**SIGNAL CABLES DROP TO CABINET MAST**

- **ANCHOR**
- **3 - BOLT GUY CLAMPS**
- **SERVING SLEEVE**
- **VARIABLE WEATHER-PROOF SPLICE BOX**
- **STRAIN RELIEF INSULATOR**
- **TWISTED LOOP**
- **DEAD-ENDS OR 3-BOLT CLAMPS**
- **WOOD POLE**
- **DRIP LOOP**
- **STRAIN RELIEVED**
- **COILED SIGNAL CABLE**
- **10' MIN. CABLE GUARD**
- **12' MIN. CABLE GUARD**
- **18' MIN. IF SUBJECT TO VEHICLE TRAFFIC**

---

**GENERAL NOTES**

1. **WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.**
2. **SIGNAL FACES:**
   - A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   - B. EACH SHALL CONTAIN A 5" WIDE BLACK POLYCARBONATE BACKPLATE.
   - C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   - D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 3 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
3. **SPAN WIRE:**
   - A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   - B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   - C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.

---

**SPAN WIRE TEMPORARY SIGNALS**

- **WOOD POLE**
- **STREET LIGHT ARM**
- **COILED SIGNAL CABLE**
- **Drip Loop**
- **Strain Relieved**
- **CONDUCTOR DEAD-END OR WEDGE CLAMP WITH DRIVE HOOK**
- **7' GUY WIRE GUARD INSTALLED ON ALL GUY WIRE ANCHOR CABLES**
- **17' MIN. CABLE GUARD**
- **17' MIN. TO SUBJECT SIGNAL ASSEMBLY FROM THE HIGHEST POINT OF THE ROADWAY**
- **8' TO 10' MAX. FROM ROADWAY EDGE**
- **3 - BOLT GUY CLAMPS**
- **TWIN EYE AT GRADE**
- **WOOD POLES MOUNTED 11' MIN. TO BOTTOM OF SIGNAL ASSEMBLY FROM THE HIGHEST POINT OF THE ROADWAY**

---

**MINIMUM POLE LENGTHS**

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>DEPTH</th>
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<tbody>
<tr>
<td>20'</td>
<td>6'</td>
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<tr>
<td>30'</td>
<td>7'</td>
</tr>
<tr>
<td>40'</td>
<td>9'</td>
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**DETAIL "A"**
Span Wire Temporary Traffic Signal

References:
NONE

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Design Notes:
NONE

Contact Person:
Ahmet Demirbilek (414) 220-6801
1. Wood poles shall be Class 4. Length determined by signal plan.

2. Signal faces:
   A. All sections shall be 12" and polycarbonate.
   B. Each shall contain a 5" wide dull black polycarbonate backplate.
   C. Each shall be wired from the top signal mounting bracket.
   D. Near right signal face suspended on the tether (no backplate) shall not be over the traveled way if the pole is within 5 feet of the traveled way mount.
   E. Fair indication shall be maintained over center of traffic lane.

3. Span wire:
   A. Each span wire shall be individually down guyed.
   B. Signal and lighting cables shall only be attached to the upper span wire.
   C. The signal assembly shall have a 17' min. height above the roadway.

4. Pole burial depths:

<table>
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<tr>
<th>Minimum Pole Lengths</th>
<th>Class</th>
<th>Pole Burial Depths</th>
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<tr>
<td>20</td>
<td>V</td>
<td>5</td>
</tr>
<tr>
<td>30</td>
<td>V</td>
<td>6</td>
</tr>
<tr>
<td>35</td>
<td>IV</td>
<td>7</td>
</tr>
<tr>
<td>40</td>
<td>IV</td>
<td>8</td>
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<tr>
<td>45</td>
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General Notes:

Details of construction, materials and workmanship not shown on this drawing shall conform to the pertinent requirements of the contract.

Sketch showing details of construction, materials and workmanship not shown on this drawing shall conform to the pertinent requirements of the contract.
References:
NONE

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Design Notes:
NONE

Contact Person:
Ahmet Demirbilek (414) 220-6801
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.

2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.

3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.

GENERAL NOTES

MINIMUM POLE LENGTHS

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

APPROVED

STATE ELECTRICAL ENGINEER

June 2015
Ahmet Demerbilek

STATE ELECTRICAL ENGINEER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

APPROVED

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June 2015
Ahmet Demerbilek

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June 2015
Ahmet Demerbilek
References:
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Design Notes:
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Contact Person:
Ahmet Demirbilek (414) 220-6801
References:
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Other SDDs associated with this drawing:

SDD 9G1 Span Wire Temporary Traffic Signal sheets "e", "f" and "g"

Design Notes:

SDD 9G1 sheets "a", "b" or "c" or any combination of these SDD's must be included with this drawing.

Contact Person:
Ahmet Demirbilek (414) 220-6801
1. Use 3/4" drill in wood pole to provide for 5/8" bolts.
2. Safety loop required on each end of all span wires.

