REPLACE ROOF AND EXHAUST FANS ROCKY CREEK WWTP SDB
MACON, GEORGIA

FOR THE

MACON WATER AUTHORITY

ROCKY CREEK WASTEWATER TREATMENT PLANT
MACON, GEORGIA 31206

Macon Water Authority

INDEX OF DRAWINGS

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DESIGNED BY
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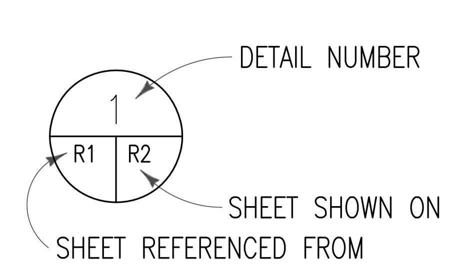
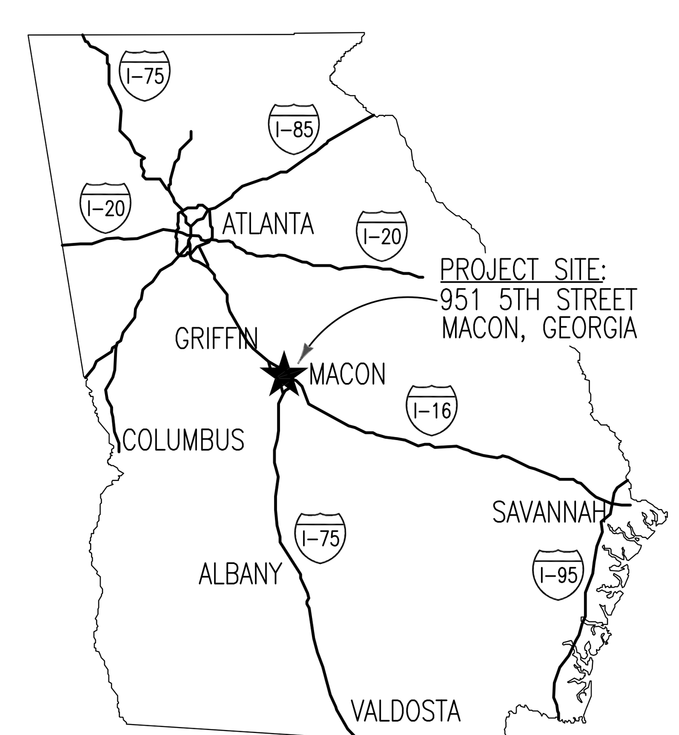
PHONE: 478-471-6661

DETAIL DRAWING SYMBOL



VICINITY MAP



VICINITY MAP
SCALE: NONE

PROJECT NARRATIVE

REMOVE EXISTING ROOF SYSTEMS AND LIGHTWEIGHT INSULATING CONCRETE DOWN TO THE EXISTING PRE-CAST CONCRETE DECK. PREPARE CONCRETE DECK, INSTALL NEW VAPOR RETARDER, NEW FULLY ADHERED ¼" PER FOOT TAPERED INSULATION SYSTEM WITH ½" COVERBOARD AND FULLY ADHERED 60 MIL PVC ROOF MEMBRANE. ALL NEW SHEET METAL FLASHING AND NEW COPING ARE TO BE INSTALLED ON EXISTING PARAPET WALLS. EXHAUST FANS AND CURBS TO BE REMOVED AND REPLACED WITH NEW EXHAUST FANS, AND CURBS ARE TO MEET MINIMUM FLASHING HEIGHT OF 8". NEW DUCT WORK, THERMOSTATS, AND SENSORS ARE TO BE INSTALLED IN CONJUNCTION WITH THE NEW EXHAUST FANS.

OWNER'S REPRESENTATIVE: MR. MICHEL WANNA, ASSISTANT EXECUTIVE DIRECTOR & VP, FIELD & PLANT OPERATIONS

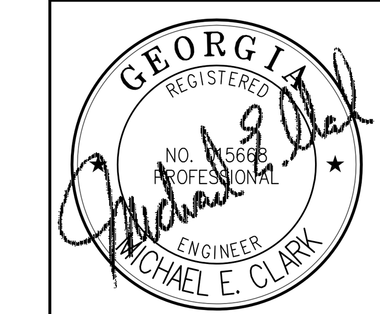
LOCATION MAP

PROJECT SITE:
SLUDGE DEWATERING BUILDING
ROCKY CREEK WWTP, MACON, GA

N
LOCATION MAP
SCALE: NONE

ISSUED FOR CONSTRUCTION

DATE	REVISIONS



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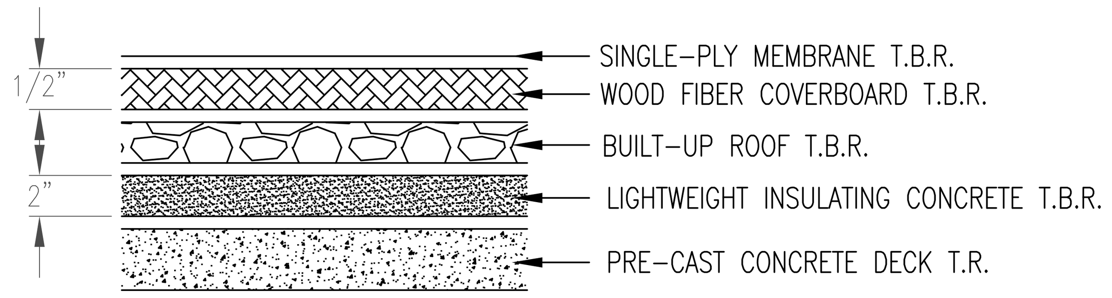
COVER SHEET
MACON WATER AUTHORITY ROCKY CREEK WASTEWATER TREATMENT PLANT
SLUDGE DEWATERING BUILDING
MACON, GA 31201

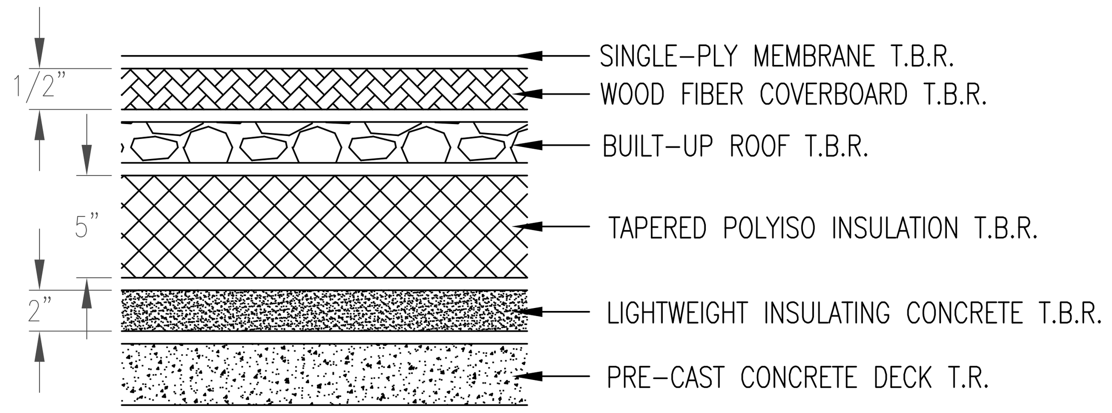
Drawn By	J.WARNER
Checked By	CLARK
Date	12/13/2024
Job No.	2024-35
Drawing Number	X-1

LEGEND

◦ VTR	EXISTING 3" ø VTR
◎ RD	EXISTING 4" ø ROOF DRAIN W/ 12" STRAINER
⊡	EXISTING 7" ø ONE-WAY VENT
34" SQ EF	EXISTING EXHAUST FAN (EF) W/ SIZE
32" SQ AB EF	EXISTING ABANDONED EXHAUST FAN (EF) W/ SIZE
EF	EXISTING 10" ø EXHAUST FAN (EF) ON SUPPORT CURBS
1	EXISTING CORE LOCATION W/ NUMBER
T.B.R.	TO BE REMOVED
T.R.	TO REMAIN



DATA FOR CORE #1
SCALE: NONE



DATA FOR CORE #2
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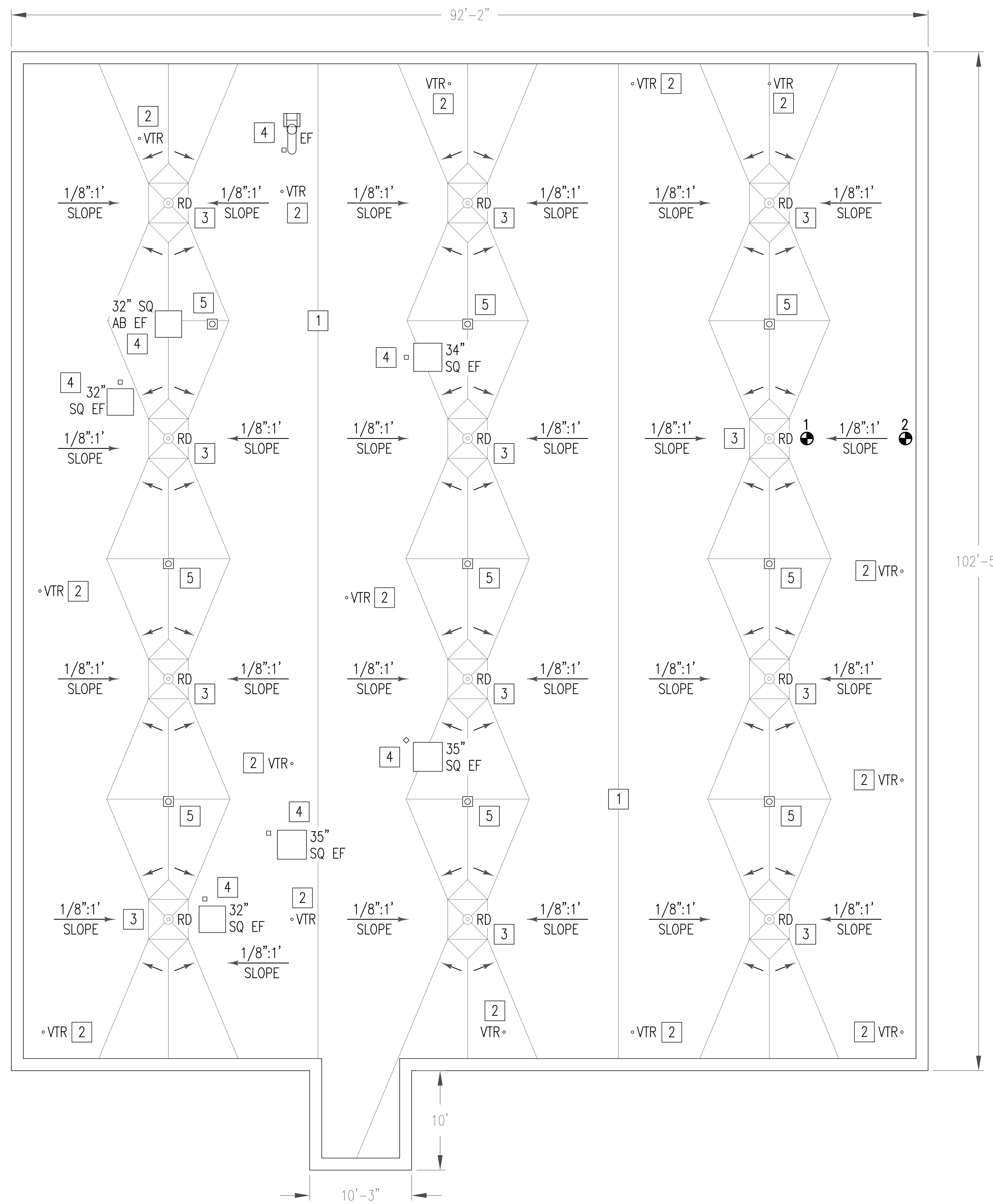

DEMOLITION ROOF PLAN
SCALE: 1/8"=1'-0"

DEMOLITION NOTES (THIS SHEET ONLY)

1. EXISTING SINGLE-PLY MEMBRANE, COATED GRAVEL SURFACED BUILT-UP ROOF (BUR), WOOD FIBER COVERBOARD, AND LIGHTWEIGHT INSULATING CONCRETE TO BE REMOVED DOWN TO THE EXISTING PRE-CAST CONCRETE DECK.
2. EXISTING PLUMBING VENT-THRU-ROOF (VTR) LOCATION. EXISTING FLASHING TO BE REMOVED. EXISTING VENT PIPE TO REMAIN. EXTEND VENT PIPE AS REQUIRED (TYP.).
3. EXISTING ROOF DRAIN (RD) LOCATION. EXISTING DRAIN STRAINER, CLAMPING RING, AND BOLTS TO BE REMOVED. EXISTING DRAIN BOWL TO REMAIN (TYP.).
4. EXISTING CURBED EXHAUST FAN (EF) TO BE REMOVED AND REPLACED DURING THE NEW WORK PHASE (TYP.).
5. EXISTING ONE-WAY VENT TO BE REMOVED (TYP.).

