

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

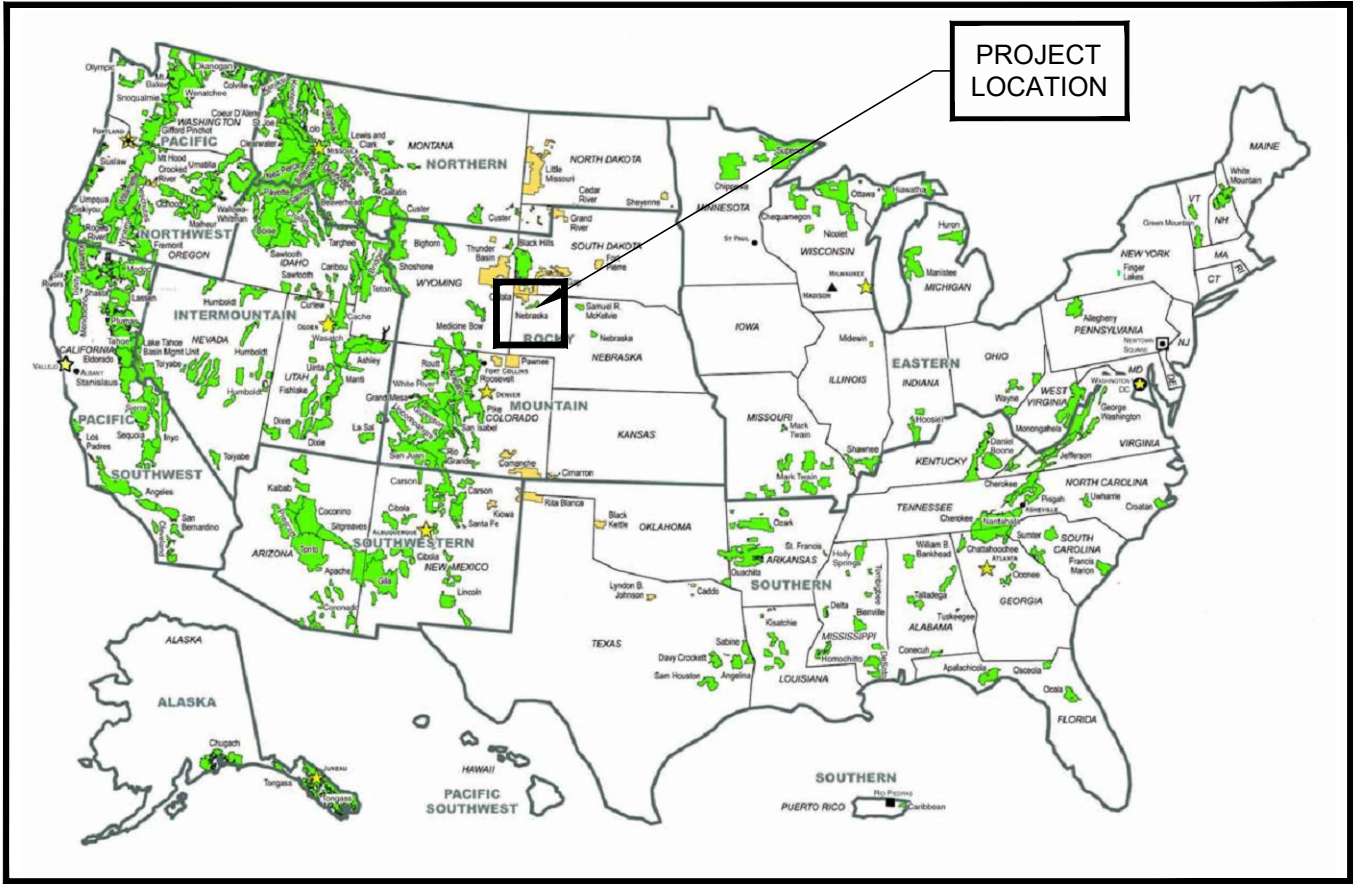
ROCKY MOUNTAIN REGION

NEBRASKA NATIONAL FOREST

PINE RIDGE JOB CORPS CENTER

DAWES COUNTY,
NEBRASKA

B290 ROOFING



U.S. LOCATION MAP

INDEX

SUB		TITLE OF SHEET	BUILDING
SHEET	SHEET		
1.	T1.0	TITLE SHEET	GENERAL
2.	G1.0	CAMPUS MAP	GENERAL
3.	A0.1	EXISTING CONDITIONS	B290-WELDING
4.	A0.2	PHOTOS	B290-WELDING
5.	A1.0	WELDING ROOF PLAN	B290- WELDING
6.	A1.1	WIND PRESSURE	B290-WELDING
7.	A1.2	DETAILS	B290-WELDING



UNITED STATES
DEPARTMENT OF AGRICULTURE
FOREST SERVICE

JOB CORPS
NATIONAL OFFICE

STAMPS, LOGOS, AND SEALS



3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

B290 ROOFING

PINE RIDGE JOB CORPS
CIVILIAN CONSERVATION
CENTER

DAWES COUNTY, NEBRASKA

DRAWING TITLE

TITLE SHEET

ARCHIVE NO.

