STRUCTURAL GENERAL NOTES **DESIGN NOTES** ALL STRUCTURAL STEEL SHAPES AND PLATES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 270 GRADE 50W (ASTM A709 / ASTM A588 WEATHERING STEEL), UNLESS NOTED OTHERWISE. 2. LOW IMPACT GUARDRAIL DESIGN IN ACCORDANCE WITH OWNER REQUIREMENTS. STEEL DECKING SHALL BE 4.25" DEEP BY 12" LAY LENGTH BY 9 GAUGE "TYPE A" ROLLED FORMED GALVANIZED CORRUGATED STEEL CONFORMING TO ASTM DESIGN LIVE LOAD: TBD A653 GRADE 50. STEEL DECKING SHALL BE INSTALLED PERPENDICULAR TO THE DIRECTION OF THE SUPPORTING GIRDERS. DESIGN IS BASED ON AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 6TH EDITION AND ALL INTERIM REVISIONS. ALL STRUCTURAL STEEL CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH LIVE LOAD DEFLECTION AT MIDSPAN IS L/TBD. BOLTS (ASTM A325X TYPE 3), NUTS (ASTM A563 GR DH3), AND WASHERS (ASTM F436 TYPE 3) CONFORMING TO AASHTO M 164, UNLESS NOTED OTHERWISE. TOTAL BRIDGE WEIGHT: APPROX TBD LB. TYPICAL CONNECTIONS ARE "SNUG TIGHT" BEARING CONNECTIONS WITH INTERIOR MODULE WEIGHT: APPROX TBD LB PER MODULE. STANDARD WASHERS. USE LOAD INDICATOR WASHERS AT ALL BOLTED OUTER MODULE WEIGHT: APPROX TBD LB PER MODULE. DIAPHRAGM SPLICE CONNECTIONS (NOTED AS TCB) OR CONNECTIONS LISTED AS FULLY TENSIONED OR SLIP CRITICAL. LOAD INDICATING DEVICES, DTI'S OR (BRIDGE WEIGHT DOES INCLUDE STEEL DECK BUT DOES NOT INCLUDE GRAVEL SQUIRTER DTI'S, SHALL CONFORM TO ASTM F959. ANCHOR RODS SHALL BALLAST OR FUTURE WEARING SURFACE). CONFORM TO ASTM F1554 GR 36. THE OWNER OR OWNER'S REPRESENTATIVE (SITE ENGINEER OF RECORD) IS RESPONSIBLE FOR THE REVIEW OF BRIDGE STRUCTURE DIMENSIONS AND LAYOUT CERTIFIED MILL TEST REPORTS SHALL BE FURNISHED FOR THE STEEL SHOWN HEREIN. ANY DISCREPANCIES BETWEEN REQUIRED FIELD DIMENSIONS STRINGERS, STRUCTURAL STEEL PLATES AND SHAPES, STEEL BRIDGE AND THOSE SHOWN HEREIN ARE NOT THE RESPONSIBILITY OF TRUENORTH STEEL DECKING, HIGH STRENGTH BOLTS, PLAIN ELASTOMERIC PADS (PEP) AND OR BEAUDETTE CONSULTING ENGINEERS, INC. UNLESS THE DISCREPANCIES HAVE ANCHOR BOLTS, IF REQUIRED BY OWNER. BEEN SPECIFICALLY NOTED WITHIN THIS REVIEW SET OR PREVIOUSLY CONVEYED 6. