

ROOF REPLACEMENT HILLSBORO TREATMENT CENTER HILLSBORO, MO



66 Progress Parkway › St. Louis, Missouri 63043
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OWNER: STATE OF MISSOURI
MICHAEL L. PARSON, GOVERNOR

DEPARTMENT OF SOCIAL SERVICES
DIVISION OF YOUT SERVICES

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

PROJECT NUMBER: H1912-01

SITE NUMBER: 5712

FACILITY NUMBERS:
CORE BUILDING 60231
COTTAGE A 60232
COTTAGE B/C 60233

DESIGNER: KUHLMANN DESIGN GROUP, INC.
MISSOURI ARCHITECTURAL CORPORATION
CERTIFICATE LIC. NO.: 000216
MISSOURI PROFESSIONAL ENGINEERING CORPORATION
CERTIFICATE LIC. NO.: 000255

BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL EXISTING BUILDING CODE

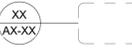
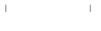


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SHEET 1 OF 7
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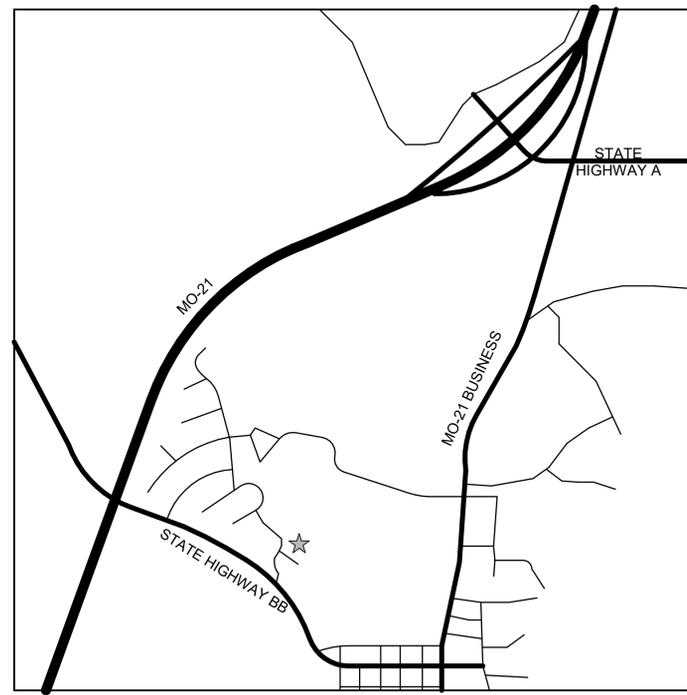
REFERENCE INDICATORS

-  NORTH ARROW
-  CEILING HEIGHT TAG
-  DOOR TAG
-  EXTERIOR ELEVATION MARK
-  INTERIOR ELEVATION MARK
-  3D VIEW REFERENCE MARK
-  PHOTO REFERENCE MARK
-  SECTION MARK
-  DETAIL CALL OUT
-  PARTITION TYPE TAG
-  WINDOW TAG
-  RESTROOM ACCESSORY TAG
-  KEYED NOTE
-  DEMOLITION KEYED NOTE
-  SPOT ELEVATION MARK
-  COLUMN GRID BUBBLE
-  DIMENSION
-  ROOM TAG
-  REVISION CLOUD
-  FINISH CALLOUT
-  1 HOUR RATED WALL
-  2 HOUR RATED WALL
-  3 HOUR RATED WALL
-  4 HOUR RATED WALL

MATERIAL INDICATORS

-  ALUMINUM
-  SAND, MORTAR, PLASTER
-  BATT INSULATION
-  SOIL
-  CONCRETE
-  STEEL
-  GRAVEL, CRUSHED ROCK
-  WOOD FINISH
-  GYPSUM BOARD
-  WOOD FRAMING INTERRUPTED MEMBER (SHIM)
-  RIGID INSULATION
-  WOOD FRAMING THROUGH MEMBER

PROJECT SHEET INDEX		07/19/2019 - CONSTRUCTION DOCUMENT SUBMITTAL
SHEET #	SHEET NAME	
GENERAL		
G0-00	COVER	•
G0-01	SHEET INDEX & SYMBOLS	•
G0-02	CONSTRUCTION ACCESS PLAN	•
ARCHITECTURAL		
A1-01	ROOF PLAN - DEMO & NEW - CORE BUILDING	•
A1-02	ROOF PLAN - DEMO & NEW - COTTAGE A & COTTAGE B/C	•
A5-01	DETAILS - SINGLE-PLY ROOF MEMBRANE SYSTEM	•
A5-02	DETAILS - SHINGLE	•



PROJECT LOCATOR MAP



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ROOF REPLACEMENT

HILLSBORO TREATMENT CENTER

10434 STATE HIGHWAY BB
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FACILITY NUMBERS: 60231
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SHEET INDEX & SYMBOLS

