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REV	DESCRIPTION	DATE

MSCAA
CARGO 4
BUILDING REROOF
 CARGO ROAD

Sheet Title
ROOF PLAN

Project No.
20008-T40

Drawn by
RGI

Date
01-19-2023

A2.3

LEGEND



REMOVE ANY EXISTING LOOSE PEA GRAVEL WHEREVER FEASIBLE. LIGHT BLUE SHADED AREA INDICATE THE EXTENT OF THE NEW TPO ROOF SYSTEM CONSISTS OF 60 MIL TPO MEMBRANE FULL ADHERED TO NEW MECHANICAL ATTACHED POLYISOCYANURATE INSULATION. NEW ROOFING SYSTEM TO INCLUDE 2-YEAR CONTRACTOR WARRANTY AND 15-YEAR NDL (NO DOLLAR LIMIT) WARRANTY.

NEW PREFINISHED METAL COPING TRIM AT THE ENTIRE ROOF PERIMETER TO MATCH EXISTING PROFILE. REPLACE UNSUITABLE WOOD NAILER UNDER THE COPING FOR PROPER ATTACHMENT. TPO MEMBRANE TO WRAP ABOVE AND OVER THE WOOD BLOCKING BEFORE INSTALLATION OF NEW METAL TRIM

NEW TPO EXPANSION JOINTS WITH BACKER RODS.

- V ROOF RELIEF VENTS
- RD ROOF DRAIN
- F MECH EQUIPMENT FLUE
- H ROOF HATCH
- EH EXHAUST HOOD

SCOPE OF NEW ROOF WORK

- A. PROVIDE AND INSTALL NEW 2" MECHANICALLY ATTACHED NEW POLYISOCYANURATE RIGID INSULATION COVER BOARD, TAPERED OR SUMMED NEAR EXISTING ROOF DRAIN AS NEEDED FOR PROPER DRAINAGE.
- B. PROVIDE AND INSTALL A NEW 60 MIL, FULLY-ADHERED TPO ROOFING MEMBRANE. (GAF, CARLISLE, JOHNS MANSVILLE OR EQUAL) INSTALL PER MANUFACTURER'S SPECIFICATIONS.
- C. PROVIDE AND INSTALL NEW SAFETY GUARDRAIL AT ROOF HTACH FOR FALL PROTECTION.
- D. INSTALL NEW METAL COPING TRIM AT THE ENTIRE PERIMETER OF THE CARGO 4 BUILDING. FIELD VERIFY THE PROFILE FOR PROPER FABRICATION.
- E. INSTALL CRICKETS AND TAPERED INSULATION AT ROOF EQUIPMENT AS NEEDED FOR POSITIVE DRAINAGE. CORRECT LOW AREA TO ELIMINATE WATER PONDING.
- F. PROVIDE AND INSTALL PROTECTION WALKPAD AT THE ENTRY SIDE OF THE ROOF HATCH AND AROUND ALL FOUR SIDES ROOF TOP UNIT.
- G. PROVIDE MANUFACTURER APPROVED FLASHING AT ALL AFFECTED ROOF TOP EQUIPMENT PENETRATIONS AND RELIEF VENTS. ALL ROOF TOP MECHANICAL EQUIPMENT AND PENETRATIONS SHALL REMAIN AS IS. NOT ALL PENETRATIONS ARE SHOWN ON THE DRAWING. FIELD VERIFY QUANTITY NEEDED.
- H. CLEAN PREP AND REPAINT ROOF HATCH AS WELL AS ANY EXPOSED FERROUS METAL SUCH AS RAIL AND FERROUS GAS PIPING. SAND, PRIME, AND REPAINT ALL EXISTING EXTERIOR GAS LINES SERVING THE ROOF TOP UNITS. PROVIDE AND INSTALL MANUFACTURER APPROVED PIPE BOOTS OR FLASHING AT ALL ROOF PENETRATIONS. PROVIDE PIPE SUPPORT FOR ANY UNSUPPORTED CONDENSATE DRAIN PIPES.
- I. CONTRACTOR TO PROVIDE MANUFACTURER 15 YEAR NO DOLLAR LIMIT WARRANTY WITH 2 YEAR INSTALLER WORKMANSHIP WARRANTY. SUBMIT EXECUTED WARRANTY PAPER WORK BEFORE PROJECT CLOSE OUT. NO HAIL WARRANTY IS REQUIRED. WIND SPEED FOR WARRANTY TO BE 55MPH.



PHOTO 3 COORDINATE WITH AIRPORT FOR REPAIR, REPLACEMENT OR REMOVAL OF ANY LOOSE LAID OR DAMAGED CABLES AND CONDUITS.



