

## City of Laramie

Planning Division  
P.O. Box C  
Laramie, WY 82073

Planning: (307) 721-5207  
Fax: (307) 721-5248

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### Request for Quote

Project: Wayfinding Signs  
Date Posted: March 10, 2023

The City of Laramie is soliciting quotes for the installation of 5 wayfinding signs. The engineering drawings are attached for the 3 different designs. We are looking to have a pole system with a higher level of design—but would like bids to include different pole materials options; preferably with a low, medium, and high cost option. The poles will need to be of the “breakaway” type as specified in the drawings. Each sign has an L bracket on the back for mounting. Permits for these sign locations have already been obtained for WYDOT where needed.

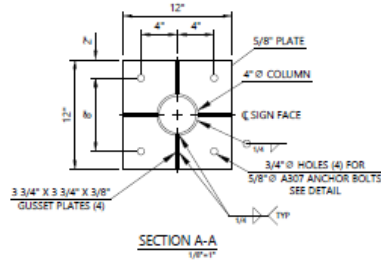
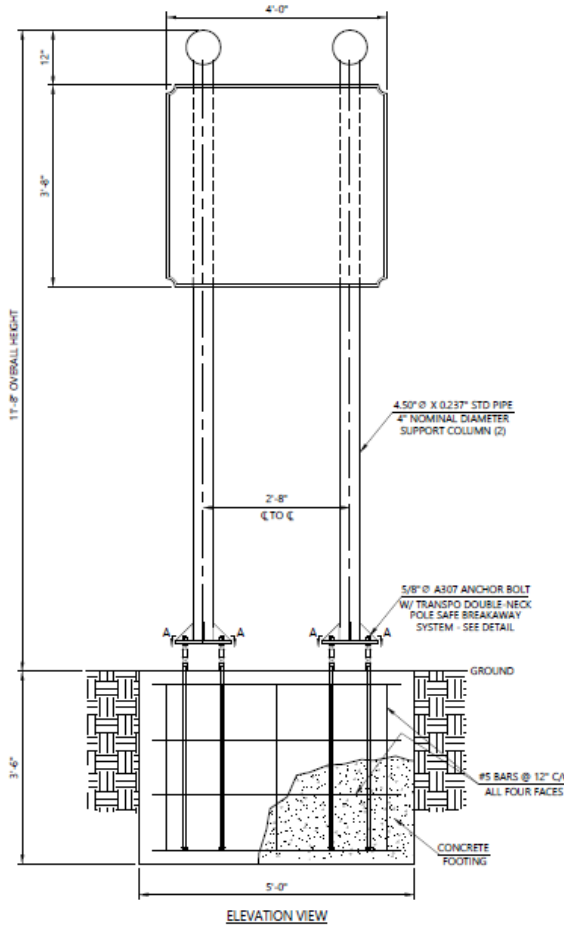
The signs are in storage in Laramie if you need to take a look at them prior to submitting a quote. The installation of these first 5 signs is the beginning of a phased project that will include the installation of 40-50 way-finding signs in Laramie over the next 2-5 years.

**PLEASE CONTACT THE CITY OF LARAMIE PLANNING DIVISION AT 307-721-5207 OR [PLANNING@CITYOFLARAMIE.ORG](mailto:PLANNING@CITYOFLARAMIE.ORG) WITH QUESTIONS.**

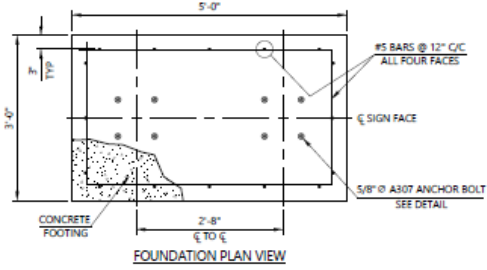
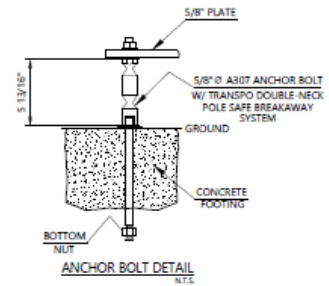
**GENERAL NOTES:**

