

ROCKY CREEK WATER RECLAMATION FACILITY MAINTENANCE BUILDING REPLACE ROOF

FOR THE MACON WATER AUTHORITY ROCKY CREEK WATER RECLAMATION FACILITY MACON, GEORGIA 31206



DATE	REVISIONS

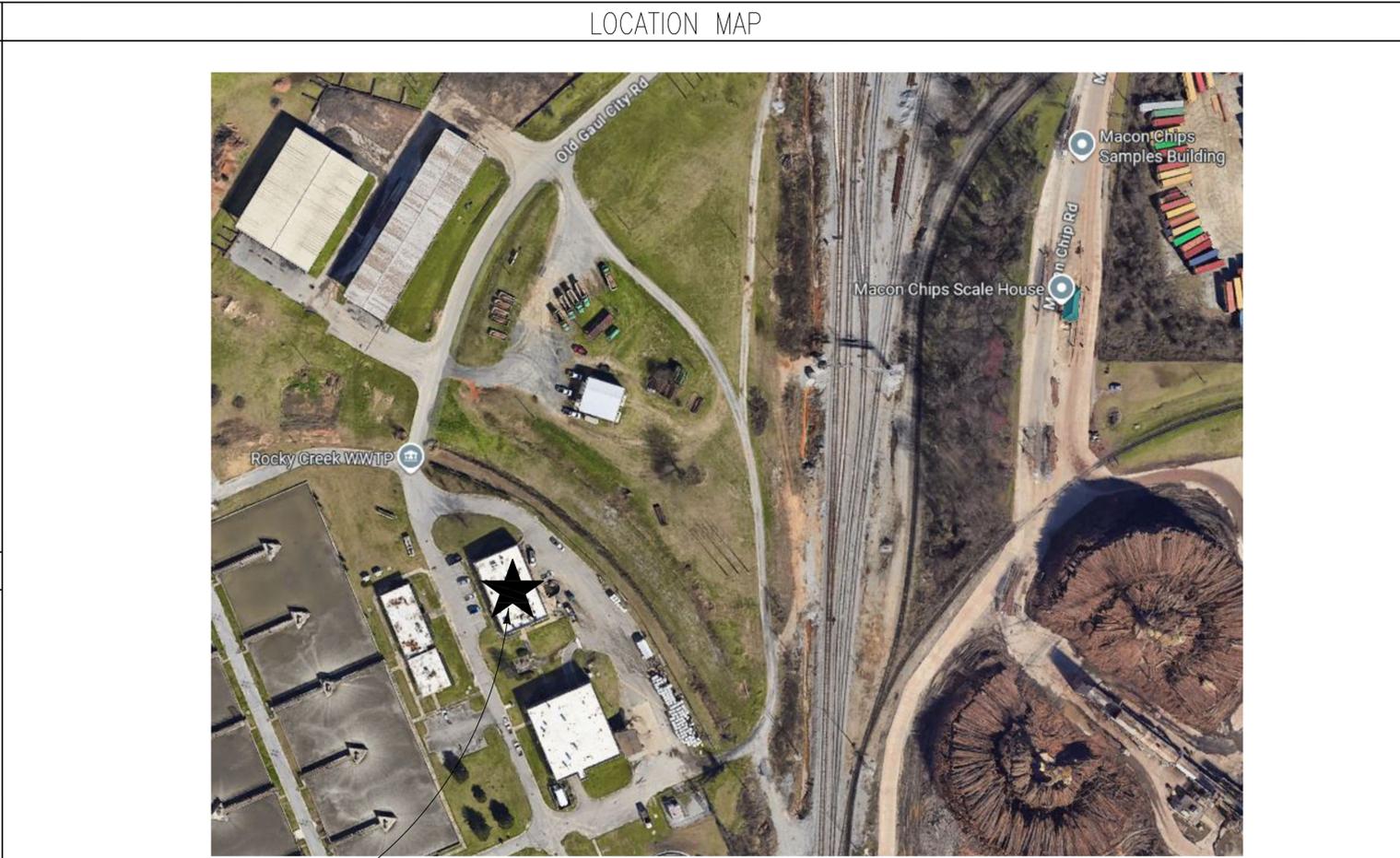
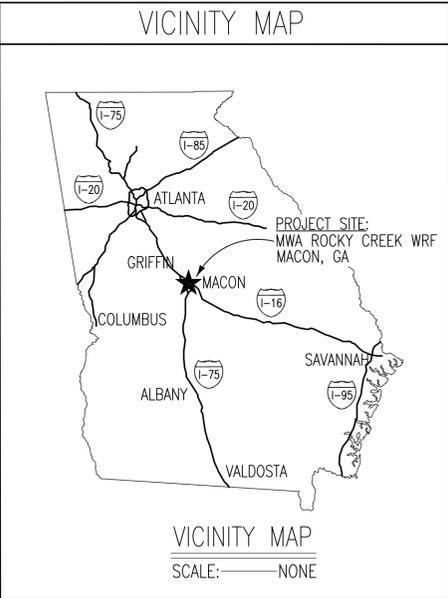


