

## STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS

### I. INTRODUCTION

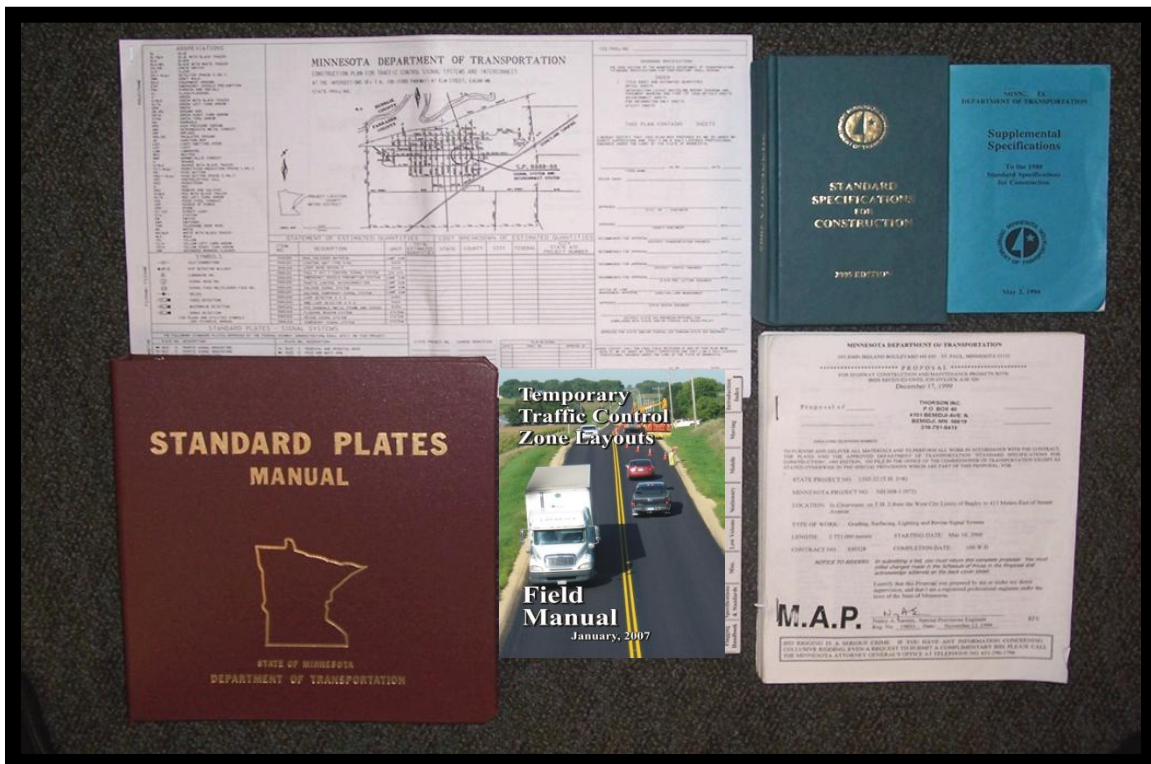
The Contractor is required to comply with the following Contract documents whenever bidding on and constructing a traffic signal system or street lighting system:

- The Contract Proposal.
- The Plan.
- Supplemental Specifications.
- Mn/DOT's "Standard Specifications for Construction" Book.
- Standard Plates.
- Temporary Traffic Control Field Manual.

This session will cover three of these documents:

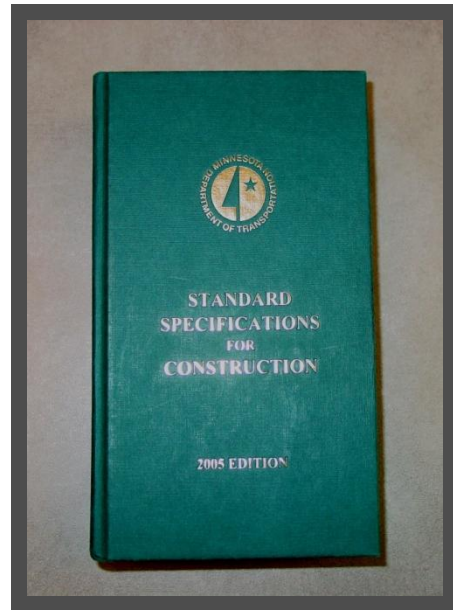
- The Mn/DOT Standard Specifications for Construction Book
- The Supplemental Specifications, and
- The Contract Proposal

The Plan, the Standard Plates, and the Temporary Traffic Control field Manual will be covered in other chapters.