- All design, fabrication, installation and construction shall conform to the following specifications, unless specifically noted otherwise on the drawing:
  - The 2010 International Building Code
  - American Concrete Institute Building Code Requirements for Reinforced Concrete (318-14)
  - American Institute of Steel Construction, Inc. Manual of Steel Construction (13th Edition)
  - American Welding Society AWS/AWS D1.1 Structural Welding Code - Steel
- All steel components shall be as listed below, unless noted otherwise:
  - All rolled shapes, plates and bars shall be ASTM A36, or equal.
  - All pipe shall meet the requirements of ASTM A53, Type S or X, or ASTM A509, Gr B.
  - All structural tubing shall be ASTM A509, Grade B, or equal.
  - All bolted connections shall be made with ASTM A325 bolts and shall be installed as per AISC Specifications.
  - All anchor bolts shall be ASTM A307 Gr C or ASTM F1554 Gr 36 and shall be galvanized and installed as per AISC Specifications.
  - All exposed materials shall be properly protected from weathering and/or corrosion.
- All field welds shall be made by a welder certified in the specified position, (none required).
- All welds shall be made with E70XX electrode or equal.
- All welds shall be made in a sequence that will balance the applied heat of welding while the welding progresses.
- All concrete shall have a minimum compressive strength at 28 days of 2500 psi.
- Spigots may be installed on the structure after a minimum curing time of 7 days, provided the curing process has been properly maintained in accordance with ACI 318-14.
- All reinforcement steel shall have a minimum yield strength of 60,000 psi and shall conform to ASTM A603. All reinforcement steel shall be placed in accordance with ACI 318-14.
- All reinforcement steel shall be provided with a minimum concrete cover of 2" when concrete is cast against earth.
- Reinforcement steel shall not be "lap" welded at crossing points.
- The structure has been designed to withstand a 115 mph (100 mph gust design wind speed) with a maximum design pressure of 17.2 psf according to ASCE 7-16. (Reference C-104, C-11)
- The design pressure shown is prior to the 0.6 ASD design factor being applied per ASCE 7-16.
- The foundation has been designed assuming the following average soil conditions:
  - Allowable lateral bearing pressure of 150 psf (This value is used for tube and auger footings.)
  - The soil allowable is multiplied by two for isolated footing as per ACI 318.2.1.
  - 150 psf corresponds to sand, silt sand, clayey sand, silty gravel, clayey gravel or equal.
  - If soil conditions other than those assumed are encountered (including soft soils, unstable or collapsing soils, expansive soils, organic material, groundwater, adjacent utilities, or any other condition of potential concern) cause excavation immediately and contact Cornerstone so that the foundation design can be re-evaluated.
  - If the structure is to be located in the proximity of a building or any other structure, Cornerstone shall be contacted prior to installation to evaluate any potential impact to the adjacent footings.
  - If the structure is located on the side or top of a slope in excess of 2:1, the installer shall contact Cornerstone for re-evaluation. The foundation shall not be placed in or near a FE slope without Cornerstone's approval.
- All concrete shall be placed in direct contact with undisturbed soil. There shall be no backfill soil placed in or around the foundation without written approval from Cornerstone.
- Cornerstone is in no way responsible for the safety of the work site during installation. The installer shall take appropriate measures to make sure that the installation of the foundation and the reaction of the structure is performed using methods in compliance with applicable OSHA regulations.
- If existing and proposed conditions are not as detailed in this design drawing the installer shall cease work and notify Cornerstone immediately.
- Cornerstone will not be performing on-site inspections or verification of conditions. It is the responsibility of the installer, the structure owner, and the property owner to identify the on-site conditions and to contact Cornerstone with any discrepancies or concerns. It is the owner's responsibility to locate and mark all underground utilities.
- Any deviation from these plans or non-compliance with the general notes without written approval from Cornerstone will render the entire design to be void.

**NOTICE:**  
CORNERSTONE ENGINEERING, INC. IS RESPONSIBLE FOR COLUMN AND FOOTING DESIGN ONLY. SIGN CABINET COMPONENTS AND ATTACHMENT ARE THE RESPONSIBILITY OF THE SIGN MANUFACTURER.



**ANCHOR BOLT NOTE:**  
THE ANCHOR BOLTS SHALL ATTACH TO THE DOUBLE-NECK POLE-SAFE COUPLING MODEL NO. 4062 BY TRANSPO INDUSTRIES, INC. AS DETAILED. THE COUPLING SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATION.