THIS DOCUMENT, THE IDEAS AND DESIGNS INCORPORATED HEREIN, IS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF THE MACON WATER AUTHORITY, MACON, GEORGIA AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THEIR WRITTEN AUTHORIZATION.

MEC&A
MICHAEL E. CLARK & ASSOC., INC.
Building Enclosure Consultants
3643 Vineville Avenue
MACON, GEORGIA 31204
(478)471-6661 PHONE (478)471-6690 FAX

INDEX OF DRAWINGS	
SHEET NO.	DESCRIPTION
X-1	COVER SHEET
A-1	DEMOLITION ROOF PLAN
A-2	WIND ZONE ROOF PLAN
A-3	NEW WORK ROOF PLAN
A-4	ROOF DETAILS

DETAIL DRAWING SYMBOL



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, 2 NEW 2.2" THICK LAYERS OF POLYISO. RIGID INSULATION, AND NEW ADHERED ¼" PER FOOT TAPERED INSULATION SYSTEM WITH A 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. EXISTING MECHANICAL EQUIPMENT SHALL REMAIN AND CURBS SHALL BE RAISED AS NECESSARY TO MEET THE MINIMUM FLASHING HEIGHT REQUIREMENT OF 8" ABOVE THE PLANE OF THE NEW ROOF SYSTEM.

OWNER'S REPRESENTATIVE: MR. MICHEL WANNA, INTERIM EXECUTIVE DIRECTOR & PRESIDENT

DESIGNED BY
MICHAEL E. CLARK & ASSOCIATES, INC.
3643 VINEVILLE AVENUE
MACON, GA 31204
PHONE: 478-471-6661

PROJECT SITE:
MAINTENANCE BUILDING
ROCKY CREEK WRF, MACON, GA

Drawn By: C.BELL
Checked By: CLARK
Date: 03/10/2026
Job No.: 2025-114
Drawing Number: X-1