TEST RESULTS FOR ASBESTOS ANALYSIS OF BULK MATERIALS

SAMPLE	DESCRIPTION	NON-ASBESTOS % FIBROUS	NON-ASBESTOS % NON-FIBROUS	ASBESTOS % TYPE
1	B.U.R. MEMBRANE	20% GLASS	80% NON-FIBROUS	NONE DETECTED
2	PARAPET WALL BASE FLASHING	40% GLASS	60% NON-FIBROUS	NONE DETECTED

1/8" = 1'-0" 0 4' 8' 16' 24'
GRAPHIC SCALE

ISSUED FOR CONSTRUCTION

DATE	REVISIONS

GEORGIA REGISTERED PROFESSIONAL ENGINEER MICHAEL E. CLARK

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DEMOLITION PLAN
MACON WATER AUTHORITY ROCKY CREEK
WASTEWATER TREATMENT PLANT
SLUDGE DEWATERING BUILDING
MACON, GA 31206

Drawn By	J.WARNER
Checked By	CLARK
Date	12/13/2024
Job No.	2024-35
Drawing Number	R-1

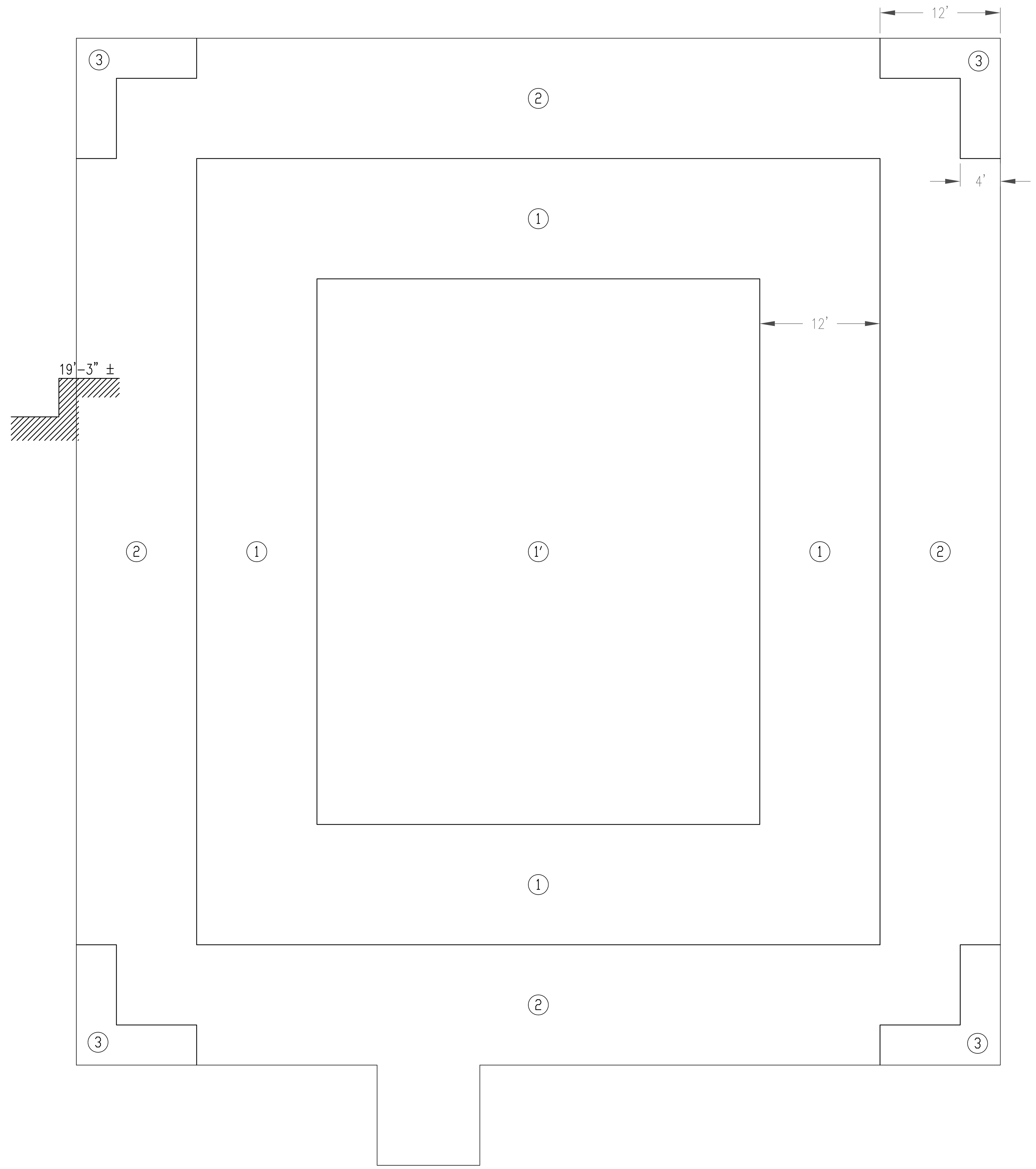
LEGEND

1' 1	FIELD OF ROOF ZONE
2	PERIMETER ROOF ZONE
3	CORNER ROOF ZONE
19'-3" ±	APPROXIMATE DISTANCE FROM GROUND TO ROOF EDGE

ROOF AREA DESIGN
WIND UP-LIFT PRESSURES
ZONE 1'=-28.52 PSF
ZONE 1=-49.65 PSF
ZONE 2=-65.49 PSF
ZONE 3=-89.26 PSF

WIND UPLIFT PARAMETERS:	
ASCE VERSION:	ASCE 7-16
BASIC WIND SPEED:	116 MPH
BUILDING CONFIGURATION:	ENCLOSED
EXPOSURE CATEGORY:	C
RISK CATEGORY:	III

NOTE: THESE VALUES ARE UNFACTORED UPLIFT PRESSURES AND DO NOT INCLUDE A LOAD-REDUCTION FACTOR OR FACTOR OF SAFETY.



WIND ZONE ROOF PLAN
SCALE: 1/8"=1'-0"

1/8" = 1'-0" 0 4' 8' 16' 24'
GRAPHIC SCALE

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WIND ZONE ROOF PLAN
MACON WATER AUTHORITY ROCKY CREEK
WASTEWATER TREATMENT PLANT
SLUDGE DEWATERING BUILDING
MACON, GA 31206

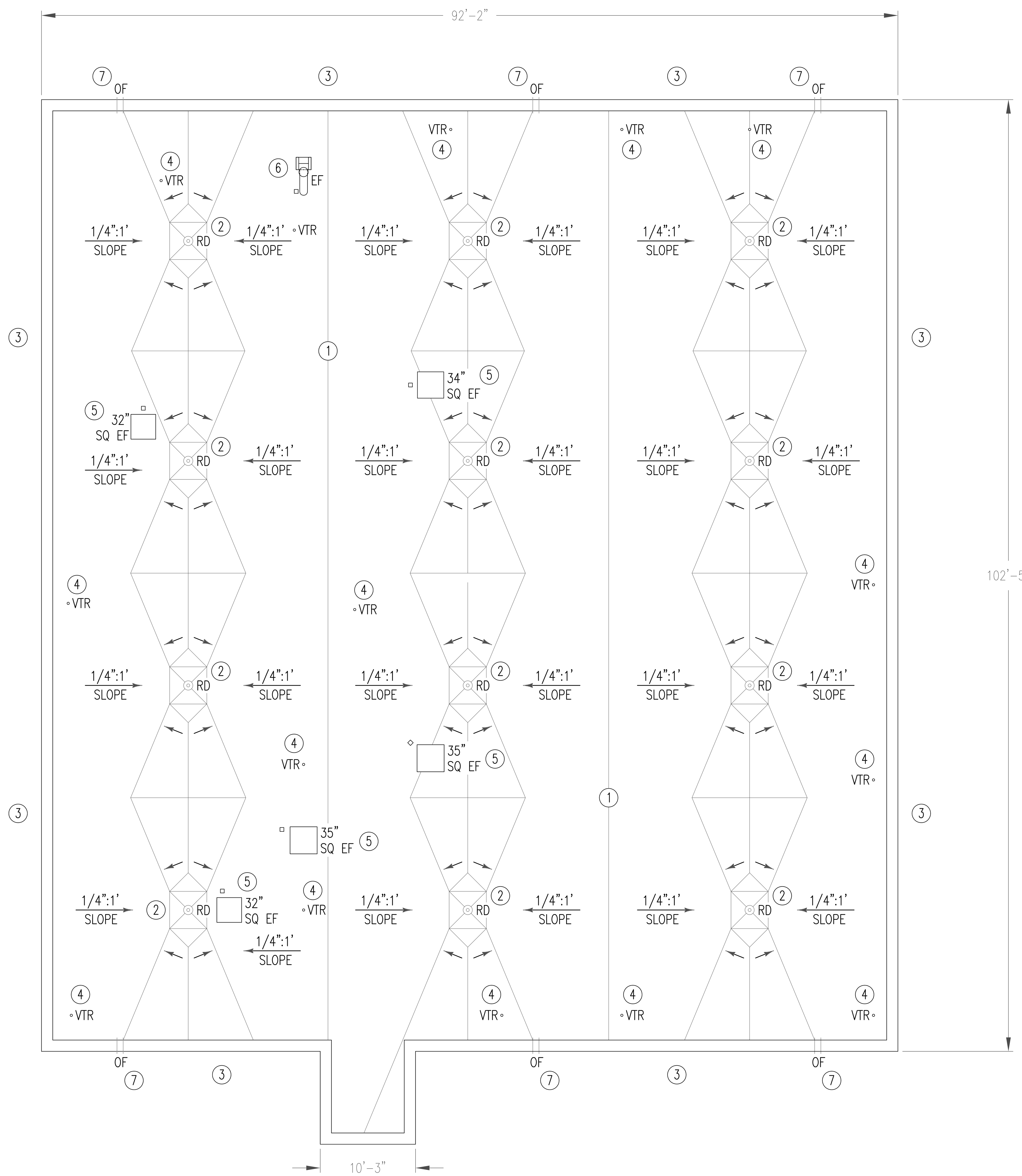
Drawn By	J.WARNER
Checked By	CLARK
Date	12/13/2024
Job No.	2024-35
Drawing Number	R-2

SHEET 3 OF 12

LEGEND

◦ VTR	RE-FLASHED 3" ø VTR
◎ RD	RE-FLASHED 4" ø ROOF DRAIN W/ NEW 12" STRAINER
34" SQ EF	NEW EXHAUST FAN (EF) W/ SIZE
EF	EXISTING 10" ø EXHAUST FAN (EF) ON SUPPORT CURBS
OF	NEW 8"x4" OVERFLOW SCUPPER

GENERAL NOTE: ALL CURBS AND PENETRATIONS TO BE RAISED AS NEEDED TO MEET MINIMUM 8" FLASHING HEIGHT.



NEW WORK ROOF PLAN
SCALE: 1/8"=1'-0"

NEW WORK NOTES (THIS SHEET ONLY)

1. NEW PVC MEMBRANE ROOF SYSTEM: 60 MIL PVC MEMBRANE FULLY-ADHERED; 1/2" THICK LAYER OF COVERBOARD AND 1/4" PER FOOT TAPERED POLYISOCYANURATE INSULATION ADHERED WITH 2-PART LOW RISE FOAM ADHESIVE; SELF-ADHERED VAPOR RETARDER OVER EXISTING PRE-CAST CONCRETE DECK (TYP.).
2. NEW CLAMPING RING, STRAINER AND STAINLESS STEEL BOLTS AND WASHERS TO BE INSTALLED AT ROOF DRAIN (TYP.). SEE DETAIL 1 ON SHEET R-4 (TYP.).
3. NEW 24 GA SHEET METAL COPING CAP TO BE INSTALLED. SEE DETAIL 2 ON SHEET 4 (TYP.).
4. EXISTING PLUMBING VENT-THRU-ROOF (VTR) TO BE EXTENDED AS REQUIRED TO MEET 8" FLASHING HEIGHT AND RE-FLASHED. SEE DETAIL 3 ON SHEET R-4 (TYP.).
5. NEW EXHAUST FAN WITH NEW CURB TO BE INSTALLED (TYP.). SEE DETAIL 4 ON SHEET R-4 (TYP.).
6. 2 NEW EQUIPMENT SUPPORT CURBS TO BE INSTALLED. SEE DETAIL 4 ON SHEET R-4.
7. NEW 8"x4" SCUPPER TO BE INSTALLED (TYP.). SEE DETAIL 6 ON SHEET R-4 (TYP.).

1/8" = 1'-0" GRAPHIC SCALE 0 4' 8' 16' 24'

ISSUED FOR CONSTRUCTION

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GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 066 MICHAEL E. CLARK

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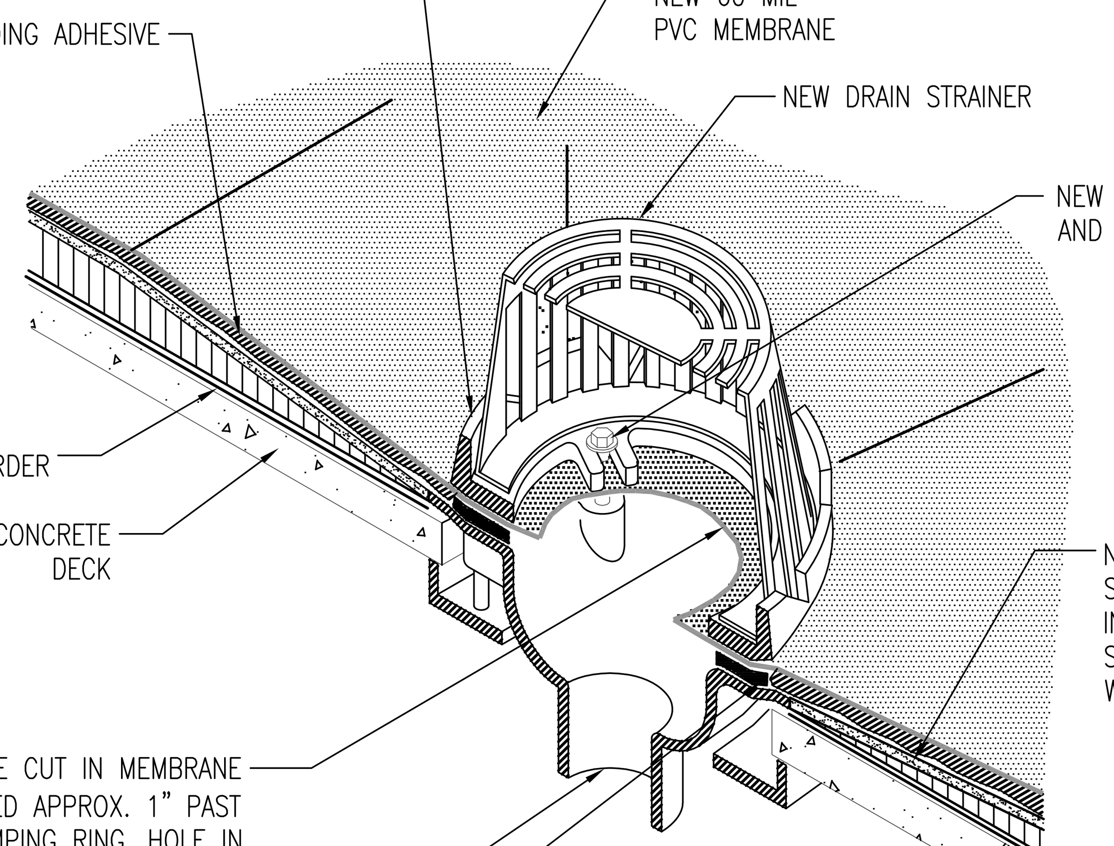
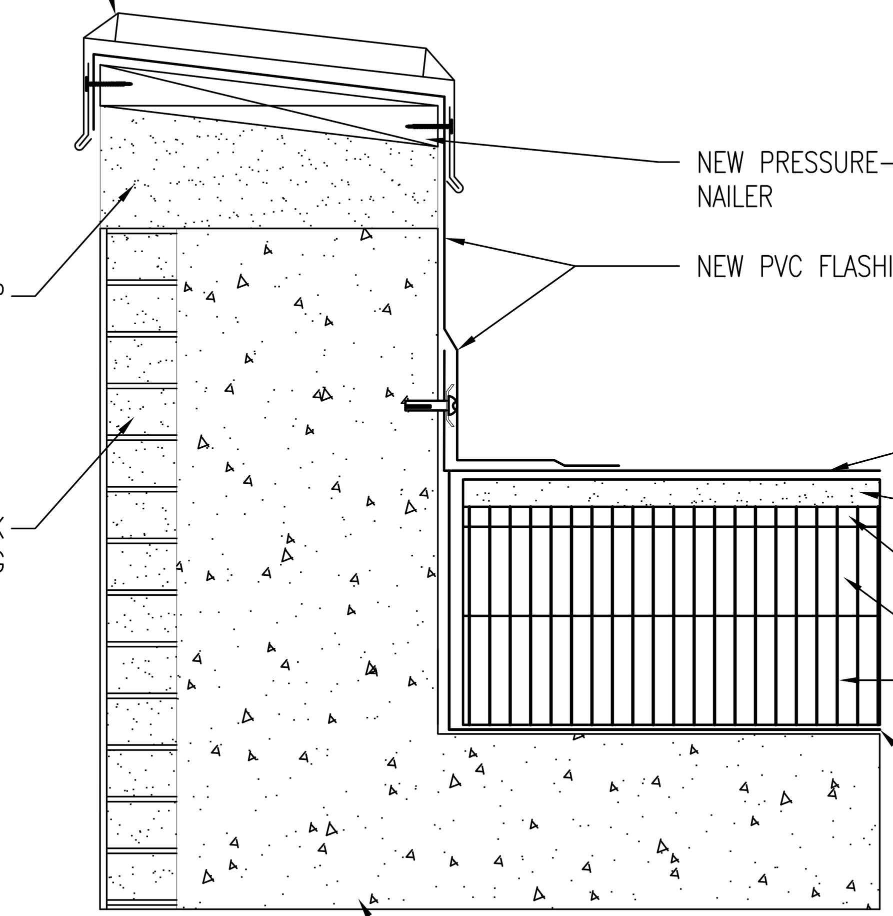
NEW WORK ROOF PLAN
MACON WATER AUTHORITY ROCKY CREEK
WASTEWATER TREATMENT PLANT
SLUDGE DEWATERING BUILDING
MACON, GA 31206

