

CLIO AREA SCHOOL DISTRICT HIGH SCHOOL ROOF ADJUSTMENT EDGERTON ELEMENTARY ROOF REPLACEMENT GARNER ELEMENTARY ROOF REPLACEMENT

CLIO, MICHIGAN

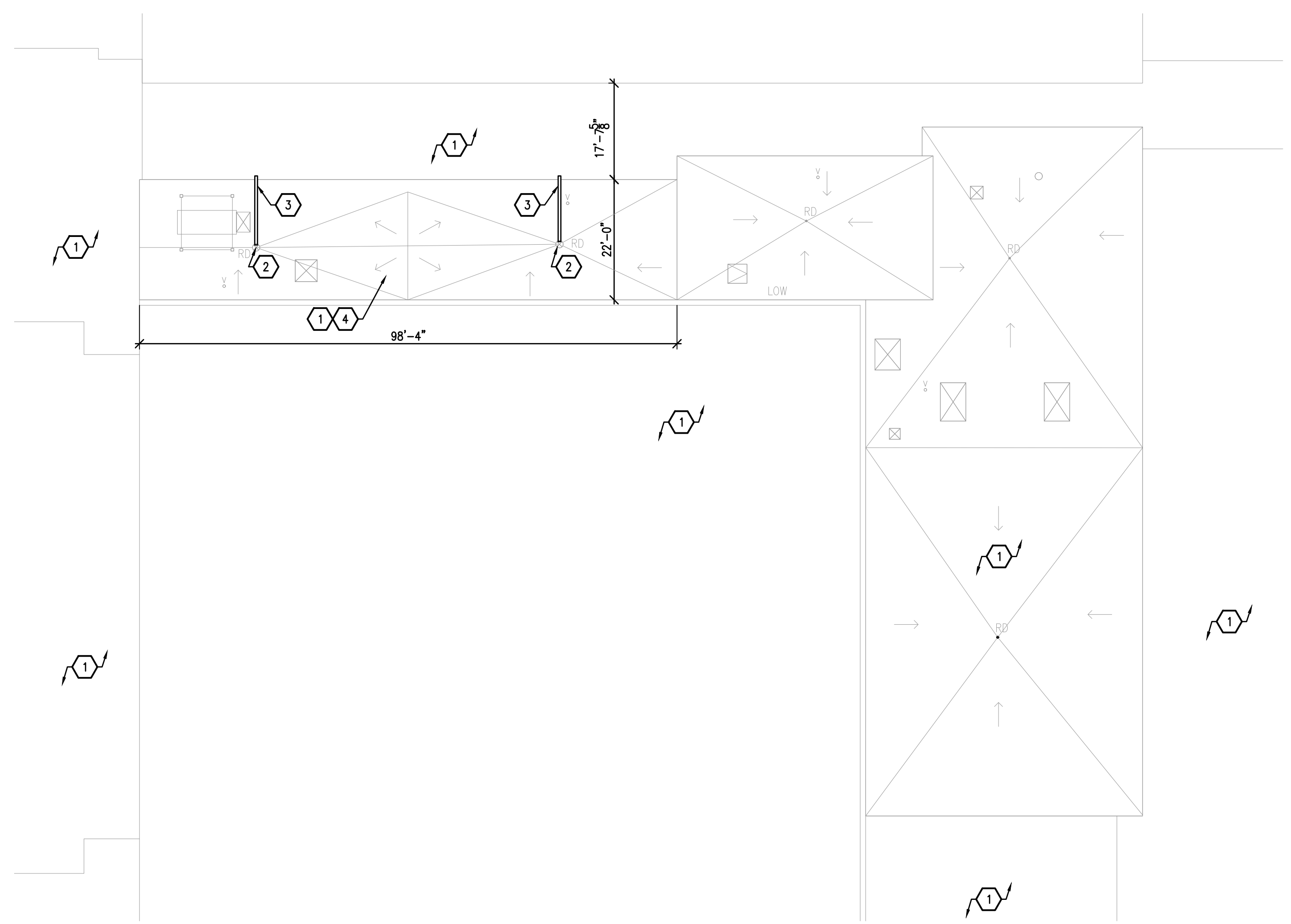
DRAWING INDEX

ARCHITECTURAL

- HA1.0 - HIGH SCHOOL ROOF ADJUSTMENT
- EA1.0 - EDGERTON ELEMENTARY ROOF REPLACEMENT
- GA1.0 - GARNER ELEMENTARY ROOF REPLACEMENT
- A2.0 - TYPICAL ROOF DETAILS

GENERAL NOTES

- DO NOT SCALE DRAWINGS; USE FIGURED DIMENSIONS ONLY. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
- FIELD VERIFY: ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH WORK.
- ENLARGED PLANS: WHERE ENLARGED OR PARTIAL PLANS ARE REFERENCED, DIMENSIONS, SPECIAL DETAILING, OR FINISH REQUIREMENTS ARE NOTED ON THE ENLARGED PLANS AND OMITTED ON THE SMALLER SCALE OR OVERALL PLANS.
- PARTITION STANDARD: IT IS INTENDED THAT THE FACE OF EVERY CONTINUOUS PARTITION BE FLUSH, WITHOUT OFFSETS, EVEN AT AN INTERMEDIATE CHANGE IN PARTITION THICKNESS. CHANGES IN PARTITION THICKNESS OCCUR ONLY AT INSIDE OR OUTSIDE CORNERS. THE FACES OF CORRIDOR WALLS MUST ALIGN WITHOUT OFFSETS (UNLESS GRAPHICALLY SHOWN OTHERWISE) ALONG THEIR ENTIRE LENGTH.
- INTERMEDIATE BREAKS OR INTERRUPTIONS. ALL ADJUSTMENTS DUE TO CHANGE IN PARTITION THICKNESS MUST OCCUR ON THE ADJOINING ROOM SIDE OF CORRIDOR PARTITIONS AT THE NEAREST INSIDE OR OUTSIDE CORNER.
- ALL ELECTRICAL PANELS, FIRE EXTINGUISHER CABINETS, ETC., LOCATED IN RELATED PARTITIONS SHALL BE BACKED WITH GYPSUM BOARD AS REQUIRED TO RETAIN PARTITION.
- WHEN CONTRADICTIONS OCCUR BETWEEN PLANS AND SPECIFICATIONS CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.



ROOF PLAN AREA 'A' N
SCALE: 1/16" = 1'-0"

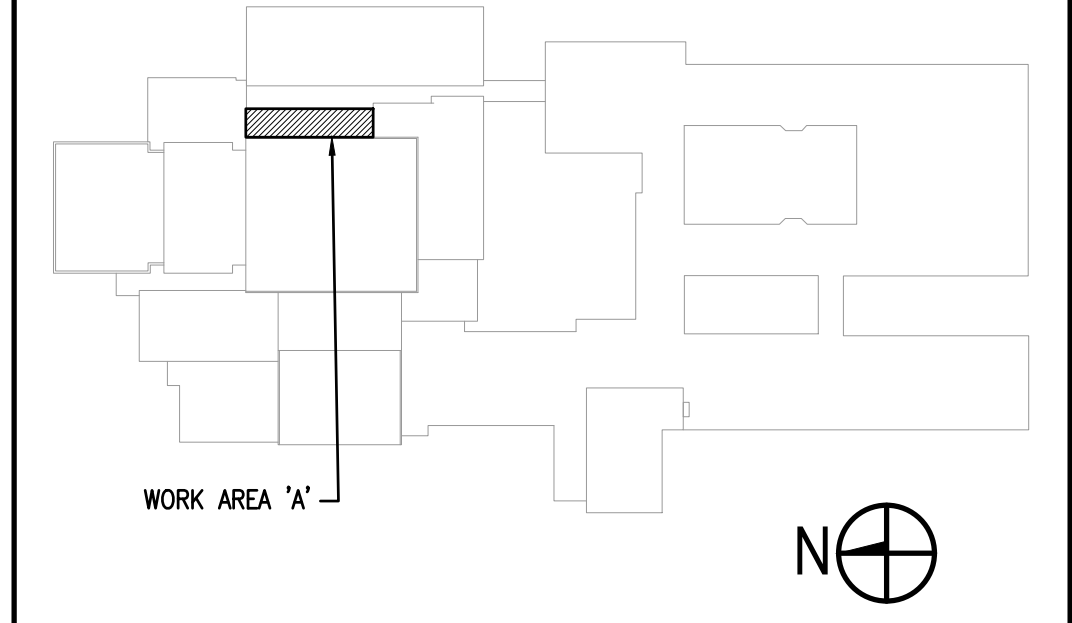
KEYNOTES

- EXISTING ROOFING TO REMAIN, NO WORK IN THIS AREA.
- EXISTING ROOF DRAIN TO REMAIN. REMOVE EXISTING STRAINER AND FLASHING AS REQUIRED FOR NEW DRAINAGE CHANNEL. CLEAN FOREIGN DEBRIS FROM DRAIN.
- REMOVE A 6" WIDE BY ~2"± DEEP PORTION OF EXISTING ROOF MATERIAL (MEMBRANE AND INSULATION) TO FORM A DRAINAGE CHANNEL FROM ADJACENT ROOF TO EXISTING ROOF DRAIN. TERMINATE AT ROOF DRAIN. PATCH AND REPAIR ROOF AFTER TRENCHING PER MANUFACTURERS STANDARD AND TO MAINTAIN EXISTING ROOF WARRANTY.
- LINES AND ARROWS SHOW CURRENT TAPERED INSULATION.

