

# INVITATION TO BID

FOR

## 2025 Sidewalk and Drainage Repairs Project

**Project Number:  
RFB #2025DRSW**

### TOWN OF BRASELTON

**4982 HIGHWAY 53  
BRASELTON, GEORGIA 30517**

**Honorable Kurt Ward – Mayor  
Honorable Becky Richardson – Council Member  
Honorable Richard Harper – Council Member  
Honorable Tom Logan – Council Member  
Honorable James Murphy – Council Member**

**Jennifer Scott  
Town Manager**



TOWN OF —  
BRASELTON

Date of Opening:  
June 4, 2025

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\*Submit with bid.

## INVITATION TO BID

The Braselton Town Manager's Office, located at 4982 Highway 53, Braselton, Georgia 30517, will receive sealed proposals until:

***Wednesday, June 4, 2025, 2:00 pm EST***

For the project known as:

*Town of Braselton  
2025 Sidewalk and Drainage Repairs Project  
Project Number: RFB #2025DRSW*

Proposals are **due by 2:00 pm EST**, and will be opened and read aloud shortly thereafter in the Town Hall Conference Room, 4982 Highway 53, Braselton, Georgia 30517. No other determination of award will take place at the bid opening. Proposals received after the designated time will not be considered. The Owner of the project is the Town of Braselton. The Engineer for the project is **BM&K**.

The approximate extent and character of the Work is generally described as follows:

**Repair/Replacement of existing sidewalk, curb and gutter and drainage structures at sixty-nine (69) locations within the limits of the Town of Braselton as noted within this document.**

Bidders shall inform themselves concerning Georgia Laws and comply with same.

Bidding Documents may be obtained by contacting Lisa Ashcraft at BM&K, 706-824-0514 or by email at [lashcraft@bmandkinc.com](mailto:lashcraft@bmandkinc.com).

All engineering and technical questions should be directed to Sloane Laughman, PE at [slaughman@bmandkinc.com](mailto:slaughman@bmandkinc.com). Questions must be received no later than 5:00 PM, Friday, May 23, 2025 and should be compiled by the Contractor and submitted in a consolidated form.

The time allowed for Substantial Completion is **160 consecutive days** from the date specified in the **Notice to Proceed**. Nonrefundable liquidated damages in the amount of \$300 per calendar day will be deducted from monies due the Contractor in the event that a portion of the work remains incomplete beyond the agreed upon contract completion date. The official **Notice to Proceed** is anticipated to be the given to the chosen contractor in the Summer of 2025.

Each Bid must be accompanied by a Bid Bond with good and sufficient surety or sureties approved by the owner for faithful acceptance of the contract, payable to, in favor of, and for the protection of the OWNER in an amount equivalent to five percent (5%) of the total amount payable by the terms of the contract or, in lieu thereof, in the form of a certified check, cashier's check, or cash in equal amount.

The Successful Bidder will be required to furnish a performance bond for 100% of the contract amount and a payment bond for 100% of the contract amount, with the executed Agreement meeting the requirements of the Contract Documents and executed on the forms attached to the Agreement. The terms and time for payment are set forth in the Agreement.

Surety and insurance companies must have an AM Best rating of A-6 or greater, be listed in the Federal Registry of Companies holding Certificates of Authority and Acceptable Sureties on Federal Bonds, be licensed by the Georgia Insurance Department and the Georgia Secretary of State to do business in the State of Georgia.

Requests for payments are due by the Fifth (5<sup>th</sup>) of the month for the payment by the Twentieth (20<sup>th</sup>) of the month less 10% retainage. Retainage will be held until final acceptance of the project by the Town of Braselton.

All Bids will remain subject to acceptance for 60 days after the day of the Bid opening, but OWNER may, in its sole discretion, release any Bid and return the Bid security prior to that date.

All work performed for this project shall be in accordance with the current edition of Georgia Department of Transportation Standard Specification for Construction of Transportation Systems and attached modifications and special provisions.

**Each proposal must be submitted in a SEALED ENVELOPE addressed to the OWNER. Each sealed envelope containing a Proposal must be plainly marked on the outside as, bid for "Town of Braselton 2025 Sidewalk and Drainage Repairs Project", and the envelope should bear on the outside the name and address of the bidder.**

If bid is forwarded by mail, the sealed envelope containing the Bid must be enclosed in a separate mailing envelope to the attention of the OWNER. The mailing address is P.O. Box 306 Braselton, GA 30517. Bids may be hand-delivered to Town of Braselton Town Hall at 4982 Highway 53, Braselton, Georgia 30517.

The Owner reserves the right to reject any or all Bids, to waive formalities and re-advertise.

## **INSTRUCTIONS FOR BIDDERS**

Proposals will be received by the Town of Braselton (hereinafter called the "Owner") at Town Hall until **2:00 pm EST, Wednesday, June 4, 2025**. Proposals will be publicly opened and read aloud in the Town Hall Conference Room shortly thereafter.

Each proposal must be submitted in a sealed envelope, addressed to The Town of Braselton, 4982 Highway 53, Braselton, Georgia 30517. Each sealed envelope containing a bid must be plainly marked on the outside as **Bid for "Town of Braselton 2025 Sidewalk and Drainage Repairs Project"** and the envelope should bear on the outside the name and address of the bidder. If forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope addressed to the Owner. The mailing address is P.O. Box 306 Braselton, GA 30517.

All bids must be made on the required bid form. All blank spaces for bid prices must be filled in ink or typewritten, and the bid form must be fully completed and executed when submitted. Only one copy of the bid form is required.

**GENERAL INFORMATION** – The Town of Braselton is seeking to establish an annual contract for sidewalk and drainage repairs. Contractor will be required to provide all labor, materials, tools, and equipment necessary for 2025 Sidewalk and Drainage Repairs Project. The initial contract term will followed by four (4) one-year renewals contingent upon the appropriation of funds by the Town of Braselton in the annual budget for such fiscal year. The Owner shall have the right to waive any informality, irregularity, or insufficiency in the proposal procedure and in any proposal or proposals received and to accept the proposal which, in the Owner's sole judgment, is in the Owner's own best interests. The Owner shall have the right to accept any proposal.

The owner may waive any informalities or minor defects or reject any or all bids. Any bid may be withdrawn prior to the scheduled time for the opening of bids or authorized postponement thereof. Any bid received after the time and date specified shall not be considered. No bidder may withdraw a bid within 60 days after the actual date of the opening thereof. Should there be reasons why the Contract cannot be awarded within the specified period, the time may be extended by mutual agreement between the Owner and the bidder.

Bidders must satisfy themselves of the accuracy of the estimated quantities in the bid Schedule by examination of the site and a review of the drawings and specifications including any addenda. After bids have been submitted, the bidder shall not assert that there was a misunderstanding concerning the quantities of work or of the nature of the work to be done.

The Owner shall provide to bidders prior to bidding, all information which is pertinent to, and delineates and describes, the land owned and rights-of-way acquired or to be acquired.

The contract documents contain the provisions required for the construction of the project. Information obtained from an officer, agent, or employee of the Owner or any other person shall not affect the risks or obligations assumed by the contractor or relieve him from fulfilling any of the conditions of the Contract.

Each bid must be accompanied by a bid bond payable to the Owner for five percent (5%) of the total amount of the bid. As soon as the bid prices have been compared, the Owner will return the bonds of all except the three lowest responsible bidders. When the agreement is executed, the bonds of the two remaining unsuccessful bidders will be returned. The bid bond of the successful bidder will be retained until the payment bond and performance bond have been executed and approved, after which it will be returned. A certified check may be used in lieu of a bid bond.

A performance bond in the amount of 100% of the contract price and a payment bond in the amount of 100% of the contract price, with a corporate surety approved by the Owner, will be required for the faithful performance of the Contract. Attorneys-in-fact who sign bid bonds or payment bonds and performance bonds must file with each bond, a certified and effective dated copy of their power of attorney.

If a contract is awarded, the Town Manager will select the proposal that is in the best interest of the Town of Braselton. The contract will be awarded, if at all, within 60 calendar days after the opening of the proposals, unless a longer period is specified in the proposal or the successful bidder agrees, in writing, for a longer period for the award. The successful bidder will be notified by an e-mail, letter, or facsimile transmission, to the FAX number or the address shown on his proposal, that his bid has been accepted and that he has been awarded the contract.

The party to whom the Contract is awarded will be required to execute the agreement and obtain the performance bond and payment bond within ten (10) calendar days from the date when Notice of Award is delivered to the bidder. The Notice of Award shall be accompanied by the necessary agreement and bond forms. In case of failure of the bidder to execute the agreement, the Owner may at his option consider the bidder in default; in which case the bid bond accompanying the proposal shall become the property of the Owner. A certified check or letter from bank certifying that an escrow account has been opened in the name of the Town of Braselton may be used in lieu of a performance and payment bond. The amount of the certified check or escrow account shall be 100% of the Contract amount and shall be the property of the Owner until final acceptance of the completed project.