Drawn By	J.WARNER
Checked By	CLARK
Date	12/13/2024
Job No.	2024-35
Drawing Number	R-3

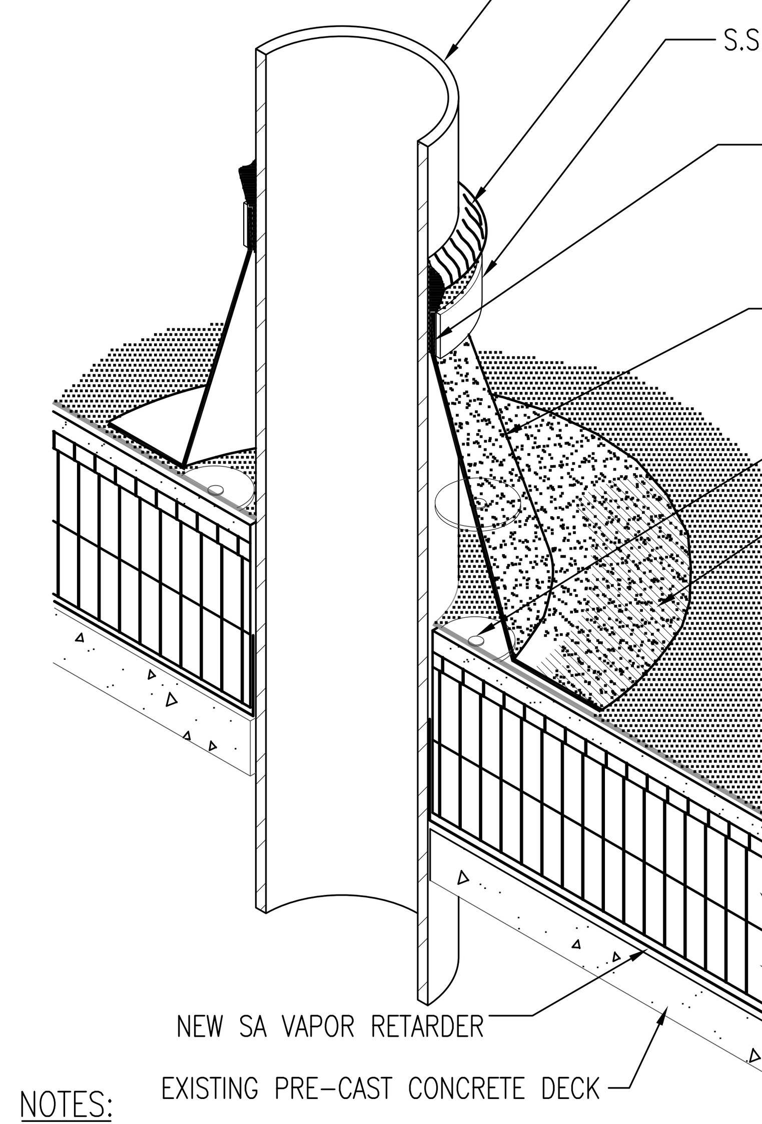


1 R3 R4 ROOF DRAIN FLASHING DETAIL
SCALE: NONE



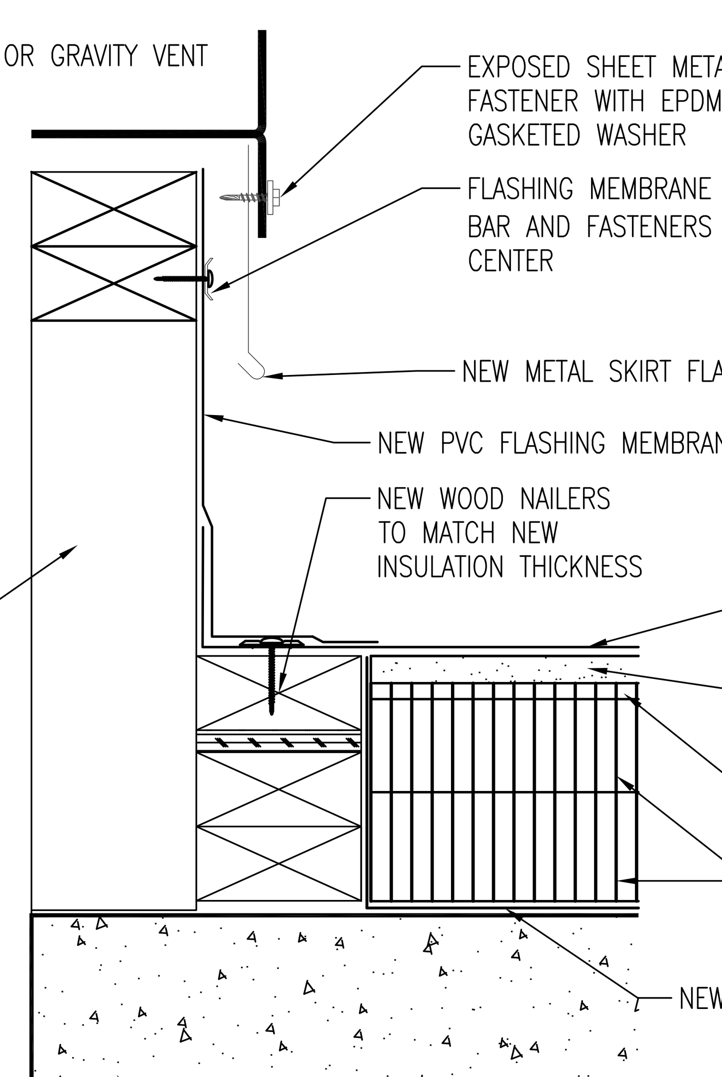
NOTE:
1. DETAIL TO BE USED IN CONJUNCTION WITH SPECIFICATION REQUIREMENTS FOR NAILERS, INSULATION ETC.
2. WOOD NAILER ATTACHMENT TO CONCRETE DECK NOT SHOWN FOR CLARITY. BOTTOM NAILER TO BE FASTENED TO CONCRETE DECK WITH S.S. CONCRETE SCREWS.
3. (SA) VAPOR RETARDER TO EXTEND UP WALL TO THE HEIGHT OF NEW INSULATION.

2 R3 R4 PARAPET WALL DETAIL
SCALE: NONE



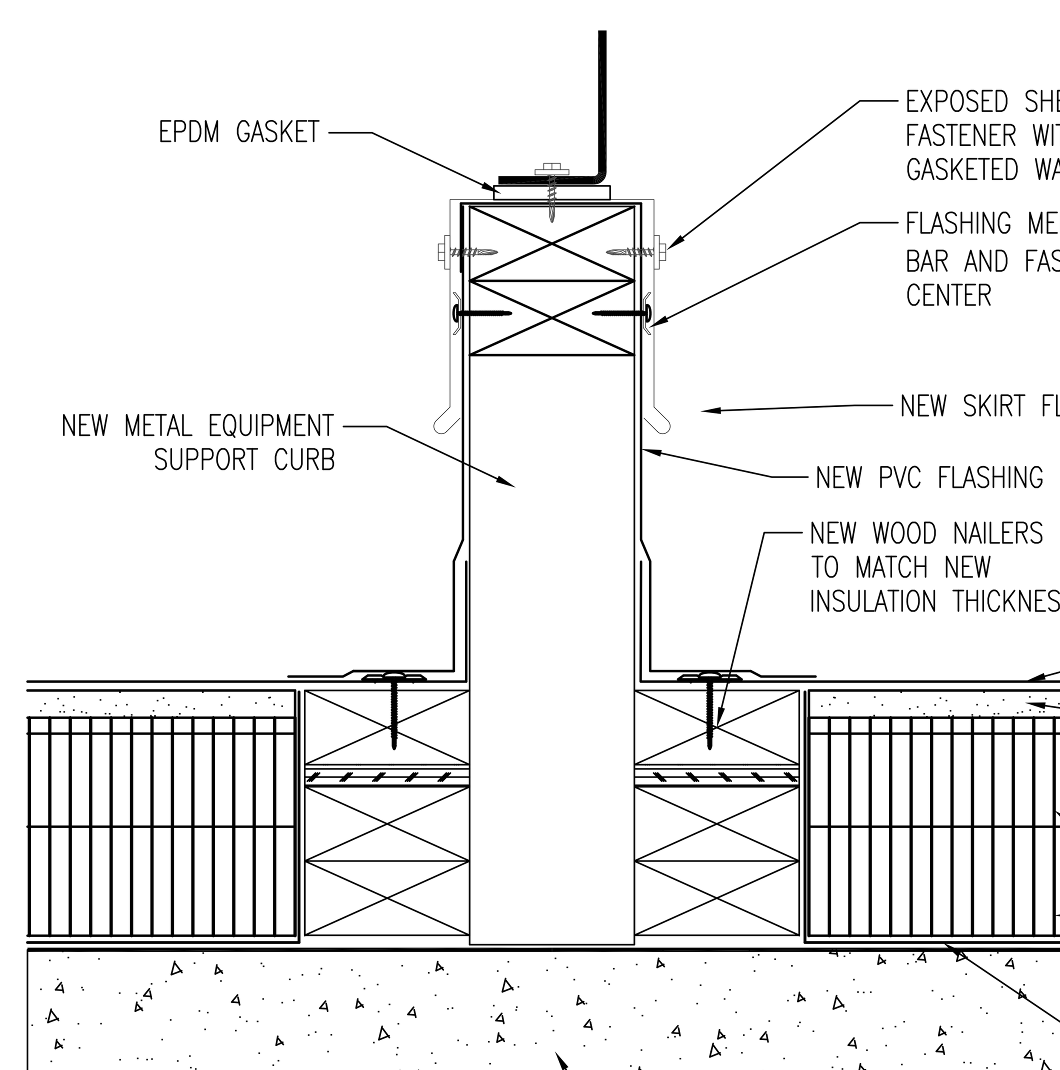
NOTES:
1. INSTALL MIN. OF FOUR FASTENERS AND PLATES OR MAX. 12" ON CENTER AROUND PENETRATION TO TERMINATE THE FIELD MEMBRANE.
2. INSTALL MANUFACTURER PREFABRICATED SPLIT BOOTS AS NEEDED.
3. VAPOR RETARDER TO FLASH PIPE PENETRATION OR BE SEALED TO PENETRATION.

3 R3 R4 PIPE PENETRATION DETAIL
SCALE: NONE



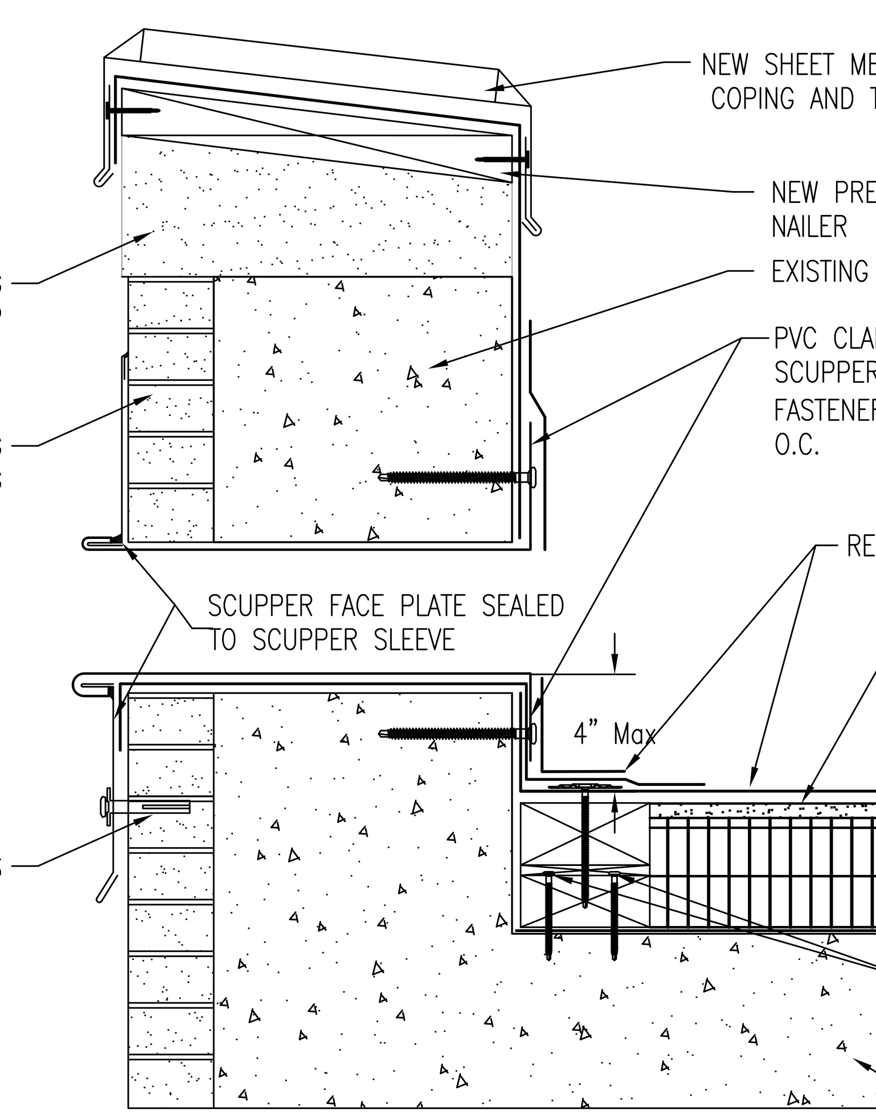
NOTE:
1. DETAIL TO BE USED IN CONJUNCTION WITH SPECIFICATION CONTAINING REQUIREMENTS FOR NAILERS, INSULATION ETC.
2. WOOD NAILER ATTACHMENT TO CONCRETE DECK NOT SHOWN FOR CLARITY. BOTTOM NAILER TO BE FASTENED TO CONCRETE DECK WITH S.S. CONCRETE SCREWS.

