CONSTRUCTION: CORE SAMPLES 1 & 2
METAL DECK PANELS
3" EPS INSULATION ADHERED WITH ASPHALT BITUMEN
½" PERLITE ADHERED WITH ASPHALT BITUMEN
FULLY ADHERED EPDM SINGLE-PLY ROOF MEMBRANE

CONSTRUCTION: CORE SAMPLE 3
METAL DECK PANELS
2" EPS INSULATION ADHERED WITH ASPHALT BITUMEN
¾" HD POLYISO BOARD ADHERED WITH ASPHALT BITUMEN
FULLY ADHERED EPDM SINGLE-PLY ROOF MEMBRANE

DEMOLITION NOTES: BOTANY GREENHOUSE

1. CUT 12" SLITS IN EPDM ROOF MEMBRANE ON BOTH ROOF SECTIONS – 6/100 S.F.
2. REMOVE DEBRIS FROM EPDM ROOF SURFACES
3. REMOVE EXISTING PITCH PANS FROM AROUND PENETRATIONS
4. REMOVE EXISTING METAL PERIMETER FASCIA FROM LOW PARAPETS
5. REMOVE EXISTING EPDM MEMBRANE FLASHING FROM PARAPETS AND PROJECTIONS
6. REMOVE EXISTING METAL COUNTERFLASHING FROM GREENHOUSE WALLS
7. REMOVE EXISTING DRAIN RETAINING RINGS
8. REMOVE ALL EXISTING WOOD SUPPORTS FROM UNDER A/C & DUCTWORK LEGS
9. REMOVE EXISTING RUBBER WALK-TREDS
10. ROOF 1 - REMOVE FLASHING FROM AROUND SOIL STACKS
11. REMOVE PITCH PANS AROUND ELECTRICAL CONDUIT

2,295 S.F. IN AREA
531 S.F. IN AREA
RENOVATION NOTES: BOTANY GREENHOUSE

1. INSTALL ½" HD POLYISO BOARD, MECHANICALLY FASTENED THROUGH THE EPDM MEMBRANE INTO THE METAL DECK SYSTEM. 12 FASTENERS PER 4' X 8' BOARD.
2. INSTALL 1/8"-12" TAPERED POLYISO BOARD W/ LOW RISE FOAM ADHESIVE. APPLY WITH ½" THICK RIBBONS, 6" APART.
3. INSTALL ½" HD POLYISO BOARD WITH LOW RISE FOAM ADHESIVE.
4. FULLY ADHERE 50 MIL THICK EPDM SINGLE-Ply MEMBRANE TO THE HD POLYISO BOARD.
5. ROOF SECTION #1: INSTALL NEW KYNAR COATED 24 GA. FASCIA WITH 22 GA. CONTINUOUS CLEAT ON ALL SIDES OF LOW PARAPET WALL.
6. INSTALL EPDM SINGLE-Ply MEMBRANE OVER LOW PARAPET WALL BETWEEN SECTION #1 AND SECTION #2. CARRY ONTO SECTION #2 ROOF A MINIMUM OF 6".
7. INSTALL NEW .040" ALUMINUM COUNTERFLASHING AROUND THE BASE OF ALL CURBS. FASTEN 12" O.C.
8. INSTALL NEW .040" ALUMINUM COUNTERFLASHING AT THE BASE OF THE GREENHOUSE SECTIONS ON ROOF SECTION #2. FASTEN 12" O.C.
9. RAISE CURBS AS NECESSARY TO PROVIDE 8" MINIMUM HEIGHT.
10. INSTALL NEW PITCH POCKETS AROUND ALL PROJECTIONS. FILL WITH 2 COMPONENT SEALANT.
11. INSTALL NEW WALK-TREDS AROUND ALL EQUIPMENT REQUIRING PERIODIC SERVICING.
12. INSTALL A/C UNITS ON NEW COMPOSITE SUPPORTS.

2,295 S.F. IN AREA
531 S.F. IN AREA
Architect -
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OF RMT ROOFING AND WATERPROOFING CONSULTANTS, INC.
410 SOVEREIGN COURT #18
MANCHESTER, MO 63011
(636)-391-2185
CP200221
VARIOUS LOCATIONS: ROOF REPLACEMENT - COLUMBIA, BOONE COUNTY, MISSOURI
BOTANY GREENHOUSE
COLUMBIA, BOONE COUNTY, MISSOURI 65211
DETAILS
A103
DEMOLITION NOTES: VET MEDICINE PENTHOUSE