DESIGNER
A. GARRISON, PE
CHECKED
D. VALLES, PE
DATE
05/2026

SUB SHEET NO.
T 1.0
SHEET
1 OF 7

PROJECT ADDRESS
15710 HIGHWAY 385,
CHADRON, NE 69337

PROJECT LOCATION
NO SCALE-COPYRIGHT GOOGLE



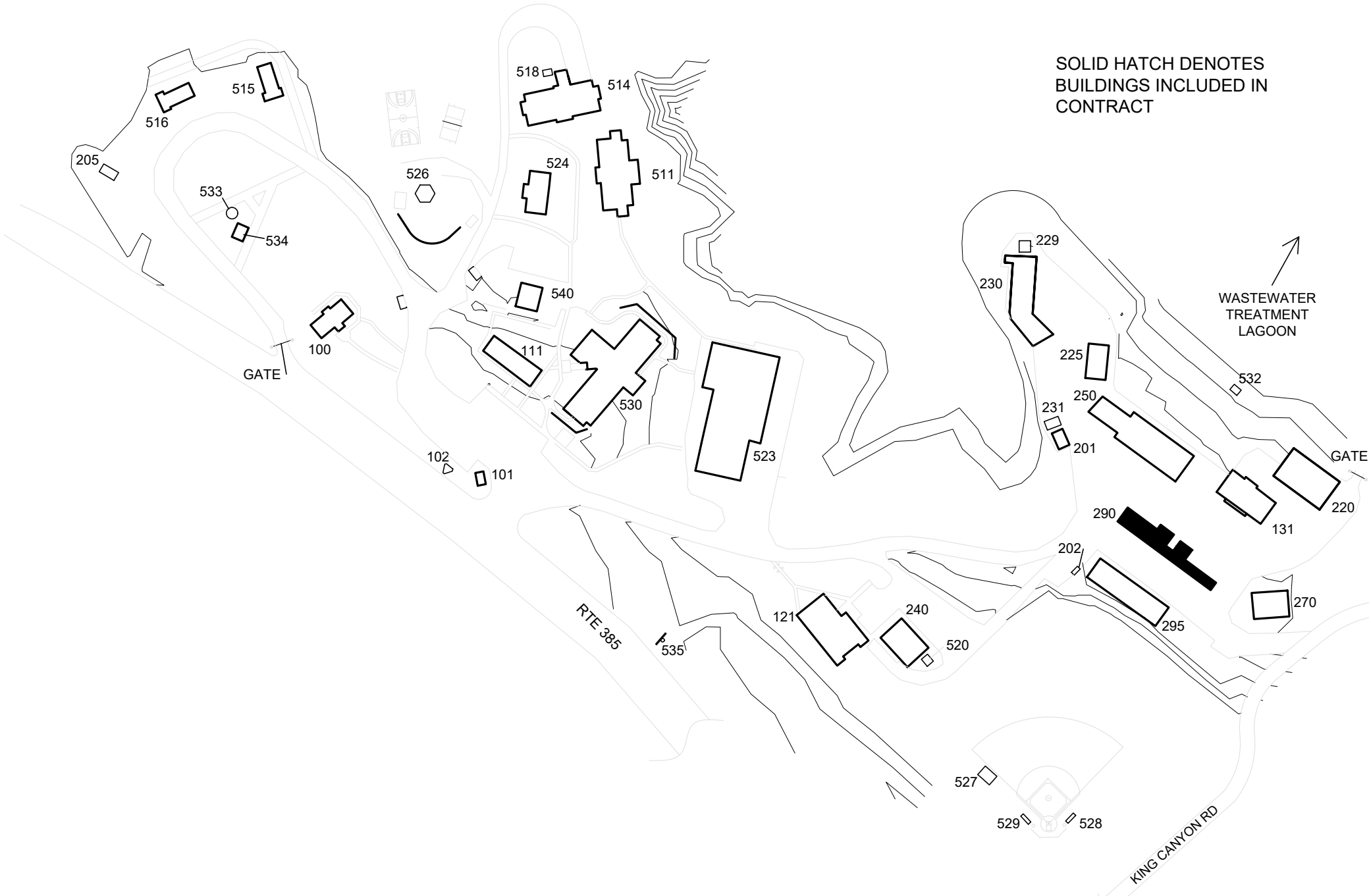
Pine Ridge Civilian Conservation Center
Chadron, Nebraska

BUILDINGS

- 100 - ADMINISTRATION
- 101 - GATEHOUSE
- 111 - HEALTH SERVICES
- 121 - DINING HALL
- 131 - WAREHOUSE/WAREHOUSING MATERIAL HANDLER
- 201 - FLAMMABLE STORAGE
- 220 - MAINTENANCE STORAGE
- 225 - CTT OFFICE
- 230 - MAINTENANCE/PAINTING
- 240 - HEALTH OCCUPATIONS TRAINING
- 250 - BRICK MASONRY/CARPENTRY
- 270 - CEMENT MASONRY SHOP
- 290 - WELDING SHOP/BUILDING CRAFTS
- 295 - VST STORAGE
- 511 - DORMITORY II & III
- 514 - DORMITORY I
- 515 - HONOR DORM (MALE)
- 516 - HONOR DORM (FEMALE)
- 523 - GYMNASIUM/EDUCATION
- 524 - ACTIVITY CENTER
- 530 - DORMITORY IV
- 534 - PUMP HOUSE
- 540 - LAUNDRY BUILDING

STRUCTURES

- 102 - SIGNHOUSE/FIRE CACHE
- 202 - GAS HOUSE
- 205 - FIRE CACHE
- 229 - PAINTING STRUCTURE
- 231 - VEHICLE STORAGE
- 271 - CEMENT MASONRY STORAGE
- 272 - CEMENT MASONRY STORAGE
- 517 - STUDENT GATHERING SHELTER
- 518 - GENERATOR BUILDING
- 520 - STUDENT SMOKE SHELTER
- 526 - GAZEBO
- 527 - BALL FIELD BOOTH
- 528 - RIGHT FIELD DUGOUT
- 529 - LEFT FIELD DUGOUT
- 532 - GENERATOR STORAGE
- 533 - WATER TOWER
- 535 - WIND TURBINE