4 R3 R4 RECTANGULAR PENETRATION CURB FLASHING DETAIL
SCALE: NONE



NOTE:
1. DETAIL TO BE USED IN CONJUNCTION WITH SPECIFICATION CONTAINING REQUIREMENTS FOR NAILERS, INSULATION ETC.
2. WOOD NAILER ATTACHMENT TO CONCRETE DECK NOT SHOWN FOR CLARITY. BOTTOM NAILER TO BE FASTENED TO CONCRETE DECK WITH S.S. CONCRETE SCREWS.

5 R3 R4 EQUIPMENT SUPPORT CURB DETAIL
SCALE: NONE

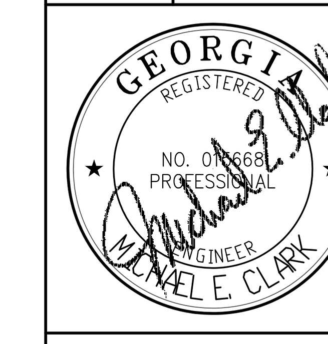


NOTE:
1. DETAIL TO BE USED IN CONJUNCTION WITH SPECIFICATION REQUIREMENTS FOR NAILERS, INSULATION, ETC.
2. SCUPPER SLEEVE TO BE SEALED WHERE IT CRIMPS TO FACE PLATE.
3. SCUPPER FACE PLATE TO BE SEALED ON THREE SIDES TO BRICK CLADDING. LEAVE BOTTOM OPEN FOR DRAINAGE.
4. SCUPPER FACE PLATE TO BE FASTENED ON BOTH SIDES AND THE BOTTOM USING DRIVE PIN ANCHORS.

6 R3 R4 NEW OVERFLOW SCUPPER DETAIL
SCALE: NONE

ISSUED FOR CONSTRUCTION

DATE	REVISIONS



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ROOF DETAILS
MACON WATER AUTHORITY ROCKY CREEK
WASTEWATER TREATMENT PLANT
SLUDGE DEWATERING BUILDING
MACON, GA 31206

Drawn By	J.WARNER
Checked By	CLARK
Date	12/13/2024
Job No.	2024-35
Drawing Number	R-4

SHEET 5 OF 12

LEGEND

GENERAL

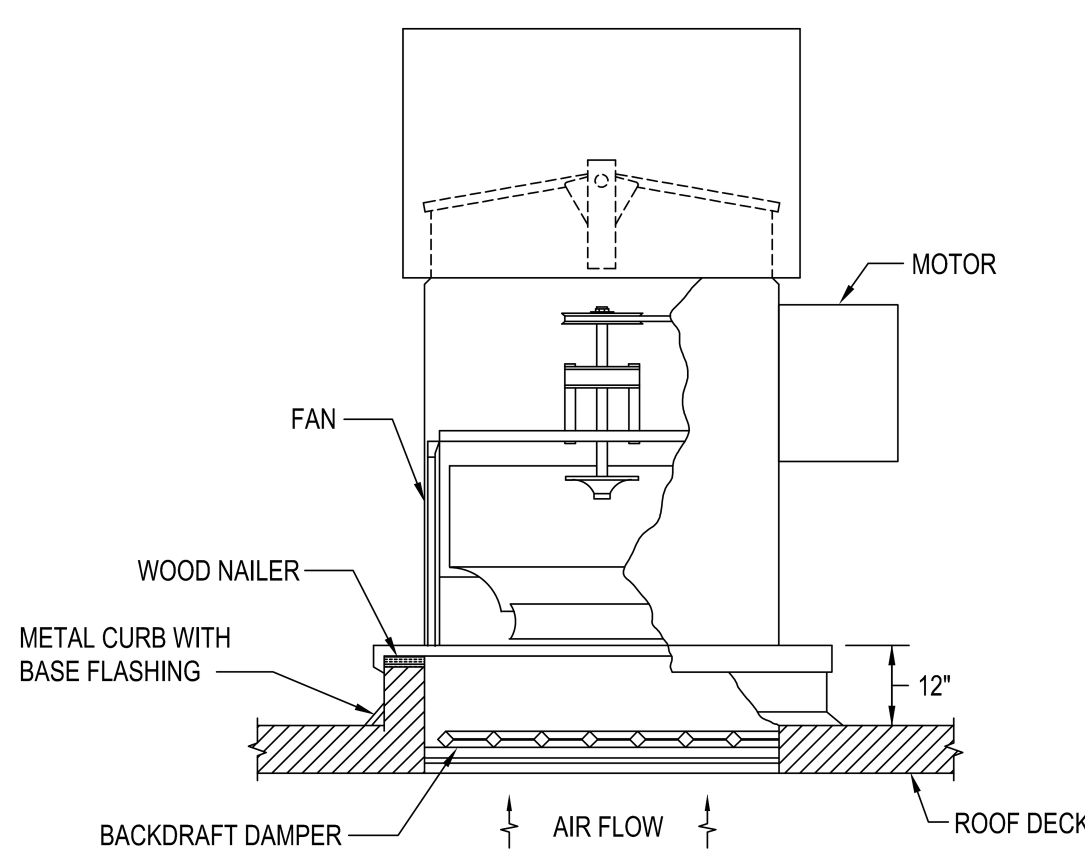
#	DEMOLITION NOTE IDENTIFICATION
#	CONSTRUCTION NOTE IDENTIFICATION
	INDICATES EXISTING ITEM
	INDICATES NEW ITEM
— — —	INDICATES ITEM TO BE REMOVED
AFF	ABOVE FINISH FLOOR
BE	BOTTOM ELEVATION
CFM	CUBIC FEET PER MINUTE
EA	EXHAUST AIR
ESP	EXTERNAL STATIC PRESSURE
FT	FEET
FPM	FEET PER MINUTE
HP	HORSEPOWER
IN	INCHES
IN WG / FT WG	INCHES WATER GAUGE / FEET WATER GAUGE
KW	KILOWATTS
MNFR	MANUFACTURER
MAX	MAXIMUM
MIN	MINIMUM
NO #	NUMBER
OPER	OPERATING
%	PERCENT
RPM	REVOLUTIONS PER MINUTE
W	WATT
WG	WEIGHT

DOUBLE LINE DUCTWORK

10X10	SQUARE OR RECTANGULAR DUCTWORK
	FLEXIBLE DUCT CONNECTION
	EXHAUST AIR DUCT TURNING UP (ROUND OR RECTANGULAR)
	EXHAUST AIR DUCT TURNING DOWN (ROUND OR RECTANGULAR)
	RETURN, EXHAUST OR TRANSFER AIR FLOW

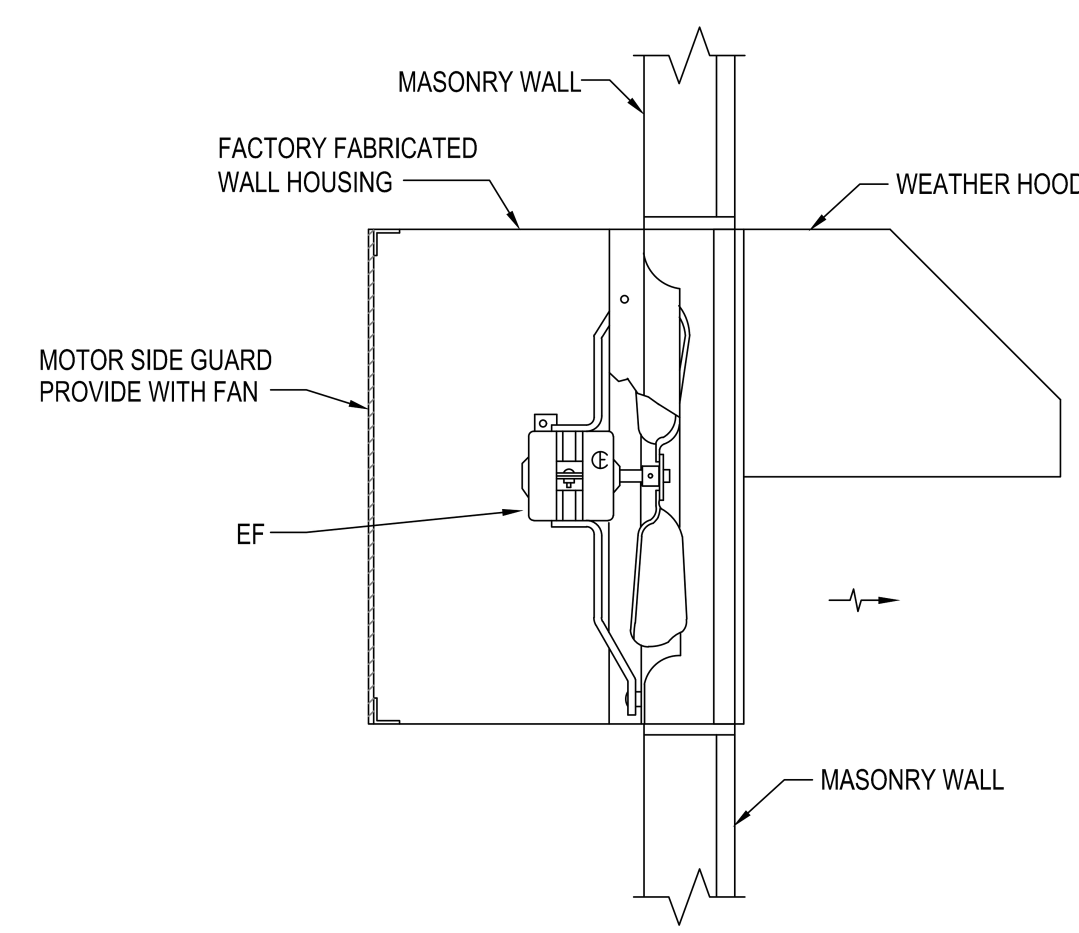
GENERAL NOTES

1. GENERAL NOTES ON THIS DRAWING ARE APPLICABLE TO EACH MECHANICAL DRAWING OF THIS SET.
2. PROVIDE COMPLETE EXHAUST SYSTEMS TO INCLUDE ALL LABOR, MATERIALS, TOOLS, AND EQUIPMENT FOR A COMPLETE AND FUNCTIONAL SYSTEM INCLUDING ALL NECESSARY APPURTENANCES CUSTOMARILY INCLUDED IF NOT SPECIFICALLY CALLED OUT.
3. CONFORM WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS OF MUNICIPAL, STATE AND FEDERAL AUTHORITIES.
4. CONFORM TO APPLICABLE ASHRAE, NFPA, AND SMACNA STANDARDS AND OTHER REGULATORY BODIES HAVING JURISDICTION OVER THE CLASS OF WORK.
5. MAKE TESTS FOR ACCEPTANCE OF EXHAUST SYSTEMS AS SPECIFIED IN SECTION 230593, TESTING, ADJUSTING, AND BALANCING FOR HVAC.
6. OBTAIN AND PAY FOR ALL PERMITS, LICENSES, DOCUMENTS, AND SERVICES RELATED TO INSTALLATION OF THE WORK.
7. COORDINATE WORK WITH THE OTHER TRADES IN ORDER TO RESOLVE ANY CONFLICT THAT MIGHT ARISE DUE TO THE LOCATION OF EQUIPMENT OR THE USE OF SPACE.
8. EQUIPMENT OF HIGHER ELECTRICAL CHARACTERISTICS MAY BE SUBSTITUTED PROVIDED SUCH PROPOSED EQUIPMENT IS APPROVED IN WRITING AND CONNECTING ELECTRICAL SERVICE, CIRCUIT BREAKERS, AND CONDUIT SIZES ARE APPROPRIATELY MODIFIED AT NO COST TO THE OWNER.
9. MAKE DUCT PENETRATIONS OF ROOF AND WALLS WITH SHEET METAL DUCTS.
10. LAYOUT OF EQUIPMENT IS DIAGRAMMATIC. FIELD VERIFICATION OF AVAILABLE SPACE IS REQUIRED PRIOR TO ORDERING EQUIPMENT AND MATERIALS.
11. INSTALL MECHANICAL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE, AND REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS. CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH A MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS. PIPING SHALL NOT INTERFERE WITH FILTER PULL. MAINTAIN EQUIPMENT MANUFACTURER'S RECOMMENDED MINIMUM SERVICE CLEARANCE.
12. RE-USE EXISTING CONTROL DEVICES, SUCH AS TEMPERATURE SENSORS, RELAYS, SWITCHES, ETC. WHICH ARE ASSOCIATED WITH MECHANICAL EQUIPMENT. PROVIDE CONTROL WIRING FROM CONTROL DEVICES TO FAN POWER WIRING. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL WORK REQUIRED TO PROVIDE POWER TO EQUIPMENT.
13. ALL CONTROL WIRING SHALL BE RUN IN CONDUIT. NO BARE WIRING SHALL BE EXPOSED. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
14. ALL EQUIPMENT REMOVED FROM THE BUILDING, DURING DEMOLITION, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE NOTED.
15. EXISTING DIMENSIONS NOTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT WARRANTED TO BE CORRECT. FIELD VERIFY ALL EXISTING DUCT AND EQUIPMENT SIZES AND THEIR RESPECTIVE LOCATIONS BEFORE PROCEEDING WITH ANY ASSOCIATED WORK.
16. PRIOR TO SUBMITTING A PROPOSAL, THE CONTRACTOR IS STRONGLY ENCOURAGED TO VISIT THE SITE AND THOROUGHLY INSPECT ALL EXISTING CONDITIONS TO ENSURE THAT THE WORK REPRESENTED ON THE DRAWINGS CAN BE INSTALLED AS INDICATED.
17. REFER TO ELECTRICAL DRAWINGS FOR VOLTAGE AND PHASE REQUIREMENTS FOR ALL EQUIPMENT REQUIRING AN ELECTRICAL CONNECTION.