G0-01

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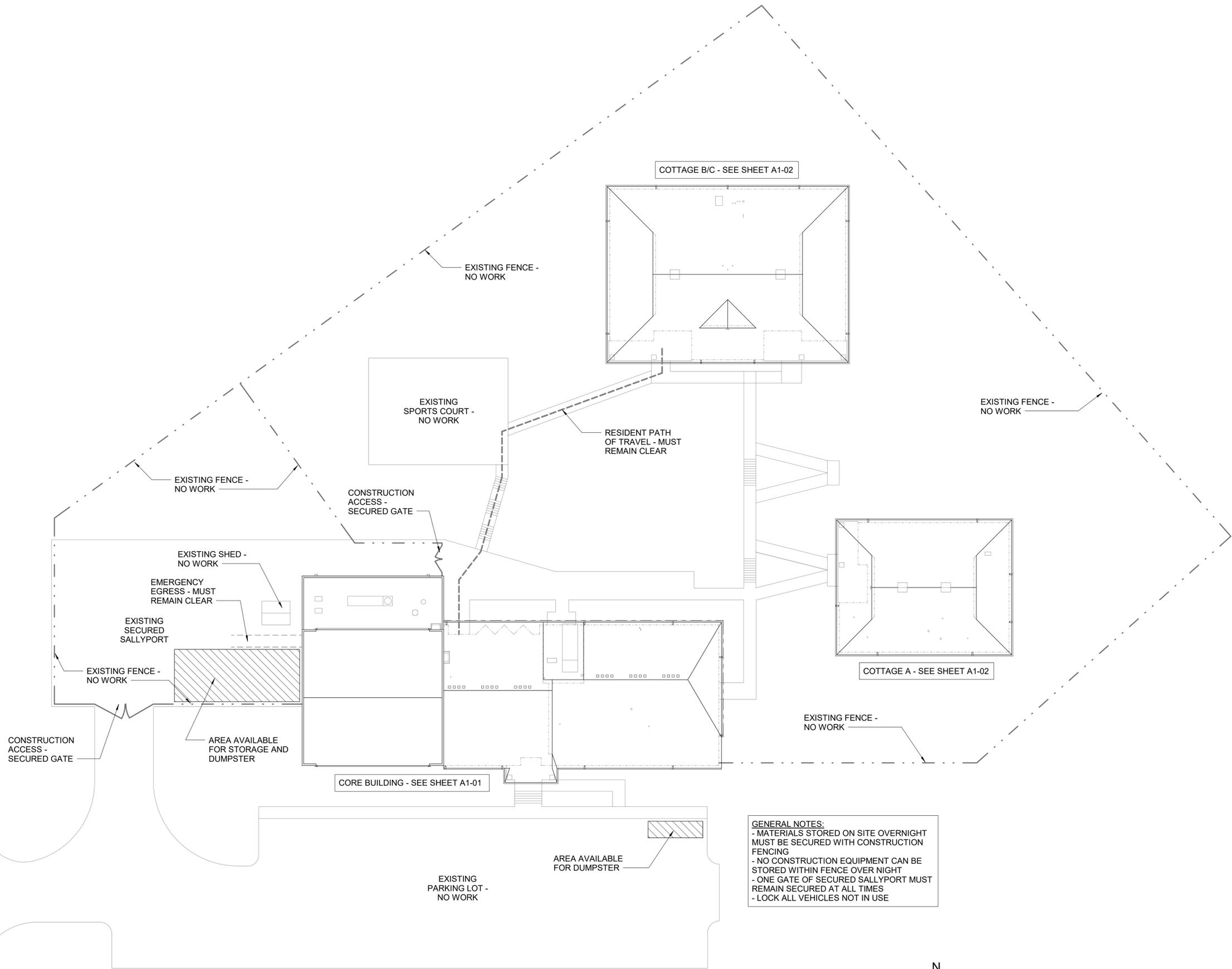
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CONSTRUCTION ACCESS
PLAN

G0-02

SHEET 3 OF 7
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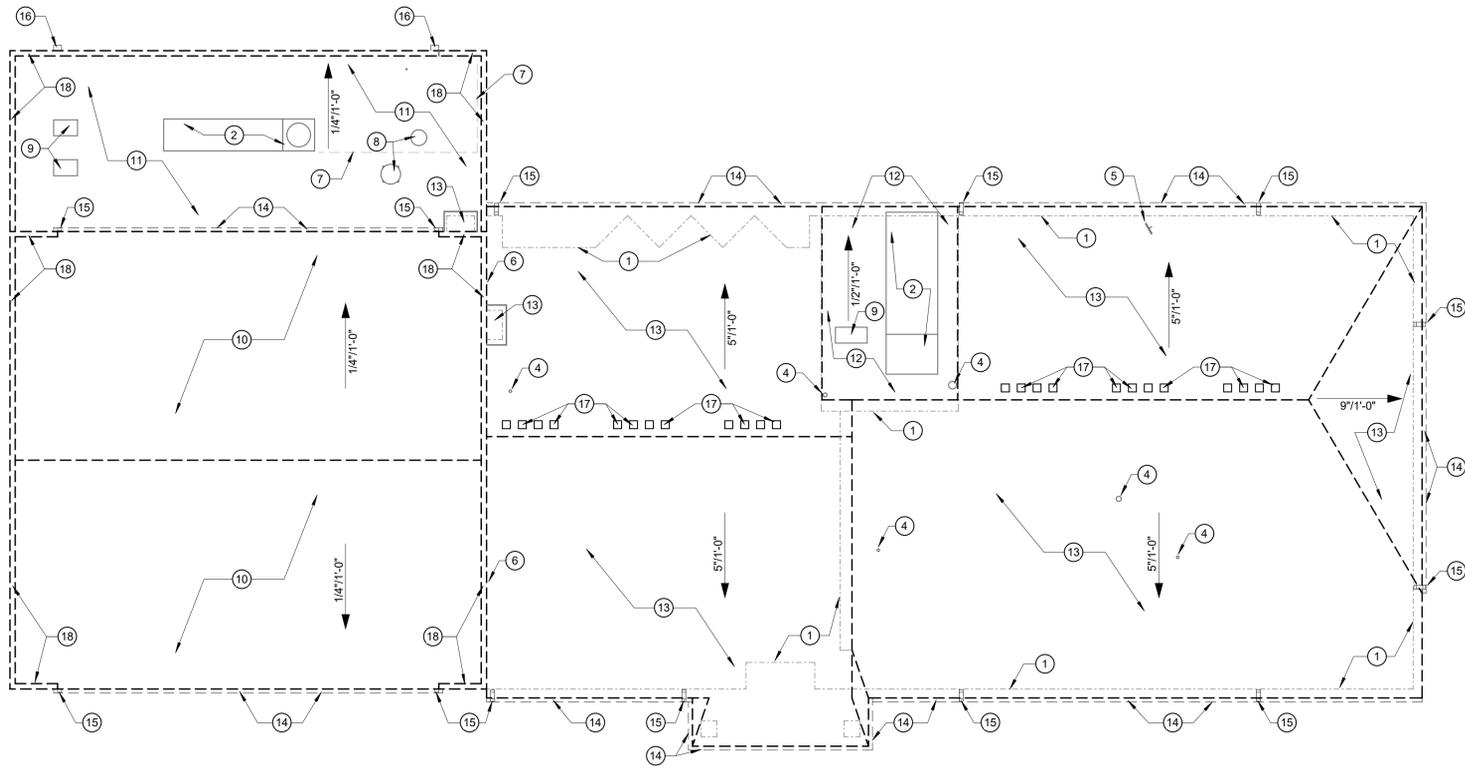
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GENERAL NOTES:
- MATERIALS STORED ON SITE OVERNIGHT MUST BE SECURED WITH CONSTRUCTION FENCING
- NO CONSTRUCTION EQUIPMENT CAN BE STORED WITHIN FENCE OVER NIGHT
- ONE GATE OF SECURED SALLYPORT MUST REMAIN SECURED AT ALL TIMES
- LOCK ALL VEHICLES NOT IN USE

