AND LENGTHS, AND CORRECTIONS HAVE BEEN TAKEN INTO ACCOUNT.



#### GENERAL ELECTRICAL DEMOLITION/RENOVATION NOTES

- THE FACILITY WILL REMAIN OCCUPIED DURING RENOVATIONS.
- 2. MINIMIZE OUTAGES, COORDINATE OUTAGES WITH OWNER, PERFORM WORK REQUIRING SUSTAINED EQUIPMENT OUTAGE CONTINUOUSLY AROUND THE CLOCK UNTIL WORK IS COMPLETE. UNLESS NOTED OTHERWISE.
- 3. PRIOR TO DEMOLITION, FIELD VERIEY CONDUCTORS, AND CABLES THAT PASS THROUGH AND SERVE AREAS OUTSIDE THE SCOPE OF WORK, MAINTAIN CONTINUITY OF SYSTEMS, PROTECT OR RELOCATE SYSTEMS TO PREVENT DAMAGE, RESTORE SYSTEMS TO NORMAL OPERATION, COORDINATE SYSTEM OUTAGES WITH
- IDENTIFY NONFUNCTIONING EQUIPMENT AND DEVICES TO REMAIN AFTER DEMOLITION, NOTIFY OWNER IN WRITING PRIOR TO DEMOLITION, UPON COMPLETION OF WORK, ENSURE THAT EXISTING EQUIPMENT AND DEVICES OPERATE PROPERLY.
- 5. IN AREAS REQUIRING THE PERFORMANCE OF WORK OF OTHER TRADES, CAREFULLY DISCONNECT, MAKE SAFE, REMOVE AND STORE ELECTRICAL ITEMS IN PATH OF WORK, REINSTALL AND RECONNECT SAME AFTER COMPLETION OF OTHER TRADE'S WORK, COORDINATE REMOVAL OF EQUIPMENT WITH OTHER TRADES PRIOR TO DEMOLITION.
- AFTER DEMOLITION VERIFY AND SUPPORT REMAINING CABLES, WIRES, AND CONDUIT IN ACCORDANCE WITH THE APPLICABLE VERSION OF THE NEC. DISCONNECT, MAKE SAFE AND REMOVE ABANDONED AND TEMPORARY WIRE WITHIN SPACE.
- 7. EXISTING CONDITIONS REFLECT GENERAL OBSERVATIONS AND ARE NOT INTENDED TO INDICATE DETAILS OR DIMENSIONS, NO ATTEMPT HAS BEEN MADE TO SHOW ALL ELECTRICAL EQUIPMENT. VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK, NOTIFY OWNER IN WRITING IF CONDITIONS ARE DISCOVERED THAT PREVENT EXECUTION OF WORK.
- 8. PROTECT REMAINING ELECTRICAL SYSTEMS AND COMPONENTS FROM DAMAGE, REMOVE PROTECTIVE MATERIALS UPON COMPLETION OF WORK.
- 9. IN AREAS NOTED TO REMOVE ELECTRICAL WORK, REMOVE CONDUITS AND ASSOCIATED SUPPORTS BACK TO POINT OF CONCEALMENT AND REMOVE WINING BACK TO REMAINING ACTIVE DEVICES OR SOURCE
- 10. PROVIDE OWNER WITH INVENTORY OF MAJOR ELECTRICAL ITEMS TO BE REMOVED. OWNER WILL SELECT ITEMS TO BE SALVAGED. TURN SALVAGED ITEMS OVER TO OWNER, ITEMS REJECTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR, REMOVE DEMOLISHED ITEMS FROM SITE.
- 11. UPDATE PANELBOARD DIRECTORIES TO INCLUDE MODIFICATIONS BY THIS PROJECT. TRACE CIRCUITS TO IDENTIFY UNLABELED LOADS.
- 12. REPAIR DISTURBED AREAS TO MATCH EXISTING CONDITIONS.
- 13. PROVIDE BLANK COVER PLATES FOR DEVICES REMOVED WHEN A REPLACEMENT DEVICE IS NOT INDICATED.
- 14, MAINTAIN CONTINUITY OF CIRCUITS AND FEEDERS REMAINING AFTER DEMOLITION IN PANELS INDICATED TO BE DEMOUSHED OR REPLACED, EXTEND EXISTING CIRCUITS AND FEEDERS REMAINING AFTER DEMOLITION TO NEW PANELS, CIRCUIT BREAKER, CONDUIT, AND WIRE SHALL MATCH EXISTING TYPES AND SIZES.