THIS PLAN AND ANY RELATIONSHIPS THEREIN, AND RELATED BY THESE TERMS, SHALL BE VOID IF NOT USED IN ACCORDANCE WITH THE TERMS OF THE ORIGINAL CONTRACT.  
FOR THE SIGN MANUFACTURER'S USE ONLY: CORNERSTONE ENGINEERING, INC. SHALL BE RESPONSIBLE FOR THE DESIGN OF THE SIGN MANUFACTURER'S USE ONLY.

**CORNERSTONE ENGINEERING, INC.**  
1000 William Road Drive - Marysville, TN 37081  
(615) 273-0888 - www.corstoneinc.com

DESIGNER: **TWIN TREE SIGNS**  
909 Bar Row Farm Road, State 8 - Chappin, WY 83007  
Laramie City Sign @ 11'-8" Overall Height  
Laramie, Wyoming

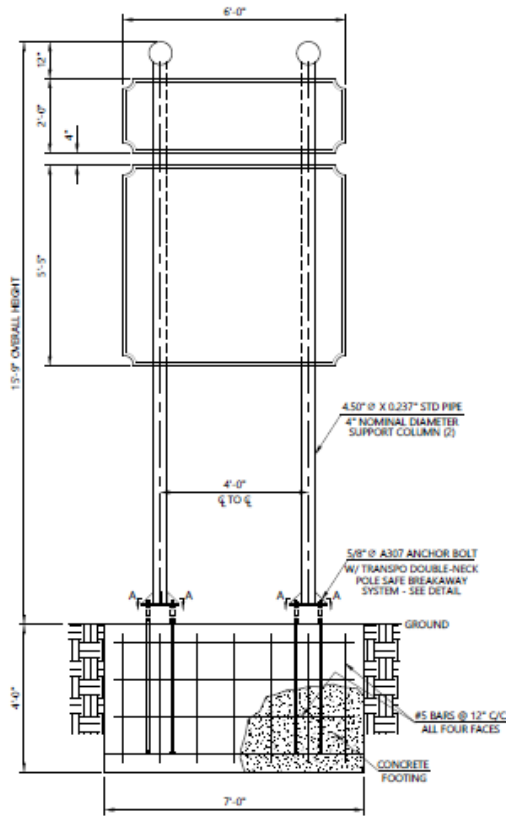
Drawn By: **CRS**  
Date: **12/09/2022**  
Project #: **Z20964**  
Dwg #: **CA27282**  
Scale: **3/4" = 1'-0"**  
Sheet: **1 of 1**