GENERAL NOTES

- FIELD VERIFY EXISTING CONDITIONS, INCLUDING EXISTING ROOF SLOPES AND ROOF DRAIN LOCATIONS.

KEY PLAN



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 BRIGHTON OFFICE: 1000 BRIGHTON AVENUE, SUITE 600, BRIGHTON, MI 48116, PHONE: (810)282-7071, FAX: (810)282-8791

ARCHITECTURE
ENGINEERING
CONSULTING

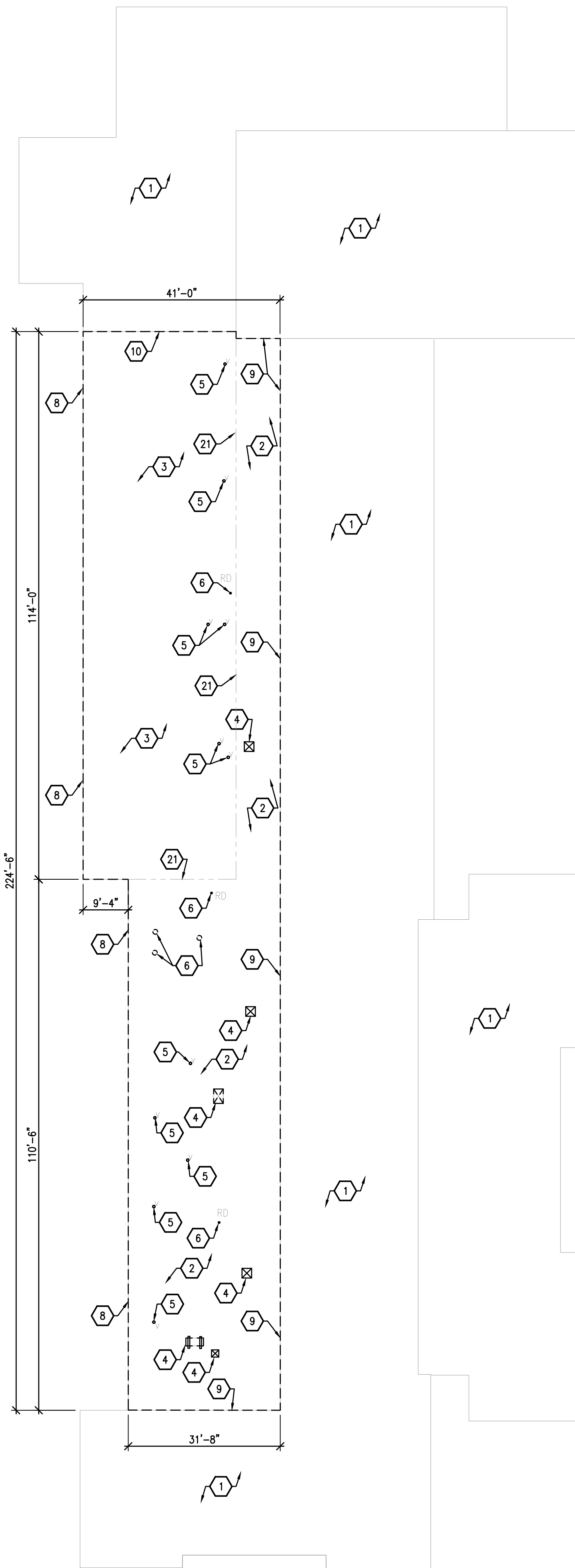
DI
 INTEGRATED DESIGNS INC.

CLIO AREA SCHOOLS
 2018 PROJECTS
 CLIO MICHIGAN
 PROJECT NO. 18-763

BY	DATE	NO. REVISIONS	DATE
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APPROVED			

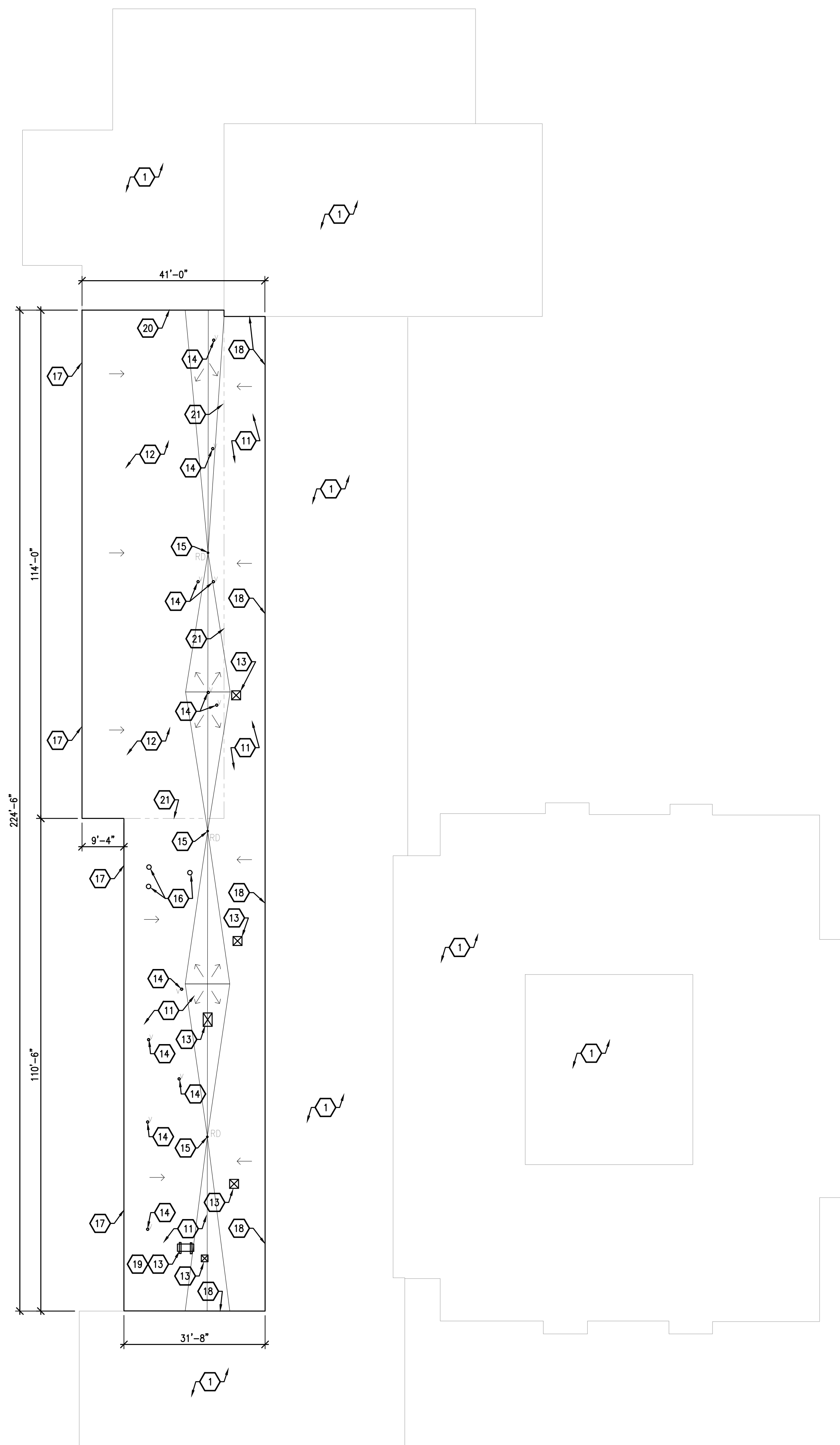
HIGH SCHOOL
 ROOF MODIFICATION PLAN
 AREA 'A'
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HA1.0



ROOF DEMOLITION PLAN

SCALE: 1/16" = 1'-0"



ROOF PLAN

SCALE: 1/16" = 1'-0"