#### GENERAL ELECTRICAL NOTES

- PROVIDE LABOR, MATERIALS, TOOLS, EQUIPMENT, COORDINATION, DELEGATED DESIGN AND INCIDENTALS NECESSARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM. 2. PERFORM WORK AS REQUIRED BY APPLICABLE CODES, REGULATIONS AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES WITH LAWFUL
- 3. MATERIAL AND EQUIPMENT SHALL BE LISTED AND LABELED BY NATIONALLY RECOGNIZED TESTING LABORATORIES FOR INTENDED SERVICE.
- 4. GIVE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES, PAY FEES AND BACK CHARGES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE
- 5. MAINTAIN RECORD DRAWINGS ON SITE. RECORD SET SHALL BE COMPLETE, CURRENT, AND AVAILABLE UPON REQUEST.
- 6. SUBMIT FOR APPROVAL, SHOP DRAWINGS FOR EQUIPMENT AND MATERIALS USED ON PROJECT, OBTAIN APPROVAL BY ENGINEER PRIOR TO PURCHASE OF EQUIPMENT AND MATERIALS.
- 7. REPAIR OR REPLACE DAMAGE TO FACILITIES AND EQUIPMENT AT NO ADDITIONAL EXPENSE TO OWNER,
- 8. PATCH AND REPAIR DISTURBED AREAS TO MATCH ADJACENT SURFACES AND FINISHES.
- 9. PROVIDE TEMPORARY POWER AND LIGHTING FOR OTHER TRADES AS REQUIRED TO COMPLETE PROJECT IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS. 10. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS, PROVIDE COMPONENTS INDICATED ON RISER DIAGRAMS WHETHER OR NOT INDICATED ON PLANS, AND VICE VERSA.
- 11. LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND REQUIRE COORDINATION WITH OTHER TRADES, ROUTING OF CONDUIT IS DIAGRAMMATIC IN NATURE AND NOT INTENDED TO SHOW REQUIRED OFFSETS AND DETAILS, OBTAIN DRAWINGS AND SPECIFICATIONS FROM OTHER TRADES AND COORDINATE WITH OTHER TRADES.
- 12. COORDINATE ELECTRICAL INSTALLATION WITH FIELD CONDITIONS, LOCATIONS SHOWN ARE DIAGRAMMATIC AND MAY REQUIRE ADJUSTMENT IN FIELD.
- 13. PERMANENTLY LABEL NEW ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, DEVICE DESIGNATION AND SUPPLY CIRCUIT DESIGNATION.
- 14. CORE DRILL CONCRETE WALLS AND FLOORS TO PROVIDE OPENINGS FOR CONDUIT INSTALLATION, MAXIMUM CORE DRILL SIZE SHALL BE SHOCH DIAMETER, SPACE CORE DRILL LOCATIONS A MIMIMUM OF 6" FROM EACH OTHER MEASURED FROM CORE DRILL OPENINGS, PROPERLY SEAL OPENINGS ACCORDING TO LOCATION AND APPLICATION, USE GROUND PENETRATING RADAR OR OTHER MEANS TO VERIFY THAT NO UTILITIES OR STRUCTURAL MEMBERS WILL BE DAMAGED FROM THE DRILLING, OFFSET CONDUIT ROUTE AS REQUIRED TO COORDINATE WITH OSSTRUCTION AND WITH NO ADDITIONAL COST TO THE PROJECT.