Existing Site Plan



UNITED STATES
DEPARTMENT OF AGRICULTURE
FOREST SERVICE

JOB CORPS
NATIONAL OFFICE

STAMPS, LOGOS, AND SEALS



3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

B290 ROOFING

PINE RIDGE JOB CORPS
CIVILIAN CONSERVATION
CENTER

DAWES COUNTY, NEBRASKA

DRAWING TITLE

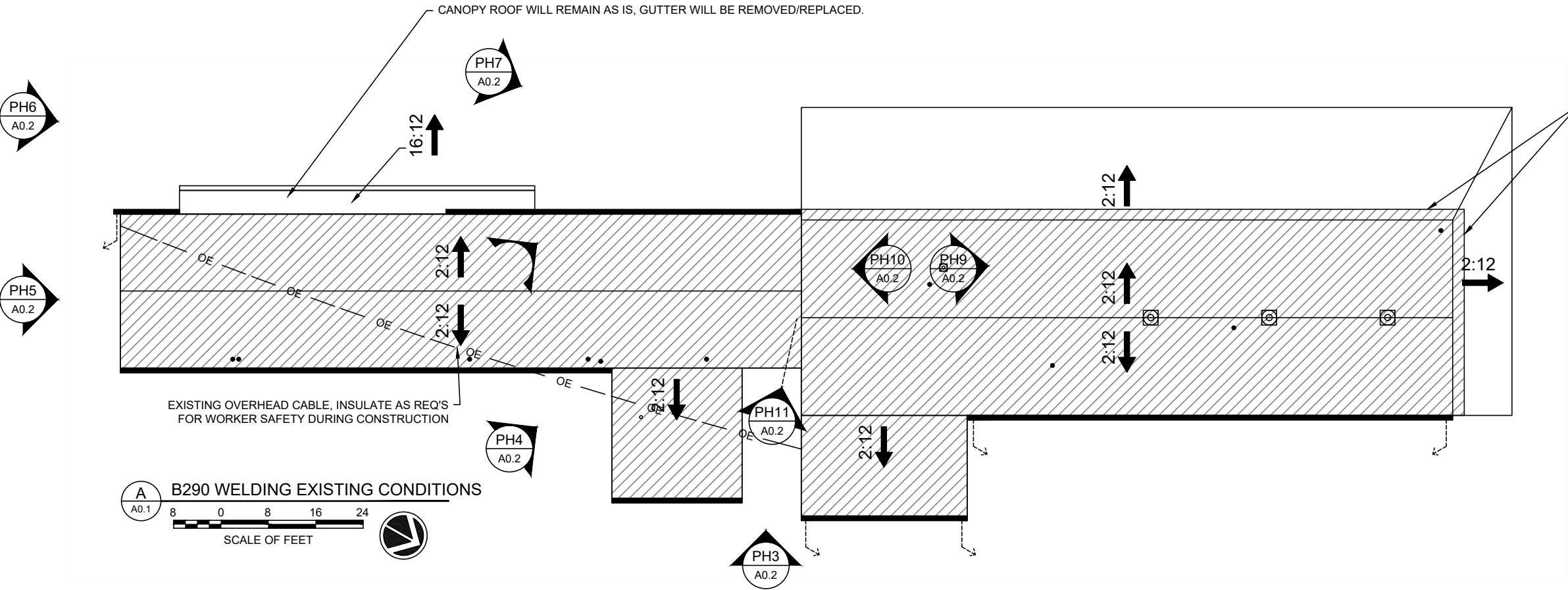
CAMPUS MAP

ARCHIVE NO.

DESIGNER
A. GARRISON, PE
CHECKED
D. VALLES, PE
DATE
05/2026

SUB SHEET NO.
G1.0
SHEET
2 OF 7

7/16/26 12:32 AGARRISON C:\USERS\AGARRISON\BOX\JCENG_PROJECTS\PINERIDGE\BDC290-WELDING\2026-ROOFINGREHAB\DWGS\PRD B290 ROOF DRAWINGS.DWG;



PH1
A0.1

EXISTING CONDITIONS

NO SCALE



PH2
A0.1

EXISTING CONDITIONS

NO SCALE

GENERAL NOTES

- EXISTING INFORMATION SHOWN ON DRAWINGS HAS BEEN TAKEN FROM LIMITED FIELD OBSERVATIONS. PHOTOS ARE INTENDED TO SHOW GENERAL EXISTING CONDITIONS AROUND THE AREAS FOR NEW WORK. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
- SCALES AND DIMENSIONS INDICATED ARE FOR GENERAL SCOPING ONLY, THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS FOR COORDINATION WITH MATERIAL, EQUIPMENT, AND SHOP DRAWING REQUIREMENTS.

SELECTIVE DEMO AND METAL RE-COVER NOTES

- HATCHED AREA: REMOVE AND DISPOSE OF EXISTING GUTTERS AND DOWNSPOUTS. PREPARE AREA FOR INSULATED PVC OVER-ROOF (METAL RETROFIT). PREPARATION FOR OVER-ROOFING INCLUDES:
- EXISTING ROOF FRAMING, METAL ROOF PROFILE, AND CONSTRUCTION VARIES - CONTRACTOR SHALL THOROUGHLY INVESTIGATE EXISTING CONDITIONS AND INCORPORATE VARYING CONSTRUCTION INTO SHOP DRAWINGS AND MANUFACTURER CALCULATIONS.
 - PERFORM FASTENER PULLOUT TESTS.
 - MAKE CORRECTIVE ACTIONS AS REQUIRED TO ENSURE EXISTING METAL ROOF IS CLEAN, SMOOTH, AND FREE OF SHARP EDGES AND LOOSE FOREIGN MATERIAL, SECURE ANY BENT/UPLIFTED ROOF PANELS OR FASTENERS TO PREPARE FOR OVER-ROOFING.
 - REMOVE ANY TRIMS AND RIDGE CAPS THAT WILL NOT BE USED FOR NEW ROOF SYSTEM.
 - PROVIDE TEMPORARY WEATHER PROTECTION AS REQUIRED UNTIL NEW ROOF SYSTEM IS INSTALLED OR ONLY DEMO AREAS THAT WILL BE RE-ROOFED IN THE SAME DAY.
 - REMOVE ROOFTOP FANS AND PROTECT FOR REINSTALLATION AFTER INSTALLATION OF NEW CURBS OR EXTENSIONS TO PROVIDE CLEARANCE ABOVE NEW ROOFING SYSTEM.
 - EXTEND OR PROVIDE NEW ROOF CURBS FOR VENTILATION FANS, AND OTHER PENETRATIONS TO PROVIDE A MINIMUM OF 8" CLEARANCE ABOVE NEW ROOF SYSTEM, INCLUDE ANY REQUIRED EXTENSION OF ELECTRICAL BRANCH CIRCUIT, DUCTS, AND SIMILAR COORDINATION WORK.
 - EXTEND PLUMBING VENTS TO MINIMUM OF 24" ABOVE NEW ROOF SYSTEM.
 - EXTEND GAS BURNING APPLIANCE VENTS AT LEAST 24" ABOVE NEW ROOF SYSTEM.