1 CONSTRUCTION ACCESS PLAN
SCALE: 1" = 20'-0"

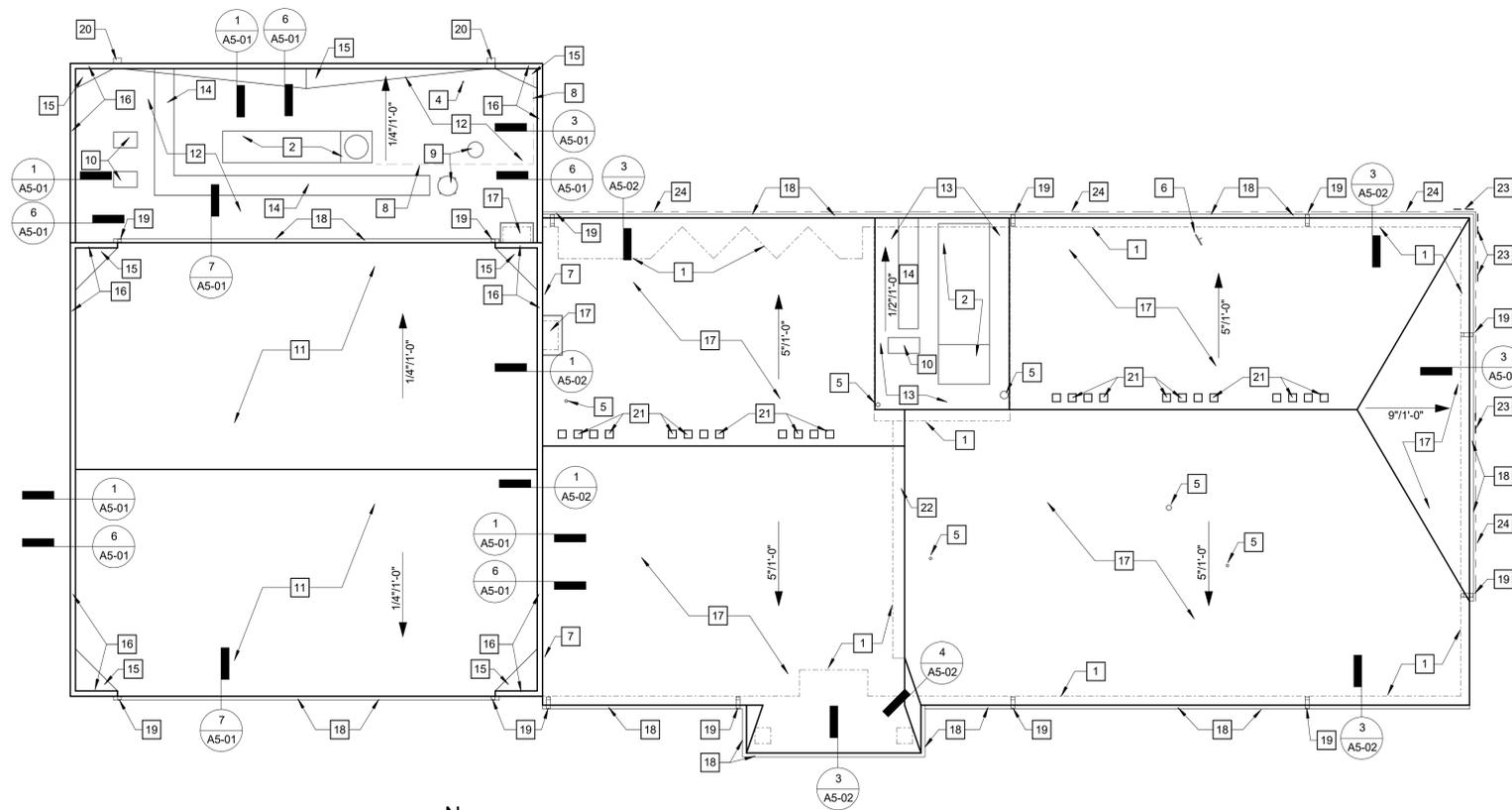




1 ROOF PLAN - DEMOLITION - CORE BUILDING
SCALE: 3/32" = 1'-0"

- SYMBOL # KEYED NOTES - ROOF PLAN - DEMOLITION**
- EXISTING WALL BELOW TO REMAIN
 - EXISTING MECHANICAL EQUIPMENT/HOOD TO REMAIN - PROTECT DURING CONSTRUCTION
 - EXISTING SKYLIGHT TO REMAIN - PROTECT DURING CONSTRUCTION
 - EXISTING ROOF PENETRATION TO REMAIN - PROTECT DURING CONSTRUCTION
 - EXISTING SATELLITE DISH TO REMAIN - PROTECT DURING CONSTRUCTION
 - EXISTING EXPANSION JOINT TO REMAIN - PROTECT DURING CONSTRUCTION
 - EXISTING CONDUIT TO REMAIN - PROTECT DURING CONSTRUCTION
 - REMOVE EXISTING EXHAUST FAN - RETAIN FOR REINSTALLATION
 - REMOVE EXISTING MECHANICAL EQUIPMENT - RETAIN FOR REINSTALLATION
 - REMOVE EXISTING BITUMEN ROOF, FIBER BOARD, AND BOARD INSULATION IN ITS ENTIRETY TO EXPOSE EXISTING PLYWOOD ROOF DECK
 - REMOVE EXISTING BITUMEN ROOF AND FIBER BOARD IN ITS ENTIRETY TO EXPOSE EXISTING PLYWOOD ROOF DECK
 - REMOVE EXISTING BITUMEN ROOF & PLYWOOD DECK IN ITS ENTIRETY - REMOVE EXISTING STEEL SUPPORT POSTS PREVIOUSLY CUT OFF ABOVE ROOF LEVEL & PITCH POCKETS IN THEIR ENTIRETY - PROTECT EXISTING BATT INSULATION FROM WEATHER
 - REMOVE EXISTING SHINGLE ROOF IN ITS ENTIRETY TO EXPOSE EXISTING PLYWOOD ROOF DECK
 - REMOVE EXISTING GUTTER IN ITS ENTIRETY
 - REMOVE EXISTING DOWNSPOUT IN ITS ENTIRETY
 - REMOVE EXISTING SCUPPER DOWNSPOUT IN ITS ENTIRETY
 - REMOVE EXISTING ROOF VENT
 - REMOVE EXISTING WALL CAP IN ITS ENTIRETY

- SYMBOL # KEYED NOTES - ROOF PLAN - NEW**
- EXISTING WALL BELOW
 - EXISTING MECHANICAL EQUIPMENT/HOOD TO REMAIN - INSTALL NEW FLASHING & SEALANTS
 - EXISTING SKYLIGHT TO REMAIN - PROTECT DURING CONSTRUCTION
