

WOODS COUNTY PURCHASING  
407 GOVERNMENT ST. / P O BOX 386  
ALVA, OK 73717  
PHONE 327-0998  
FAX 327-6222

---

**NOTICE TO BIDDERS**

THE BOARD OF COUNTY COMMISSIONERS OF WOODS COUNTY,  
OKLAHOMA WILL ACCEPT SEALED BIDS FOR THE FOLLOWING:

**Cold In-Place Recycling  
5 miles on County Rd 460  
Bid No. 17-18-03**

PLEASE CALL THE DISTRICT 3 SHED AT 580.824.5201 OR  
COMMISSIONER JOHN SMILEY AT 580.334.6553 WITH ANY  
QUESTIONS. BID PACKETS MAY BE OBTAINED IN THE OFFICE OF  
THE COUNTY CLERK (580) 327-0998. BIDS WILL BE OPENED AT  
THE BOARD OF COMMISSIONERS MEETING ON THURSDAY,  
**AUGUST 31, 2017 @ 10:00 A.M.** THE BOARD RESERVES THE RIGHT  
TO REJECT OR ACCEPT ANY AND ALL BIDS. NON-COLLUSION  
AFFIDAVIT IS REQUIRED. WORKER'S COMPENSATION COVERAGE  
CERTIFICATE IS REQUIRED WHERE APPLICABLE.

---

2 X 2 AD

PLEASE PUBLISH **ONCE**: FREEDOM CALL  
THURSDAY, AUGUST 10, 2017

SEND STATEMENT TO:

WOODS COUNTY COURTHOUSE  
ATTN: Jennifer Schafer  
P. O. BOX 386  
ALVA, OK 73717

CONTRACT DOCUMENTS  
AND  
PLANS AND SPECIFICATIONS

for

NS-246 COLD IN-PLACE RECYCLING  
BID NO. 17-18-03

for

Woods County  
State of Oklahoma

August 2017

## TABLE OF CONTENTS

Invitation to Bid

Proposal

Non-Collusion Affidavit

Business Relationships Affidavit

Contract

Maintenance Bond

Performance Bond

Statutory Bond

Notice to Proceed

Invoice Affidavit

\* Division I - General Provisions

\* Technical Specifications

\* See ODOT 2009 Standard Specifications for Highway Construction

Woods County, Oklahoma  
**COUNTY PURCHASING OFFICE**  
Woods County Courthouse  
407 Government Street  
Alva, OK 73717  
Phone: 580-327-2126

**INVITATION TO BID**

PLEASE REVIEW TERMS AND CONDITIONS ON REVERSE SIDE RELATING TO SUBMISSION OF THIS BID.				DATE ISSUED	
Notarized Affidavit completions and signature required on reverse side.				Page 1 of <u>  2  </u>	
BID NUMBER 17-18-03		BID CLOSING DATE AND HOUR Thursday August 31, 2017 at 10:00 a.m.		REQUIRED DELIVERY DATE  _____ Days after award of Purchase Order	
TERMS: Bidding documents shall be obtained from the Woods County Courthouse. Bids will be opened during the commissioners meeting on Thursday, August 31, 2017 at 10:00 am.				DATE OF DELIVERY:	
Item	Quantity	Unit of Issue	Description	Unit Price	Total
			NS-246 Cold In-Place Recycling		

TERMS AND CONDITIONS

1. Sealed bids will be opened in the Commissioners Conference Room, Woods County Courthouse, 407 Government Street, Alva, OK 73717 at the time and date shown on the invitation to bid form.
2. Late bids will not be considered. Bids must be received in sealed envelopes (one to an envelope) with bid number and closing date written on the outside of each envelope.
3. Unit prices will be guaranteed correct by the bidder.
4. Firm prices will be F.O.B. destination.
5. Purchases by Woods County, Oklahoma are not subject to state or federal taxes.
6. This bid is submitted as a legal offer and any bid when accepted by the County constitutes a firm contract.
7. Oklahoma laws require each bidder submitting a bid to a county for goods or services to furnish a notarized sworn statement of non-collusion. A form is supplied below.
8. Bids will be firm until \_\_\_\_\_  
(Date)

**AFFIDAVIT:** I, the undersigned, of lawful age, being first duly sworn on oath say that he (she) is the agent authorized by the bidder to submit the above bid. Affiant further states that the bidder has not been a party to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding; or with any state official or employee as to quantity; quality or price in the prospective contract or any other terms of said prospective contract; or in any discussions between bidders and any state official concerning exchange of money or other thing of value for special consideration in the letting of a contract; that the bidder/contractor has not paid, given or donated or agreed to pay, give or donate to any officer or employee of the State of Oklahoma (or other entity) any money or other thing of value, either directly or indirectly in the procuring of the award of a contract pursuant to this bid.

Subscribed and sworn before this \_\_\_\_\_ day  
of \_\_\_\_\_, 20\_\_\_\_\_.

(SEAL)

Firm: \_\_\_\_\_

My commission expires: \_\_\_\_\_

Signed by: \_\_\_\_\_ Title: \_\_\_\_\_  
(Manual Signature of Undersigned)

\_\_\_\_\_  
NOTARY PUBLIC (CLERK OR JUDGE)

Address: \_\_\_\_\_ Phone: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_

Zip: \_\_\_\_\_

## PROPOSAL

TO: Woods County Commissioners  
Woods County, Oklahoma

Gentlemen:

Pursuant to the notice inviting proposals, the undersigned bidder herewith submits his proposal.

He declares he has carefully examined the Plans, Specifications and forms of Contract and bonds as set forth in the proceedings for:

**Woods County**  
**NS-246 COLD IN-PLACE RECYCLING**  
**Bid No. 17-18-03**

and that he has reached a full understanding of everything required on said Plans and Specifications, and that he has informed himself as to the kind and quantities of various materials to be furnished and/or the nature and location of the work to be done, and all other matters affecting the work.

The undersigned bidder proposes and agrees that if his proposal is accepted, to enter into contract with the County, on forms prescribed, with approved sureties, within seven (7) days, after notice of award to execute the Contract, and to furnish to the County a satisfactory Performance and Statutory Bond in the sum of 100% of the contract price, guaranteeing the faithful performance of the work and payment of bills.

To do any extra work not covered by the following schedule of prices or stipulated lump sum price which may be ordered by the Engineer and to accept as full compensation therefor such prices as may be agreed upon in writing by the Engineer and the Contractor in accordance with Section 108.04 of the General Provisions.

