Midland County Road Commission
Midland, Michigan
Shaffer Road Bridge Over Bliss Creek Reconstruction

JN: 201251A  CS: 56000
FED ITEM: RTQ741  FED. #: ER-1756(016)

NOTES:
The work covered in these plans includes roadway work, earth excavation, removal of the culverts, construction of the proposed bridge, grading, maintenance of traffic (if any), fencing, placing granular material, slope protection, and appurtenant.

The contractor shall locate all active underground utilities prior to starting work and shall conduct his operations in such a manner as to ensure that these utilities not requiring relocation, as not be disturbed. There are several existing utilities exposed from the existing. Contractor shall cooperate with all utilities companies to maintain utilities to remain and place utilities in embankment.

Shaffer Road traffic is to be detoured over other existing roads.

Plan Elevation refer to plans.

WATER LOSS if subject to charge. The contractor is responsible for making a determination of water levels that may exist during construction.

MEASURES SHALL BE TAKEN TO PREVENT DEBRIS IN WATERWAY. If debris falls into the waterway, it shall be removed within 24 hours. If debris is present, the present condition investigation, maintenance, and operation of waterways shall be placed on the adjacent embankment slopes.

The design of this structure is based on 1.2 times the current adopted lift bridge design specification H-45 load with the exception that the design of beam portion of the H-45 load condition shall be replaced by a single 60 kip axled load before application of this 1.2 factor. The resulting load is designed to be the combined load plus dynamic load allowance deflection does not exceed 1/1000 of span length.

The design of the structural members is based on material of the following grades and stress:
- Prestressed Concrete: 50,000 psi
- Steel Reinforcement: 60,000 psi

The total force in the transverse post-tensioning tendons shall be 120,000 lbs. Each, locate post-tensioning ducts at J points of beams.

M.O.T. STANDARD PLANS

<table>
<thead>
<tr>
<th>TITLE</th>
<th>PLAN NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Comments and Explanations</td>
<td>R-103-E</td>
</tr>
<tr>
<td>General Types A, B, C, D, E, F, G, H</td>
<td>R-103-A</td>
</tr>
<tr>
<td>Soil, Erosion &amp; Sedimentation Control Measures</td>
<td>R-103-D</td>
</tr>
<tr>
<td>Seeding and Tree Planting</td>
<td>R-103-H</td>
</tr>
<tr>
<td>Grading cross-sections</td>
<td>R-103-D</td>
</tr>
</tbody>
</table>

* Special Details

M.O.T. WORK ZONE DEVICES

<table>
<thead>
<tr>
<th>TITLE</th>
<th>PLAN NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground Driven Sign Supports for Temp Signs</td>
<td>W22-100-A</td>
</tr>
<tr>
<td>Temporary Traffic Control Devices</td>
<td>W22-125-E</td>
</tr>
</tbody>
</table>

Location Map

Project Location

Traffic Data

<table>
<thead>
<tr>
<th>FORM NO.</th>
<th>HSN. A.S.T.</th>
<th>2017-2027</th>
<th>HSN. M.A.T.</th>
</tr>
</thead>
<tbody>
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<td>1106.72</td>
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</tr>
</tbody>
</table>

Contractor:

OHM

CRAIG D. SCHROPPSMA
Engineer

Registration No. 48098
9/12/17

Project No. 5025-17-0010
1 of 12

Survey and the supervision of:

CRAIG D. SCHROPPSMA

Registration No. 48098
9/12/17

Project No. 5025-17-0010
1 of 12