**II. The Mn/DOT “Standard Specifications for Construction Book”**

This book will be referred to henceforth as the “Spec Book”. It is a collection of provisions, and requirements pertaining to the performance of work. The Spec Book contains three divisions:



**A. DIVISION I — General Requirements and Covenants**

Each Division I Specification number begins with “1” (1101 - 1911). Note that each section of Division I is given a numeric series. For example, Control of work is the 1500 series (1501 - 1517). This Division is divided into nine (9) sections, the following is a closer look at two of these sections:

DIVISION I	
GENERAL REQUIREMENTS AND COVENANTS	
	Page
<b>Definitions and Terms</b>	
1101 Abbreviations.....	1
1103 Definitions.....	4
<b>Bidding Requirements and Conditions</b>	
1201 Prequalification of Bidders.....	18
1202 Contents of Proposal Form.....	18
1203 Issuance of Proposal Forms.....	18
1204 Interpretation of Quantities in Bid Schedule.....	18
1205 Examination of Plans, Specifications, Special Provisions, and Site of Work.....	19
1206 Preparation of Proposal.....	20
1207 Irregular Proposals.....	21
1208 Proposal Guaranty.....	22
1209 Delivery of Proposals.....	22
1210 Withdrawal or Revision of Proposals.....	23
1211 Combination or Conditional Proposals.....	23
1212 Public Opening of Proposals.....	24
1213 Disqualification of Bidders.....	24
<b>Bidding Requirements and Covenants</b>	
1301 Consideration of Proposals.....	25
1302 Award of Contract.....	25
1303 Cancellation of Award.....	26
1304 Return of Proposal Guaranty.....	26
1305 Requirement of Contract Bond.....	26
1306 Execution and Approval of Contract.....	26
1307 Failure to Execute Contract.....	27
<b>Scope of Work</b>	
1401 Intent of Contract.....	28
1402 Alteration of the Work and Changed Condition.....	29
1403 Extra Work.....	32
1404 Maintenance of Traffic.....	33
1405 Use of Materials Found on the Project.....	35
1406 Preservation of Historical Objects.....	35
1407 Final Cleanup.....	36
1408 Value Engineering Incentive.....	36

**1. 1103- Definitions of Terms**

Some examples are:

*Engineer:*

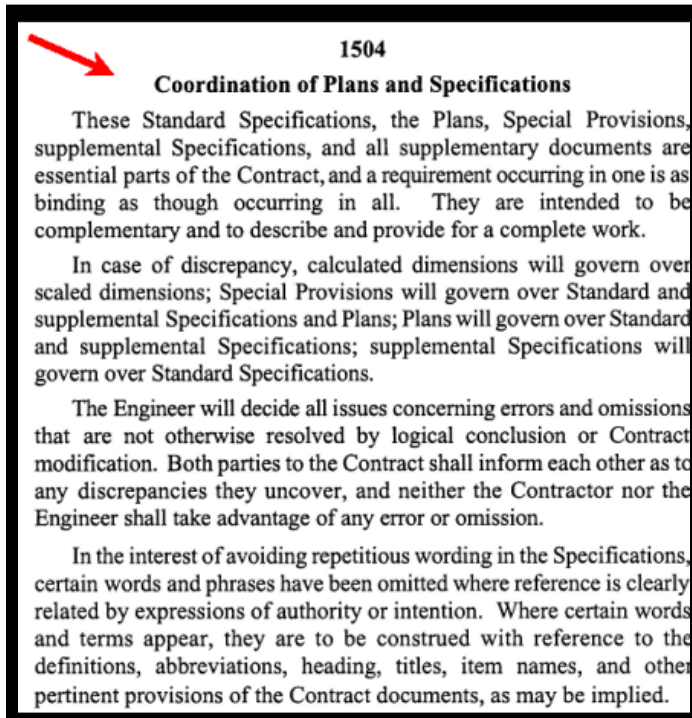
“The duly authorized engineering representative of the Contracting Authority, acting directly or through the designated representatives who have been delegated responsibility for engineering supervision of the construction, each acting within the delegated scope of duties and authority .”