- 15. PROVIDE EACH CIRCUIT WITH A DEDICATED NEUTRAL UNLESS NOTED OTHERWISE.
- 16. CONDUIT HOMERUNS SHOWN ON DRAWINGS WITH MORE THAN 3 CURRENT CARRYING CONDUCTORS ARE SHOWN DIAGRAMMATICALLY. DO NOT INSTALL MORE THAN 3 CURRENT CARRYING CONDUCTORS IN A SINGLE RACEWAY UNLESS INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- 17 PROVIDE EIRESTOPPING FOR ELECTRICAL PENETRATIONS IN FIRE RATED ASSEMBLIES
- 18, INSTALL ELECTRICAL WORK IN A NEAT AND WORKMANLIKE MANNER, RECTILINEAR TO BUILDING STRUCTURE. INSTALL RACEWAYS TIGHT TO STRUCTURAL CEILING AND AS HIGH AS POSSIBLE WITHIN CEILING SPACES TO MAINTAIN MAXIMUM AMOUNT OF CLEAR SPACE BELOW RACEWAY
- 19. INSTALL RACEWAYS CONCEALED IN BUILDING FINISHES FOR ALL EXTERIOR MOUNTED DEVICES. DO NOT ROUTE EXPOSED ON BUILDING EXTERIOR.
- 20. INSTALL RACEWAYS CONCEALED IN WALLS, UNDER FLOORS, ABOVE CEILINGS, ETC., EXCEPT AS FOLLOWS:
- A WHERE SUSPENDED CEILINGS ARE NOT PROVIDED
- B. IN VERTICAL SHAFTS, ELECTRICAL CLOSETS, ETC., MECHANICAL AND ELECTRICAL EQUIPMENT SPACES WHERE CONCEALMENT IS NOT PRACTICAL.
- C. AT SURFACE-MOUNT PANELBOARDS IN OTHERWISE FINISHED SPACES LIMITED TO VERTICAL RUNS ABOVE AND BELOW PANEL. WHERE REQUIRED FOR EQUIPMENT CONNECTIONS.
- E. WHERE SPECIFICALLY INDICATED ON DRAWINGS.
- 24. OWNER-PUNNSHED EQUIPMENT: VERIFY AND COORDINATE ELECTRICAL ROUGH-IN REQUIREMENTS FOR OWNER-FURNISHED EQUIPMENT WITH OWNER PRIOR TO PULLING CONDUCTORS AND MAKING FINAL CONNECTIONS, LACK OF COORDINATION SHALL NOT JUSTIFY CHANGE ORDERS.
- 25. WHERE SUBMITTED EQUIPMENT REQUIRES REVISION TO OVERCURRENT PROTECTION, CONDUIT, AND WIRING, COORDINATE AND MAKE CHANGE TO PROVIDE A COMPLETE INSTALLATION IN ACCORDANCE WITH APPLICABLE CODES.
- 26. PROVIDE NECESSARY SUPPORTING STRUT CHANNEL AND ALL MISCELLANEOUS HARDWARE FOR MOUNTING ELECTRICAL EQUIPMENT. MAINTAIN NEC WORKING CLEARANCES, COORDINATE EXACT LOCATION IN FIELD, DO NOT MOUNT ON EQUIPMENT ACCESS PANELS OR IN EQUIPMENT MANUFACTURER'S RECOMMENDED

