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| Michigan Departmentof Transportation0395 (06/19) | **AASHTO / AWS D1.5 – FIELD WELDING PLAN**To be completed by the Contractor and submitted to the Engineer for approval.Naming Convention: 0395 CS-JN YYYY-MM-DD Field Welding Plan.pdf | PAGE1 of    |
| LOCATION       | CONTROL SECTION       | **Bridge Field Services****Approval Block** |
| CONTRACTOR       | JOB NUMBER       |
| WELDING CONTRACTOR       | STRUCTURE #       |
| PREPARED BY       | DATE       |
| **SPECIFICATIONS** |
| The Contractor must comply with the current AASHTO/AWS D1.5 – Bridge Welding Code, (as modified by the current FUSP 12SP707(A) - Structural Steel and Aluminum Construction), subsection 707.03.D.8 of the MDOT Standard Specifications for Construction, and all other contract requirements. |
| **WELD INSPECTION AND TESTING** |
| Test 100% of all welds in accordance with subsection 707.03.C.10 of the MDOT Standard Specifications for Construction and AWS D1.5. The testing must be performed by a Certified Welding Inspector (CWI) qualified as American Society for Nondestructive Testing (ASNT) Level II or Level III on Recommended Practice No. SNT-TC-1A. The Contractor must submit CWI and ASNT certifications to the Engineer prior to beginning the work. Upon completion of testing submit all non-destructive test reports, CWI and ASNT certifications to the Engineer. |
| **SCOPE OF WORK** |
|       |
| **WELDER CREDENTIALS** |
| All welders performing AASHTO/AWS D1.5 bridge welding on MDOT construction projects must be qualified through [MDOT’s Welder Qualification Program](https://www.michigan.gov/documents/mdot/MDOT_Welder_Qualification_Program_653964_7.pdf). Welders qualified through this program will have Form 0396 – Welder Qualification Test Report for each welding process and position they are qualified. The Contractor must submit all welder credentials with this form to the Engineer prior to beginning the work**.** |
| **WELD PROCEDURE SPECIFICATIONS (WPS)** |
| Weld Procedure Specifications (WPS) must be completed by the contractor and submitted to the Engineer for approval. The Contractor must submit all WPS’s with this form to the Engineer for approval prior to beginning the work. The Contractor may complete the WPS’s included as additional pages of this form or may delete the additional pages and attach their own WPS’s to page 1 of this form.  |
| **FORM INSTRUCTIONS** |
| 1. Complete page 1 of Form 0395 and all required WPS’s the for project and save as an Adobe PDF file;
2. Attach Form 0396 – Welder Qualification Test Report for all welders performing the welding;
3. Save Form 0395 with all attachments as follows: 0395 CS-JN YYYY-MM-DD Field Welding Plan.pdf;
4. Submit to the Engineer for approval.
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| Michigan Departmentof Transportation0395 (06/19) | **WELDING PROCEDURE SPECIFICATION (WPS)**To be completed by the Contractor and submitted to the Engineer for approval.Naming Convention: 0395 CS-JN YYYY-MM-DD Field Welding Plan.pdf | PAGE2 of  |
| LOCATION  | CONTROL SECTION  | **Bridge Field Services****Approval Block** |
| WELDING CONTRACTOR  | JOB NUMBER  |
| PROCEDURE # / REVISION #       | STRUCTURE #  |
| PREPARED BY  | DATE  |
| **WELDING INFORMATION** | **JOINT DETAIL** |
| MATERIAL SPECIFICATION |       |  |
| WELDING PROCESS |  |
| WELDING METHOD |  |
| WELDING POSITION |       |
| FILLER METAL SPECIFICATION |       |
| FILLER METAL CLASSIFICATION |       |
| CURRENT/POLARITY |  |
| WELDING PROGRESSION |       |
| ROOT TREATMENT |       |
| PREHEAT SURFACES 3” IN EVERY DIRECTION FROM WELD |
| BASE METAL THICKNESS | PREHEAT TEMPERATURE |
| < 1½” | 250 °F MIN |
| 1½” TO 2½” | 300 °F MIN |
| > 2½” | 400 °F MIN |
| INTERPASS TEMPERATURE | 650 °F MAX |
| **WELDING PROCEDURE** | **WELD INSPECTION AND TESTING** |
| PASSNO. | ELECTRODEDIAMETER | WELDING CURRENT | TRAVELSPEED | [x]  VISUAL TESTING – 100%[ ]  PENETRANT TESTING – 100%[ ]  MAGNETIC PARTICLE TESTING – 100%[ ]  ULTRASONIC TESTING – 100%[ ]  RADIOGRAPHIC TESTING – 100%[ ]  OTHER       |
| AMPERES | VOLTS |
|       |       |       |       |       |
| * Approved Form 0395 must be in the possession of the welder performing the work at the jobsite.
* Welding is not allowed when the ambient air temperature is below 40 °F or during periods of precipitation unless heating and housing the area has been approved by the Engineer.
