

GENERAL NOTES:

1. Desuta Concrete Forms (DCF) has prepared these drawings based on information provided to DCF by the customer. These drawings are intended to illustrate a proper manner of use of the equipment and not a warranty of performance. The customer is to be responsible for the selection and use of the equipment.
2. DCF makes no warranty, expressed or implied, including the implied warranty of merchantability and fitness for a particular purpose.
3. The customer and not DCF shall be responsible for the actual use of the drawings and equipment, for detailing and complying with all state and local laws, ordinances and codes.
4. DCF shall have no liability for any loss or damage, including consequential, special or punitive damages, or any loss or damage, incurred by the customer for personal injury, property damage or of content of any detail in the drawings of the equipment.
5. DCF's sole responsibility in the event of a defect is to repair or replace the defective equipment or goods.

FORMWORK DESIGN NOTES:

- A. Make & brace all formwork joints that are not tied.
- B. Use a minimum of 3/4" diameter steel ball formwork on the customer design and construction responsibility.
- C. Inspect completed formwork before pouring to ensure proper placement and secure.
- D. Do not attach scaffold brackets to formwork without proper consultation and permission.
- E. Connect formwork with wedge bolts, not from each corner of each form and of every panel.
- F. Do not use more than one 1/2" diameter wedge bolt on a single panel.
- G. All bracing and structural rods are to be used as a support for any other purpose.
- H. Braces are shown for different panel finishing only. They are not intended to resist lateral loads.
- I. For safety purposes, refer to SSPF publications 401 Guide to Safety Practices for Vertical Concrete Formwork.

FORMWORK PRESSURE:

This drawing is based on a maximum allowable concrete pressure rate of 7 1/2 psi per foot of finished formwork. The customer is to be responsible for the selection and use of the equipment. It is the contractor's responsibility to adjust the pour rates and placement procedures to comply with the above noted pressure.

PRESSURE FORMULAS

Rate less than 7 1/2 psi/hr, wall height < 14' : $P = CwCt(150 + 9000R/T)$
 Rate 7 1/2 psi/hr to 15 psi/hr or less than 7 1/2 psi/hr with wall height > 14':
 $P = CwCt(150 + 43400/T + 2800 R/T)$
 NOTE: Max. pressure not to exceed 40 psi, min. allow pressure is 600 c/sf. Do not use pressures in excess of 40 psi.

LIST OF PRESSURE INCREASES

Multiply value from pressure chart by unit weight and chemistry coefficients to obtain pressure for design of wall forms.

| | |
|-------------------------------------|------------------------|
| Concrete weighing less than 140 pcf | $Cw = 0.5 (1 + w/145)$ |
| Concrete weighing 140 to 150 pcf | $Cw = 1.0$ |
| Concrete weighing more than 150 pcf | $Cw = w/145$ |

CHEMISTRY COEFFICIENT, Cc

Types I, II and III Cement without retarders* 1.0
 Types I, II and III Cement with retarders* 1.2
 Other types or brands without retarders containing less than 70% slag or less than 40% fly ash 1.2
 Other types or brands with retarders containing less than 70% slag or less than 40% fly ash 1.4
 Brands containing more than 70% slag or 40% fly ash 1.4
 *Retarders include any admixtures such as retarders, retarding water reducers, or retarding medium or high-range water-reducing admixtures that delay the setting of concrete.

FORMWORK TIES

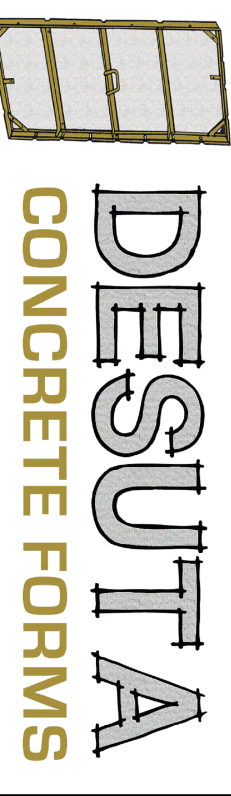
THE SAFE LOAD CAPACITY OF THE TIES USED IN THIS LAYOUT IS 3000# UNLESS NOTED OTHERWISE.

