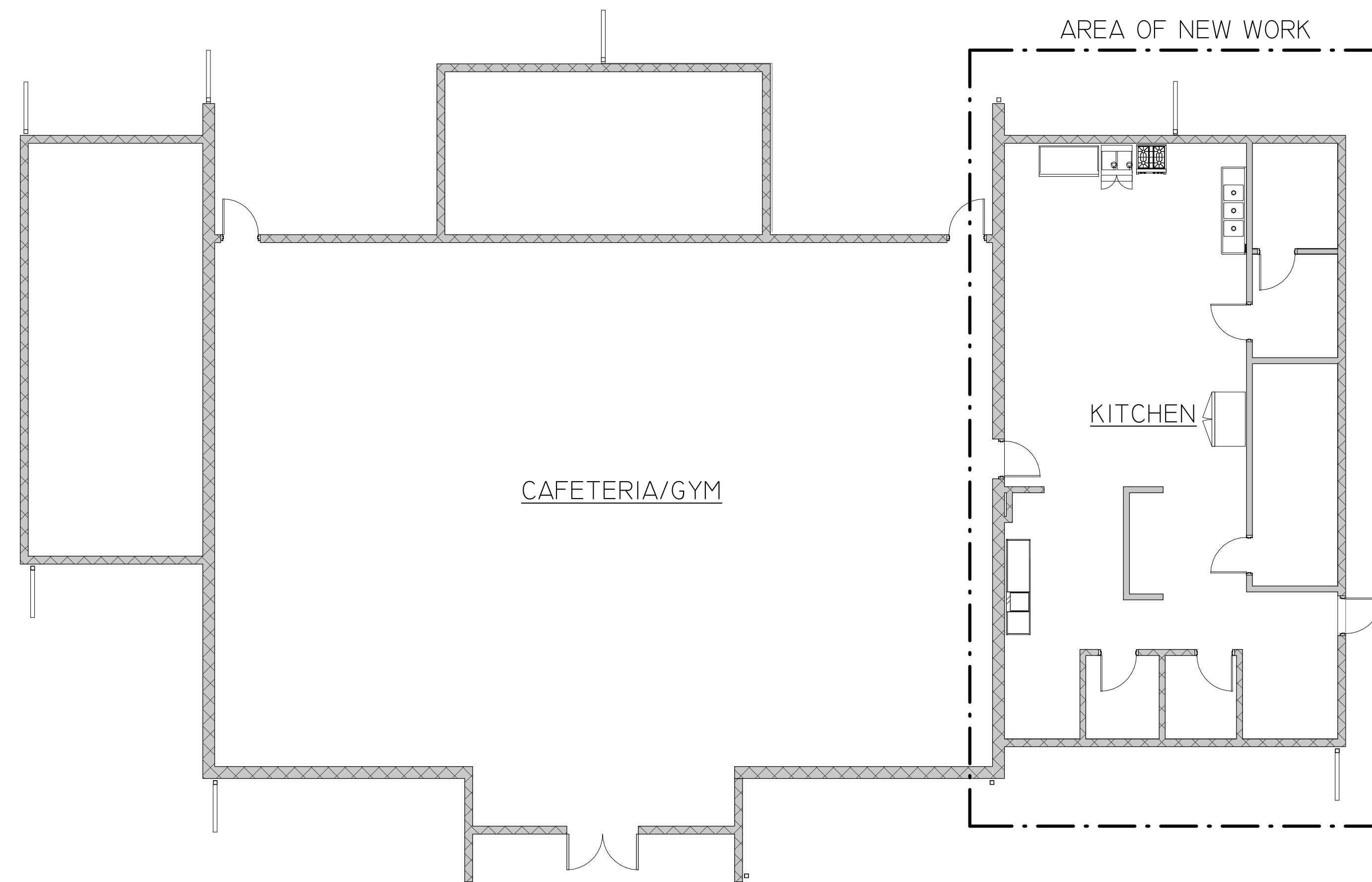
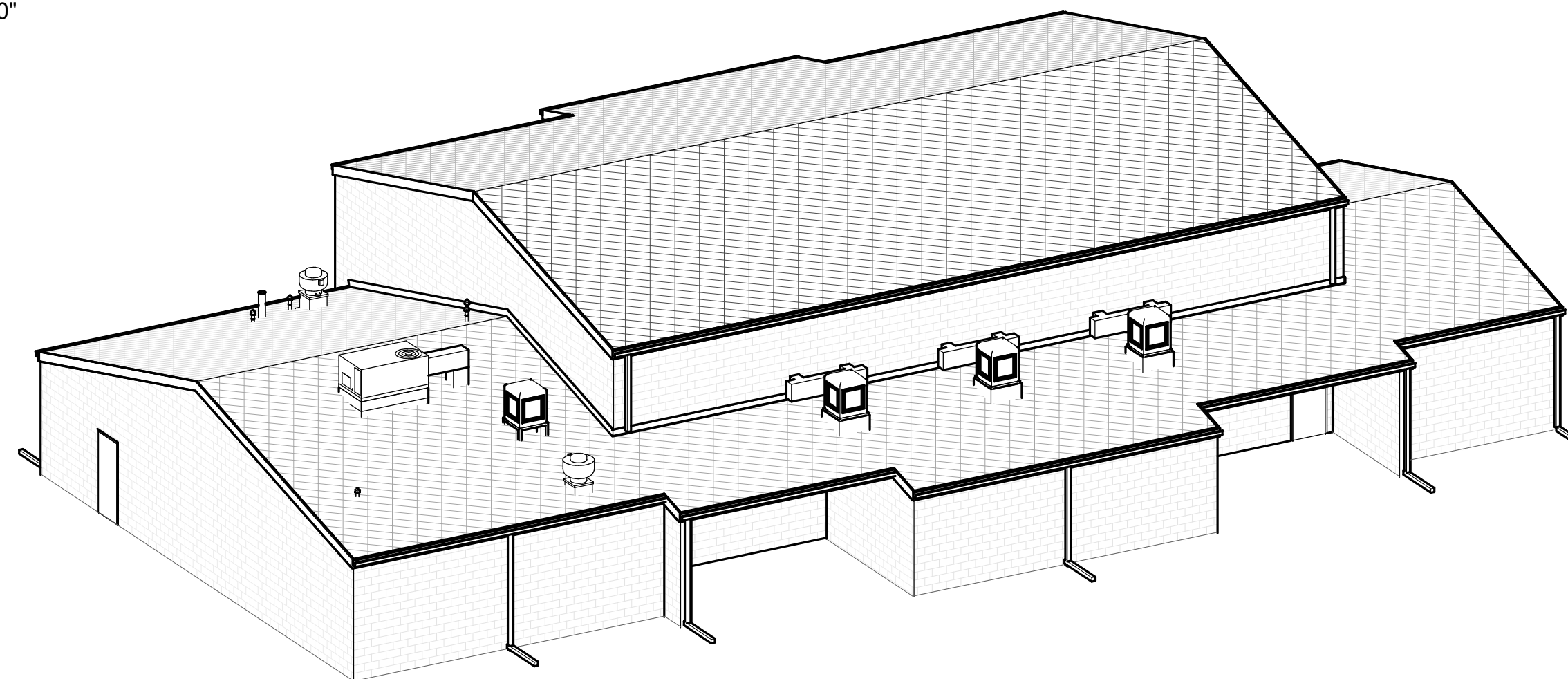


# VALLEY UNION HIGH SCHOOL DISTRICT

## ROOF REPLACEMENT AND STRUCTURAL REPAIRS CAFETERIA BUILDING NO. 1009 4088 W. JEFFERSON RD. ELFRIDA, AZ 85610 2019



3 OVERALL BUILDING PLAN  
1/8" = 1'-0"



4 BIRDS EYE VIEW

SFB CONTACT: CARLOS MONREAL  
(602) 364-4977

ARCHITECT: ROBERT POLCAR ARCHITECTS  
BOB POLCAR  
(602) 363-4096

STRUCTURAL: BRODERICK ENGINEERING  
RYAN WENDT  
(520) 887-9416

SCHOOL CONTACT: KYLE HART  
(602) 510-5865

SFB PROJECT #: 020522201-1009-014-BRG

### SHEET INDEX

- A0 PROJECT INFORMATION
- A1 FLOOR AND CEILING PLAN
- A2 ROOF PLAN
- A3 ROOF DETAILS
- A4 ELEVATIONS
- S100 STRUCTURAL PLAN AND DETAILS

