LAKE LAND COLLEGE - FIELD HOUSE

5009 LAKE LAND BOULEVARD MATTOON, IL 61938



LOCATION MAP 5001 Lake Land Blvd, Mattoon, IL 61938

KEY PLAN



DRAWING INDEX

SHEET 1 - COVER SHEET

SHEET 2 - GENERAL NOTES **SHEET 3 - GENERAL NOTES**

SHEET 4 - ROOF PLANS

SHEET 5 - DETAILS SHEET 6 - DETAILS



COA: 18400768 LICENSE #: 001020039

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FIELD HOUSE

TYPICAL ROOF CROSS SECTION -INSTALL MODIFIED MINERAL SBS CAP SHEET SET IN COLD APPLIED RUBBERIZED ADHESIVE AT 2.0-2.5 MODIFIED SBS BASE SHEET SET IN-GAL PER SOLIARE AND HEAT WELD COLD APPLIED RUBBERIZED ADHESIVE AT 2.0-2.5 GAL PER SQUARE ALL FIELD AND FLASHING SEAMS DENSDECK PRIME SET IN APPROVED INSULATION ADHESIVE PER WIND UP LIFT REQUIREMENTS INSTALL %" TAPERED CRICKETS AND SADDLES AS INDICATED ON TAPERED INSULATION PRINTS METAL DECKING MECHANICALLY FASTEN 2 LAYERS OF 2.5' 4'x8' POLYISOCYANURATE INSULATION BOARDS USING APPROVED WIND-UP LIFT REQUIREMENTS

GENERAL NOTES

GENERAL NOTES

- IT IS THE ROOFING CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH ALL DETAILS INVOLVED IN THE ROOFING CONTRACT.
- ALL DRAWINGS ARE GRAPHIC REPRESENTATION OF APPROXIMATE LOCATION OF EXISTING AND NEW MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK
- THE ROOFING CONTRACTOR TO PROTECT ALL ADJACENT SURFACES NOT SCHEDULED FOR WORK AND TO REPAIR ANY DAMAGED AREAS AS A RESULT OF CONTRACTOR WORK AT NO ADDITIONAL COST TO THE OWNER.
- THE ROOFING CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN WATER TIGHTNESS AND PROVIDE PROTECTION AT ANY/ALL OPENINGS IN THE ROOF LEFT AT THE END OF EACH CONSTRUCTION DAY.
- ALL WOOD BLOCKING SHALL BE FIRE RATED.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, CONDITIONS, AND QUANTITIES.
- STORE AND HANDLE ROOFING SHEETS IN A DRY, WELL-VENTILATED, WEATHER-TITE PLACE. STORE ROLLS OF MEMBRANE AND OTHER MATERIALS ON RAISED SURFACE. STAND ALL ROLL MATERIALS ON END. COVER ROLL GOODS WITH A CANVAS TARPAULIN OR OTHER BREATHABLE MATERIAL (NOT POLYETHYLENE).
- DO NOT LEAVE UNUSED MATERIALS ON THE ROOF WHEN ROOFING WORK IS NOT IN PROGRESS UNLESS PROTECTED FROM WEATHER AND OTHER MOISTURE SOURCES.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SECURE ALL MATERIAL AND EQUIPMENT ON THE JOB SITE. IF ANY MATERIAL OR EQUIPMENT IS STORED ON THE ROOF, THE CONTRACTOR MUST MAKE SURE THAT THE INTEGRITY OF THE DECK IS NOT COMPROMISED AT ANY TIME

CUSTOMER NOTES

- ALL OF GARLAND'S SHOP FABRICATED MATERIAL WILL BE MANUFACTURED TO THE DIMENSIONS SHOWN, UNLESS OTHERWISE NOTED.
- IT IS ESSENTIAL THAT ANY NECESSARY CHANGES, NOTATIONS OR REQUESTED INFORMATION BE CLEARLY NOTED ON THE SHOP DRAWINGS
- NO MATERIAL WILL BE CONSIDERED RELEASED FOR FABRICATION UNTIL ALL PERTINENT INFORMATION (I.E. COLOR, DIMENSIONS, MATERIAL CONFIGURATION) HAS BEEN RECEIVED

SCOPE OF WORK

LAKE LAND COLLEGE - FIELD HOUSE - LOW SLOPE SOW

MINERAL MODIFIED BITUMEN ROOF REPLACEMENT: (METAL DECK STRUCTURALLY SLOPED)