It is further agreed that the Contractor shall begin the work on the date indicated in the Notice to Proceed and to prosecute said work in such a manner as to complete all work contracted for by **September 22, 2017**.

The Contractor shall take out and maintain public liability insurance in accordance with Section 106.25 of the General Provisions of the Specifications. A copy of said Specifications is now on file in the Office of the County Clerk.

Upon completion of the Contract, the Contractor shall furnish to the County a satisfactory Maintenance Bond in the amount of 100% of the final contract price, guaranteeing the maintenance of the work for a period of **ONE** (1) year after acceptance by the County.

Accompanying this proposal is a proposal guaranty for 5% of the total bid, payable to Woods County, which is to be forfeited, as liquidated damages, if, in the event that this proposal is accepted, the undersigned shall fail to execute the contract and furnish satisfactory contract bond under the conditions and within the time specified in this proposal. Otherwise said proposal guaranty is to be returned to the undersigned.

P-1

**PROPOSAL**  
**Woods County**  
**NS-246 COLD IN-PLACE RECYCLING**  
**Bid No. 17-18-03**

Item No.	Description	Unit	Quantity	Unit Price	Total Price
1	Cold In-Place Recycle	S.Y.	58,793.00		
2	Cement	Ton	106.00		
3	Asphalt Emulsion	Ton	318.00		
Total					









\_\_\_\_\_  
\_\_\_\_\_

(if none, so state)

Further, Affiant saith not.

\_\_\_\_\_  
Signature of Authorized Agent

\_\_\_\_\_  
Title (printed)

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

(SEAL)

My commission expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public

## CONSTRUCTION CONTRACT

This Contract is made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between  
Woods County, Oklahoma hereinafter called "County and  
\_\_\_\_\_, a(n) \_\_\_\_\_  
hereinafter called "Contractor."

### WITNESSETH

WHEREAS, in accordance with the state law and the Public Competitive Bidding act of 1974, 61 Okla. Stat. §§ 101 et seq. (hereinafter collectively referred to as "state law"), the County has caused to be prepared certain plans, specifications, and other bidding documents (the "Bidding Documents") for the work hereinafter described; and,

WHEREAS, in accordance with state law, the County has approved and adopted all of said Bidding Documents and has caused an Invitation to Bid to be given and advertised and has received sealed bids for the furnishing of all labor and materials for:

**Woods County**  
**NS-246 COLD IN-PLACE RECYCLING**  
**Bid No. 17-18-03**

as outlined and set out in the Bidding Documents and in accordance with the terms and provisions of this Contract; and,

WHEREAS, Contractor, in response to said Invitation to Bid, has submitted to the County, in the manner and at the time specified, a sealed bid in accordance with the terms of the Bidding Documents; and,

WHEREAS, the County, in the manner provided by state law, has publicly opened, examined and canvassed the bids submitted and has determined and declared the above-named Contractor to be the lowest responsible bidder on the above described project; and,

WHEREAS, the County has duly awarded this Contract to said Contractor, for the sum named in the bid, to-wit:

**Dollars and Cents spelled out here (\$ . . . ).**

NOW THEREFORE, in consideration of the mutual promises, covenants, and conditions herein stated and in consideration of the mutual benefits, which will accrue to the parties, the sufficiency of which is acknowledged by the parties, the parties agree as follows:

1. Incorporation of Bidding Documents. This Contract hereby incorporates, as if fully set out herein, the Plans, Specifications, General Provisions, Special Provisions, Contractor's Proposal and any and all Addendums issued. All of these documents have been provided to and/or by the Contractor and are on file in the Office of the County Clerk. Hereinafter, these documents shall be collectively referred to as "Bidding Documents."

2. Engagement of Contractor. The County hereby engages Contractor to perform certain construction services for the benefit of the County. Contractor accepts such engagement pursuant to the terms and conditions set forth herein.
3. Scope of Engagement. Contractor shall, in a good and first-class, workmanlike manner, at its own cost and expense, furnish all labor, materials, tools and equipment required to perform and complete said work in strict accordance with the Bidding Documents, with the following additions and/or exceptions: (if none, so state.)

(NONE)

4. Payments to Contractor. The County shall make payments to the Contractor in the following manner:
  - a. On or about the first (1st) day of each month, the Engineer, or other appropriate person, will make accurate estimates of the value, based on contract prices, of the work done and materials incorporated in the work and of materials suitably stored at the site thereof during the preceding calendar month. The Contractor shall furnish to the Engineer such detailed information as he may request to aid him as a guide in the preparation of the monthly estimates. Ninety-five percent (95%) of such estimated sum shall be paid to the Contractor within five (5) days after the first regularly scheduled meeting of the County of the following month.
  - b. On completion of the work, but prior to the acceptance thereof by the County, it shall be the duty of the Engineer for the County, or other appropriate person, to determine that said work has been completely and fully performed in accordance with this Contract and all incorporated documents; and upon making such determination, said official shall make his final certification to the County.
  - c. The Contractor shall furnish proof that all claims and obligations incurred by him in connection with the performance of said work have been fully paid and settled; said information shall be in the form of an affidavit, which shall bear the approval of the surety on the contract bonds, for payment of the final estimate to the Contractor; thereupon, the final estimate (including retainage, but less any liquidated damages), will be approved and paid, within five (5) days after the first regularly scheduled meeting of the County of the following month.
5. Bargaining. The County and the Contractor have had the opportunity to seek independent legal counsel before entering into this Contract. The language of this Contract shall be construed simply, according to its fair meaning, and not strictly for or against either party.
6. Third Party Beneficiaries. Nothing in this Contract, expressed or implied, is intended to confer upon any person other than the parties hereto and their respective assigns, any rights or remedies under or by reason of this Contract, except as provided expressly herein.
7. Notices: Whenever a notice is required to be given in writing and under the terms of this Contract, or any extension hereunder, such notice shall either be hand-delivered or mailed by certified mail, return receipt requested, and directed to the respective parties at the following addresses:

If to the County:

If to Contractor:

Woods County  
407 Government Street  
Alva, OK 73717

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

or at such other address as a party shall specify by like notice to the other party hereto. Notices shall be effective on the date of delivery.

