| В.<br>С.                                                                                                                                                                                                                                                                                                                                  | B. ALL CONSTRUCTION AND DESIGN IS TO BE IN ACCORDANCE WITH THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE (IBC) AS<br>ADOPTED BY THE CITY OF BELLINGHAM.<br>C. PROVIDE A COMPLETE INTEGRATED SET OF BRIDGE MANUFACTURER'S STANDARD COMPONENTS THAT FORM A BRIDGE, INCLUDE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |  |
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| D                                                                                                                                                                                                                                                                                                                                         | PRIMARY AND SECONDARY FRAMING AND ACCESSORIES.<br>D. INFORMATION ON THIS DRAWING ESTABLISHES REQUIREMENTS FOR SYSTEM'S AFSTHETIC FEFECTS. AS INDICATED BY SIZES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |  |
| E.                                                                                                                                                                                                                                                                                                                                        | <ul> <li>RELATIONSHIPS AND PROFILES OF COMPONENTS.</li> <li>DO NOT MODIFY INTENDED AESTHETIC EFFECTS, AS JUDGED SOLELY BY PARK PROJECT MANAGER, EXCEPT WITH PRIOR APPROVAL<br/>BY PARK PROJECT MANAGER. IF MODIFICATIONS ARE PROPOSED, SUBMIT COMPREHENSIVE EXPLANATORY DATA FOR REVIEW.</li> <li>MANUFACTURER QUALIFICATIONS: A FIRM WITH AT LEAST FIVE YEARS EXPERIENCE IN MANUFACTURING PEDESTRIAN BRIDGE SYSTEMS<br/>SIMILAR TO THOSE INDICATED FOR THE PROJECT. THE FIRM SHALL BE AISC CERTIFIED FOR THIS TYPE OF CONSTRUCTION.</li> <li>ENGINEERING RESPONSIBILITY: PROVIDE COMPREHENSIVE ENGINEERING ANALYSIS AND DESIGN BY A QUALIFIED STRUCTURAL</li> </ul>                                                                                                                                                     |                                   |  |
| F.                                                                                                                                                                                                                                                                                                                                        | ENGINEER REGISTERED WITH WASHINGTON STATE (HEREAFTER REFERRED TO AS "STRUCTURAL ENGINEER").<br>PROVIDE FRAMING AND DECKING SYSTEMS CAPABLE OF WITHSTANDING THE EFFECTS OF GRAVITY AND ENVIRONME<br>SPECIFIED BY STRUCTURAL ENGINEER. DESIGN FOR THERMAL MOVEMENTS WITHOUT OVER STRESSING OR FAILURE (<br>CONNECTIONS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NTAL LOADS AS<br>DF COMPONENTS OR |  |
| G.                                                                                                                                                                                                                                                                                                                                        | <ul> <li>G. BRIDGE SYSTEM DESIGN: AS SPECIFIED BY STRUCTURAL ENGINEER</li> <li>1. PRIMARY FRAME TYPE: PARALLEL CHORD TRUSS WITH VERTICAL ENDS BUILT UP OF HSS STEEL SECTIONS AS INDICATED ON<br/>DRAWINGS IN PRATT, FINK, OR WARREN WEB CONFIGURATIONS. OVERHEAD (PORTAL) BRACING IS PROHIBITED.</li> <li>2. DESIGN THE BRIDGE TO HAVE DEPTHS, SPANS, CLEARANCES AND GENERAL CONFIGURATIONS AS SHOWN. NOMINAL CHANGES TO<br/>SUIT THE MANUFACTURER'S SYSTEMS WILL BE ACCEPTED PROVIDED THAT THE INSIDE CLEARANCE, MINIMUM SPAN AND REQUIRED<br/>TOP OF RAIL HEIGHT WILL NOT CHANGE. THE BRIDGE SHALL BE DESIGNED TO ACCOMMODATE FLOOD STAGE REQUIRED BY THE<br/>REGULATORY AGENCIES. NO PORTION OF THE STRUCTURE SHALL BE ALLOWED BELOW BOTTOM OF STEEL ELEVATION AS MANDATED<br/>BY THE REGULATORY AGENCIES.</li> </ul> |                                   |  |