KEYNOTES

1. EXISTING ROOFING TO REMAIN, NO WORK IN THIS AREA.
2. REMOVE EXISTING STONE BALLAST, MEMBRANE ROOFING, 2" ISO INSULATION, AND 1" FRESCO. EXISTING WOOD DECK TO REMAIN.
3. REMOVE EXISTING STONE BALLAST, MEMBRANE ROOFING, 2" ISO INSULATION, AND 1" FRESCO. EXISTING METAL ROOF DECK TO REMAIN.
4. DISCONNECT AND REMOVE MECHANICAL EQUIPMENT AS NECESSARY FOR REMOVAL AND REPLACEMENT OF ROOFING. SALVAGE EQUIPMENT FOR REINSTALLATION. EXISTING MECHANICAL CURB TO REMAIN, REMOVE ASSOCIATED FLASHING AND ROOFING ACCESSORIES. FIELD VERIFY EXACT LOCATION, QUANTITY, AND SIZE.
5. EXISTING PLUMBING VENT PENETRATION TO REMAIN. REMOVE ASSOCIATED FLASHING, BOOTS, AND ACCESSORIES. FIELD VERIFY EXACT LOCATION, QUANTITY, AND SIZE.
6. EXISTING ROOF DRAIN TO REMAIN. REMOVE EXISTING STRAINER. REMOVE ASSOCIATED FLASHING AND ACCESSORIES. CLEAN FOREIGN DEBRIS FROM DRAIN.
7. EXISTING FLUE THROUGH ROOF TO REMAIN. REMOVE EXISTING FLASHING/BOOT AND ALL ASSOCIATED ACCESSORIES.
8. REMOVE EXISTING METAL GRAVEL STOP AND DRIP. EXISTING WOOD PERIMETER NAILER TO REMAIN. EXISTING WOOD FASCIA TO REMAIN.
9. REMOVE EXISTING VERTICAL WALL FLASHING, AND TERMINATION BAR. REMOVE ASSOCIATED FASTENERS AND ACCESSORIES.
10. CUT EXISTING EPDM MEMBRANE AT EXISTING SEAM.
11. INSTALL MEMBRANE ROOFING ON TAPERED INSULATION ON 4" RIGID INSULATION BASE LAYER ON EXISTING WOOD ROOF DECK. INSTALL TAPERED INSULATION AS SHOWN TO PROVIDE POSITIVE DRAINAGE TO EXISTING ROOF DRAINS.
12. INSTALL MEMBRANE ROOFING ON TAPERED INSULATION ON 4" RIGID INSULATION BASE LAYER ON EXISTING METAL ROOF DECK. INSTALL TAPERED INSULATION AS SHOWN TO PROVIDE POSITIVE DRAINAGE TO EXISTING ROOF DRAINS.
13. REINSTALL EXISTING MECHANICAL EQUIPMENT ON EXISTING CURB. EXTEND CURB AS NEEDED TO ENSURE MINIMUM 1'-0" HEIGHT ABOVE NEW ROOFING. FLASH AND SEAL PER ROOFING MANUFACTURERS REQUIREMENTS. EXTEND ELECTRICAL CONDUITS AS NEEDED TO ACCOMMODATE NEW EQUIPMENT HEIGHT. REFER TO DETAIL 2/A2.0 SIM.
14. EXISTING PLUMBING VENT PENETRATION. CLEAN VENT PIPING OF FOREIGN DEBRIS. INSTALL NEW BOOT/FLASHING PER ROOFING MANUFACTURERS REQUIREMENTS. FIELD VERIFY EXACT SIZE AND LOCATION. REFER TO DETAIL 3/A2.0 SIM.
15. EXISTING ROOF DRAIN TO REMAIN. CLEAN FOREIGN DEBRIS FROM DRAIN. INSTALL NEW RE-ROOF DOME STRAINER. FLASH AND SEAL PER ROOFING MANUFACTURERS REQUIREMENTS. REFER TO DETAIL 1/A2.0 SIM.
16. EXISTING FLUE THROUGH ROOF. INSTALL FLASHING/BOOT PER ROOFING MANUFACTURERS REQUIREMENTS. FIELD VERIFY EXACT SIZE AND LOCATION.
17. INSTALL NEW 2x WOOD PERIMETER NAILERS AS NEEDED TO ACCOMMODATE NEW INSULATION HEIGHT. INSTALL PRE-FINISHED METAL 2 PIECE COMPRESSION FASCIA AT ROOF EDGE. FLASH AND SEAL PER ROOFING MANUFACTURERS REQUIREMENTS.
18. EXTEND MEMBRANE UP EXISTING MASONRY VERTICAL WALL MINIMUM 12". INSTALL TERMINATION BAR AND SEALANT PER ROOFING MANUFACTURERS REQUIREMENTS. REFER TO DETAIL 4/A2.0
19. PROVIDE NEW PRESSURE TREATED WOOD 4x4 SUPPORTS UNDER EXISTING MECHANICAL EQUIPMENT. FIELD VERIFY LENGTH NEEDED.
20. SPlice/WELD NEW MEMBRANE ROOFING INTO EXISTING MEMBRANE ROOFING PER ROOFING MANUFACTURERS REQUIREMENTS.
21. LINE INDICATES CHANGE OF ROOF DECK TYPE.

GENERAL NOTES

1. ALL DIMENSIONS INDICATED ARE PLUS OR MINUS, CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR VERIFICATION. FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING EXISTING EQUIPMENT, ROOF PENETRATION LOCATIONS, QUANTITIES, AND SIZES. INSTALLATION OF NEW MATERIALS IMPLIES CONTRACTORS ACCEPTANCE OF EXISTING SUBSTRATE BEING SUITABLE FOR THE INSTALLATION OF NEW MATERIALS.
2. CONTRACTOR SHALL REMOVE EXISTING FLASHINGS AT ALL EXISTING PIPE PENETRATIONS, MECHANICAL EQUIPMENT CURBS, MECHANICAL EQUIPMENT PENETRATIONS, ETC. CONTRACTOR TO VERIFY QUANTITY, TYPE, AND SIZE OF ALL ROOF PENETRATIONS. CONTRACTOR SHALL PROVIDE NEW FLASHING AND COUNTER FLASHING AT ALL EXISTING PIPE PENETRATIONS, MECHANICAL CURBS, MECHANICAL EQUIPMENT PENETRATIONS, ETC. PER MANUFACTURER'S WARRANTY REQUIREMENTS.
3. EXTEND EXISTING EQUIPMENT CURBS AS NECESSARY TO ACCOMMODATE NEW INSULATION THICKNESS. TOP OF CURB TO BE A MINIMUM OF 12" ABOVE TOP OF NEW INSULATION.
4. REMOVE EXISTING METAL ROOF FASCIA/DRIP-EDGE AROUND PERIMETER OF EXISTING ROOF AREA. INSTALL NEW PRE-FINISHED METAL FASCIA AT PERIMETER OF ROOF WHEN NEW ROOF SYSTEM IS INSTALLED. FASCIA TO EXTEND A MINIMUM OF 4" BELOW ROOF SYSTEM COMPONENTS AND/OR WOOD NAILERS.
5. DISCONNECT AND REMOVE ALL ROOFTOP EQUIPMENT AS NECESSARY TO ALLOW FOR COMPLETE REMOVAL OF EXISTING ROOFING SYSTEM. SALVAGE ALL EQUIPMENT FOR REINSTALLATION. REMOVE ALL ASSOCIATED FLASHING AND TERMINATION BARS. EQUIPMENT CURBS TO REMAIN UNLESS OTHERWISE NOTED. EXISTING BRANCH CIRCUITRY SERVING EQUIPMENT SHALL REMAIN AND BE REUSED. REINSTALL AND CONNECT PREVIOUSLY SALVAGED ROOFTOP EQUIPMENT AS NEEDED AFTER INSTALLATION OF NEW ROOF SYSTEM UNLESS OTHERWISE NOTED. EXTEND EXISTING BRANCH CIRCUITRY SERVING EQUIPMENT TO ACCOMMODATE NEW INSULATION THICKNESS. WHERE APPLICABLE CONNECT ALL CONTROL WIRING, POWER WIRING, AND TEST OPERATION. PROVIDE WEATHERPROOF JUNCTION BOXES, CONDUIT, WIRING, ETC. AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION. RELOCATE ANY STARTERS/DISCONNECT SWITCHES AS REQUIRED.
6. PROVIDE MANUFACTURER'S STANDARD ROOF TERMINATION WHERE REQUIRED. ALL TERMINATIONS TO COMPLY WITH MANUFACTURER'S RECOMMENDATIONS.
7. TAPERED INSULATION TO SLOPE AT 1/8" PER FOOT. MINIMUM.