UNITED STATES
DEPARTMENT OF AGRICULTURE

FOREST SERVICE

JOB CORPS
NATIONAL OFFICE

STAMPS, LOGOS, AND SEALS



3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

B290 ROOFING

**PINE RIDGE JOB CORPS
CIVILIAN CONSERVATION
CENTER**

DAWES COUNTY, NEBRASKA

DRAWING TITLE

EXISTING CONDITIONS

ARCHIVE NO.

DESIGNER A. GARRISON, PE	SUB SHEET NO. A0.1
CHECKED D. VALLES, PE	
DATE 05/2026	SHEET 3 OF 7

7/16/26 12:32 AGARRISON C:\USERS\AGARRISON\BOX\JCENG_PROJECTS\PINERIDGE\BLOG290-WELDING\2026-ROOFINGREHAB\DWGS\PRD B290 ROOF DRAWINGS.DWG;



PH3 EXISTING CONDITIONS
A0.2 NO SCALE



PH4 EXISTING CONDITIONS
A0.2 NO SCALE



PH5 EXISTING CONDITIONS
A0.2 NO SCALE



PH6 EXISTING CONDITIONS
A0.2 NO SCALE



PH7 EXISTING CONDITIONS
A0.2 NO SCALE



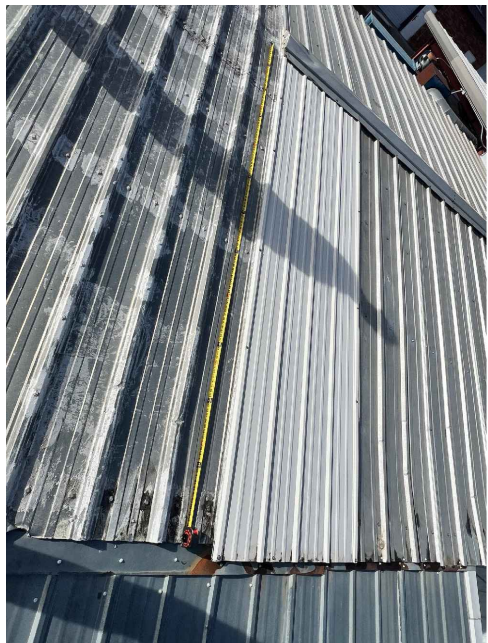
PH8 EXISTING CONDITIONS
A0.2 NO SCALE



PH9 EXISTING CONDITIONS
A0.2 NO SCALE



PH10 EXISTING CONDITIONS
A0.2 NO SCALE



PH11 EXISTING CONDITIONS
A0.2 NO SCALE



UNITED STATES
DEPARTMENT OF AGRICULTURE
FOREST SERVICE

JOB CORPS
NATIONAL OFFICE

STAMPS, LOGOS, AND SEALS



3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

B290 ROOFING

**PINE RIDGE JOB CORPS
CIVILIAN CONSERVATION
CENTER**

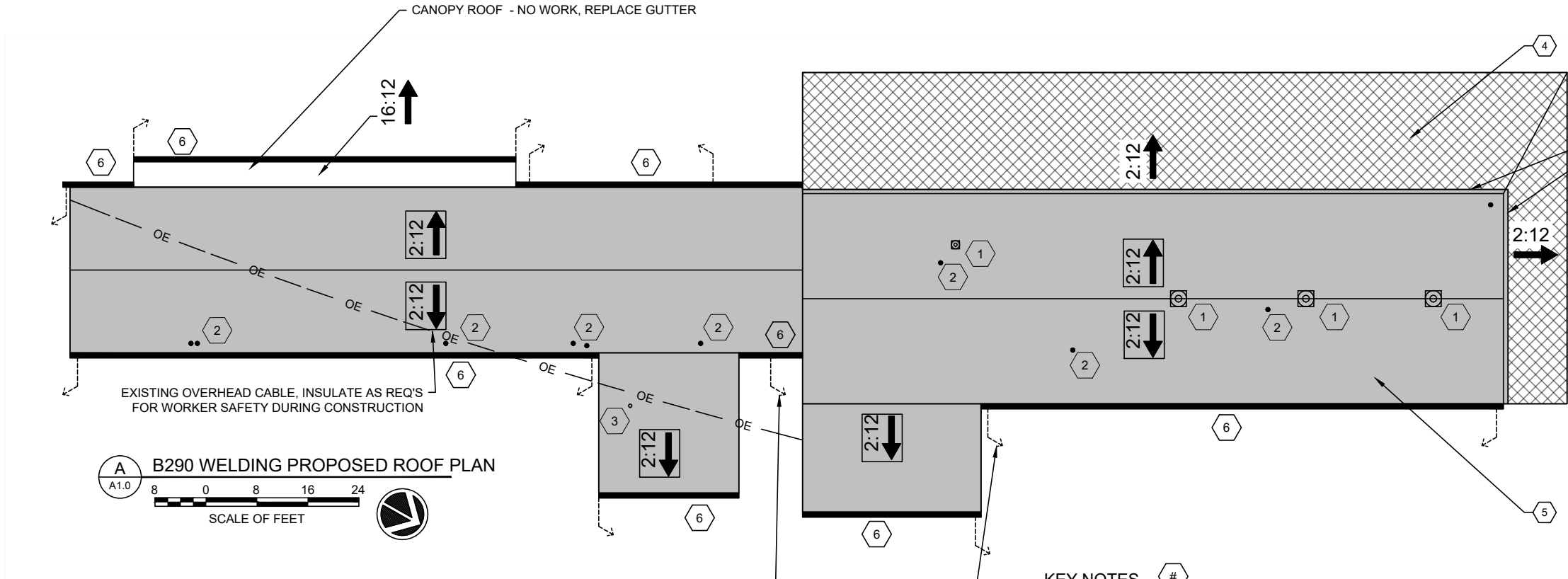
DAWES COUNTY, NEBRASKA

DRAWING TITLE

PHOTOS

ARCHIVE NO.	
DESIGNER A. GARRISON, PE	SUB SHEET NO. A0.2
CHECKED D. VALLES, PE	
DATE 05/2026	SHEET 4 OF 7

7/16/26 12:32 AGARRISON C:\USERS\AGARRISON\BOX\JCENG_PROJECTS\PINERIDGE\BDC290-WELDING\2026-ROOFINGREHAB\DWGS\PRD B290 ROOF DRAWINGS.DWG;



