

NOTE:

- ALL METAL TO BE POWDER COATED. COLOR: RAL TEXTURED NUTMEG
- SURFACE MOUNT BENCH. EXTEND ANCHORS THROUGH PAVERS INTO CONC. BASE.
- ALL HARDWARE TO BE 18-8 SS
- PROVIDE SAMPLES OF ACRYLIC PANEL FOR REVIEW.
- PROVIDE SAMPLES OF WOOD SEAT FOR REVIEW.
- PROVIDE SAMPLES OF POWDERCOATING FOR REVIEW.

# 15 LIGHTED BENCH - PERSPECTIVE

- ALL DETAIL OF LIGHTED BENCH ARE SUPPLEMENTAL TO THE LIGHTED BENCH SPECIFICATIONS.
- PROVIDE SHOP DRAWINGS OF LIGHTED BENCH FOR REVIEW.
- LIGHTED BENCH TO BE LANDSCAPE FORMS BACKLESS BENCH (SF2622-001), OR ARCHITECT APPROVED EQUIVALENT.

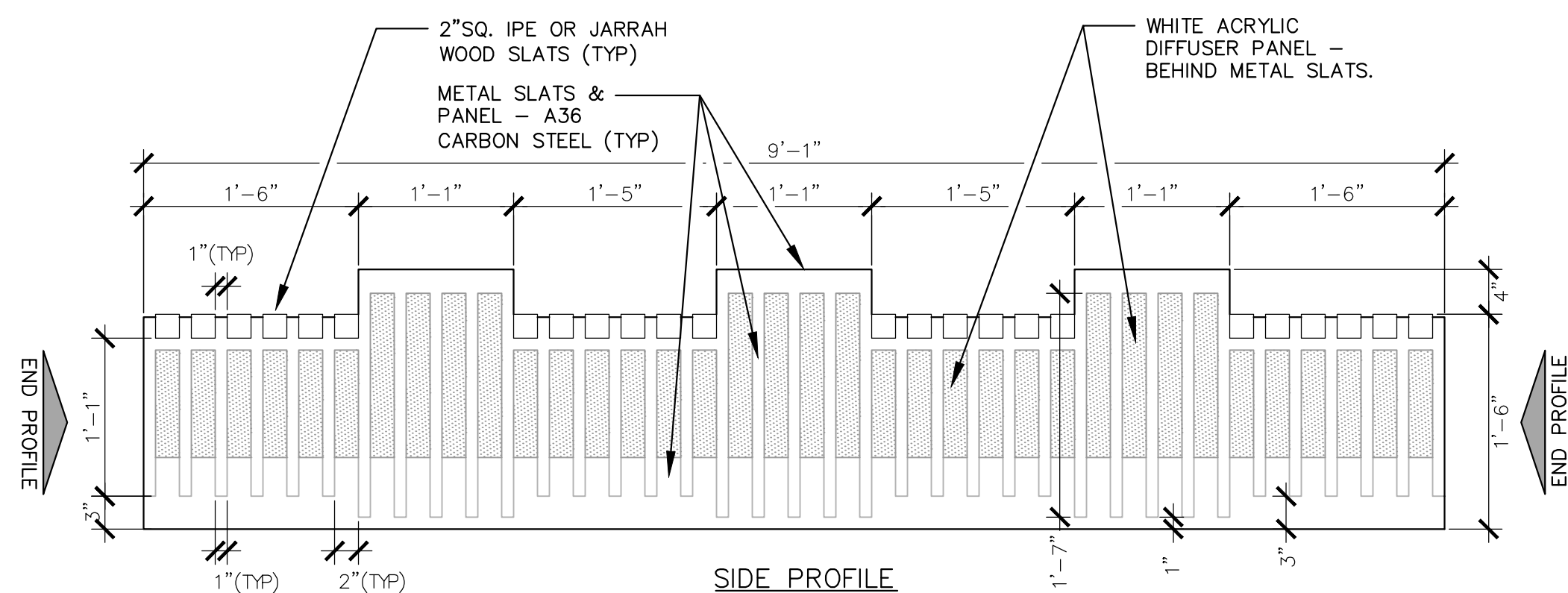
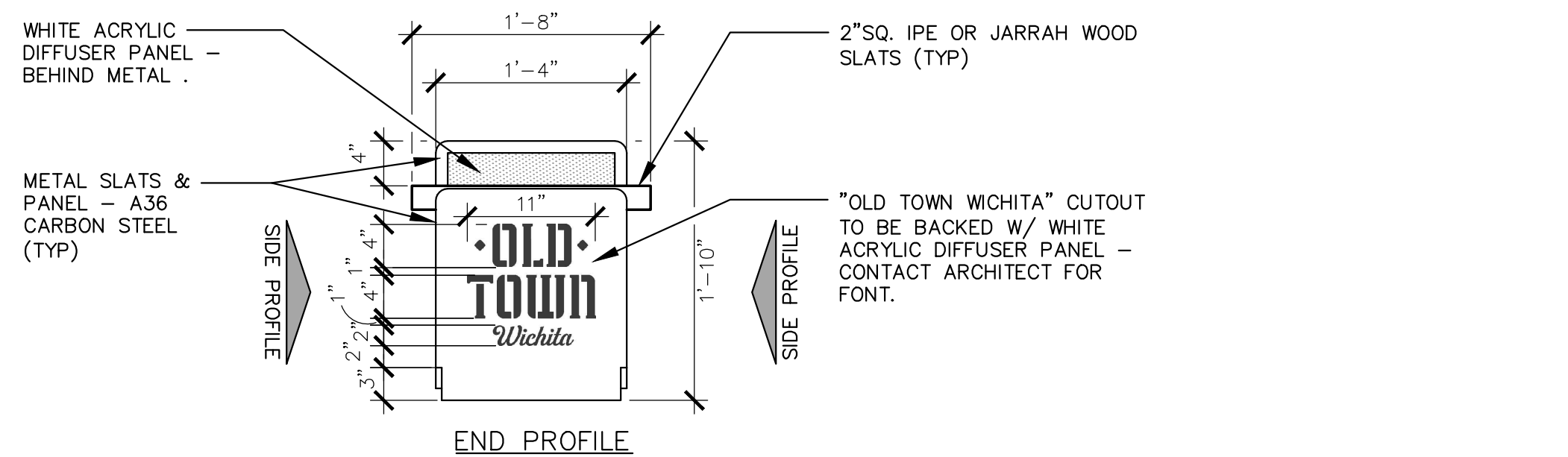
1-1/2" = 1'-0"