 - EXISTING ROOF PENETRATION IN SINGLE PLY MEMBRANE - SEE DETAIL 13/A5-01
 - EXISTING ROOF PENETRATION - INSTALL NEW FLASHING & SEALANTS - SEE DETAIL 6/A5-02
 - EXISTING SATELLITE DISH TO REMAIN
 - EXISTING EXPANSION JOINT TO REMAIN
 - EXISTING CONDUIT TO REMAIN
 - REINSTALL EXISTING EXHAUST FAN - INSTALL NEW FLASHING & SEALANTS
 - REINSTALL EXISTING MECHANICAL EQUIPMENT - INSTALL NEW FLASHING & SEALANTS - INSTALL ON WOOD SLEEPERS SEE DETAIL 16/A5-01
 - INSTALL SINGLE-PLY MEMBRANE ROOF, COVER BOARD, AND RIGID INSULATION
 - INSTALL SINGLE-PLY MEMBRANE ROOF AND COVER BOARD - EXISTING BATT INSULATION IN TRUSS SPACE TO REMAIN
 - INSTALL SINGLY-PLY MEMBRANE ROOF, COVER BOARD, AND 1" PLYWOOD DECK - EXISTING BATT INSULATION IN TRUSS SPACE TO REMAIN
 - ROOF WALKWAY PADS - SEE SPECIFICATIONS
 - TAPERED INSULATION CRICKET
 - INSTALL ROOF EDGING & FASCIA - SEE DETAIL 6/A5-01
 - INSTALL SHINGLE ROOF - SEE SPECIFICATIONS
 - INSTALL GUTTER & GUTTER GUARD - SEE SPECIFICATIONS
 - INSTALL DOWNSPOUT - SEE SPECIFICATIONS
 - INSTALL SCUPPER & DOWNSPOUT - SEE DETAIL 11/A5-01 - SEE SPECIFICATIONS
 - INSTALL SQUARE TOP ROOF LOUVER - SEE SPECIFICATIONS
 - WRAP UNDERSIDE OF EAVE WITH ALUMINUM FLASHING - COLOR TO MATCH EXISTING FLASHING
 - PATCH EXISTING EIFS FASCIA - APPROXIMATELY 2 SF EACH LOCATION
 - RECOAT EXISTING EIFS FASCIA - COLOR TO MATCH EXISTING



2 ROOF PLAN - NEW - CORE BUILDING
SCALE: 3/32" = 1'-0"

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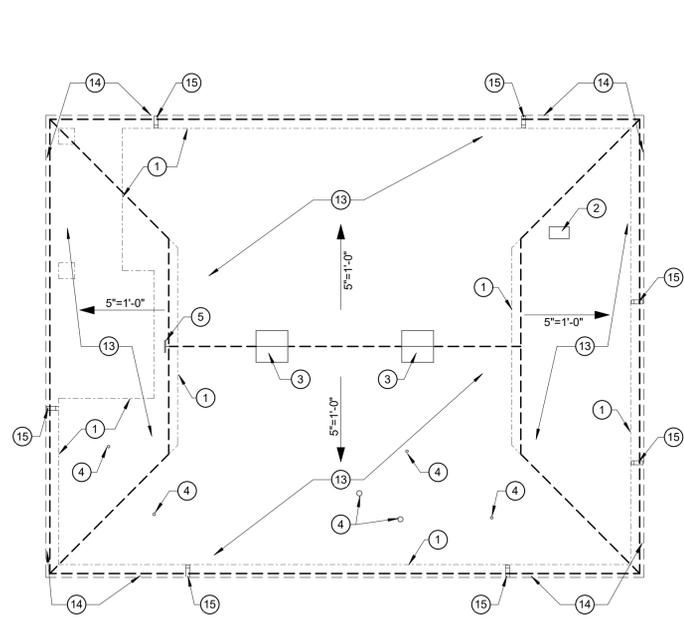
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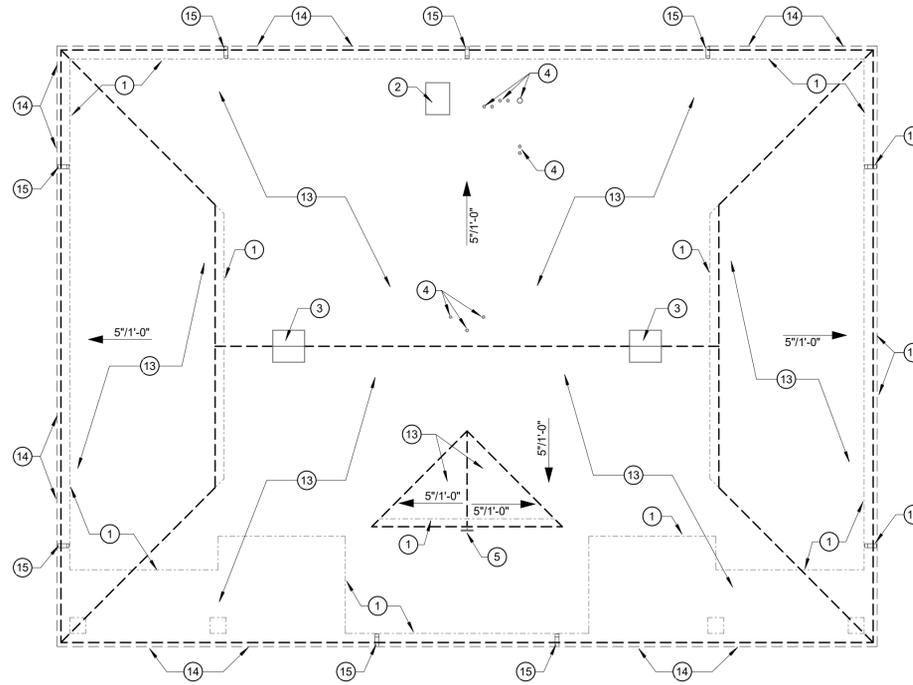
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ROOF PLAN - DEMO & NEW
- CORE BUILDING