- REMOVE EXISTING ROOF DOWN TO DECK AND DISPOSE OF ACCORDING TO ALL LOCAL AND STATE GUIDELINES.
- 2. MECHANICALLY ATTACH 2 LAYERS OF 2.5" POLYISOCYANURATE INSULATION PER SPECIFICATION, USING APPROVED WIND-UP LIFT REQUIREMENTS.
- 3. INSTALL ½ -12 TAPERED CRICKETS AND SADDLES AS INDICATED ON TAPERED INSULATION PRINTS.
- 4. INSTALL 1/2" PRIMED DENS-DECK SET IN APPROVED INSULATION ADHESIVE PER WIND UP LIFT REQUIREMENTS.
- 5. INSTALL MODIFIED SBS BASE SHEET SET IN COLD APPLIED RUBBERIZED ADHESIVE AT 2.0-2.5 GAL PER SQUARE.
- 6. INSTALL MODIFIED MINERAL SBS CAP SHEET SET IN COLD APPLIED RUBBERIZED ADHESIVE AT 2.0-2.5 GAL PER SQUARE AND HEAT WELD ALL FIELD AND FLASHING SEAMS.
- 7. FLASHINGS SHALL CONSIST OF:
 - A.) SBS MODIFIED BASE SHEET SET IN COLD APPLIED FLASHING ADHESIVE AT 5 GAL PER SQUARE. B.) SBS MODIFIED MINERAL CAP SHEET SET IN COLD APPLIED FLASHING ADHESIVE AT 5 GAL PER SQUARE AND HEAT WELD ALL VERTICAL SEAMS
- C.) THREE-COURSE INSIDE AND OUTSIDE CORNERS OF CURBS AND WALLS WITH APPROVED FLASHING ADHESIVE AND MESH
- 8. REPLACE CLAMPING RINGS AND STRAINERS ON DRAINS, MAKE SURE THEY ARE ALL PAINTED WITH RUSTOLEUM FIRE ENGINE RED SPRAY PAINT
- 9. ALL SOIL STACKS AND DRAINS SHALL RECEIVE NEW LEADS
- 10. SEE DRAWINGS FOR ALL METAL FLASHING DETAILS AND COMPONENTS.

DESIGN CRITERIA

WIND UPLIFT REQUIREMENTS: SECTION 1, 3, 7 (STEEL DECK)

ASCE 7-16 ASD DESIGN CODE 2 EXPOSURE CATEGORY 3 IMPORTANCE FACTOR III 1

3. WIND SPEED: 114 MPH 4. DESIGN ROOF HEIGHT 15' 5. MIN. BUILDING WIDTH: 220'

1/4 UNITS PER 12 6 ROOF SLOPE: 7. ROOF ANGLE 1.19 DEG

GABLE

8. PARAPET ≤ 36" ENTIRE ROOF: NO 9. BASE VELOCITY PRESSURE: 14.4 PSF

10. ROOF TYPE: **EDGE ZONES:**

ZONE 1 WIDTH: 9'-0" ZONE 2 WIDTH: 9'-0" ZONE 3 WIDTH: 3'-0" ZONE 3 LENGTH: 9'-0'

ZONE PRESSURES:

ZONE 11: 20.9 PSI WALL PERIMETER ZONE 4: 23.8 PSF ZONE 1: 32.4 PSF WALL CORNER ZONE 5: 28.1 PSF ZONE 2: 41.0 PSF ZONE 3: 54.0 PSF

ANSI/SPRI ES-1 COPING PRELIMINARY DESIGN

PROJECT DATA

DESIGN WIND SPEED: 114 MPH ROOF EAVE HEIGHT: 15.00 FEET TALLEST PARAPET: 5.00 FEET METAL EDGE HEIGHT: 20.00 FEET EXPOSURE CATEGORY: C IMPORTANCE CLASSIFICATION: III

DESIGN WIND PRESSURE FM 1-28 ASD

BASIC VELOCITY PRESSURE: 15:30 PSF HORIZONTAL DESIGN PRESSURE: 29.84 PSF VERT. DESIGN PRESSURE: 57.39 PSF

ES-1 TESTED COPING SYSTEM

PRODUCT DESIGNATION: ES-C24-16-60-16 SYSTEM DESCRIPTION: R-MER EDGE SNAP ON COPING 16" X 24 GA W/ 16 GA ANCHOR CHAIRS AT 60" O.C. MAXIMUM TESTED FRONT LOAD: 74.4 PSF MAX. VERTICAL FRONT DIM.: 6 INCHES MAXIMUM TESTED TOP LOAD: 160 PSF MAX. VERTICAL WIDTH: 16.00 INCHES MAXIMUM TESTED REAR LOAD: 93.9 PSF MAX. VERTICAL REAR DIM.: 4.00 INCHES

ANSI/SPRI ES-1 FASCIA PRELIMINARY DESIGN

DESIGN WIND SPEED: 114 MPH **ROOF EAVE HEIGHT: 15.00 FEET** TALLEST PARAPET: 5.00 FEET METAL EDGE HEIGHT: 20.00 FEET EXPOSURE CATEGORY: C IMPORTANCE CLASSIFICATION: III