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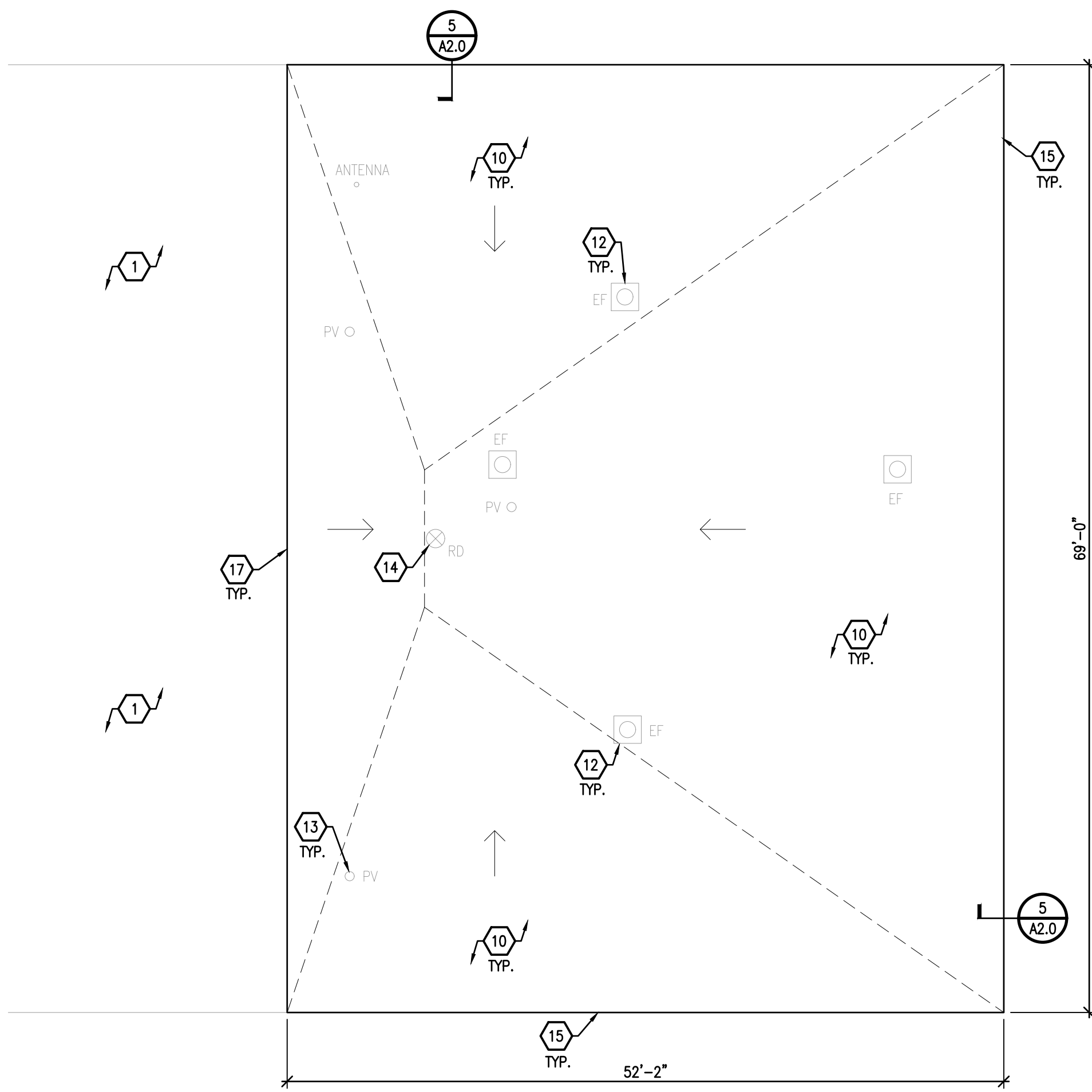
CLIO AREA SCHOOLS
 2018 PROJECTS
 CLIO MICHIGAN
 PROJECT NO. 18-763

NO.	REVISIONS	DATE
0	ISSUED FOR BIDDING	4.10.18

BY	DATE	DESIGN	DRAWN	CHECKED	APPROVED

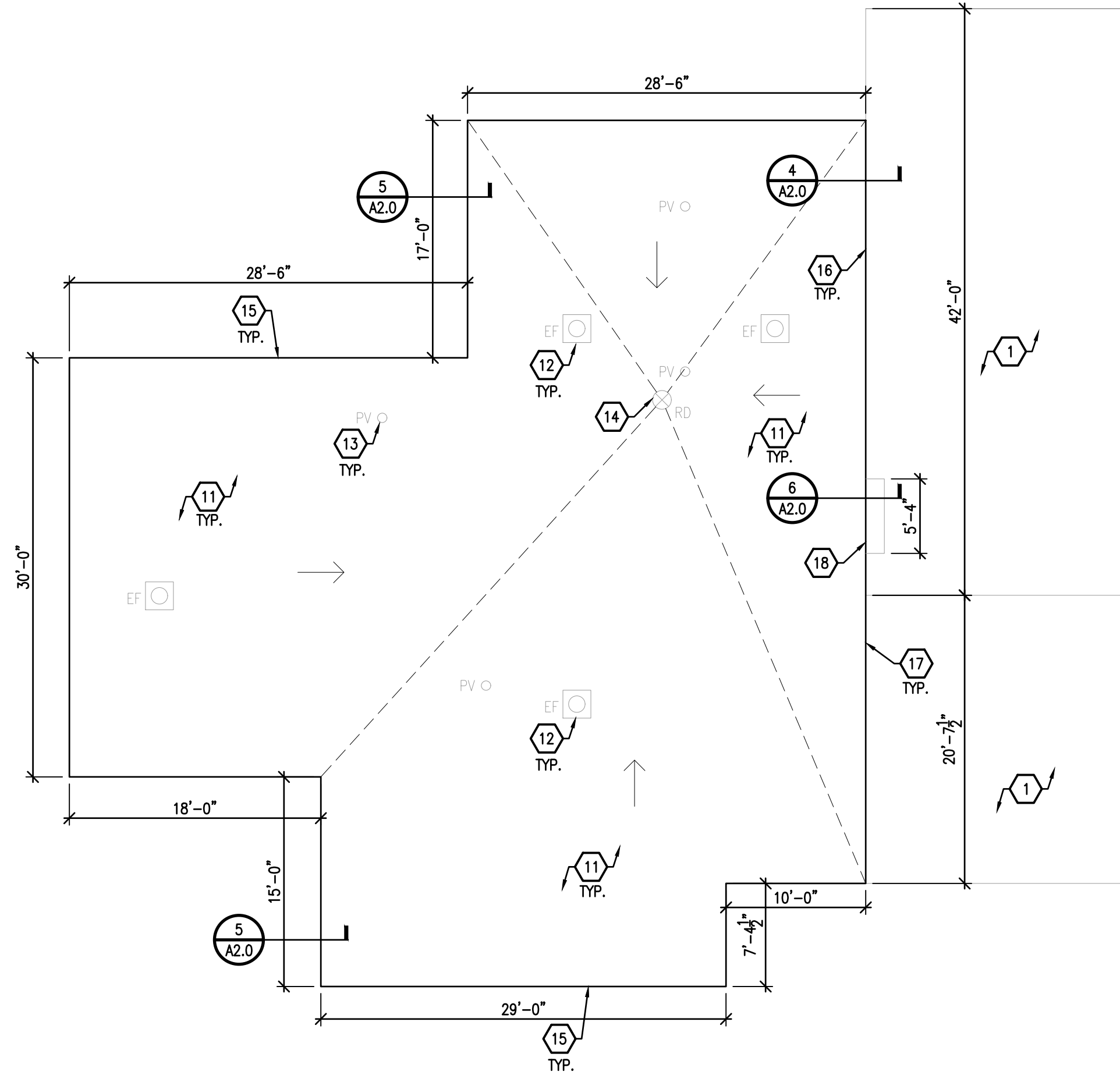
EDGERTON ELEMENTARY
 ROOF DEMOLITION
 & ROOF PLAN
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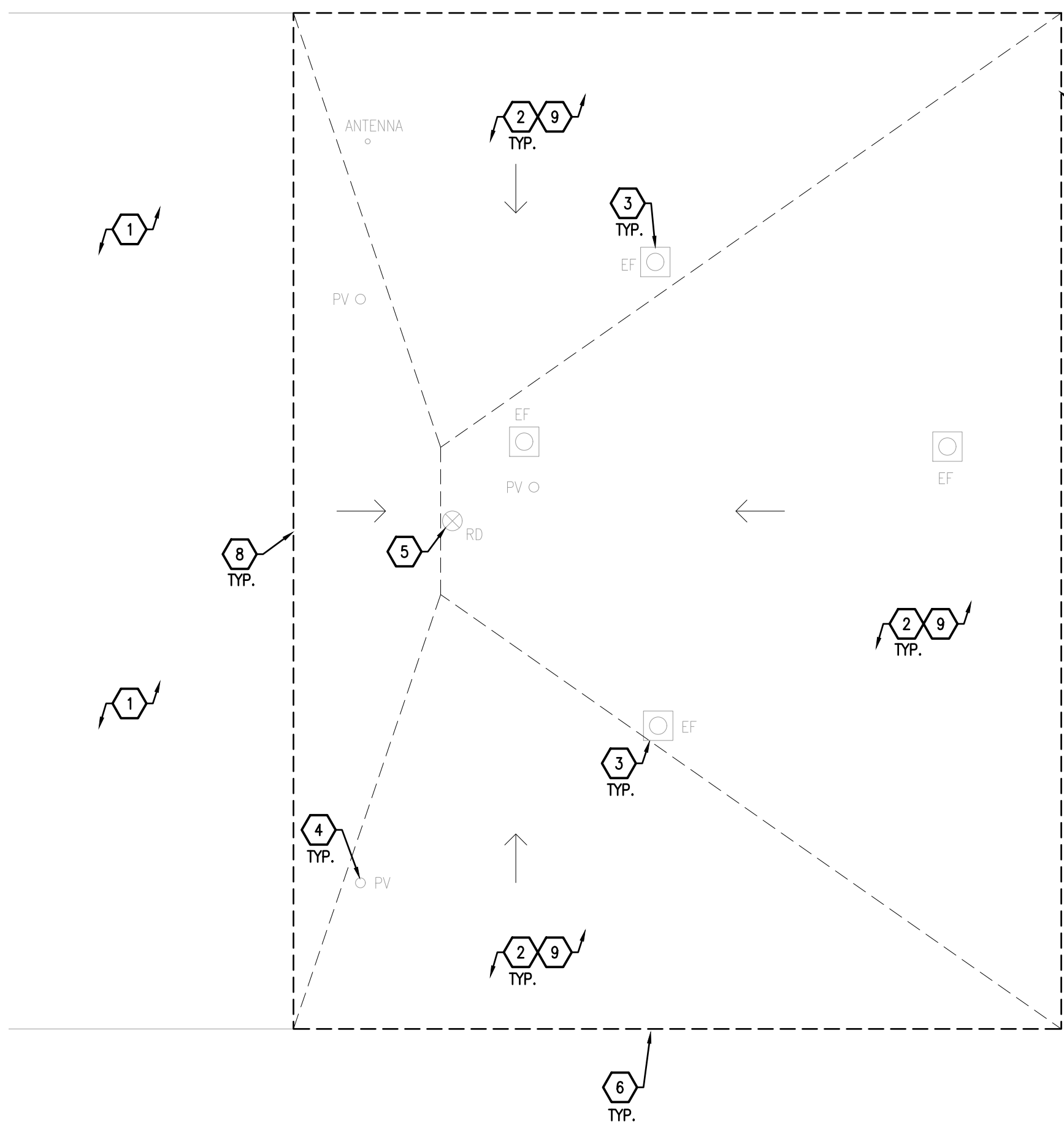
ROOF PLAN AREA 'A'