*Inspector:*

“The Engineer’s authorized representative assigned to make detailed inspections of Contract performance.”

The terms “shall” or “must” (not defined in the Spec Book) means that the action or condition is mandatory.

## 2. 1500 - Control of Work



An example under this section is Specification 1504 — Coordination of Plans and Specifications:

“These Standard Specifications, the Plans, Special Provisions, supplemental Specifications and all supplementary documents are essential parts of the Contract, and a requirement occurring in one is as binding as though occurring in all. They are intended to be complementary and to describe and provide for a complete work.

“In case of discrepancy, calculated dimensions shall govern over scaled dimensions; Special Provisions will govern over Standard and Supplemental Specifications and Plans; Plans will govern over Standard and Supplemental Specifications; Supplemental Specifications will govern over Standard Specifications.”

### B. DIVISION II — Construction Details

Each Division II Specification number begins with “2” (2021 - 2582) and as in Division I, each section is given a numeric series. This Division is divided into six sections:


1. General (2021 - 2051)
2. Grading (2101 - 2131)
3. Base Construction (2201- 2232)
4. Pavement Construction (2301 - 2360)
5. Bridges and Structures (2401 - 2481)
6. Miscellaneous (2501 - 2582)

The Miscellaneous Construction section contains 2545 - Electric Lighting Systems and 2565 - Traffic Control Signals. Each Section is broken down similarly, therefore a detailed discussion of 2565 is presented here.

Mn/DOT 2565 is divided into the following sections:

- 1. 2565.1 Description
- 2. 2565.2 Materials
- 3. 2565.3 Construction Requirements
- 4. 2565.4 Method of Measurement
- 5. 2565.5 Basis of Payment

**2565**  
**Traffic Control Signals**

**2565.1 DESCRIPTION** 


**A General**

This work includes furnishing and installing materials and electrical equipment, or installing Department furnished materials and electrical equipment, or both, to provide a complete, operating signal system.

These Specifications also apply to: revised signal system, temporary signal system, automatic traffic recorder (ATR) system, temporary bridge signal system, conduit system, detector system, materials for a future signal system, interconnection system, flashing beacon system, emergency vehicle pre-emption (EVP) or combinations thereof, all as specified in the Contract.

**B Definitions**

Definitions of words and phrases pertaining to traffic control signal systems and related type work are as defined in the standards of ITE, in the Minnesota Manual on Uniform Traffic Control Devices (MMUTCD), 1101, and 1103. Definitions of words and phrases in conjunction with traffic signal control equipment and controller units are defined in the National Electrical Manufacturers Association (NEMA) Standards Publication for "Traffic Control Systems". The definitions in the above referenced publications shall govern unless otherwise defined in these Specifications or in the Special Provisions.

**2565.2 MATERIALS** 

**A General**

**A1 Regulations and Code**

All electrical equipment to be furnished shall conform to the standards of the requirements of the NEMA; the Underwriters' Laboratories, Inc. (UL); or the Electronic Industries Association (EIA), whichever is applicable.

Materials, electrical equipment, and workmanship shall conform to the National Electrical Code (NEC), the standards of the American Society of Testing and Materials (ASTM), the standards of the American National Standards Institute (ANSI), the standards of the Institute of Transportation Engineers (ITE), and to local laws and ordinances that apply.

All electrical conductors shall be copper and all wire sizes for electrical conductors shall be based on the American Wire Gauge (AWG).

**A2 Materials and Electrical Equipment List**

The Contractor shall submit to the Engineer, within 15 calendar days following the date of the Award of Contract, a list of all materials and electrical equipment to be furnished by the Contractor. The list

The following is a quick look at each of them:

**Description of Work**

This section describes the required work, and other types of systems governed by these Specifications

**Materials**

This section covers such items as:

General material specifications (such as regulations, code, material samples for testing, etc.), conduit and accessories, references to materials in Division III, etc.