1. REMOVE EXISTING ENTIRE ROOF ASSEMBLY DOWN TO STEEL DECK.
2. SWEEP CLEAN, TO INCLUDE DECK FLUTES, STEEL DECK OF ALL DEBRIS
3. REMOVE ALL EXISTING MEMBRANE FLASHING AROUND ALL PROJECTIONS
4. REMOVE LEAD STACK FLASHING AND ALL PITCH POCKETS
5. REMOVE EXISTING MEMBRANE FLASHING FROM PARAPETS
6. REMOVE EXISTING PAINTED METAL COPING FROM LOW PARAPET WALLS
7. REMOVE EXISTING DRAIN LEAD FLASHING AND RETAINING RINGS
8. REMOVE PITCH PANS FROM LADDER LEG SUPPORTS
9. REMOVE EXISTING EXTRUDED ALUMINUM COPING DETAIL AND SAVE FOR RE-INSTALL
10. LADDER RAILING SUPPORT TO REMAIN

5,000 S.F. IN AREA

EXISTING ROOF CONSTRUCTION
CORE 1: STEEL DECK, VAPOR BARRIER, 2" PERLITE, 2" PERLITE, 4 PLY COAL TAR PITCH AND GRAVEL
CORE 2: STEEL DECK, VAPOR BARRIER, 2" PERLITE, 2" PERLITE, 2" PERLITE, 4 PLY COAL TAR PITCH AND GRAVEL

DEMOLITION NOTES: VET MEDICINE PENTHOUSE
- REMOVE EXISTING ENTIRE ROOF ASSEMBLY DOWN TO STEEL DECK
- SWEEP CLEAN, TO INCLUDE DECK FLUTES, STEEL DECK OF ALL DEBRIS
- REMOVE ALL EXISTING MEMBRANE FLASHING AROUND ALL PROJECTIONS
- REMOVE LEAD STACK FLASHING AND ALL PITCH POCKETS
- REMOVE EXISTING MEMBRANE FLASHING FROM PARAPETS
- REMOVE EXISTING PAINTED METAL COPING FROM LOW PARAPET WALLS
- REMOVE EXISTING DRAIN LEAD FLASHING AND RETAINING RINGS
- REMOVE PITCH PANS FROM LADDER LEG SUPPORTS
- REMOVE EXISTING EXTRUDED ALUMINUM COPING DETAIL AND SAVE FOR RE-INSTALL
- LADDER RAILING SUPPORT TO REMAIN

5,000 S.F. IN AREA
RENOVATION NOTES: VET MED PENTHOUSE:
1. INSTALL SELF ADHERED VAPOR BARRIER TO PRIMED METAL DECK.
2. INSTALL BASE LAYER OF 2.0" POLYISOCYANurate- MECHANICALLY ATTACHED TO METAL DECK WITH A 1-90 FASTENING PATTERN.
3. INSTALL 2"-12" TAPERED POLYISOCYANurate BOARD INSULATION, ADHERED W/ LOW RISE FOAM ADHESIVE.
4. INSTALL ½" HD COVERBOARD TO TAPERED POLYISOCYANurate- ADHERED WITH LOW RISE FOAM ADHESIVE.
5. INSTALL SINGLE FLY EPDM ROOF MEMBRANE—FULLY ADHERED TO ½" HD COVERBOARD.
6. REINSTALL EXISTING EXTRUDED ALUMINUM COPING METAL WHERE REMOVED. INSTALL NEW COPING PANEL END CLOSURE.
7. INSTALL NEW 26 GA. KYNAR COATED METAL COPING WITH 24 GA. CONTINUOUS CLEAT. FASTEN COPING 12" o.c ON INSIDE FACE. FASTEN CONTINUOUS CLEAT 12" o.c. COLOR TO BE SELECTED BY OWNER.
8. INSTALL NEW PITCH PANS AROUND ACCESS LADDER SUPPORTS.
9. NEW SOIL STACK FLASHING.
10. INSTALL NEW DRAIN FLASHING.
11. INSTALL 48" SUMP AT ALL DRAIN LOCATIONS.
12. INSTALL NEW 26 GA. KYNAR COATED SURFACE MOUNT COUNTERFLASHING AROUND ALL ROOFTOP UNITS. MECHANICALLY FASTEN EXHAUST UNIT CAPS TO BASE SUPPORTS. SECURE FASTENERS 12" o.c.
13. INSTALL NEW EPDM FLASHING MEMBRANE AROUND ALL PROJECTIONS.
14. INSTALL NEW 'CONE CAPS' AROUND CYLINDRICAL PROJECTIONS.
15. INSTALL FLASHING AROUND ALL SOIL STACKS.
16. EXISTING PENTHOUSE LADDER TO REMAIN. INSTALL ½" PLYWOOD AT ALL EGRESSES UNDER EPDM MEMBRANE.

1,241 S.F. IN AREA
CONSTRUCTION: CORE SAMPLES 1 & 2
CORE SAMPLE #1
STRUCTURAL Poured CONCRETE DECK
LIGHTWEIGHT INSULATING CONCRETE
MECHANICALLY ATTACHED BASE PLY MEMBRANE
½" PERLITE ADHERED WITH ASPHALT BITUMEN
3 PLY COAL TAR PITCH AND GRAVEL
CORE SAMPLE #2
METAL DECK SYSTEM
3" BOARD INSULATION
3 PLY COAL TAR PITCH AND GRAVEL
ROOF AREA #1: 4,935 S.F.
ROOF AREA #2: 121 S.F.