SCALE: 1/8" = 1'-0"



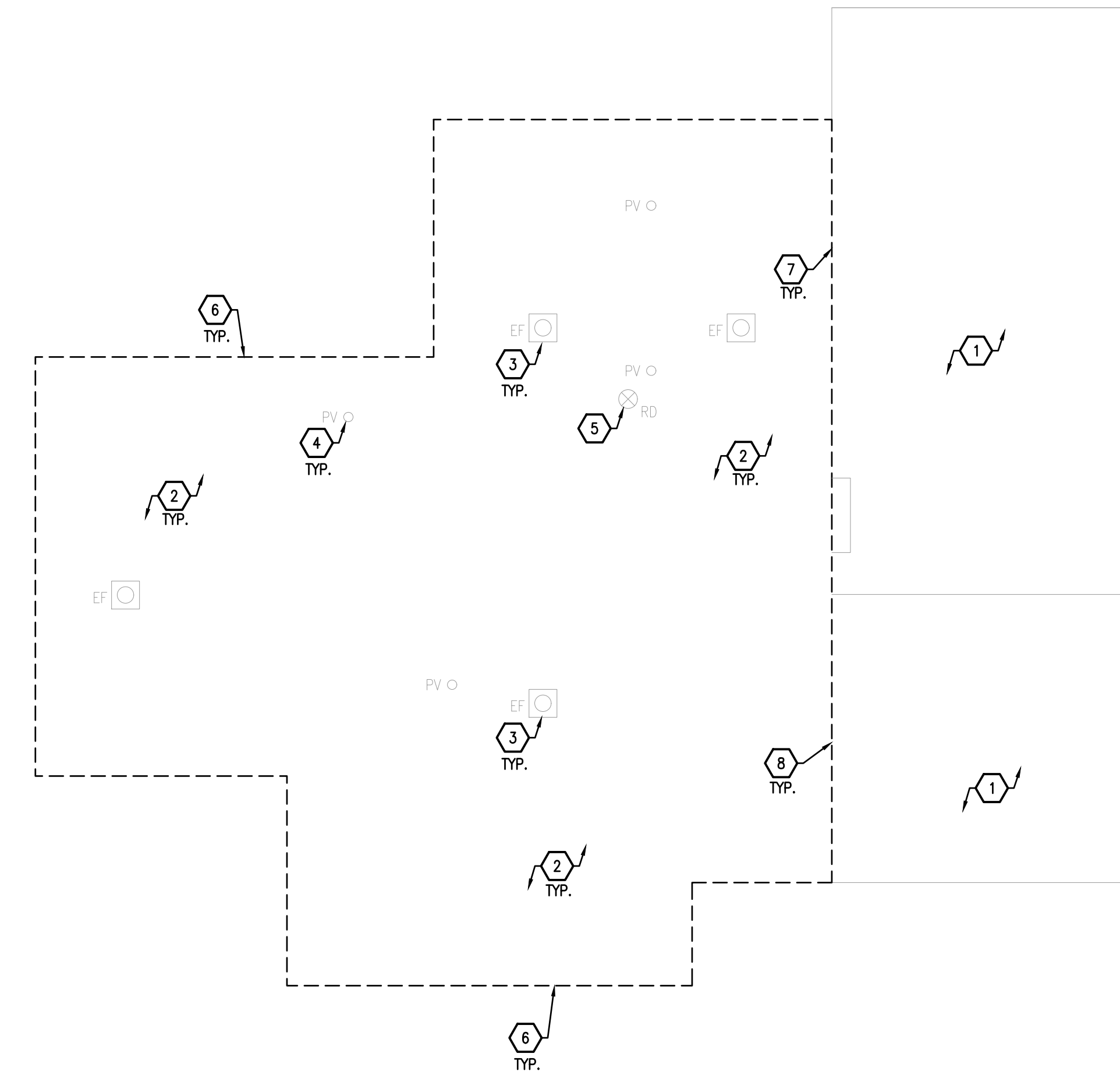
ROOF PLAN AREA 'B'

SCALE: 1/8" = 1'-0"



ROOF DEMOLITION PLAN AREA 'A'

SCALE: 1/8" = 1'-0"



ROOF DEMOLITION PLAN AREA 'B'

SCALE: 1/8" = 1'-0"