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.5, BRIDGE WELDING IN WRITING. YOUR SIGNATURE BELOW ACKNOWLEDGES THIS RESPONSIBILITY AND CODE. ALL ELECTRODES SHALL BE E70XX. SERVES AS NOTICE TO PROCEED WITH BRIDGE FABRICATION. PLAIN ELASTOMERIC PADS (PEP) SHALL BE HARDNESS (SHORE A) 60 AND OWNER OR REPRESENTATIVE NAME: SHALL CONFORM TO AASHTO M 251 AND ASTM D4014. OWNER OR REPRESENTATIVE SIGNATURE: EPOXY SHALL BE PER MIL A 81236 (OS), BOND BEARING PAD TO ANCHOR DATE: EXTERIOR SURFACES SHALL BE CLEANED PER SSPC-SP 6 PRIOR TO SHIPMENT TO ASSURE UNIFORM WEATHERING IN ACCORDANCE WITH OWNER REQUIREMENTS. GUARDRAIL SHALL BE 12 GAUGE W-BEAM WEATHERING CONFORMING TO THE REQUIREMENTS OF AASHTO M 180. **MODULAR BRIDGE** 11. BACKWALLS SHALL BE HSS STRUCTURAL TUBING AND SHALL CONFORM TO ASTM A500 GRADE B. BACKWALL SHALL BE PAINTED WITH COROTHANE I, COAL TAR, (BLACK). PLATES SHALL CONFORM TO ASTM A36. PLATE SHALL BE **HANDLING** FASTENED TO HSS STRUCTURAL TUBING WITH HILTI X-U 16 P8 FASTENERS. 12. SUPERSILL STRUCTURAL SHAPES SHALL BE WIDE FLANGE ASTM A588, ANGLES AND PLATES SHALL BE ASTM A36. SUPERSILL SHALL BE PAINTED WITH COROTHANE I, COAL TAR, (BLACK). SUPERSILL SHALL BE FILLED WITH **MODULAR BRIDGE** CONCRETE PRIOR TO BRIDGE SERVICE. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF F'C = 4000 PSI AT 28 DAYS, NORMAL WEIGHT. VEHICLES SHALL NOT BE DRIVEN ON THE BRIDGE FOR A PERIOD OF 7 DAYS AFTER SUPERSILL CONCRETE PLACEMENT. CONTACT ENGINEER OF RECORD FOR FURTHER INFORMATION. SHIPPING & STORAGE 13. THE BOTTOM OF ALL FOOTINGS AND SLABS SHALL BEAR ON SOLID NATIVE, INORGANIC, UNDISTURBED SOIL OR APPROVED COMPACTED FILL. THE FOUNDATION TYPE AND DESIGN CRITERIA ARE BASED ON ASSUMED SOIL LIFTING FORCES MUST BE APPLIED VERTICALLY AND SIMULTANEOUSLY AT CONDITIONS AND PRESUMPTIVE VALUES FROM SECTION 1806 OF THE IBC. BCE PADEYE HANDLING PICK POINTS AS INDICATED. SUGGESTS A PROFESSIONAL GEOTECHNICAL CONSULTANT SHOULD BE HIRED BY THE OWNER AND/OR CONTRACTOR TO VERIFY THESE ASSUMPTIONS. USE SPREADER BAR WHEN HANDLING. ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED TO BE 3000 PSF. LIFTING PIN TO BE WITHIN 1/8" OF PADEYE HOLE SIZE. 14. THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING A STATEMENT OF 4. PADEYE LIFTING CAPACITY: 16.25 KIPS. SPECIAL INSPECTIONS PREPARED BY A REGISTERED DESIGN PROFESSIONAL IN CHARGE PER THE LATEST EDITION OF THE IBC SECTIONS 1704 THROUGH 1710. THE OWNER SHALL EMPLOY ONE OR MORE QUALIFIED SPECIAL SHEET INDEX INSPECTORS TO PROVIDE INSPECTIONS DURING ONSITE INSTALLATION OF THE BRIDGE FOR THE TYPES OF WORK LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS. SHT NO SHEET TITLE STRUCTURAL GENERAL NOTES **BRIDGE PLAN & ELEVATION BRIDGE SECTIONS AND BEARING DETAILS** DETAILS **BACKWALL ELEVATIONS AND DETAILS** SUPERSILL S6 SUPERSILL