ROOF EXHAUST FAN DETAIL

NO SCALE



WALL MOUNTED EXHAUST FAN DETAIL

NO SCALE

FAN SCHEDULE

MARK	LOCATION SERVED	BASIS OF DESIGN	CFM	ESP (IN W.C.)	DRIVE	HP	WEIGHT (LBS)	NOTES
EF-1	PRESS FLOOR	GREENHECK TAUB-CA-24-7	4,750	0.125	BELT	0.75	400	1,4,7
EF-2	PRESS FLOOR	GREENHECK TAUB-CA-24-7	4,750	0.125	BELT	0.75	400	1,4,7
EF-3	CHEM FEED ROOM	GREENHECK QEI-12	2,190	0.125	BELT	0.75	400	1,4,7
EF-4	SLUDGE PUMP ROOM	GREENHECK TAUB-CA-20-10	3,840	0.360	BELT	1	300	1,4,6,7
EF-5	PRESS FLOOR	GREENHECK AER-30	10,000	0.125	DIRECT	1.5	280	2,4,7
EF-6	PRESS FLOOR	GREENHECK AER-30	10,000	0.125	DIRECT	1.5	280	2,4,7
EF-7	LAB	TWIN CITY DCRD-080B	430	0.250	DIRECT	0.13	--	5
EF-8	MECH ROOM	GREENHECK G-120-A	1,400	0.125	DIRECT	0.5	90	3,4

NOTES:
1. ROOFTOP, UPBLAST, TUBE-AXIAL OR MIXED FLOW, EXHAUST FAN WITH BACKDRAFT DAMPER, BIRD SCREEN, CORROSION RESISTANT COATING, ROOF CURB.
2. WALL PROPELLER EXHAUST FAN WITH WALL HOUSING, BIRD SCREEN, WEATHER HOOD, SPEED CONTROLLER, AND OSHA MOTOR SIDE GUARD.
3. ROOFTOP, DOWNBLAST, CENTRIFUGAL EXHAUST FAN WITH BACKDRAFT DAMPER, BIRD SCREEN, SPEED CONTROLLER, AND ROOF CURB.
4. TEST AND BALANCE FAN TO PERFORMANCE SCHEDULED.
5. EXISTING FAN TO BE BALANCED TO PERFORMANCE SCHEDULED. PROVIDE ROOF CURB. (SEE KEY NOTE 2 ON ROOF PLAN, SHEET M-3.)
6. CONNECT FAN TO EXISTING 36X18 DUCT DOWN THROUGH FLOOR BELOW.
7. PROVIDE SPARK RESISTANT FAN WHEEL (MINIMUM OF TYPE C) AND EXPLOSION PROOF MOTOR.

1/8" = 1'-0"   0 4' 8' 16' 24'

GRAPHIC SCALE

ISSUED FOR CONSTRUCTION

DATE	REVISIONS

GEORGIA REGISTERED NO. 25322 PROFESSIONAL 12·10·2024 ENGINEER RICHARD H. FUNK

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LEGEND, NOTES, SCHEDULES AND DETAILS
MACON WATER AUTHORITY ROCKY CREEK
WASTEWATER TREATMENT PLANT
SLUDGE DEWATERING BUILDING
MACON, GA 31201

Drawn By	LDT
Checked By	RHF
Date	12/13/2024
Job No.	2024-35
Drawing Number	M-1

GENERAL NOTES

A. REFER TO GENERAL NOTES ON M-1.
B. CONTROLS FOR EXISTING FANS ARE TO BE RE-USED.

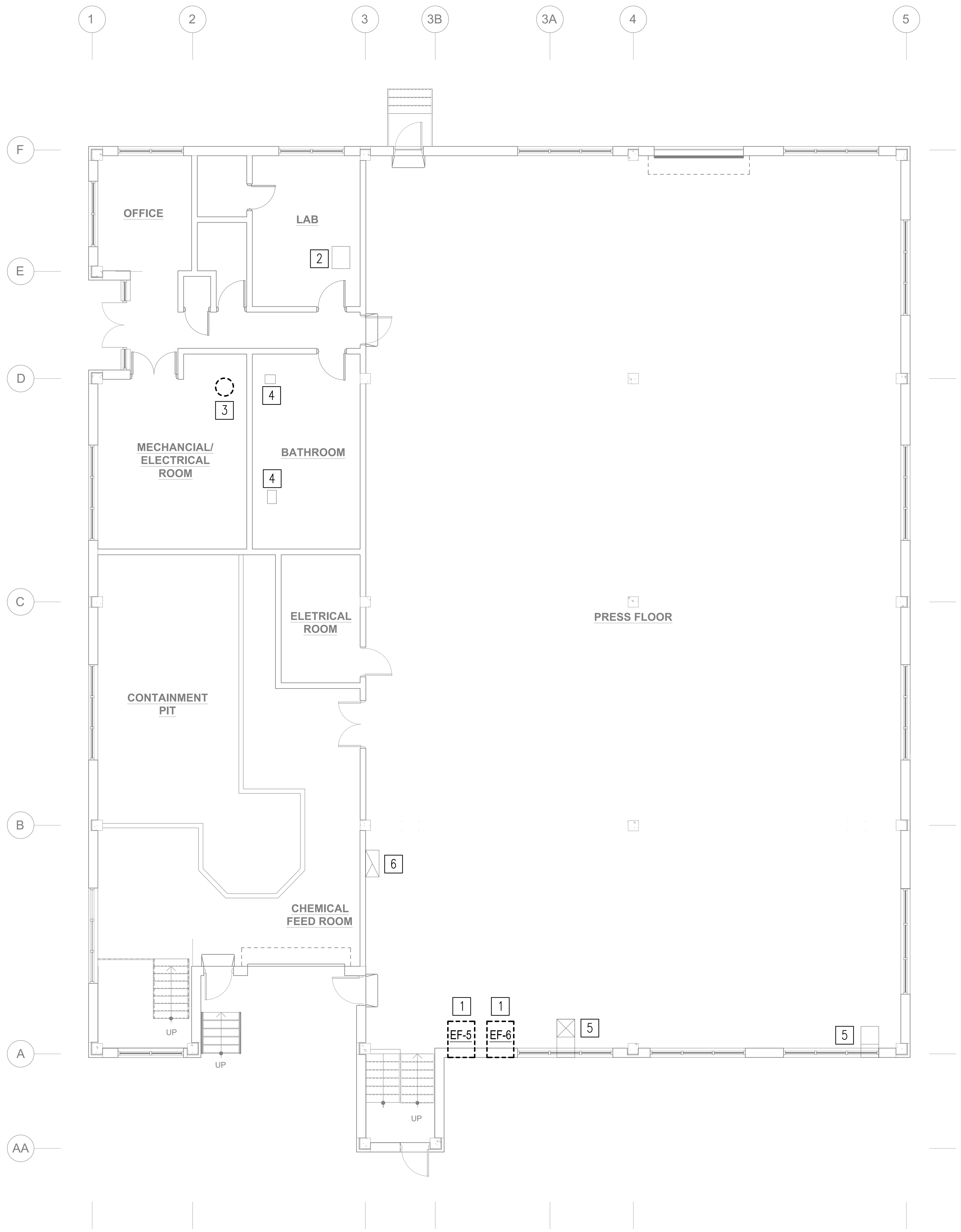
DEMOLITION NOTES

FLOOR PLAN

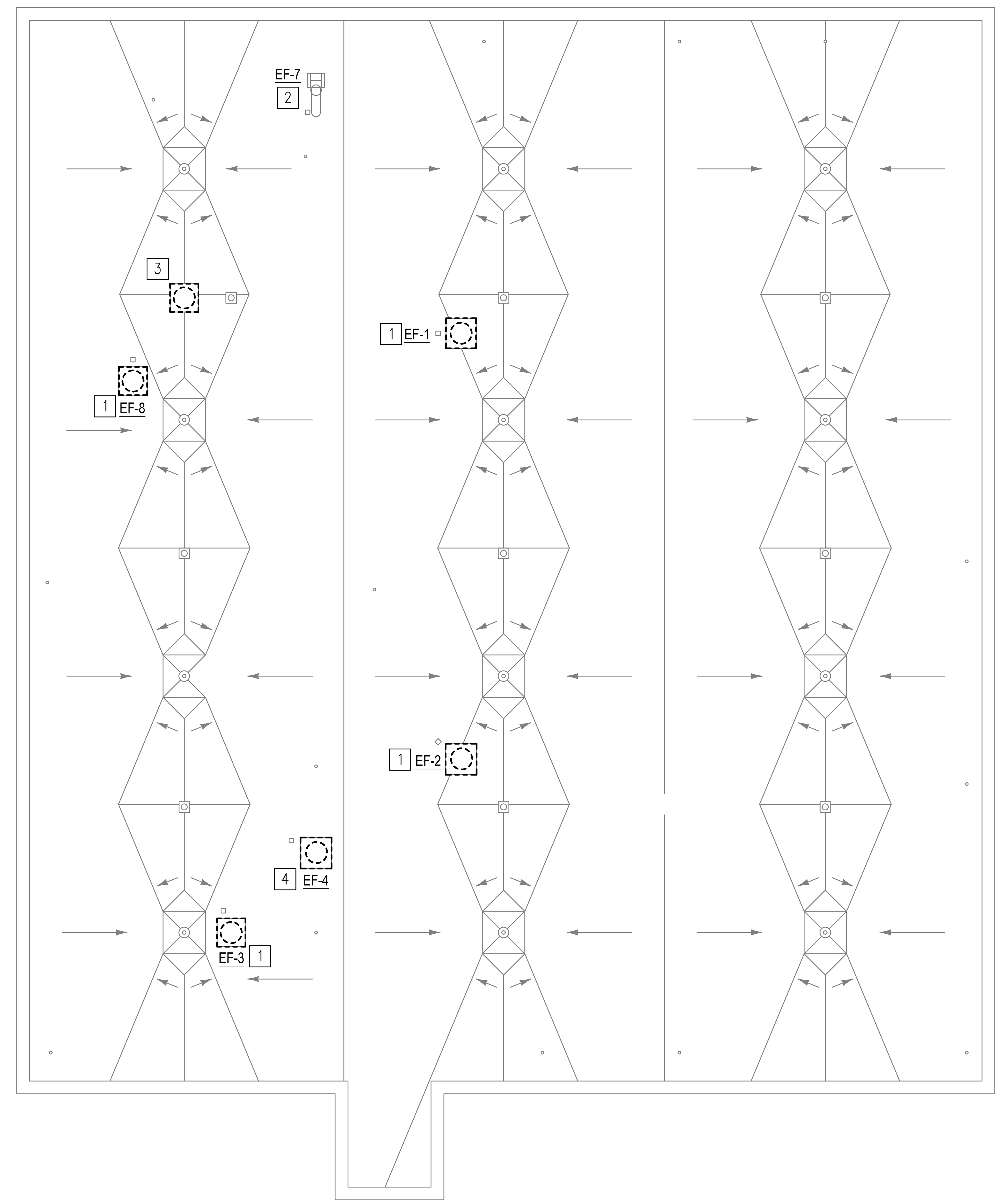
1. DEMOLISH EXHAUST FAN, WALL HOUSING, AND OUTLET SHUTTER. WALL PENETRATION LOCATION WILL BE RE-USED FOR REPLACEMENT FAN.
2. EXHAUST HOOD TO REMAIN.
3. DEMOLISH BOILER VENT, PREVIOUSLY USED BY A BOILER THAT IS NOW ABANDONED IN PLACE.
4. TOILET/LOCKER ROOM CEILING EXHAUST FAN TO REMAIN.
5. EXHAUST FAN AND ASSOCIATED INLET DUCT TO REMAIN.
6. EXHAUST DUCT THROUGH FLOOR TO REMAIN FOR RE-USE; ASSOCIATED WITH FAN EF-4.

ROOF PLAN

1. DEMOLISH EXHAUST FAN AND ROOF CURB. ROOF PENETRATION LOCATION WILL BE RE-USED FOR REPLACEMENT FAN AND CURB. FAN HAS NO DUCT EXTENDING BELOW BOTTOM OF ROOF ELEVATION.
2. ROOFTOP FAN TO BE RE-USED. FAN MUST BE TEMPORARILY REMOVED AND RE-INSTALLED AFTER CURB MODIFICATIONS. EXTEND DUCT MATCHING EXISTING MATERIALS AND CONSTRUCTION FOR MODIFIED FAN HEIGHT.
3. DEMOLISH ROOF PENETRATION, INCLUDING CURB AND BOILER VENT, PREVIOUSLY USED BY A BOILER THAT IS NOW ABANDONED IN PLACE.
4. DEMOLISH EXHAUST FAN AND ROOF CURB. ROOF PENETRATION LOCATION WILL BE RE-USED FOR REPLACEMENT FAN AND CURB. DUCT BELOW ROOF SHALL REMAIN FOR RE-USE.



FLOOR PLAN – DEMOLITION
SCALE: 1/8"=1'-0"



ROOF PLAN – DEMOLITION
SCALE: 1/8"=1'-0"