The Owner within ten (10) days of receipt of acceptable performance bond, payment bond and agreement signed by the party to whom the agreement was awarded shall sign the agreement and return to such party an executed duplicate of the agreement. Should the Owner not execute the agreement within such period, the bidder may by written notice withdraw his signed agreement. Such notice of withdrawal shall be effective upon receipt of the notice by the Owner.

The Notice to Proceed shall be issued within ten (10) days of the execution of the agreement and receipt of the executed payment bond and performance bond by the Owner. Should there be reasons why the Notice to Proceed cannot be issued within such period, the time may be

extended by mutual agreement between the Owner and contractor. If the Notice to Proceed has not been issued within the ten (10) day period or within the period mutually agreed upon, the contractor may terminate the agreement without further liability on the part of either party.

The Owner may make such investigations as he deems necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish to the Owner all such information and data for this purpose as the Owner may request. The Owner reserves the right to reject any bid if the evidence submitted by, or investigation of such bidder fails to satisfy the Owner that such bidder is properly qualified to carry out the obligations of the agreement and to complete the work contemplated therein.

All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the Contract throughout.

Each bidder is responsible for inspecting the site and for reading and being thoroughly familiar with the contract documents. The failure or omission of any bidder to do any of the foregoing shall in no way relieve any bidder from any obligation in respect to his/her bid.

The low bidder shall supply the names and addresses of subcontractors when requested to do so by the Owner.

All work performed for this project shall be in accordance with the current edition of Georgia Department of Transportation Standard Specification for Construction of Transportation Systems and attached modifications and special provisions.

## **MANDATORY REQUIREMENTS**

This section identifies all mandatory requirements which must be executed and present in the proposal before further consideration will be given.

### Proposal Requirements

- a. Cover (Page 1)
- b. Completed Bid Schedule and Bid Execution Form that addresses all elements of the Scope of Work referenced in the Report of this RFP (Pages 9-23)
- c. Proof of Insurance
- d. Amendment Certification (Page 24)
- e. SAVE Affidavit (Page 25)
- f. E-Verify Affidavit (Page 26)
- g. Drug and Alcohol Compliance (Page 27)
- h. General Conditions (Page 28)
- i. Bid Bond

## BID SCHEDULE

<b>CLEARWATER PLANTATION</b>				
<b>2436 COMMISSIONER COVE</b>				
Item Number	Item Description	Units	Quantity	Unit Price
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	1.0	
441-6012	CONC CURB AND GUTTER, 6 IN X 24 IN, TP 2	LF	20.0	
700-9300	SOD	SY	1.0	
<b>2437 COMMISSIONER COVE</b>				
Item Number	Item Description	Units	Quantity	Unit Price
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	2.7	
700-9300	SOD	SY	2.0	
<b>2322 COUNCIL LANE</b>				
Item Number	Item Description	Units	Quantity	Unit Price
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	3.6	
700-9300	SOD	SY	2.0	
<b>2073 DEMOCRACY DRIVE</b>				
Item Number	Item Description	Units	Quantity	Unit Price
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	3.6	
441-6012	CONC CURB AND GUTTER, 6 IN X 24 IN, TP 2	LF	6.0	
700-9300	SOD	SY	2.0	
<b>2207 DEMOCRACY DRIVE</b>				
Item Number	Item Description	Units	Quantity	Unit Price
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
700-9300	SOD	SY	1.0	
<b>2207-2213 DEMOCRACY DRIVE</b>				
Item Number	Item Description	Units	Quantity	Unit Price
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-6012	CONC CURB AND GUTTER, 6 IN X 24 IN, TP 2	LF	21.0	
<b>2103 INDEPENDENCE LANE</b>				
Item Number	Item Description	Units	Quantity	Unit Price
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-3999	CONCRETE V GUTTER (ROLLED CURB AND GUTTER)	LF	10	

<b>2105 INDEPENDENCE LANE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	4.5	
700-9300	SOD	SY	3.0	
<b>2135 INDEPENDENCE LANE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	4.5	
700-9300	SOD	SY	3.0	
<b>2144 INDEPENDENCE LANE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	3.4	
441-6012	CONC CURB AND GUTTER, 6 IN X 24 IN, TP 2	LF	3.0	
700-9300	SOD	SY	2.0	
<b>2824 LEGISLATIVE LANE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	7.2	
700-9300	SOD	SY	4.0	
<b>2955 LEGISLATIVE LANE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	5.6	
700-9300	SOD	SY	3.0	
<b>LEGISLATIVE LANE AT SENATOR COURT</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
700-9300	SOD	SY	1.0	
<b>CLEARWATER PLANTATION TOTAL: \$ _____</b>				

## LIBERTY ESTATES

### 838 NEW LIBERTY WAY

Item Number	Item Description	Units	Quantity	Unit Price
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	4.5	
700-9300	SOD	SY	3.0	

### 852 NEW LIBERTY WAY

Item Number	Item Description	Units	Quantity	Unit Price
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	1.8	
700-9300	SOD	SY	2.0	

**LIBERTY ESTATES TOTAL: \$ \_\_\_\_\_**

<b>MULBERRY PARK</b>				
<b>2641 BALD CYPRESS DRIVE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	4.2	
700-9300	SOD	SY	3.0	
<b>2651 BALD CYPRESS DRIVE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	1.8	
700-9300	SOD	SY	1.0	
<b>6833 GRAND HICKORY DRIVE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	1.8	
700-9300	SOD	SY	1.0	
<b>GRAND HICKORY DRIVE AT BALD CYPRESS</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	1.4	
441-3999	CONCRETE V GUTTER (ROLLED CURB AND GUTTER)	LF	19	
700-9300	SOD	SY	1.0	
<b>7071 SILK TREE POINTE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	2.7	
700-9300	SOD	SY	2.0	
<b>7101 SILK TREE POINTE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	3.8	
700-9300	SOD	SY	2.0	
<b>7120 SILK TREE POINTE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	3.2	
441-6012	CONC CURB AND GUTTER, 6 IN X 24 IN, TP 2	LF	2	
700-9300	SOD	SY	2.0	

<b>7191 SILK TREE POINTE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	3.6	
700-9300	SOD	SY	2.0	
<b>7210 SILK TREE POINTE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1018	TRAFFIC CONTROL	LS	1.0	
210-0118	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	6.0	
700-9300	SOD	SY	3.0	
<b>7370 SILK TREE POINTE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-6012	CONC CURB AND GUTTER, 6 IN X 24 IN, TP 2	LF	2	
700-9300	SOD	SY	2.0	
<b>7371 SILK TREE POINTE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	7.7	
441-6012	CONC CURB AND GUTTER, 6 IN X 24 IN, TP 2	LF	2	
700-9300	SOD	SY	5.0	
<b>7581 SILK TREE POINTE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	6.6	
700-9300	SOD	SY	3.0	
<b>7700 SILK TREE POINTE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	0.7	
700-9300	SOD	SY	1.0	
<b>MULBERRY PARK TOTAL:</b>				<b>\$ _____</b>

# REFLECTIONS

2962 CLIMBING ROSE STREET

Item Number	Item Description	Units	Quantity	Unit Price
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-6012	CONC CURB AND GUTTER, 6 IN X 24 IN, TP 2	LF	8	
<b>REFLECTIONS TOTAL:</b>				<b>\$_____</b>

<b>RIVERSTONE PARK</b>				
<b>5735 BERKSHIRE TRACE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	4.0	
441-6012	CONC CURB AND GUTTER, 6 IN X 24 IN, TP 2	LF	5	
700-9300	SOD	SY	2.0	
<b>5767 BERKSHIRE TRACE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0016	DRIVEWAY CONCRETE, 6 IN TK	SY	1	
441-0104	CONC SIDEWALK, 4 IN	SY	4.5	
441-6012	CONC CURB AND GUTTER, 6 IN X 24 IN, TP 2	LF	5	
700-9300	SOD	SY	3.0	
<b>6241 HARRIS COURT</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0016	DRIVEWAY CONCRETE, 6 IN TK	SY	37	
441-0104	CONC SIDEWALK, 4 IN	SY	3.6	
700-9300	SOD	SY	6.0	
<b>6317 MARCELINA COURT</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-6012	CONC CURB AND GUTTER, 6 IN X 24 IN, TP 2	LF	4	
<b>5788 RIVERVIEW PARKWAY</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	4.9	
700-9300	SOD	SY	3.0	
<b>5805 RIVERVIEW PARKWAY</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	19.6	
700-9300	SOD	SY	10.0	
<b>6007 RIVERVIEW PARKWAY</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	1.4	
700-9300	SOD	SY	1.0	