- 8. Counterparts. This Contract may be executed in any number of counterparts, and when each party has signed and delivered to the other at least one (1) such counterpart, each counterpart shall be deemed an original, and when taken together with other signed counterparts, shall constitute one (1) agreement; provided, however, this Contract shall not be binding upon the parties hereto until signed by all of the parties.
- 9. Integration and Amendments. This Contract constitutes the entire agreement between the parties and may not be amended, altered, modified or changed in any way except in writing signed by all parties to this Contract and which specifically references this Contract. There are no other agreements, representations or warranties, whether oral or written, regarding the subject matter of this Contract. No course of dealings involving the parties hereto and no usage of trade shall be relevant or admissible to interpret, supplement, explain or in any way vary any of the terms expressly set forth in this Contract. Any amendment to this Contract shall be attached to this Contract and all of the terms in this Contract not addressed in the amendment shall remain in full force and effect.
- 10. Binding Effect. This Contract binds the parties and any successors and assigns of the parties.
- 11. Severability. If any one or more of the sections, sentences, clauses, or parts be held invalid for any reason, the invalidity of such section, sentence, clause, or part shall not affect nor prejudice the applicability and validity of any other provision of this Contract.

IN WITNESS WHEREOF, the parties hereto have caused this Contract to be executed on the day and year last written below.

Date: \_\_\_\_\_

Woods County Commissioners,

\_\_\_\_\_  
Chairman

(SEAL)

ATTEST:

\_\_\_\_\_  
County Clerk



**MAINTENANCE BOND**

KNOW ALL MEN BY THESE PRESENT, that \_\_\_\_\_, Principal, and \_\_\_\_\_, a corporation organized under the laws of the State of \_\_\_\_\_, and authorized to transact business in the State of Oklahoma, as Surety, are held firmly bound unto Woods County, in the penal sum of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_) in lawful money of the United States of America, said sum being the contract price, for the payment of which, well and truly to be made, we bind ourselves and each of us, our heirs, executors, administrators, trustees, successors, and assigns, jointly and severally, firmly by these presents.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

The condition of this obligation is such that:

WHEREAS, said Principal entered into a written contract with Woods County, dated \_\_, 20\_\_\_\_, for:

**Woods County  
NS-246 COLD IN-PLACE RECYCLING  
Bid No. 17-18-03**

all in compliance with the plans and specifications therefor, made a part of said contract and on file in the Office of the County Clerk, located in the County Courthouse Building in Alva, Oklahoma.

NOW, THEREFORE, if said Principal shall pay or cause to be paid to Woods County, Oklahoma, all damage, loss, and expense which may result by reason of defective materials and/or workmanship in connection with said work, occurring within a period of **one (1) year** from and after acceptance of said project by Woods County, Oklahoma; then this obligation shall be null and void, otherwise to be and remain in full force and effect.

It is further expressly agreed and understood by the parties hereto that no changes or alterations in said contract and no deviations from the plan or mode of procedure herein fixed shall have the effect of releasing the sureties, or any of them, from the obligations of this bond.

IN WITNESS WHEREOF, the said Principal has caused these presents to be executed in its name and its corporate seal to be hereunto affixed by its duly authorized officers, and the same Surety has caused these presents to be executed in its name and its corporate seal to be hereunto affixed by its attorney-in- fact, duly authorized so to do, the day and year first above written.

Principal:

\_\_\_\_\_

By: \_\_\_\_\_

Title

(SEAL)  
ATTEST:

\_\_\_\_\_  
Secretary

Surety:

\_\_\_\_\_

By: \_\_\_\_\_

Attorney-in-Fact



**PERFORMANCE BOND**

KNOW ALL MEN BY THESE PRESENT, that \_\_\_\_\_, Principal, and \_\_\_\_\_, a corporation organized under the laws of the State of \_\_\_\_\_, and authorized to transact business in the State of Oklahoma, as Surety, are held firmly bound Woods County, Oklahoma, in the penal sum of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_) in lawful money of the United States of America, for the payment of which, well and truly to be made, we bind ourselves and each of us, our heirs, executors, administrators, trustees, successors, and assigns, jointly and severally, firmly by these presents.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

The condition of this obligation is such that:

WHEREAS, said Principal entered into a written contract with Woods County Oklahoma, dated \_\_\_\_\_, 20\_\_\_\_\_, for:

**Woods County  
NS-246 COLD IN-PLACE RECYCLING  
Bid No. 17-18-03**

all in compliance with the plans and specifications therefor, made a part of said contract and on file in the Office of the County Clerk, located in the County Courthouse Building in Alva, Oklahoma.

NOW, THEREFORE, if said Principal shall in all particulars, well, truly, and faithfully perform and abide by said contract and each and every covenant, condition, and part thereof and shall fulfill all obligations resting upon said principal by the terms of said contract and specifications and if said principal shall protect and save harmless Woods County, Oklahoma from any pecuniary loss resulting from the breach of any of the items, covenants and conditions of said contract resting upon said principal, then this obligation shall be null and void, otherwise to be and remain in full force and effect.

It is further expressly agreed and understood by the parties hereto that no changes or alterations in said contract and no deviations from the plan or mode of procedure herein fixed shall have the effect of releasing the sureties, or any of them, from the obligations of this bond.

IN WITNESS WHEREOF, the said Principal has caused these presents to be executed in its name and its corporate seal to be hereunto affixed by its duly authorized officers, and the same Surety has caused these presents to be executed in its name and its corporate seal to be hereunto affixed by its attorney-in-fact, duly authorized so to do, the day and year first above written.

Principal:

\_\_\_\_\_

By: \_\_\_\_\_

Title

(SEAL)  
ATTEST:

\_\_\_\_\_  
Secretary

Surety:

\_\_\_\_\_

By: \_\_\_\_\_

Attorney-in-Fact

**STATUTORY BOND**

KNOW ALL MEN BY THESE PRESENT, that \_\_\_\_\_,  
Principal, and \_\_\_\_\_, a corporation organized under the laws of the State of  
\_\_\_\_\_, and authorized to transact business in the State of Oklahoma, as Surety, are held firmly bound unto  
Woods County, Oklahoma, in the penal sum of \_\_\_\_\_ Dollars (\$  
\_\_\_\_\_) in lawful money of the United States of America, for the payment of which, well and truly to be  
made, we bind ourselves and each of us, our heirs, executors, administrators, trustees, successors, and  
assigns, jointly and severally, firmly by these presents.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

The condition of this obligation is such that:

WHEREAS, said Principal entered into a written Contract with Woods County Oklahoma,  
dated \_\_\_\_\_, 20\_\_\_\_\_, for:

**Woods County  
NS-246 COLD IN-PLACE RECYCLING  
Bid No. 17-18-03**

all in compliance with the plans and specifications therefor, made a part of said contract and on file in the  
Office of the County Clerk, located in the County Courthouse Building in Alva, Oklahoma.