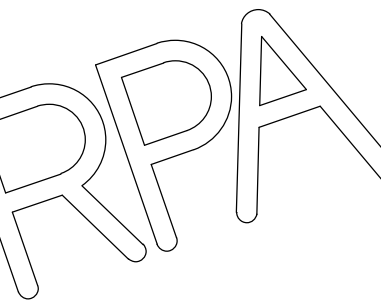
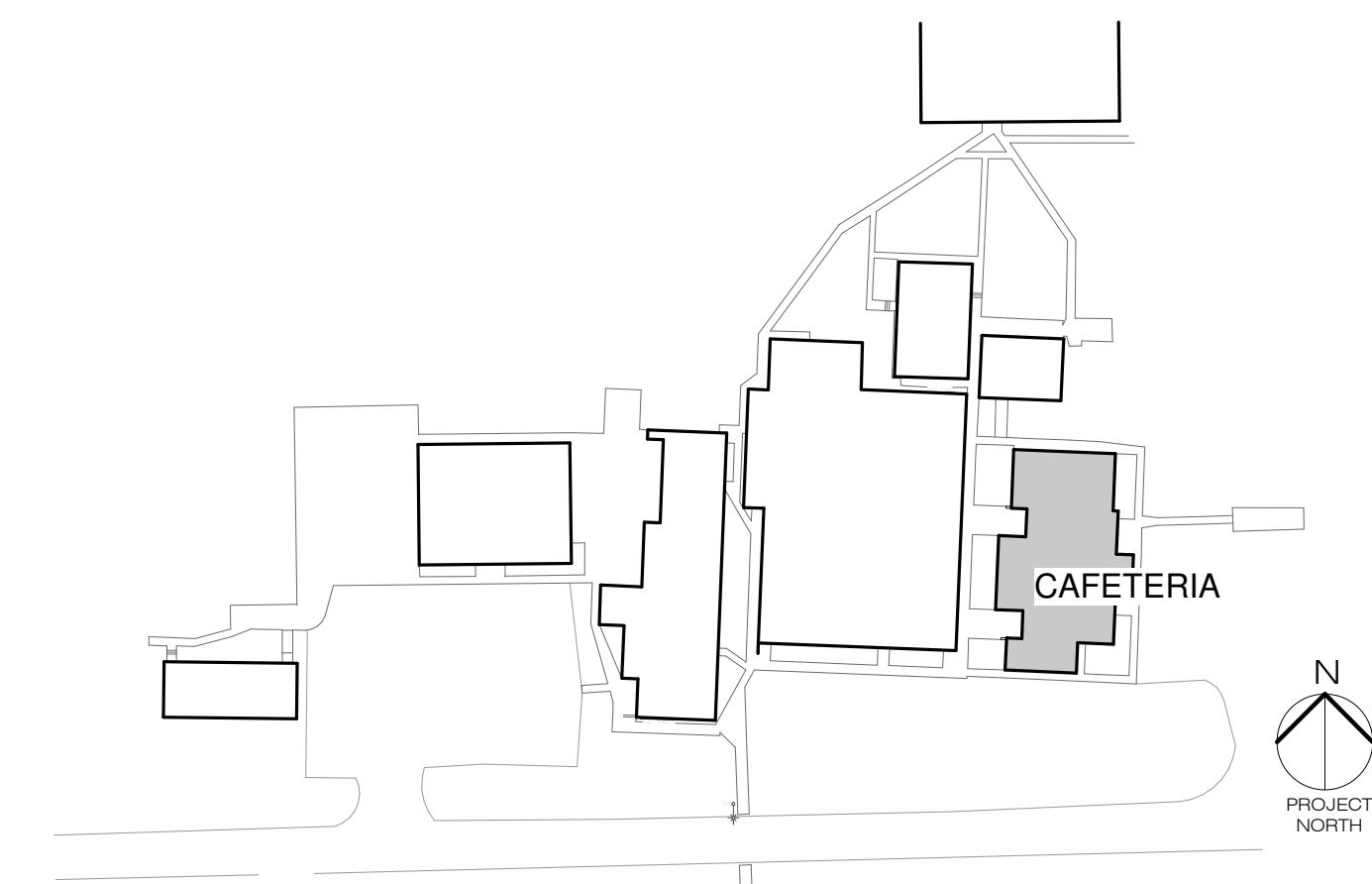
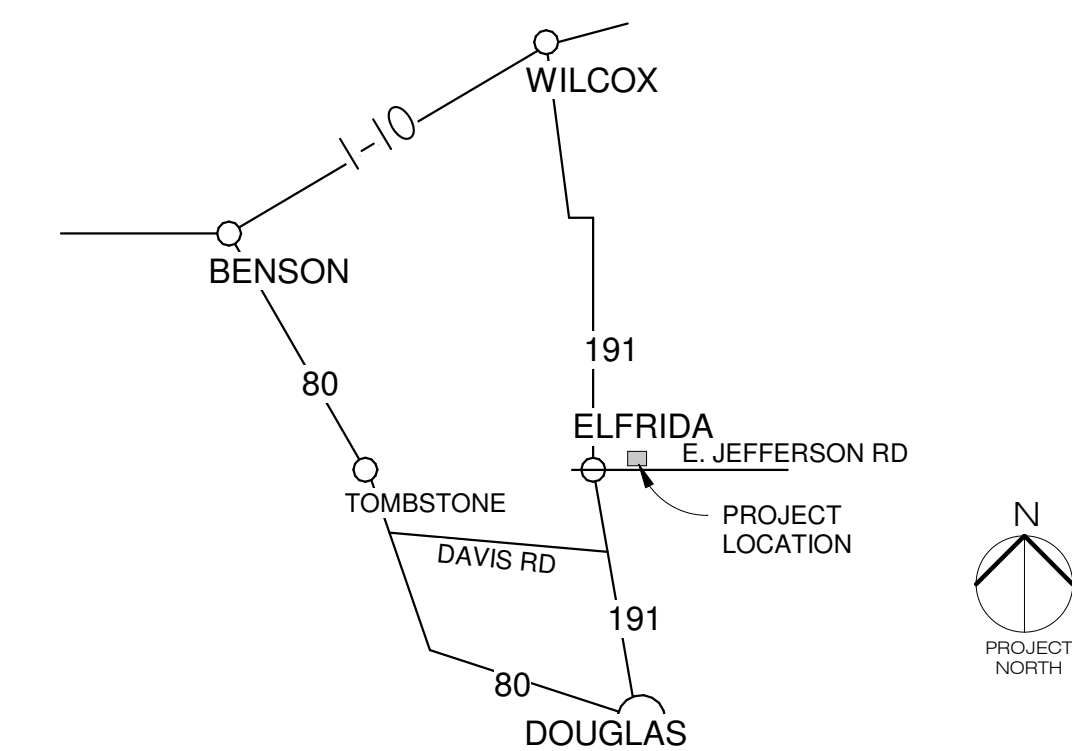
### PROJECT SCOPE:

ALL EXISTING MATERIALS FOR THE ASPHALT SINGLE ROOF SYSTEM IN THE INDICATED AREA ONLY ARE TO BE REMOVED TO THE WOODEN ROOF DECK AND REPLACED WITH A NEW ASPHALT SHINGLE SYSTEM, INCLUDING ALL MOISTURE BARRIERS AND SHINGLES, TRIMS, FLASHINGS, STARTER STRIPS, ROOF VENTS AS SPECIFIED AND DETAILED, AND CURBS WHERE NECESSARY.

THE EXISTING KITCHEN ROOF STRUCTURE IS FAILING AND STRUCTURAL REPAIRS ARE REQUIRED AS DETAILED ON THE STRUCTURAL PLAN. ROOF PLYWOOD WILL NEED TO BE INSPECTED AND REPLACED WHERE DAMAGED. AN ALLOWANCE WILL BE NOTED IN THE BID FORM. THE EXISTING KITCHEN CEILING WILL NEED TO BE REMOVED FOR STRUCTURAL REPAIRS AND REPLACED WITH NEW. KITCHEN EQUIPMENT WILL NEED TO BE MOVED TO PROVIDE FLOOR SPACE FOR STRUCTURAL REPAIRS.

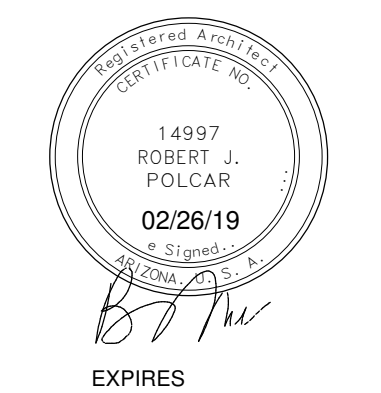
THE EXISTING ROOF INSULATION OVER THE KITCHEN AREA WILL BE REMOVED AND REPLACED WITH NEW.

EXISTING MECHANICAL, ELECTRICAL, COMMUNICATION, SECURITY, AND PLUMBING LINES ABOVE THE KITCHEN CEILING ARE TO REMAIN IN PLACE AND BE WORKED AROUND.



ROBERT POLCAR ARCHITECTS, INC  
(480) 675-9760 (602) 363-4096  
SEDONA, ARIZONA

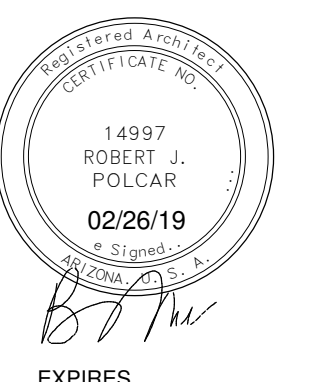
VALLEY UNION HIGH SCHOOL DISTRICT  
ROOF REPLACEMENT AND STRUCTURAL REPAIRS  
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Revision	Revision Date
Project number	02052221-1009-014BRG
Date	02/26/19
Drawn by	CW
Checked by	BP
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Sheet Name	PROJECT INFORMATION