| н.<br>I.                                                                                                                                                                                                                                                                                                                                  | <ul> <li>H. DECK SYSTEM DESIGN: THE DECK SYSTEM WILL BE CAST-IN-PLACE OR PRECAST CONCRETE. FINISH SHALL BE MEDIUM-COARSE<br/>BROOM FINISH. IF CAST-IN-PLACE IS USED, LEAVE-IN-PLACE FORM SYSTEMS WILL NOT BE PERMITTED.</li> <li>1. PLACEMENT OF WET CONCRETE ON THE DECK AFTER THE BRIDGE IS PLACED IN ITS FINAL LOCATION WILL NOT BE PERMITTED.</li> <li>I. PROVIDE FRAMING AND DECKING SYSTEMS CAPABLE OF WITHSTANDING THE EFFECTS OF GRAVITY AND ENVRONMENTAL LOADS AS<br/>INDICATED BY THE STRUCTURE ENVILOPMENTAL LOADS AS</li> </ul>                                                                                                                                                                                                                                                                              |                                   |  |
| REQUIRED BY THE APPLICABLE CODE.<br>J. MINIMUM LIVE LOADS SHALL BE IN ACCORDANCE WITH THE IBC AS ADOPTED BY THE CITY OF BELLINGHAM.<br>K. DESIGN FOR MINIMUM VEHICLE LOAD OF 10,000 POUNDS<br>L. SUBMIT SHOP DRAWINGS FOR ABUTMENT REINFORCEMENT AND BRIDGE STEEL.                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |  |
| M. ALL STEEL SHALL BE ASTM A588 OR ASTM A847 WEATHERING STEEL EXCEPT CONCRETE REINFORCEMENT AND PILING.<br>N. CAMBER SHALL BE AS SPECIFIED BY THE STRUCTURAL ENGINEER.<br>O. THE BRIDGE SHALL BE DESIGNED FOR VIBRATION.                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |  |
| <ul> <li>Q. COMPLY WITH APPLICABLE PROVISIONS OF THE FOLLOWING SPECIFICATIONS AND DOCUMENTS:</li> <li>1. AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS – ALLOWABLE STRESS DESIGN AND PLASTIC"</li> <li>2. ASTM A 6 "SPECIFICATION FOR GENERAL REQUIREMENTS FOR ROLLED STEEL PLATES, SHAPES, SHEETING PILING, AND BARS FOR</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |  |
| STRUCTURAL USE"<br>3. ERECTION TOLERANCES: AISC \$303, "STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"<br>B. ALL EXPOSED SUBJECTS OF WEATURNING STEEL SUAL OF AN ACCORDANCE WITH SERVICE STRUCTURE OF A COMMERCIAL PLAST                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |  |
| R. ALL EXPOSED SURFACES OF WEATHERING STEEL SHALL BE CLEANED IN ACCORDANCE WITH SSPC SP-6, COMMERCIAL BLAST<br>CLEANING.<br>S. DESIGN ABUTMENTS AND FOOTINGS. COORDINATE SIZE AND LOCATION OF CONCRETE FOUNDATIONS AND CASTING OF ANCHOR-BOLT                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |  |
| INSERTS INTO FOUNDATION WALLS AND FOOTINGS.<br>T. DESIGN COMPONENTS AND FABRICATE FRAMING TO PRODUCE CLEAN, SMOOTH CUTS AND BENDS. PUNCH ALL HOLES OF PROPER SIZE,                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |  |
| SHAPE AND LOCATION.<br>U. DESIGN AND FABRICATE ALL WEATHERING STEEL PARTS SO AS TO AVOID LOCATIONS WHICH WILL IMPEDE OR PREVENT DEVELOPMENT<br>OF THE SUBFACE OVIDE CONTING                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |  |
| V. SHOP FABRICATE ALL COMPONENTS                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |  |
|                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |  |
| PRECAST CONCRETE BRIDGE DECK, TYP                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |  |
| HSS STRUCTURAL MEMBERS, TYP<br>SEE DWG 5120.02 FOR SECTION VIEW                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |  |
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| AND/OR PILING BRIDGE ELEVATION AND PILING NOT SHOWN FOR CLARITY<br>SEE DWG 5120.02                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |  |
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| E                                                                                                                                                                                                                                                                                                                                         | PARKS AND RECREATION CITY OF BELLINGHAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DRAWING                           |  |
| DE                                                                                                                                                                                                                                                                                                                                        | SIGN AND DEVELOPMENT PEDESTRIAN BRIDGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5120.01                           |  |
|                                                                                                                                                                                                                                                                                                                                           | April 24, 2009 GENERAL DESIGN & NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |  |

MANUFACTURED PEDESTRIAN BRIDGE A. BRIDGE DESIGN SHALL BE STANDARD TRUSS CONSTRUCTED OF WEATHERED HSS STRUCTURAL STEEL WITH A CONCRETE BRIDGE DECK AS SHOWN BELOW.