1/8" = 1'-0" 0 4' 8' 16' 24'
GRAPHIC SCALE
ISSUED FOR CONSTRUCTION

DATE	REVISIONS

GEORGIA REGISTERED NO. 25322 PROFESSIONAL 12-10-2024 ENGINEER RICHARD H. FUNK

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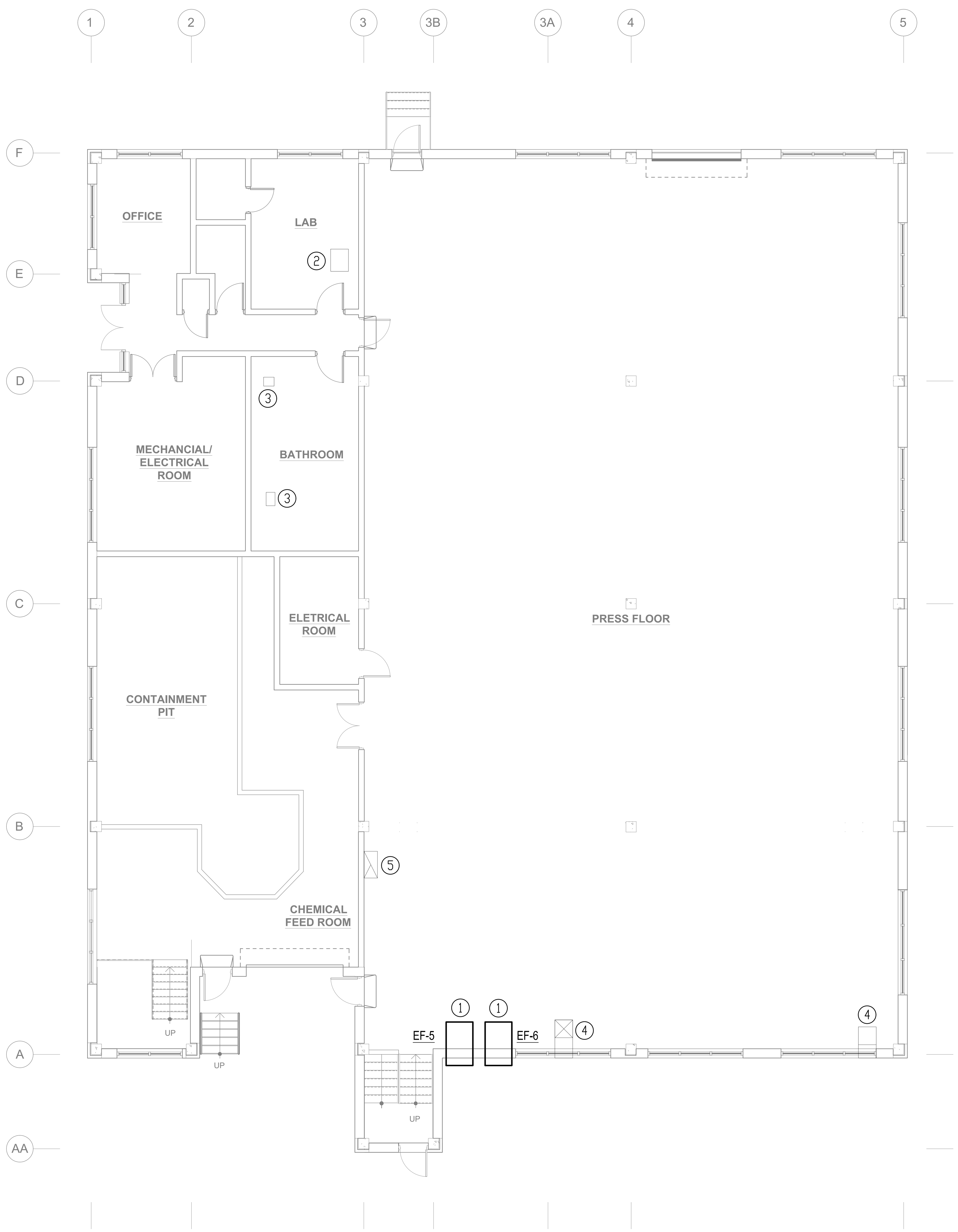
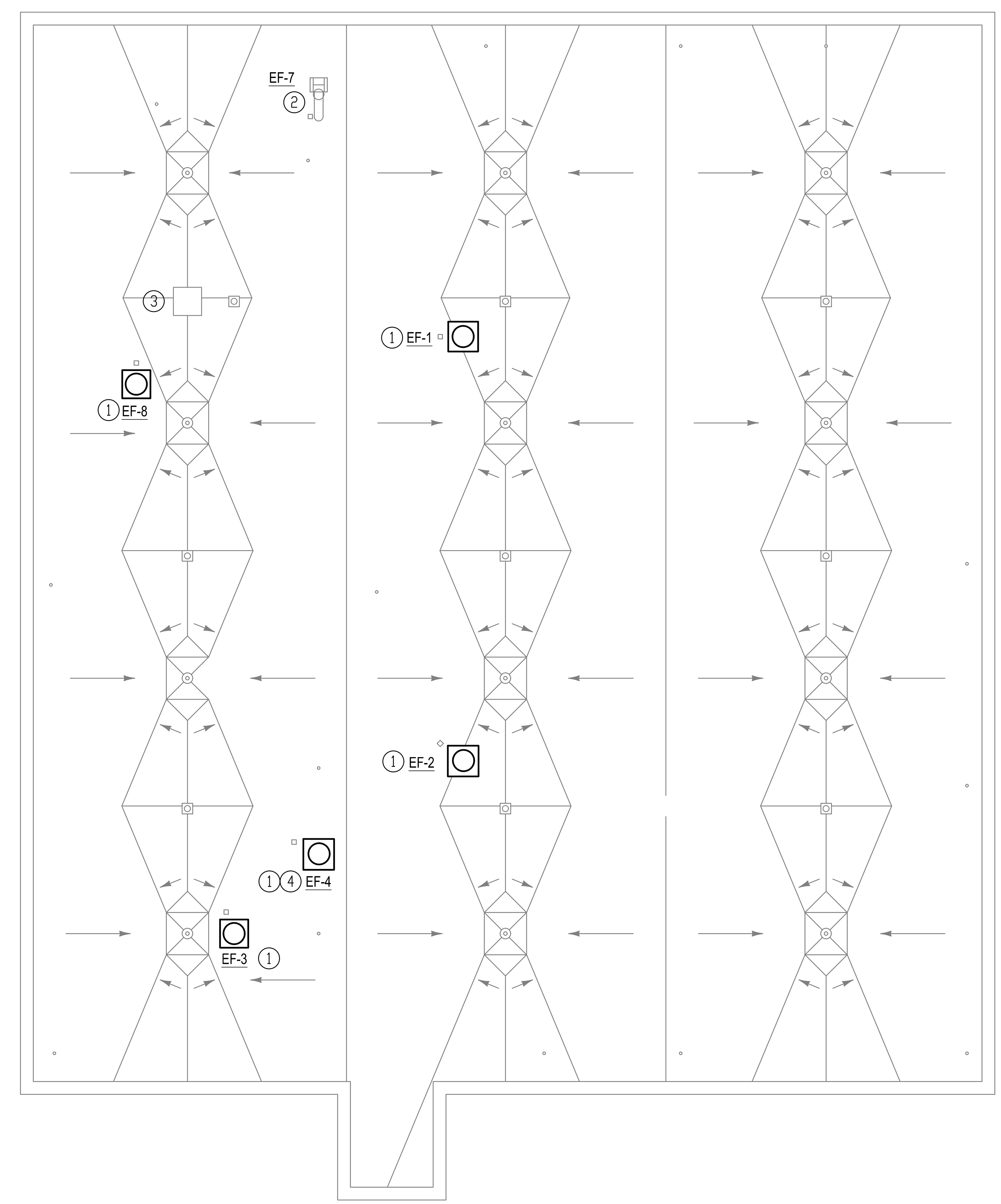
DEMOLITION PLANS
MACON WATER AUTHORITY ROCKY CREEK WASTEWATER TREATMENT PLANT
SLUDGE DEWATERING BUILDING
MACON, GA 31201

Drawn By	LDT
Checked By	RHF
Date	12/13/2024
Job No.	2024-35
Drawing Number	M-2



FLOOR PLAN – NEW WORK
SCALE: 1/8"=1'-0"



ROOF PLAN – NEW WORK
SCALE: 1/8"=1'-0"

GENERAL NOTES

A. REFER TO GENERAL NOTES ON M-1.
B. CONTROLS FOR EXISTING FANS ARE TO BE RE-USED.

NEW WORK NOTES

FLOOR PLAN
1. PROVIDE EXHAUST FAN, WALL HOUSING, AND OTHER ACCESSORIES SCHEDULED AT LOCATION OF EXISTING WALL PENETRATION.
2. EXHAUST HOOD TO REMAIN.
3. TOILET/LOCKER ROOM CEILING EXHAUST FAN TO REMAIN.
4. EXHAUST FAN AND ASSOCIATED INLET DUCT TO REMAIN.
5. EXHAUST DUCT THROUGH FLOOR TO REMAIN FOR RE-USE; ASSOCIATED WITH FAN EF-4.

ROOF PLAN
1. PROVIDE EXHAUST FAN AND ROOF CURB AT LOCATION OF EXISTING ROOF PENETRATION.
2. ROOFTOP FAN TO BE RE-USED. FAN MUST BE TEMPORARILY REMOVED AND RE-INSTALLED; PROVIDE ROOF CURB ADDED AT EXISTING ROOF PENETRATION. FAN'S CURB CAP IS 17"X17". EXHAUST DUCT THROUGH CURB IS 10"X10" AND IS STAINLESS STEEL.
3. REFER TO ROOF REPAIR DRAWINGS FOR REPAIRS REQUIRED AT ROOF PENETRATION TO BE ELIMINATED.
4. RECONNECT EXISTING DUCT BELOW ROOF TO FAN.

1/8" = 1'-0" 0 4' 8' 16' 24'

GRAPHIC SCALE

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NEW WORK PLANS
MACON WATER AUTHORITY ROCKY CREEK
WASTEWATER TREATMENT PLANT
SLUDGE DEWATERING BUILDING
MACON, GA 31201

Drawn By	LDT
Checked By	RHF
Date	12/13/2024
Job No.	2024-35
Drawing Number	M-3

GENERAL

1	DEMOLITION NOTE IDENTIFICATION
1	CONSTRUCTION NOTE IDENTIFICATION
	HALFTONE SOLID INDICATES EXISTING ITEM AND/OR NO WORK ON SHEET
	DARK AND DASHED INDICATES ITEM TO BE REMOVED (SEE LEGEND NOTE 2)
	DARK AND SOLID INDICATES NEW ITEM
	POINT OF DEMOLITION
	POINT OF CONNECTION NEW-TO-EXISTING (SEE LEGEND NOTE 3)

POWER DEVICES

DUPLEX CONVENIENCE RECEPTACLE WITH INTEGRAL GROUND FAULT (GFI) PROTECTION - 20A, 125VAC. MOUNT 18" AFF UON.

RECEPTACLE DEVICE TAG:

- 'WP' INDICATES WEATHER-RESISTANT OUTLET WITH WHILE-IN-USE WEATHERPROOF COVER.

DISTRIBUTION

PANELBOARD - 480Y/277V

PANELBOARD - 208Y/120V

WIRE, CONDUIT AND RACEWAY

BRANCH CIRCUIT OR FEEDER WIRING IN CONDUIT.

LAF- 1,3 HOMERUN TO PANEL. PANEL AND CIRCUIT NUMBERS AS INDICATED.

CONDUIT TURNED UP

CONDUIT TURNED DOWN

EQUIPMENT CONNECTIONS

3P $\frac{60}{40}$ DISCONNECT SWITCH. REFER TO EQUIPMENT CONNECTION SHCHEDULE SHEET EP601 FOR SIZE AND TYPE. OTHERWISE, PROVIDE 600V IN NEMA 3R ENCLOSURE UON. 3P = NO. OF POLES, 60 = SWITCH RATING, 40 = FUSE RATING (NF INDICATES NON-FUSIBLE) (SEE LEGEND NOTE 4).

DISCONNECT SWITCH PROVIDED INTEGRAL WITH EQUIPMENT

SM MOTOR RATED SWITCH. MOUNT 46" AFF UON.

GENERAL NOTES

A. WIRING SHALL BE IN CONDUIT AS INDICATED OR REQUIRED BY NEC.
B. WIRE AND CABLE SHALL BE #12AWG MINIMUM.
C. OPENINGS CREATED IN A FIRE OR SMOKE RATED WALL OR FLOOR BY PROVISION OF ANY ELECTRICAL DEVICE OR CONDUIT, SHALL BE SEALED AFTER THE WORK IS COMPLETED WITH A UL APPROVED FIRE/SMOKE SEALANT APPROPRIATE TO RE-ESTABLISH THE PREVIOUS RATING OF THE WALL OR FLOOR.
D. INSTALLATION OF ELECTRICAL SCOPE IN CLASSIFIED AREAS SHALL COMPLY WITH INSTALLATION REQUIREMENTS DEFINED IN NFPA 820.
E. 20A., 120V BRANCH CIRCUIT VOLTAGE DROP MINIMUM SIZES
   a. #10 AWG FROM 100' TO 150'
   b. #8 AWG FROM 151' TO 200'

LEGEND NOTES

1. WIRE AND CONDUIT FOR MOTOR AND EQUIPMENT LOADS SHALL BE CONTINUOUS IN SIZE AND COUNT FROM SOURCE TO FINAL CONNECTION.
2. WHERE EQUIPMENT OR DEVICES ARE NOTED AS "REMOVE", REMOVE CONDUCTORS ASSOCIATED WITH THESE ITEMS TO THE EXISTING MOTOR CONTROL CENTER. REMOVE CONDUITS FROM THESE CIRCUITS WHERE THEY RUN EXPOSED OR IN CEILING OR FLOOR PLENUMS. CONDUITS RUN CONCEALED IN WALLS OR FLOOR SLABS SHALL BE CUT OFF FLUSH WITH SURFACE AND ABANDONED. VOIDS IN WALLS OR FLOOR SLABS LEFT BY THE REMOVAL OF ELECTRICAL EQUIPMENT OR CONDUITS SHALL BE FILLED WITH NON-SHRINK GROUT AND FINISHED TO MATCH EXISTING ADJACENT SURFACES.
3. WHERE A NEW-TO-EXISTING CONNECTION IS INDICATED, PROVIDE MATERIALS AND LABOR REQUIRED TO MAKE THE CONNECTION.
4. AN (*) IN THE FUSE RATING OR TRIP RATING POSITION FOR THIS SYMBOL INDICATES TO PROVIDE FUSE OR BREAKER TRIP RATING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

ABBREVIATIONS

A	AMPERE	MIN	MINIMUM
A/C	AIR CONDITIONING	MLO	MAIN LUG ONLY
AF	AMPERE FRAME	MT	MOUNT
AFF	ABOVE FINISHED FLOOR	MTD	MOUNTED
AFG	ABOVE FINISHED GRADE	MTG HT	MOUNTING HEIGHT
AHU	AIR HANDLING UNIT	NEC	NATIONAL ELECTRICAL CODE
AT	AMPERE TRIP	NEU	NEUTRAL
AWG	AMERICAN WIRE GAUGE	NIC	NOT IN CONTRACT
BG	BELOW GRADE	NTS	NOT TO SCALE
BLDG	BUILDING	P	POLE
BKR	BREAKER	PH	PHASE
C	CONDUIT	PNL	PANEL
CB	CIRCUIT BREAKER	PVC	RIGID POLYVINYL CHLORIDE CONDUIT
CKT	CIRCUIT	QTY	QUANTITY
DISC	DISCONNECT SWITCH	RCPT	RECEPTACLE
DWG	DRAWING	REQ'D	REQUIRED
EA	EACH	RGS	RIGID GALVANIZED STEEL
EC	EMPTY CONDUIT	RM	ROOM
EF	EXHAUST FAN	RMC	RIGID METAL CONDUIT
ELEC	ELECTRICAL	SM	SURFACE MOUNT
EMT	ELECTRICAL METALLIC TUBING	S/N	SOLID NEUTRAL
EQUIP	EQUIPMENT	SW	SWITCH
E	EXISTING	UON	UNLESS OTHERWISE NOTED
FLA	FULL LOAD AMPS	UNK	UNKNOWN
GND	GROUND	V	VOLTS
KAIC	THOUSAND AMP INTERRUPTING CAPACITY RMS SYMMETRICAL	VAC	VOLTS ALTERNATING CURRENT
		W	WIRE
KCMIL	THOUSAND CIRCULAR MILS	W/G	WITH GROUND
KVA	KILOVOLT AMPERE	WH	WATER HEATER
MCA	MINIMUM CIRCUIT AMPACITY	WP	INDICATES WEATHERPROOF
MCB	MAIN CIRCUIT BREAKER	XFMR	TRANSFORMER
MCC	MOTOR CONTROL CENTER	Ø	PHASE