**JAMES CORDELL KING III**  
Digitally signed by James King  
Date: 2022.12.09 09:58:45 -05'00'  
WYCOMD

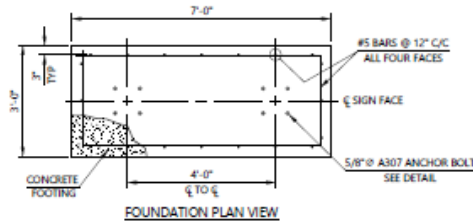
WY P.E. # 15816

**CRITICAL NOTES:**

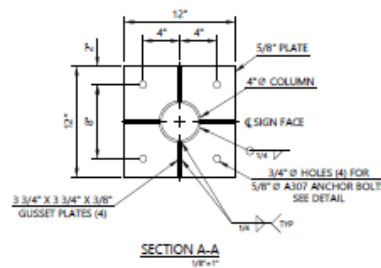
- All design, fabrication, installation and construction shall conform to the following specifications, unless specifically noted otherwise on the drawing:
  - The IBC International Building Code
  - American Concrete Institute Building Code Requirements for Reinforced Concrete (ACI 318-14)
  - American Institute of Steel Construction, Inc. Manual of Steel Construction (AISC 360-16)
  - American Welding Society AWS D1.1 Structural Welding Code - Steel
- All steel components shall be as listed below, unless noted otherwise:
  - All rolled shapes, plates and bars shall be ASTM A36, or equal.
  - All pipe shall meet the requirements of ASTM A33, Type 1 or 5, or ASTM A307, or 6.
  - All structural tubing shall be ASTM A307, Grade B, or equal.
- All bolted connections shall be made with ASTM A307 Bolts and shall be installed as per AISC specifications.
- All anchor bolts shall be ASTM A307 or C or ASTM F1554 or 68 and shall be galvanized and installed as per AISC specifications.
- All exposed materials shall be properly protected from weathering and/or corrosion.
- All field welds shall be made by a welder certified in the specified position (none required).
- All welds shall be made with E70XX electrode, or equal.
- All welds shall be made in a sequence that will balance the applied heat of welding while the welding progresses.
- All concrete shall have a minimum compressive strength at 28 days of 3000 psi.
- Signage shall be installed on the structure after a 28-day curing time of 7 days, provided the curing process has been properly maintained in accordance with ACI 318-14.
- All reinforcement steel shall have a minimum yield strength of 60,000 psi and shall conform to ASTM A615. All reinforcement steel shall be placed in accordance with ACI 318-14.
- All reinforcement steel shall be provided with a minimum concrete cover of 1" when concrete is cast against steel.
- Reinforcement steel shall not be back-welded at coupling points.
- The structure has been designed to withstand a 175 mph (3 sec. gust) design wind speed with a maximum design pressure of 32.4 psf according to ASCE 7-16, Supplement C, Risk Cat 1)
  - The design pressure shown is prior to the ASCE design factor being applied per ASCE 7-16.
- The foundation has been designed assuming the following average soil conditions:
  - Allowable Lateral Bearing Pressure of 150 psf/ft (This value is used for pile and auger footings). The soil allowable is multiplied by two for isolated footing as per IBC 1804.2.1.
  - 150 psf/ft corresponds to sand, silt, sand, clayey sand, silty gravel, clayey gravel or equal.
  - If soil conditions other than those assumed are encountered (including soft soils, unstable or collapsing soils, expansive soils, organic materials, groundwater adjacent utilities, or any other condition of potential concern) cause reaction immediately and contact Cornerstone so that the foundation design can be re-evaluated.
  - If the structure is to be located in the proximity of a building or any other structure, Cornerstone shall be contacted prior to installation to evaluate any potential impact on the adjacent footings.
  - If the structure is located on the side or top of a slope in excess of 0.1, the installer shall contact Cornerstone for re-evaluation. The foundation shall not be placed in or near a 60 degree without Cornerstone's approval.
- All concrete shall be placed in direct contact with undisturbed soil. There shall be no backfilled soil placed in or around the foundation without written approval from Cornerstone.
- Cornerstone is in no way responsible for the safety of the work site during installation. The installer shall take appropriate measures to make sure that the installation of the foundation and the erection of the structure is performed using methods in compliance with applicable OSHA regulations.
- If existing and proposed conditions are not as detailed in this design drawing the installer shall come back and notify Cornerstone immediately.
- Cornerstone will not be performing on-site inspections or verifications of conditions. It is the responsibility of the installer, the structure owner, and the property owner to identify the on-site conditions and to contact Cornerstone with any discrepancies or concerns. It is the owner's responsibility to locate and mark all underground utilities.
- Any deviation from these plans or non-compliance with the general notes without written approval from Cornerstone will render the entire design to be void.



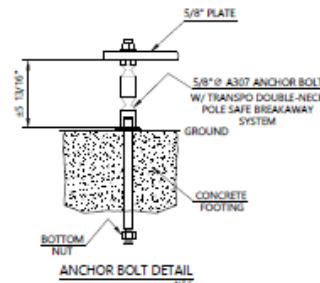
**ELEVATION VIEW**



**FOUNDATION PLAN VIEW**



**SECTION A-A**  
VP+T

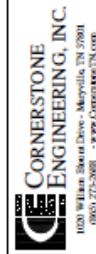


**ANCHOR BOLT DETAIL**  
1:1

WE STEEL HAS BEEN MATERIALLY BENT AND BRUISED BY JAMES CORDETT KING & P.C. ON THE DATE SHOWN ON THE TOP TRAMP VIEW IN INITIAL DRAWING.  
PRINTED COPIES OF THIS DRAWING ARE NOT CONSIDERED BLENDED AND SEALS AND THE DRAWING MUST BE VIEWED ON ANY ELECTRONIC DEVICE.

**ANCHOR BOLT NOTE:**  
THE ANCHOR BOLTS SHALL ATTACH TO THE DOUBLE-NECK POLE SAFE COUPLING MODEL NO. 4062 BY TRANSPO INDUSTRIES, INC. AS DETAILED. THE COUPLING SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATION.