<b>6225-6229 RIVERVIEW PARKWAY</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
700-9300	SOD	SY	4.0	
<b>6237-6241 RIVERVIEW PARKWAY</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
700-9300	SOD	SY	4.0	
<b>RIVERVIEW PARKWAY AT HIGHWAY 211</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-3999	CONCRETE V GUTTER (ROLLED CURB AND GUTTER)	LF	7	
<b>RIVERVIEW PARKWAY- FIRST ROUNDABOUT</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	30.6	
441-6012	CONC CURB AND GUTTER, 6 IN X 24 IN, TP 2	LF	16	
700-9300	SOD	SY	13.0	
<b>RIVERVIEW PARKWAY - SECOND ROUNDABOUT</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	21.6	
700-9300	SOD	SY	9.0	
<b>6354 STONEBRIDGE COVE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	7.3	
700-9300	SOD	SY	3.0	
<b>6080 SUMMERALL CIRCLE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	7.3	
441-6012	CONC CURB AND GUTTER, 6 IN X 24 IN, TP 2	LF	4	
700-9300	SOD	SY	3.0	
<b>SUMMERALL CIRCLE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	12.3	
700-9300	SOD	SY	5.0	
<b>RIVERSTONE PARK TOTAL:</b>				<b>\$ _____</b>

# THE FALLS

## 1701 AMMONS FALL COURT

Item Number	Item Description	Units	Quantity	Unit Price
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-3999	CONCRETE V GUTTER (ROLLED CURB AND GUTTER)	LF	41	

## FISK FALLS DRIVE AT AUGER FALLS DRIVE

Item Number	Item Description	Units	Quantity	Unit Price
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	6.7	
441-0104	CONC SIDEWALK, 4 IN, RED TREADED FINISH	SY	2.3	
700-9300	SOD	SY	6.0	

## FISK FALLS DRIVE AT MADRID FALLS DRIVE

Item Number	Item Description	Units	Quantity	Unit Price
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	6.0	
441-3999	CONCRETE V GUTTER (ROLLED CURB AND GUTTER)	LF	20	
700-9300	SOD	SY	2.0	

## 2441 FISK FALLS DRIVE

Item Number	Item Description	Units	Quantity	Unit Price
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	3.6	
700-9300	SOD	SY	2.0	

## 1918 HENDERSON FALLS WAY

Item Number	Item Description	Units	Quantity	Unit Price
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	3.6	
700-9300	SOD	SY	2.0	

## 1420 KILCHIS FALLS WAY

Item Number	Item Description	Units	Quantity	Unit Price
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	3.6	
700-9300	SOD	SY	2.0	

## 2318 LOOWIT FALLS DRIVE

Item Number	Item Description	Units	Quantity	Unit Price
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	3.6	
700-9300	SOD	SY	2.0	

<b>1318 LOOWIT FALLS WAY</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-3999	CONCRETE V GUTTER (ROLLED CURB AND GUTTER)	LF	7.0	
<b>1327 LOOWIT FALLS WAY</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	4.5	
700-9300	SOD	SY	2.0	
<b>1392 LOOWIT FALLS WAY</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	6.7	
700-9300	SOD	SY	4.0	
<b>1841-1845 MADRID FALLS</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0016	DRIVEWAY CONCRETE, 6 IN TK	SY	15	
441-6012	CONC CURB AND GUTTER, 6 IN X 24 IN, TP 2	LF	18	
700-9300	SOD	SY	3.0	
<b>1600 SAHALE FALLS DRIVE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-3999	CONCRETE V GUTTER (ROLLED CURB AND GUTTER)	LF	8.0	
611-4001	RECONSTRUCT MISC DRAINAGE STRUCTURE	EA	1.0	
<b>1609 SAHALE FALLS DRIVE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	11.0	
700-9300	SOD	SY	6.0	
<b>901 WALLACE FALLS DRIVE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-3999	CONCRETE V GUTTER (ROLLED CURB AND GUTTER)	LF	28	
441-0104	CONC SIDEWALK, 4 IN	SY	4.2	
700-9300	SOD	SY	2.0	

<b>917 WALLACE FALLS DRIVE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	5.8	
700-9300	SOD	SY	3.0	
<b>919 WALLACE FALLS DRIVE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	4.5	
700-9300	SOD	SY	3.0	
<b>920 WALLACE FALLS DRIVE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
611-4001	RECONSTRUCT MISC DRAINAGE STRUCTURE	EA	1.0	
<b>927 WALLACE FALLS DRIVE</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	6.3	
700-9300	SOD	SY	4.0	
<b>THE FALLS TOTAL:</b>				<b>\$ _____</b>

## VINEYARD GATE

### 211 REISLING DRIVE

Item Number	Item Description	Units	Quantity	Unit Price
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	4.4	
700-9300	SOD	SY	3.0	

### 251 REISLING DRIVE

Item Number	Item Description	Units	Quantity	Unit Price
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	3.7	
700-9300	SOD	SY	424.3	

### 265 REISLING DRIVE

Item Number	Item Description	Units	Quantity	Unit Price
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	4.4	
700-9300	SOD	SY	3.0	

### 424 REISLING DRIVE

Item Number	Item Description	Units	Quantity	Unit Price
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	2.4	
700-9300	SOD	SY	2.0	

**VINEYARD GATE TOTAL: \$\_\_\_\_\_**

<b>HIGHWAY 53</b>				
<b>DAVIS STREET - MILL</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN - EXPOSED AGGREGATE	SY	15.6	
700-9300	SOD	SY	2.0	
<b>DAVIS STREET - LOCAL STATION</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN - EXPOSED AGGREGATE	SY	22.4	
700-9300	SOD	SY	4.0	
<b>4986 HIGHWAY 53</b>				
<b>Item Number</b>	<b>Item Description</b>	<b>Units</b>	<b>Quantity</b>	<b>Unit Price</b>
150-1000	TRAFFIC CONTROL	LS	1.0	
210-0100	GRADING COMPLETE	LS	1.0	
441-0104	CONC SIDEWALK, 4 IN	SY	6.4	
<b>HIGHWAY 53 TOTAL:</b>				<b>\$ _____</b>

**TOTAL BID PRICE     \$ \_\_\_\_\_**

**CONTRACTOR TO FILL IN ALL UNIT PRICES, SUBDIVISION/ LOCATION TOTALS, AND SUM TOTALS IN BOXES MARKED AS "TOTAL BID PRICE". PROJECT WILL BE AWARDED AS LUMP SUM.**

**LOCATIONS CAN BE ADDED, DELETED, OR MODIFIED AT THE TOWN OF BRASELTON'S DISCRETION.**

**LOCATIONS OF REPAIRS ARE NOT GUARANTEED TO BE COMPLETED AT THE SAME TIME. CONTRACTORS SHOULD ASSUME MULTIPLE MOBILIZATIONS AT THE DIRECTION OF THE TOWN.**

CONTRACTOR SIGNATURE: \_\_\_\_\_

CONTRACTOR SEAL: \_\_\_\_\_

DATE: \_\_\_\_\_

# BID EXECUTION FORM

To: Town of Braselton  
P.O. Box 306  
Braselton, GA 30517

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

From: \_\_\_\_\_  
(Contractor)

\_\_\_\_\_  
(Address)

I have examined the Invitation to Bid, the latest Georgia Department of Transportation Standard Specifications, Supplemental Specifications, General Conditions, Special Provisions, and Drawings for the project entitled **Town of Braselton Sidewalk and Drainage Repairs Project**. I have examined the site and the conditions affecting the work. I have also received Amendments Numbered \_\_\_\_\_ and have included their provisions in this Proposal.

I propose to furnish all services, labor, material, tools, equipment, transportation, supervision and other items necessary to complete the construction of the project in its entirety, in accordance with the Specifications and Drawings, for the lump sum of:

## BASE BID

\_\_\_\_\_ Dollars (\$\_\_\_\_\_)

In submitting this Proposal, I also agree:

1. Not to withdraw or modify this Proposal for a period of sixty (60) days following the opening of bids.
2. If I am notified in writing of acceptance of this Proposal within sixty (60) days after the time set for the opening of the bids, I agree to execute a written Contract for the compensation herein stated within ten (10) days, in accordance with the Instructions for Bidders, and at the same time, furnish and deliver to the Town of Braselton a Performance Bond in the amount of one hundred percent (100%) of the Contract sum and a Payment Bond in the amount of one hundred percent (100%) of the Contract sum.
3. To start work within ten (10) days of the Notice to Proceed with an adequate force and equipment to complete all work required by the Contract within **one hundred sixty (160)** consecutive calendar days.