**Construction Requirements**

practices and workmanship. All materials and electrical equipment shall be approved by the Engineer before installation.

**2565.3 CONSTRUCTION REQUIREMENTS**

**A General**

The location of component parts (including pedestrian curb ramps), as indicated in the Contract, are approximate only. The exact locations will be established by the Engineer.

This section of 2565 specifies the requirements of the actual construction of a traffic signal system.

Please note that some of these specifications refer to other specifications in other sections of the Spec Book. For example: "Permits and Inspections" refers to Mn/DOT 1702 (Permits, Licenses, and Taxes). You will find this type of referral throughout the Spec Book and also on applicable Detail Drawings, Standard plates, etc.

**Method of Measurement**

This section explains how the components of a traffic control signal system will be measured for payment:

**2565.4 METHOD OF MEASUREMENT**

The new traffic control signal system will be measured as an integral unit complete in place and operating with the complete installation at one intersection being considered as one unit.

**Basis of Payment**

This section explains how the traffic control signal system will be paid for:

**2565.5 BASIS OF PAYMENT**

A new traffic control signal system will be paid for on the basis of the following:

Item No.	Item	Unit
2565.511	Traffic Control Signal System	Signal System

The two sections of 2545 (Electric lighting Systems) that differ quite a lot from 2565 (Traffic Control Signals) is in the Method of Measurement and Basis of Payment Sections. Roadway lighting systems can be paid for as a complete system or as individual components. Mn/DOT typically measures and pays for roadway lighting systems as individually itemized components. The Spec Book lists both “complete systems” and as individual system components. The following is an example of how 2545 lists items as individual components:

**2545.4 METHOD OF MEASUREMENT**

Lighting Units

Lighting units of each type of mounting and fixture design will be measured separately by the number of units of each type, complete in place.

Luminaires

Luminaires of each type and wattage will be measure separately by the number of luminaries complete in place.

Armored Cable

Armored cable of each kind and size will be measured separately by the length between end terminals along the centerline of the wire as actually installed.

**2545.5 BASIS OF PAYMENT**

Payment for electrical systems will be made on the basis of the following schedule:

<b>Item No.</b>	<b>Item</b>	<b>Unit</b>
2545.511	Lighting Unit, Type	Each
2545.513	Luminaires	Each
2545.533	Armored cable, ___ Conductor no ____	meter (linear foot)

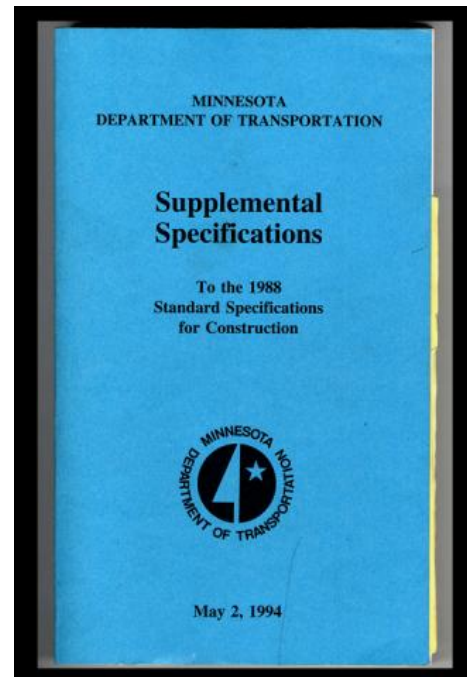
**C. DIVISION III — Materials**

<b>DIVISION III</b>	
<b>MATERIALS</b>	
<b>Cementing Materials</b>	
3101	Portland Cement ..... 801
3102	Ground Granulated Blast Furnace Slag Cement ..... 801
3103	Portland-Pozzolan Cement ..... 801
3105	Bagged Portland Cement Concrete Patching Mix Grade 3U18 ..... 802
3106	Hydrated Lime ..... 803
3107	Masonry Cement ..... 803
3113	Admixtures for Concrete ..... 804
3115	(METRIC PREFERRED) Fly Ash for Use in Portland Cement Concrete ..... 806

Each Division III Specification number begins with “3” (3101 - 3973) and as in Divisions I and II, each section is given a numeric series. This Division is divided into eighteen sections. Mn/DOT 2545 and 2565 cross references various sections of this Division. The section most commonly referred to, as far as traffic signal and roadway lighting systems are concerned, are sections 3801 to 3850 (Electrical Materials).