**NOTICE:**  
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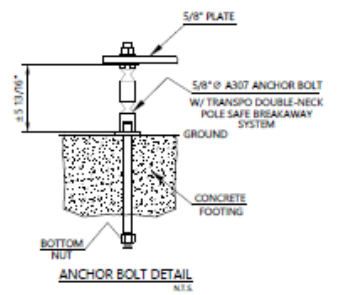
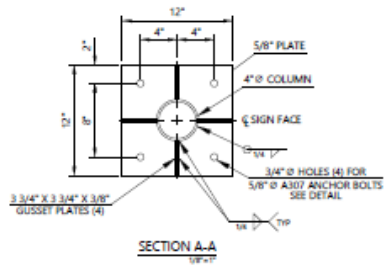
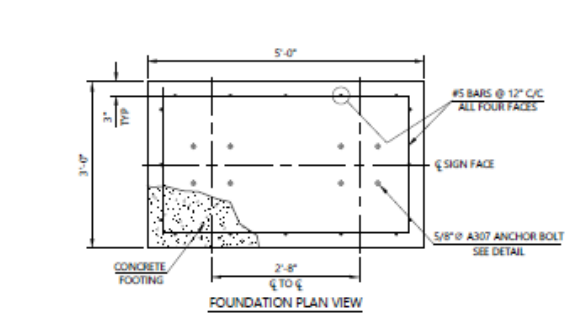
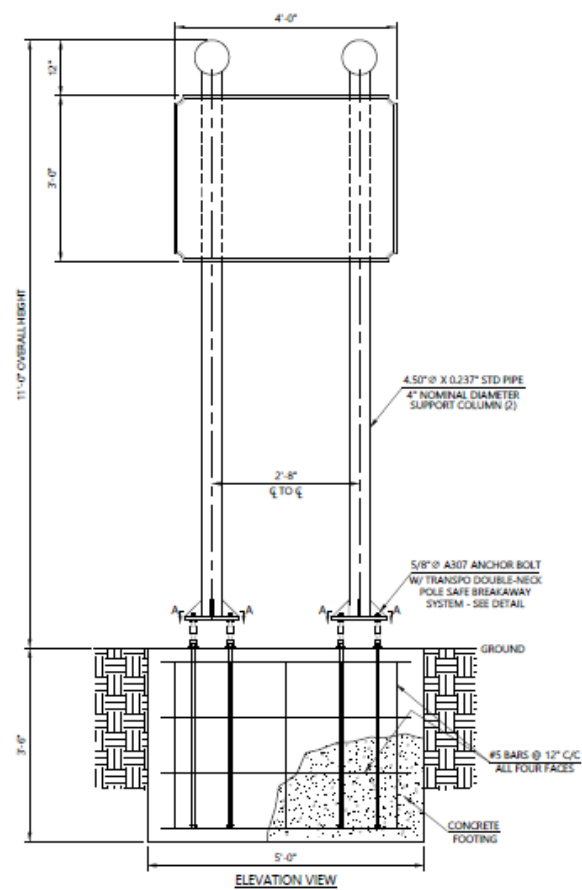
PREPARED FOR:  
**TWIN TREE SIGNS**  
900 East Fox Farm Road - Suite 8 - Chrysalis, WY 83007  
Laramie City Sign @ 15'-0" Overall Height  
Laramie, Wyoming

Drawn By: **CS**  
Date: **12/09/2022**  
Project #: **220564**  
Dwg #: **C02781**  
Scale: **1/2"=1'-0"**  
Sheet: **1 of 1**