ELECTRICAL ABBREVIATIONS								
A AIC ASHRAE AWG BOD C C CB CKT DS DWG	AMPERE AMPERE INTERRUPTING CAPACITY AMERICAN SOCIETY OF HEATING, REFRISERATING, AND AIR-CONDITIONING ENGINEERS AMERICAN WIRE CAUGE BASIS OF DESIGN CONDUIT CIRCUIT BREAKER CIRCUIT BREAKER CIRCUIT DISCONNECT SWITCH DRAMING EXISTING		MCB MLO MOCP NEC NEMA NTS RX SS SW	MAIN CIRCUIT BREAKER MAIN LUGS ONLY MAXIMUM OVERCURRENT PROTECTION NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NOT TO SCALE REMOVE EXISTING SAFETY SMITCH SMITCH TRANSFORMER TYPICAL				
GND GW	GROUND GROUND WIRE		V VA	VOLTS VOLT-AMPERES				
HP HPU JB	HORSEPOWER HEAT PUMP UNIT JUNCTION BOX		W XFMR	WIRE TRANSFORMER				
K Kajic Komjil Kw	ONE THOUSAND THOUSAND AMPERE INTERRUPTING CAPACITY THOUSAND CIRCULAR MILS KILOWATTS LOAD CENTER							

٦		ELECTRICAL LEGEND	
1	SYMBOL	MOUNTING HEIGHT	
	□ , 0	EQUIPMENT, AS NOTED	
	ים	SAFETY SWITCH	60" TO TOP
-			

NOTES: (APPLICABLE TO ELECTRICAL LEGEND ONLY)

- THE MOUNTING HEIGHTS GIVEN ON THIS SHEET IN THE ELECTRICAL LEGEND ARE GENERAL AND SHALL BE USED ONLY WHEN MOUNTING HEIGHTS CANNOT BE ESTABLISHED BY REFERENCE TO DETAILS, ELEVATIONS, AND NOTES ON THE DRAWINGS.
- ALL MOUNTING HEIGHTS, UNLESS OTHERWISE NOTED, SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE OUTLET OR DEVICE.
- 3. HEIGHTS OF ALL ITEMS NOT COVERED BY THE ELECTRICAL LEGEND AND NOT SHOWN ON THE DRAWINGS SHALL BE AS DIRECTED BY THE ARCHITECT OR ENGINEER.
- WHERE PLACING ANY ITEM AT THE HEIGHTS LISTED OR NOTED WILL CAUSE INTERFERENCE WITH THE WORK OF OTHER TRADES, OR IS NOT PHYSICALLY POSSIBLE OR DESIRABLE FOR ONE REASON OR ANOTHER, THE ITEM SHALL BE INSTALLED AT A LOCATION APPROVED BY THE ARCHITECT OR ENGINEER.

WIRING	
	CONCEALED CONDUIT IN CEILING OR WALLS
	CONDUIT IN OR UNDER FLOOR
	CONDUIT TURNING UP
	GENERAL NOTE: WHERE WIRE SIZE IS INDICATED AT THE HOMERUN OR ON THE SCHEDULE TO BE LARGER THAN THE SPECIFIED MINIMUM PROVIDE THE INDICATED WIRE SIZE THROUGHOUT THE ENTIRE BRANCH CIRCUIT.
PRESENTAT <b>I</b> O	N
	ELECTRICAL EQUIPMENT DESIGNATED BY SOLID HEAVY LINEWEIGHT INDICATES NEW WORK TO BE PROVIDED.
	ELECTRICAL EQUIPMENT DESIGNATED BY SOLID LIGHT LINEWEIGHT INDICATES EXISTING EQUIPMENT TO REMAIN, UNLESS OTHERWISE INDICATED.
	ELECTRICAL EQUIPMENT DESIGNATED BY DASHED HEAVY LINEWEIGHT REPRESENTS EXISTING EQUIPMENT TO BE REMOVED AND DISPOSED, UNLESS NIDICATED TO BE REMOUNTED, RELOCATED, OR TURNED OVER TO OWNER.
REFERENCE	
	——SECTION DESIGNATION
E501	NUMBER DENOTES SECTION IDENTIFICATION
(1-)	— DETAIL DESIGNATION
E501	— NUMBER DENOTES SECTION IDENTIFICATION  DRAWING NUMBER WHERE DETAIL IS LOCATED
	DINAMING NUMBER WHERE DETAIL IS LOCATED
① <del>-</del>	——SPECIAL NOTE (APPLIES WHERE INDICATED ON THE DRAWING)
(\$-1) <del></del>	