**III. SUPPLEMENTAL SPECIFICATIONS**

These are additions and revisions to the Standard Specifications that are approved after the Spec Book has been printed and distributed. They are published separately (usually in paperback booklet form) until the next updated Spec book is published and released. The Plan and Proposal for the specific Project will state if there are supplemental specifications that apply.



**IV. OTHER SPECIFICATIONS**

There are a number of instances where documents will refer the Contractor to other areas within the Spec Book. An example of this is the Pole and Mast Arm Standard Plate:

Note K, on Standard Plate No. 8123, refers the Contractor to Spec 2471 Structural Metals which specifies the requirements for fabrication of the pole and mast arm.

**V. THE PROPOSAL**

Each project has a proposal. The following information is printed on the front cover of the proposal:

- Name and address of the contractor awarded the contract
- State project number
- Governing Specifications
- Contract Number
- Location of work
- Starting and completion dates

On the back cover of the proposal additional information is printed. These include bid amount, signatures, etc.

The following list includes items contained within the Proposal:

- Addendums
- Notice to Bidders
- Drawings and details
- Special Provisions by Division: Division S, Division SS, Division SL, etc.
- Attachments
- Schedule of Prices

Special Provisions are additions and revisions to the Standard and Supplemental Specifications covering conditions peculiar to an individual project.” Special Provisions are just that; “Special Provisions.” If an item is adequately specified in the Spec Book, Plans, Standard Plate, or other Contract documents, then it is not to be duplicated in the Special Provisions.

In the Proposal, the Special Provisions for traffic control signal systems are located in Division SS and Special Provisions for roadway lighting systems are located in Division SL.. Division SS and Division SL may contain two or more Sections. For example:

<b><u>SIGNALS</u></b>		<b><u>LIGHTING</u></b>	
SS-1	Qualification of Workers	SL-1	Qualifications of Workers
SS-2	Traffic Control Signals	SL-2	Removing Miscellaneous Structures
SS-3	Traffic Control Interconnection	SL-3	Electric Lighting Systems
	... and so on.		... and so on

MINNESOTA DEPARTMENT OF TRANSPORTATION  
395 JOHN IRELAND BOULEVARD MS 650 ST. PAUL, MINNESOTA 55155

\*\*\*\*\* P R O P O S A L \*\*\*\*\*  
FOR HIGHWAY CONSTRUCTION AND MAINTENANCE PROJECTS WITH  
BIDS RECEIVED UNTIL 9:30 O'CLOCK A.M. ON

Proposal of \_\_\_\_\_  
(NAME OF FIRM)

\_\_\_\_\_  
(ADDRESS)

\_\_\_\_\_  
(AREA CODE-TELEPHONE NUMBER)

TO FURNISH AND DELIVER ALL MATERIALS AND TO PERFORM ALL WORK IN ACCORDANCE WITH THE CONTRACT, THE PLANS AND THE APPROVED DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2005 EDITION"(USING English UNITS), ON FILE IN THE OFFICE OF THE COMMISSIONER OF TRANSPORTATION EXCEPT AS STATED OTHERWISE IN THE SPECIAL PROVISIONS, WHICH ARE PART OF THIS PROPOSAL, FOR:

STATE PROJECT NO. \_\_\_\_\_  
MINNESOTA PROJECT NO. \_\_\_\_\_  
LOCATION: \_\_\_\_\_  
TYPE OF WORK: \_\_\_\_\_  
LENGTH: \_\_\_\_\_  
STARTING DATE: \_\_\_\_\_ COMPLETION DATE: \_\_\_\_\_

**NOTICE TO BIDDERS:** If you are submitting a bid via "Two Way Electronic" bidding, you need not return the hard copy proposal (all other requirements shall remain in effect). If you are utilizing ANY OTHER ACCEPTED METHOD OF BID SUBMITTAL, YOU MUST RETURN THE DOCUMENTS INDICATED IN 1209. You must initial changes made in the "Schedule of Prices" and acknowledge addenda on Form 21126D, which is attached to the back of this proposal.