NOW, THEREFORE, if said Principal shall fail or neglect to pay all indebtedness incurred by said  
Principal or subcontractors of said Principal who performs work in the performance of such contract, for labor  
and materials and repairs to and parts of equipment used and consumed in the performance of said contract  
within thirty (30) days after the same becomes due and payable, the person, firm, or corporation entitled  
thereto may sue and recover on this bond, the amount so due and unpaid.

It is further expressly agreed and understood by the parties hereto that no changes or alterations in said  
contract and no deviations from the plan or mode of procedure herein fixed shall have the effect of releasing  
the sureties, or any of them, from the obligations of this bond.

IN WITNESS WHEREOF, the said Principal has caused these presents to be executed in its name and  
its corporate seal to be hereunto affixed by its duly authorized officers, and the same Surety has caused these  
presents to be executed in its name and its corporate seal to be hereunto affixed by its attorney-in-fact, duly  
authorized so to do, the day and year first above written.

Principal:  
\_\_\_\_\_

By: \_\_\_\_\_  
Title

(SEAL)  
ATTEST:  
\_\_\_\_\_  
Secretary

Surety:  
\_\_\_\_\_

By: \_\_\_\_\_  
Attorney-in-Fact

**NOTICE TO PROCEED**

TO:

FROM: Woods County Commissioners, Woods County, Oklahoma

YOU ARE HEREBY NOTIFIED that all contract documents have been executed and accepted in relation to the contract on

**Woods County  
NS-246 COLD IN-PLACE RECYCLING  
Bid No. 17-18-03**

entered into on the \_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_, by and between the County and

\_\_\_\_\_ and that work may now be commenced in

accordance with said Contract. The completion date is the 22nd day of September, 20 17.

DATED at Woods County, Oklahoma this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

Woods County Commissioners, Woods County, Oklahoma

By: \_\_\_\_\_  
Chairman

cc: County Clerk

**INVOICE AFFIDAVIT**

STATE OF \_\_\_\_\_ )  
 ) SS.  
COUNTY OF \_\_\_\_\_ )

The undersigned (architect, contractor, supplier, engineer, or supervisory official) of lawful age, being first duly sworn, on oath says that this invoice, claim or contract is true and correct. Affiant further states that the work, services, or materials as shown by this invoice or claim have been completed or supplied in accordance with the plans, specifications, orders or requests furnished to the affiant. Affiant further states that (s) he has made no payment, given or donated or agreed to pay, give or donate either directly or indirectly to any elected official, officer or employee of the State of Oklahoma, of money or any other thing of value to obtain payment or the award of this contract.

NS-246 COLD IN-PLACE RECYCLING  
Project Name

BID NO. 17-18-03  
Project No.

\_\_\_\_\_  
Signature - Contractor or Supplier

\_\_\_\_\_  
Company Name (Print or Type)

\_\_\_\_\_  
Address

\_\_\_\_\_  
City, State, Zip

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_, Notary Public

My Commission Expires: \_\_\_\_\_











**PLACEMENT MARKINGS THROUGH TEMPORARY TRAFFIC CONTROL ZONE**

MARKING	TYPE	SPACING	LENGTH	WIDTH	HEIGHT	INSTALLATION	REMOVAL

**PLATE NOTES FOR CONCRETE MEDIAN BARRIER IN TEMPORARY TRAFFIC CONTROL ZONES**

SPEED	MARKING
40 M.P.H.	9 TO 1
50 M.P.H.	10 TO 1
60 M.P.H.	11 TO 1
70 M.P.H.	12 TO 1
80 M.P.H.	13 TO 1
90 M.P.H.	14 TO 1
100 M.P.H.	15 TO 1

**STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED**

SPEED (M.P.H.)	STANDING SIGHT DISTANCE (FEET)
15	115
20	145
25	180
30	220
35	265
40	315
45	370
50	430
55	495
60	565
65	640
70	720
75	805
80	895
85	990
90	1090
95	1195
100	1305

**RECOMMENDED CLEAR ZONE DISTANCE (FT) (CONSTRUCTION WORK ZONES)**

ROAD TYPE	TRUCK SPEED (M.P.H.)	TRUCK LENGTH (FT)	TRUCK WIDTH (FT)	TRUCK HEIGHT (FT)	TRUCK WEIGHT (LBS)	TRUCK CENTER OF GRAVITY (FT)	TRUCK BRAKE DISTANCE (FT)	TRUCK STOPPING DISTANCE (FT)	TRUCK CLEARANCE (FT)

**CROSSOVER CRITERIA FOR WORK ZONES**

TRAFFIC CONTROL METHOD	MINIMUM CLEARANCE (FT)	MINIMUM WIDTH (FT)	MINIMUM LENGTH (FT)	MINIMUM HEIGHT (FT)	MINIMUM WEIGHT (LBS)	MINIMUM CENTER OF GRAVITY (FT)	MINIMUM BRAKE DISTANCE (FT)	MINIMUM STOPPING DISTANCE (FT)	MINIMUM CLEARANCE (FT)

**RECOMMENDED CLEAR ZONE DISTANCE (FT) (CONSTRUCTION WORK ZONES)**

ROAD TYPE	TRUCK SPEED (M.P.H.)	TRUCK LENGTH (FT)	TRUCK WIDTH (FT)	TRUCK HEIGHT (FT)	TRUCK WEIGHT (LBS)	TRUCK CENTER OF GRAVITY (FT)	TRUCK BRAKE DISTANCE (FT)	TRUCK STOPPING DISTANCE (FT)	TRUCK CLEARANCE (FT)

**RECOMMENDED CLEAR ZONE DISTANCE (FT) (CONSTRUCTION WORK ZONES)**

ROAD TYPE	TRUCK SPEED (M.P.H.)	TRUCK LENGTH (FT)	TRUCK WIDTH (FT)	TRUCK HEIGHT (FT)	TRUCK WEIGHT (LBS)	TRUCK CENTER OF GRAVITY (FT)	TRUCK BRAKE DISTANCE (FT)	TRUCK STOPPING DISTANCE (FT)	TRUCK CLEARANCE (FT)

