Missouri School for the Blind
Saint Louis, Missouri

Roof Replacement
Missouri School for the Blind
Saint Louis, Missouri

patterhn ives llc
7751 carondelet avenue
clayton tower suite 500
st louis missouri 63103

OWNER:
STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR
DEPARTMENT OF
ELEMENTARY AND SECONDARY
EDUCATION

PROJECT MANAGEMENT:
OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT, DESIGN AND
CONSTRUCTION

DESIGNER:
PATTERHN IVES, LLC
PROJECT NUMBER: E1908-01
ASSET NUMBERS: 5012011007
5012011009

LIST OF DRAWINGS:
G-001 COVER
A-100 OVERALL ROOF PLAN
A-101 ENLARGED ROOF PLAN
A-102 ENLARGED ROOF PLAN
A-103 ENLARGED ROOF PLANS
A-500 EXISTING ROOF ASSEMBLIES
A-501 ROOF ASSEMBLIES
A-502 ROOF DETAILS
A-503 ROOF DETAILS
A-504 ROOF DETAILS

AERIAL LOCATION MAP
MISSOURI SCHOOL FOR THE BLIND - 3815 MAGNOLIA AVENUE, SAINT LOUIS MISSOURI
TRUE NORTH TRANSITIONS AND SEALANT

REPLACE GUTTERS AND DOWNSPOUTS

ALTERNATE 2: WINDOW SILL FLASHING, REF 09/A-504. REMOVE EXIST MEMBRANE, FLASHING, METAL

ALTERNATES KEY

ROOF PLAN GENERAL NOTES

1. REMOVE EXIST FLASHING AT EXIST PENETRATIONS (E.G. VENT, GOVERNOR, COLLAR, AND ROOFTOP ACCESS) AND ERROR NECESSARY TO ACCOMMODATE THE HEIGHT OF NEW ROOF ASSEMBLIES AND EDGE PROFILES. PERIMETER FASTENER RATES AND ADHESIVE BEAD PATTERN DENSITIES AT PERIMETERS PER TESTED FM GLOBAL SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.

2. METAL FLASHING BEING REQUIRED TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO INSTALLATION AND FIELD VERIFICATION OF ROOF ASSEMBLIES AND DETAILS AND YOUR FIELD REQUEST. EXISTING FLASHING SHOULD BE CLEANED, PREPARED, AND MADE SUITABLE FOR USE, AND SHOULD BE APPLIED TO THE CURB AS REQUIRED.

3. CONTRACTOR TO INSTALL ROOF PENETRATION FLASHING AT EXIST PENETRATIONS AS PER CONTRACTOR'S FIELD VERIFICATION.

4. CONTRACTOR TO INSTALL ROOF PENETRATION FLASHING AT EXIST PENETRATIONS AS PER CONTRACTOR'S FIELD VERIFICATION. METAL FLASHING IS REQUIRED TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. REMOVE EXIST MEMBRANE AND METAL FLASHING WILL BE CLEANED, PREPARED, AND MADE SUITABLE FOR USE, AND SHALL BE APPLIED TO THE CURB AS REQUIRED.

5. INSTALL ALL PIPE AND DRAINAGE COMPONENTS TO ACCEPT NEW ROOF ASSEMBLIES.

6. CONTRACTOR TO INSTALL ALL PIPE AND DRAINAGE COMPONENTS TO ACCEPT NEW ROOF ASSEMBLIES.

7. CONTRACTOR TO INSTALL ALL Pipe AND DRAINAGE COMPONENTS TO ACCEPT NEW ROOF ASSEMBLIES.

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ROOF PLAN GENERAL NOTES

- REMOVE EXISTING NON-FUNCTIONING EQUIPMENT, ASSOCIATED SUPPORTS / CURBS, AND CONDUIT. INSTALL 3/16" DIAM. METAL TRIM FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS UNLESS NEEDED FOR 12" MIN FLASHING HEIGHT. FULLY ADHERE AND TERMINATE NEW FLASHING TO THE CURB AS REQUIRED FOR 12" MIN FLASHING HEIGHT. FULLY ADHERE AND TERMINATE NEW FLASHING TO THE CURB AS REQUIRED FOR 12" MIN FLASHING HEIGHT.