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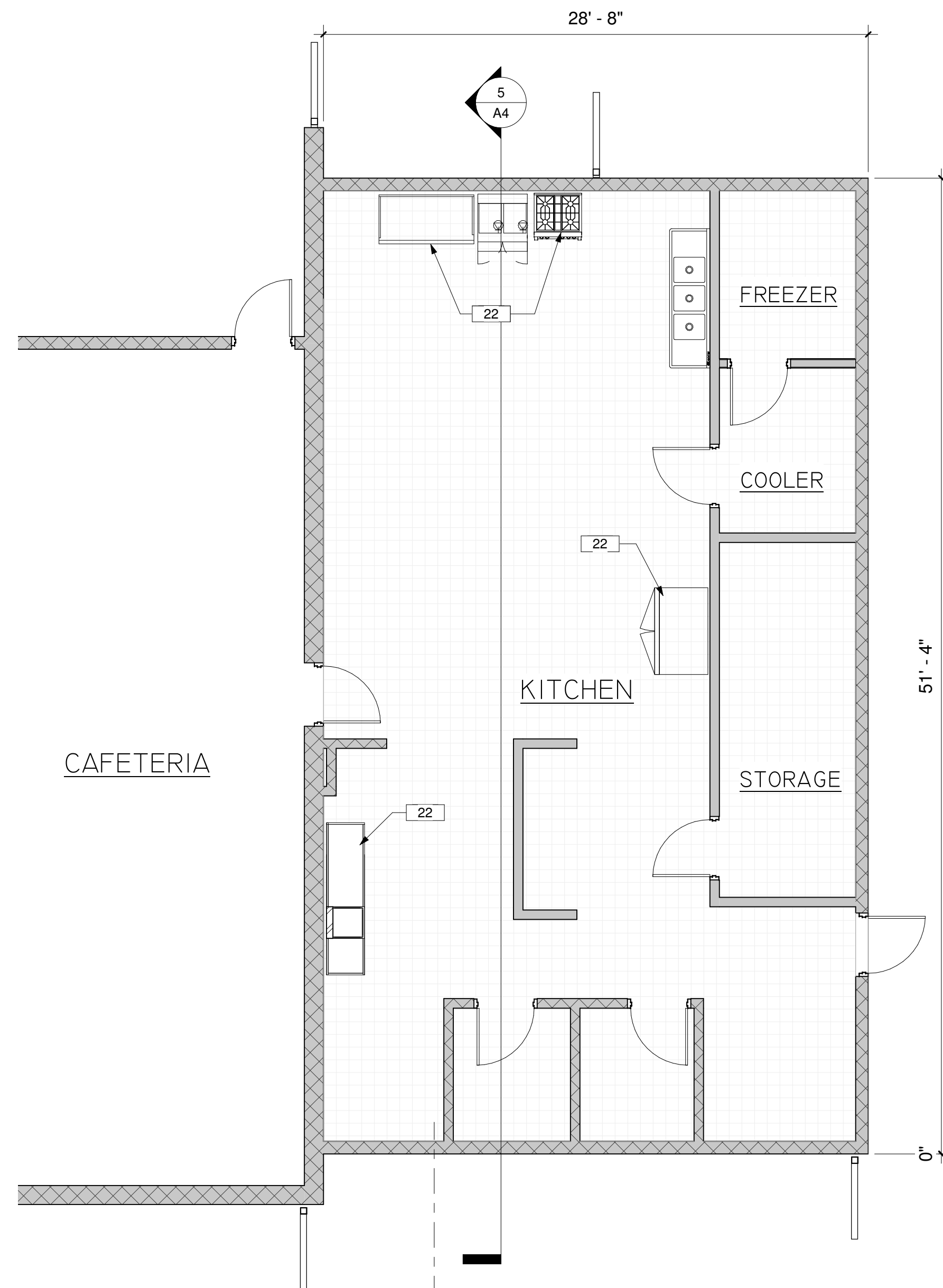
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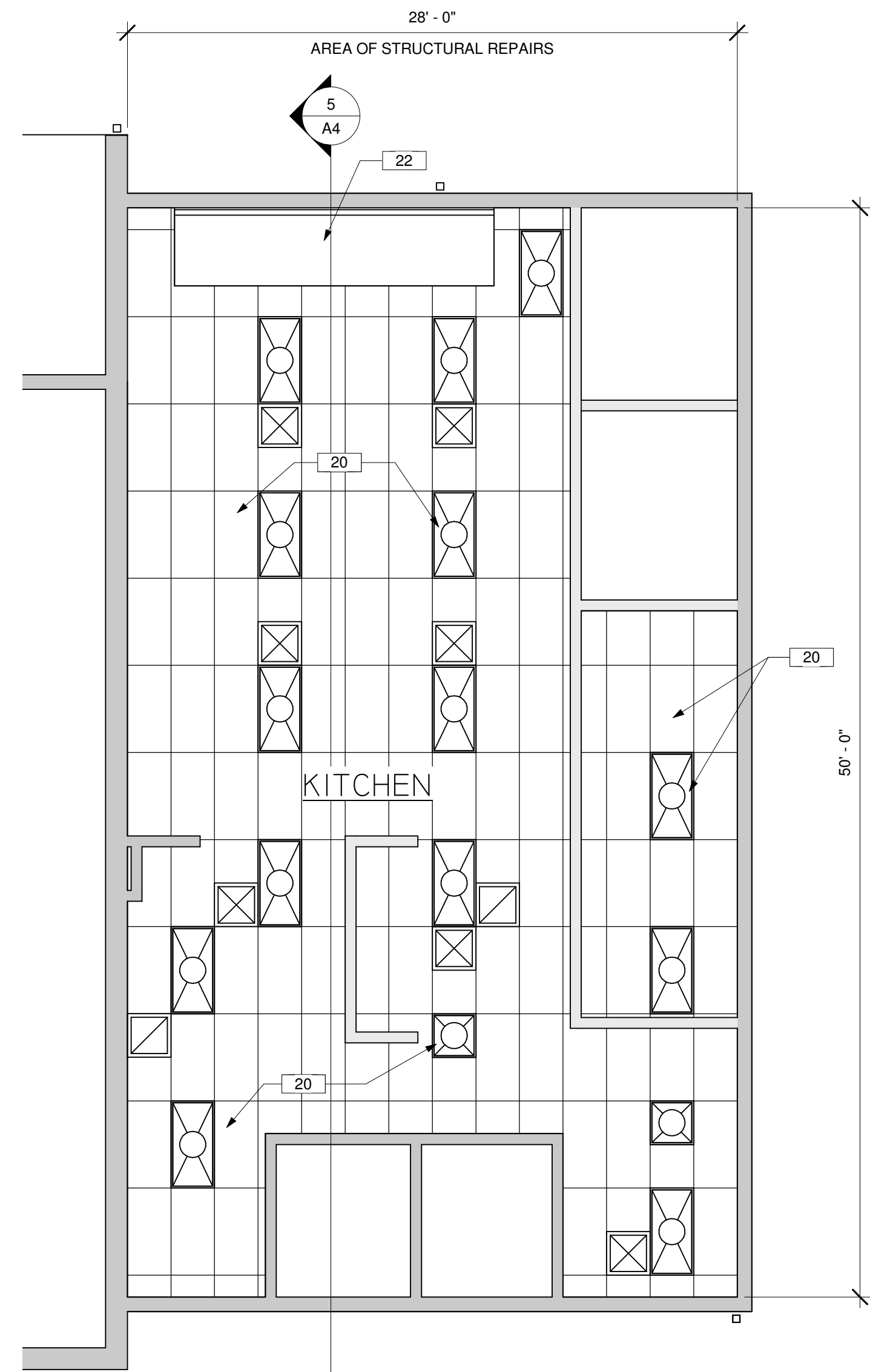
Sheet Name FLOOR AND CEILING PLAN

KEYNOTES

- 1 EXSTG ASPHALT SHINGLE ROOF AND UNDERLAYMENT TO BE REMOVED TO PLYWOOD DECK. INSTALL NEW COMPLETE ASPHALT SHINGLE SYSTEM INCLUDING UNDERLAYMENT, TRIMS, STARTERS AND VENTS.
- 2 REMOVE AND REPLACE EXISTING METAL DRIP EDGES. PAINT NEW GALVANIZED METAL TO MATCH EXISTING.
- 3 EXSTG METAL WRAP ON FASCIA BOARDS TO REMAIN. CLEAN, PREP, PRIME AND REPAINT.
- 4 EXISTING METAL GUTTERS AND DOWNSPOUTS TO BE REMOVED TYPICAL THROUGHOUT WORK AREA.
- 5 NEW 4" RECTANGULAR GUTTER SYSTEM, METAL-ERA OR EQUAL, 24ga STEEL IGGB-C7 VERSION, KYNAR 500 FINISH. SLOPE 1/8" PER FOOT TO DOWNSPOUT AS INDICATED.
- 6 NEW 3"x4" DOWNSPOUT, METAL-ERA OR EQUAL, 24ga STEEL, KYNAR 500 FINISH. PROVIDE ALL STRAPS AND SECURING ACCESSORIES.
- 7 PROVIDE AND INSTALL 4 FOOT EXTENSION TO END OF DOWNSPOUT AT GRADE LEVEL TO DIVERT STORMWATER AWAY FROM BUILDING FOUNDATION. SWALE GRADE SLIGHTLY WHERE REQUIRED TO INSURE SLOPE AWAY FROM BUILDING FOUNDATION.
- 8 PROVIDE NEW FLASHING AT ALL MECHANICAL UNITS, ROOF PENETRATIONS AND ROOF INTERSECTIONS TO VERTICAL MASONRY WALLS AS INDICATED ON ARCHITECTURAL DETAILS.
- 9 RIDGE LINE. INSTALL GAF, OR SIMILAR APPROVED, COBRA RIGID VENT 3 AND RIDGID CAP SHINGLES (TIMBERTEX OR EQUAL).
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- 12 ANY UTILITY CONNECTION INCLUDING WATER, GAS, ELECTRIC, CONDENSATE DRAINS, ETC. SERVING A ROOFTOP UNIT WHICH REQUIRES LIFTING, MOVING, CURB REPLACEMENT OR OTHER MODIFICATION SHALL BE DISCONNECTED AND A NEW CONNECTION INSTALLED FROM UNIT TO CLOSEST EXISTING POINT OF CONNECTION.
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- 24 SEE STRUCTURAL PLAN FOR REPAIR OF FAILED ROOF TRUSSES.