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DGS APPROVAL

Project Manager Date 03/15/24 ISSUED FOR BID MARK DATE DESCRIPTION CAD DWG FILE: -

CHK'D BY: JI W

DRAWN BY: ZAJ

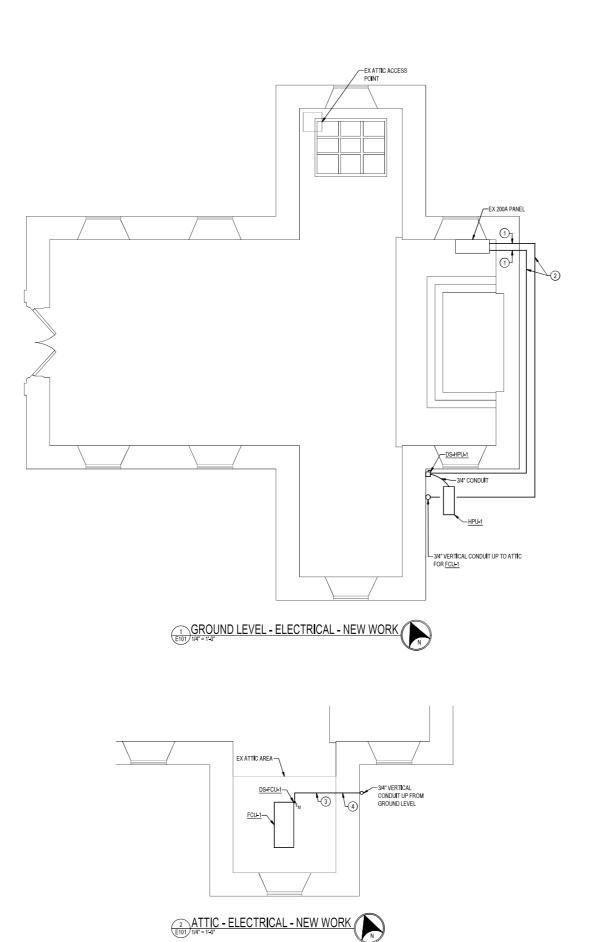
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DATE: 03/15/2024

ELECTRICAL COVER SHEET

E001

SHEET 14 OF 17



DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

- UNILESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOULD HEAVY LINEWEIGHT ( ) INDICATE
   NEW WORK TO BE PROVIDED, ELECTRICAL ITEMS SHOWN BY SOULD LIGHT LINEWEIGHT ( ) INDICATE
   EXISTING ITEMS TO REMAIN.
- EXISTING I LIMIS TO REMAIN.

  2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK, SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDITELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.

SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

- CORE DRILL THROUGH BRICK WALL AND ROUTE CONDUIT TO OUTDOORS, ROUTE BELOW RINISHED GRADE
  IF APPLICABLE, OR PROVIDE TYPE LB CONDUIT FITTING TO TRANSITION CONDUITS BELOW GRADE AT
  BUILDING EXTERIOR.
- (2) ROUTE 3/4" CONDUIT UNDERGROUND VIA UTILITY TRENCH, CONDUITS MUST BE MINIMUM 24" BELOW FINISHED GRADE. TRENCH MUST BE WITHIN 10 FEET OF THE FOUNDATION.
- (3) 3/4" HORIZONTAL CONDUIT, SURFACE MOUNT TO WOOD BEAMS.
- 4 CORE DRILL THROUGH BRICK WALL AND ROUTE CONDUIT TO ATTIC SPACE.