DESIGN WIND PRESSURE ASCE 7-16 ASD

BASIC VELOCITY PRESSURE: 15.30 PSF HORIZONTAL DESIGN PRESSURE: 29.84 PSF

ES-1 FASCIA LOAD

VERTICAL FACE DIMENSION: 7.25 INCHES FASCIA DESIGN LOAD: 49.83 PSF

ES-1 TESTED FASCIA SYSTEM

PRODUCT DESIGNATION: MEA-RMF-FASCIA725-Z24 SYSTEM DESCRIPTION: R-MER FORCE FASCIA 7.25" X 24 GA W/ RMFRF-700 BASE FRAME MAXIMUM TESTED LOAD: 320 PSF MAX. VERTICAL FACE DIM.: 7.25 INCHES

WIND UPLIFT REQUIREMENTS: SECTION 2, 6, 8 (STEEL DECK)

ASCE 7-16 ASD DESIGN CODE

2 EXPOSURE CATEGORY IMPORTANCE FACTOR III 1

3. WIND SPEED: 114 MPH DESIGN ROOF HEIGHT 20' MIN. BUILDING WIDTH: 220'

6 ROOF SLOPE: 1/4 UNITS PER 12

ROOF ANGLE 1.19 DEG PARAPET ≤ 36" ENTIRE ROOF NO

BASE VELOCITY PRESSURE: 15.3 PSF 10. ROOF TYPE: **GABLE**

EDGE ZONES:

ZONE 1 WIDTH: 12'-0" ZONE 2 WIDTH: 12'-0" ZONE 3 WIDTH: 4'-0" ZONE 3 LENGTH: 12'-0"

ZONE PRESSURES:

ZONE 11: 22.2 PSF WALL PERIMETER ZONE 4: 25.2 PSF ZONE 1: 34.4 PSF WALL CORNER ZONE 5: ZONE 2: 43.6 PSF ZONE 3: 57.4 PSF

ANSI/SPRI ES-1 COPING PRELIMINARY DESIGN

PROJECT DATA

DESIGN WIND SPEED: 114 MPH **ROOF EAVE HEIGHT: 20.00 FEET** TALLEST PARAPET: 0.00 FEET METAL EDGE HEIGHT: 20.00 FEET EXPOSURE CATEGORY: C IMPORTANCE CLASSIFICATION: III

DESIGN WIND PRESSURE FM 1-28 ASD

BASIC VELOCITY PRESSURE: 15:30 PSE HORIZONTAL DESIGN PRESSURE: 29.84 PSF VERT. DESIGN PRESSURE: 57.39 PSF

ES-1 TESTED COPING SYSTEM

PRODUCT DESIGNATION: ES-C24-16-60-16 SYSTEM DESCRIPTION: R-MER EDGE SNAP ON COPING 16" X 24 GA W/ 24 GA ANCHOR CHAIRS AT 60" O.C. MAXIMUM TESTED FRONT LOAD: 74.4 PSF MAX. VERTICAL FRONT DIM.: 6 INCHES MAXIMUM TESTED TOP LOAD: 160 PSF MAX. VERTICAL WIDTH: 16.00 INCHES MAXIMUM TESTED REAR LOAD: 93.9 PSF MAX. VERTICAL REAR DIM.: 4.00 INCHES

ANSI/SPRI ES-1 FASCIA PRELIMINARY DESIGN

PROJECT DATA

DESIGN WIND SPEED: 114 MPH **ROOF EAVE HEIGHT: 20.00 FEET** TALLEST PARAPET: 0.00 FEET METAL EDGE HEIGHT: 20.00 FEET EXPOSURE CATEGORY: C IMPORTANCE CLASSIFICATION: III

DESIGN WIND PRESSURE ASCE 7-16 ASD

BASIC VELOCITY PRESSURE: 15.30 PSF HORIZONTAL DESIGN PRESSURE: 29.84 PSF

VERTICAL FACE DIMENSION: 7.25 INCHES FASCIA DESIGN LOAD: 49.83 PSF

ES-1 TESTED FASCIA SYSTEM

PRODUCT DESIGNATION: MEA-RMF-FASCIA725-Z24 SYSTEM DESCRIPTION: R-MER FORCE FASCIA 7.25" X 24 GA. W/ RMFBF-700 BASE FRAME MAXIMUM TESTED LOAD: 320 PSF MAX. VERTICAL FACE DIM.: 7.25 INCHES

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BY:



SCOTT C. MALONEY COA: 18400768 LICENSE #: 001020039 EXPIRATION DATE:

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DESIGN CRITERIA

WIND UPLIFT REQUIREMENTS: SECTION 4 (STEEL DECK)