### BENCH NOTE:

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### LIGHTING NOTE:

- MANUFACTURER TO INSTALL LED LIGHTING WITHIN BENCH.
- COORDINATE STUB UP OF POWER SUPPLY W/ ELECT. CONTRACTOR.
- LOCATE STUB UP FOR POWER IN THE MIDPOINT OF THE BENCH BASE. SEE PLAN FOR BENCH LOCATIONS.



# 16 LIGHTED BENCH - PROFILES

- ALL DETAILS OF LIGHTED BENCH ARE SUPPLEMENTAL TO THE LIGHTED BENCH SPECIFICATIONS.
- PROVIDE SHOP DRAWINGS OF LIGHTED BENCH FOR REVIEW.
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1" = 1'-0"

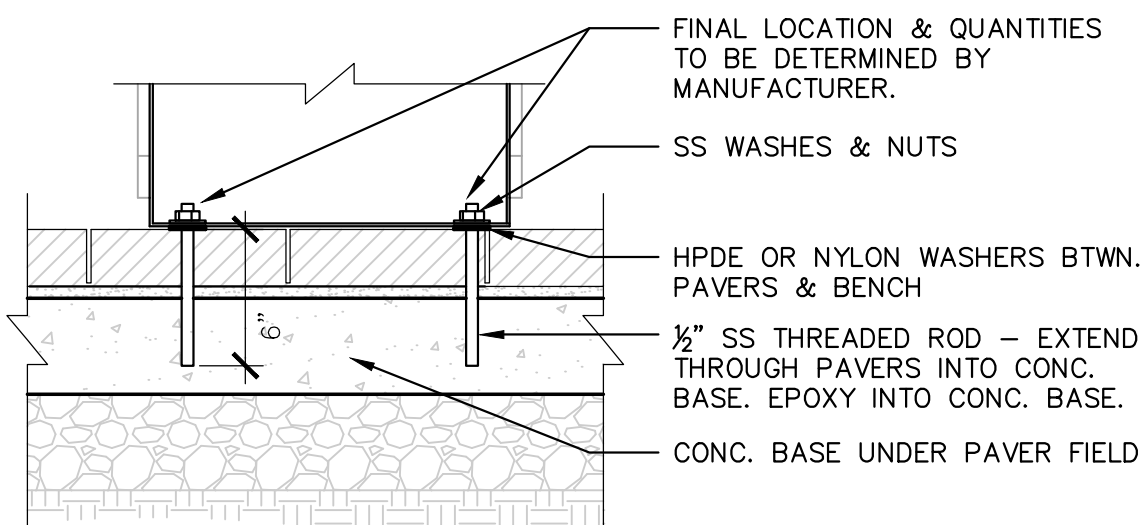
# 17 LIGHTED BENCH - MOUNTING

- ALL DETAILS OF LIGHTED BENCH ARE SUPPLEMENTAL TO THE LIGHTED BENCH SPECIFICATIONS.
- PROVIDE SHOP DRAWINGS OF LIGHTED BENCH FOR REVIEW.
- LIGHTED BENCH TO BE LANDSCAPE FORMS BACKLESS BENCH (SF2622-001), OR ARCHITECT APPROVED EQUIVALENT.

1-1/2" = 1'-0"

NOTE:

- COORDINATE ANCHOR SPECIFICATION W/ MANUFACTURE & ARCHITECT.
- TOTAL OF EIGHT MOUNTS PER BENCH.
- ALL MOUNTING HARDWARE USED ON LIGHTED BENCH TO BE SS.



SF2622-001 1st & 2nd Street Parklet Benches

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### LIGHTED BENCH

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Products - Manufactured by Landscape Forms Inc.
  - SF2622-001 - PROP. BACKLESS BENCH (Or Architect Approved Equivalent)

##### 1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data, storage and handling requirements and recommendations, installation methods and available colors, styles, Patterns and textures.
- B. Shop Drawings: Submit manufacturer's shop drawings, including plans and elevations, indicating overall dimensions.
- C. Samples: Submit manufacturer's samples of materials, finishes, and colors.
- D. Warranty: Manufacturer's standard warranty.

##### 1.3 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Manufacturer regularly engaged in manufacture of site furnishings for a minimum of 25 years.
- 1. Provide 5 similar reference projects with direct contact information.
- B. Product Support: Products are supported with complete engineering drawings. Submit final engineered shop drawings for Architect review prior to manufacture.
- C. Insurance: Liability insurance coverage of two million dollars
- D. Facility Operator: Welders and machine operators are certified for all AWS & ASTM standards that apply.

##### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage: Store materials in clean, dry area in accordance with manufacturer's instructions. Keep materials in manufacturer's original, unopened containers and packaging until installation.
- C. Handling: Protect materials and finish during handling and installation to prevent damage.

##### 1.5 WARRANTY

- A. Warranty Information:
  - Products will be free from defects in material and/or workmanship for a period of three years from the date of invoice.
  - The warranty does not apply to damage resulting from accident, alteration, misuse, tampering, negligence, or abuse.
  - Product, at the option of manufacturer, repair, replace, or refund the purchase price of any items found defective upon inspection by an authorized service representative.

#### PART 2 PRODUCTS

##### 2.1 MANUFACTURER

- A. Landscape Forms, Inc., 7800 East Michigan Ave, Kalamazoo, Michigan 49048. Toll Free (800) 521-2546. Phone (269) 381-0396. Fax (269) 381-3455. Website www.landscapeforms.com. E-mail specify@landscapeforms.com.
- B. Architect Approved Equivalent Manufacturer. Contractor shall submit alternative Manufacturer prior to bidding of project. Alternative manufacturers or products will not be approved after bid letting.