**RECOMMENDED CLEAR ZONE DISTANCE (FT) (CONSTRUCTION WORK ZONES)**

ROAD TYPE	TRUCK SPEED (M.P.H.)	TRUCK LENGTH (FT)	TRUCK WIDTH (FT)	TRUCK HEIGHT (FT)	TRUCK WEIGHT (LBS)	TRUCK CENTER OF GRAVITY (FT)	TRUCK BRAKE DISTANCE (FT)	TRUCK STOPPING DISTANCE (FT)	TRUCK CLEARANCE (FT)

**RECOMMENDED CLEAR ZONE DISTANCE (FT) (CONSTRUCTION WORK ZONES)**

ROAD TYPE	TRUCK SPEED (M.P.H.)	TRUCK LENGTH (FT)	TRUCK WIDTH (FT)	TRUCK HEIGHT (FT)	TRUCK WEIGHT (LBS)	TRUCK CENTER OF GRAVITY (FT)	TRUCK BRAKE DISTANCE (FT)	TRUCK STOPPING DISTANCE (FT)	TRUCK CLEARANCE (FT)

**RECOMMENDED CLEAR ZONE DISTANCE (FT) (CONSTRUCTION WORK ZONES)**

ROAD TYPE	TRUCK SPEED (M.P.H.)	TRUCK LENGTH (FT)	TRUCK WIDTH (FT)	TRUCK HEIGHT (FT)	TRUCK WEIGHT (LBS)	TRUCK CENTER OF GRAVITY (FT)	TRUCK BRAKE DISTANCE (FT)	TRUCK STOPPING DISTANCE (FT)	TRUCK CLEARANCE (FT)

**RECOMMENDED CLEAR ZONE DISTANCE (FT) (CONSTRUCTION WORK ZONES)**

ROAD TYPE	TRUCK SPEED (M.P.H.)	TRUCK LENGTH (FT)	TRUCK WIDTH (FT)	TRUCK HEIGHT (FT)	TRUCK WEIGHT (LBS)	TRUCK CENTER OF GRAVITY (FT)	TRUCK BRAKE DISTANCE (FT)	TRUCK STOPPING DISTANCE (FT)	TRUCK CLEARANCE (FT)

**RECOMMENDED CLEAR ZONE DISTANCE (FT) (CONSTRUCTION WORK ZONES)**

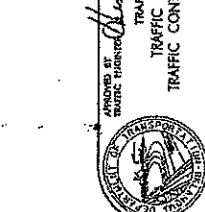
ROAD TYPE	TRUCK SPEED (M.P.H.)	TRUCK LENGTH (FT)	TRUCK WIDTH (FT)	TRUCK HEIGHT (FT)	TRUCK WEIGHT (LBS)	TRUCK CENTER OF GRAVITY (FT)	TRUCK BRAKE DISTANCE (FT)	TRUCK STOPPING DISTANCE (FT)	TRUCK CLEARANCE (FT)

**RECOMMENDED CLEAR ZONE DISTANCE (FT) (CONSTRUCTION WORK ZONES)**

ROAD TYPE	TRUCK SPEED (M.P.H.)	TRUCK LENGTH (FT)	TRUCK WIDTH (FT)	TRUCK HEIGHT (FT)	TRUCK WEIGHT (LBS)	TRUCK CENTER OF GRAVITY (FT)	TRUCK BRAKE DISTANCE (FT)	TRUCK STOPPING DISTANCE (FT)	TRUCK CLEARANCE (FT)

**RECOMMENDED CLEAR ZONE DISTANCE (FT) (CONSTRUCTION WORK ZONES)**

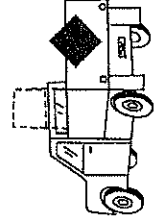
ROAD TYPE	TRUCK SPEED (M.P.H.)	TRUCK LENGTH (FT)	TRUCK WIDTH (FT)	TRUCK HEIGHT (FT)	TRUCK WEIGHT (LBS)	TRUCK CENTER OF GRAVITY (FT)	TRUCK BRAKE DISTANCE (FT)	TRUCK STOPPING DISTANCE (FT)	TRUCK CLEARANCE (FT)





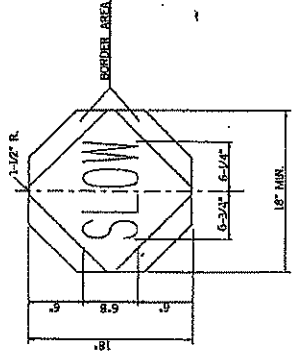


ORANGE FLAGS (OPTIONAL)  
FLAG SIZE 16" X 16" MIN.

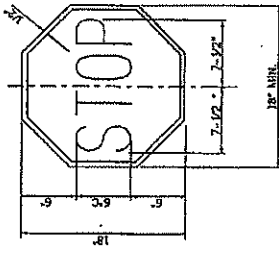


NOTE:  
HEIGHT OF SIGNS MOUNTED  
ON VEHICLES OR TEMPORARY  
SUPPORTS SHALL NOT BE LESS THAN  
1 FOOT ABOVE THE TRAVELED WAY.

PORTABLE AND TEMPORARY MOUNTINGS  
METHODS OF MOUNTING SIGNS OTHER THAN ON POSTS

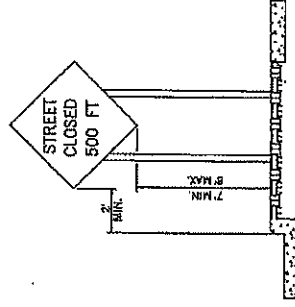


SLOW:  
LEGEND AND BORDER AREA: BLACK (NON-REFLECTORIZED)  
BACKGROUND: ORANGE (REFLECTORIZED)

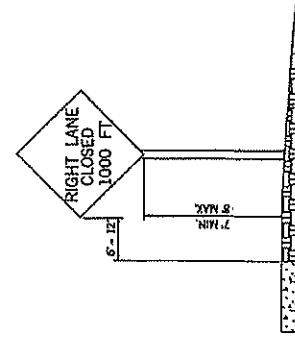


STOP:  
LEGEND AND BORDER: WHITE (REFLECTORIZED)  
BACKGROUND: RED (REFLECTORIZED)