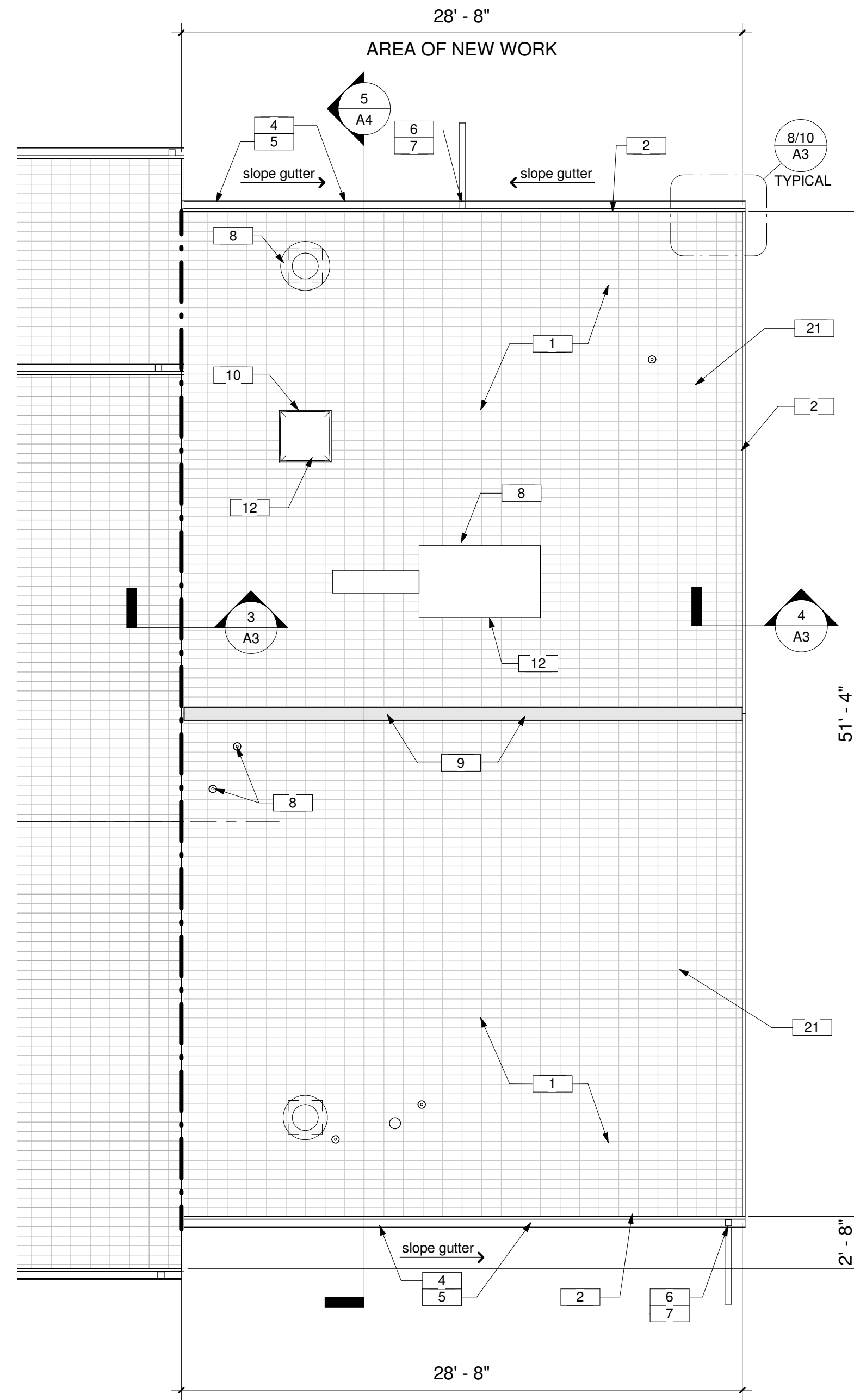


1 LEVEL ONE FLOOR PLAN  
 3/16" = 1'-0"



2 LEVEL ONE CEILING PLAN  
 3/16" = 1'-0"

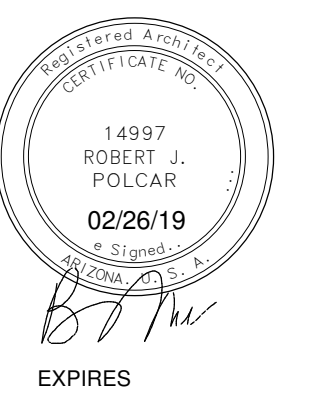
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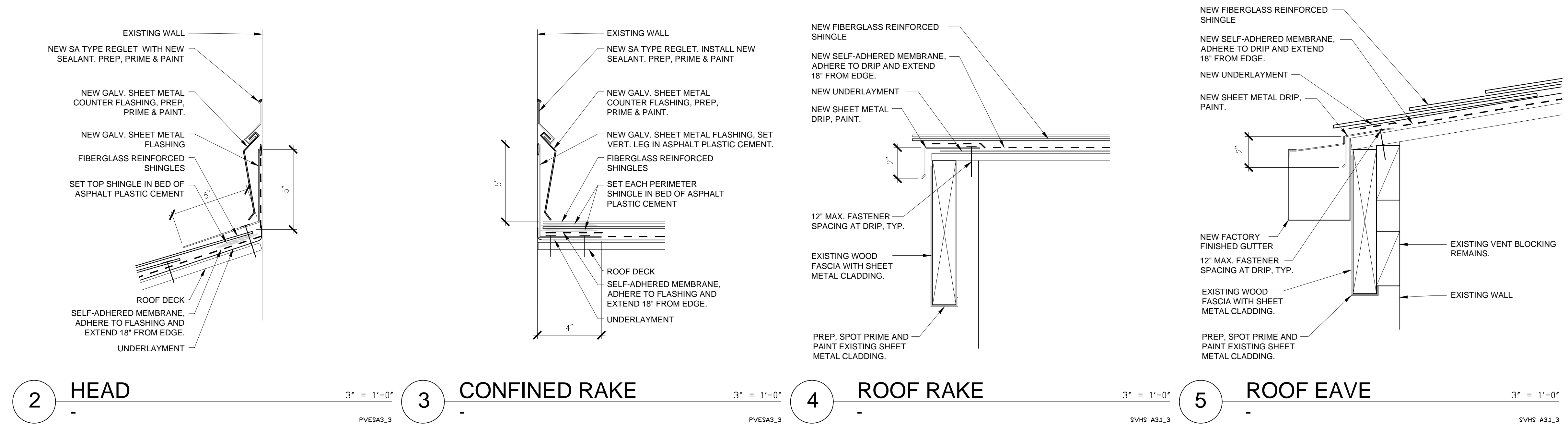
1 ROOF PLAN  
 3/16" = 1'-0"  
 PROJECT NORTH