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| Michigan Departmentof Transportation0395 (10/17) | **WELDING PROCEDURE SPECIFICATION (WPS)**To be completed by the Contractor and submitted to the Engineer for approval.Naming Convention: 0395 CS-JN YYYY-MM-DD Field Welding Plan.pdf | PAGE3 of  |
| LOCATION  | CONTROL SECTION  | **Bridge Field Services****Approval Block** |
| WELDING CONTRACTOR  | JOB NUMBER  |
| PROCEDURE # / REVISION #       | STRUCTURE #  |
| PREPARED BY  | DATE  |
| **WELDING INFORMATION** | **JOINT DETAIL** |
| MATERIAL SPECIFICATION |       |  |
| WELDING PROCESS |  |
| WELDING METHOD |  |
| WELDING POSITION |       |
| FILLER METAL SPECIFICATION |       |
| FILLER METAL CLASSIFICATION |       |
| CURRENT/POLARITY |  |
| WELDING PROGRESSION |       |
| ROOT TREATMENT |       |
| PREHEAT SURFACES 3” IN EVERY DIRECTION FROM WELD |
| BASE METAL THICKNESS | PREHEAT TEMPERATURE |
| < 1½” | 250 °F MIN |
| 1½” TO 2½” | 300 °F MIN |
| > 2½” | 400 °F MIN |
| INTERPASS TEMPERATURE | 650 °F MAX |
| **WELDING PROCEDURE** | **WELD INSPECTION AND TESTING** |
| PASSNO. | ELECTRODEDIAMETER | WELDING CURRENT | TRAVELSPEED | [x]  VISUAL TESTING – 100%[ ]  PENETRANT TESTING – 100%[ ]  MAGNETIC PARTICLE TESTING – 100%[ ]  ULTRASONIC TESTING – 100%[ ]  RADIOGRAPHIC TESTING – 100%[ ]  OTHER       |
| AMPERES | VOLTS |
|       |       |       |       |       |
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| Michigan Departmentof Transportation0395 (10/17) | **WELDING PROCEDURE SPECIFICATION (WPS)**To be completed by the Contractor and submitted to the Engineer for approval.Naming Convention: 0395 CS-JN YYYY-MM-DD Field Welding Plan.pdf | PAGE4 of  |
| LOCATION  | CONTROL SECTION  | **Bridge Field Services****Approval Block** |
| WELDING CONTRACTOR  | JOB NUMBER  |
| PROCEDURE # / REVISION #       | STRUCTURE #  |
| PREPARED BY  | DATE  |
| **WELDING INFORMATION** | **JOINT DETAIL** |
| MATERIAL SPECIFICATION |       |  |
| WELDING PROCESS |  |
| WELDING METHOD |  |
| WELDING POSITION |       |
| FILLER METAL SPECIFICATION |       |
| FILLER METAL CLASSIFICATION |       |
| CURRENT/POLARITY |  |
| WELDING PROGRESSION |       |
| ROOT TREATMENT |       |
| PREHEAT SURFACES 3” IN EVERY DIRECTION FROM WELD |
| BASE METAL THICKNESS | PREHEAT TEMPERATURE |
| < 1½” | 250 °F MIN |
| 1½” TO 2½” | 300 °F MIN |
| > 2½” | 400 °F MIN |
| INTERPASS TEMPERATURE | 650 °F MAX |
| **WELDING PROCEDURE** | **WELD INSPECTION AND TESTING** |
| PASSNO. | ELECTRODEDIAMETER | WELDING CURRENT | TRAVELSPEED | [x]  VISUAL TESTING – 100%[ ]  PENETRANT TESTING – 100%[ ]  MAGNETIC PARTICLE TESTING – 100%[ ]  ULTRASONIC TESTING – 100%[ ]  RADIOGRAPHIC TESTING – 100%[ ]  OTHER       |
| AMPERES | VOLTS |
|       |       |       |       |       |
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| Michigan Departmentof Transportation0395 (10/17) | **WELDING PROCEDURE SPECIFICATION (WPS)**To be completed by the Contractor and submitted to the Engineer for approval.Naming Convention: 0395 CS-JN YYYY-MM-DD Field Welding Plan.pdf | PAGE5 of  |
| LOCATION  | CONTROL SECTION  | **Bridge Field Services****Approval Block** |
| WELDING CONTRACTOR  | JOB NUMBER  |
| PROCEDURE # / REVISION #       | STRUCTURE #  |
| PREPARED BY  | DATE  |
| **WELDING INFORMATION** | **JOINT DETAIL** |
| MATERIAL SPECIFICATION |       |  |
| WELDING PROCESS |  |
| WELDING METHOD |  |
| WELDING POSITION |       |
| FILLER METAL SPECIFICATION |       |
| FILLER METAL CLASSIFICATION |       |
| CURRENT/POLARITY |  |
| WELDING PROGRESSION |       |
| ROOT TREATMENT |       |
| PREHEAT SURFACES 3” IN EVERY DIRECTION FROM WELD |
| BASE METAL THICKNESS | PREHEAT TEMPERATURE |
| < 1½” | 250 °F MIN |
| 1½” TO 2½” | 300 °F MIN |
| > 2½” | 400 °F MIN |
| INTERPASS TEMPERATURE | 650 °F MAX |
| **WELDING PROCEDURE** | **WELD INSPECTION AND TESTING** |
| PASSNO. | ELECTRODEDIAMETER | WELDING CURRENT | TRAVELSPEED | [x]  VISUAL TESTING – 100%[ ]  PENETRANT TESTING – 100%[ ]  MAGNETIC PARTICLE TESTING – 100%[ ]  ULTRASONIC TESTING – 100%[ ]  RADIOGRAPHIC TESTING – 100%[ ]  OTHER       |
| AMPERES | VOLTS |
|       |       |       |       |       |
| * Approved Form 0395 must be in the possession of the welder performing the work at the jobsite.
* Welding is not allowed when the ambient air temperature is below 40 °F or during periods of precipitation unless heating and housing the area has been approved by the Engineer.
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