ISSUED FOR CONSTRUCTION

DATE	REVISIONS

NORTH CAROLINA PROFESSIONAL SEAL 056346 ENGINEER WAYNE C. GILL
12/13/2024

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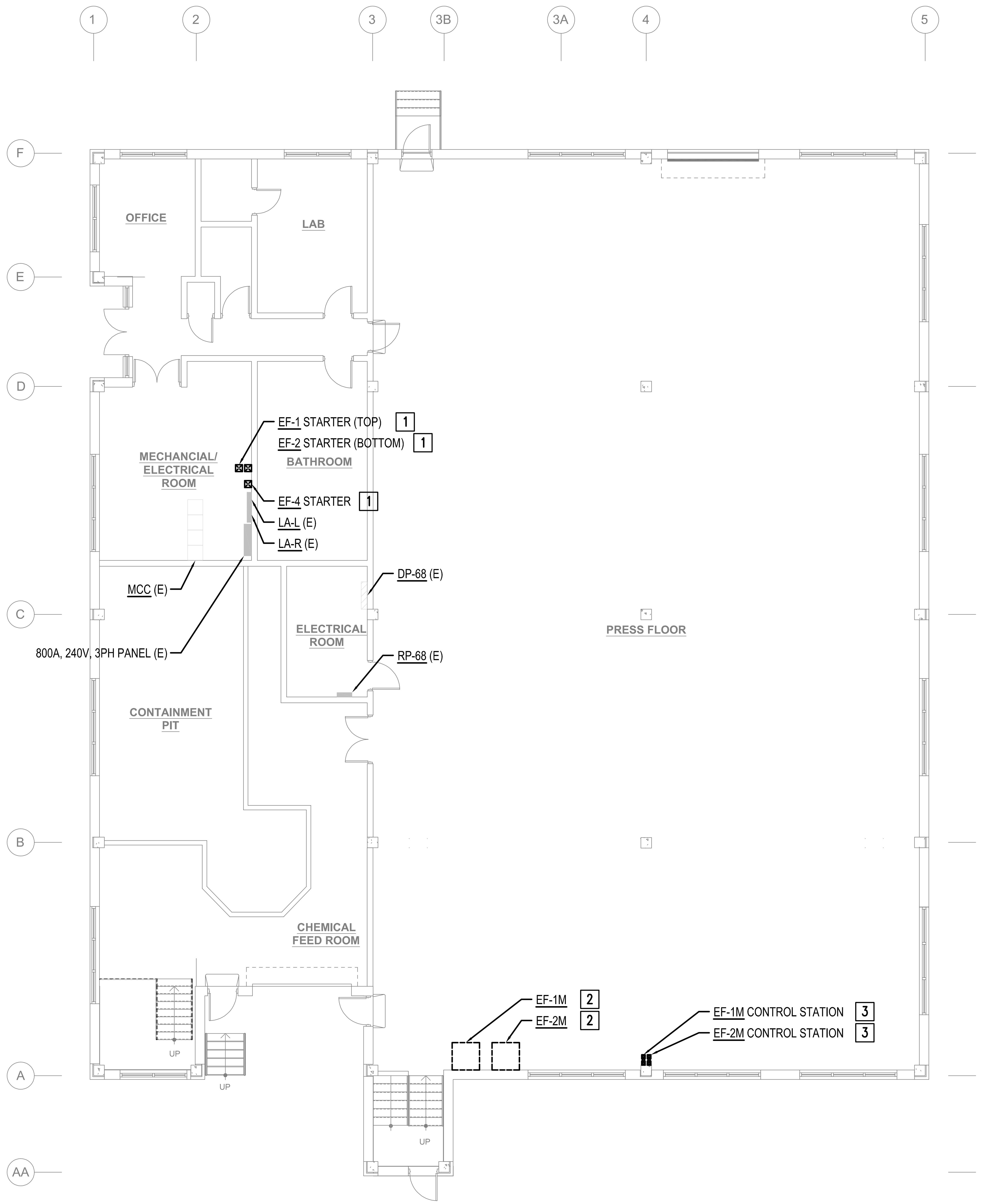
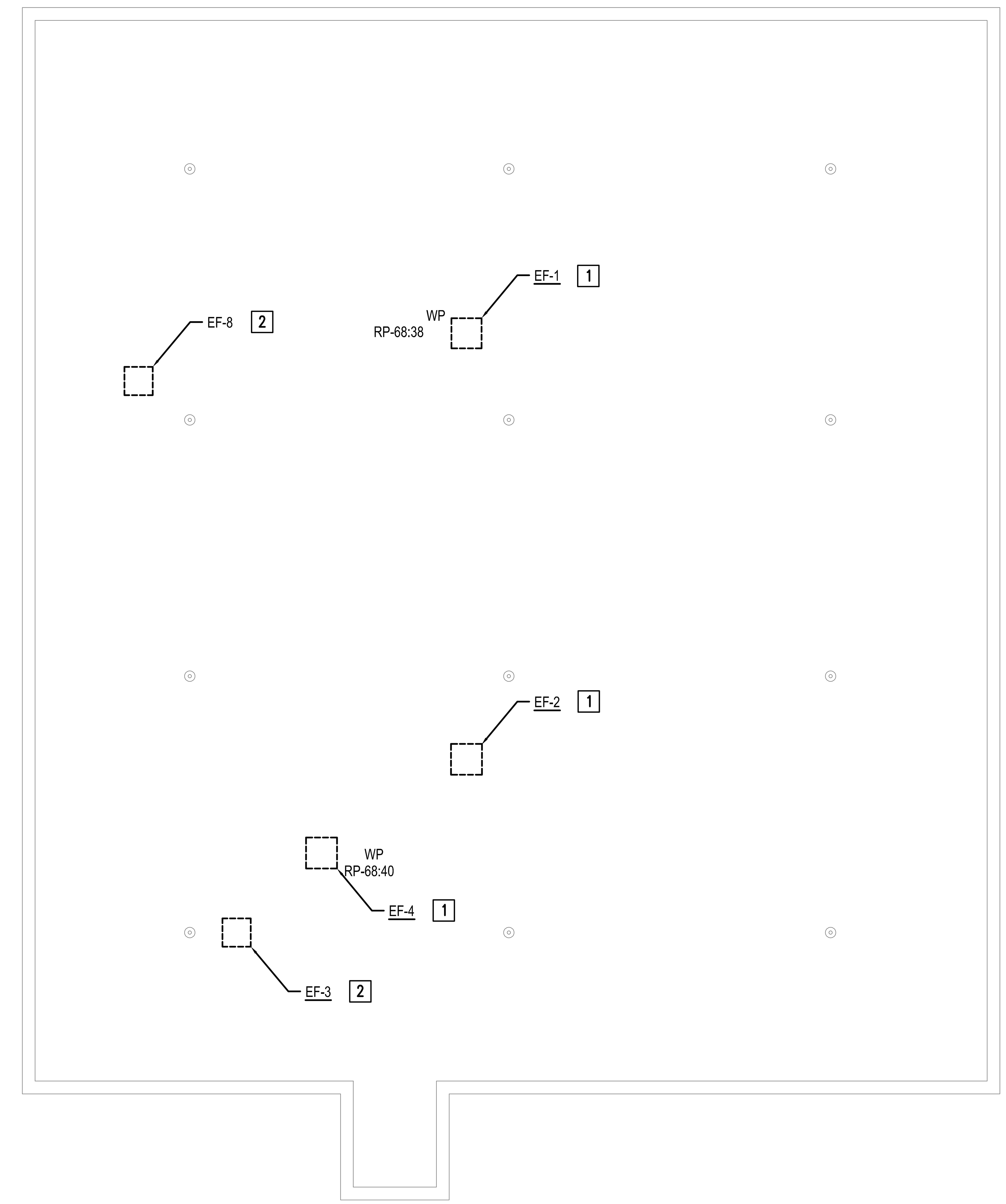
LEGEND AND NOTES
MACON WATER AUTHORITY ROCKY CREEK WASTEWATER TREATMENT PLANT
SLUDGE DEWATERING BUILDING
MACON, GA 31201

Drawn By	DG
Checked By	JD
Date	12/13/2024
Job No.	2024-35
Drawing Number	E-1



ELECTRICAL FLOOR PLAN – DEMOLITION

SCALE: 1/8"=1'-0"



ELECTRICAL ROOF PLAN – DEMOLITION

SCALE: 1/8"=1'-0"

DEMOLITION NOTES

FLOOR PLAN

1. DISCONNECT AND REMOVE EXISTING 480-VOLT, 3-PHASE MOTOR STARTER. DISCONNECT AND REMOVE POWER CIRCUIT CONDUCTORS BETWEEN UNIT AND MCC. DISCONNECT AND REMOVE 120-VOLT, 1-PHASE CONTROL CIRCUIT CONDUCTORS AND CONDUIT BETWEEN UNIT AND SOURCE.
2. EXISTING WALL-MOUNTED EXHAUST FAN TO BE REMOVED. DISCONNECT AND REMOVE CIRCUIT CONDUCTORS AND CONDUIT BETWEEN UNIT AND MCC.
3. DISCONNECT AND REMOVE EXISTING 3-BUTTON PUSHBUTTON CONTROL STATION FOR WALL-MOUNTED EXHAUST FAN. MAINTAIN RELATED CIRCUITING FOR REUSE AND RECONNECTION.

ROOF PLAN

1. EXISTING ROOF-MOUNTED EXHAUST FAN TO BE REMOVED. DISCONNECT AND REMOVE CIRCUIT CONDUCTORS BETWEEN UNIT AND MOTOR STARTER. DISCONNECT AND REMOVE LOCAL DISCONNECTING MEANS WHERE APPLICABLE. MAINTAIN EXISTING CONDUIT PENETRATING THE ROOF FROM THE FINAL FLEXIBLE CONNECTION TO UNIT BACK TO AN ACCESSIBLE INTERCEPTION LOCATION WITHIN THE FACILITY INTERIOR. REMOVE FINAL FLEXIBLE CONNECTION TO THE UNIT. REMOVE REMAINING CONDUIT BETWEEN THE ACCESSIBLE INTERCEPTION POINT AND MOTOR STARTER.
2. EXISTING ROOF-MOUNTED EXHAUST FAN TO BE REMOVED. DISCONNECT AND REMOVE CIRCUIT CONDUCTORS BETWEEN UNIT AND PANEL SOURCE. MAINTAIN EXISTING CONDUIT PENETRATING THE ROOF FROM THE FINAL FLEXIBLE CONNECTION TO THE UNIT BACK TO AN ACCESSIBLE INTERCEPTION LOCATION WITHIN THE FACILITY INTERIOR. REMOVE FINAL FLEXIBLE CONNECTION TO THE UNIT. REMOVE REMAINING CONDUIT INTERCEPTION POINT AND PANEL SOURCE.

1/8" = 1'-0"   0 4' 8' 16' 24'

GRAPHIC SCALE

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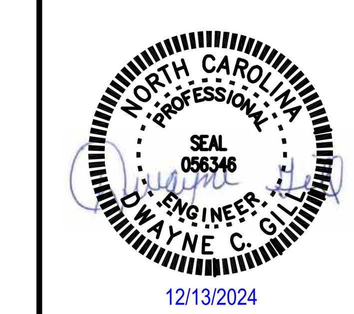