ARCHITECTURAL / STRUCTURAL / CIVIL CONSULTANTS:

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# HENRY ADAMS

Consulting Engineers

MECHANICAL ELECTRICAL & PLUMBING ENGINEERS



PROFESSIONAL CERTIFICATION. I HERE BY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO.: 51082 EXPIRATION DATE: 06/07/2025

ST. MARY'S CHAPEL
DESIGN AND INSTALL
INTERPRETIVE ELEMENTS OF
CHAPEL EXHIBIT AND ADD A/C
PROJECT NO: SM-023-230-002

USING AGENCY APPROVAL

Name Da

it**l**e

DGS APPROVAL

Project Manager Date

Chief of PM&D Date

03/15/24 ISSUED FOR BID

MARK DATE DESCRIPTION

CAD DWG FILE: -DRAWN BY: ZAJ

CHK'D BY: JLW

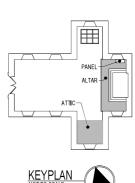
PROJECT No.: SM-023-230-002

DATE: 03/15/2024

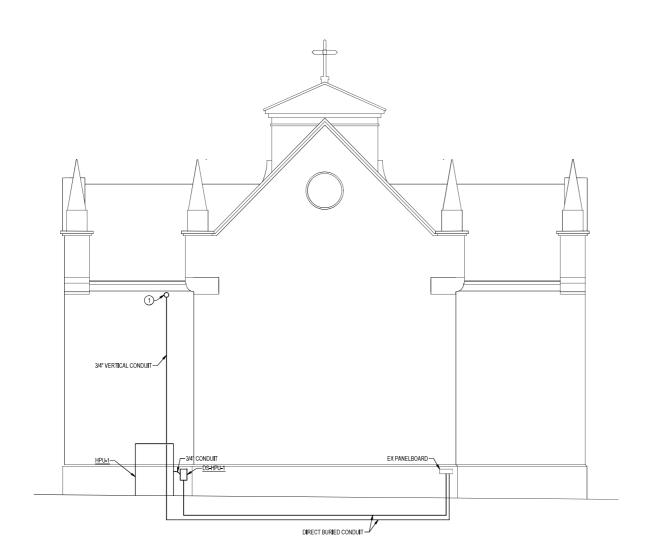
FLOOR PLANS - POWER -NEW WORK

E101

SHEET 15 OF 17







1 EAST ELEVATION - ELECTRICAL - NEW WORK

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

- UNILESS OTHERWISE NOTED, ELECTRICAL TIEMS SHOWN BY SOULD HEAVY LINEWEIGHT ( ) INDICATE
   NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOULD LIGHT LINEWEIGHT ( ) INDICATE
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SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

1 CORE DRILL THROUGH BRICK WALL AND ROUTE CONDUIT TO ATTIC SPACE.

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PROJECT NO: SM-023-230-002

JS <b>I</b> NG AGENCY APPROVAL	
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me