DEMOLITION NOTES - DALTON:
1. REMOVE EXISTING ROOF ASSEMBLY, INCLUDING LIGHTWEIGHT TO CONCRETE DECK.
2. REMOVE EXISTING ROOF ASSEMBLY OVER ENTRANCE CANOPY TO STEEL DECK.
3. CLEAN DECK OF ALL DIRT DUST AND DEBRIS
4. REMOVE ALL ROOFING RELATED FLASHINGS.
5. REMOVE ALL ASSOCIATED SHEET METAL DETAILS INCLUDING METAL COPING ON LOW PARAPET WALLS.
6. EXISTING ROOF DRAINS TO REMAIN. REMOVE STRAINER AND CLAMPING RING FOR REINSTALLATION.
7. EXISTING CURB MOUNTED EQUIPMENT TO REMAIN. REMOVE SURROUNDING FLASHINGS.
8. EXISTING PLUMBING VENTS TO REMAIN. REMOVE ALL ASSOCIATED FLASHING.
9. REMOVE ALL EXISTING COUNTERFLASHING AT WALLS.
10. REMOVE ALL EXISTING METAL FASCIA AT PERIMETER.
11. REMOVE EXISTING RETROFIT DRAINS
RENOVATION NOTES: DALTON

1. PRIME CONCRETE DECK WITH APPROVED PRIMER.
2. INSTALL SELF-ADHERING BASE PLY MEMBRANE TO PRIMED DECK.
3. INSTALL ONE LAYER OF 2.0" POLYISO BOARD INSULATION TO THE PRIMED CONCRETE DECK WITH LOW RISE FOAM ADHESIVE.
4. INSTALL 1/8"-12" TAPERED POLYISO BOARD INSULATION WITH LOW RISE FOAM ADHESIVE.
5. INSTALL ONE LAYER 2.0" POLYISO BOARD INSULATION, MECHANICALLY ATTACHED TO METAL DECK OVER ENTRANCE CANOPY. SECURE WITH ONE FASTENER EVERY 2 S.F.
6. FULLY ADHERED 80 MIL THICK EPDM SINGLE-PLY MEMBRANE. CARRY MEMBRANE UPON VERTICAL SURFACES FOR FLASHING.
7. INSTALL MEMBRANE FLASHING TO ALL WALLS.
8. INSTALL MEMBRANE FLASHING TO ALL CURBS.
9. INSTALL PLUMBING VENT FLASHING.
10. INSTALL 24 GA. KYNAR COATED METAL FASCIA AT PERIMETER. INSTALL 22 GA. CONTINUOUS CLEAT.
11. INSTALL NEW 24 GA. KYNAR COATED METAL COPING ON ALL LOW PARAPET WALLS. FASTEN 12" o.c.
12. INSTALL NEW 22 GA. METAL COUNTERFLASHING AT ALL WALLS. FASTEN 12" o.c.
13. INSTALL DRAIN FLASHING TO ALL DRAINS.
14. INSTALL TAPERED INSULATION WITH SLOPE TO PERIMETER METAL FASCIA.
15. APPLY SEALANT TO ALL SPANDREL PANELS AND AROUND ALL WINDOW OPENINGS
COPING ON WALL JOINT

APPLY DOW 791 ELASTOMERIC SEALANT

EXISTING EPDM MEMBRANE - DO NOT DISTURB
EXISTING COUNTERFLASHING - METAL - DO NOT DISTURB

APPLY ELASTOMERIC SEALANT TO ALL STONE COPING JOINTS - TOOL SMOOTH

CLOSED CELL FOAM BACKER ROD - COMPRESSED 33%

PROJECT NUMBER

DRAWN BY:

CHECKED BY:

ARCHITECT -

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MANCHESTER, MO 63011
(636)-391-2185

VARIOUS LOCATIONS - ROOF REPLACEMENT
COLUMBIA, BOONE COUNTY, MISSOURI 65211
RENOVATION ROOF PLAN

DEDEMOLITION: MIDDLEBUSH HALL
1. REMOVE ALL EXISTING SEALANT IN JOINTS BELOW COPING AND IN JOINTS BETWEEN COPING STONES

RENOVATION: MIDDLEBUSH HALL
1. GRIND ALL STONE COPING JOINTS
2. REMOVE WICKS
3. INSTALL NEW CLOSED CELL POLYETHYLENE BACKER ROD
4. CAULK WITH 1 PART SEALANT - SAND FINISH
5. APPROXIMATELY 2,246 LINEAL FEET OF SEALANT APPLICATION