**JAMES CORDETT J. KING III**  
Digitally signed by James King  
Date: 2022.12.09 09:53:26 -0500  
WY P.E. # 15816

**GENERAL NOTES:**

- All design, fabrication, installation and construction shall conform to the following specifications, unless specifically noted otherwise in the drawing:
  - The 2018 International Building Code
  - American Concrete Institute Building Code Requirements for Reinforced Concrete (318-18)
  - American Institute of Steel Construction, Inc. Manual of Steel Construction (15th Edition)
  - American Welding Society AWS/AISC D1.1 Structural Welding Code - Steel
- All steel components shall be as listed below, unless noted otherwise:
  - All rolled shapes, plates and bars shall be ASTM A36, or equal.
  - All pipe shall meet the requirements of ASTM A53, Type 1 or 2, or ASTM A530 or 4.
  - All structural tubing shall be ASTM A500, Grade B, or equal.
  - All bolted connections shall be made with ASTM A502 bolts and shall be installed as per AISC Specifications.
  - All anchor bolts shall be ASTM A307 or C or ASTM F1554 or 55 and shall be galvanized and installed as per AISC Specifications.
  - All exposed materials shall be properly protected from weathering and/or corrosion.
- All field welds shall be made by a welder certified in the specified position. (none required)
  - All welds shall be made with E70XX electrode, or equal.
  - All welds shall be made in a sequence that will balance the applied heat of welding while the welding program.
- All concrete shall have a minimum compressive strength at 28 days of 2500 psi.
  - Reinforcement shall be installed on the structure after 28 days, but no later than 7 days, provided the curing process has been properly maintained and in accordance with ACI 308-14.
- All reinforcement steel shall have a minimum yield strength of 60,000 psi and shall conform to ASTM A615. All reinforcement steel shall be placed in accordance with ACI 318-14.
  - All reinforcement steel shall be provided with a minimum concrete cover of 2" when concrete is cast against earth.
  - Reinforcement steel shall not be laced welded at corner joints.
- The structure has been designed to withstand a 150 mph (3 sec gust design wind speed with a maximum design pressure of 17.5 psf according to ASCE 7-16. (Exposure C, Risk Cat II)
  - The design pressure shown is prior to the 0.9 ASD design factor being applied per ASCE 7-16.
- The foundation has been designed assuming the following average soil conditions:
  - Allowable Lateral Bearing Pressure of 150 psf (This value is used for side and edge footings.) The soil allowable is multiplied by two for isolated footings as per IRC 1002.2.1.
  - 150 psf corresponds to sand, silt and clayey sand, silty gravel, clayey gravel or equal.
  - If soil conditions other than those assumed are encountered (including soft soils, unstable or collapsing soils, expansive soils, organic materials, groundwater, adjacent utilities, or any other condition of potential concern), cease excavation immediately and contact Cornerstone so that the foundation design can be re-evaluated.
  - If the structure is to be located in the proximity of a building or any other structure, Cornerstone shall be contacted prior to installation to evaluate any potential impact on the adjacent footings.
  - If the structure is located on the side or corner of a slope or embankment, the installer shall contact Cornerstone for re-evaluation. The foundation shall not be placed on or near a 90 degree slope without Cornerstone's approval.
  - All concrete shall be placed in direct contact with undisturbed soil. There shall be no backfill until placed in or around the foundation without written approval from Cornerstone.
- Cornerstone is in no way responsible for the safety of the work during installation. The installer shall take appropriate measures to make sure that the installation of the foundation and the erection of the structure is performed using methods in compliance with applicable OSHA regulations.
- If existing and proposed conditions are not as detailed in this design drawing, the installer shall cease work and notify Cornerstone immediately.
  - Cornerstone will not be performing on-site inspections or verifications of conditions. It is the responsibility of the installer, the structure owner, and the property owner to identify the on-site conditions and to contact Cornerstone with any discrepancies or concerns. It is the owner's responsibility to locate and mark all underground utilities.
- Any deviation from these plans or non-compliance with the general notes without written approval from Cornerstone will void the entire design to be void.



THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JAMES CORDELL KING III ON THE DATE SHOWN ON THE TMC STAMP USING A DIGITAL SIGNATURE.  
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**ANCHOR BOLT NOTE:**  
 THE ANCHOR BOLTS SHALL ATTACH TO THE DOUBLE-NECK POLE SAFE COUPLING MODEL NO. 4002 BY TRANSPRO INDUSTRIES, INC. AS DETAILED. THE COUPLING SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATION.

**NOTICE:**  
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PREPARED FOR:  
**TWIN TREE SIGNS**  
 900 East Fox Creek Road - States - Cheyenne, WY 82007  
 Laramie City Sign @ 11'-0" Overall Height  
 Laramie, Wyoming

Drawn By: CDS  
 Date: 12/09/2022  
 Sheet: 1 of 1

JAMES CORDELL KING III  
 Digitally signed by James King  
 DN: cn=James King, o=James King, ou=James King, email=jking@cornerstoneeng.com, c=US  
 2022.12.09 09:56:30 -0500  
 WYOMING

WY P.E. # 15316

Attachment B