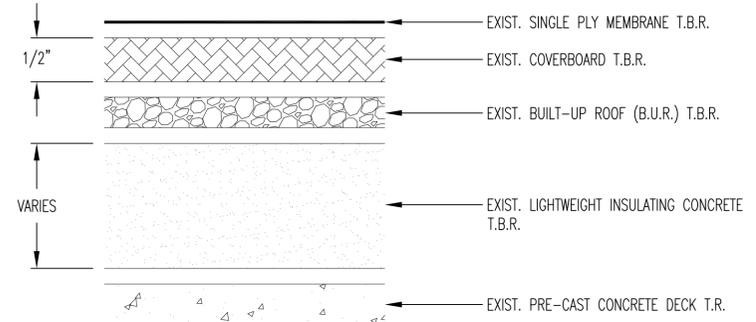
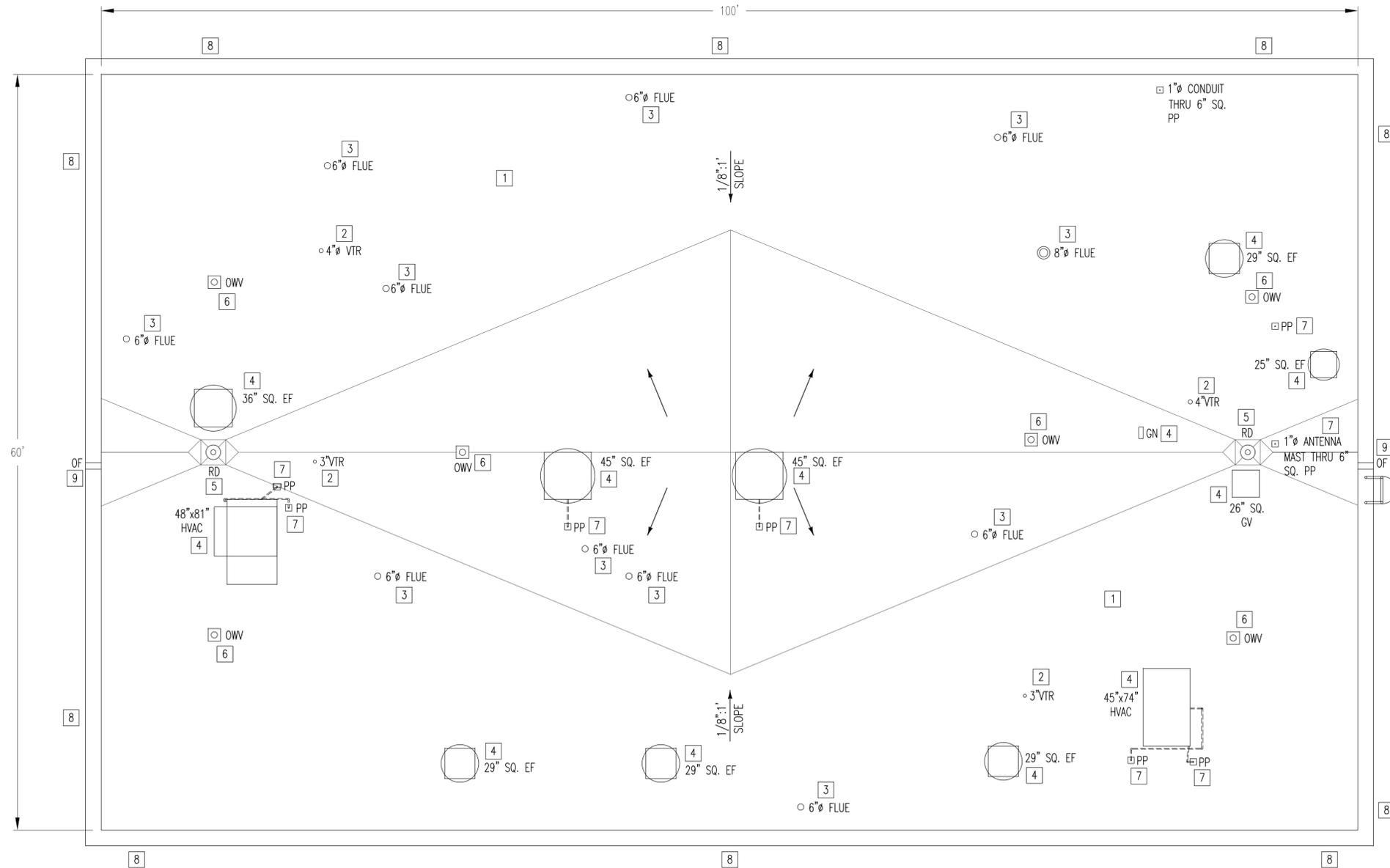
SHEET 1 OF 5