I. DESIGN CODE: ASCE 7-16 ASD 2. EXPOSURE CATEGORY:

3. IMPORTANCE FACTOR: 3. WIND SPEED: 114 MPH 4. DESIGN ROOF HEIGHT: 20'

5. MIN. BUILDING WIDTH: 220' 1/4 UNITS PER 12 ROOF SLOPE: 7. ROOF ANGLE: 1.19 DEG

8. PARAPET ≤ 36" ENTIRE ROOF: NO 9. BASE VELOCITY PRESSURE: 15.3 PSF GABI F 10 ROOF TYPE:

EDGE ZONES:

ZONE 1 WIDTH: 12'-0" ZONE 2 WIDTH: 12'-0" ZONE 3 WIDTH: 4'-0" ZONE 3 LENGTH: 12'-0"

ZONE PRESSURES:

ZONE 3: 57.4 PSF

WALL PERIMETER ZONE 4: 25.2 PSF ZONE 11: 22.2 PSF ZONE 1: 34.4 PSF WALL CORNER ZONE 5: 29.8 PSF ZONE 2: 43.6 PSF

ANSI/SPRI ES-1 COPING PRELIMINARY DESIGN

PROJECT DATA

DESIGN WIND SPEED: 114 MPH **ROOF EAVE HEIGHT: 20.00 FEET** TALLEST PARAPET: 2.00 FEET METAL EDGE HEIGHT: 22.00 FEET EXPOSURE CATEGORY: C IMPORTANCE CLASSIFICATION: III

DESIGN WIND PRESSURE FM 1-28 ASD

BASIC VELOCITY PRESSURE: 15.61 PSF HORIZONTAL DESIGN PRESSURE: 30.45 PSF VERT. DESIGN PRESSURE: 58.55 PSF

ES-1 TESTED COPING SYSTEM

PRODUCT DESIGNATION: ES-C24-16-60-16 SYSTEM DESCRIPTION: R-MER EDGE SNAP ON COPING 16" X 24 GA W/ 24 GA ANCHOR CHAIRS AT 60" O.C. MAXIMUM TESTED FRONT LOAD: 74.4 PSF MAX. VERTICAL FRONT DIM.: 6 INCHES MAXIMUM TESTED TOP LOAD: 160 PSF MAX. VERTICAL WIDTH: 16.00 INCHES MAXIMUM TESTED REAR LOAD: 93.9 PSF

ANSI/SPRI ES-1 FASCIA PRELIMINARY DESIGN

MAX. VERTICAL REAR DIM.: 4.00 INCHES

PROJECT DATA

DESIGN WIND SPEED: 114 MPH ROOF EAVE HEIGHT: 20.00 FEET TALLEST PARAPET: 2.00 FEET METAL EDGE HEIGHT: 22.00 FEET EXPOSURE CATEGORY: C IMPORTANCE CLASSIFICATION: III

DESIGN WIND PRESSURE ASCE 7-16 ASD

BASIC VELOCITY PRESSURE: 15.61 PSF HORIZONTAL DESIGN PRESSURE: 30.45 PSF

FS-1 FASCIA I OAD

VERTICAL FACE DIMENSION: 7.25 INCHES FASCIA DESIGN LOAD: 50.84 PSF

MAX. VERTICAL FACE DIM.: 7.25 INCHES

ES-1 TESTED FASCIA SYSTEM

PRODUCT DESIGNATION: MEA-RMF-FASCIA725-Z24 SYSTEM DESCRIPTION: R-MER FORCE FASCIA 7.25" X 24 GA. W/ RMEBF-700 BASE FRAME MAXIMUM TESTED LOAD: 320 PSF

WIND UPLIFT REQUIREMENTS: SECTION 5 (STEEL DECK)

DESIGN CODE ASCE 7-16 ASD

2. EXPOSURE CATEGORY: IMPORTANCE FACTOR: III 1 3. WIND SPEED: 114 MPH DESIGN ROOF HEIGHT:

MIN. BUILDING WIDTH: 220' 6. ROOF SLOPE: 1/4 UNITS PER 12

ROOF ANGLE: 1.19 DEG 8. PARAPET ≤ 36" ENTIRE ROOF: BASE VELOCITY PRESSURE: 14.4 PSF GABLE

10. ROOF TYPE: **EDGE ZONES:**

ZONE 1 WIDTH: 9'-0" ZONE 2 WIDTH: 9'-0" ZONE 3 WIDTH: 3'-0" ZONE 3 LENGTH: 9'-0"

ZONE PRESSURES:

WALL PERIMETER ZONE 4: 23.8 PSF ZONE 11: 20.9 PSF ZONE 1: 32.4 PSF WALL CORNER ZONE 5: 28.1 PSF ZONE 2: 41.0 PSF ZONE 3: 54.0 PSF