KEYNOTES

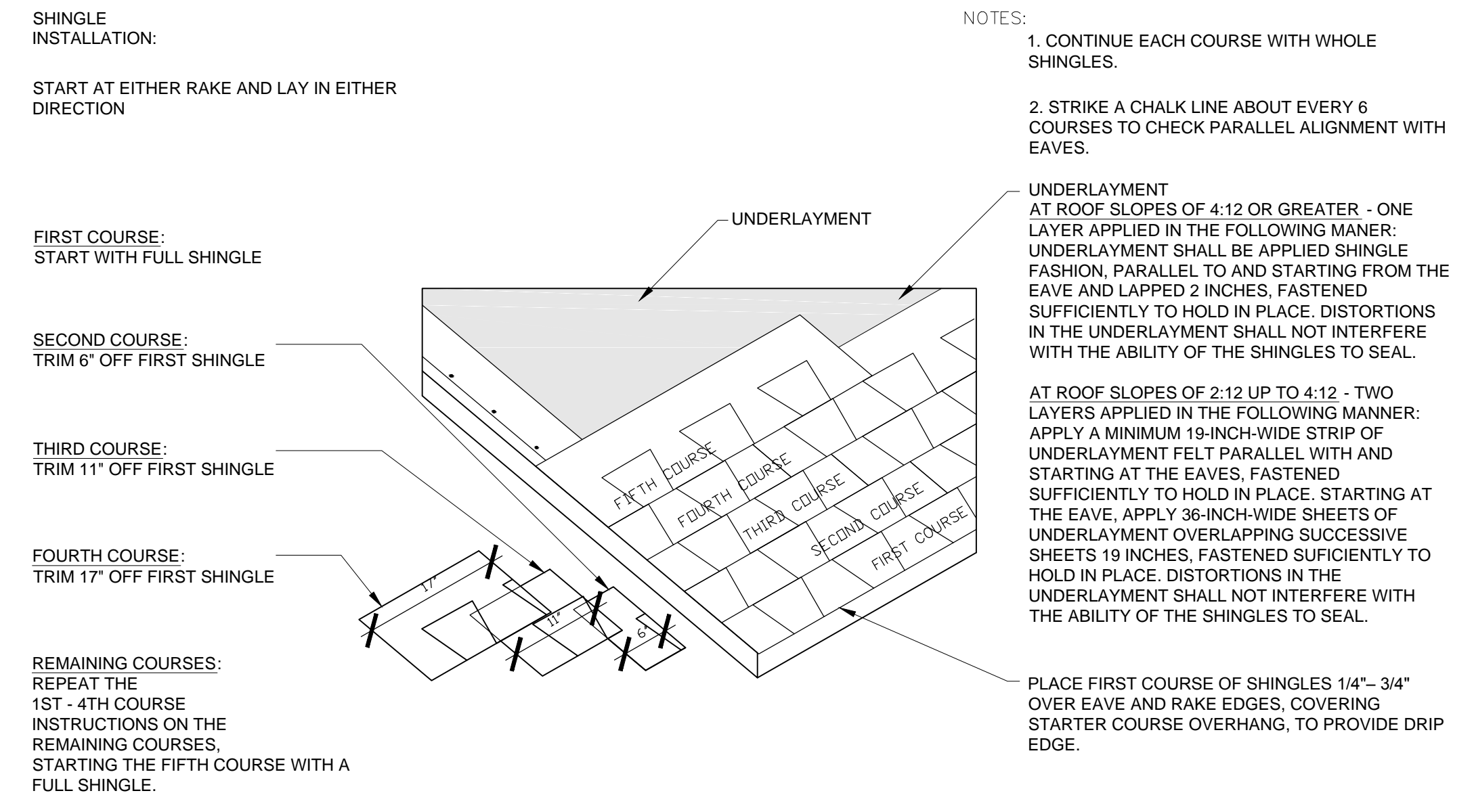
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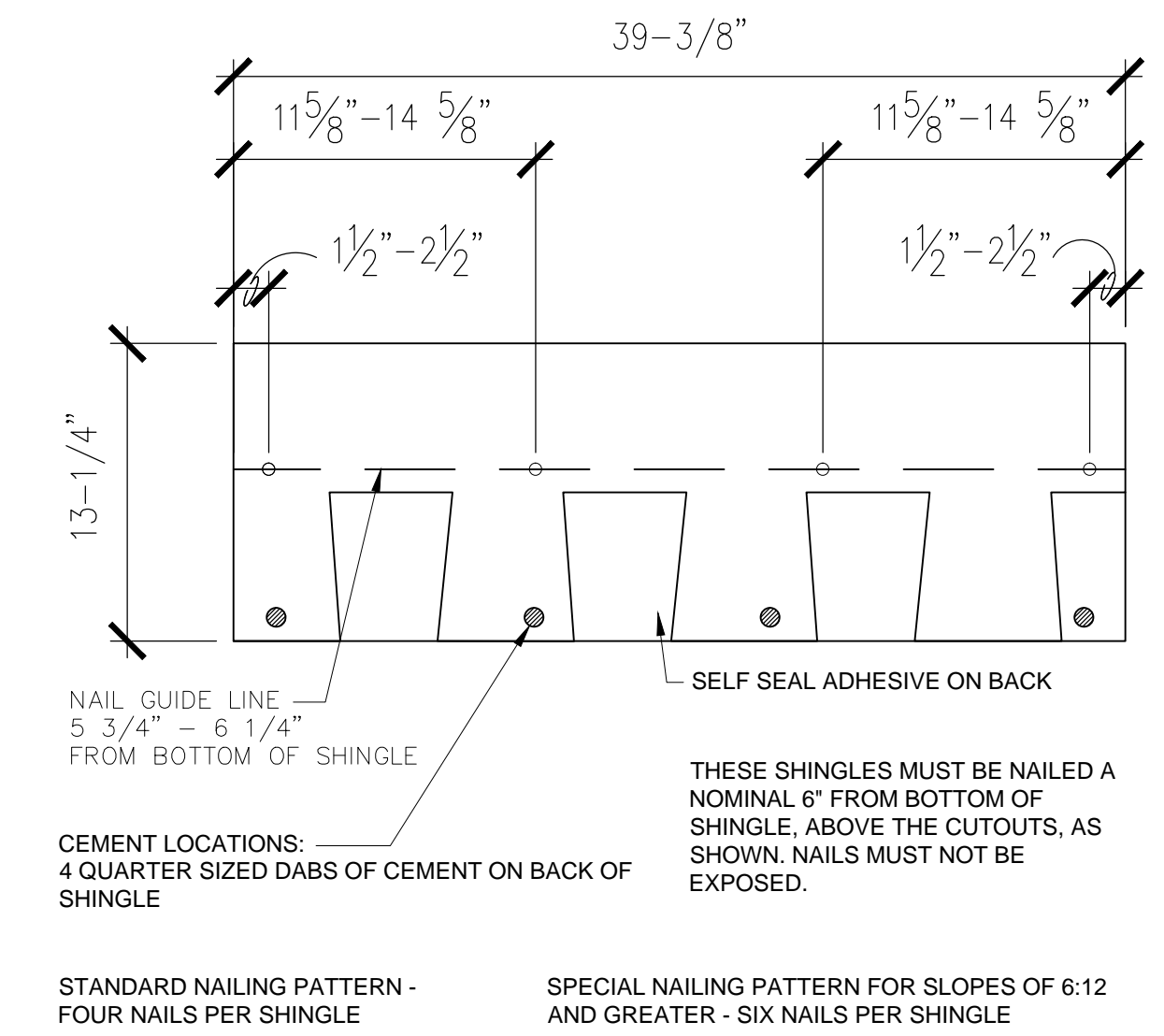
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Date	02/26/19
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Checked by	BP
Sheet Size	ARCH D
Sheet Name	ROOF PLAN



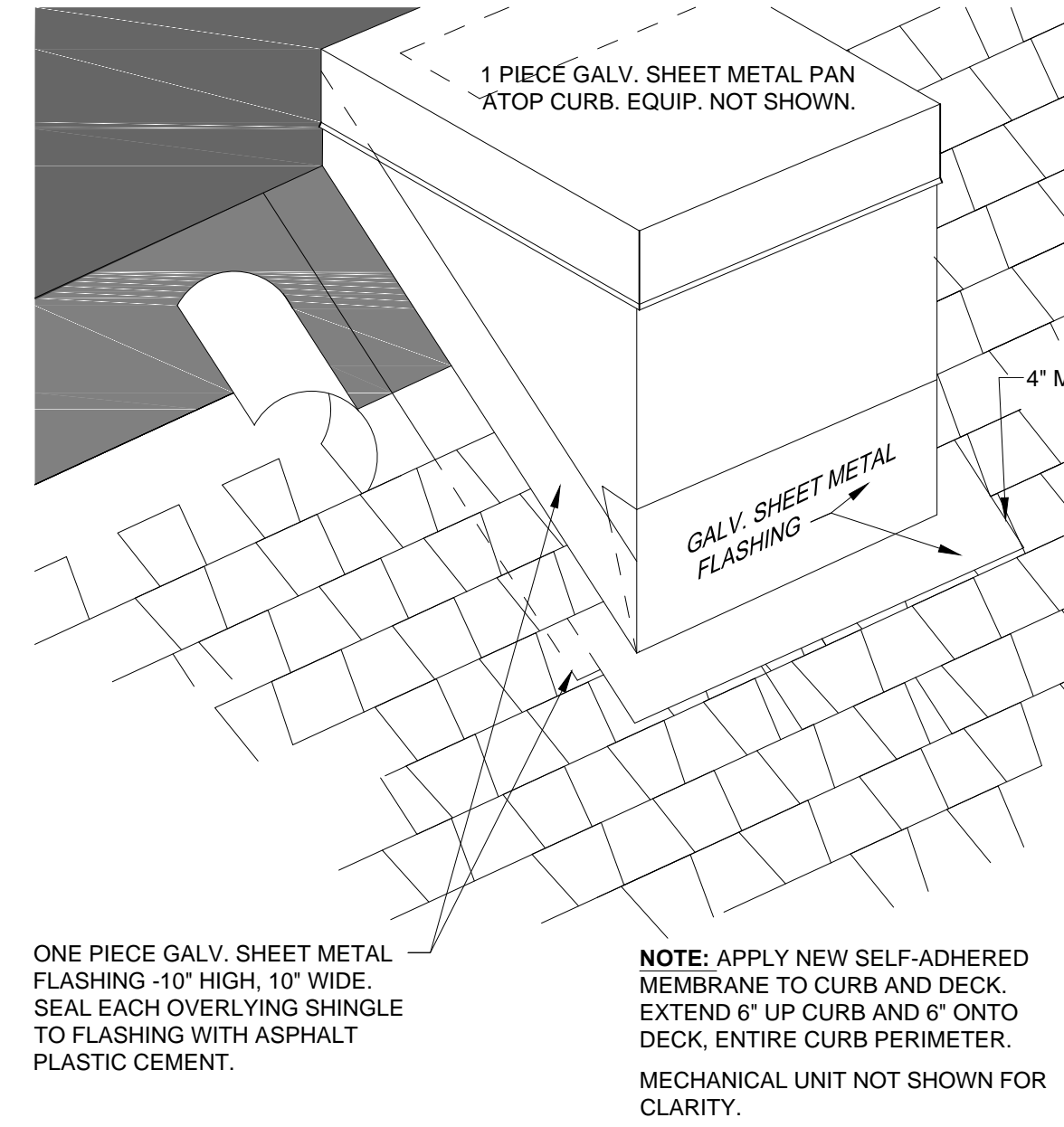
2 HEAD 3' = 1'-0" PVESA3\_3  
 3 CONFINED RAKE 3' = 1'-0" PVESA3\_3  
 4 ROOF RAKE 3' = 1'-0" SVHS A31\_3  
 5 ROOF EAVE 3' = 1'-0" SVHS A31\_3