4. Ten percent retainage will be held until final acceptance of the project by the Town of Braselton.
5. Portions/Locations of the repairs can be added, deleted, or modified at the Town of Braselton's discretion. Locations are not guaranteed to be repairs at the same time. Contractor should assume multiple mobilizations at the direction of the Town.
6. That this Proposal is made subject to all the terms and conditions on the Invitation for Bids, Instructions for Bidders, the latest Georgia Department of Transportation Standard Specifications, Supplemental Specifications, General Conditions, Special Provisions, and Report, and this Proposal is made in good faith, without collusion or connection with any other person bidding the same work.
5. I have attached a Bid Bond in an amount not less than five percent (5%) of my total bid price from \_\_\_\_\_ or a cashier's check.

(Surety Company)

**This Proposal is submitted in the name of:**

Contractor: \_\_\_\_\_ Phone: \_\_\_\_\_

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

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

Secretary: \_\_\_\_\_

Witness: \_\_\_\_\_

## AMENDMENT CERTIFICATION

I hereby acknowledge receipt of the following checked amendments of the Proposal, Plans, Specifications, and/or documents pertaining to the Contract.

Amendment Number: 1  2  3  4  5

I understand that failure to confirm the receipt of amendments is cause for rejection of bids.

\_\_\_\_\_  
Company Name

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

Witness my hand and seal this the \_\_\_\_ day of \_\_\_\_, 20\_\_.

The bidder (s) whose signature (s) appears on this Document, having personally appeared before me, and being duly sworn, deposes and says that the above statements are true and correct.

Sworn to and subscribed before me this \_\_\_\_ day of \_\_\_\_, 20\_\_.

\_\_\_\_\_  
(Notary Public)

My commission expires on the \_\_\_\_ day of \_\_\_\_, 20\_\_.

**SAVE AFFIDAVIT**

By executing this affidavit under oath, as an applicant for a public benefit, as referenced in the Georgia Security and Immigration Compliance Act (O.C.G.A. § 50-36-1), the undersigned applicant verifies the following with respect to my application for award of a contract with the Town of Braselton, Georgia.

\_\_\_\_\_ I am a United States Citizen.

OR

\_\_\_\_\_ I am a legal permanent resident of the United States or an otherwise qualified alien or non-immigrant under the Federal Immigration and Nationality Act, 18 years of age or older and lawfully present in the United States.

The undersigned applicant also hereby verifies that he or she has provided at least one secure and verifiable document, as required by O.C.G. A. § 50-36-1(e) (1), with this affidavit.

In making the above representation under oath, I understand that any person who knowingly and willfully makes a false, fictitious, or fraudulent statement or representation in an affidavit shall be guilty of a violation of O.C.G.A. 16-10-20 and face criminal penalties as allowed by such criminal statute.

Executed this the \_\_\_ day of \_\_\_\_\_, 20\_\_ in \_\_\_\_\_(city), \_\_\_\_\_(state)

\_\_\_\_\_  
Signature of Applicant

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name of Applicant

\_\_\_\_\_  
Alien Registration Number (if applicable)

\_\_\_\_\_  
Applying on Behalf of/Business Name

SUBSCRIBED AND SWORN  
BEFORE ME ON THIS THE  
\_\_\_ DAY OF \_\_\_\_\_, 201\_

\_\_\_\_\_  
NOTARY PUBLIC  
My Commission Expires:

## E-VERIFY CONTRACTOR AFFIDAVIT

By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services under a contract with (name or contractor) on behalf of (name of public employer) has registered with and is participating in a federal work authorization program\* [any of the electronic verification of work authorization programs operated by the United States Department of Homeland Security or any equivalent federal work authorization program operated by the United States Department of Homeland Security to verify information of newly hired employees, pursuant to the Immigration Reform and Control Act of 1986 (RCA), P.L. 99-603], in accordance with the applicability provisions and deadlines established in O.C.G.A. 13-10-91.

The undersigned further agrees that, should it employ or contract with any subcontractor(s) in connection with the physical performance of services pursuant to this contract with (name of public employer), contractor will secure from such subcontractor(s) similar verification of compliance with O.C.G.A. 13-10-91 on the Subcontractor Affidavit provided in Rule 300-10-01-.08 or a substantially similar for. Contractor further agrees to maintain records of such compliance and provide a copy of each such verification to the (name of the public employer) at the time the subcontractor(s) is retained to perform such service.

\_\_\_\_\_  
EEV/ Basic Pilot Program\* User Identification Number

\_\_\_\_\_  
BY: Authorized Officer or Agent  
(Contractor name)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Title of Authorized Officer or Agent of Contractor

\_\_\_\_\_  
Printed Name of Authorized Officer or Agent

SUBSCRIBED AND SWORN  
BEFORE ME ON THIS THE  
\_\_\_ DAY OF \_\_\_\_\_, 20\_\_

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

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

\*As of the effective date of O.C.G.A. 13-10-91, the applicable federal work authorization program is the "EEV / Basic Pilot Program" operated by the U.S. Citizenship and Immigration Services Bureau of the U.S. Department of Homeland Security, in conjunction with the Social Security Administration (SSA).

(End of Form)

Authority O.C.G.A. 13-10-91

# **DRUG AND ALCOHOL COMPLIANCE**

## **Town of Braselton**

### DRUG AND ALCOHOL POLICY AND TESTING PROGRAM

All Contractors performing work for the Town of Braselton shall have a Drug and Alcohol Policy and Testing Program. The policy must comply with Federal Transit Administration testing regulations (49 CFR Parts 653, 654, 40), Federal Highway Administration testing procedures (49 CFR Part 382), and the Drug Free Workplace Act of 1988. The awarded contractor must have a drug and alcohol-free workplace in order to reduce the probability of accidents or incidents related to the use and/or abuse of alcohol and other drugs and to establish guidelines designed to help prevent accidents and injuries resulting from the misuse of alcohol or the use of controlled substances by drivers of commercial motor vehicles.

In signing below, I, \_\_\_\_\_, an authorized representative of \_\_\_\_\_, am acknowledging that a Drug and Alcohol Policy is in full effect, and a copy of said policy is on file at the company office and can be made available.

\_\_\_\_\_  
(Signature)

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

## GENERAL CONDITIONS

1. The data, together with all other information shown on these plans, or in any way indicated thereby, whether by drawings or notes, or in any other manner, are based upon field investigations and are believed to be indicative of actual conditions. However, the same are shown as information only, are not guaranteed and do not bind the Town of Braselton in any way. The attention of the bidder is specifically directed to sections 102.04, 102.05, and 104.03 of the specifications.
2. The attention of the contractor is specifically directed to section 107.09 of the specifications regarding barricades, danger, warning, and detour signs.
3. Debris displaced by the repair operation shall be removed from all lawns, driveways and sidewalks in order to match existing ground conditions, and as specified in section 104.05 of the specifications, at no additional cost to the Town of Braselton. Any existing sod, grassing, landscaped features, or property that is damaged shall be replaced, at no additional cost to the Town of Braselton.
4. The contractor shall be responsible for maintaining all drainage structures within the limits of the project throughout the duration of the project. Any debris that goes in drainage structures as a result of the repair operation shall be cleaned out by the contractor at no additional cost to the Town of Braselton.
5. The contractor shall remove and reset any signs or delineators in conflict with the work. The cost shall be included in the overall bid price. The contractor shall be responsible for protecting and storing removed signs and delineators until being reset.
6. The contractor and all of its employees and or subcontractors shall be in uniform at all times and refrain from associating with any of the Town of Braselton's residents located in construction zone.
7. The contractor shall at no time block any driveways or deny any of the Town of Braselton residents' access to and from their homes.

Contractor: \_\_\_\_\_ Phone: \_\_\_\_\_

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

\_\_\_\_\_

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

Secretary: \_\_\_\_\_

Witness: \_\_\_\_\_

## **SPECIAL PROVISIONS**

### **SECTION 101-DEFINITIONS OF TERMS**

101.14 Commissioner	Delete as written and substitute the following: Town of Braselton
101.22 Department	Delete as written and substitute the following: Town of Braselton Engineering Department
101.24 Engineer	Delete as written and substitute the following: Town of Braselton Engineer or designee

### **SECTION 102 - BIDDING REQUIREMENTS AND CONDITIONS**

*Replace Section 102 with the following:*

#### **102.07        Rejection of Proposals**

Proposals may be rejected as irregular if their consideration is conditioned upon the acceptance or rejection of other Proposals submitted by the same Bidder, if the Certificate of Current Capacity is not executed under Oath and substantiated, or if a Unit Price is not shown for each Pay Item. In the case of alternate items, Unit Prices shall be entered for only one alternate.

**A. Unbalanced Bids**

Proposals may be rejected if any of the Unit Prices are obviously unbalanced. The Department will decide whether any Unit Prices are unbalanced either excessively above or below a reasonable cost analysis value determined by the Engineer, particularly if these unbalanced amounts are substantial and contrary to the interest of the Department.