08/06/2013

STRUCTURAL

BEAUDETTE

CONSULTING

ENGINEERS, INC.

MISSOULA KALISPELL

BOZEMAN RAPID CITY

PROJECT IDEN.
45'L x 24'W
STANDARD
BRIDGE

(406) 721-7315

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MANAGEMENT

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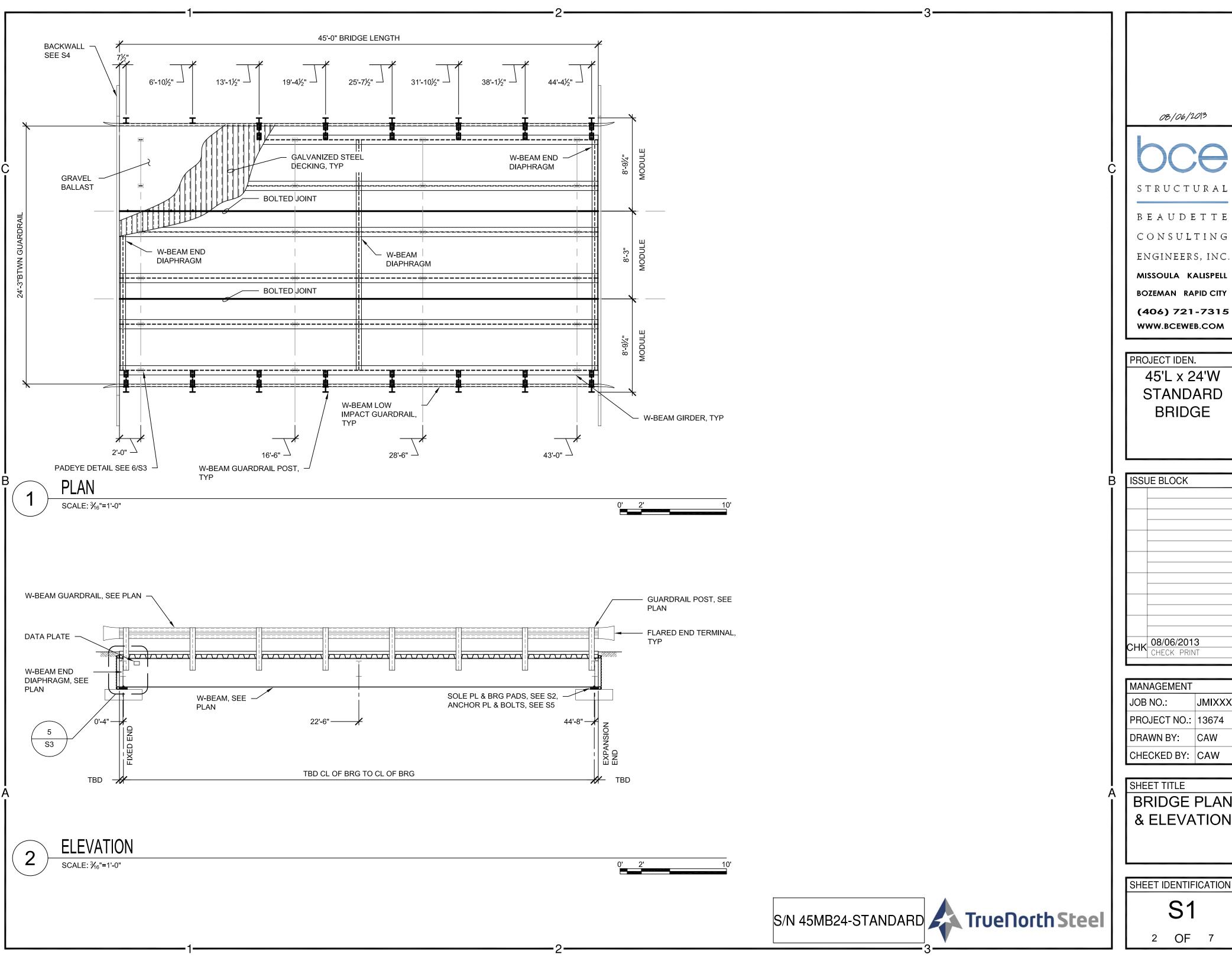
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STRUCTURAL
GENERAL
NOTES