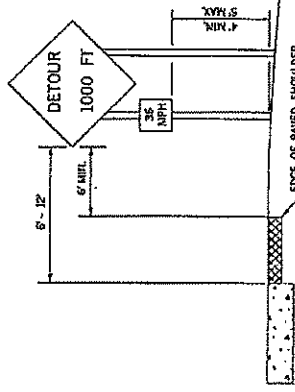
STOP-SLOW PADDLE



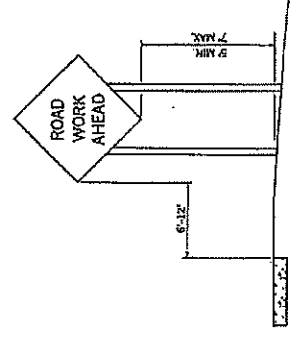
URBAN DISTRICT  
(WITH CURB)



URBAN DISTRICT  
(WITHOUT CURB)



RURAL DISTRICT WITH  
ADVISORY SPEED PLATE



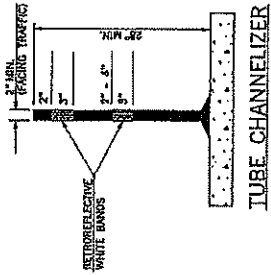
RURAL DISTRICT

HEIGHT AND LATERAL LOCATIONS OF SIGNS - TYPICAL INSTALLATIONS



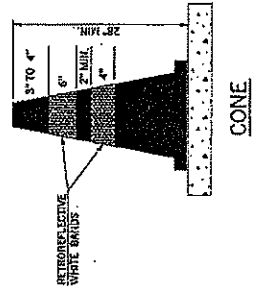
TRAFFIC CONTROL STANDARD  
TYPICAL SIGN INSTALLATION  
TRAFFIC STANDARD  
DATE: 6/23/10

SECTION 310.00 - TRAFFIC CONTROL DEVICES  
PART 1 - CHANNELIZERS, CONES, DRUMS, AND SIGNPOSTS



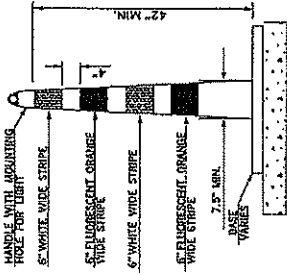
TUBE CHANNELIZER

NOTE:  
TUBE CHANNELIZERS USED ON HIGH SPEED ROADWAYS ON ALL HIGHWAYS SHOULD BE PREVIOUSLY APPROVED BY THE STATE DEPARTMENT OF TRANSPORTATION. TUBE CHANNELIZERS USED ON HIGH SPEED ROADWAYS ON ALL HIGHWAYS SHOULD BE PREVIOUSLY APPROVED BY THE STATE DEPARTMENT OF TRANSPORTATION. TUBE CHANNELIZERS USED ON HIGH SPEED ROADWAYS ON ALL HIGHWAYS SHOULD BE PREVIOUSLY APPROVED BY THE STATE DEPARTMENT OF TRANSPORTATION.



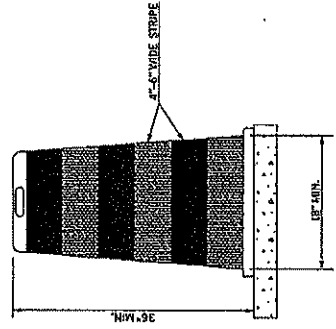
CONE

NOTE:  
CONES USED ON HIGH SPEED ROADWAYS ON ALL HIGHWAYS SHOULD BE PREVIOUSLY APPROVED BY THE STATE DEPARTMENT OF TRANSPORTATION. CONES USED ON HIGH SPEED ROADWAYS ON ALL HIGHWAYS SHOULD BE PREVIOUSLY APPROVED BY THE STATE DEPARTMENT OF TRANSPORTATION. CONES USED ON HIGH SPEED ROADWAYS ON ALL HIGHWAYS SHOULD BE PREVIOUSLY APPROVED BY THE STATE DEPARTMENT OF TRANSPORTATION.



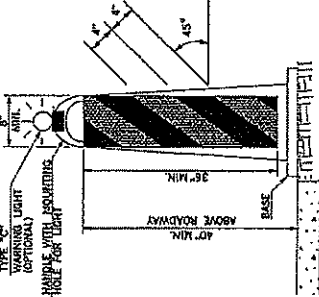
CHANNELIZER CONE

NOTE:  
CHANNELIZER CONES USED ON HIGH SPEED ROADWAYS ON ALL HIGHWAYS SHOULD BE PREVIOUSLY APPROVED BY THE STATE DEPARTMENT OF TRANSPORTATION. CHANNELIZER CONES USED ON HIGH SPEED ROADWAYS ON ALL HIGHWAYS SHOULD BE PREVIOUSLY APPROVED BY THE STATE DEPARTMENT OF TRANSPORTATION. CHANNELIZER CONES USED ON HIGH SPEED ROADWAYS ON ALL HIGHWAYS SHOULD BE PREVIOUSLY APPROVED BY THE STATE DEPARTMENT OF TRANSPORTATION.



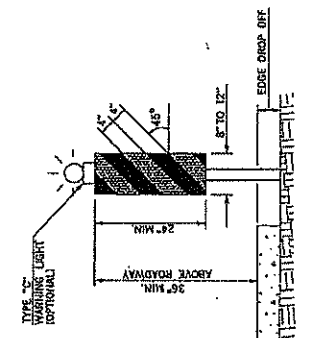
DRUM

NOTE:  
METAL DRUMS SHALL NOT BE USED. EACH DRUM SHALL HAVE A MINIMUM OF TWO (2) FLUORESCENT ORANGE STRIPES ALTERNATING WITH A MINIMUM OF TWO (2) WHITE STRIPES. EACH DRUM SHALL HAVE A MINIMUM OF TWO (2) FLUORESCENT ORANGE STRIPES ALTERNATING WITH A MINIMUM OF TWO (2) WHITE STRIPES. EACH DRUM SHALL HAVE A MINIMUM OF TWO (2) FLUORESCENT ORANGE STRIPES ALTERNATING WITH A MINIMUM OF TWO (2) WHITE STRIPES.