**B. Omissions and Alterations**

Proposals may be rejected as irregular if they show any omissions, alterations of form, additions or conditions not called for, unauthorized alternate bids, erasures or changes not initialed, or other irregularities.

**C. Technicalities**

The Department reserves the right to reject any and all Proposals and to waive technicalities at any time before the Contract has been signed by the Department.

## **SECTION 103-AWARD AND EXECUTION OF CONTRACT**

*Delete this Section in its entirety with exception of Section 103.1, Consideration of Proposals.*

## **SECTION 105 – CONTROL OF WORK**

105.05 COOPERATION BY CONTRACTOR: *Add the following:*

The on-site Project Superintendent must have a minimum of 10 years experience as a Superintendent on projects similar in size and complexity. In this context, the Project Superintendent shall be the individual with overall responsibility for management, quality, and production on the project. The Project Superintendent is subject to removal by the Engineer for non-compliance with requirements specified in the Contract and for failure to manage the project to insure timely completion.

Approval of the on-site Project Superintendent is required prior to the start of construction. The Contractor shall submit a resume for the proposed Project Superintendent describing his experience with references and qualifications to the Engineer for approval. The Engineer reserves the right to interview the proposed on-site Project Superintendent at any time in order to verify the submitted qualifications.

## **SECTION 108-PROSECUTION AND PROGRESS**

*Delete paragraphs one through four of Subsection 108.01 and substitute the following:*

The contractor shall not sublet, sell, transfer, assign, or otherwise dispose of the Contract or Contracts, or any portion thereof, or of his/her right title, or interest therein, without written consent of the Engineer. For Subcontracts, consent of the Engineer will not be considered until after award of the Contract.

In case such consent is given, the Contractor will be permitted to sublet a portion thereof, but shall perform, with his/her own organization, work amounting to not less than seventy percent (70%) of the total Contract cost, including materials, equipment, and labor.

As a further exception, any items designated as "Specialty Items" may be performed by Subcontract and the cost of any such Specialty Items so performed by Subcontract may be deducted from the total cost before computing the amount of work required to be performed by the Contractor with his/her own organization.

Purchase of materials by the Prime Contractor for use by a Subcontractor will not be allowed when computing the 70% requirement.

## **SECTION 109-MEASUREMENT AND PAYMENT**

*Delete the second paragraph of Section 109.07.A. and add the following to Section 109:*

Prime Contractors who sublet a portion of their work shall pay their subcontractors for satisfactory performance of their contracts no later than 15 calendar days from receipt of each payment made to them. Any delay or postponement of payment among the parties may take place only for good cause with prior written approval from the Town.

The Prime Contractor shall produce a signed affidavit verifying final and complete payment of subcontractors before final acceptance will be made by the Town.

If the contractor is found to be in noncompliance with these provisions, it shall constitute a breach of contract and further payment for any work performed may be withheld until corrective action is taken. If corrective action is not taken, it may result in termination of the contract.

All subcontract agreements shall contain this requirement.

## **SECTION 150 - TRAFFIC CONTROL**

February 01, 2017  
Revised October 22, 2018  
Revised December 7, 2020  
Revised June 22, 2022  
Revised January 24, 2024

# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

## SPECIAL PROVISION

### Section 150—Traffic Control

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#### 150.1 General Description

This section, as supplemented by the Plans, Specifications, and Manual on Uniform Traffic Control Devices ([MUTCD](#)) shall be considered the Temporary Traffic Control (TTC) Plan in accordance with Work Zone Safety and Mobility Policy. Activities shall consist of furnishing, installing, maintaining, and removing necessary traffic signs, pedestrian signs, barricades, lights, signals, cones, pavement markings and other traffic control devices and shall include flagging and other means for guidance and protection of vehicular and pedestrian traffic through the Work Zone. This Work shall include both maintaining existing devices and installing additional devices as necessary in construction work zones.

The Contractor shall be responsible for the maintenance of traffic signals and Advanced Traffic Management System (ATMs) devices from the time that the system is modified until final acceptance. The maintenance of traffic signals and ATMs devices that are not a part of the Work and that are not in conflict with any portion of the Work shall not be the responsibility of the Contractor. However, the Contractor is still responsible for damages to all devices that they or their subcontractors cause, in accordance with Section 107 and other Specifications.

When any provisions of this Specification or the Plans do not meet the minimum requirements of the [MUTCD](#), the [MUTCD](#) shall control. The 2023 Edition of the [MUTCD](#) including revisions shall be in effect for the duration of the project.

All traffic control devices used during the construction of the project shall meet the standards utilized in the [MUTCD](#), and shall comply with the requirements of these Specifications, Georgia Construction Standards and Details, Project Plans, Design Manuals, and Special Provisions.

The needs and control of all road users (motorists, bicyclists and pedestrians within the highway right-of-way and easements, including persons with disabilities in accordance with the Americans with Disabilities Act of 1990 (ADA), Title II,) through a Temporary Traffic Control (TTC) zone shall be an essential part of highway construction, utility work, maintenance operations and management of traffic incidents.

Utilities included in the Contract are bound by Special Provision 150 and shall follow its requirements. For utilities not included in the Contract but working within the project limits, they shall, at a minimum follow the [MUTCD](#). Moreover, in accordance with [Utility Accommodation Policy and Standards Manual dated 2016](#), the Engineer reserves the right to require additional certified flaggers, signs, warning lights, channelization devices, and other safety devices as may be necessary to properly protect, warn, and safeguard the traveling public. In addition, the Department reserves the right to place time restrictions or moratoriums on all utility work covered under a permit when, in the opinion of the Department, the continuance of the Work would seriously hinder traffic flow, be needlessly disruptive, or would unnecessarily inconvenience the traveling public. In case of emergencies, Utilities shall be provided access in accordance with [Utility Accommodation Policy and Standards Manual](#).

## **150.1.01 Definitions**

For Special Provision 150, the definitions for “shall”, “ should”, and “may” will be in accordance with [MUTCD \(1A.13\) \(1C.02\)](#).

Shall (Standard) - a statement of required, mandatory, or specifically prohibitive practice regarding a traffic control device.

Should (Guidance) - a statement of recommended, but not mandatory, practice in typical situations, with deviations allowed if engineering judgment or engineering study indicates the deviation to be appropriate.

May (Option) - a statement of practice that is a permissive condition and carries no requirement or recommendation.

## **150.1.02 Content**

### **150.1 General Description**

#### 150.1.01 Definitions

#### 150.1.02 Content

#### 150.1.03 Related References

- A. Standard Specification
- B. Reference Documents

#### 150.1.04 Submittals/Preconstruction

- A. Worksite Traffic Control Supervisor
- B. Sequence of Operations
- C. Pedestrian Considerations

- 1. Pedestrian Signage
- 2. Temporary Pedestrian Facilities

### **150.2 Materials and Traffic Control Devices**

#### 150.2.01 Traffic Control Devices

- A. NCHRP 350 and MASH
- B. Approval
- C. Quality Guidelines for All Temporary Traffic Devices

#### 150.2.02 Reflectorization Requirements

- A. Signs
- B. Channelization Devices

#### 150.2.03 Arrow Panels

150.2.04 Channelization Devices

A. General

B. Drums

1. Design
2. Application
3. Longitudinal Channelization
4. Removal

C. Vertical Panels

1. Design
2. Application

D. Cones

1. Design
2. Applications

E. Barricades

1. Design
2. Application

F. Warning Lights

1. Design
2. Application

150.2.05 Flashing Beacon

150.2.06 Guardrail

150.2.07 Interim Signs

A. Posts

B. Sign Blanks and Panels

150.2.08 Pavement Markings

- A. All Traffic Striping for Forty-Five (45) Days or Less ( $\leq 45$  Days)
- B. All Temporary Striping Beyond Forty-Five (45) days ( $>45$  Days)
- C. All Temporary Traffic Striping on Final Surface

150.2.09 Portable Changeable Message Signs

150.2.10 Portable Impact Attenuators

150.2.11 Portable Temporary Traffic Control Signals

150.2.12 Raised Pavement Markers

150.2.13 Rumble Strips

150.2.14 Temporary Barriers

- A. Design
- B. Application

150.2.15 Temporary Guardrail Anchorage- Type 12

150.2.16 Temporary Traffic Signal

**150.3 Construction Requirements**

150.3.01 General

- A. Implementation Requirements
- B. Maintenance of Traffic Control Devices
- C. Traffic Interruption Restrictions
- D. Work Zone Restrictions
  - 1. Interstate
  - 2. Non-Interstate Divided Highways
  - 3. Non-Divided Highways
- E. Work Zone Geometric Restrictions
- F. Clear Zone
- G. Milled Surface Restrictions
- H. Construction Vehicle
- I. Environmental Impacts
- J. Existing Street Lights
- K. Nighttime Work Lighting
- L. Removal/Reinstallation of Miscellaneous Items