ROOF PLAN SYMBOLS LEGEND

- 
- ROOF SYSTEM OVER SLOPED STRUCTURE
-
- 
- PROPOSED ROOF GUTTERS
-
- 
- PROPOSED GUTTER DOWNSPOUT

GENERAL NOTES

- EXISTING INFORMATION SHOWN ON DRAWINGS HAS BEEN TAKEN FROM LIMITED FIELD OBSERVATIONS. PHOTOS ARE INTENDED TO SHOW GENERAL EXISTING CONDITIONS AROUND THE AREAS FOR NEW WORK. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
- SCALES AND DIMENSIONS INDICATED ARE FOR GENERAL SCOPING ONLY, THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS FOR COORDINATION WITH MATERIAL, EQUIPMENT, AND SHOP DRAWING REQUIREMENTS.

BUILDING INFORMATION AND ENVIRONMENTAL LOADS

- OCCUPANCY CLASS: FACTORY/INDUSTRIAL
- SITE ELEVATION: 4,000'.
- SIZE: 5,845 GSF INTERIOR, APPROX:7,800 SF HORIZONTAL ROOF AREA TO BE RECOVERED (EXCLUDES ENTRANCE CANOPY AND COVERED EXTERIOR STORAGE).
- YEAR CONSTRUCTED: 1967
- FLOORS: 1
- CONSTRUCTION TYPE: 2
- IBC RISK CATEGORY: II (2)
- ROOF ASSEMBLY FIRE RATING: A, B, OR C (BASIS OF DESIGN SYSTEM IS CLASS C)
- BASIC WIND SPEED: 111 MPH
 - EXPOSURE CATEGORY: C
- GROUND SNOW LOAD: 40 PSF, ~20" DEPTH.
- ICE: 0.35 INCH
- RAIN:
 - 15 MINUTE INTENSITY: 6.4 INCH/HOUR

KEY NOTES

- 1

ROOFTOP FAN/VENTILATOR (TYPICAL), FIELD VERIFY CURB SIZE AND PROVIDE CURB EXTENSION TO PROVIDE 8" ABOVE NEW ROOF SYSTEM. EXTEND INNER DUCT, WIRE, CONDUIT, ETC AS REQUIRED TO ACCOMMODATE EXTENSION. FIELD VERIFY QUANTITY OF FAN/VENTILATORS. CURB EXTENSIONS SHALL BE INSULATED. FLASH AND SEAL IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.
- 2

GAS-BURNING APPLIANCE VENTS (TYPICAL), FIELD VERIFY SIZE AND TYPE, EXTEND GAS-BURNING APPLIANCE VENTS TO 24" ABOVE NEW ROOF SYSTEM. MAINTAIN CLEARANCE TO COMBUSTIBLES PER VENT MANUFACTURER REQUIREMENTS. REINSTALL OR REPLACE FLASHING, STORM COLLAR, AND TERMINAL/RAIN CAP AS REQUIRED TO COMPLY WITH VENT AND ROOFING SYSTEM MANUFACTURERS' REQUIREMENTS AND APPROVED SHOP DRAWINGS.
- 3

PLUMBING VENT TYPICAL. FIELD VERIFY SIZE AND TYPE, AND EXTEND TO A MINIMUM HEIGHT OF 24" ABOVE NEW ROOF SYSTEM. FIELD VERIFY QUANTITY OF PLUMBING VENTS. FURNISH PIPE FLASHING PER ROOF SYSTEM MANUFACTURER INSTALLATION SHOP DRAWINGS.
- 4

X-HATCHED AREA, EXISTING ROOF OVER OPEN STORAGE - NO WORK.
- 5

SOLID HATCHED ROOF AREAS: FURNISH AND INSTALL METAL RETROFIT PVC OVER-ROOF SYSTEM INCLUSIVE OF ALL REQUIRED PRODUCTS AND MATERIALS WITH A 20-YEAR NO-DOLLAR-LIMIT 15-YEAR CONSEQUENTIAL +5-YEAR MATERIAL AND LABOR MANUFACTURER WARRANTY.

BASIS OF DESIGN SYSTEM: DUROLAST METAL RETROFIT, MECHANICALLY FASTENED PVC MEMBRANE & INSULATION.
 - EXISTING METAL ROOF.
 - FLUTE FILL: POLYISOCYANURATE, DURO-GUARD ISO - CONTRACTOR TO VERIFY METAL ROOF PROFILE(S) FOR FLUTE FILL REQUIRED DIMENSIONS.
 - CONTINUOUS INSULATION: POLYISOCYANURATE, DURO-GUARD ISO II-H, 2-LAYERS 1.5" EACH (3") THICKNESS.
 - ROOF MEMBRANE: DURO-TUFF (PVC), 60-MIL.
 - ALL REQUIRED FLASHING, FASTENERS, SEALANTS, AND ACCESSORIES FOR FULLY WEATHERTIGHT ROOF SYSTEM INSTALLATION.
 - PROVIDE MANUFACTURER INSPECTION OF ROOF IN PROGRESS OR AT COMPLETION AND ANY MANUFACTURER REQUIRED CORRECTIONS FOR SPECIFIED WARRANTY.
- 6

REPLACE GUTTER AND DOWNSPOUTS ALL AREAS INDICATED. FIT TIGHT TO WALLS USING ELBOWS AND SUPPORTS. DIRECT FLOW AWAY FROM BUILDING, OMIT EXTENSIONS WHERE GUTTER TERMINATE INTO PAVED DRIVEWAYS OR PARKING AREAS. FIELD LOCATE COMPONENTS TO AVOID BLOCKING WALKS, DOORS, WINDOWS, ELECTRICAL DEVICES, AND SIMILAR EXISTING CONSTRUCTION REQUIRING ACCESS OR WORKING SPACES.