PHOTO 5 PROJECT AREA SHALL ONLY LIMIT TO CARGO 4 BUILDING. COORDINATE WITH AIRPORT MAINTENANCE DEPT REGARDING EXISTING WIRES AND CABLES, AND CONDUITS REMAINED LOOSELY LAID ON THE ROOF. ROOF INSTALLATION SHALL INCLUDE EXPANSION JOINT TRANSITION BETWEEN THE NEW CARGO 4 BLDG AND EXISTING CARGO 3 BLDG ROOF.



PHOTO 5 THE CONTRACTOR SHALL REMOVE ANY LOOSE PEA GRAVEL REMAINED ON THE ROOF BEFORE INSTALLATION OF NEW TPO ROOFING SYSTEM. GC TO PROVIDE AND INSTALL NEW SAFETY RAIL AND GATE ON THE EXISTING ROOF HATCH FOR FALL PROTECTION.

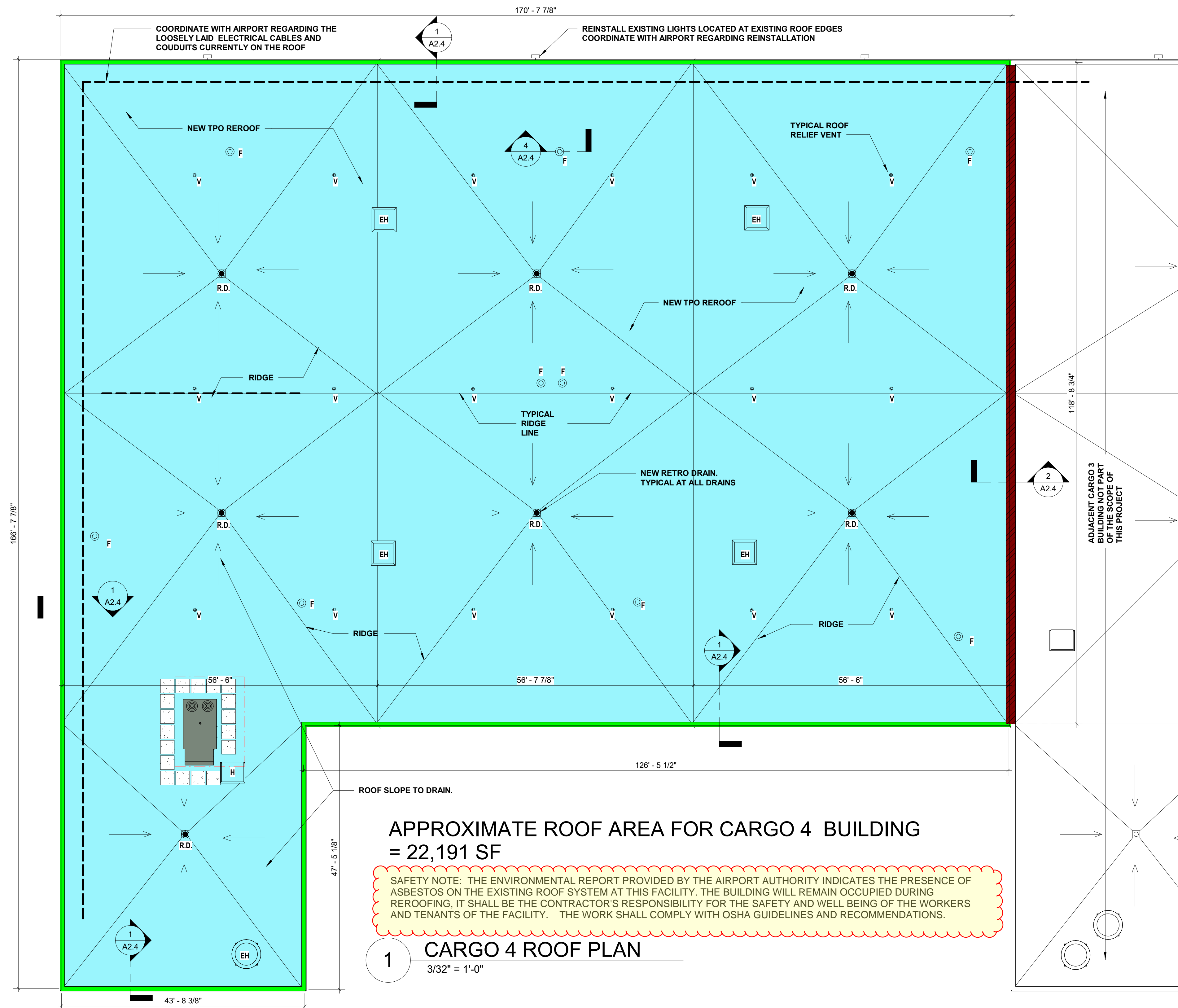
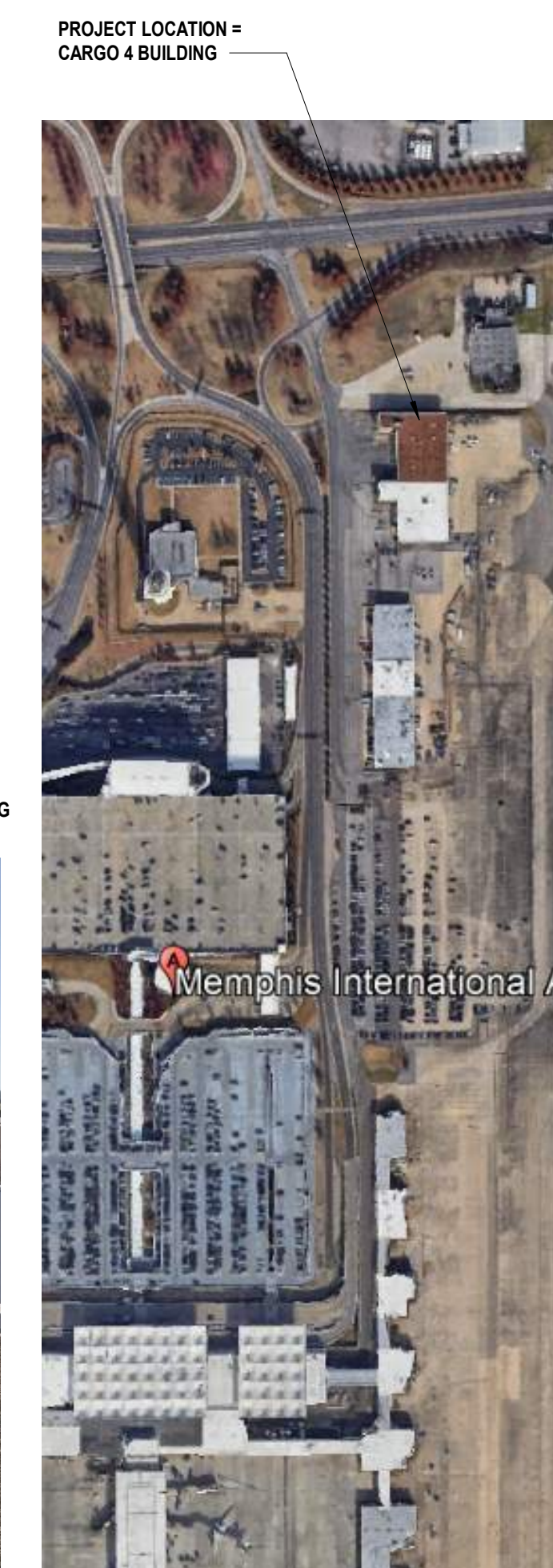