LEGEND

- MAGNITUDE AND DIRECTION OF EXISTING ROOF SLOPE, ACHIEVED USING TAPERED INSULATION
- EXISTING PLUMBING VENT THROUGH ROOF (VTR) W/ SIZE
- EXISTING FLUE STACK W/ SIZE
- EXISTING ONE WAY VENT (OWV)
- EXISTING GRAVITY VENT (GV) W/ SIZE
- EXISTING EXHAUST FAN (EF) W/ SIZE
- EXISTING PITCH PAN (PP)
- EXISTING ROOF DRAIN (RD)
- EXISTING OVERFLOW THROUGH-WALL SCUPPER (OF)
- EXISTING WALL-MOUNTED ACCESS LADDER
- TO BE REMOVED
- TO REMAIN

DEMOLITION & NEW WORK NOTES (THIS SHEET ONLY)

- 1 EXISTING SINGLE-PLY MEMBRANE, COVERBOARD, COATED GRAVEL SURFACED BUILT-UP ROOF (BUR), AND LIGHTWEIGHT INSULATING CONCRETE TO BE REMOVED DOWN TO THE EXISTING PRE-CAST CONCRETE DECK.
- 2 EXISTING PLUMBING VENT THROUGH ROOF (VTR) LOCATION. EXISTING FLASHING TO BE REMOVED. VENT PIPE TO REMAIN. EXTEND PIPE AS REQUIRED SO THAT IT MEETS MIN. 8" FLASHING HEIGHT ABOVE PLANE OF NEW ROOF SYSTEM BEING INSTALLED DURING NEW WORK PHASE.
- 3 EXISTING FLUE STACK LOCATION. FLASHING TO BE REMOVED. EXISTING FLUE PIPE TO REMAIN. EXTEND PIPE AS REQUIRED SO THAT IT MEETS MIN. 8" FLASHING HEIGHT ABOVE PLANE OF NEW ROOF SYSTEM BEING INSTALLED DURING NEW WORK PHASE.
- 4 EXISTING CURBED ROOFTOP MECHANICAL EQUIPMENT (I.E. EXHAUST FAN (EF), GRAVITY VENT (GV), GOOSENECK VENT (GN), HVAC) TO REMAIN. CURB TO REMAIN AND FLASHING TO BE REMOVED. IF NECESSARY, TEMPORARILY REMOVE EQUIPMENT FROM CURB AS REQUIRED AND RAISE EXISTING CURB USING WOOD NAILERS SO THAT THE CURB WILL MEET MIN. 8" FLASHING HEIGHT ABOVE PLANE OF NEW ROOF SYSTEM, AND THEN RE-INSTALL EQUIPMENT ON TOP OF RAISED CURB PRIOR TO THE NEW WORK PHASE.
- 5 EXISTING ROOF DRAIN (RD) LOCATION. EXISTING ROOF DRAIN STRAINER, CLAMPING RING, AND BOLTS TO BE REMOVED. EXISTING DRAIN BOWL TO REMAIN.
- 6 EXISTING ONE WAY VENT (OWV) TO BE REMOVED.
- 7 EXISTING PIPE PENETRATION THROUGH PITCH PAN (PP) (I.E. ANTENNA MAST, ELECTRICAL CONDUIT, GAS LINE, ETC.) TO BE TEMPORARILY SUPPORTED DURING THE DEMOLITION PHASE. PITCH PAN TO BE REMOVED.
- 8 EXISTING METAL FLASHING AND COUNTERFLASHING TO BE REMOVED FROM PARAPET WALL LOCATION. SURFACE OF EXISTING STONE COPING TO BE CLEANED AND PREPARED TO RECEIVE NEW WOOD BLOCKING AND SHEET METAL COPING CAP DURING THE NEW WORK PHASE.
- 9 EXISTING THROUGH-WALL OVERFLOW SCUPPER (OF) TO HAVE FLASHING AND SCUPPER SLEEVE REMOVED.
- 10 EXISTING WALL-MOUNTED ACCESS LADDER TO BE MODIFIED IN PREPARATION FOR NEW WOOD NAILER AND COPING THAT ARE BEING INSTALLED IN THE NEW WORK PHASE.



