MANUFACTURED PEDESTRIAN BRIDGE
A. BRIDGE DESIGN SHALL BE STANDARD TRUSS CONSTRUCTED OF WEATHERED HSS STRUCTURAL STEEL WITH A CONCRETE BRIDGE DECK AS SHOWN BELOW.
B. ALL CONSTRUCTION AND DESIGN IS TO BE IN ACCORDANCE WITH THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE (IBC) AS ADOPTED BY THE CITY OF BELLINGHAM.
C. PROVIDE A COMPLETE, INTEGRATED SET OF BRIDGE MANUFACTURER'S STANDARD COMPONENTS THAT FORM A BRIDGE. INCLUDE PRIMARY AND SECONDARY FRAMING AND ACCESSORIES.
D. INFORMATION ON THIS DRAWING ESTABLISHES REQUIREMENTS FOR SYSTEM'S AESTHETIC EFFECTS, AS INDICATED BY SIZES, RELATIONSHIPS AND PROFILES OF COMPONENTS.
1. DO NOT MODIFY INTENDED AESTHETIC EFFECTS, AS JUDGED SOLELY BY PARK PROJECT MANAGER, EXCEPT WITH PRIOR APPROVAL BY PARK PROJECT MANAGER. IF MODIFICATIONS ARE PROPOSED, SUBMIT COMPREHENSIVE EXPLANATORY DATA FOR REVIEW.
E. MANUFACTURER QUALIFICATIONS: A FIRM WITH AT LEAST FIVE YEARS EXPERIENCE IN MANUFACTURING PEDESTRIAN BRIDGE SYSTEMS SIMILAR TO THOSE INDICATED FOR THE PROJECT. THE FIRM SHALL BE AISC CERTIFIED FOR THIS TYPE OF CONSTRUCTION.
F. PROVIDE FRAMING AND DECKING SYSTEMS CAPABLE OF WITHSTANDING THE EFFECTS OF GRAVITY AND ENVIRONMENTAL LOADS AS SPECIFIED BY STRUCTURAL ENGINEER. DESIGN FOR THERMAL MOVEMENTS WITHOUT OVER STRESSING OR FAILURE OF COMPONENTS OR CONNECTIONS.
G. BRIDGE SYSTEM DESIGN: AS SPECIFIED BY STRUCTURAL ENGINEER
1. PRIMARY FRAME TYPE: PARALLEL CHORD TRUSS WITH VERTICAL ENDS BUILT UP OF HSS STEEL SECTIONS AS INDICATED ON DRAWINGS IN PRATT, FINK, OR WARREN WEB CONFIGURATIONS. OVERHEAD (PORTAL) BRACING IS PROHIBITED.
2. PROVIDE FRAME TO HAVE DEPTHS, SPANS, CLEARANCES AND GENERAL CONFIGURATIONS AS SHOWN. NOMINAL CHANGES TO SUIT THE MANUFACTURER'S SYSTEMS WILL BE ACCEPTED PROVIDED THAT THE INSIDE CLEARANCE, MINIMUM SPAN AND REQUIRED TOP OF RAIL HEIGHT WILL NOT CHANGE. THE BRIDGE SHALL BE DESIGNED TO ACCOMMODATE FLOOD STAGE REQUIRED BY THE REGULATORY AGENCIES. NO PORTION OF THE STRUCTURE SHALL BE ALLOWED BELOW BOTTOM OF STEEL ELEVATION AS MANDATED BY THE REGULATORY AGENCIES.
H. DECK SYSTEM DESIGN: THE DECK SYSTEM WILL BE CAST-IN-PLACE OR PRECAST CONCRETE. FINISH SHALL BE MEDIUM-COARSE BROOM FINISH. IF CAST-IN-PLACE IS USED, LEAVE-IN-PLACE FORM SYSTEMS WILL NOT BE PERMITTED.
I. PROVIDE HSS STRUCTURAL STEEL SECTIONS AS INDICATED ON DRAWINGS FOR ABUTMENT REINFORCEMENT AND BRIDGE STEEL.
J. ALL STEEL SHALL BE ASTM A588 OR ASTM A847 WEATHERING STEEL EXCEPT CONCRETE REINFORCEMENT AND PILING.
K. CAMBER SHALL BE AS SPECIFIED BY THE STRUCTURAL ENGINEER.
L. THE BRIDGE SHALL BE DESIGNED FOR VIBRATION.
M. ALL EXPOSED SURFACES OF WEATHERING STEEL SHALL BE CLEANED IN ACCORDANCE WITH SSPC SP-10, COMMERCIAL Blast CLEANING.
N. PROVIDE FRAMING AND FOOTINGS. COORDINATE SIZE AND LOCATION OF CONCRETE FOUNDATIONS AND CASTING OF ANCHOR-BOLT INSERTS INTO FOUNDATION WALLS AND FOOTINGS.
O. DESIGN COMPONENTS TO PRODUCE CLEAN, SMOOTH CUTS AND BENDS. PUNCH HOLES OF PROPER SIZE, SHAPE AND LOCATION.
P. DESIGN AND FABRICATE ALL WEATHERING STEEL PARTS SO AS TO AVOID LOCATIONS WHICH WILL IMPED OR PREVENT DEVELOPMENT OF THE SURFACE OXIDE COATING.
Q. FABRICATE ALL COMPONENTS.

PARKS AND RECREATION DESIGN AND DEVELOPMENT
April 24, 2009

CITY OF BELLINGHAM PEDESTRIAN BRIDGE GENERAL DESIGN & NOTES

DRAWING 5120.01