I certify that this Proposal was prepared by me or under my direct supervision, and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

\_\_\_\_\_  
Special Provisions Engineer  
Lic. No. \_\_\_\_\_ Date: \_\_\_\_\_

BID RIGGING IS A SERIOUS CRIME. IF YOU HAVE ANY INFORMATION CONCERNING COLLUSIVE BIDDING, EVEN A REQUEST TO SUBMIT A COMPLIMENTARY BID, PLEASE CALL THE MINNESOTA ATTORNEY GENERAL'S OFFICE AT TELEPHONE NO. 651-296-1796

*This document is available in alternative formats to individuals with disabilities by calling 1-800-818-6869 or through the Minnesota Relay Service at 1-800-627-3529, vice at 1-800-627-3529.*

Each Section of Division SS and Division SL is setup in a format similar to the Spec Book format.

Let's look at Division SS (Traffic Signal Systems) as an example:

SS-2.1	General Section.
SS-2.2	Materials Section.
SS-2.3	Construction Requirements
SS-2.4	Measurement and Payment.

Division SS may include detail drawings that are pertinent to the specific project. This same format is used for other types of Division SS systems: Revise Signal System, Flashing Beacon System, Loop Detector Replacement, etc.

Mn/DOT has developed an Approved Products List (APL) for most signal and lighting components. The Special Provisions will refer Contractors to the Mn/DOT (APL) for those materials.

The following is a closer look at a typical set of Special Provisions for a typical traffic signal system.....

### SS-1 QUALIFICATIONS OF WORKERS

This section requires Certification for all Contractors, Supervisors or Foremen involved in the field installation of the Traffic Signals.



### SS-1 (1802) QUALIFICATION OF WORKERS

The provisions of Mn/DOT Specification 1802 are hereby supplemented with the following:

Signal and lighting Certification will be required for all Contractors, Supervisors, or Foreman involved in the field installation of the Traffic Signal and/or Lighting portion of this project. Signal and Lighting Certification, Level II, is available through the Mn/DOT Technical Certification Program. Questions regarding certification or past certification may be directed to the Technical Certification Specialist at telephone number: (651) 366-4201.

Certified Contractor personnel shall be on the Project work site at all times to perform or directly supervise the installation of a Traffic Signal System or a Lighting system.

**SS-2 TRAFFIC CONTROL SIGNALS**

Description Paragraph:

This section describes the work, the location, and the rules, which govern the work.

**SS-2 (2565) TRAFFIC CONTROL SIGNALS**

This work shall consist of furnishing and installing materials and electrical equipment and installing Department furnished materials as specified herein, all to provide three complete operating new hardwire interconnected coordinated full-traffic-actuated traffic control signal systems ---

1. SYSTEM "A" --- At the intersection of Prairie Center Drive and Technology Drive in Eden Prairie, Hennepin County, and
2. SYSTEM "B" --- At the intersection of T.H. 212 (South Ramp) and West 78th Street in Eden Prairie, Hennepin County, and
3. SYSTEM "C" --- At the intersection of T.H. 212 (North Ramps) and Plaza Drive in Eden Prairie, Hennepin County,

--- in accordance with the applicable provisions of Mn/DOT 2565; with the current edition of the National Electrical Code; with the Plans; and as follows:



#### SS-2.2 GENERAL

A. The Department will furnish to the Contractor (at no expense to the Contractor) the following materials and electrical equipment for the Contractor to install:

1. One (1) traffic signal cabinet complete with actuated controller unit and all required signal control equipment.
2. Four (4) sets of anchor rods, nuts, and washers to mount the Department furnished traffic signal cabinet (one set = 1 anchor rod, nut, and washer).
3. One (1) 4-section rubber gasket to be installed by the Contractor between the bottom of the traffic signal cabinet and the concrete foundation.

#### SS-2.1 General

If the Department is furnishing to the Contractor any signal components, a list of the material to be furnished would be included in this section. This section also includes a list of the material that the Contractor is required to furnish and install in order to complete the installation of the Department furnished material. It also indicates the requirements of the contractor for picking up the Department furnished materials. Mn/DOT only furnishes traffic signal cabinets and non-intrusive detection units (for temporary signal systems). At times, other items will be furnished and they will be described in the Special Provisions for each individual project.