LEGEND

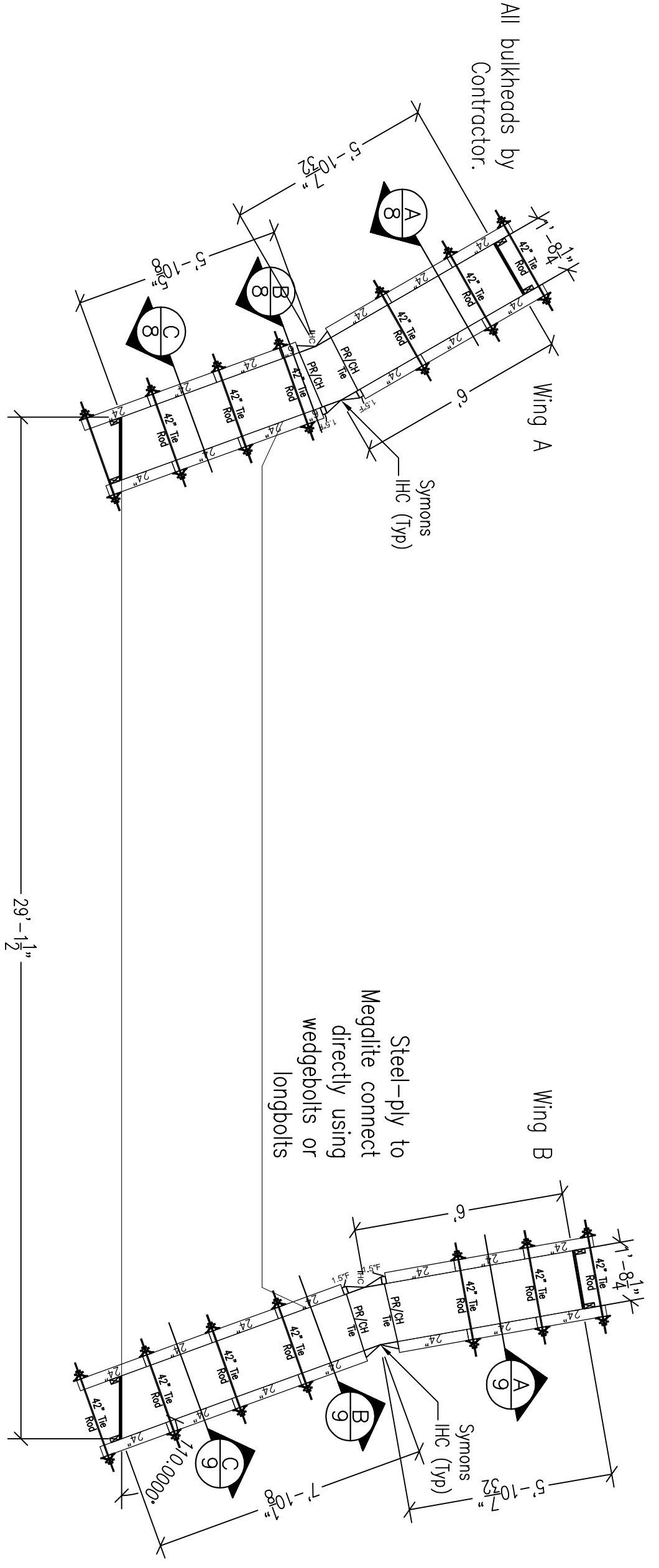
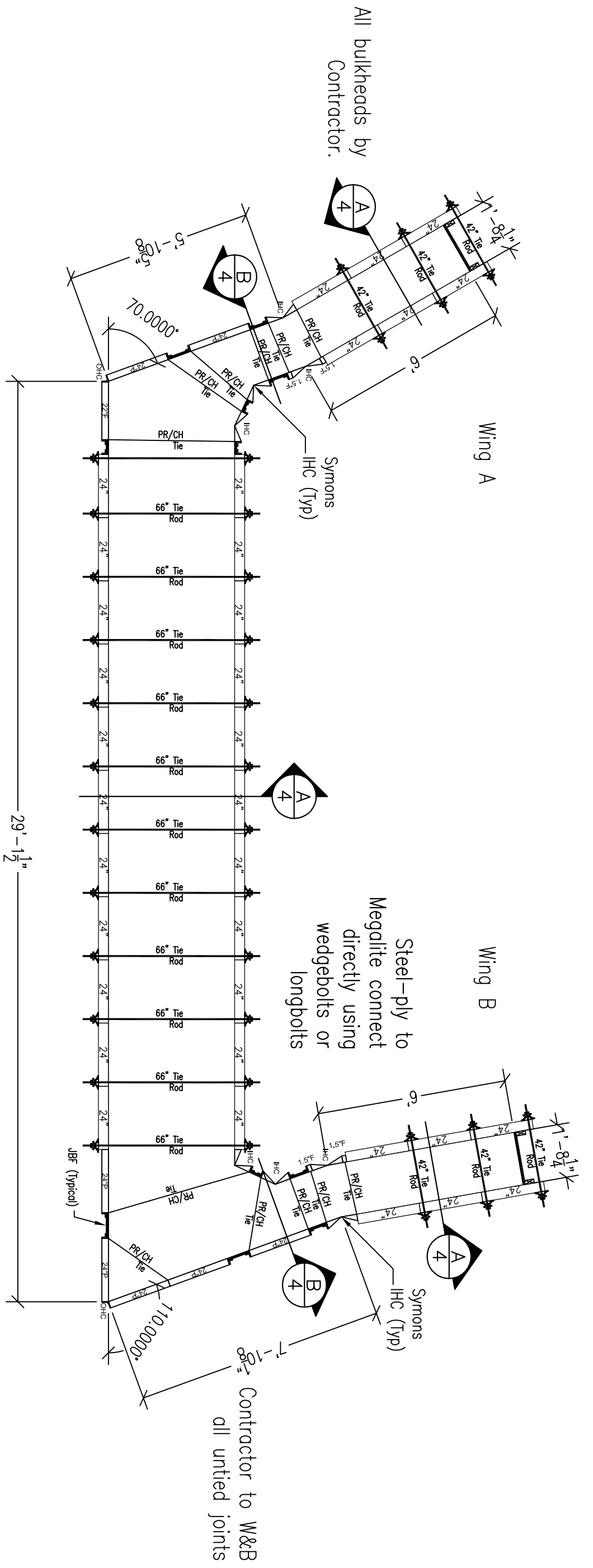
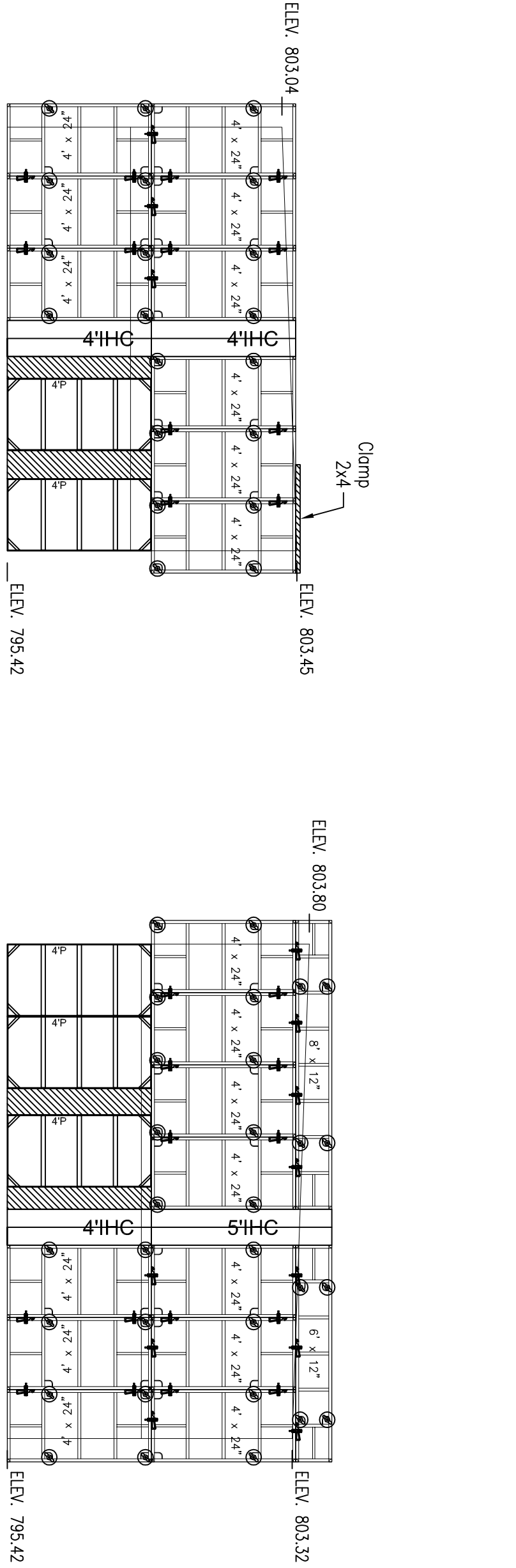
- 8B - 808 BOLT TIE
- 8C - 808 BOLT TIE
- 8D - 808 BOLT TIE
- 8E - 808 BOLT TIE
- 8F - 808 BOLT TIE
- 8G - 808 BOLT TIE
- 8H - 808 BOLT TIE
- 8I - 808 BOLT TIE
- 8J - 808 BOLT TIE
- 8K - 808 BOLT TIE
- 8L - 808 BOLT TIE
- 8M - 808 BOLT TIE
- 8N - 808 BOLT TIE
- 8O - 808 BOLT TIE
- 8P - 808 BOLT TIE
- 8Q - 808 BOLT TIE
- 8R - 808 BOLT TIE
- 8S - 808 BOLT TIE
- 8T - 808 BOLT TIE
- 8U - 808 BOLT TIE
- 8V - 808 BOLT TIE
- 8W - 808 BOLT TIE
- 8X - 808 BOLT TIE
- 8Y - 808 BOLT TIE
- 8Z - 808 BOLT TIE

PRELIMINARY FOR QUOTATION

- PRELIMINARY FOR APPROVAL BY CUSTOMER
- WORKING DRAWING ISSUED FOR USE IN FIELD



TITLE Abutment Plan
PROJECT Park Quarry Road
LOCATION Beaver County - Freedom Rd
CONTRACTOR Bryson Construction
SCALE DRAINING NO. 072017
SHEET 51
REV.



This drawing is intended to show equipment layout information and spacing. The actual equipment supplied for the project may differ from the equipment shown on this layout based on availability. Desuta Concrete Forms reserves the right to allow structurally acceptable substitute equipment as necessary.

WARNING
 Before using, setting up or taking down scaffolding, formwork, or shoring, check with your boss as to the safe use of the equipment. In accordance with safety design requirements and standards.
SAFETY MUST COME FIRST

| REV. | DESCRIPTION |
|------|-------------|
| A. | |
| B. | |
| C. | |
| D. | |