A1-01
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1 ROOF PLAN - DEMOLITION - COTTAGE A
SCALE: 3/32" = 1'-0"



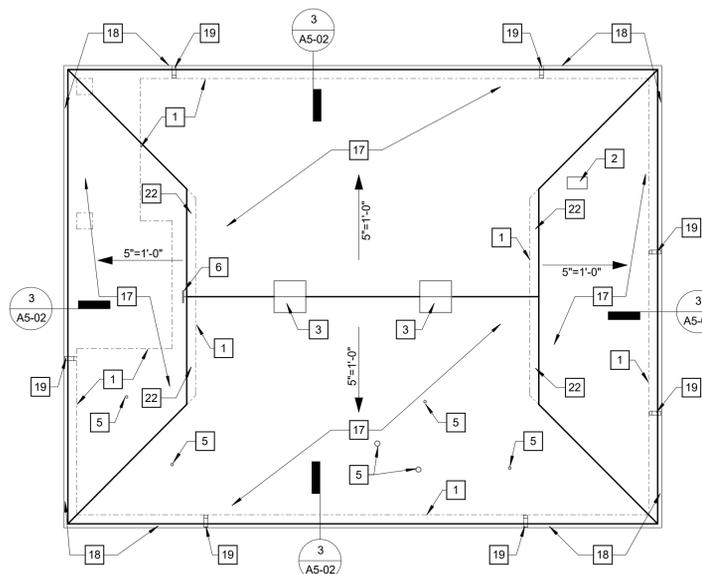
2 ROOF PLAN - DEMOLITION - COTTAGE B/C
SCALE: 3/32" = 1'-0"

SYMBOL # KEYED NOTES - ROOF PLAN - DEMOLITION

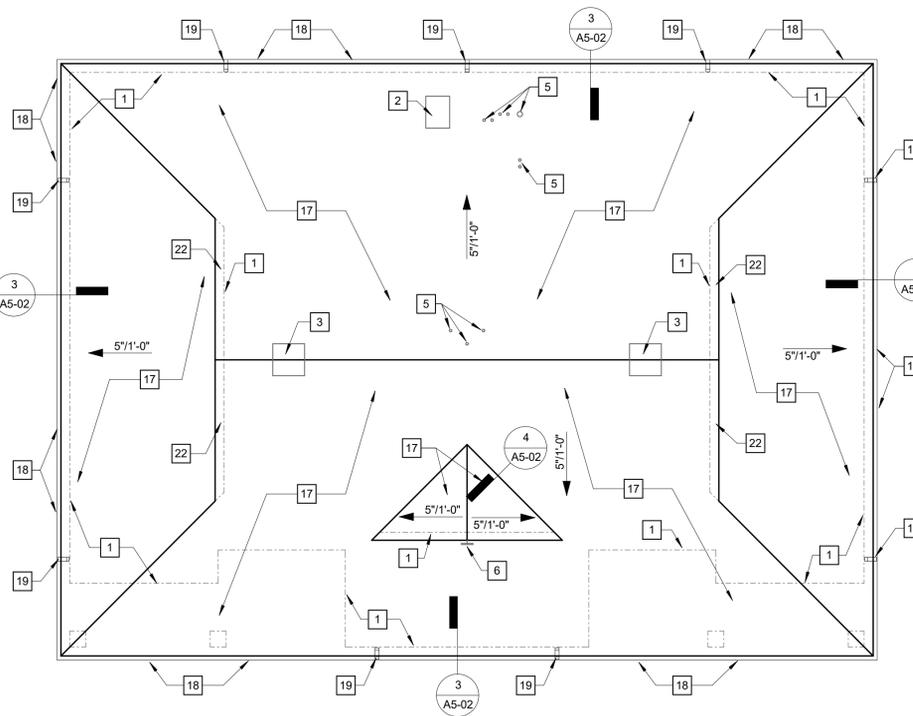
- 1 EXISTING WALL BELOW TO REMAIN
- 2 EXISTING MECHANICAL EQUIPMENT/HOOD TO REMAIN - PROTECT DURING CONSTRUCTION
- 3 EXISTING SKYLIGHT TO REMAIN - PROTECT DURING CONSTRUCTION
- 4 EXISTING ROOF PENETRATION TO REMAIN - PROTECT DURING CONSTRUCTION
- 5 EXISTING SATELLITE DISH TO REMAIN - PROTECT DURING CONSTRUCTION
- 6 EXISTING EXPANSION JOINT TO REMAIN - PROTECT DURING CONSTRUCTION
- 7 EXISTING CONDUIT TO REMAIN - PROTECT DURING CONSTRUCTION
- 8 REMOVE EXISTING EXHAUST FAN - RETAIN FOR REINSTALLATION
- 9 REMOVE EXISTING MECHANICAL EQUIPMENT - RETAIN FOR REINSTALLATION
- 10 REMOVE EXISTING BITUMEN ROOF, FIBER BOARD, AND BOARD INSULATION IN ITS ENTIRETY TO EXPOSE EXISTING PLYWOOD ROOF DECK
- 11 REMOVE EXISTING BITUMEN ROOF AND FIBER BOARD IN ITS ENTIRETY TO EXPOSE EXISTING PLYWOOD ROOF DECK
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- 13 REMOVE EXISTING SHINGLE ROOF IN ITS ENTIRETY TO EXPOSE EXISTING PLYWOOD ROOF DECK
- 14 REMOVE EXISTING GUTTER IN ITS ENTIRETY
- 15 REMOVE EXISTING DOWNSPOUT IN ITS ENTIRETY
- 16 REMOVE EXISTING SCUPPER DOWNSPOUT IN ITS ENTIRETY
- 17 REMOVE EXISTING ROOF VENT
- 18 REMOVE EXISTING WALL CAP IN ITS ENTIRETY