EXISTING ROOF SYSTEM - CORE DATA
SCALE: NONE

GENERAL NOTE: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING FIELD CONDITIONS AND MEASUREMENTS.

TEST RESULTS FOR ASBESTOS ANALYSIS OF BULK MATERIALS				
SAMPLE	DESCRIPTION	NON-ASBESTOS		ASBESTOS
		% FIBROUS	% NON-FIBROUS	% TYPE
1	FLASHING	40% GLASS	20% CA CARBONATE 40% NON-FIBROUS	NONE DETECTED
2	B.U.R. MEMBRANE	40% GLASS	20% CA CARBONATE 40% NON-FIBROUS	NONE DETECTED

DATE	REVISIONS

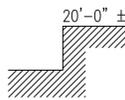


THIS DOCUMENT, THE IDEAS AND DESIGNS INCORPORATED HEREIN, IS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF THE MACON WATER AUTHORITY, MACON, GEORGIA, AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THEIR WRITTEN AUTHORIZATION.

MEC&A
MICHAEL E. CLARK & ASSOC., INC.
Building Enclosure Consultants
3643 Vineville Avenue
MACON, GEORGIA 31204
(478)471-6661 PHONE (478)471-6690 FAX

DEMOLITION ROOF PLAN
MACON WATER AUTHORITY ROCKY CREEK WRF
MAINTENANCE BUILDING REPLACE ROOF
MWA ROCKY CREEK WRF MAINTENANCE BUILDING
MACON, GA