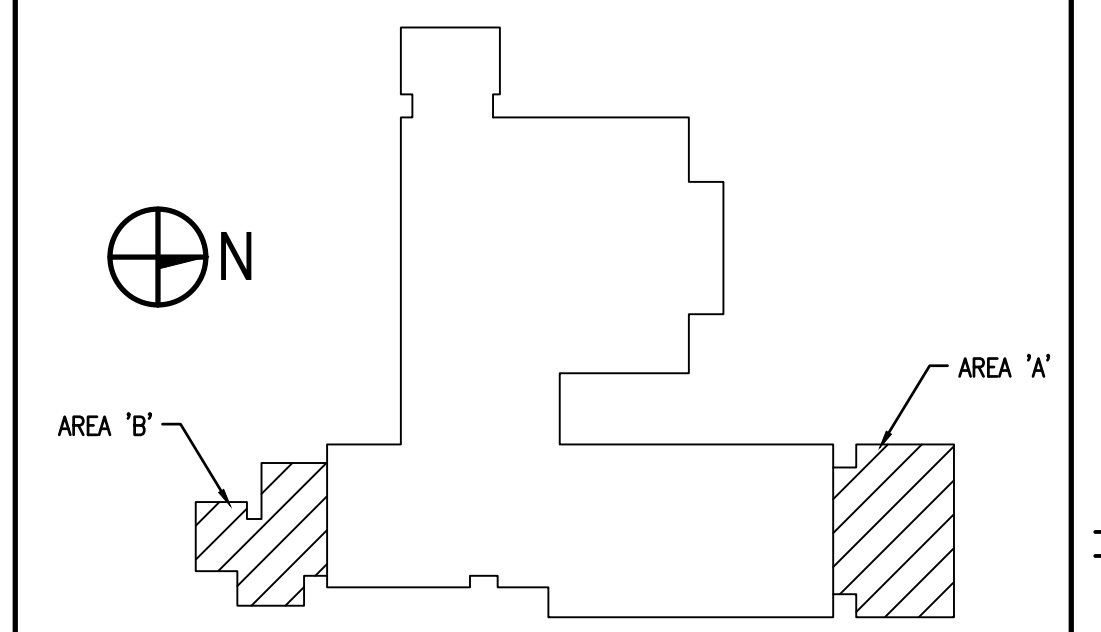
KEYNOTES

- EXISTING ROOFING TO REMAIN, NO WORK IN THIS AREA.
- REMOVE EXISTING FULLY ADHERED EPDM MEMBRANE ROOF, 1.5" ISO INSULATION, GRAVEL SURFACED ASPHALT BUILT UP ROOF, AND 2.5" WOOD FIBER INSULATION. EXISTING METAL DECK TO REMAIN.
- DISCONNECT AND REMOVE MECHANICAL EQUIPMENT AS NECESSARY FOR REMOVAL AND REPLACEMENT OF ROOFING. SALVAGE EQUIPMENT FOR REINSTALLATION. EXISTING MECHANICAL CURB TO REMAIN, REMOVE ASSOCIATED FLASHING AND ROOFING ACCESSORIES. FIELD VERIFY EXACT LOCATION, QUANTITY, AND SIZE.
- EXISTING PLUMBING VENT PENETRATION TO REMAIN. REMOVE ASSOCIATED FLASHING, BOOTS, AND ACCESSORIES. FIELD VERIFY EXACT LOCATION, QUANTITY, AND SIZE.
- EXISTING ROOF DRAIN TO REMAIN. REMOVE EXISTING STRAINER. REMOVE ASSOCIATED FLASHING AND ACCESSORIES. CLEAN FOREIGN DEBRIS FROM DRAIN.
- REMOVE EXISTING METAL GRAVEL STOP AND DRIP. EXISTING WOOD PERIMETER NAILED TO REMAIN. EXISTING WOOD FASCIA TO REMAIN.
- REMOVE EXISTING VERTICAL WALL FLASHING, AND TERMINATION BAR. REMOVE ASSOCIATED FASTENERS AND ACCESSORIES.
- CUT EXISTING EPDM MEMBRANE AT EXISTING SEAM.
- STRUCTURAL SLOPE.
- INSTALL NEW MEMBRANE ROOFING ON 5.5" RIGID INSULATION (MINIMUM R30) ON EXISTING STRUCTURALLY SLOPED METAL ROOF DECK.
- INSTALL MEMBRANE ROOFING ON TAPERED INSULATION ON 5.5" (MINIMUM R30) RIGID INSULATION BASE LAYER ON EXISTING METAL ROOF DECK. INSTALL TAPERED INSULATION AS SHOWN TO PROVIDE POSITIVE DRAINAGE TO EXISTING ROOF DRAINS.
- REINSTALL EXISTING MECHANICAL EQUIPMENT ON EXISTING CURB. EXTEND CURB AS NEEDED TO ENSURE MINIMUM 1'-0" HEIGHT ABOVE NEW ROOFING. FLASH AND SEAL PER ROOFING MANUFACTURERS REQUIREMENTS. EXTEND ELECTRICAL CONDUITS AS NEEDED TO ACCOMMODATE NEW EQUIPMENT HEIGHT. REFER TO DETAIL 2/A2.0.
- EXISTING PLUMBING VENT PENETRATION. CLEAN VENT PIPING OF FOREIGN DEBRIS. EXTEND VENT TO ENSURE IT IS A MINIMUM OF 12" ABOVE NEW ROOFING. INSTALL NEW BOOT/FLASHING PER ROOFING MANUFACTURERS REQUIREMENTS. FIELD VERIFY EXACT SIZE AND LOCATION. REFER TO DETAIL 3/A2.0.
- EXISTING ROOF DRAIN TO REMAIN. CLEAN FOREIGN DEBRIS FROM DRAIN. INSTALL NEW RE-ROOF DOME STRAINER. FLASH AND SEAL PER ROOFING MANUFACTURERS REQUIREMENTS. REFER TO DETAIL 1/A2.0.
- INSTALL NEW 2x WOOD PERIMETER NAILEDERS AS NEEDED TO ACCOMMODATE NEW INSULATION HEIGHT. INSTALL PRE-FINISHED METAL 2 PIECE COMPRESSION FASCIA AT ROOF EDGE. FLASH AND SEAL PER ROOFING MANUFACTURERS REQUIREMENTS. REFER TO DETAIL 5/A2.0.
- EXTEND MEMBRANE UP EXISTING MASONRY VERTICAL WALL MINIMUM 12". INSTALL TERMINATION BAR AND SEALANT PER ROOFING MANUFACTURERS REQUIREMENTS. REFER TO DETAIL 4/A2.0.
- SPlice/WELD NEW MEMBRANE ROOFING INTO EXISTING MEMBRANE ROOFING PER ROOFING MANUFACTURERS REQUIREMENTS.
- EXISTING GLASS BLOCK WALL CONSTRUCTION, REFER TO DETAIL 6/A2.0. PROVIDE SEALANT ALONG ALL NEW ROOF EDGES THIS LOCATION.

GENERAL NOTES

- ALL DIMENSIONS INDICATED ARE PLUS OR MINUS. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR VERIFICATION. FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING EXISTING EQUIPMENT, ROOF PENETRATION LOCATIONS, QUANTITIES, AND SIZES. INSTALLATION OF NEW MATERIALS IMPLIES CONTRACTORS ACCEPTANCE OF EXISTING SUBSTRATE BEING SUITABLE FOR THE INSTALLATION OF NEW MATERIALS.
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- EXTEND EXISTING EQUIPMENT CURBS AS NECESSARY TO ACCOMMODATE NEW INSULATION THICKNESS. TOP OF CURB TO BE A MINIMUM OF 12" ABOVE TOP OF NEW INSULATION.
- REMOVE EXISTING METAL ROOF FASCIA/DRIP-EDGE AROUND PERIMETER OF EXISTING ROOF AREA. INSTALL NEW PRE-FINISHED METAL FASCIA AT PERIMETER OF ROOF WHEN NEW ROOF SYSTEM IS INSTALLED. FASCIA TO EXTEND A MINIMUM OF 4" BELOW ROOF SYSTEM COMPONENTS AND/OR WOOD NAILEDERS.
- DISCONNECT AND REMOVE ALL ROOFTOP EQUIPMENT AS NECESSARY TO ALLOW FOR COMPLETE REMOVAL OF EXISTING ROOFING SYSTEM. SALVAGE ALL EQUIPMENT FOR REINSTALLATION. REMOVE ALL ASSOCIATED FLASHING AND TERMINATION BARS, EQUIPMENT CURBS TO REMAIN UNLESS OTHERWISE NOTED. EXISTING BRANCH CIRCUITRY SERVING EQUIPMENT SHALL REMAIN AND BE REUSED. REINSTALL AND CONNECT PREVIOUSLY SALVAGED ROOFTOP EQUIPMENT AS NEEDED AFTER INSTALLATION OF NEW ROOF SYSTEM UNLESS OTHERWISE NOTED. EXTEND EXISTING BRANCH CIRCUITRY SERVING EQUIPMENT TO ACCOMMODATE NEW INSULATION THICKNESS. WHERE APPLICABLE CONNECT ALL CONTROL WIRING, POWER WIRING, AND TEST OPERATION. PROVIDE WEATHERPROOF JUNCTION BOXES, CONDUIT, WIRING, ETC. AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION. RELOCATE ANY STARTERS/DISCONNECT SWITCHES AS REQUIRED.
- PROVIDE MANUFACTURER'S STANDARD ROOF TERMINATION WHERE REQUIRED. ALL TERMINATIONS TO COMPLY WITH MANUFACTURER'S RECOMMENDATIONS.
- TAPERED INSULATION TO SLOPE AT 1/4" / FT. MINIMUM.

KEY PLAN



ARCHITECTURE
ENGINEERING
CONSULTING

CLIO AREA SCHOOLS
2018 PROJECTS
CLIO MICHIGAN

PROJECT NO. 18-163

NO.	REVISIONS	DATE
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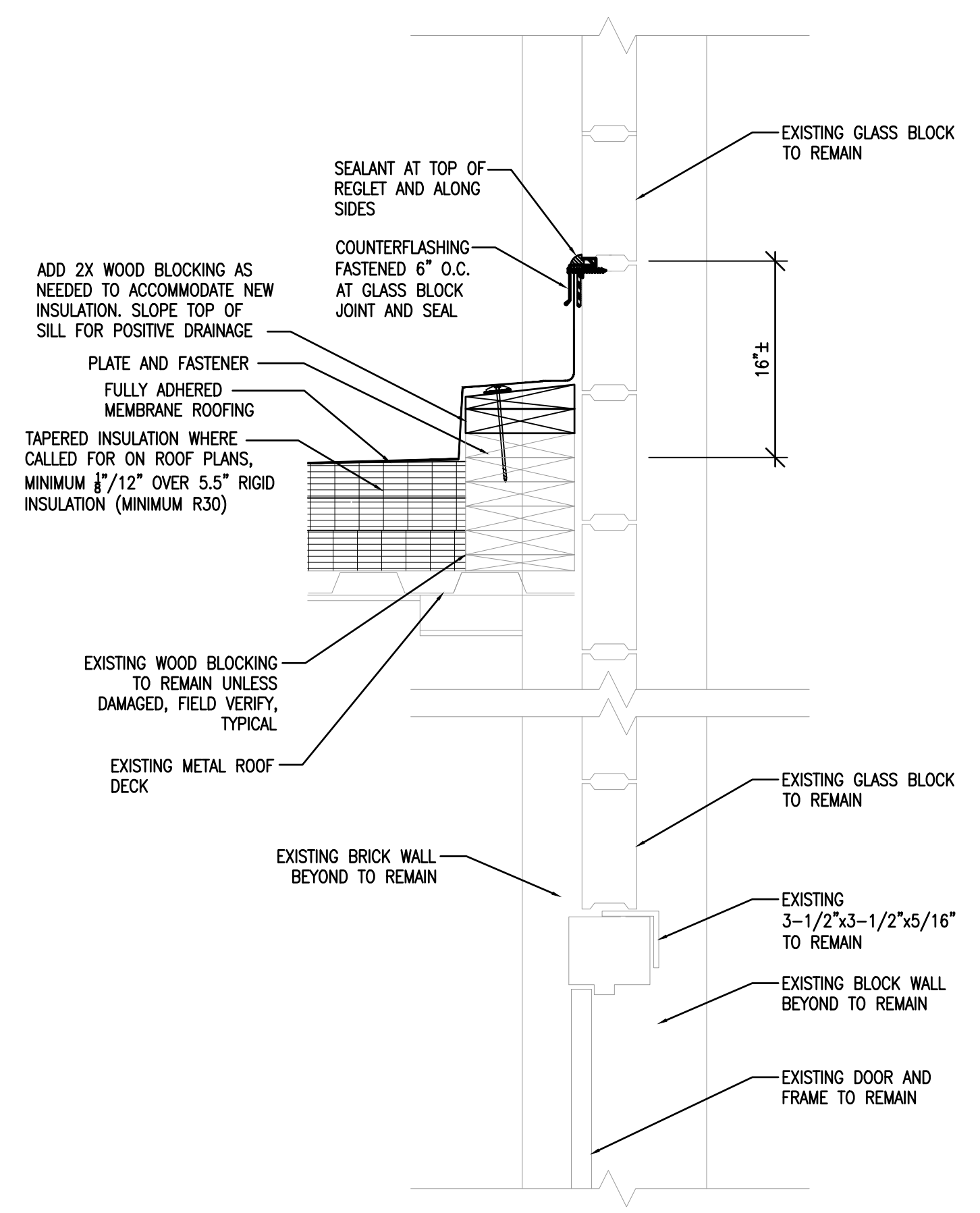
GARNER ELEMENTARY
ROOF DEMOLITION
& ROOF PLAN