t**i**e

DGS APPROVAL

Chief of	PM&D	Date
	03/15/24	ISSUED FOR BID
MARK	DATE	DESCRIPTION

CAD DWG FILE: -

DRAWN BY: ZAJ

CHK'D BY: JLW

PROJECT No.: SM-023-230-002

DATE: 03/15/2024

ELEVATIONS - POWER - NEW WORK

E102

SHEET 16 OF 17



EX LOAD CENTER (DEMOLITION)						BUS AMPACITY: 200A MAIN TYPE: 200A MCB SERVICE: 120/240 VOLTS, 1 PHASE, 3 WIRE			MOUNTING: FLUSH ENGLOGURE: NEMA 1 LOCATION: ALTAR FLOOR				
	UFACTURER: CUTLER-HAMMER E: LOAD CENTER				MIN.	RATING OF MCB: 10K AI	C RMS SYMMETRICAL	AMPS					
CKT	LOAD DESCRIPTION	NOTE	Р	CK I BRE	AKER	WIRE AND CONDUIT	WIRE AND CONDUIT	CKT	BREAKE!	₹ P	NOTE	LOAD DESCRIPTION	170
1	EX NORTH TRANCEPT EAST WALL LICHTS		1	20		EXIGTING	EXICTING		20	1		EX NORTH TRANCEPT WEST WALL TV	
3	EX COFFIN PIT	-	1	20	-	EXISTING	EXISTING	-	20	1	-	FX NORTH WALL PLILPIT	11.
5	EX NORTH WALL 220V	-	2	30	-	EXISTING	EXISTING	-	20	1	-	EX SOUTH WALL WEST CORNER	
7		-	-	-	-		EXISTING	-	30	2	-	EX 30UTH WALL 220V	
9	EX NORTH WALL WEST CORNER		1	20	-	EXISTING		-	-	-	-		111
11	EX SOUTH TRANCEPT FAST WALL	-	1	20	-	FXISTING	FXISTING	-	20	1	-	EX SOUTH WALL INSIDE CORNER	111
13	EX SOUTH TRANCEPT WEST WALL	-	1	20	-	EXISTING	EXISTING	-	20	1	-	EX OUTSIDE RECEPTACLE	1 1
15	EXRECEPTACLE	-	2	30	-	EXISTING	EXISTING	-	20	1	-	EX OUTSIDE RECEPTACLE	111
17		-	-		-			-	-	-	-	RX SPACE	1 1
19	EXRECEPTACLE	-	2	30	-	FXISTING		-	-	-	-	RX SPACE	1 2
21		-	-	-	-			-	-	-	-	EX SPACE	1 2
23	RX SPACE	-	-		-			-	-	-	-	EXSPACE	1 2
25	RX SPACE	-	-		-			-	-	-	-	EXSPACE	1 2
27	EX SPACE	-	-	-	-			-	-	-	-	EXSPACE	1 2
29	EX SPACE	-	-					-	- 8	-	-	EX SPACE	1 3
31	EXIGRACE	-	-	-	-			-	-	-	-	EXSPACE	1 3
33	EX SPACE	-	-	-	-			-	-	-	-	EX SPACE	1
35	EX SPACE	-	-	-	-			-	-	-	-	EX SPACE	1 3
37	EXISPACE	-	-	-	-			-		-	-	EX SPACE	1 3
30	EXIGPAGE	-	-	-	-			-	-	-	-	EXCPACE	1 2
41	EX SPACE	-	-	-	-			-	-	-	-	EX SPACE	1
AUXLIARIES  a AFCI BREAKER  b GFCI DIREAKER (SmA)  t HANDLE CLAMIF  c GFEP BREAKER (30mA)  g RED CB HANDLE  d SHUNT TRIP BREAKER					Ë	X GROUND BUS SERVICE ENTRANCE LABEL INTEGRAL SPOTIVSS 200% NEUTRAL BUS & LUGS ISOLATED GROUND BUS			SPLIT BUS FEED THRU LUGS SUB FEED LUGS OFFSET INTERIOR / RISER PANEL				

	MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE											
EQUIPMENT DESIGNATION	KW	HP	MCA	MOCP	FLA	VOLTAGE	PHASE	LOAD (kVA)	WIRING & CONDUIT	DISCONNECTING MEANS	CONTROL MEANS	NOTES
									See schedule for Ex Load Center			
HPU-1	-	-	29.1	35	23.2	240	1	5.57	(New Work). Circuit 23, 25	DS-HPU-1	BY MECHANICAL	1.2
									See schedule for Ex Load Center			
FCU-1	-	-	8.6	15	6.88	240	1	1.65	(New Work), Circuit 18	DS-FCU-1	BY MECHANICAL	1,2

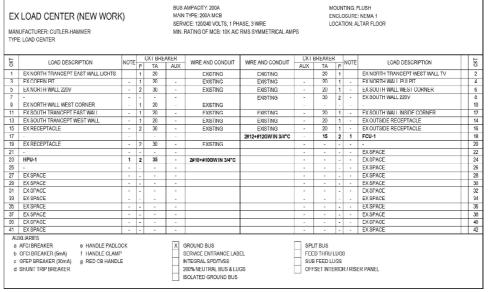
#### NOTES: (APPLICABLE TO MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE ONLY)