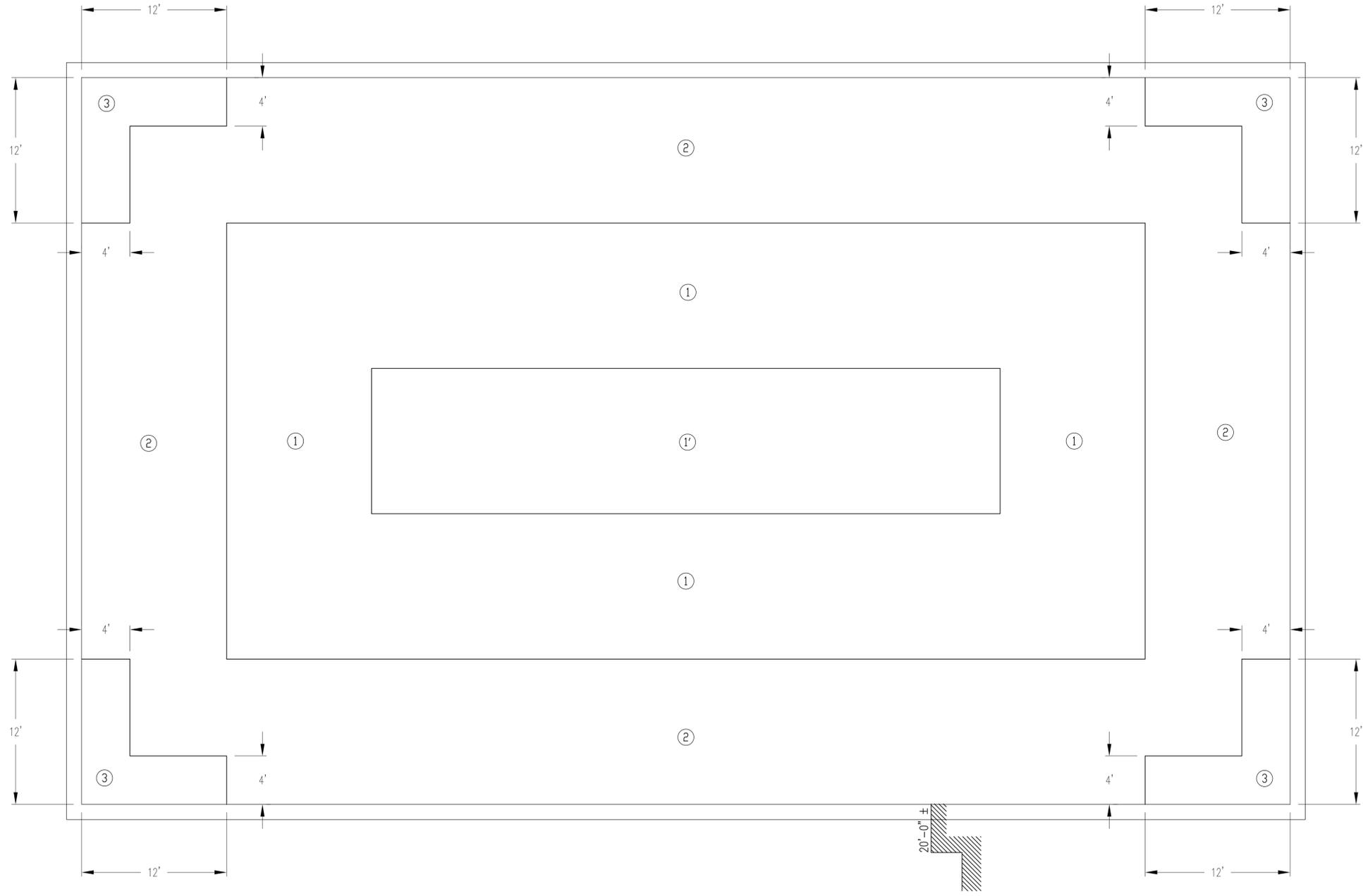
LEGEND

- ① ① FIELD OF ROOF ZONE
 - ② PERIMETER ROOF ZONE
 - ③ CORNER ROOF ZONE
- 20'-0" ±

 APPROXIMATE DISTANCE FROM GROUND TO ROOF EDGE

ROOF AREA DESIGN
 WIND UP-LIFT PRESSURES
 ZONE 1=-24.29 PSF
 ZONE 2=-55.77 PSF
 ZONE 3=-76.01 PSF

WIND UPLIFT PARAMETERS:
 ASCE VERSION: ASCE 7-22
 BASIC WIND SPEED: 107 MPH
 BUILDING CONFIGURATION: ENCLOSED
 EXPOSURE CATEGORY: C
 RISK CATEGORY: II

NOTE: THE VALUES SHOWN ON THIS SHEET ARE UNFACTORED MAXIMUM UPLIFT PRESSURES, BY ZONE, AND DO NOT INCLUDE AN ASD LOAD REDUCTION FACTOR OF 0.6 NOR A FACTOR OF SAFETY (F.S.).



WIND ZONE ROOF PLAN – ROCKY CREEK MAINTENANCE BUILDING
 SCALE: 3/8"=1'-0"



DATE	REVISIONS



THIS DOCUMENT, THE IDEAS AND DESIGNS INCORPORATED HEREIN, IS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF THE MACON WATER AUTHORITY, MACON, GEORGIA, AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THEIR WRITTEN AUTHORIZATION.

MEC&A
 MICHAEL E. CLARK & ASSOC., INC.
 Building Enclosure Consultants
 3643 Vineville Avenue
 MACON, GEORGIA 31204
 (478)471-6661 PHONE (478)471-6690 FAX

WIND ZONE ROOF PLAN
 MACON WATER AUTHORITY ROCKY CREEK WRF
 MAINTENANCE BUILDING REPLACE ROOF
 MWA ROCKY CREEK WRF MAINTENANCE BUILDING
 MACON, GA