SHEET IDENTIFICATION

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45'L x 24'W STANDARD BRIDGE

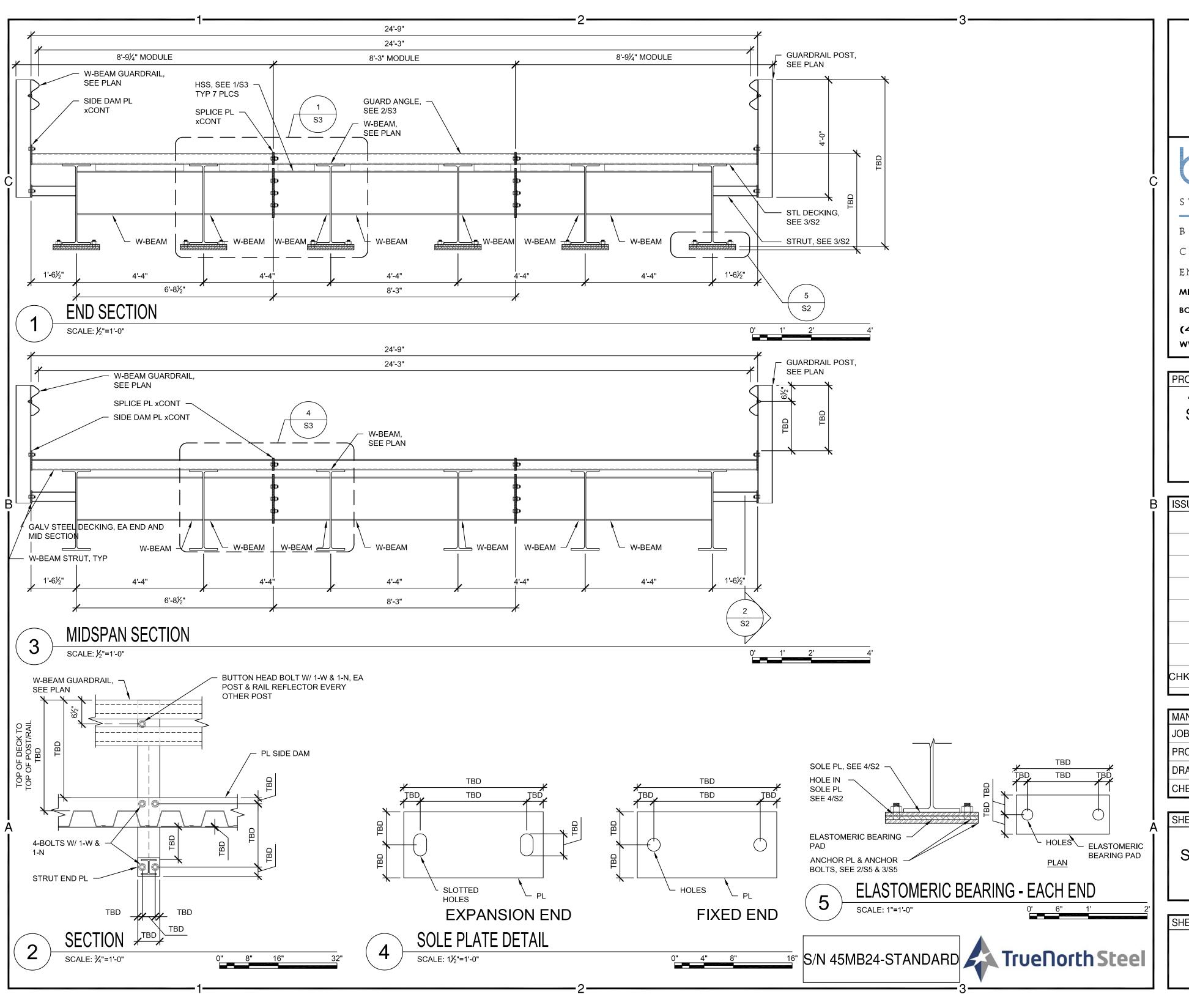
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BRIDGE PLAN & ELEVATION