150.3.02 Personnel – Worker Safety Apparel

150.3.03 Signage – General

- A. Signing Requirements of the Temporary Traffic Control (TTC) Plan
- B. Conflicting or Non-Applicable Signs
- C. Removal of Existing Signs and Supports
- D. Interim Guide, Warning and Regulatory Signs
- E. Existing Special Guide Signs
  - 1. Special Guide Signs
  - 2. Interim Special Guide Signs
  - 3. Interim Overhead Guide Sign Structures
  - 4. Permanent Special Guide Signs
- F. Stop Sign Regulated Intersections
- G. Low Shoulder Signage
  - 1. Low Shoulder for Construction/Reconstruction/Resurfacing Projects
  - 2. Shoulder Drop-Off for Construction/Reconstruction/Resurfacing Project
- H. Bump Signage

I. Sign Visibility

150.3.04 Advance Warning Signs

A. Project Signs - All Type of Highways

1. State Routes
2. Interstate, Limited Access and Multilane Divided Highways
3. Ramp Work on Limited Access Highways

B. Highway Work Zone

1. No Reduction in the Existing Posted Speed Limit in Highway Work Zone
2. Reducing the Speed Limit in a Highway Work Zone
3. Variable Speed Limit Zones

C. Installation/Removal of Work Area Signage

150.3.05 Shoulder/Lane Closure

A. Approval/Restrictions

1. Closure Length
2. Duration

B. Shoulder Closure

C. Lane Closure

1. Advance Warning Signs
2. Transition Area – Taper
3. Activity Area
4. Termination Area

D. Removal of Lane Closures

E. Exit and Entrance Ramps

150.3.06 Traffic Pacing Method

A. Pacing of Traffic

B. Methods of Signing for Traffic Pacing

150.3.07 Flagging Operation

A. Flaggers

B. Flagger Certification

C. Flagger Appearance and Equipment

D. Flagger Warning Signs

E. Pilot Vehicle Requirements

F. Automated Flagger Assistance Devices

G. Portable Temporary Traffic Control Signals

150.3.08 Traffic Signals

- A. Responsibility/Cost
- B. Law Enforcement Officer Requirement

150.3.09 Mobile Operations

150.3.10 Pavement Markings

A. General

- 1. Resurfacing Projects
- 2. Widening and Reconstruction Projects
- 3. New Location Construction Projects

B. Installation and Removal of Pavement Markings

- 1. Installation
- 2. Removal
- 3. Intermediate Surface
- 4. Final Surface
- 5. Pay Factor Reduction for Asphaltic Concrete Final Surfaces
- 6. Preparation and Planning for Traffic ShiftsC. Raised Pavement Markers

- 1. Supplementing Lane Lines
- 2. Supplementing Ramp Gore Lines
- 3. Other Lines

D. Exceptions for Interim Markings

- 1. Two-Lane, Two-Way Roadway
- 2. Multi-Lane Highway - with No Paved Shoulder(s) or Paved Shoulder(s) Four Feet or Less ( $\leq 4'$ )
- 3. Limited Access Roadways and Roadways with Paved Shoulder Greater than Four Feet ( $>4'$ )
- 4. Ramps for Multi-lane Divided Highways
- 5. Miscellaneous Pavement Markings

150.3.11 Differences in Elevation between Travel Lanes and Shoulders

A. Differences in Elevations

- 1. Difference of Two Inches ( $\leq 2''$ ) or Less Between Adjacent Travel Lanes
- 2. Difference of Two Inches ( $\leq 2''$ ) or Less Between Adjacent Travel Lane and Paved Shoulder
- 3. Difference of Greater Than Two Inches ( $>2''$ ) is Permitted for Continuous Operations
- 4. Difference of Greater Than Two Inches ( $>2''$ ) Between Travel Lanes and/or Shoulders for Non-Continuous Operations

B. Healed Section

C. Emergency Situations

D. Plating

E. Asphaltic Concrete Resurfacing Projects

- 1. Shoulder Construction Included as a Part of the Contract
- 2. Shoulder Construction Not Included as a Part of the Contract

150.3.12 Work Zone Law Enforcement

**150.4 Measurement**

150.4.01 Traffic Control Items

- A. Traffic Control
- B. Changeable Message Sign, Portable
- C. Flashing Beacon Assembly
- D. Pavement Markings
- E. Portable Impact Attenuators
- F. Signs

1. Interim Ground Mounted or Interim Overhead Special Guide Signs
2. Remove and Reset Existing Special Guide Signs, Ground Mount or Overhead
3. Modify Special Guide Signs, Ground Mount or Overhead

- G. Temporary Audible Information Device
- H. Temporary Barrier
- I. Temporary Curb Cut Wheelchair Ramps
- J. Temporary Guardrail Anchorage, Type 12
- K. Temporary Walkways with Detectable Edging
- L. Traffic Signal Installation - Temporary
- M. Work Zone Law Enforcement

**150.5 Reserved**

**150.6 Special Conditions**

**150.7 Payment**

150.7.01 Enforcement and Adjustments

**150.1.03 Related References**

**A. Standard Specifications**

Section 104 - Scope of Work

Section 105 - -Control of Work-Legal Regulations and Responsibility to the Public

Section 107 - Legal Regulations and Responsibility to the Public

Section 108 - Prosecution and Progress

Section 209 - Subgrade Construction

Section 400 - Hot Mix Asphaltic Concrete Construction

Section 441 - Miscellaneous Concrete

Section 429 - Rumble Strips

Section 620 - Temporary Barrier

Section 632 - Portable Changeable Message Signs

Section 641 - Guardrail

Section 647 - Traffic Signal Installation

Section 648 - Traffic Impact Attenuator

Section 652 - Painting Traffic Stripe

Section 653 - Thermoplastic Traffic Stripe

Section 654 - Raised Pavement Markers

Section 656 - Removal of Pavement Markings

Section 657 - Preformed Plastic Pavement Markings

Section 658 - Polyurea Traffic Strip

Section 659 - Hot Applied Preformed Plastic Pavement Markings

Section 911 - Sign Posts

Section 912 - Sign Blanks and Panels

Section 913 - Reflectorizing Materials

## B. Referenced Documents

ASTM D4956-13 (Retro-reflectivity)

American Traffic Safety Services Association (ATSSA)

Construction Detail A-3 Curb Cut (Wheelchair) Ramps Concrete Sidewalk Details

Construction Detail A-4 Detectable Warning Surface Truncated Dome Size, Spacing and Alignment Requirements

Construction Detail T-3A (Type 7, 8, and 9 Square Tube Post Installation Detail)

GDOT Signing and Marking Design Guidelines

Georgia Standard 4000W “Lengths of Advancement, Clear Zone Distances, Fill Height Embankment”

Georgia Standard 4960 “Temporary Barrier (End Treatment Options)”

Georgia Standard 9102 “Traffic Control Detail for Lane Closure on Two-Lane Highway”

Georgia Standard 9106 “Traffic Control Detail for Lane Closure on Multi-Lane Divided Highway”

Georgia Standard 9107 “Traffic Control Detail for Lane Closure on Multi-Lane Undivided Highway”

Georgia Standard 9121 “Tapers, Signs, and Markings for Passing Lanes”

Manual for Assessing Safety Hardware (MASH)

Manual on Uniform Traffic Control Devices (MUTCD)

National Cooperative Highway Research Program (NCHRP) 350

National Safety Council

Qualified Product List #29 (QPL-29) Reflective Sheeting

Qualified Product List #34 (QPL-34) Work Zone Traffic Control Devices (Drums, Type III Barricades, Vertical Panels, and Portable Sign Systems)

Qualified Product List #35 (QPL-35) Drive Type Galvanized Steel Sign Posts

Qualified Product List #46 (QPL-46) Traffic Pavement Markings

Qualified Product List #64 (QPL-64) Attenuator Units (Compression Crash Cushion) and Guardrail End Treatments

Qualified Product List #76 (QPL-76) Raised Pavement Markers and Channel Markers

Qualified Product List #79 (QPL-79) Portable Arrow Boards

Qualified Product List #82 (QPL-82) “Portable Changeable Message Signs”

Utility Accommodation Policy and Standards Manual

Work Zone Safety and Mobility Policy

## 150.1.04 Submittals/Preconstruction

### A. Worksite Traffic Control Supervisor

The Contractor shall designate a qualified individual as the Worksite Traffic Control Supervisor (WTCS). The WTCS shall be responsible for selecting, installing, and maintaining all traffic control devices in accordance with the Plans, Specifications, Special Provisions and the [MUTCD](#). The WTCS shall be currently certified by the [American Traffic Safety Services Association \(ATSSA\)](#) Work Site Traffic Supervisor Certification program or the [National Safety Council](#) Certification program. On-line classes will not be accepted.