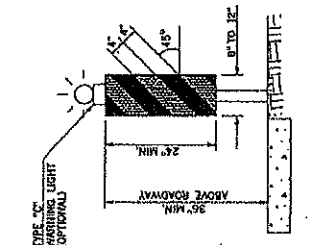
STACKABLE VERTICAL PANEL

NOTE:  
(1) VERTICAL PANEL STRIPS SHALL BE SECURED TO BACK TO BACK WHEN USED FOR TWO-WAY TRAFFIC.  
(2) BASE SHALL BE NO LARGER THAN 28\"/>



VERTICAL PANEL W/DROP OFF

NOTE:  
ON DIVIDED HIGHWAYS A VERTICAL PANEL MAY HAVE SHEETING ON ONLY ONE SIDE.  
ON UNDIVIDED HIGHWAYS VERTICAL PANELS SHALL HAVE A MINIMUM OF TWO (2) FLUORESCENT ORANGE STRIPES ALTERNATING WITH A MINIMUM OF TWO (2) WHITE STRIPES. ON UNDIVIDED HIGHWAYS VERTICAL PANELS SHALL HAVE A MINIMUM OF TWO (2) FLUORESCENT ORANGE STRIPES ALTERNATING WITH A MINIMUM OF TWO (2) WHITE STRIPES.




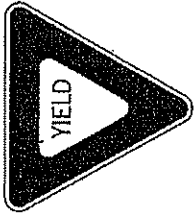
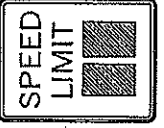










VERTICAL PANEL W/NO DROP OFF

NOTE:  
PANEL STRIPS SHALL BE 4 INCHES EXCEPT WHERE PANEL LENGTHS ARE LESS THAN 36 INCHES THEN 4 INCH STRIPES MAY BE USED. MARKINGS FOR VERTICAL PANELS SHALL BE ALTERNATING FLUORESCENT ORANGE STRIPES ALTERNATING WITH A MINIMUM OF TWO (2) WHITE STRIPES AT AN ANGLE OF 45 DEGREES TO THE DIRECTION OF TRAFFIC (SEE PLAN). SHALL HAVE A MINIMUM OF TWO (2) FULL FLUORESCENT ORANGE STRIPES.

BASIS OF PAYMENT	
ITEM NO.	UNIT
3600	VERTICAL PANEL
3601	MARKING LIGHTS
3602	DRUMS
3603	TUBE CHANNELIZERS
3604	CONES
3605	CHANNELIZER CONES

APPROVED BY: *[Signature]* DATE: 11/12/11  
TRAFFIC CONTROL STANDARD  
CHANNELIZING DEVICES  
TCSA-1 02  
1-506



DESCRIPTION		DATE		
 <p><b>STOP</b></p> <p>30 x 30 5.19 SF 36 x 36 7.46 SF 48 x 48 13.26 SF</p> <p><b>COLOR:</b> WHITE (REFLECTORIZED) RED (TRANSPARENT REFLECTORIZED)</p>	 <p><b>YIELD</b></p> <p>36 x 36 x 36 3.90 SF 48 x 48 x 48 6.93 SF 60 x 60 x 60 10.83 SF</p> <p><b>COLOR:</b> RED (TRANSPARENT REFLECTORIZED) BLACK (NON-REFLECTORIZED) WHITE (REFLECTORIZED)</p>	 <p><b>SPEED LIMIT</b></p> <p>24 x 30 5.00 SF 36 x 48 12.00 SF 48 x 60 20.00 SF</p> <p><b>COLOR:</b> BLACK (NON-REFLECTORIZED) LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) WHITE (REFLECTORIZED)</p>	 <p><b>NO RIGHT TURN</b></p> <p>24 x 24 4.00 SF 36 x 36 9.00 SF 48 x 48 16.00 SF</p> <p><b>COLOR:</b> BLACK (NON-REFLECTORIZED) CIRCLE AND DIAGONAL: RED (TRANSPARENT REFLECTORIZED) BACKGROUND: WHITE (REFLECTORIZED)</p>	 <p><b>NO LEFT TURN</b></p> <p>24 x 24 4.00 SF 36 x 36 9.00 SF 48 x 48 16.00 SF</p> <p><b>COLOR:</b> BLACK (NON-REFLECTORIZED) CIRCLE AND DIAGONAL: RED (TRANSPARENT REFLECTORIZED) BACKGROUND: WHITE (REFLECTORIZED)</p>
 <p><b>KEEP RIGHT SIGN</b></p> <p>24 x 30 5.00 SF 36 x 48 12.00 SF 48 x 60 20.00 SF</p> <p><b>COLOR:</b> BLACK (NON-REFLECTORIZED) LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) WHITE (REFLECTORIZED)</p>	 <p><b>KEEP LEFT SIGN</b></p> <p>24 x 30 5.00 SF 36 x 48 12.00 SF 48 x 60 20.00 SF</p> <p><b>COLOR:</b> BLACK (NON-REFLECTORIZED) LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) WHITE (REFLECTORIZED)</p>	 <p><b>KEEP RIGHT</b></p> <p>24 x 30 5.00 SF 36 x 48 12.00 SF 48 x 60 20.00 SF</p> <p><b>COLOR:</b> BLACK (NON-REFLECTORIZED) LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) WHITE (REFLECTORIZED)</p>	 <p><b>KEEP LEFT</b></p> <p>24 x 30 5.00 SF 36 x 48 12.00 SF 48 x 60 20.00 SF</p> <p><b>COLOR:</b> BLACK (NON-REFLECTORIZED) LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) WHITE (REFLECTORIZED)</p>	 <p><b>DO NOT ENTER</b></p> <p>30 x 30 6.25 SF 36 x 36 9.00 SF 48 x 48 16.00 SF</p> <p><b>COLOR:</b> RED (TRANSPARENT REFLECTORIZED) LEGEND AND BACKGROUND: WHITE (REFLECTORIZED)</p>
 <p><b>ONE WAY</b></p> <p>36 x 12 3.00 SF 54 x 18 6.75 SF 60 x 24 9.00 SF</p> <p><b>COLOR:</b> WHITE (NON-REFLECTORIZED) LEGEND AND BACKGROUND: BLACK (REFLECTORIZED)</p>	 <p><b>ONE WAY</b></p> <p>36 x 12 3.00 SF 54 x 18 6.75 SF 60 x 24 9.00 SF</p> <p><b>COLOR:</b> WHITE (NON-REFLECTORIZED) LEGEND AND BACKGROUND: BLACK (REFLECTORIZED)</p>	 <p><b>STOP HERE ON RED</b></p> <p>24 x 36 6.00 SF</p> <p><b>COLOR:</b> LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: WHITE (REFLECTORIZED)</p>	<p><b>STOP HERE ON RED</b></p> <p>24 x 36 6.00 SF</p> <p><b>COLOR:</b> LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: WHITE (REFLECTORIZED)</p>	<p><b>STOP HERE ON RED</b></p> <p>24 x 36 6.00 SF</p> <p><b>COLOR:</b> LEGEND AND BORDER: BLACK (NON-REFLECTORIZED) BACKGROUND: WHITE (REFLECTORIZED)</p>

NOTE: WORD SIGNS MAY BE USED IF SYMBOL SIGNS ARE NOT AVAILABLE EITHER IN "STANDARD HIGHWAY SIGNS MANUAL" OR IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) (CURRENT EDITION).