PHOTO 1 SUMP DRAIN AREA FOR PROPER DRAINAGE. INSTALL FLASHING AND RTU METAL AROUND EXISTING ROOF EQUIPMENT. MEMBRANE TO BE FULL ADHERED TO NEWLY MECHANICAL ATTACHED HIGH DENSITY POLYISOCYANURATE RIGID COVER BOARD INSULATION. CORRECT ANY AREA AS NEEDED TO SLOPE TOWARD EXISTING ROOF DRAINS. REF ROOF PLAN.



PHOTO 2 THE EXISTING ROOF IS ABOUT 4 1/2" THICK TO THE METAL DECK. THE EXISTING SYSTEM CONSISTS OF AVERAGE OF 1" WHITE EXPANDED POLYSTYRENE FOAM BOARD UNDER APPROXIMATELY 4"-7" THICK OF LIGHT WEIGHT INSULATED CONCRETE UNDER THE ASPHALT BUILD-UP ROOF AND PEA GRAVEL. THICKNESS OF EXISTING LIGHT WEIGHT INSULATED CONCRETE SUBSTRATE VARIES IN ORDER TO CREATE THE IN-PLACE SLOPE FOR DRAINAGE. REMOVE PEA GRAVEL WHEREVER FEASIBLE FOR SOUND SECUREMENT OF COVER BOARD.



PHOTO 3 EXISTING ROOF RELIEF VENTS SHALL BE REMAIN. REPLACE ONLY AS NEEDED