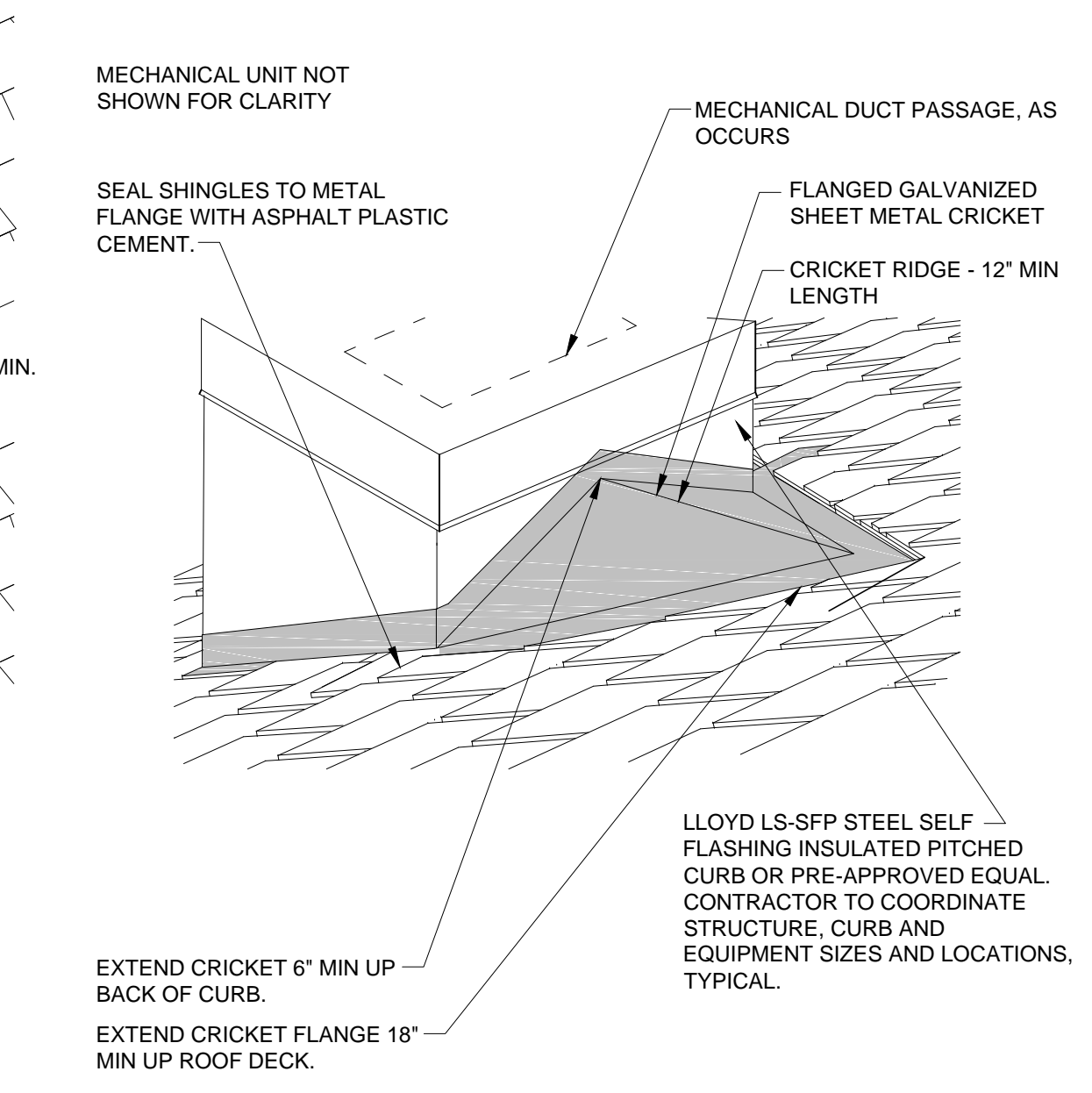
8 SHINGLE INSTALLATION NO SCALE PVES A8\_1-11E



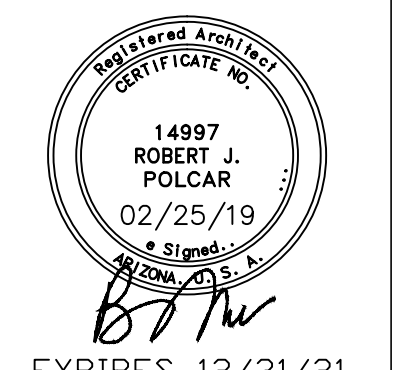
10 SHINGLE ATTACHMENT 1 1/2" = 1'-0" PVES A8\_1-11E



14 MECH. CURB 3/4" = 1'-0" PVESA8\_1\_31A



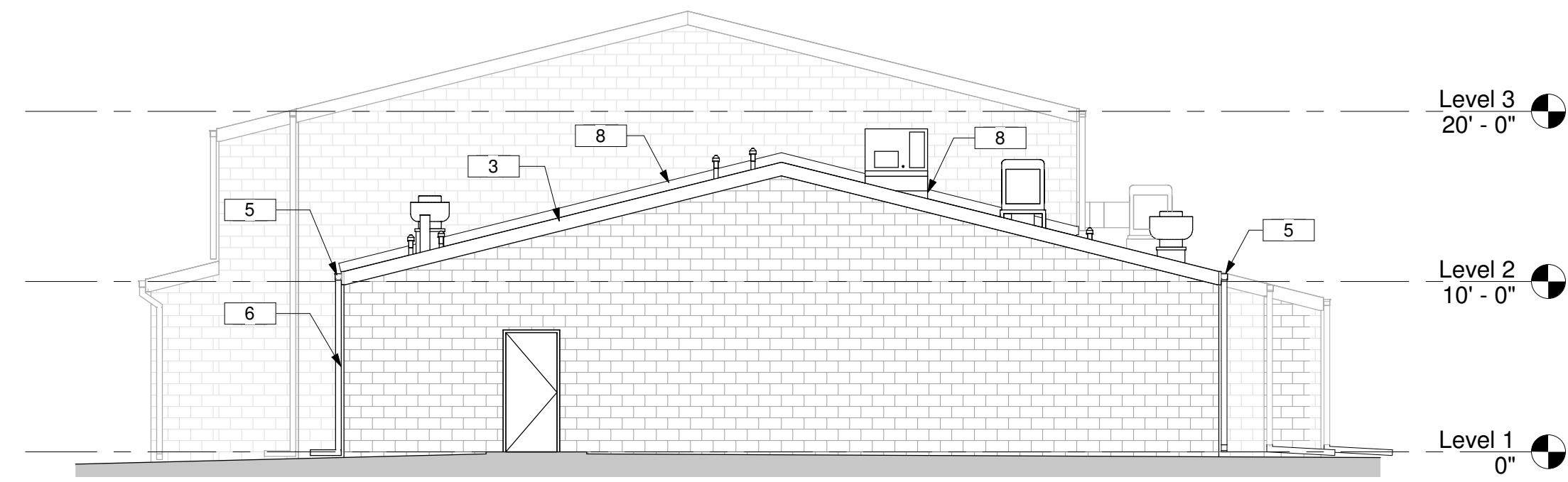
15 CRICKET AT CURB 3/4" = 1'-0" PVESA8\_1\_31A



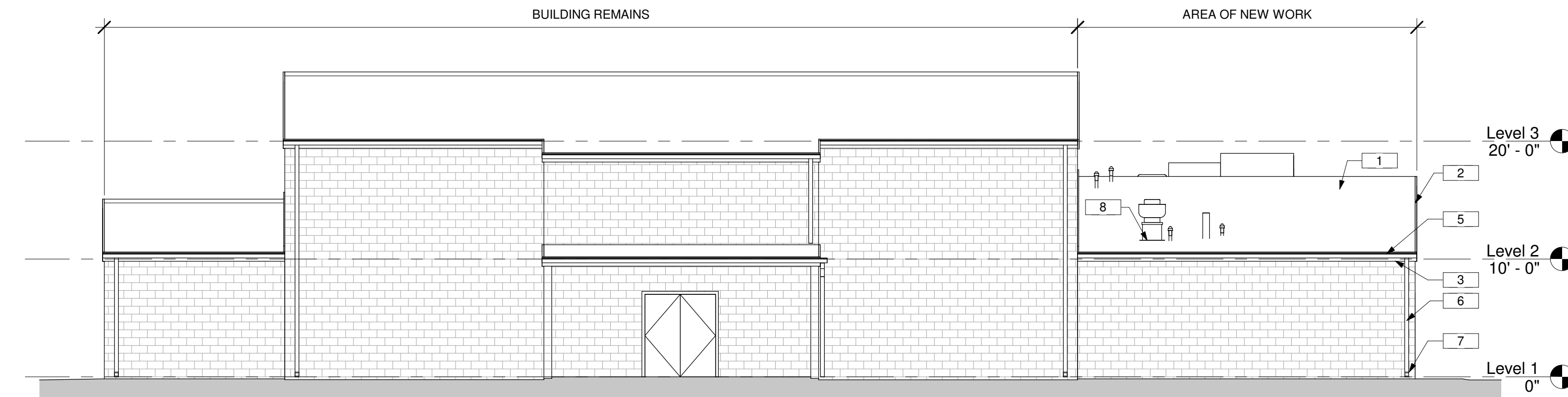
Revision	Revision Date
Project number	02052221-1009-014-BRG
Date	2/25/19
Drawn by	CW, KS
Checked by	BP
Sheet Size	ARCH D 24"x36"