- INSTALL PRE-MANUFACTURED SUPPORTS UNDER ALL ELEC CONDUIT AND CONDENSATE LINES SERVING EQUIPMENT TO REMAIN AND SPACE 6'-0" OC. PROVIDE NEW CONDENSATE LINES FOR EQUIPMENT TO REMAIN OTHERWISE NOTED.

- METAL TRIM FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS UNLESS NEEDED FOR 12" MIN FLASHING HEIGHT. FULLY ADHERE AND TERMINATE NEW FLASHING TO THE CURB AS REQUIRED FOR 12" MIN FLASHING HEIGHT.

- INSTALL DRAIN BOWLS UNDER UNIT COST AS APPROVED. REFERENCE A-101 FOR LOCATIONS AND RUN LINES TO NEAREST GUTTER / DRAIN.

- INSTALL PRE-MANUFACTURED SUPPORTS UNDER ALL ELEC CONDUIT AND CONDENSATE LINES SERVING EQUIPMENT TO REMAIN AND SPACE 6'-0" OC. PROVIDE NEW CONDENSATE LINES FOR EQUIPMENT TO REMAIN OTHERWISE NOTED.

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- INSTALL DRAIN BOWLS UNDER UNIT COST AS APPROVED. REFERENCE A-101 FOR LOCATIONS AND RUN LINES TO NEAREST GUTTER / DRAIN.
2. Minimum two (2) layers insulation, stagger joints.

NOTES:
1. Partial concrete decking for positive slope to drain, rep pave.
2. Minimum two (2) layers insulation, stagger joints.

EXIST WOOD PLANK DECKING
EXIST SLOPED CONCRETE DECK
EXIST SLOPED GYPSUM DECK

FULLY-ADHERED BASE SHEET
MECHANICALLY-FASTENED BASE SHEET
FULLY-ADHERED 1/2" HD POLYISO INSULATION
FULLY-ADHERED 60 MIL TPO MEMBRANE
COATED GLASS FACER, ADHERE IN LOW-RISE FOAM
FULLY-ADHERED 1/2" HD POLYISO INSULATION, ADHERE IN LOW-RISE FOAM, TWO (2) LAYERS 2.6" FLAT STOCK POLYISO W/ COATED GLASS FACER

A-501
ROOF ASSEMBLY - K DORMITORY
ROOF ASSEMBLY - DINING CANTEEN (AREA B)
ROOF ASSEMBLY - C & D DORMITORY
ROOF ASSEMBLY - MHD ANNEX (AREAS 3 - 6 & 8) - ALTERNATE 4
ROOF ASSEMBLY - DINING CANTEEN (AREAS A & D)
ROOF ASSEMBLY - ADMINISTRATION (AREA 2)
ROOF ASSEMBLY - ADMINISTRATION (AREA 1)
ROOF ASSEMBLY - MHD ANNEX (AREAS 1, 2 & 7) - ALTERNATE 2
ROOF ASSEMBLY - SCHOOL FOR THE BLIND

MINIMUM TWO (2) LAYERS INSULATION, STAGGER JOINTS.

INSTALL CRICKETS AS SHOWN IN PLAN FOR POSITIVE SLOPE, TRANSITION INTO ADJOINING ROOF AREAS.

EXIST LIGHTWEIGHT CONCRETE DECK
MECHANICALLY-FASTENED BASE SHEET

1. Partial concrete decking for positive slope to drain, rep pave.
2. Minimum two (2) layers insulation, stagger joints.
3. Minimum two (2) layers insulation, stagger joints.

ADHERE TO MANUFACTURER-APPROVED SURFACE.

FACER, MECHANICALLY FASTEN TO DECK
FULLY-ADHERED 1/2" HD POLYISO INSULATION
FULLY-ADHERED 60 MIL TPO MEMBRANE
COATED GLASS FACER, ADHERE IN LOW-RISE FOAM
FULLY-ADHERED 1/2" HD POLYISO INSULATION, ADHERE IN LOW-RISE FOAM, TWO (2) LAYERS 2.6" FLAT STOCK POLYISO W/ COATED GLASS FACER

A-501
ROOF ASSEMBLY - MHD WARES AREAS 1-3-4-5-6-7, ALTERNATE 2
ROOF ASSEMBLY - MHD WARES AREAS 1-2, ALTERNATE 3
ROOF ASSEMBLY - ADMINISTRATION AREA 1
ROOF ASSEMBLY - ADMINISTRATION AREA 2
ROOF ASSEMBLY - DINING CAFETERIA / LIBRARY
ROOF ASSEMBLY - ROOF REPLACEMENT

MINIMUM TWO (2) LAYERS INSULATION, STAGGER JOINTS.