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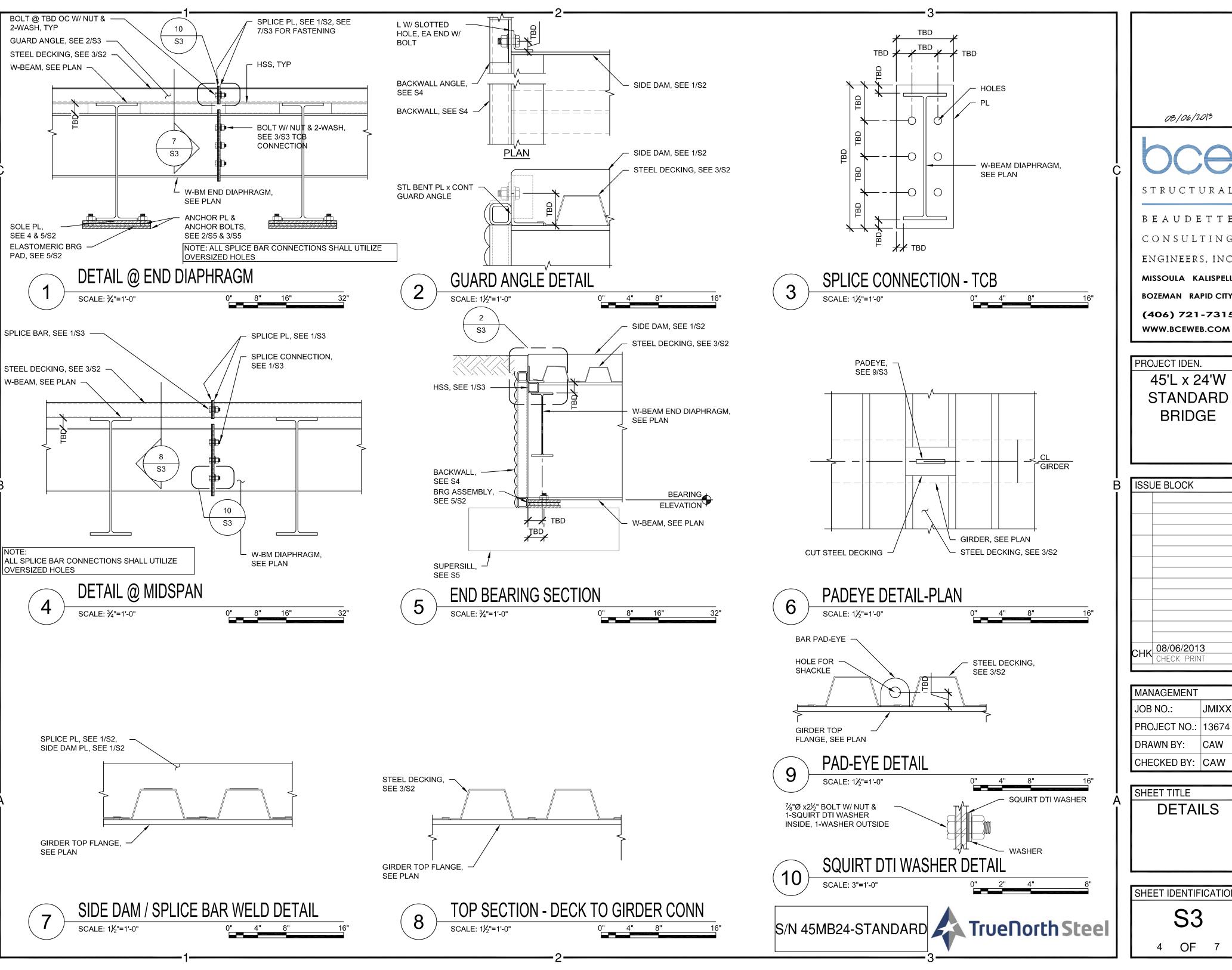
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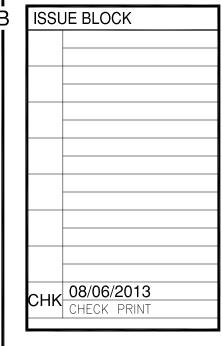