Typical Dead-Endings or Guying:

- Span Wire Pole
- Guy Pole

General Notes:

- Safety loop required on each end of all span wires.
- Use 3/4" drill in wood pole to provide for 5/8" bolts.
- 3-Bolt Clamps
- Curved Washer
- Oval Eye Bolt
- Angle Thimble Eye
- Angle Thimble Eye Bolt
- Serving Sleeve
- Guy Safety Marker
- Curved Washer
- Thimble Eye Bolt
- Serving Sleeve
- 3-Bolt Clamps
- Guy Strain Insulator 6 feet from top of down guy

Approved by:
Ahmet Demerbilek

State of Wisconsin
Department of Transportation

Roadway Standards Development Engineer

Approval Date: June 2015

FHWA

SDD 09G01-e  Span Wire Temporary Traffic Signal
References:
NONE

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Design Notes:

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Contact Person:

Ahmet Demirbilek (414) 220-6801
UPPER SPAN WIRE

4" X 4"
GRADE

SPAN WIRE CLAMP
BALANCE ADJUSTER
(WF NEEDED)

WIRE ENTRANCE

SPAN WIRE CLAMP
BALANCE ADJUSTER
(WF NEEDED)

WIRE ENTRANCE

SPAN WIRE CLAMP
BALANCE ADJUSTER
(WF NEEDED)

WIRE ENTRANCE

SPAN WIRE CLAMP
BALANCE ADJUSTER
(WF NEEDED)

WIRE ENTRANCE

OPTION 1
TETHER CLAMP ASSEMBLY OPTION

TYPICAL SPAN WIRE MOUNTING HARDWARE

LOWER TETHER WIRE

TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL

LOWER SPAN WIRE

SPAN WIRE

SPAN WIRE CLAMP
BALANCE ADJUSTER
(WF NEEDED)

WIRE ENTRANCE

SPAN WIRE CLAMP
BALANCE ADJUSTER
(WF NEEDED)

WIRE ENTRANCE

SPAN WIRE CLAMP
BALANCE ADJUSTER
(WF NEEDED)

WIRE ENTRANCE

TETHER CLAMP ASSEMBLY

TETHER WIRE

5 SECTION VERTICAL WITH 3 SECTION VERTICAL ON ONE SPAN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

DATE

FHWA
ROADWAY STANDARDS DEVELOPMENT ENGINEER

June 2015
Ahmet Demerbilek

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

ADDRESS FOR REPRINT REPRODUCTION

SDD 09G01-f Span Wire Temporary Traffic Signal
References:
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Contact Person:
Ahmet Demirbilek (414)220-6801
SPAN WIRE B
MEDIAN POLE
WOOD
CORNER POLES
SPAN WIRES
ALL DOWN OR SIDEWALK GUYS SHALL BE INSTALLED IN THE OPPOSITE DIRECTION OF THE STRAIN OF THE SPAN WIRE

CABINET
PLYWOOD BASE
4' X 4" WOOD POSTS
2" BUSHING OR 2" PVC BELL END
GRADE
TETHER WIRE
SECURE CABLES TO POLE AT 2 INTERVALS
CABLE DRIP LOOP (STRAIN RELIEVED)
SIGNAL CABLE

PVC CABLE GUARDED OR CONDUIT

4' X 4" WOOD POSTS
CHASE NIPPLE ENTRANCE PERMITTED ONLY ON BOTTOM OF BOX

SIGNAL CABLE WITH DRIP LOOPS
SIGNAL CABLE
GLAND TYPE CONNECTOR
WEDGE CLAMP
MOUNT EACH BRACKET WITH TWO 3/8" STAINLESS STEEL BANDS
WIRE FROM TOP WITH WATER PROOF CONNECTOR
4" X 1/2 ALUMINUM STANDARD
4" X 4" POSTS
SAND BAG BALLASTS
3/4" X 36" X 36" EXTERIOR GRADE PLYWOOD

SIGNAL CABLE
SIGNAL CABLE
WITH DRIP LOOPS
SIGNAL CABLE

SIGNAL CABLE
6" X 8" X 4" MIN.
SPLICE BOX
6" X 8" X 4" MIN.
GLAND TYPE CONNECTOR
SIGNAL CABLE

WIRE FROM TOP WITH WATER PROOF CONNECTOR
4" X 1/2 ALUMINUM STANDARD
4" X 4" POSTS
SAND BAG BALLASTS
3/4" X 36" X 36" EXTERIOR GRADE PLYWOOD

TYPICAL SKID TYPE TEMPORARY

SPAN WIRE TEMPORARY TRAFFIC SIGNAL
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
APPROVED
DATE
ROADWAY STANDARDS DEVELOPMENT ENGINEER
/S/
FHWA
Ahmet Demerbilek
JUNE 2015

SPAN WIRE A
SPAN WIRE B
SPAN WIRE A
SPAN WIRE B
WEDGE CLAMP
MOUNT EACH BRACKET WITH TWO 3/8" STAINLESS STEEL BANDS
WIRE FROM TOP WITH WATER PROOF CONNECTOR
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