GUTTER AND SNOW GUARD SCHEDULE

ITEM	MATERIAL	THICKNESS (INCHES)	DESCRIPTION	ACCESSORIES
ROOF GUTTER	ALUMINUM	0.032	4"X4" BOX STYLE GUTTERS, COLOR AS SELECTED BY COR.	HANGERS, END CAPS, OUTLETS, WEDGES.
GUTTER DOWNSPOUTS	ALUMINUM	0.032	2"X3" CORRUGATED OR PLAIN RECTANGULAR, HEAVY DUTY, COLOR MATCHED TO GUTTERS.	ATTACHMENTS, ELBOWS, AND EXTENSIONS FOR DOWNSPOUTS DISCHARGING TO GRADE



UNITED STATES
DEPARTMENT OF AGRICULTURE
FOREST SERVICE

JOB CORPS
NATIONAL OFFICE

STAMPS, LOGOS, AND SEALS



3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

B290 ROOFING

PINE RIDGE JOB CORPS
CIVILIAN CONSERVATION
CENTER

DAWES COUNTY, NEBRASKA

DRAWING TITLE

WELDING ROOF PLAN

ARCHIVE NO.

DESIGNER
A. GARRISON, PE

SUB SHEET NO.

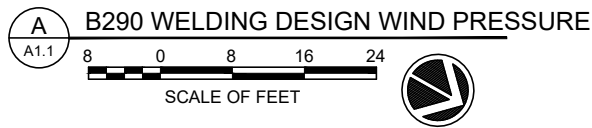
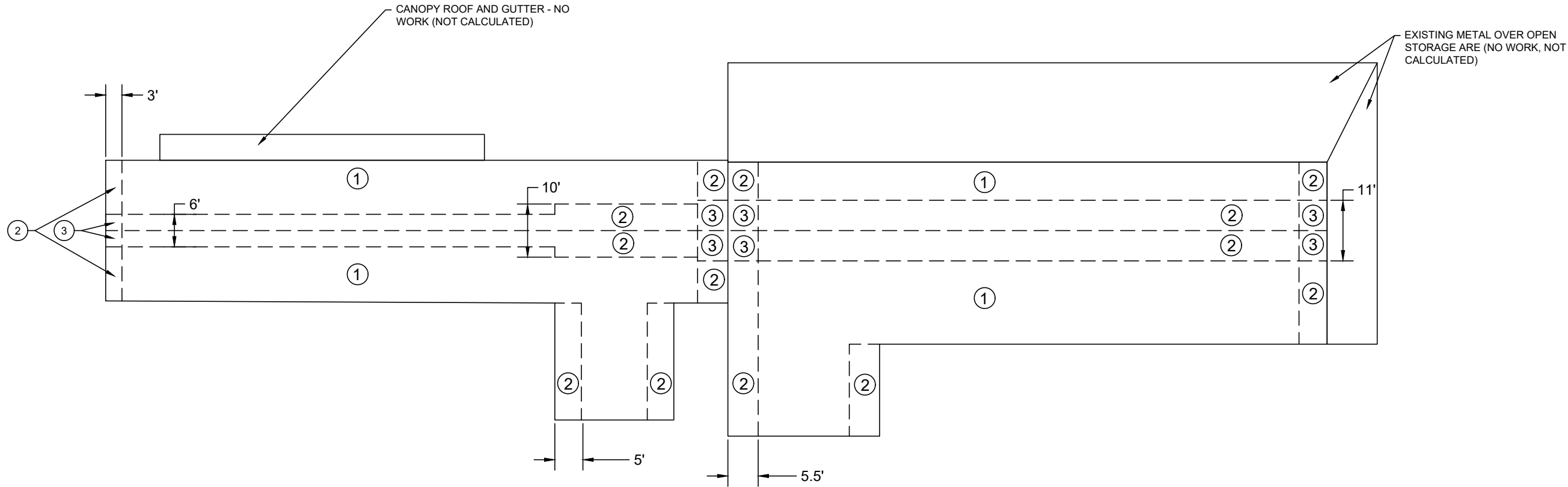
CHECKED
D. VALLES, PE

A1.0

DATE
05/2026

SHEET
5 OF 7

7/16/26 12:32 AGARRISON C:\USERS\AGARRISON\BOX\JCENG_PROJECTS\PINERIDGE\BLDG290-WELDING\2026-ROOFINGREHAB\DWGS\PRD B290 ROOF DRAWINGS.DWG;



WIND PRESSURE BY ZONE, P_{ASD} (PSF)

ZONE #	P_{ULT} (PSF)	P_{ASD} (PSF)
1	-43.7	-26.2
2	-57.8	-34.7
3	-75.8	-45.5

WIND LOADS: COMPONENTS AND CLADDING PRESSURE ZONES X

- WIND LOADS WERE CALCULATED IN ACCORDANCE WITH ASCE 7-22 CHAPTERS 26-30 AND ARE PROVIDED FOR GENERAL SCOPING ONLY.
- ADJOINING AREAS NOT BEING MODIFIED WERE NOT CALCULATED.
- CONTRACTOR SHALL PERFORM FASTENER PULLOUT TESTING IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
- CONTRACTOR SHALL VERIFY BUILDING INFORMATION AND PROVIDE ROOFING SYSTEM MANUFACTURER WIND PRESSURE CALCULATIONS AND COORDINATE REQUIRED FASTENERS AND FASTENER SPACING WITH MANUFACTURER'S CALCULATIONS AND PULLOUT TESTING.