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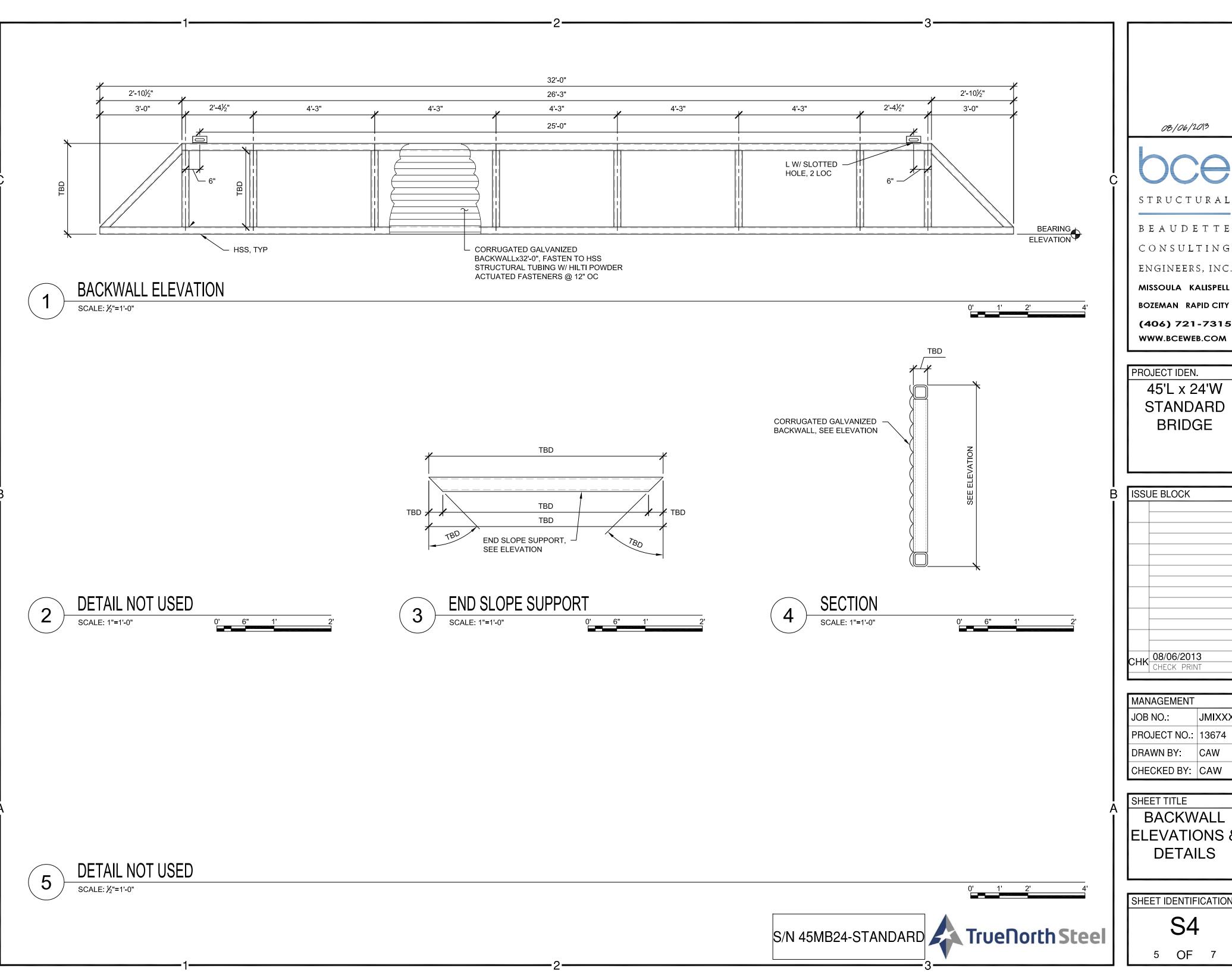
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SHEET TITLE **DETAILS**