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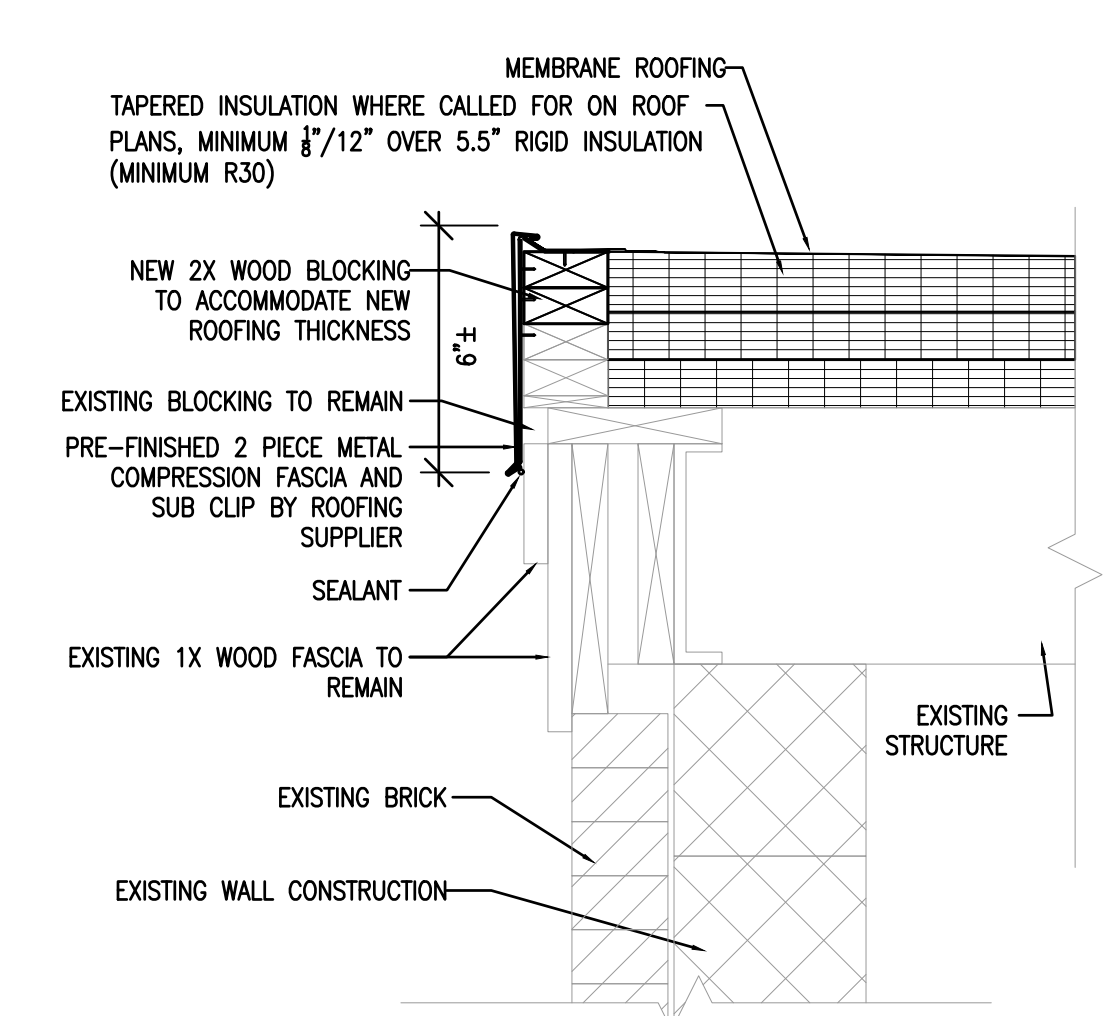
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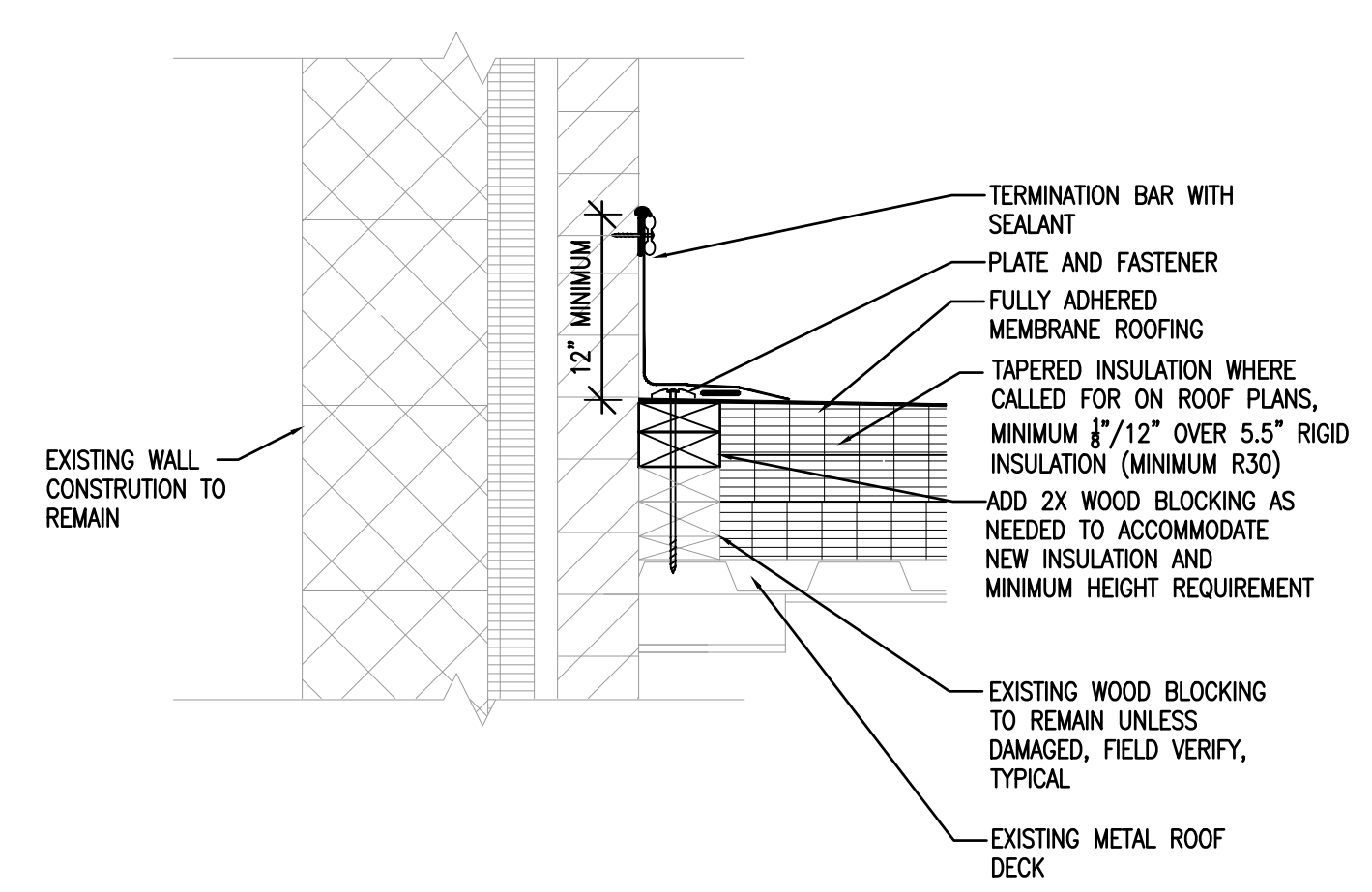
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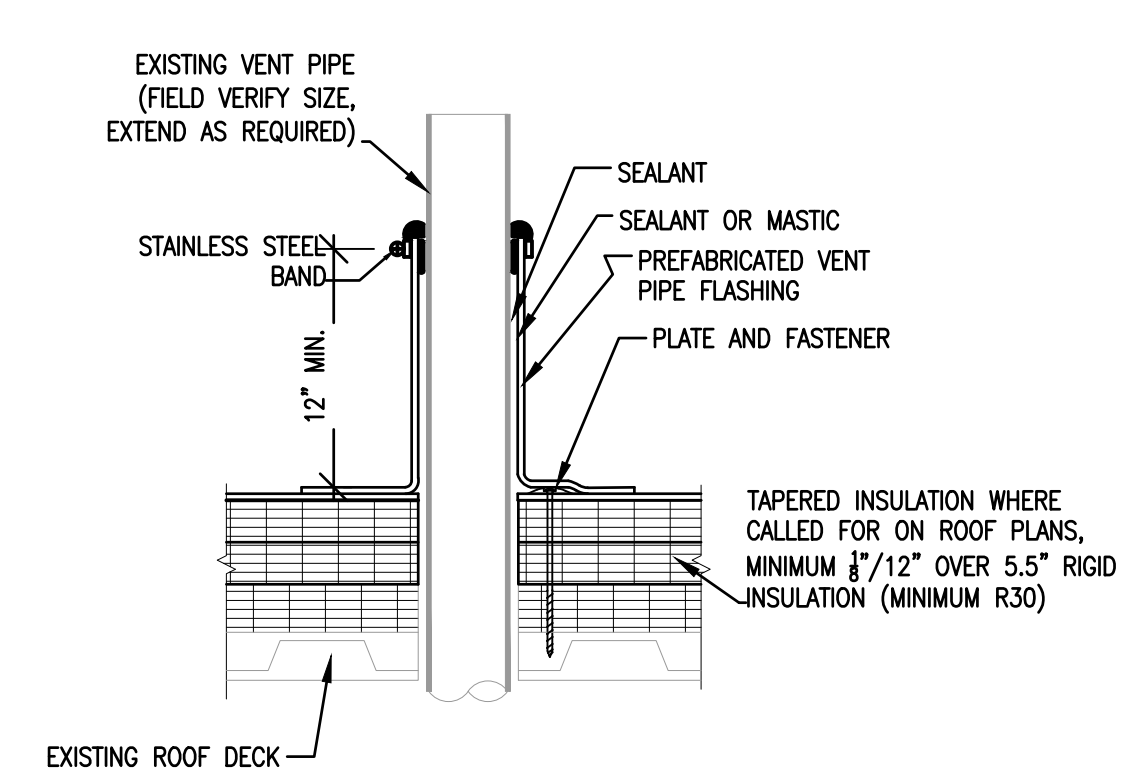
ROOF DETAIL
SCALE: 1-1/2" = 1'-0"
6
A2.0



