

**Structural Steel General Notes 5100:**

- All detailing, fabrication and erection of structural steel shall conform to the requirements of the AISC Specification for the Design, Fabrication and Erection of Structural Steel for Buildings.
- Hollow Structural Section (HSS) shall conform to ASTM A500, Grade C with a yield strength of 50 ksi.
- All other structural steel shall conform to the requirements of ASTM A36. Angle, plate and beam lintels at exterior wall openings shall be hot-dipped galvanized.
- All welding shall conform to the Specifications of the American Welding Society. Welding electrodes shall be E-70 low hydrogen series. Welding shall be done by a certified welder.
- No openings shall be cut in structural members unless shown on the drawings.
- All exposed edges of plates, beams, etc., shall be shop ground smooth and uniform.
- 1/2"Ø expansion bolts shall be 1/2"Ø x 5 1/2" long Kwik Bolt 3 by Hilli. Expansion Anchor shall be carbon steel with zinc plating & have a 3 1/2" embedment depth.

**Steel Joist General Notes 5200:**

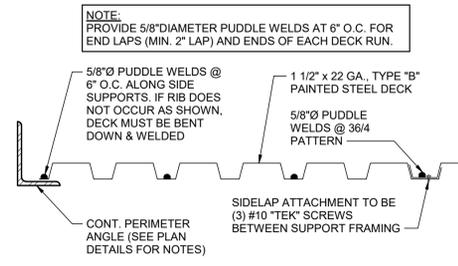
- The design, fabrication and erection of steel joists shall conform to the Standard Specifications for Open Web Steel Joists of the Steel Joist Institute. Joists have been designed according to the ASD Load Tables. Joist loads shown on the drawings are ASD loads.
- All hangers supported from open web joists shall be located at bottom chord panel points and shall be connected without field welding or drilling holes in the bottom chord.
- Joists shall have bridging per SJI Specifications. Roof joists shall have additional bridging, as required to resist stress reversal for the net uplift load indicated.
- Roof joists shall be designed for a net wind uplift of 18 psf. One-third stress increase of joists for wind uplift will not be allowed.
- "K" Joists framing into or nearest to columns shall be field bolted with (2) 1/2" diameter A307 bolts and have a 1/4" x 6" x 6" bottom chord stabilizer plate to provide lateral stability during construction. Do not weld bottom chord to stabilizer plate.
- Attach joist top and bottom chord bridging to masonry walls with L2 1/2 x 2 1/2 x 3/16 x joist depth and (3) 1/2"Ø sleeve anchors, minimum.

**Steel Deck General Notes 5300:**

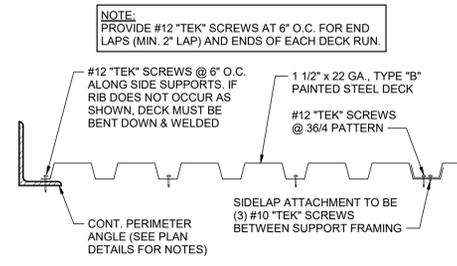
- Typical roof deck shall be 1 1/2" deep, 22 gauge, wide rib type and shall have nested side laps (Vulcraft 1.5B22, New Millennium 1.5B22 or approved equal). See Roof Framing Plans for limits of roof deck.
- Roof deck shall be attached to the steel framing per the Roof Deck Fastening Pattern Detail 1/S1.2.
- Roof deck fastening pattern has been designed for a net wind uplift of 55 psf at corner zones, 35 psf at side zones and 20 psf at interior zones for roofs.
- All deck shall be fastened per Steel Deck Institute (SDI) requirements.
- Deck specified has been determined on basis of 3 span condition; deck supplier shall use heavier gauge if required for one and two span conditions.

**Design Loads**

- Typical Roof Dead Load: 20 psf
- Roof Live Load: 20 psf
- Rain Intensity, (15 min. i): 6.44 in/hr
- Snow Load: 15 psf
  - Ground Snow Load:
  - Flat-roof Snow Load at main roof (P<sub>f</sub>) = 15 psf
  - Slope Factor (C<sub>s</sub>) = 1.0
  - Snow Exposure Factor (C<sub>e</sub>) = 1.0
  - Snow Load Importance Factor (I<sub>s</sub>) = 1.1
  - Thermal Factor (C<sub>t</sub>) = 1.0
- Wind Load: 115 mph / 89.1 mph
  - Ultimate Design Wind Speed (V<sub>ult</sub>):
  - Nominal Design Wind Speed (V<sub>nom</sub>):
  - Risk Category II
  - Wind Exposure C
  - Internal Pressure Coefficient, GC<sub>pi</sub> = ±0.00
- Building Code:
  - 2021 International Building Code
  - 2021 Arkansas Fire Prevention Code, Volume II



**1 1/2" ROOF DECK W/ WELDS**



**1 1/2" ROOF DECK W/ SCREWS  
(CONTRACTOR OPTION)**

**1 TYP. ROOF DECK FASTENING PATTERN DETAIL**  
NOT TO SCALE



**Hight Jackson Associates**  
5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72788 | (479) 464-4965 | www.hjarch.com

A RESTORATION FOR  
**RPS Administration Building**  
500 W Walnut St. Rogers AR 72756

DRAWN BY:  
**JLC**  
CHECK BY:  
**MAS**  
ISSUE DATE:  
**11/25/25**

PROJECT NO:  
**2534**

REVISION DATES:  
**12/17/25**

FRAMING GENERAL NOTES & TYP. DETAILS  
S H E E T  
**S1.2**  
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**TATUM SMITH WELCH**  
STRUCTURAL ENGINEERS  
(479) 621-6128 ROGERS, ARKANSAS  
TSW #: 25180 PM: MAS DE: MAS