8 IN 3”=1'-0"

ARCHITECT:
pattern lens co

MICHAEL L. PARSON,
GOVERNOR

GOVERNOR

OFFICE OF ADMINISTRATION
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MISSOURI SCHOOL FOR THE BLIND
3815 MAGNOLIA AVENUE
SAINT LOUIS, MO 63110

STATE OF MISSOURI

ARCHITECT:
ROOTECH CONSULTING, INC

ROOF ASSEMBLY:

REVISION:

DATE:

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CADD DRAWING SD NO.
04-08-2020

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ASSET # 5012011007
5012011009

ARCHITECT:

MICHAEL L. PARSON,
GOVERNOR

ROOF ASSEMBLY:

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ROOF ASSEMBLY:
NOTES:
1. IF ROOF MEMBRANE SEAMS IN BLOCKING, 26") GRATE, CUT ALL PENETRATION LOCATION SEAMS TO COVER BLOCK IN BLOCKING MATERIAL MEMBRANE
2. MATERIALS TO BE SELECTED BASED ON SYSTEM SPECIFICATIONS. MATERIALS SHOWN ARE APPROVED FOR THE ITEMS LISTED.
3. MATERIALS ARE NOT ACCEPTABLE. CONSIDER MATERIALS TO BE INCLUDED/EXCLUDED/PROCESSED LAST COST.
4. PROVIDE COATED METAL AS REQUIRED.

TYPICAL PIPE FLASHING

4. APPLY POLYURETHANE SEALANT TO ALL EXPOSED REINFORCEMENTS.

5. PROVIDE COATED METAL AS REQUIRED TO RELATED INSECURE DRAIN DETAIL.

NOTES:
1. IF ROOF MEMBRANE SEAMS IN BLOCKING, 26") GRATE, CUT ALL PENETRATION LOCATION SEAMS TO COVER BLOCK IN BLOCKING MATERIAL MEMBRANE
2. MATERIALS TO BE SELECTED BASED ON SYSTEM SPECIFICATIONS. MATERIALS SHOWN ARE APPROVED FOR THE ITEMS LISTED.
3. MATERIALS ARE NOT ACCEPTABLE. CONSIDER MATERIALS TO BE INCLUDED/EXCLUDED/PROCESSED LAST COST.
4. PROVIDE COATED METAL AS REQUIRED.

TYPICAL INTERNAL DRAIN DETAIL

NOTES:
1. IF ROOF MEMBRANE SEAMS IN BLOCKING, 26") GRATE, CUT ALL PENETRATION LOCATION SEAMS TO COVER BLOCK IN BLOCKING MATERIAL MEMBRANE
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3. MATERIALS ARE NOT ACCEPTABLE. CONSIDER MATERIALS TO BE INCLUDED/EXCLUDED/PROCESSED LAST COST.
4. PROVIDE COATED METAL AS REQUIRED.

TYPICAL HOT FLUE FLASHING

NOTES:
1. IF ROOF MEMBRANE SEAMS IN BLOCKING, 26") GRATE, CUT ALL PENETRATION LOCATION SEAMS TO COVER BLOCK IN BLOCKING MATERIAL MEMBRANE
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3. MATERIALS ARE NOT ACCEPTABLE. CONSIDER MATERIALS TO BE INCLUDED/EXCLUDED/PROCESSED LAST COST.
4. PROVIDE COATED METAL AS REQUIRED.