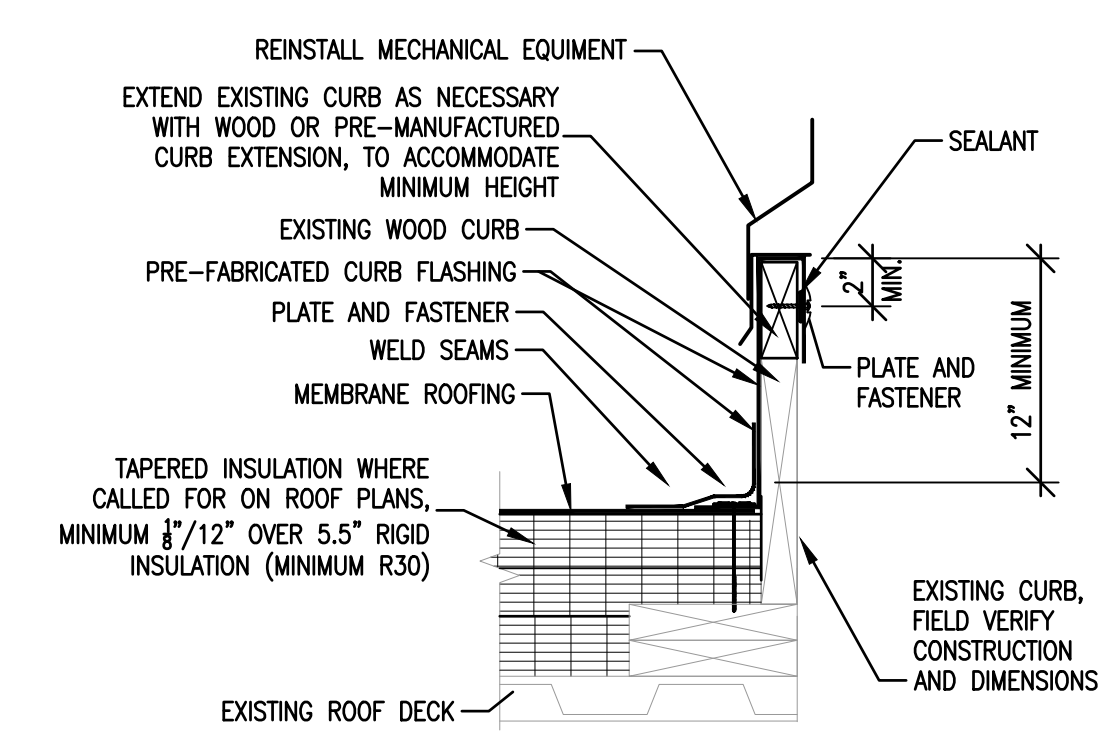
ROOF DETAIL
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A2.0



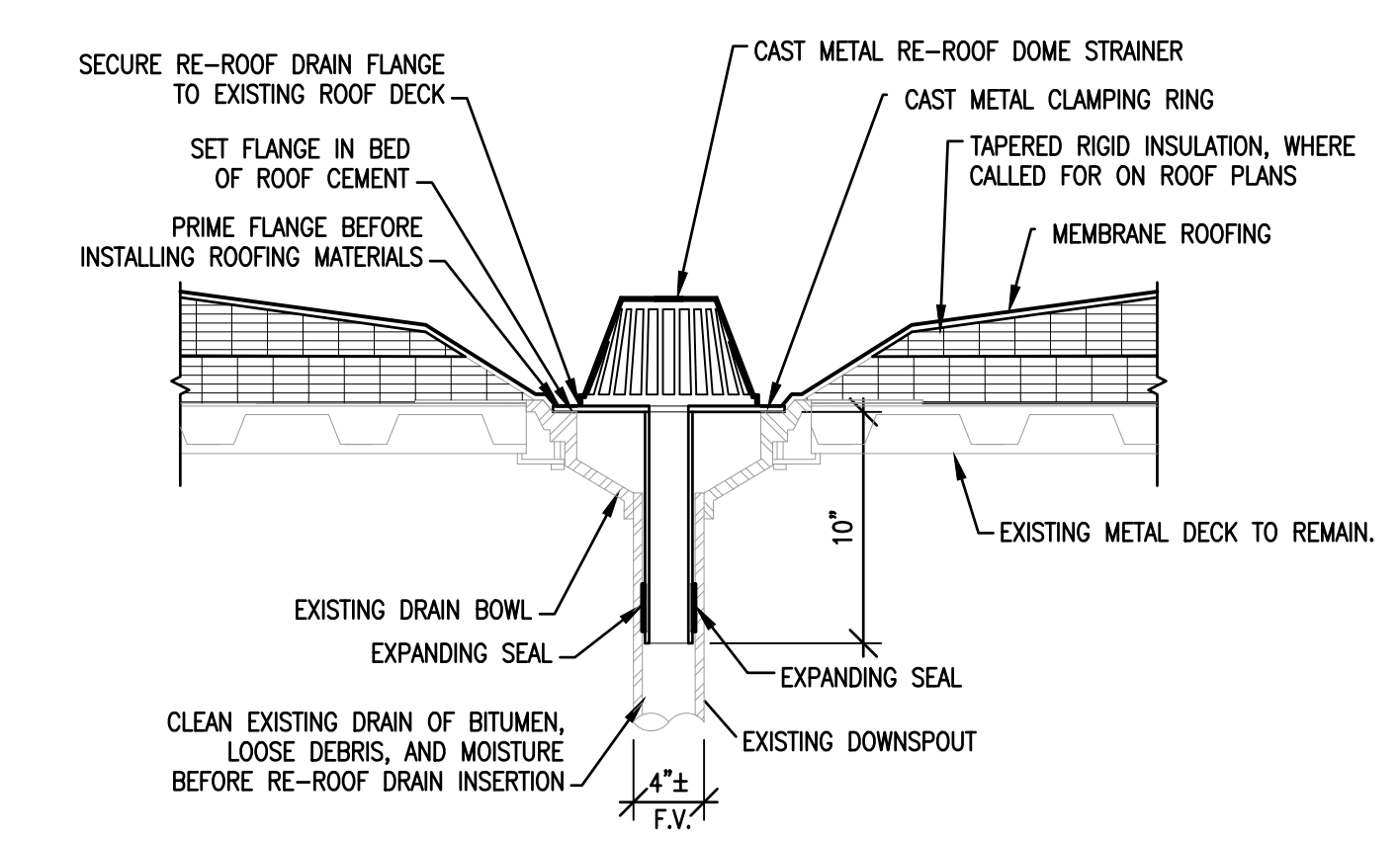
ROOF DETAIL
SCALE: 1-1/2" = 1'-0"
4
A2.0



ROOF DETAIL
SCALE: 1-1/2" = 1'-0"
3
A2.0



ROOF DETAIL
SCALE: 1-1/2" = 1'-0"
2
A2.0



ROOF DETAIL
SCALE: 1-1/2" = 1'-0"
1
A2.0