ANSI/SPRI ES-1 COPING PRELIMINARY DESIGN

PROJECT DATA

DESIGN WIND SPEED: 114 MPH **ROOF EAVE HEIGHT: 15.00 FEET** TALLEST PARAPET: 6.00 FEET METAL EDGE HEIGHT: 21.00 FEET EXPOSURE CATEGORY: C IMPORTANCE CLASSIFICATION: III

DESIGN WIND PRESSURE FM 1-28 ASD

BASIC VELOCITY PRESSURE: 15.46 PSF HORIZONTAL DESIGN PRESSURE: 30.15 PSF VERT. DESIGN PRESSURE: 57.98 PSF

ES-1 TESTED COPING SYSTEM

PRODUCT DESIGNATION: ES-C24-16-60-16 SYSTEM DESCRIPTION: R-MER EDGE SNAP ON COPING 16" X 24 GA W/ 16 GA ANCHOR CHAIRS AT 60" O.C. MAXIMUM TESTED FRONT LOAD: 74.4 PSF MAX. VERTICAL FRONT DIM.: 6 INCHES MAXIMUM TESTED TOP LOAD: 160 PSF MAX. VERTICAL WIDTH: 16.00 INCHES MAXIMUM TESTED REAR LOAD: 93.9 PSF MAX. VERTICAL REAR DIM.: 4.00 INCHES

ANSI/SPRI ES-1 FASCIA PRELIMINARY DESIGN

PROJECT DATA

DESIGN WIND SPEED: 114 MPH **ROOF EAVE HEIGHT: 15.00 FEET** TALLEST PARAPET: 6.00 FEET METAL EDGE HEIGHT: 21.00 FEET EXPOSURE CATEGORY: C IMPORTANCE CLASSIFICATION: III

DESIGN WIND PRESSURE ASCE 7-16 ASD

BASIC VELOCITY PRESSURE: 15 46 PSF HORIZONTAL DESIGN PRESSURE: 30.15 PSF

ES-1 FASCIA LOAD

VERTICAL FACE DIMENSION: 7.25 INCHES FASCIA DESIGN LOAD: 50.35 PSF

ES-1 TESTED FASCIA SYSTEM

PRODUCT DESIGNATION: MEA-RMF-FASCIA725-Z24 SYSTEM DESCRIPTION: R-MER FORCE FASCIA 7.25" X 24 GA. W/ RMEBF-700 BASE FRAME MAXIMUM TESTED LOAD: 320 PSF MAX. VERTICAL FACE DIM.: 7.25 INCHES

HOUSE FIELD COLLEGE - F 5009 LAKE LAND BOULEVA MATTOON, IL 61938 ROJECT NO: 30-ES-240237 AND LAKE

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AND REP:

FRB

BY:

SCOTT

CHRISTOPHER

MALONEY

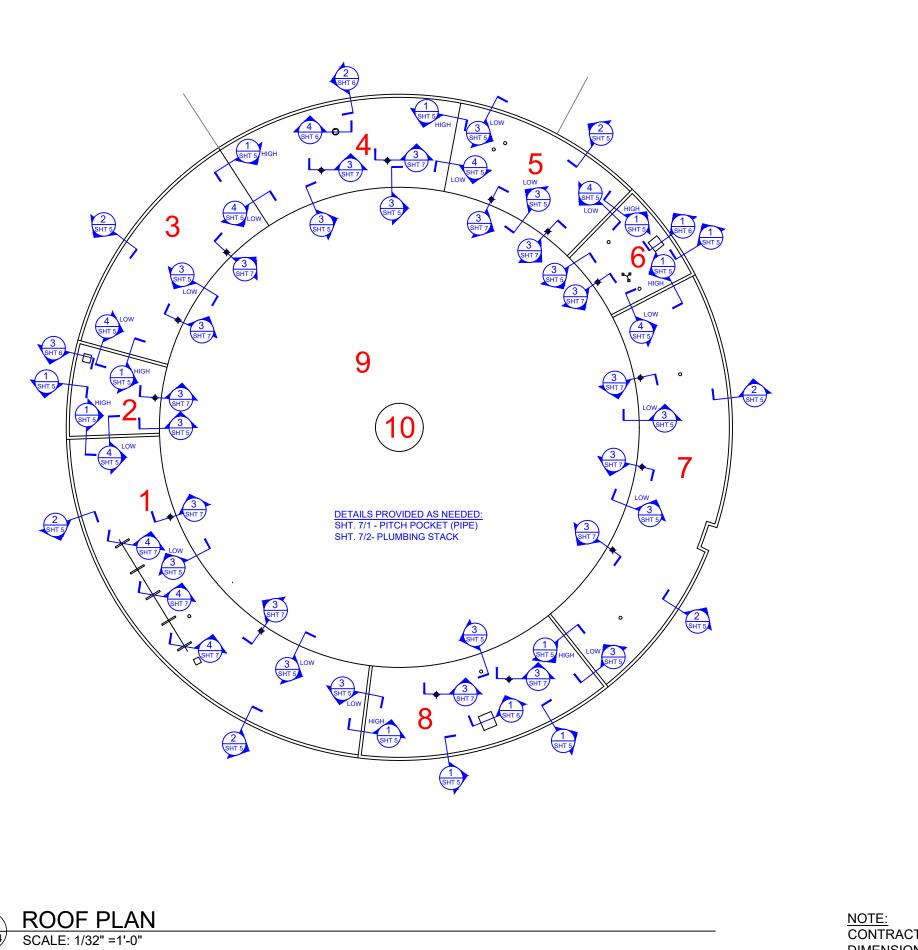
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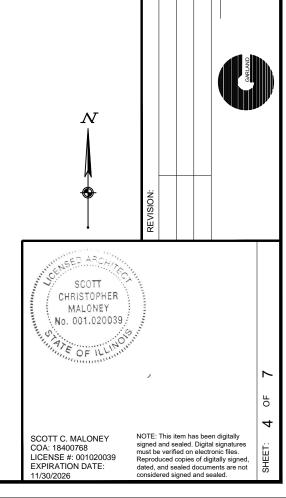
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SCOTT C. MALONEY COA: 18400768 LICENSE #: 001020039 **EXPIRATION DATE:**