SYMBOL # KEYED NOTES - ROOF PLAN - NEW

- 1 EXISTING WALL BELOW
- 2 EXISTING MECHANICAL EQUIPMENT/HOOD TO REMAIN - INSTALL NEW FLASHING & SEALANTS
- 3 EXISTING SKYLIGHT TO REMAIN - PROTECT DURING CONSTRUCTION
- 4 EXISTING ROOF PENETRATION IN SINGLE PLY MEMBRANE - SEE DETAIL 13/A5-01
- 5 EXISTING ROOF PENETRATION - INSTALL NEW FLASHING & SEALANTS - SEE DETAIL 6/A5-02
- 6 EXISTING SATELLITE DISH TO REMAIN
- 7 EXISTING EXPANSION JOINT TO REMAIN
- 8 EXISTING CONDUIT TO REMAIN
- 9 REINSTALL EXISTING EXHAUST FAN - INSTALL NEW FLASHING & SEALANTS
- 10 REINSTALL EXISTING MECHANICAL EQUIPMENT - INSTALL NEW FLASHING & SEALANTS - INSTALL ON WOOD SLEEPERS SEE DETAIL 16/A5-01
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- 13 INSTALL SINGLE-PLY MEMBRANE ROOF, COVER BOARD, AND 1" PLYWOOD DECK - EXISTING BATT INSULATION IN TRUSS SPACE TO REMAIN
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- 18 INSTALL GUTTER & GUTTER GUARD - SEE SPECIFICATIONS
- 19 INSTALL DOWNSPOUT - SEE SPECIFICATIONS
- 20 INSTALL SCUPPER & DOWNSPOUT - SEE DETAIL 11/A5-01 - SEE SPECIFICATIONS
- 21 INSTALL SQUARE TOP ROOF LOUVER - SEE SPECIFICATIONS
- 22 WRAP UNDERSIDE OF EAVE WITH ALUMINUM FLASHING - COLOR TO MATCH EXISTING FLASHING
- 23 PATCH EXISTING EIFS FASCIA - APPROXIMATELY 2 SF EACH LOCATION
- 24 RECOAT EXISTING EIFS FASCIA - COLOR TO MATCH EXISTING



3 ROOF PLAN - NEW - COTTAGE A
SCALE: 3/32" = 1'-0"



4 ROOF PLAN - NEW - COTTAGE B/C
SCALE: 3/32" = 1'-0"

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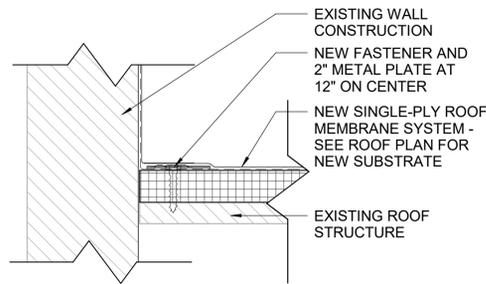
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ROOF PLAN - DEMO & NEW
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B/C

A1-02

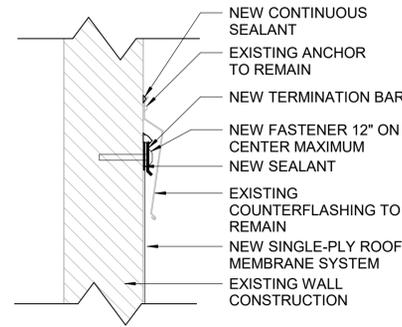
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- NOTES:
1. MAX 6" LONG FASTENERS (NOTE WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENTS)
 2. BONDING ADHESIVE REQUIRED BETWEEN SEAM AND INSULATION ON FULLY ADHERED SYSTEM

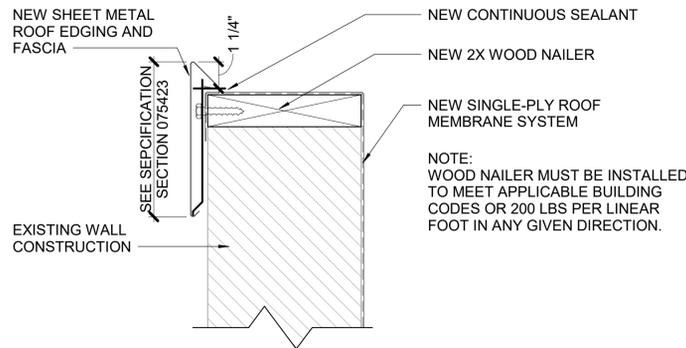
1. BASE TIE-IN TO DECK
SCALE: 3" = 1'-0"