- 1. REVIEW EQUIPMENT SUBMITTALS FROM OTHER TRADES PRIOR TO ORDERING OR INSTALLING ASSOCIATED ELECTRICAL WORK. ELECTRICAL CONTRACTOR SHALL MODIFY COMPONENTS OF THE ELECTRICAL CONNECTIONS AS NECESSARY TO MATCH NAMEPLATE DATA OF APPROVED EQUIPMENT AND PROVIDE A CODE COMPLIANT INSTALLATION, INCLUDING BUT NOT ILLUTION TO THE TOTAL ORGANIZATION OF A CONTRACT OR AND EXTRAS WILL NOT BE AWARDED FOR FAILURE TO COORDINATE WITH OTHER TRADES EQUIPMENT SUBMITTALS.
- 2. PROVIDE NECESSARY SUPPORTING STRUT CHANNEL AND ALL MISCELLANEOUS HARDWARE FOR MOUNTING ELECTRICAL EQUIPMENT, MAINTAIN NEC WORKING CLEARANCES, FIELD COORDINATE EXACT LOCATIONS, DO NOT MOUNT ON EQUIPMENT ACCESS PANELS OR IN EQUIPMENT MANUFACTURERS' RECOMMENDED MAINTENANCE CLEARANCES, COORDINATE EXACT LOCATION OF SAFETY SWITCHES WITH MECHANICAL EQUIPMENT/CONTRACTOR.

	DISCONNECT SWITCH SCHEDULE									
DESIGNATION	AMP RATING	POLES	VOLT RATING	FUSE AMPS	FUSE CLASS	NEMA ENCLOSURE	NOTES			
DS-HPU-1	60	2	240	35	RK5	4X	2,4			
DS-FCU-1	20	2	240	,	-	TOGGLE SWITCH	-			

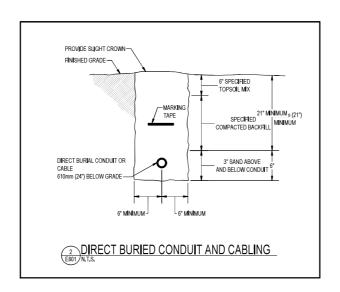
#### NOTES: (APPLICABLE TO DISCONNECT SWITCH SCHEDULE ONLY)

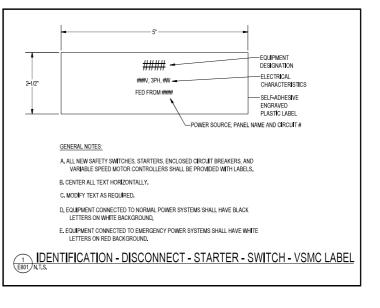
- 1. PROVIDE FUSE AND COORDINATE EXACT EQUIPMENT FUSE SIZE WITH MOTOR OR EQUIPMENT NAMEPLATE DATA DURING
- 2. ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE WITH GROUND LUG.
- 3. PROVIDE ALL FUSIBLE DISCONNECT SWITCHES WITH CLASS R FUSE KIT.
- LABEL DISCONNECT SWITCHES WITH THE DESIGNATION DENTIFIED IN THIS SCHEDULE AND THE CIRCUIT NUMBER AND PANELBOARD FROM WHICH IT IS FED, INCLUDING VOLTAGE AND PHASE.



NOTES: (APPLICABLE TO PANELBOARD SCHEDULE ONLY)

1. PROVIDE NEW CIRCUIT BREAKER IN EXISTING AVAILABLE SPACE(S), MATCH EXISTING PANELBOARD MANUFACTURER, TYPE, AND AIC RATING.





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LICINIC	<b>ACENICY</b>	APPROVAL
CONTRACT	AUTENUT	AFFRUVAL

DOC ADDDOMAL

	DGS APPROVAL									
Project	Manager	Date								
Chief of	PM&D	Date								
	03/15/24	ISSUED FOR BID								
MARK	DATE	DESCRIPTION								
CAD DW	CAD DWG FILE: -									
DRAWN	DRAWN BY: ZAJ									
CHKID B	CHK,D BA: II M									

ELECTRICAL SCHEDULES AND DETAILS

PROJECT No.: SM-023-230-002

DATE: 03/15/2024

E801

SHEET 17 OF 17