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NOTE: CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, CONDITIONS, AND QUANTITIES

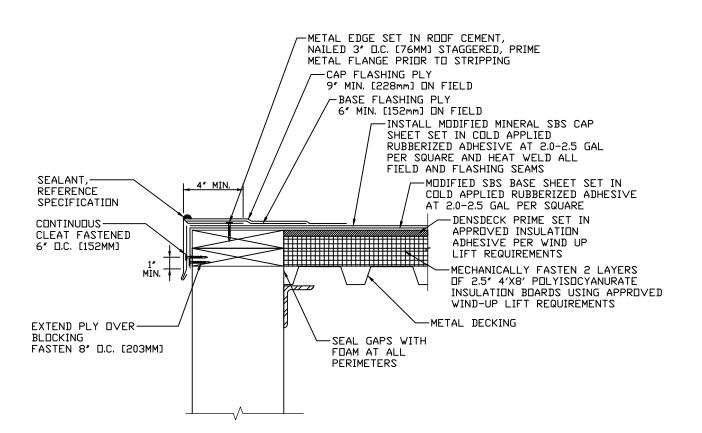


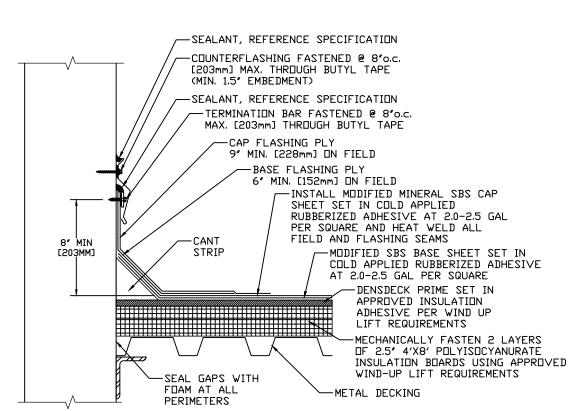
LAKE LAND COLLEGE - FIELD HOUSE
5009 LAKE LAND BOULEVARD
MATTOON, IL 61938
EP: REP NAME PROJECT NO: 30-ES-240237 DATE: 12/14/2024 DWG BY: FRB

nc.

GARLAND / DBS INC. 3800 EAST 91st STREET - CLEVELAND, OHIO 44105-2197 PHONE (800) 321-9336 / FAX (216) 641-0633

GARLAND REP: REP NAME



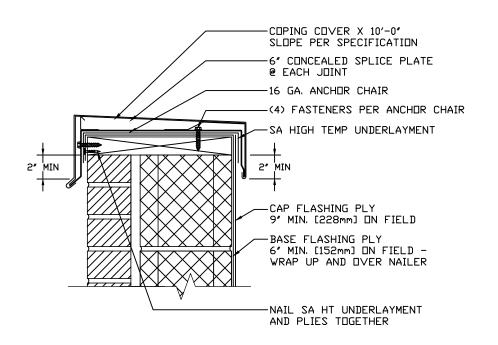


SURFACE MOUNTED COUNTERFLASHING

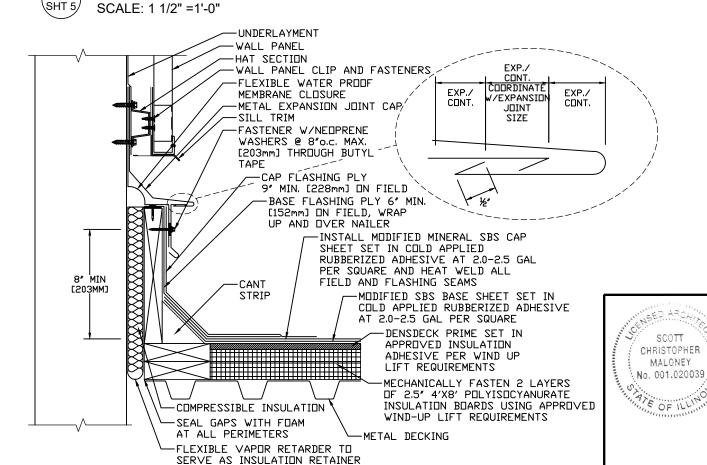
SCALE: 1 1/2" =1'-0"