##### 2.2 PRODUCTS

###### A. 1st & 2nd Street Parklet Benches

- B. Style:
  - SF2622-001 - PROP. BACKLESS BENCH
    - Overall Height: 18"- Seat & 22"- Table
    - Overall Width: 20"
    - Length: 9'
- C. Mounting:
  - SF2622-001
    - Surface mounted with stainless steel hardware

##### 2.3 MATERIAL

- A. SF2622-001 - PROP. BACKLESS BENCH
  - Frame: A36 Carbon Steel
  - Hardware: 18-8 Stainless Steel
  - White acrylic diffuser panel
  - Static LED lighting and transformer

- B. All seat boards are IPE or Jarrah- exterior grade hardwood:
  - Seat board sizes per plans

##### 2.4 RECYCLED CONTENT

- A. Product:
  - Recycled Material Content: Minimum 65 percent.
  - Post-Consumer Material Content: Minimum 50 percent.
  - Pre-Consumer Material Content: Minimum 15 percent.
  - Recyclable: 100 percent.

##### 2.5 FABRICATION

- A. Shop fabricated & assembled benches.

##### 2.6 FINISHES

- A. Finish on Metal: Landscape Forms, Inc. "Pangard II" or Architect Approved Equivalent
  - Primer: Rust inhibitor.
  - Topcoat: Thermosetting TGIC polyester powder coat. UV, chip, and flake resistant.
  - Test Results: "Pangard II".
    - Gloss Consistency, Gardner 60 Degrees, ASTM D 523: Plus or minus 5 percent from standard.
    - UV Resistance, Color and Gloss, ASTM G 155, Cycle 7: Delta E less than 2 at 2.0 mils and less than 20 percent loss.
    - Cross-Hatch Adhesion, ASTM D 3359, Method B: 100 percent pass.
    - Flexibility Test, Mandrel, ASTM D 522: 3 mm at 2 mils.
    - Erichsen Cupping, ISO 1520: 8 mm.
    - Impression Hardness, Buchholz, ISO 2815: 95.
    - Impact Test, ASTM D 2794: 60 inch-pounds at 2.5 mils.
    - Pencil Hardness, ASTM D 3363: 2H minimum.
    - Corrosion Resistance, 1,500-Hour Test, ASTM B 117: Max undercutting 1 mm.
    - Humidity Resistance, 1,500-Hour Test, ASTM D 2247: Max blisters 1 mm.
- Color: RAL Textured Nutmeg.

##### B. Wood Finish:

- 1. Ipe or Jarrah wood seats to be natural. No oil, stain, varnish or paint

#### PART 3 EXECUTION

##### 3.1 EXAMINATION

- A. Examine areas to receive product.
- B. Notify Architect of conditions that would adversely affect installation or subsequent use.
- C. Do not begin installation until unacceptable conditions are corrected.

##### 3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Install level.
- C. Anchor securely in place.

##### 3.3 ADJUSTING

- A. Finish Damage: Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.
- B. Component Damage: Remove and replace damaged components that cannot be successfully repaired as determined by Architect.

##### 3.4 CLEANING

- A. Clean products promptly after installation in accordance with manufacturer's instructions.
- B. Do not use harsh cleaning materials or methods that could damage finish.

##### 3.5 PROTECTION

- A. Protect installed product to ensure that, except for normal weathering, racks will be without damage or deterioration at time of Substantial Completion.

Tran Systems

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CONSULTANTS:

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2ND STREET IMPROVEMENTS  
SANTA FE TO WASHINGTON IN OLD TOWN

WICHITA, KANSAS



REVISIONS:	MARK	DATE	DESCRIPTION

PROJ NO: 472-85284  
SCALE: N/A  
DATE: 07/13/2018  
DESIGNED BY: WAWELLS  
DRAWN BY: WAWELLS  
CHECKED BY: JABEST

SHEET TITLE:  
CUSTOM BENCH DETAILS & NOTES

SHEET NO.  
15  
SHEET 15 OF 103