The WTCS shall be available on a twenty-four (24) hour basis to perform their duties. If the Work requires traffic control activities to be performed during the daylight and nighttime hours, it may be necessary for the Contractor to designate an alternate WTCS. An alternate WTCS must meet the same requirements and qualifications as the primary WTCS and be accepted by the Engineer prior to beginning any traffic control duties. The Worksite Traffic Control Supervisor's traffic control responsibilities shall have priority over all other assigned duties.

As the representative of the Contractor, the WTCS shall have full authority to act on behalf of the Contractor in administering the TTC Plan. The WTCS shall have appropriate training in safe traffic control practices in accordance with Part 6 of the [MUTCD](#). In addition to the WTCS, all other individuals making decisions regarding traffic control shall meet the training requirements of the Part 6 of the [MUTCD](#).

The Worksite Traffic Control Supervisor (WTCS) shall have a copy of Part 6 of the [MUTCD](#) and the Contract on the job site. Copies of the current MUTCD may be obtained from the FHWA web page at <http://mutcd.fhwa.dot.gov>.

The WTCS shall supervise the initial installation of traffic control devices. The Engineer, prior to the beginning of construction, will review the initial installation. Modifications to traffic control devices as required by sequence of operations or staged construction shall be reviewed by the WTCS.

Any work performed on the interstate or limited access highway right-of-way that requires traffic control shall be supervised by a submitted/approved certified Worksite Traffic Control Supervisor. No work requiring traffic control shall be performed unless the certified WTCS is on the worksite. Failure to maintain a Certified Worksite Traffic Control Supervisor on the Work will be considered as non-performance under [Subsection 150.7.01](#).

The WTCS or alternate WTCS shall be available on a full-time basis to maintain traffic control devices with access to all personnel, materials, and equipment necessary to respond effectively to an emergency situation within forty-five (45) minutes of notification of the emergency.

The WTCS shall perform inspections, at a minimum once a month, to ensure that traffic control is maintained. For all interstate and limited access highways, the WTCS shall perform, as a minimum, weekly traffic control inspections. The inspections will start with the installation of the advance warning signs and will stop when a maintenance acceptance is issued or when the corrective list is completed.

An inspection shall include both daytime and nighttime reviews. The inspection shall be reported to the Engineer on a Traffic Control Inspection Report, (TC-1). Unless modified by the special conditions or by the Engineer, routine deficiencies shall be corrected within a twenty-four (24) hour period. Failure to comply with these provisions shall be grounds for dismissal from the duties of WTCS and/or removal of the WTCS from the project. Failure of the WTCS to execute their duties shall be considered as non-performance under [Subsection 150.7.01](#).

The Engineer will periodically review the Work for compliance with the requirements of the TTC plan.

On projects where traffic control duties will not require full time WTCS supervision, the Engineer may allow the Contractor's Project superintendent, foreman, subcontractor, or other designated personnel to serve as the WTCS as long as satisfactory results are obtained. Nevertheless, the individual shall meet the requirements and perform the duties of a WTCS.

**TRAFFIC CONTROL INSPECTION REPORT (TC-1)**

Project No.: \_\_\_\_\_ County: \_\_\_\_\_

Contractor: \_\_\_\_\_ Date: \_\_\_\_\_ Daytime: \_\_\_\_\_

Nighttime: \_\_\_\_\_

**PURPOSE:** To provide adequate warning, delineation, and channelization to assist in guiding road users in advance of and through the work zone by utilizing proper pavement markings, signs, and other MUTCD compliant devices.

**RESPONSIBILITY:** The Worksite Traffic Control Supervisor (WTCS) has the duty of ensuring that all traffic control devices are installed and maintained according to the requirements of the Traffic Control Plan.

**DEFICIENCIES:** Items noted below require corrective measures be performed within the next \_\_\_\_\_ hours/days.

<u>LOCATION</u>	<u>DESCRIPTION</u>	<u>ACTION REQUIRED</u>

(use additional sheets if needed)

Signature: \_\_\_\_\_ WTCS or DOT performing inspection

DOT inspection presented to WTCS Date: \_\_\_\_\_ Time: \_\_\_\_\_

**TO BE COMPLETED BY THE WTCS**

The attached deficiencies were corrected by Date: \_\_\_\_\_ Time: \_\_\_\_\_

Signature \_\_\_\_\_ Return TC-1 to DOT inspector.

The WTCS certifies that all traffic control devices in use on the project are MASH/NCHRP 350 crashworthy compliant.

## Traffic Control Checklist

Satisfactory Unsatisfactory Non-applicable

### Signs

S

U

N

- Are the signs correctly installed?
- Signs are in place according to TTC Plans. Signs are plumb and level. Signs are at the proper height.
- Are the signs visible and readable to the public both daytime and nighttime?
- Is retroreflectivity good?
- Are signs not in use including PCMS properly stored?

### TTC Devices

S

U

N

- Are they MASH/NHCRP 350 approved? Do they meet MUTCD and Special Provision 150 requirements?
- Are they installed according to manufacture recommendation?
- Are they in acceptable/marginal condition? Are they stable? Is the retroreflectivity good?

### Clear Zone

S

U

N

- Are all material and equipment stored beyond the clear zone?
- If stored in clear zone, are they protected by positive barrier?
- Are drop-offs marked and healed according to Special Provision 150?

### Positive Barriers

S

U

N

- Are the barriers in acceptable/marginal condition and FHWA approved?
- Are the barrier reflectors proper and in good condition?
- Do the barriers extend to the proper advancement length? Are the tapers according to GA Standards?

### Attenuators and Guardrails

S

U

N

- Are the proper attenuator assemblies in use?
- Gating - Is the recovery area free of debris and provide the necessary recovery area?
- Is the assembly in accordance with manufacture's recommendation?
- Are the guardrails properly anchored and/or attached to the barrier?
- Are shoes and transition sections in accordance with Standards?

### Pavement Markings

S

U

N

- Are the pavement markings visible and legible?
- Can they be seen during the daytime and nighttime?
- Are there no conflicting pavement markings?
- Are the pavement markings including RPM installed and maintained according to section 150?

## B. Sequence of Operations

Any Sequence of Operations provided in this Contract in conjunction with any staging details which may be shown in the Plans, is a suggested sequence for performing the Work. It is intended as a general staging plan for the orderly execution of the Work while minimizing the impact on pedestrian facilities, mainline, cross-streets and side streets. The Contractor shall develop detailed staging and temporary traffic control plans for performing specific areas of the Work including but not limited to all traffic shifts, detours, bridge widenings, paces, or other activities that disrupt traffic or pedestrian flow. The Engineer may require detailed staging and TTC Plans for lane closures or disruption to pedestrian facilities. These Plans shall be submitted for approval at least two (2) weeks prior to the scheduled date of the activity. Activities that have not been approved at least seven (7) days prior to the scheduled date shall be rescheduled.

Where traffic is permitted through the work area under stage construction, the Contractor may choose to construct, at no additional expense to the Department, temporary on-site bypasses, or detours in order to expedite the Work. Plans for such temporary bypasses or detours shall be submitted to the Engineer for review and approval thirty (30) calendar days prior to the proposed construction. Such bypasses or detours shall be removed promptly when in the opinion of the Engineer; they are no longer necessary for the satisfactory progress of the Work. Bypasses and detours shall meet the minimum requirements of Subsection 150.3.01.E.

As an option to the Sequence of Operations in the Contract, the Contractor may submit an alternative Sequence of Operations for review and approval. Alternate Sequence of Operations for pedestrian facilities shall be in compliance with the MUTCD and ADA. Pedestrian needs identified in the preconstruction phase shall be included in the proposed alternate plan.

The Department will not pay, or in any way, reimburse the Contractor for claims arising from the Contractor's inability to perform the Work in accordance with the Sequence of Operations provided in the Contract or from an approved Contractor alternate.

The Contractor shall secure the Engineer's approval of the Contractor's proposed plan of operation, sequence of work and methods of providing for the safe passage of vehicular and pedestrian traffic before it is placed in operation. The proposed plan of operation shall supplement the approved traffic control plan. Any major changes to the approved TTC plan, proposed by the Contractor, shall be submitted to the Department for approval.

Some additional traffic control details will be required prior to any major shifts or changes in traffic. The traffic control details shall include, but not be limited to, the following:

1. A detailed drawing showing traffic locations and lanes for each step of the change.
2. The location, size, and message of all signs required by the MUTCD, Plan, Special Provisions, and other signs as required to fit conditions. Any portable changeable message signs used shall be included in the details.
3. The method to be used in, and the limits of, the obliteration of conflicting lines and markings.
4. Type, location, and extent of new lines and markings.
5. Horizontal and vertical alignment and superelevation rates for detours, including cross-section and profile grades along each edge of existing pavement.
6. Drainage details for temporary and permanent alignments.
7. Location, length, and/or spacing of channelization and protective devices (temporary barrier, guardrail, barricades, etc.)
8. Starting time, duration, and date of planned change.
9. For each traffic shift, a paving plan, erection plan, or work site plan, as appropriate, detailing workforce, materials, and equipment necessary to accomplish the proposed Work. This will be the minimum resource allocation required in order to start the Work.