BUILDING INFORMATION AND ENVIRONMENTAL LOADS

- OCCUPANCY CLASS: FACTORY/INDUSTRIAL
- SITE ELEVATION: 4,000'.
- SIZE: 5,845 GSF INTERIOR, APPROX:7,800 SF HORIZONTAL ROOF AREA TO BE RECOVERED (EXCLUDES ENTRANCE CANOPY AND COVERED EXTERIOR STORAGE).
- YEAR CONSTRUCTED: 1967
- FLOORS: 1
- CONSTRUCTION TYPE: 2
- IBC RISK CATEGORY: II (2)
- ROOF ASSEMBLY FIRE RATING: A, B, OR C (BASIS OF DESIGN SYSTEM IS CLASS C)
- BASIC WIND SPEED: 111 MPH
 - EXPOSURE CATEGORY: C
- GROUND SNOW LOAD: 40 PSF, 20" DEPTH.
- ICE: 0.35 INCH
- RAIN:
 - 15 MINUTE INTENSITY: 6.4 INCH/HOUR



UNITED STATES
DEPARTMENT OF AGRICULTURE
FOREST SERVICE

JOB CORPS
NATIONAL OFFICE

STAMPS, LOGOS, AND SEALS



3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

B290 ROOFING

**PINE RIDGE JOB CORPS
CIVILIAN CONSERVATION
CENTER**

DAWES COUNTY, NEBRASKA

DRAWING TITLE

WIND PRESSURE

ARCHIVE NO.

DESIGNER

A. GARRISON, PE

CHECKED

D. VALLES, PE

DATE

05/2026

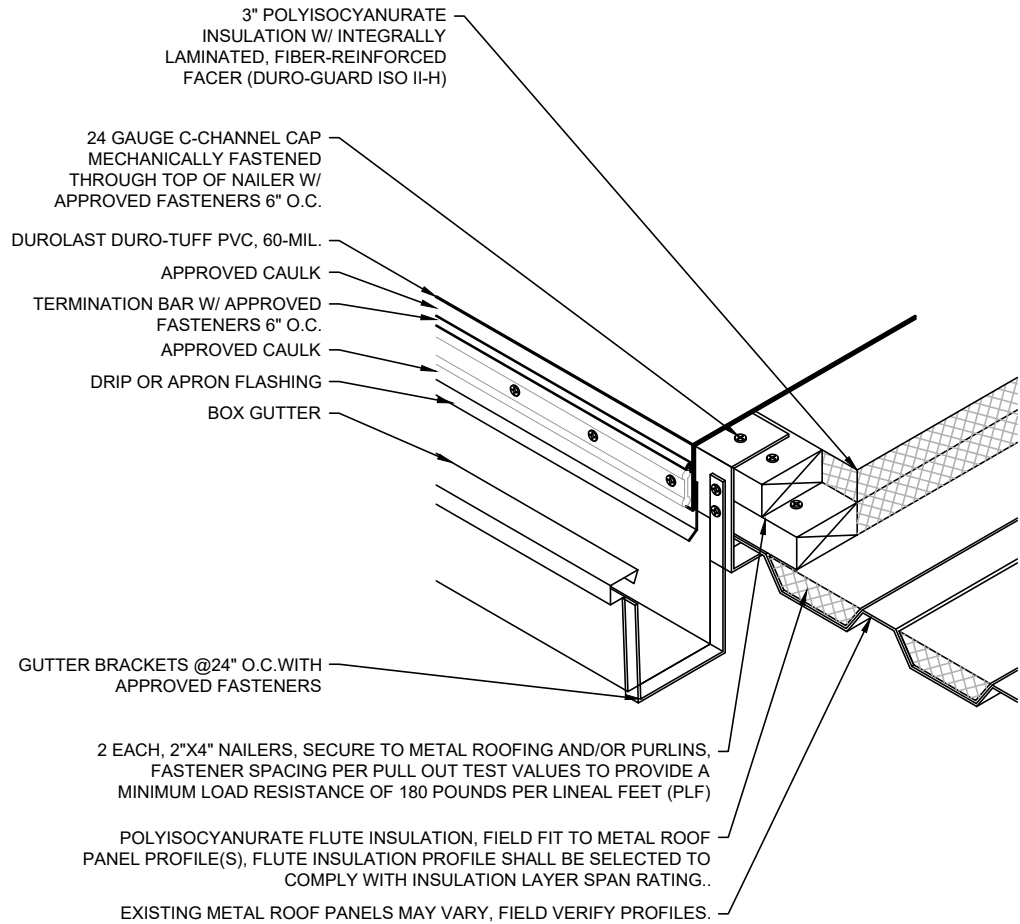
SUB SHEET NO.

A1.1

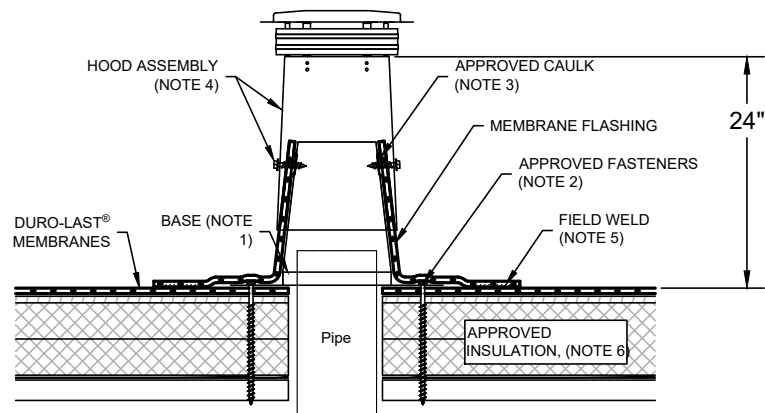
SHEET

6 OF 7

7/16/26 12:32 AGARRISON C:\USERS\AGARRISON\BOX\JCENG_PROJECTS\PINERIDGE\BDC290-WELDING\2026-ROOFINGREHAB\DWGS\PRD B290 ROOF DRAWINGS.DWG;