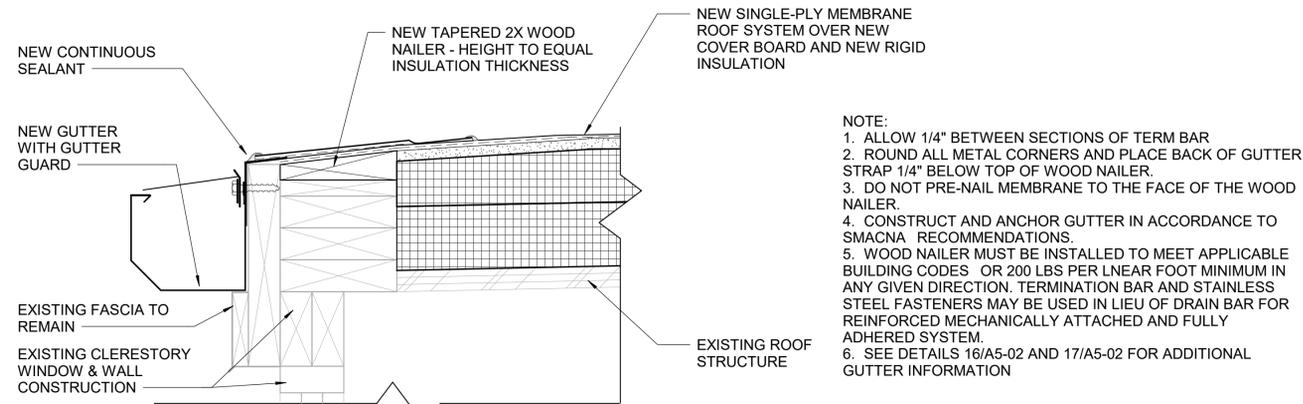
- NOTES:
1. INSTALL TERMINATION BAR WITH 1/4" GAP BETWEEN ADJOINING SECTIONS.
 2. TERMINATION BAR MUST BE CUT AT INSIDE AND OUTSIDE CORNER. DO NOT BEND AROUND CORNERS.
 3. TERMINATION BAR MUST BE FASTENED WITHIN 1" MAXIMUM OF ALL SECTIONS ENDS.
 4. INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION RECOMMENDATIONS.

MASONRY WALLS MUST BE WATERPROOFED IN ORDER FOR ANY SURFACE MOUNTED TERMINATION TO BE EFFECTIVE.

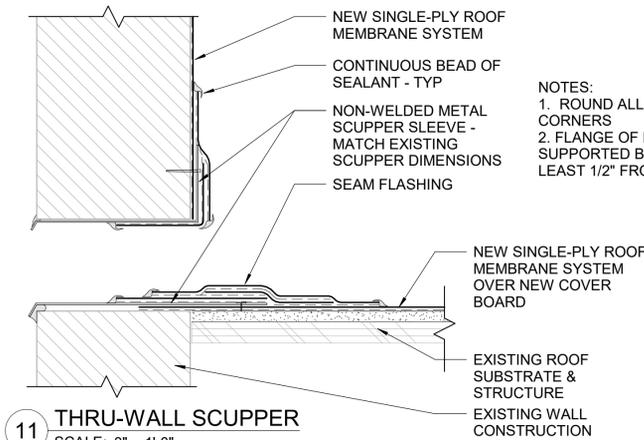
3. TERMINATION WITH EXISTING COUNTERFLASHING
SCALE: 3" = 1'-0"



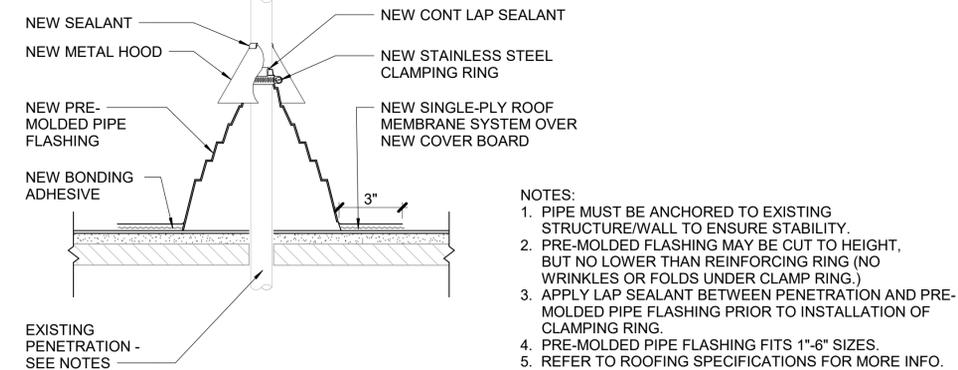
6. TERMINATION AT TOP OF WALL
SCALE: 3" = 1'-0"



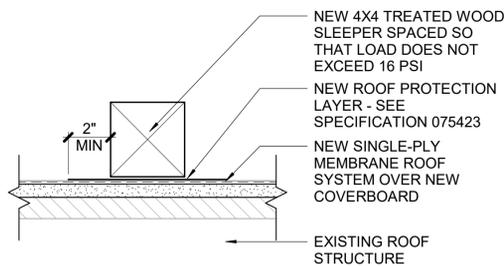
7. ROOF EDGE AT GUTTER
SCALE: 3" = 1'-0"



11. THRU-WALL SCUPPER
SCALE: 3" = 1'-0"



13. PRE-MOLDED PIPE BOOT
SCALE: 3" = 1'-0"



NOTE: DO NOT INSTALL SLEEPERS OVER BATTEN STRIPS, FASTENERS, METAL PLATES OR FIELD SEAMS.