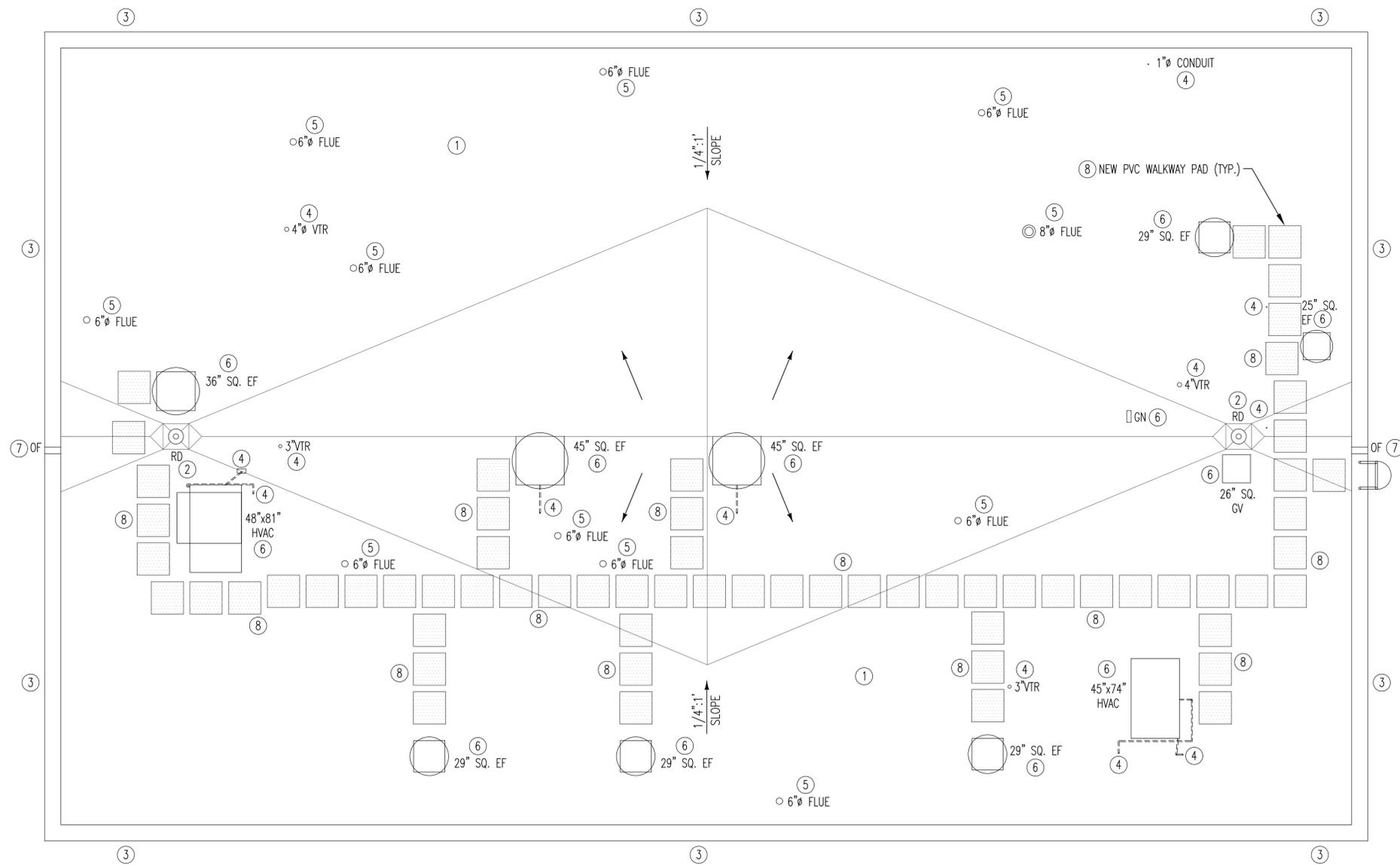
Drawn By	C. BELL
Checked By	MEC
Date	03/10/2026
Job No.	2026-114
Drawing Number	