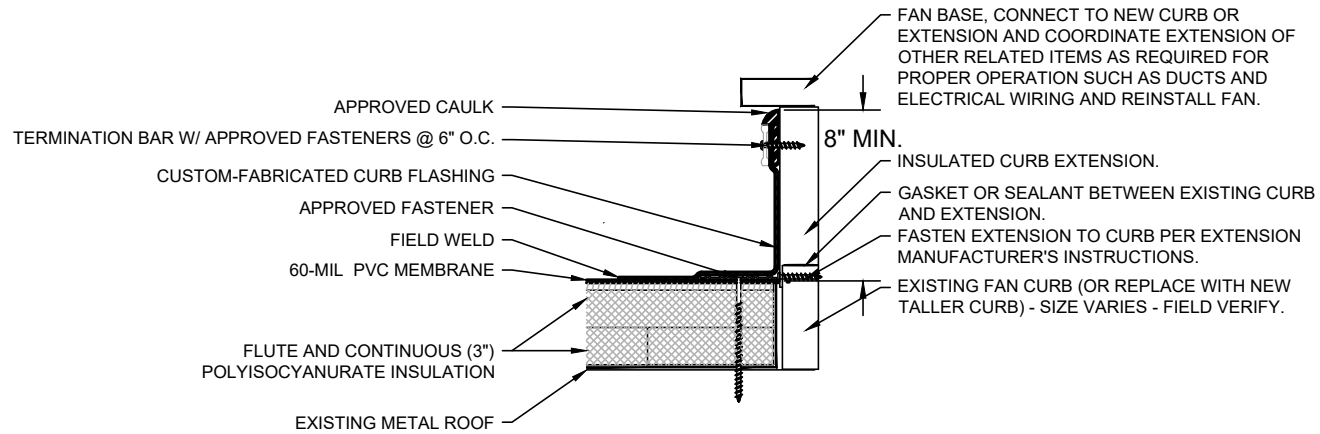


A
A1.2 **EDGE TERMINATION, GUTTER ATTACHMENT, AND BASIS OF DESIGN ROOF ASSEMBLY**
NO SCALE

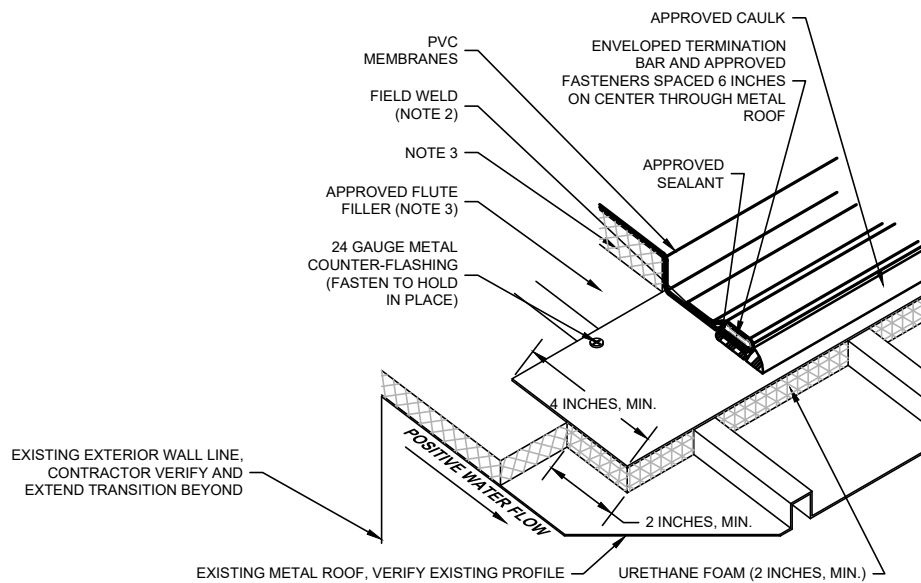


- NOTE 1: PLACE THE APPROPRIATELY SIZED GALVANIZED BASE OVER THE PIPE IN THE ROOF DECK, PER APPLICABLE CODES.
- NOTE 2: FASTEN THE BASE TO THE DECK USING FOUR APPROVED FASTENERS, 1-1/2 IN. (38 MM) FROM EACH OUTSIDE CORNER AND PENETRATING AT LEAST 1 IN. (25 MM) INTO THE DECK.
- NOTE 3: APPLY CAULK BETWEEN THE BASE AND FLASHING WITHIN 1 IN. (25 MM) OF THE TOP OF THE FLASHING.
- NOTE 4: PLACE THE HOOD ASSEMBLY OVER THE FLASHING AND BASE. SECURE WITH A MINIMUM OF TWO APPROVED FASTENERS DIRECTLY THROUGH THE CAULK LINE. **THE SCREWS MUST PENETRATE THE BASE BY A MINIMUM OF 1/2 IN. (13 MM).**
- NOTE 5: ALL FIELD WELDS MUST BE A MINIMUM OF 1-1/2 IN. (40 MM) WIDE.
- NOTE 6: 3" POLYISOCYANURATE.

C
A1.2 **GAS APPLIANCE VENT DETAIL**
NO SCALE



B
A1.2 **RECTANGULAR PENETRATION (TYPICAL)**
NO SCALE



- Note 1: THE MINIMUM SLOPE REQUIREMENT FOR THIS DETAIL IS 1 INCH PER 12 INCHES.**
- Note 2: ALL FIELD WELDS SHALL BE A MINIMUM OF 1-1/2 INCHES WIDE.
- Note 3: REFER TO A/A1.2 FOR INSULATION REQUIREMENT, VERIFY WITH MANUFACTURER IF WOOD NAILERS ARE REQUIRED IN THIS LOCATION FOR WIND UPLIFT.

D
A1.2 **NEW ROOF TO EXISTING METAL TRANSITION DETAIL**
NO SCALE

DETAIL NOTES

- TYPICAL DETAILS ARE INCLUDED TO REFLECT DESIGN INTENT AND ARE SUBJECT TO COMPLIANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS AND FIELD VERIFICATION OF EXISTING CONDITIONS. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR PROPOSED MODIFICATION TO TYPICAL DETAILS AS REQUIRED TO COORDINATE WITH FIELD VERIFIED CONDITIONS AND INSTALLATION INSTRUCTIONS.



UNITED STATES
DEPARTMENT OF AGRICULTURE
FOREST SERVICE

JOB CORPS
NATIONAL OFFICE

STAMPS, LOGOS, AND SEALS



3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

B290 ROOFING

**PINE RIDGE JOB CORPS
CIVILIAN CONSERVATION
CENTER**

DAWES COUNTY, NEBRASKA

DRAWING TITLE

DETAILS

ARCHIVE NO.

DESIGNER A. GARRISON, PE	SUB SHEET NO. A1.2
CHECKED D. VALLES, PE	
DATE 05/2026	SHEET 7 OF 7