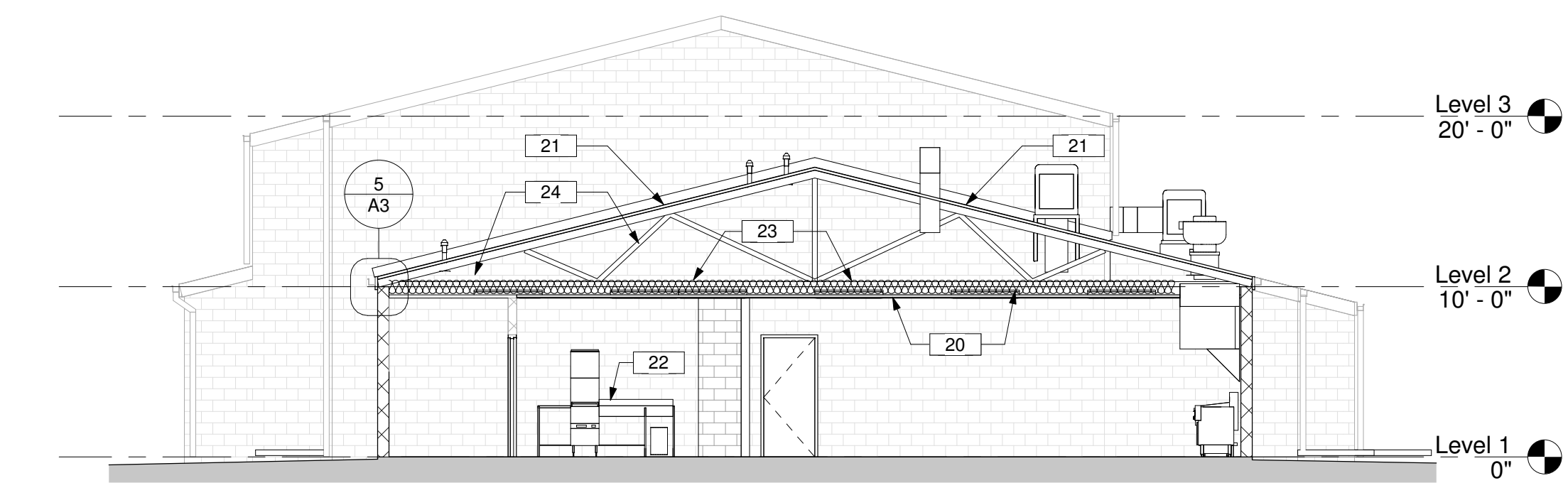
VALLEY UNION HIGH SCHOOL DISTRICT  
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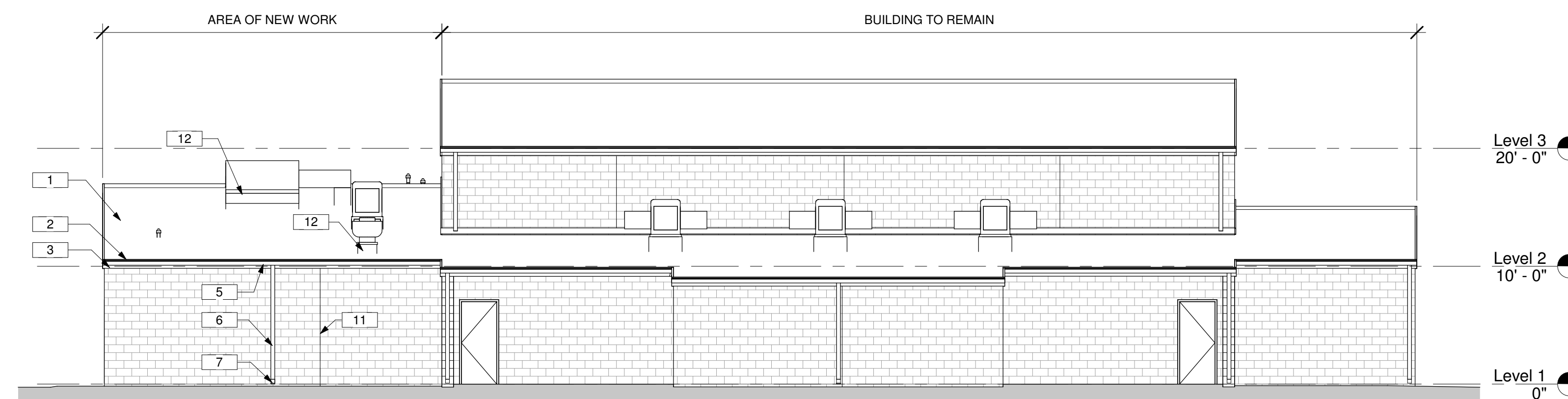
2 NORTH  
 1/8" = 1'-0"



1 EAST  
 1/8" = 1'-0"



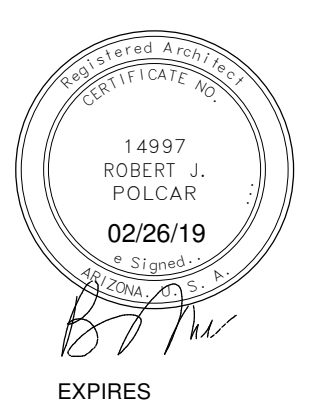
5 BUILDING SECTION  
 1/8" = 1'-0"



4 WEST  
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EXPIRES

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Date

02/26/19

Drawn by

CW

Checked by

BP

Sheet Size

ARCH D

Sheet Name

ELEVATIONS

A4

## STRUCTURAL NOTES:

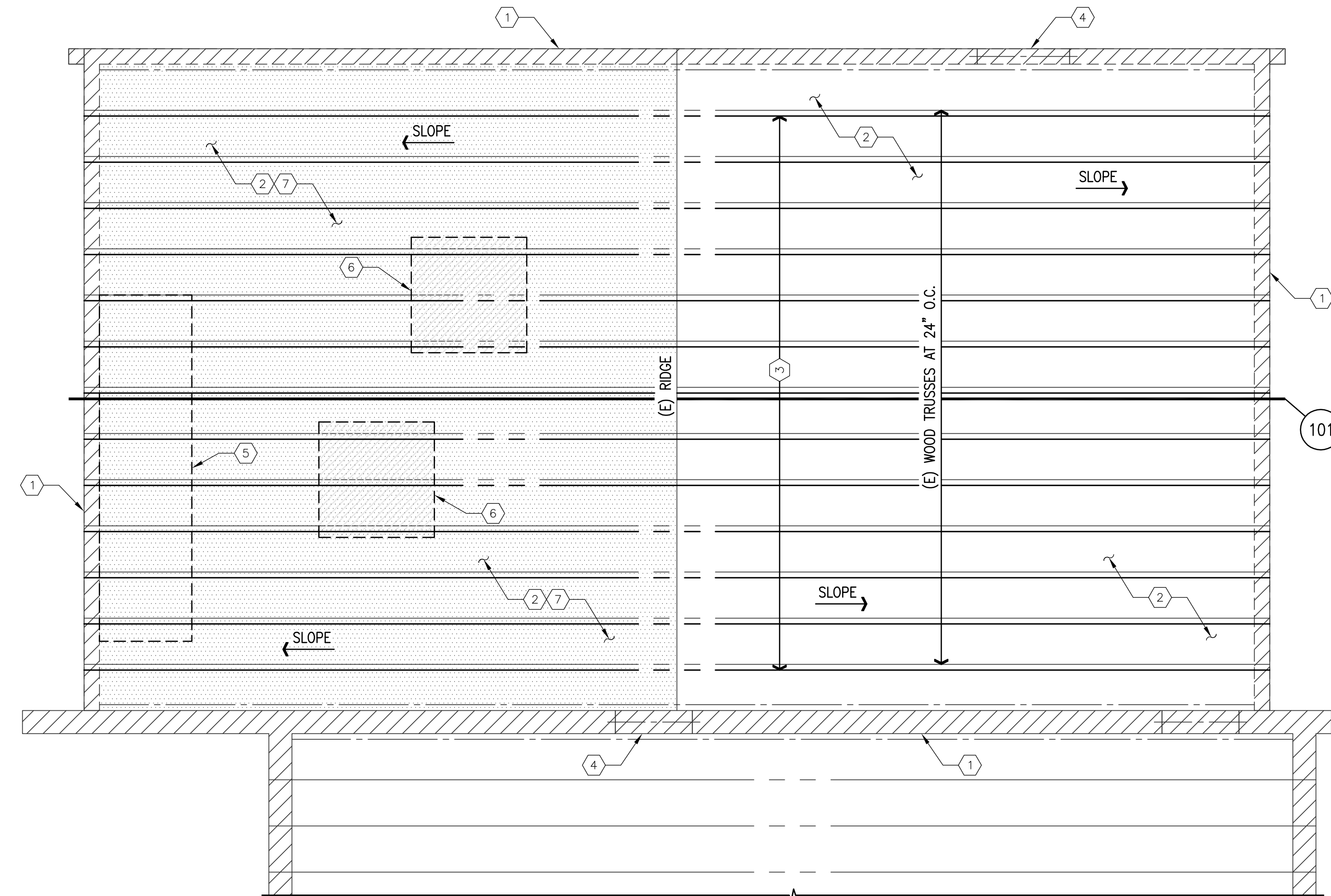
- DESIGN CRITERIA:
  - ALL CONSTRUCTION SHALL CONFORM TO THE 2012 EDITION OF THE INTERNATIONAL BUILDING CODE.
  - ROOF:
    - ROOF LIVE LOAD = 20 PSF (REDUCIBLE)
    - ROOF DEAD LOAD = 20 PSF
- DETAILS AND NOTES ON DRAWINGS SHALL TAKE PRECEDENCE OVER STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS WITH EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION.
- DETAILS MARKED "TYPICAL" MAY OR MAY NOT BE CUT ON PLANS, BUT SHALL APPLY UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT THE STRUCTURE DURING CONSTRUCTION, INCLUDING, BUT NOT LIMITED TO, SHORING, BRACING, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SHORING, BRACING, AND SCAFFOLDING. OBSERVATION VISITS OR SPECIAL INSPECTION TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS. THE STRUCTURAL ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SITE SAFETY, OR THE SAFETY PRECAUTIONS AND PROGRAMS.
- CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR FLOORS. THE LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.
- THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHOD OF CONSTRUCTION.
- ALL NAILS SHALL BE COMMON NAILS. ALL NAILING NOT NOTED SHALL BE ACCORDING TO THE FASTENING SCHEDULE IN TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE. SIZE AND NUMBER OF NAILS IN JOIST HANGERS AND MISCELLANEOUS FRAMING ANCHORS SHALL BE ACCORDING TO THE MANUFACTURER'S LATEST CATALOG.