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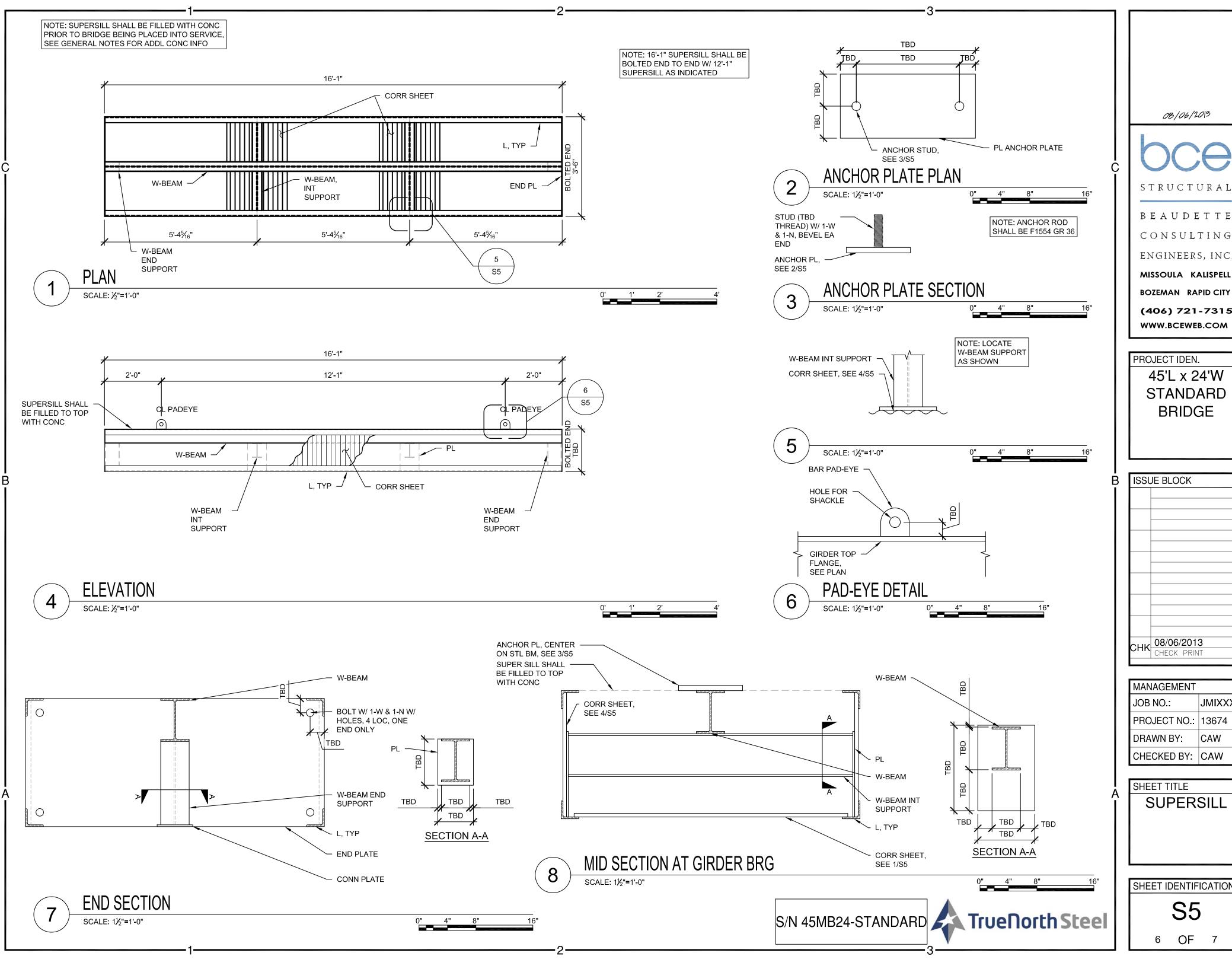


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SHEET TITLE BACKWALL **ELEVATIONS & DETAILS**

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SUPERSILL

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