All Department furnished materials shall be requested at least thirty (30) normal working days in advance of the time the Contractor needs them on the project.

It's the Contractors responsibility to deliver components that need to be installed within the Department furnished traffic signal cabinet to Mn/DOT Electrical Services Unit (ESU) at least thirty (30) normal working days in advance of when the Department furnished traffic signal cabinet is required to be on the job site.

To obtain Department furnished material, the Contractor must provide ESU with the T.E. Number for this project. The T.E. Number is located in this section of the special provisions and in the plan (See Chapter 4). The T.E. Number must be marked on the container of any components required to be delivered to ESU.

Other items that may be included in this section are:

- Notes to bidders
- Special insurance language for projects involving Hennepin County
- Information dealing with any agreements with Cities or Counties

**SS-2.2 Material**

This section covers any Special Provisions that deal with materials. For example:

**1. Material Ordering**

Within 15 days after the Contract approval notice mailing date, the Contractor shall furnish evidence to the Engineer, in writing, that orders have been placed for all signal system components required on the project.

**2. Conduit**

On most Mn/DOT projects, the Contractor may have the option of using either rigid PVC conduit or rigid steel conduit. The specific requirements for both types of conduit are included in the Contract documents.

**3. Emergency Vehicle Pre-Emption (EVP) Equipment**

Mn/DOT has recently made some revisions to the EVP specifications in the Spec Book, as a result, those new revisions will be included in the Special Provisions. EVP is paid for as a separate pay item.

**4. Vehicle and Pedestrian Signal Faces**

Mn/DOT requires the use of “Symbol” (International) pedestrian signal faces; as a result the requirement for these pedestrian signal faces will be included in the Contract documents.

Mn/DOT is specifying “LED” vehicle and pedestrian signal indications unless otherwise specified in the Contract documents. On these projects the requirements for “LED” vehicle and pedestrian signal indications will be included in the Contract documents.



### 5. Service Equipment

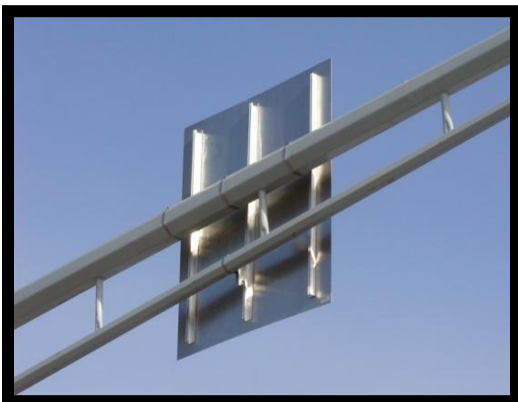
Mn/DOT signal system projects require a Signal Service Cabinet Type SSB. The Contract documents will refer the Contractor to the Mn/DOT Approved Products List (APL) for signals, where signal service cabinets are located.

### 6. Blank

The letters “I” and “O” are usually not used in either the Spec Book or the Special Provisions. As a result, the word “Blank” follows the letter in both cases.

### 7. Pavement Markings

Some Mn/DOT Districts require pavement markings to be furnished and installed as part of the signal system construction. If this is the case, the requirements are specified in this section of the Special Provisions and a number of attachments are included within the Contract proposal.



### 8. Mast Arm Signs

If the contract requires the Contractor to furnish and install mast arm mounted signs, most requirements are contained in the Plan and Spec Book, however, the Special Provisions may have additional requirements.

**SS-2.3 CONSTRUCTION REQUIREMENTS****1. Conduit Placement**

In addition to the language in the Spec Book, some Mn/DOT Districts may have additional requirements for conduit placement. They are included in the Special Provisions.

**2. Equipment Pad Concrete Foundations**

The installation requirements for equipment pad concrete foundations are detailed in the Plan and specified in the Special Provisions.



### 3. Loop Detector Installation

The Special Provisions will refer the Contractor to the Standard Plates for all installation requirements of either saw cut loop detectors or loop detectors in preformed rigid PVC Conduit.



