The following standard plates approved by the Minnesota Dept. of Transportation and the Federal Highway Administration shall apply on this project.

<table>
<thead>
<tr>
<th>PLATE NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>8106B</td>
<td>EQUIPMENT PAD B</td>
</tr>
<tr>
<td>8127C</td>
<td>LIGHT FOUNDATION DESIGN E</td>
</tr>
<tr>
<td>8129A</td>
<td>SHIM AND WASHER</td>
</tr>
</tbody>
</table>

Statement of estimated quantities

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>UNIT</th>
<th>S.P. 8825-494 ESTIMATED QUANTITIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>2545.501</td>
<td>LUMP SUM</td>
<td>1</td>
</tr>
<tr>
<td>2545.501</td>
<td>LUMP SUM</td>
<td>1</td>
</tr>
</tbody>
</table>

Electric Light System A = ELM CREEK REST AREA
Electric Light System B = FOREST LAKE REST AREA
USE THE MAXIMUM DISTANCE WHenever POSSIBLE.
IF THE MINIMUM DISTANCE CANNOT BE OBTAINED
CONTACT THE DISTRICT/DIVISION TRAFFIC ENGINEER
LIGHT BASES SHALL BE PLACED IN ACCORDANCE
WITH 2545.3F2.
DISTANCES SHALL BE MEASURED FROM THE
EDGE OF DRIVING LANE OR TURN LANE.

FILL AROUND FOUNDATION TOP WITH
EXCAVATED DIRT, GRADE DIRT LEVEL
WITH BOTTOM OF CONCRETE CHAMFER.

LIGHTING PLACEMENT DETAIL
APPLIES TO LIGHTS X1, X2, X3, X6, X7, X8,
X17, X18, X19, X20, X21, X22, H1, H2, H3, H4,

NOTE: DOORS SHOULD BE MOUNTED
160 DEGREES CLOCKWISE
FROM THE MAST ARM

STAINLESS STEEL
HIGH BASE
ALUMINUM
TRANSFORMER BASE

LIGHT FOUNDATION DESIGN E
STANDARD PLATE 8127

LIGHTING UNIT TYPE 9-40
(BREAKAWAY)
LIGHTS X1, X2, X3, X6, X7, X8, X17, X18, X19, X20, X21, X22,

RADIUS CHART (ENGLISH)

<table>
<thead>
<tr>
<th>MAST ARM LENGTH</th>
<th>RADIUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>5</td>
</tr>
<tr>
<td>9</td>
<td>8</td>
</tr>
<tr>
<td>12</td>
<td>10</td>
</tr>
</tbody>
</table>
STAINLESS STEEL OR ALUMINUM

NOTE: DOORS SHOULD BE MOUNTED 90 DEGREES COUNTERCLOCKWISE FROM THE MAINLINE MAST ARM.

LIGHTING UNIT TYPE 9D-40
(LIGHTS X9 & X14)

STAINLESS STEEL
HIGH BASE
ALUMINUM
TRANSFORMER BASE
LIGHT FOUNDATION
DESIGN E
STANDARD PLATE 8127

40' MOUNTING HEIGHT LED LUMINAIRE WITH WIRE HOLDER

NOTE: LIGHT UNITS MATCH LUMINAIRE AND ALL PAINTED BRONZE TO STAINLESS STEEL POLE

LIGHTING UNIT TYPE 9X-30

(LIGHTS X4 & X5)

LED REST AREA PARKING LOT LUMINAIRE WITH WIRE HOLDER

STAINLESS STEEL POLE
PAINTED BRONZE TO MATCH LUMINAIRE AND ALL LIGHTING UNITS

NOTE: DOORS SHOULD BE MOUNTED 180 DEGREES CLOCKWISE FROM THE MAST ARM.

LIGHTING UNIT TYPE IX-15

LIGHT FOUNDATION DESIGN P

(TO BE USED WITH LIGHTING UNIT TYPE IX-15)

LIGHTS X10, X11, X12, X13, X32, X33, X34, X35,
X36, X37, X38, X39, X40, X41, X42, X43, X44, X45,
X46, X47, X48, X49, X50, H33, H34, H35, H36, H37,
H38, H39, H40, H41, H42, H43 & H44.

NOTE: DOORS SHOULD BE MOUNTED
180 DEGREES CLOCKWISE
FROM THE LUMINAIRE.

DRAWN BY:  CKD BY:  DATE:  LIG. NO.

CERTIFIED BY  LICENSED PROFESSIONAL ENGINEER  DATE: 22-APR-2015

STATE PROJ.NO. 8825-494  SHEET NO. 6 OF 27 SHEETS

LIGHTING DETAILS
LIGHTING PLAN (ELM CREEK - SYSTEM A)

T.H. 94 W.B.

FEEDPOINT: A14X
LOCATION: T.H. 94
METER ADDRESS: 8600 HIGHWAY 94 MAPLE LAKE, 55331

CERTIFIED BY: LIC. NO. 24682 DATE: 22-APR-2015

STATE PROJ.NO. 8825-494 SHEET NO. 10 OF 27 SHEETS

SCALE IN FEET
NOTE: SEE SHEET 10 FOR LEGEND
NOTE: SEE SHEET 10 FOR LEGEND