16. WOOD SLEEPER
SCALE: 3" = 1'-0"

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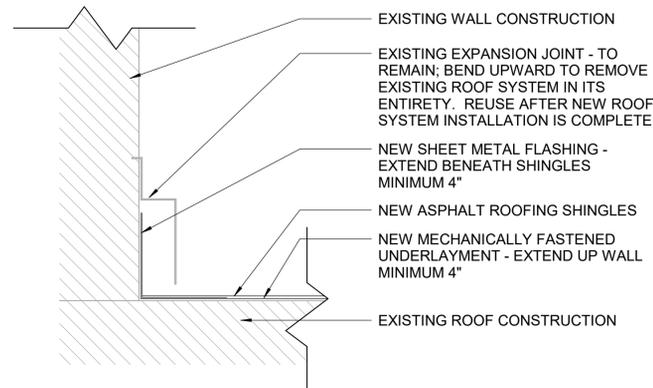
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CHECKED: MAB

DETAILS - SINGLE-PLY ROOF MEMBRANE SYSTEM

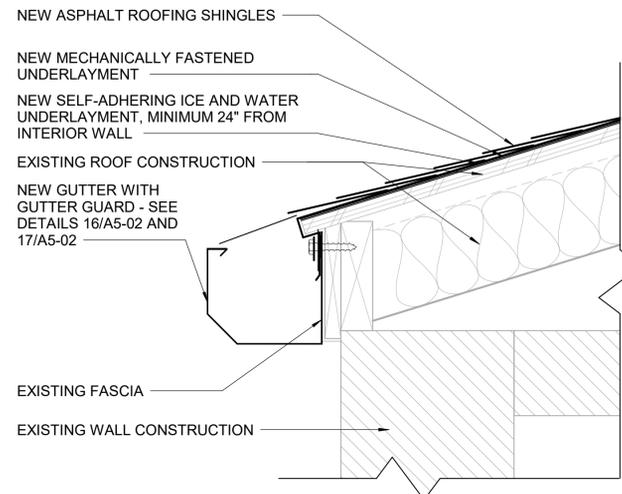
A5-01

SHEET 6 OF 7
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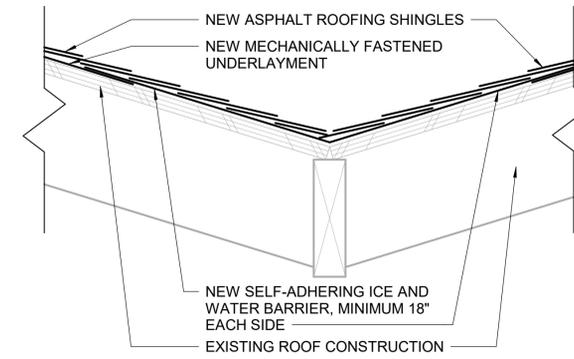
ISSUE DATE: 07/19/2019



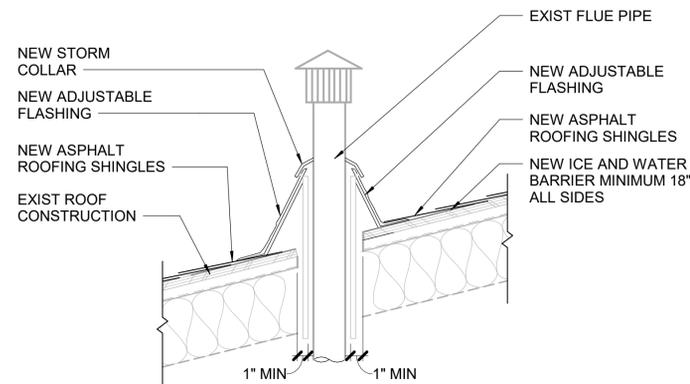
1 EXISTING EXPANSION JOINT AT EXISTING WALL
SCALE: 3" = 1'-0"



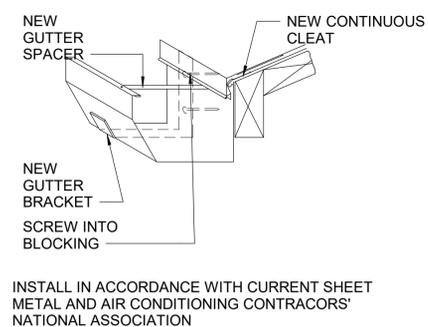
3 SHINGLE EDGE AT EAVE WITH GUTTER
SCALE: 3" = 1'-0"



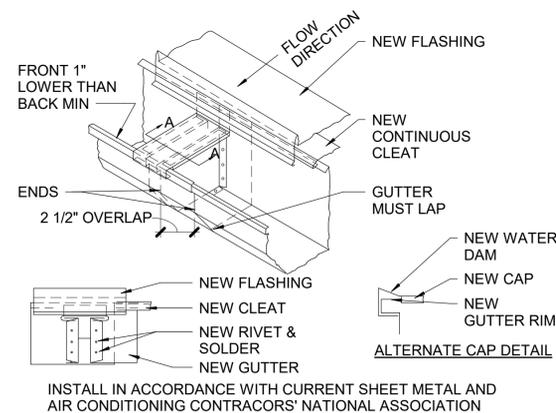
4 VALLEY FLASHING DETAIL
SCALE: 3" = 1'-0"



6 FLUE PENETRATION DETAIL
SCALE: 1 1/2" = 1'-0"



16 GUTTER HANGING DETAIL
SCALE: 1 1/2" = 1'-0"



17 GUTTER EXPANSION JOINT
SCALE: 1 1/2" = 1'-0"

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

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I hereby specify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey.



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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF SOCIAL SERVICES
DIVISION OF YOUTH SERVICES

ROOF REPLACEMENT
HILLSBORO TREATMENT CENTER
10434 STATE HIGHWAY BB
HILLSBORO, MO 63050

KdG Project Number: 190025-0001

PROJECT NUMBER: H1912-01
SITE NUMBER: 5712
FACILITY NUMBERS: 60231
60232
60233

CONSTRUCTION DOCUMENT SUBMITTAL

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

CAD DWG FILE: A5-02.DWG
DRAWN: PAW
CHECKED: MAB

DETAILS - SHINGLE

A5-02
SHEET 7 OF 7
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