DRIP EDGE

SCALE: 1 1/2" =1'-0"



COPING CAP AT MASONRY WALL



EXPANSION JOINT AT WALL PANEL SCALE: 1 1/2" =1'-0"

COA: 18400768 LICENSE #: 001020039 EXPIRATION DATE:

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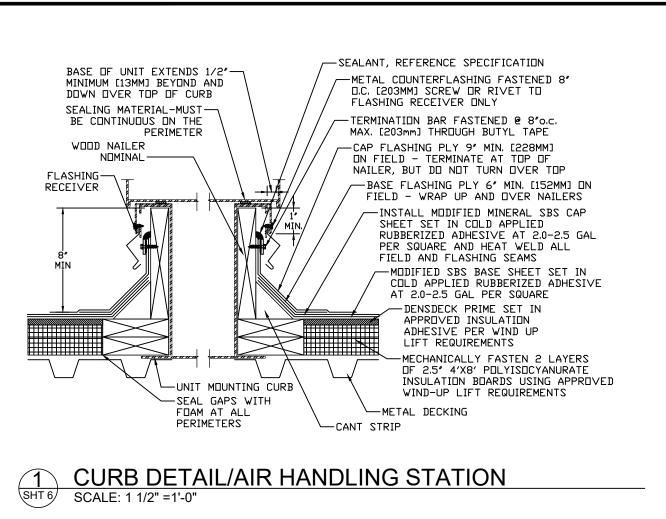
COLLEGE - F 5009 LAKE LAND BOULEVA MATTOON, IL 61938 ROJECT NO: 30-ES-240237

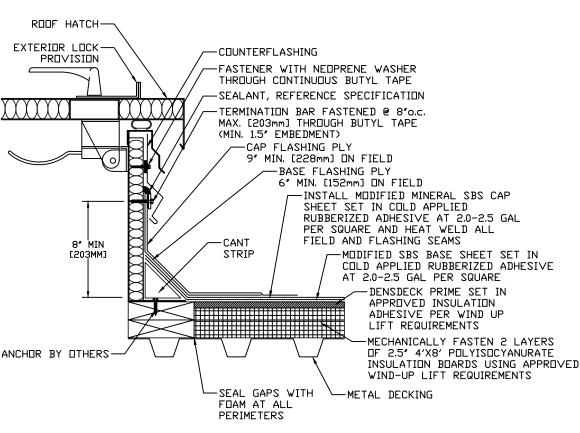
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GARLAND OF THE STREET - PHONE (800) 321-93



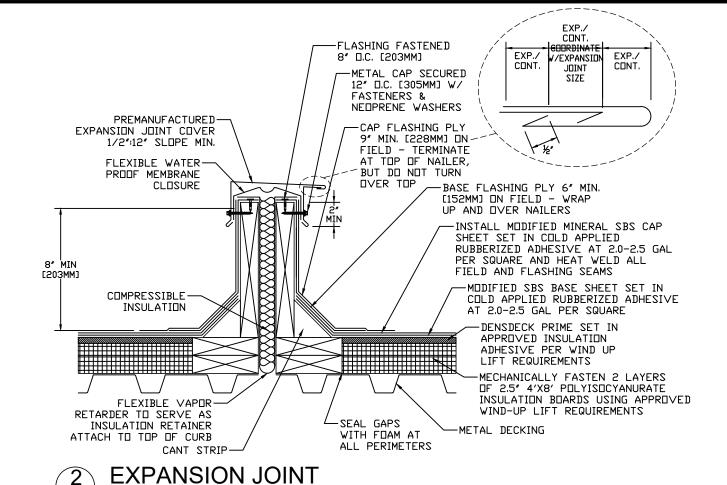


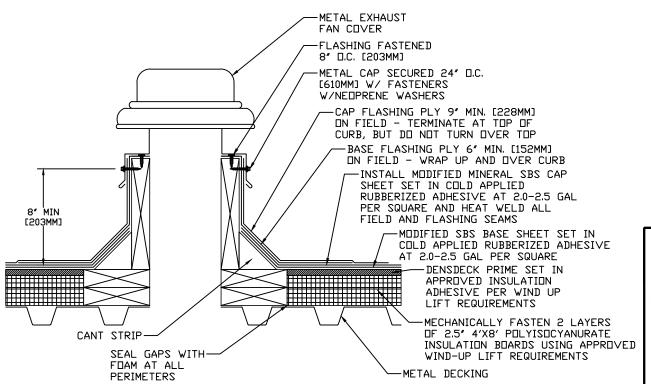




ROOF HATCH

SCALE: 1 1/2" =1'-0"