## 9. MATERIALS SPECIFICATIONS:

- CHANNELS, PLATES, AND ANGLES - ASTM A36 (Fy = 36 KSI)
- BOLTS IN WOOD - ASTM A307
- BOLTS (STEEL/STEEL) - ASTM A325N. ALL HIGH-STRENGTH BOLTS SHALL BE TIGHTENED TO THE SNUG-TIGHT CONDITION AS DEFINED BY AISC UNLESS NOTED OTHERWISE
- FRAMING LUMBER - WPPA OR WCLIB STAMPED, 19% MAXIMUM MOISTURE CONTENT, DOUGLAS FIR-LARCH OF THE FOLLOWING GRADES:  
TYPICAL U.N.O. - #2
- PLYWOOD - APA STAMPED WITH AN EXTERIOR OR EXPOSURE 1 DURABILITY CLASSIFICATION NAILED WITH COMMON NAILS. APA RATED SHEATHING (I.E. WAFERBOARD AND ORIENTED STRAND BOARD) CONFORMING TO NER-108 AND WITH THE EQUIVALENT EXPOSURE DURABILITY CLASSIFICATION, THICKNESS AND SPAN INDEX RATIO MAY BE SUBSTITUTED FOR PLYWOOD. LAY-UP PLYWOOD WITH LONG DIMENSION PERPENDICULAR TO SUPPORTS AND STAGGER JOINTS. PROVIDE PLYCLIPS AT MIDSPAN OF UNSUPPORTED ROOF EDGES.

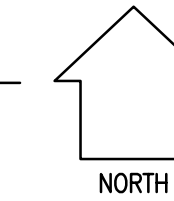
USE	THICKNESS	SPAN/INDEX RATIO	EDGE NAILING	FIELD NAILING
ROOF	19/32" (5/8)	32/16	10d AT 6" O.C.	10d AT 12" O.C.

- SPECIAL INSPECTIONS SHALL BE PERFORMED BY BRODERICK ENGINEERING, LLC OR A QUALIFIED INSPECTOR AS APPROVED BY THE BUILDING OFFICIAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A MINIMUM OF 24 HOURS NOTICE TO THE SPECIAL INSPECTOR AND THE TESTING LABORATORY PRIOR TO BEGINNING ANY WORK FOR WHICH SPECIAL INSPECTION OR TESTING IS REQUIRED. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE ENGINEER OR ARCHITECT OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE ENGINEER OR ARCHITECT OF RECORD AND THE BUILDING OFFICIAL. SPECIAL INSPECTION IS REQUIRED DURING THE FOLLOWING OPERATIONS PER IBC CHAPTER 17:
  - WOOD TRUSS STRENGTHENING - REVIEW OF WOOD TRUSS STRENGTHENING MEMBERS AND ATTACHMENT - PERIODIC.
  - WATER DAMAGED PLYWOOD REPLACEMENT - REVIEW OF NEW PLYWOOD ROOF SHEATHING AND ATTACHMENT - PERIODIC.
  - HIGH STRENGTH BOLTING: REVIEW OF ALL BOLT INSTALLATIONS TO ENSURE THAT THE PLIES OF THE CONNECTED ELEMENTS HAVE BEEN BROUGHT INTO SNUG CONTACT AND DURING BOLT INSTALLATIONS AND TIGHTENING OPERATIONS.



## KITCHEN FRAMING PLAN

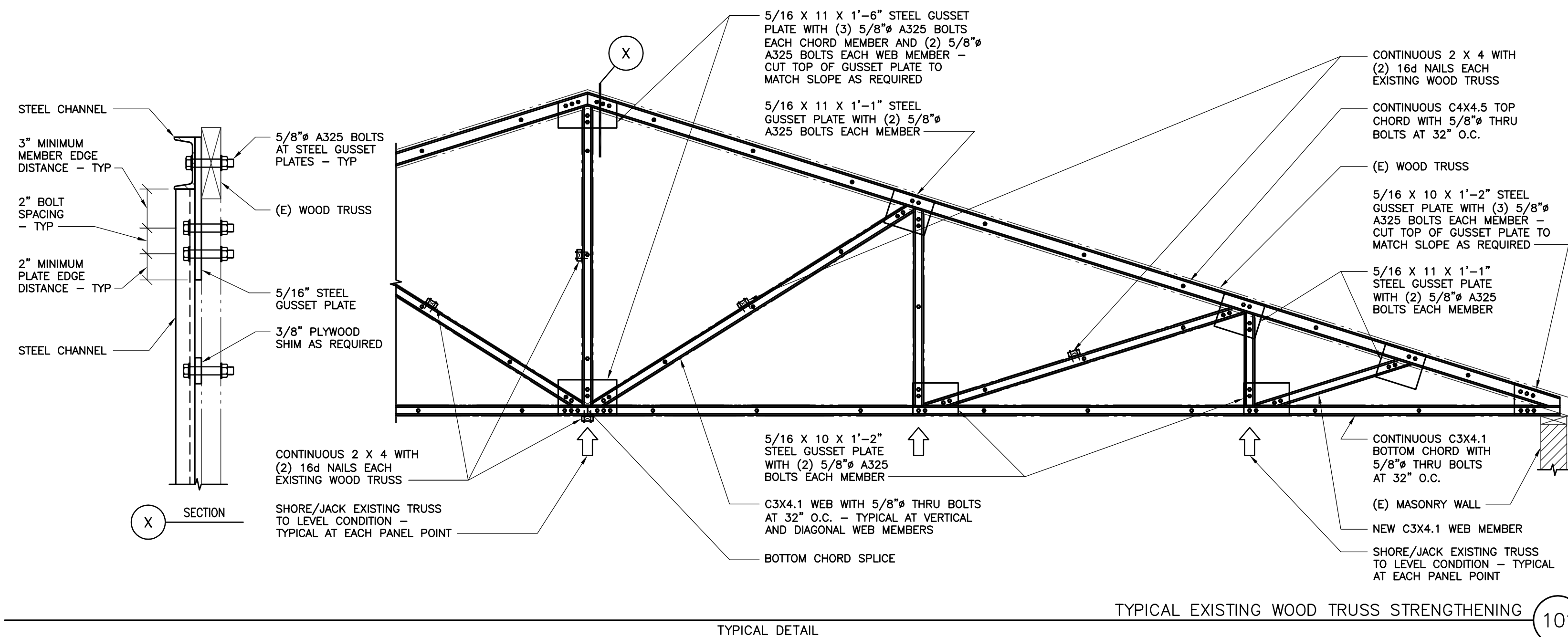
SCALE: 1/4"=1'-0"



NOTE:  
EVERY EFFORT HAS BEEN MADE TO DETERMINE AS-BUILT CONDITIONS PRIOR TO THIS PHASE OF CONSTRUCTION. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY AS-BUILT CONDITIONS AND NOTIFY THE ENGINEER OF RECORD IF IT IS DETERMINED THAT THE ACTUAL CONDITIONS VARY FROM WHAT IS NOTED AND REFERENCED ON THESE DRAWINGS.

## ROOF FRAMING PLAN NOTES

- INDICATES EXISTING MASONRY WALL TO REMAIN - TYPICAL.
- EXISTING PLYWOOD ROOF SHEATHING (NON-WATER DAMAGED) OVER WOOD TRUSSES TO REMAIN - TYPICAL.
- SHORE, JACK, AND STRENGTHEN EXISTING WOOD TRUSSES PER DETAIL 101 - TYPICAL.
- INDICATES EXISTING MASONRY LINTEL TO REMAIN - TYPICAL.
- EXISTING KITCHEN HOOD BELOW TO REMAIN - TYPICAL.
- EXISTING MECHANICAL UNIT TO REMAIN - TYPICAL.
- INDICATES REMOVE AND REPLACE WATER DAMAGED ROOF SHEATHING WITH 19/32" (5/8") PLYWOOD SHEATHING - TYPICAL. FOR LAYUP AND ATTACHMENT, SEE STRUCTURAL NOTES.



TYPICAL DETAIL

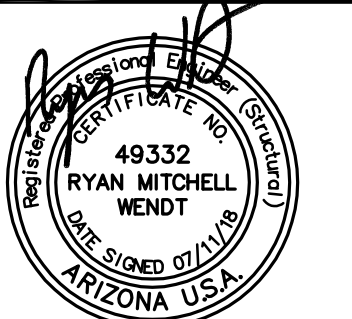
TYPICAL EXISTING WOOD TRUSS STRENGTHENING 101

## REVISIONS:

PROJECT NAME:  
**VALLEY UNION HIGH SCHOOL KITCHEN**

PROJECT ADDRESS:  
4088 W. JEFFERSON RD.  
ELFRIDA, ARIZONA 85610

JOB No.: 18077  
DRAWN: JG  
CHECKED: RMW  
SCALE: AS SHOWN  
DATE: 07.11.18



EXPIRES 3/31/2021

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**BRODERICK  
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LLC.**

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SHEET TITLE:  
**STRUCTURAL  
NOTES, PLAN  
AND DETAILS**

**S100**  
SHEET OF