LEGEND

-  1/4":1' SLOPE → MAGNITUDE AND DIRECTION OF NEW FINISHED ROOF SLOPE, ACHIEVED USING TAPERED INSULATION
-  ∅ 4" VTR RE-FLASHED PLUMBING VENT THROUGH ROOF (VTR) W/ SIZE
-  ∅ 6" FLUE RE-FLASHED FLUE STACK W/ SIZE
-  GV RE-FLASHED GRAVITY VENT (GV) W/ SIZE
-  EF RE-FLASHED EXHAUST FAN (EF) W/ SIZE
-  NEW ROOF DRAIN (RD)
-  OF RE-FLASHED OVERFLOW THROUGH-WALL SCUPPER (OF)
-  EXISTING WALL-MOUNTED ACCESS LADDER

NEW WORK NOTES (THIS SHEET ONLY)

- ① NEW PVC MEMBRANE ROOF SYSTEM: 60 MIL PVC MEMBRANE FULLY-ADHERED; 1/2" THICK LAYER OF COVERBOARD; 1/4" PER FOOT TAPERED POLYISOCYANURATE INSULATION ADHERED WITH 2-PART LOW RISE FOAM ADHESIVE; (2) 2.2" THICK LAYERS OF POLYISOCYANURATE RIGID 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 EXISTING ROOF DRAIN BOWL (TYP.). SEE DETAIL 1 ON SHEET A-4 (TYP.).
- ③ NEW 24 GA SHEET METAL COPING CAP TO BE INSTALLED AT EXISTING PARAPET WALL OVER NEW WOOD BLOCKING (SLOPED AT 1" PER FT. TOWARDS ROOF) ON TOP OF THE EXISTING, CLEANED STONE COPING. SEE DETAIL 2 ON SHEET A-4 (TYP.).
- ④ RE-FLASHED PIPE PENETRATION (I.E. PLUMBING VENT THROUGH ROOF (VTR), ANTENNA MAST, CONDUIT PIPING, GAS PIPING, ETC.) LOCATION (TYP.). SEE DETAIL 3 ON SHEET A-4.
- ⑤ RE-FLASHED FLUE STACK LOCATION (TYP.). SEE DETAIL 5 ON SHEET A-4.
- ⑥ EXISTING CURBED ROOFTOP EQUIPMENT (I.E. EXHAUST FAN (EF), HVAC UNIT (HVAC), GOOSENECK VENT (GN), GRAVITY VENT (GV), ETC.) TO RECEIVE NEW SLIP FLASHING. EXISTING CURB TO BE RE-FLASHED. SEE DETAIL 4 ON SHEET A-4 (TYP.).
- ⑦ NEW 8"x4" SCUPPER SLEEVE TO BE INSTALLED (TYP.). SEE DETAIL 6 ON SHEET A-4 (TYP.).
- ⑧ NEW PVC WALKWAY PADS TO BE INSTALLED AT ROOF ACCESS POINTS, AROUND SERVICEABLE MECHANICAL EQUIPMENT, AND AREAS WITH HIGH FOOT-TRAFFIC.



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

 NEW WORK ROOF PLAN – ROCKY CREEK MAINTENANCE BUILDING
SCALE: 3/8"=1'-0"



DATE	REVISIONS



THIS DOCUMENT, THE IDEAS AND DESIGNS INCORPORATED HEREIN, IS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF THE MACON WATER AUTHORITY, MACON, GEORGIA, AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THEIR WRITTEN AUTHORIZATION.

MEC&A
MICHAEL E. CLARK & ASSOC., INC.
Building Enclosure Consultants
3643 Vineville Avenue
MACON, GEORGIA 31204
(478)471-6661 PHONE (478)471-6690 FAX

NEW WORK ROOF PLAN
MACON WATER AUTHORITY ROCKY CREEK WRF
MAINTENANCE BUILDING REPLACE ROOF
MWA ROCKY CREEK WRF MAINTENANCE BUILDING
MACON, GA

Drawn By	C. BELL
Checked By	MEC
Date	03/10/2026
Job No.	2026-114
Drawing Number	