SCALE: 1 1/2" =1'-0"

SCOTT CHRISTOPHER MALONEY No. 001.020039 ATE OF ILL

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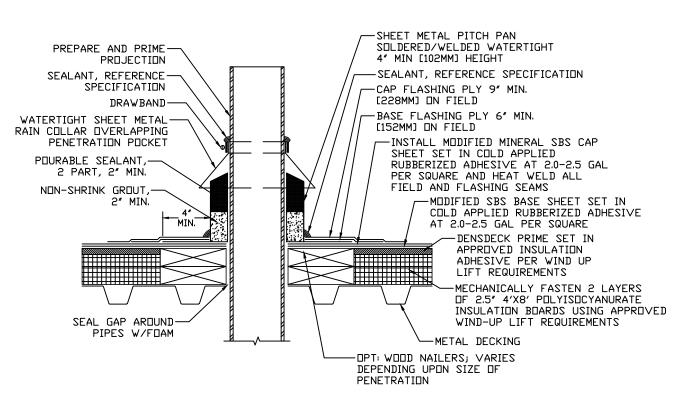
AND REP:

GARLAND OF THE STREET - PHONE (800) 321-93

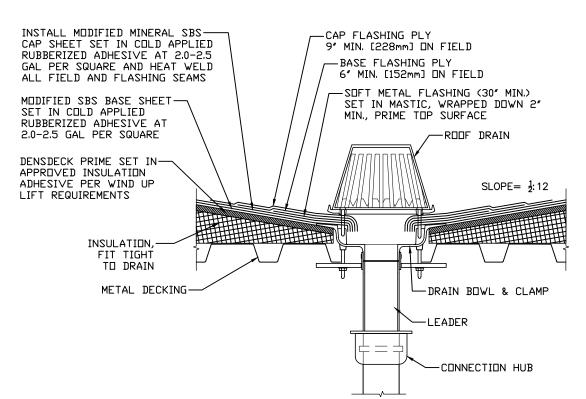
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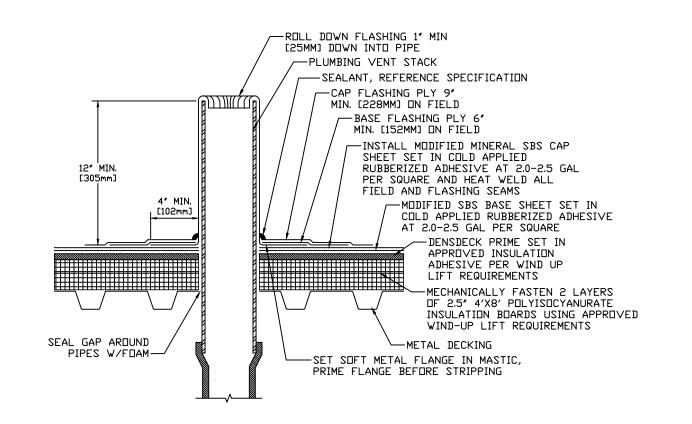
EXHAUST FAN SCALE: 1 1/2" =1'-0"





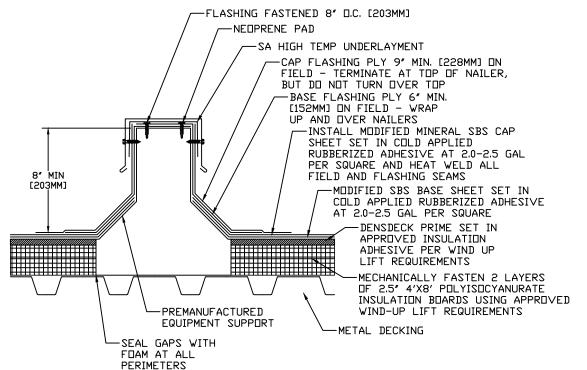




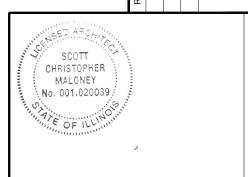


PLUMBING STACK

SCALE: 1 1/2" =1'-0"







HOUSE

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COLLEGE - I 5009 LAKE LAND BOULEVA MATTOON, IL 61938 ROJECT NO: 30-ES-240237

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COA: 18400768 LICENSE #: 001020039 EXPIRATION DATE:

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