BASIS OF PAYMENT	
ITEM NO.	UNIT
96000	SD
CONSTRUCTION SIGNS	

TRAFFIC SIGNAGE  
TRAFFIC CONTROL STANDARD  
CONSTRUCTION SIGNS

TRAFFIC SIGNAGE  
TRAFFIC CONTROL STANDARD  
CONSTRUCTION SIGNS

2019 SPECIFICATIONS

TCSS-1 00  
T-508

**ROAD CLOSED TO THRU TRAFFIC**  
 ROAD CLOSED TO THRU TRAFFIC  
 R11-4 60 x 30 12.50 SF  
 COLOR:  
 LEGEND AND BORDER:  
 BLACK (NON-REFLECTORIZED)  
 BACKGROUND:  
 WHITE (REFLECTORIZED)



DETOUR SIGN  
 M4-10UR 48 x 18 6.00 SF  
 COLOR:  
 LEGEND AND BORDER:  
 BLACK (NON-REFLECTORIZED)  
 BACKGROUND:  
 FLUORESCENT ORANGE (REFLECTORIZED)

**BRIDGE OUT XX MILES AHEAD LOCAL TRAFFIC ONLY**  
 BRIDGE OUT XX MILES AHEAD  
 R11-3b 60 x 30 12.50 SF  
 COLOR:  
 LEGEND AND BORDER:  
 BLACK (NON-REFLECTORIZED)  
 BACKGROUND:  
 WHITE (REFLECTORIZED)



DETOUR SIGN  
 M4-9IV 30 x 24 5.00 SF  
 M4-9IVE 48 x 36 12.00 SF  
 M4-9IVF 60 x 48 20.00 SF  
 COLOR:  
 LEGEND AND BORDER:  
 BLACK (NON-REFLECTORIZED)  
 BACKGROUND:  
 FLUORESCENT ORANGE (REFLECTORIZED)

**ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY**  
 ROAD CLOSED XX MILES AHEAD  
 R11-3a 60 x 30 12.50 SF  
 COLOR:  
 LEGEND AND BORDER:  
 BLACK (NON-REFLECTORIZED)  
 BACKGROUND:  
 WHITE (REFLECTORIZED)



DETOUR SIGN  
 M4-9II 30 x 24 5.00 SF  
 M4-9IIE 48 x 36 12.00 SF  
 M4-9IIF 60 x 48 20.00 SF  
 COLOR:  
 LEGEND AND BORDER:  
 BLACK (NON-REFLECTORIZED)  
 BACKGROUND:  
 FLUORESCENT ORANGE (REFLECTORIZED)

**LANE CLOSED**  
 LANE CLOSED  
 R11-2(LANE) 48 x 30 10.00 SF  
 COLOR:  
 LEGEND AND BORDER:  
 BLACK (NON-REFLECTORIZED)  
 BACKGROUND:  
 WHITE (REFLECTORIZED)



DETOUR SIGN  
 M4-9IR 30 x 24 5.00 SF  
 M4-9IIE 48 x 36 12.00 SF  
 M4-9IRF 60 x 48 20.00 SF  
 COLOR:  
 LEGEND AND BORDER:  
 BLACK (NON-REFLECTORIZED)  
 BACKGROUND:  
 FLUORESCENT ORANGE (REFLECTORIZED)

**ROAD CLOSED**  
 ROAD CLOSED  
 R11-2 48 x 30 10.00 SF  
 COLOR:  
 LEGEND AND BORDER:  
 BLACK (NON-REFLECTORIZED)  
 BACKGROUND:  
 WHITE (REFLECTORIZED)



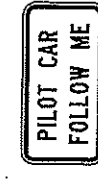
DETOUR SIGN  
 M4-8 24 x 12 2.00 SF  
 M4-8E 30 x 15 3.13 SF  
 COLOR:  
 LEGEND AND BORDER:  
 BLACK (NON-REFLECTORIZED)  
 BACKGROUND:  
 FLUORESCENT ORANGE (REFLECTORIZED)



DETOUR SIGN  
 M4-10UL 48 x 18 6.00 SF  
 COLOR:  
 LEGEND AND BORDER:  
 BLACK (NON-REFLECTORIZED)  
 BACKGROUND:  
 FLUORESCENT ORANGE (REFLECTORIZED)



END ROAD WORK SIGN  
 G20-2A 36 x 18 4.50 SF  
 COLOR:  
 LEGEND AND BORDER:  
 BLACK (NON-REFLECTORIZED)  
 BACKGROUND:  
 FLUORESCENT ORANGE (REFLECTORIZED)



PILOT CAR FOLLOW ME SIGN  
 G20-4 36 x 18 4.50 SF  
 COLOR:  
 LEGEND AND BORDER:  
 BLACK (NON-REFLECTORIZED)  
 BACKGROUND:  
 FLUORESCENT ORANGE (REFLECTORIZED)

NOTES:  
 WORD SIGNS MAY BE USED IF SYMBOL SIGNS ARE NOT AVAILABLE ENTER IN "STANDARD HIGHWAY SIGNS MANUAL" OR IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (LATEST EDITION).  
 ALL DIMENSIONS SHOW CONSTRUCTION WARNING SIGNS SHALL BE 28 INCHES X 48 INCHES UNLESS OTHERWISE NOTED IN THE PLANS.

BASIS OF PAYMENT		UNIT	QTY
ITEM NO.	ITEM		
80003	CONSTRUCTION SIGNS		

APPROVED BY: *W. J. G. Galt*  
 PUBLIC ENGINEER  
 TRAFFIC STANDARD  
 CONSTRUCTION SIGNS

2009 SPECIFICATIONS  
 TCS-1 01  
 T-509