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DEMOLITION PLANS

MACON WATER AUTHORITY ROCKY CREEK WASTEWATER TREATMENT PLANT

SLUDGE DEWATERING BUILDING
MACON, GA 31201

Drawn By	DG
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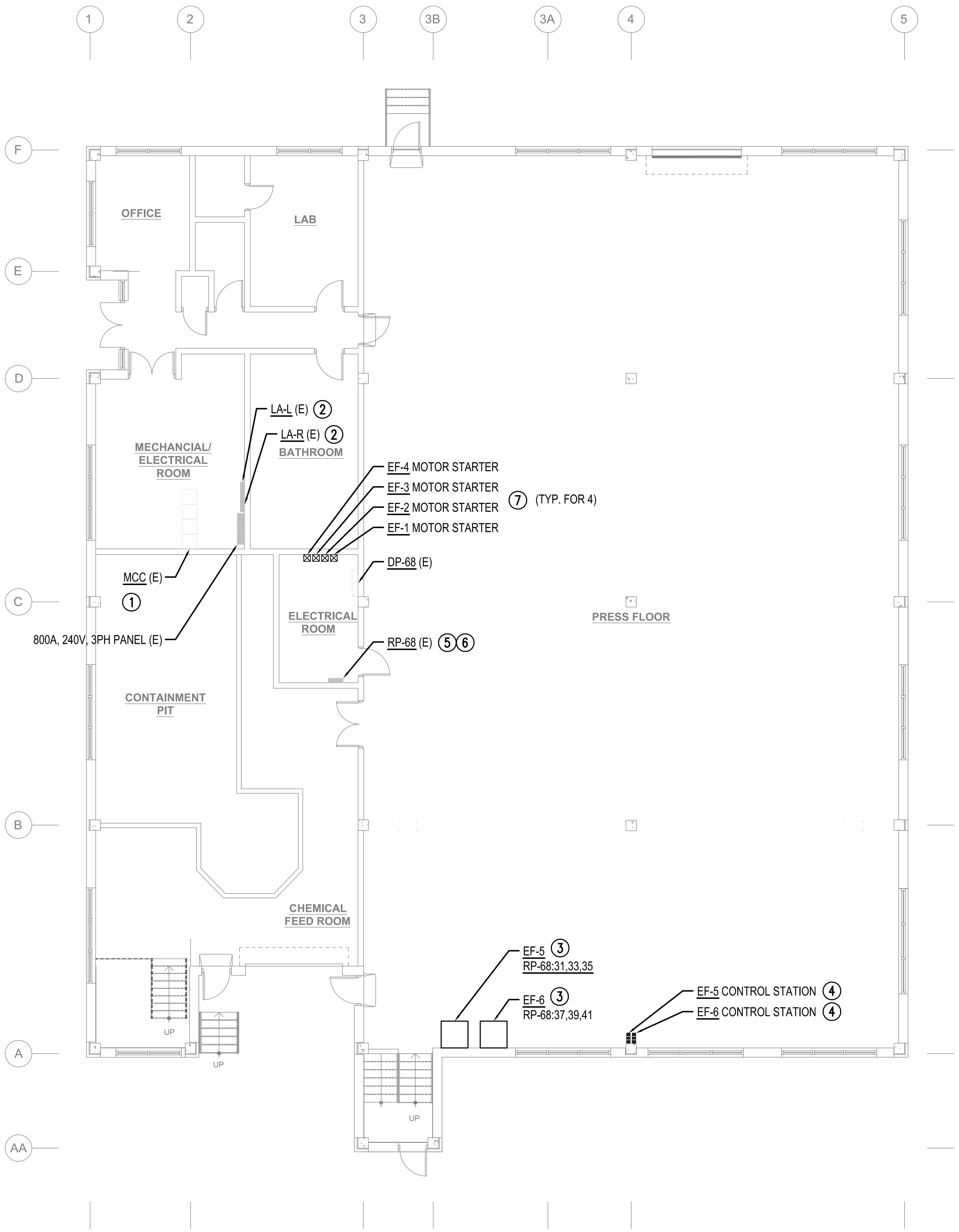
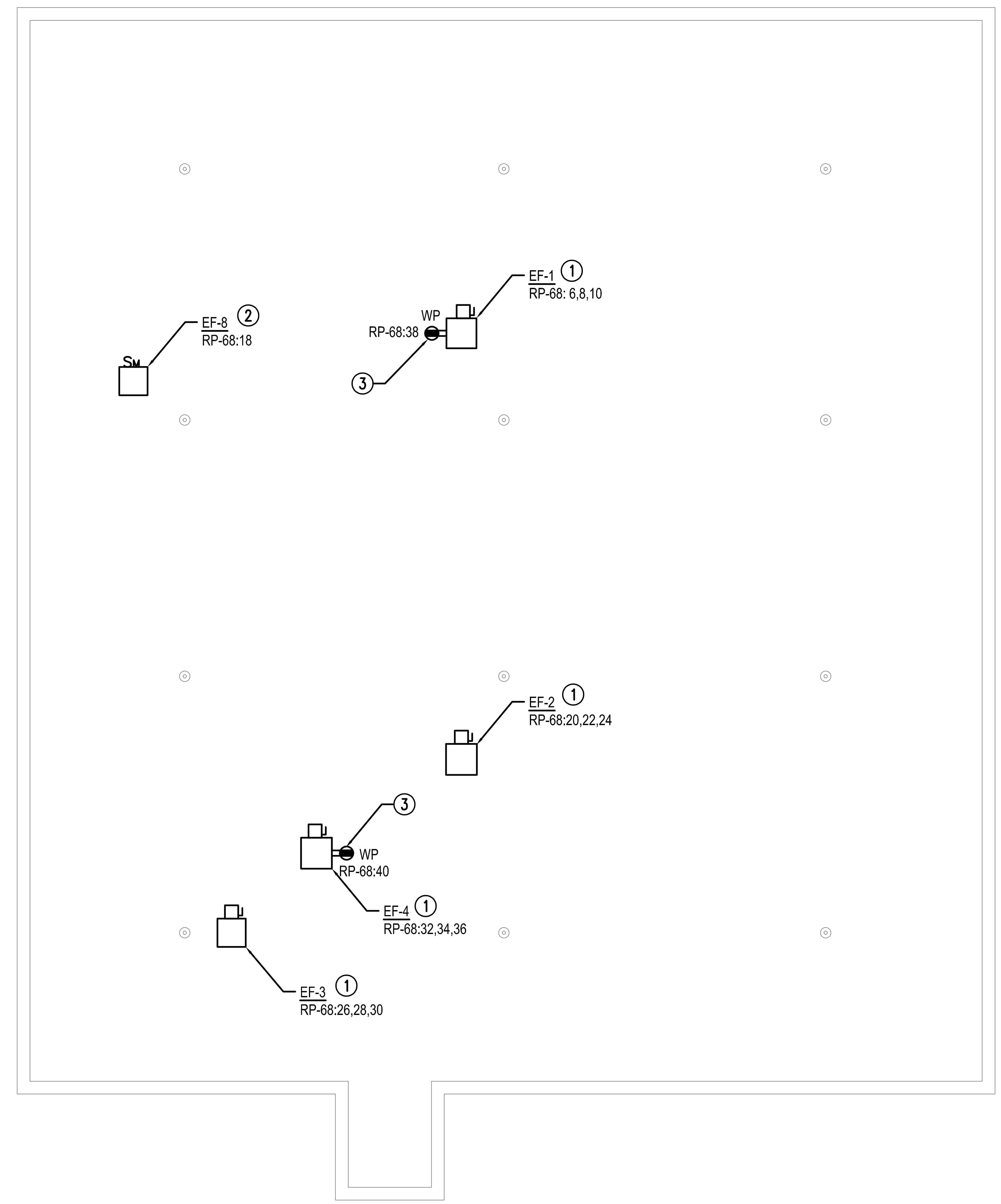


ELECTRICAL FLOOR PLAN – NEW WORK

SCALE: 1/8"=1'-0"



ELECTRICAL ROOF PLAN – NEW WORK

SCALE: 1/8"=1'-0"

NEW WORK NOTES

FLOOR PLAN

1. REPLACE EQUIPMENT TAGS TO IDENTIFY SPARE MCC CUBICLES FOR EQUIPMENT AND CIRCUITS REMOVED DURING DEMOLITION.
2. UPDATE PANEL DIRECTORY INDICATING SPARE BRANCH CIRCUITS FOR EQUIPMENT AND CIRCUITS REMOVED DURING DEMOLITION.
3. WALL-MOUNTED EXHAUST FAN TO BE INSTALLED BY DIVISION 23 CONTRACTOR AND RENAMED AS FOLLOWS:
   - ORIGINAL EQUIPMENT TAG: EF-1M, NEW EQUIPMENT TAG: EF-5
   - ORIGINAL EQUIPMENT TAG: EF-2M, NEW EQUIPMENT TAG: EF-6

   PROVIDE CIRCUIT CONDUCTORS AND CONDUIT CONSISTING OF (3)#12, (1)#12G IN 3/4"C. CONNECT TO PANEL AND CIRCUIT INDICATED.
4. PROVIDE 3-BUTTON PUSHBUTTON CONTROL STATION FOR WALL-MOUNTED EXHAUST FAN. CONNECT EXISTING CONTROL CIRCUITING MAINTAINED FROM DEMOLITION.
5. PROVIDE ONE (1) 15A, 3-POLE CIRCUIT BREAKER FOR EACH OF THE FOLLOWING EXHAUST FAN EQUIPMENT LOADS (TOTAL OF SIX (6) DEVICES):
   - EF-1, EF-2, EF-3, EF-4, EF-5, EF-6

   PROVIDE ONE (1) 15A, 1-POLE CIRCUIT BREAKER FOR THE FOLLOWING EXHAUST FAN EQUIPMENT LOAD (TOTAL OF ONE (1) DEVICE):
   - EF-8

   REFER TO PANEL SCHEDULE RP-68 ON SHEET E-4 FOR ADDITIONAL INFORMATION.
6. REPLACE THREE (3) EXISTING SPARE 20A, 1-POLE CIRCUIT BREAKER FOR THE FOLLOWING EXHAUST FAN EQUIPMENT LOAD:
   - EF-1

   REFER TO KEYED NOTE 5 ON THIS SHEET FOR CIRCUIT BREAKER SIZE. REFER TO PANEL SCHEDULE RP-68 ON SHEET E-4 FOR ADDITIONAL CIRCUITING ARRANGEMENT DETAILS.
7. PROVIDE NEMA 0 MOTOR STARTER IN NEMA 4X ENCLOSURE FOR EXHAUST FAN. PROVIDE BRANCH CIRCUIT AND CONDUCTORS CONSISTING OF (3)#12, (1)#12G IN 1/2"C. CONNECT TO EXISTING PANEL RP-68.

ROOF PLAN

1. ROOF-MOUNTED EXHAUST FAN TO BE INSTALLED BY DIVISION 23 CONTRACTOR. PROVIDE CIRCUIT CONDUCTORS CONSISTING OF (3)#12, (1)#12G. INSTALL CIRCUIT CONDUCTORS IN EXISTING CONDUIT AND EXTEND AS NECESSARY BETWEEN UNIT AND ITS CORRESPONDING STARTER. PROVIDE 30A, 3-POLE, NON-FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. PROVIDE FINAL FLEXIBLE CONNECTION BETWEEN DISCONNECT AND UNIT. CONNECT TO PANEL AND CIRCUIT INDICATED.
2. ROOF-MOUNTED EXHAUST FAN TO BE INSTALLED BY DIVISION 23 CONTRACTOR. PROVIDE CIRCUIT CONDUCTORS CONSISTING OF (2)#12, (1)#12G. INSTALL IN EXISTING CONDUIT AND EXTEND AS NECESSARY BETWEEN UNIT AND ITS CORRESPONDING STARTER. PROVIDE 15A, 1-POLE MOTOR-RATED SWITCH IN WEATHERPROOF OUTLET BOX. PROVIDE FINAL FLEXIBLE CONNECTION BETWEEN SWITCH AND UNIT. CONNECT TO PANEL AND CIRCUIT INDICATED.
3. PROVIDE GFCI RECEPTACLE. PROVIDE BRANCH CIRCUIT CONSISTING OF (2)#12, (1)#12G IN 3/4"C. CONNECT TO PANEL AND CIRCUIT INDICATED.

1/8" = 1'-0" 0 4' 8' 16' 24'

GRAPHIC SCALE

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DATE	REVISIONS

NORTH CAROLINA PROFESSIONAL SEAL 056346 ENGINEER DWAYNE C. GILL

12/13/2024

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NEW WORK PLANS

MACON WATER AUTHORITY ROCKY CREEK WASTEWATER TREATMENT PLANT

SLUDGE DEWATERING BUILDING
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Drawn By	DG
Checked By	JD
Date	12/13/2024
Job No.	2024-35
Drawing Number	E-3

EXISTING PANEL DP-68 SCHEDULE

600 AMP MCB 480Y/277 VOLTS 3PH, 4W, 60 HZ MIN. 65 KAIC SURFACE MOUNTED NEMA 4X

CKT. NO.	LOAD DESCRIPTION	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	LOAD DESCRIPTION	CKT. NO.
1	CP-6830 (EXISTING)	1	100	36.1	10.0	A	5.0	18.1	60	4	JC-6871, JC-6872, JC-6863 (EXISTING)	2
				36.1	10.0	B	5.0	18.1				
				36.1	10.0	C	5.0	18.1				
3	CP-6840 (EXISTING)	1	100	36.1	10.0	A	2.0	7.2	30	10	CP-6810 (EXISTING)	4
				36.1	10.0	B	2.0	7.2				
				36.1	10.0	C	2.0	7.2				
5	CP-6850 (EXISTING)	1	100	36.1	10.0	A	2.0	7.2	30	10	CP-6820 (EXISTING)	6
				36.1	10.0	B	2.0	7.2				
				36.1	10.0	C	2.0	7.2				
7	CP-6860 (EXISTING)	1	100	36.1	10.0	A	5.0	18.1	50	6	T-RP-68	8
				36.1	10.0	B	5.4	19.5				
				36.1	10.0	C	5.7	20.6				
9	SPACE					A B C					SPACE	10
11	SPACE					A B C					SPACE	12
13	SPACE					A B C					SPACE	14
15	SPACE					A B C					SPACE	16
17	SPACE					A B C					SPACE	18
TOTAL AMPS (CONN. LOAD)			A:	194.9		B:	196.4		C:	197.5		
TOTAL AMPS (FEEDTHRU)			A:			B:			C:			
TOTAL AMPS (CONN. LOAD + FEED-THRU)			A:	194.9		B:	196.4		C:	197.5		

PANELBOARD OPTIONS:

PANELBOARD NOTES:

1. LOCATION: ELECTRICAL ROOM

EXISTING PANEL RP-68 SCHEDULE

100 AMP MCB 208Y/120 VOLTS 3PH, 4W, 60 HZ MIN. 10 KAIC SURFACE MOUNTED NEMA 4X

CKT. NO.	LOAD DESCRIPTION	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	LOAD DESCRIPTION	CKT. NO.
1	PY-P-6833 (EXISTING)	12	20	5.8	0.7	A	0.5	4.2	20	12	CP-6880 (EXISTING)	2
3	PY-P-6843 (EXISTING)	12	20	5.8	0.7	B			20	12	LIT-68 / LYLL-6880 (EXISTING)	4
5	PY-P-6853 (EXISTING)	12	20	5.8	0.7	C	0.1	1.2	15	12	EF-1 (0.75 HP)	6
7	PY-P-6863 (EXISTING)	12	20	5.8	0.7	A	0.1	1.2		12		8
9	SPARE		20			B	0.1	1.2		12		10
11	GUH-6801 (EXISTING)	12	15	5.8	0.7	C	0.5	4.2	20	12	AIR-CMP-6801 (EXISTING)	12
13	GUH-6802 (EXISTING)	12	15	5.8	0.7	A	0.5	4.2	20	12	AIR-CMP-6802 (EXISTING)	14
15	GUH-6803 (EXISTING)	12	15	5.8	0.7	B	2.4	20.0	30	10	EWH-1 (EXISTING)	16
17	GUH-6804 (EXISTING)	12	15	5.8	0.7	C	1.2	9.8	15	12	EF-8 (0.5 HP)	18
19	EF-6801 (EXISTING)	12	20	1.7	0.2	A	0.1	1.2	15	12	EF-2 (0.75 HP)	20
21	EF-6802 (EXISTING)	12	20	2.5	0.3	B	0.1	1.2				22
23	CU-6801 (EXISTING)	12	20	5.8	0.6	C	0.1	1.2				24
25				5.8	0.6	A	0.1	1.2	15	12	EF-3 (0.75 HP)	26
27	RCPT (EXISTING)	12	20	1.5	0.2	B	0.1	1.2				28
29	CONVEYOR HEAT BLANKET (EXISTING)	12	20	1.7	0.2	C	0.1	1.2				30
31	EF-5 (1.5 HP)	12	15	2.2	0.3	A	0.2	1.5	15	12	EF-4 (1 HP)	32
33				2.2	0.3	B	0.2	1.5				34
35				2.2	0.3	C	0.2	1.5				36
37	EF-6 (1.5 HP)	12	15	2.2	0.3	A	0.2	1.5	20	12	GFCI RCPT (AT EF-1)	38
39				2.2	0.3	B	0.2	1.5	20	12	GFCI RCPT (AT EF-4)	40
41				2.2	0.3	C					SPACE	42
TOTAL AMPS (CONN. LOAD)			A:	43.3		B:	46.5		C:	47.5		
TOTAL AMPS (FEEDTHRU)			A:			B:			C:			
TOTAL AMPS (CONN. LOAD + FEED-THRU)			A:	43.3		B:	46.5		C:	47.5		

PANELBOARD OPTIONS:

PANELBOARD NOTES:

1. LOCATION: ELECTRICAL ROOM

ISSUED FOR CONSTRUCTION

DATE	REVISIONS

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 056346 WAYNE C. GILL

12/13/2024

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SCHEDULES

MACON WATER AUTHORITY ROCKY CREEK WASTEWATER TREATMENT PLANT

SLUDGE DEWATERING BUILDING
MACON, GA 31201

Drawn By	DG
Checked By	JD
Date	12/13/2024
Job No.	2024-35
Drawing Number	E-4