The Special Provisions will refer the Contractor to the Mn/DOT Approved Products List (APL) for the approved loop detector splices and loop detector sealant material to be used.

### 4. Removals

When an existing traffic signal system is to be removed, the removal requirements are specified in the Special Provisions. The Provisions also specify where salvaged equipment is to be delivered.



**SS-2.4 Measurement and Payment****SS-2.4 MEASUREMENT AND PAYMENT**

**Removing and salvaging, or disposing of the existing traffic control signal system; furnishing and installing materials and electrical equipment; and installing Department furnished materials as specified herein, all to provide a complete operating new full-traffic-actuated traffic control signal system at the intersection of T.H 100 (Ford Parkway) and Elm Street in Eagan, Dakota County as contained in these Special Provisions and in the Plans will be measured as an integral unit and paid for as specified in Mn/DOT 2565.4 and Mn/DOT 2565.5 respectively for Item No. 2565.511 (TRAFFIC CONTROL SIGNAL SYSTEM).**

The Special Provisions will specify the methods of measuring and paying for Contract items.

For Example:

2565.511	Traffic Control Signal System
2565.601	Traffic control Interconnection
2565.601	Emergency Vehicle Preemption System

**SS-3 TRAFFIC CONTROL INTERCONNECTION**

If the Project requires that signal systems be interconnected, some requirements are specified in the Special Provisions. This item will be paid for as a separate pay item and the requirements will be a separate SS Section from the actual signal system.



These are some “samples” of items that will be included in a typical set of Special Provisions for a traffic control signal system. Each project is unique and will require additional items not listed here. New technology, changes to the Spec Book, etc. will also be included within the Special Provisions.

**It is very important that Contractors and agency inspectors are aware of what is contained, in both the traffic signal system and roadway lighting system, Special Provisions for each individual project.**

## VI. ADDENDUMS

At times, it may become necessary to provide **additional information, corrections, additions, or deletions** to the Special Provisions, Plans, and/or Spec Book after the Project is put on sale, but before the actual letting of the Project. This information is provided to bidders by creating an “Addendum.”

### *What is an Addendum?*

“A supplement to the proposal form as originally issued or printed, covering additions, corrections, or changes in the bidding conditions for the advertised work, that is issued by the Contracting Authority to prospective bidders prior to the date set for opening proposals.”

Addendums are found in the front portion of the contract proposal.

Minnesota Department of Transportation  
 Transportation Building  
 395 John Ireland Blvd, M.S. 692  
 St Paul, MN 55155

Pre Letting Services  
 Tel: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 Date: \_\_\_\_\_

TO: All Planholders of Record  
 SUBJECT: State Project No.  
 Minnesota Project No.  
 Addendum No.  
 Date of Letting: \_\_\_\_\_

A) The Minnesota Department of Labor and Industry Prevailing Wages for State Funded Construction Projects for Construction Type: Highway and Heavy, Region: 01, Effective: 2008-10-20 are hereby deleted from the Proposal.

The attached Minnesota Department of Labor and Industry Prevailing Wages for State Funded Construction Projects for Construction Type: Highway and Heavy, Region: 01, Effective: 2008-10-20, Revised: 2009-08-11 are hereby added to the Proposal.

B) General Decision MN20080005 published 06/26/2009 is hereby deleted from the Proposal and the attached General Decision MN20080005 published 08/14/2009 is substituted therefore.

C) The following is added to Section S-25 of the Special Provisions:

S-25.5 The provisions of Mn/DOT 1803 are modified to the extent that the initial "Progress Schedule", and all subsequent updated progress schedules, shall be in the form of a Critical Path Diagram (CPM). This critical path diagram progress schedule shall be sufficiently detailed to accurately reflect the complexity and numerous construction operations of this Project to the satisfaction of the Engineer.

Bidders shall acknowledge the receipt of this addendum according to the provisions of Mn/DOT 1210.

Sincerely,  
 State Design Engineer

## VII. SHOP DRAWINGS

The Contractor must provide to the Engineer shop drawings as specified in the Contract documents. These Shop drawings are required to be reviewed and signed off by the appropriate Mn/DOT personnel prior to the Contractor procuring the material unless otherwise specified in the Contract documents.