TYPICAL BASE CURB FLASHING DETAILS

NOTES:
1. IF ROOF MEMBRANE SEAMS IN BLOCKING, 26") GRATE, CUT ALL PENETRATION LOCATION SEAMS TO COVER BLOCK IN BLOCKING MATERIAL MEMBRANE
2. MATERIALS TO BE SELECTED BASED ON SYSTEM SPECIFICATIONS. MATERIALS SHOWN ARE APPROVED FOR THE ITEMS LISTED.
3. MATERIALS ARE NOT ACCEPTABLE. CONSIDER MATERIALS TO BE INCLUDED/EXCLUDED/PROCESSED LAST COST.
4. PROVIDE COATED METAL AS REQUIRED.

TYPICAL HOT FLUE FLASHING

NOTES:
1. IF ROOF MEMBRANE SEAMS IN BLOCKING, 26") GRATE, CUT ALL PENETRATION LOCATION SEAMS TO COVER BLOCK IN BLOCKING MATERIAL MEMBRANE
2. MATERIALS TO BE SELECTED BASED ON SYSTEM SPECIFICATIONS. MATERIALS SHOWN ARE APPROVED FOR THE ITEMS LISTED.
3. MATERIALS ARE NOT ACCEPTABLE. CONSIDER MATERIALS TO BE INCLUDED/EXCLUDED/PROCESSED LAST COST.
4. PROVIDE COATED METAL AS REQUIRED.
SLIP FLASHING AT EXIST GUTTER DETAIL
PRIOR TO NEW MEMBRANE INSTALLATION.

NOTES:
1. FLASH PROTECTION AT EXIST GUTTER DETAIL PER MANUFACTURER STANDARD DETAILS.
2. WALL VENTILATIONS DETAIL AS REQUIRED, ATTACH TO EXIST WALL SECTION.
3. FASTEN METAL EDGE TO COVER EXIST REVEAL LINE BY 1/2" MIN.
4. #9x2" STAINLESS STEEL FASTENERS, FULLY DRIVE COVER STRIP TO EXIST WALL cleat.
5. REF SPEC FOR FINISH, SIZE TO EXTEND 1" MIN.
6. PREFABRICATED CLIP-ON EDGE W/ COVER, ATTACH 12" OC.
7. NON-CURING SEALANT STRIP-IN PER MFR REQ, AS REQD

METAL EDGE AT SKYLIGHT DETAIL - BASE BID / ALTERNATE 3

NOTE:
EXIST GUTTER & METAL FLASHING TO EXIST ROOF SYSTEM

EXIST DECK & STRUCTURE TO REMAIN

EXIST ENCLOSURE

MEMBRANE, EXTEND UP

CREATE BRICK STRUCTURE TO REMAIN

MEMBRANE, EXTEND UP

EXIST ENCLOSURE

MEMBRANE, EXTEND UP

CREATE BRICK STRUCTURE TO REMAIN

MEMBRANE, EXTEND UP

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1. ALL WEEPS TO REMAIN OPEN AND FREE.

ALT 1: GUTTER AND DOWNSPOUT COLOR TO BE SELECTED BY ARCHITECT FROM MFR'S STANDARD FINISH TO MATCH DOWNSPOUT SIZE AND STYLE OF GUTTERS VARIES FROM BUILDING TO BUILDING. IF ALT 1 ACCEPTED, SHEET NUMBER:

NOTE:

PERIMETER ATTACHMENT PER MFR REC

NOTE:

NEW ALUMINUM THRESHOLD, SET IN MEMBRANE AND HEAT WELD TO BASE FLASHING.

NOTE:

NEW 1/2" GYPSUM COVERBOARD W/ COATED GLASS FACER, MECHANICALLY FASTENED TO NEW 1/2" GYPSUM COVERBOARD UP TO EXIST WALL.

NOTE:

NEW ALUMINUM THRESHOLD, SET IN MEMBRANE AND HEAT WELD TO BASE FLASHING.

NOTE:

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NOTE:

NEW ALUMINUM THRESHOLD, SET IN MEMBRANE AND HEAT WELD TO BASE FLASHING.

NOTE:

EXIST WALL GLASS FACER, MECHANICALLY FASTENED TO NEW 1/2" GYPSUM COVERBOARD UP TO EXIST WALL.

NOTE:

EXIST 1/2" GYPSUM COVERBOARD W/ COATED GLASS FACER, MECHANICALLY FASTENED TO NEW 1/2" GYPSUM COVERBOARD UP TO EXIST WALL.

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