The above details shall be submitted to the Engineer for approval at least fourteen (14) days prior to the anticipated traffic shift. Submission should be made electronically in a portable document format (pdf). The Contractor shall have traffic control details for a traffic shift which has been approved by the Engineer prior to commencement of the physical shift. All preparatory work relative to the traffic shift, which does not interfere with traffic, shall be accomplished prior to the designated starting time. The Engineer and the Contractor's representative will verify that all conditions have been met prior to the Contractor obtaining materials for the actual traffic shift.

### **C. Pedestrian Considerations**

All existing pedestrian facilities, including access to transit stops, shall be maintained. Where pedestrian routes are closed, alternate routes shall be provided. Closures of existing, interim, and final pedestrian facilities shall have the prior written approval of the Engineer. When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, the temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility. Pedestrian facilities are considered improvements and provisions made to accommodate or encourage walking. Whenever a sidewalk is to be closed, the Engineer shall notify the maintaining agency two (2) weeks prior to the closure. Prior to closure, detectable barriers (that are detectable by a person with a visual disability traveling with the aid of a long cane), as described by the MUTCD, shall be placed across the full width of the closed sidewalk. Barriers and channelizing devices used along a temporary pedestrian route shall be in compliance with the MUTCD.

Temporary Traffic Control devices used to delineate a Temporary Traffic Control Zone Pedestrian Walkway shall be in compliance with Subsection 150.3.01.A. Appropriate signs as described in the MUTCD shall be maintained to allow safe passage of pedestrian traffic or to advise pedestrians of walkway closures (Refer to MUTCD Figures TA-28 and TA-29 for guidance). Advance closure signing should be placed at intersections rather than midblock locations so that pedestrians are not confronted with midblock work sites that will induce them to attempt skirting the work site or making a midblock crossing. Temporary Traffic Control devices and construction material shall not intrude into the usable width of the pedestrian walkway. Signs and other devices shall be placed such that they do not narrow or restrict any pedestrian passage to less than forty-eight inches ( $\geq 48$ ").

#### **1. Pedestrian Signage**

A pedestrian walkway shall not be severed or relocated for non-construction activities, such as parking for construction vehicles and equipment. Movement by construction vehicles and equipment across designated pedestrian walkways should be minimized. When necessary, construction activities shall be controlled by flaggers. Pedestrian walkways shall be kept free of mud, loose gravel, or other debris.

When temporary covered walkways are used, they shall be lighted during nighttime hours. When temporary traffic barrier is used to separate pedestrian and vehicular traffic, the temporary barrier shall meet Manual for Assessing Safety Hardware (MASH) Test Level 3 and/or NCHRP-350 Test Level Three. The barrier ends shall be protected in accordance with Georgia Standard 4960. Curbing shall not be used as a substitute for temporary traffic barriers when temporary traffic barriers are required. Tape, rope, or plastic chain strung between temporary traffic control devices are not considered as detectable and shall not be used as a control for pedestrian movements.

The WTCS shall inspect the activity area daily to ensure that effective pedestrian TTC is being maintained. The inspection of TTC for pedestrian traffic shall be included as part of the TC-1 report.

#### **2. Temporary Pedestrian Facilities**

Temporary pedestrian facilities shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility. The geometry, alignment and construction of the facility should meet the applicable requirements of the "Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities (ADAAG)".

##### **a. Temporary Walkways with Detectable Edging**

A smooth, continuous hard surface (firm, stable and slip resistant) shall be provided throughout the entire length of the temporary pedestrian facility. Compacted soils, sand, crushed stone, or asphaltic pavement millings shall not be used as a surface course for walkways.

Temporary walkways shall include detectable edging as defined in the MUTCD. When temporary traffic barrier is included as a pay item in the Contract and where locations identified on the Plans for positive protection will also allow them to serve as pedestrian detectable edging, payment will be made for the temporary traffic barrier in accordance with [Section 620](#). No payment will be made for temporary walkways with Detectable Edging where existing pavements or existing edging (that meets the requirements of MUTCD) are utilized as temporary walkways. Payment for temporary detectable edging, including approved barriers and channelizing devices, installed on existing pavements shall be included in Traffic Control-Lump Sum.

Regardless of the materials used, temporary walkways shall be constructed with sufficient thickness and durability to withstand the intended use for the duration of the construction project. If concrete or asphalt is used as the surface course for the walkway, it shall be a minimum of one and one-half inches ( $\geq 1\text{-}1/2''$ ) thick. Temporary walkways constructed across unimproved streets and drives shall be a minimum thickness of four inches ( $\geq 4''$ ) for concrete and three inches ( $\geq 3''$ ) for asphalt. Joints formed in concrete sidewalks shall be in accordance with [Section 441](#). Concrete surfaces shall have a broom finish.

If plywood is used as a walkway, it must be a minimum of three quarters of an inch ( $\geq 3/4''$ ) thick, pressure treated and supported with pressure treated longitudinal joists spaced a maximum of sixteen inches ( $\leq 16''$ ) on center. The plywood shall be secured to the joist with galvanized nails or galvanized deck screws. Nails and screws shall be countersunk to prevent snagging or tripping the pedestrians. A slip resistant friction course shall be applied to any plywood surface that is used as a walkway. Any slip resistant material used shall have the prior written approval of the Engineer.

The Contractor may propose alternate types of Temporary Walkways provided that the Contractor can document that the proposed walkway meets the requirements of the "Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities (ADAAG)". Alternate types of Temporary Walkways shall have the prior written approval of the Engineer.

Temporary walkways shall be constructed and maintained so there are no abrupt changes in grade or terrain that could cause a tripping hazard or could be a barrier to wheelchair use. The Contractor shall construct and maintain the walkway to ensure that joints in the walkway have a vertical difference in elevation of no more than one quarter ( $\leq 1/4''$ ) of an inch and that the horizontal joints have gaps no greater than one half ( $\leq 1/2''$ ) of an inch. The grade of the temporary walkway should parallel the grade of the existing walkway or roadway and the cross slope should be no greater than two percent ( $\leq 2\%$ ). A width of sixty inches (60"), if practical, should be provided throughout the entire length of any temporary walkway. The temporary walkway shall be a minimum width of forty eight (48") inches. When it is not possible to maintain a minimum width of sixty (60") inches throughout the entire length of temporary walkway, a sixty (60") inch by sixty (60") inch passing space should be provided at least every two hundred feet (200 ft.), to allow individuals in wheelchairs to pass.

Temporary walkways shall be constructed on firm subgrade. Compact the subgrade according to [Section 209](#). Furnish and install any needed temporary pipes prior to constructing any walkway to ensure positive drainage away from or beneath the temporary walkway. Once the walkway is no longer required, remove any temporary materials, and restore the area to the original conditions or as shown in the Plans.

**b. Temporary Curb Cut Wheelchair Ramps**

Temporary curb cut wheelchair ramps shall be constructed in accordance with [Section 441](#) and [Construction Detail A-3 Curb Cut \(Wheelchair\) Ramps Concrete Sidewalk Details](#). Ramps shall also include a detectable warning surface in accordance with [Construction Detail A-4 Detectable Warning Surface Truncated Dome Size, Spacing and Alignment Requirements](#). Other types of material for the construction of the temporary curb cut wheelchair ramps, including the detectable warning surface, may be provided the Contractor can provide documentation that the material to be used meets the requirements

of the “Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities (ADAAG)”. When a wheelchair ramp is no longer required, remove the temporary materials, and restore the area to existing conditions or as shown in the Plans. For the items required to restore the area to original conditions or as shown in the Plans, measures for payment shall be covered by Contract pay items. If pay items are not included in the Contract, then payment for these items shall be included in Traffic Control-Lump Sum.

**c. Temporary Audible Information Device**

Temporary audible information devices, when shown in the Plans, shall be installed in compliance with the “Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities (ADAAG)”. The devices shall be installed in accordance with the manufacturer’s recommendations. Prior to installation, the Contractor shall provide the Engineer with a set of manufacturer’s drawings detailing the proper installation procedures for each device. When no longer required, the devices shall remain the property of the Contractor.

## **150.2 Materials and Traffic Control Devices**

### **150.2.01 Traffic Control Devices**

#### **A. NCHRP 350 and MASH**

All devices shall be certified in accordance with the Manual for Assessing Safety Hardware (MASH) Test Level 3 and/or the National Cooperative Highway Research Program (NCHRP) 350 Test Level 3 as applicable unless modified by this Special Provision. In addition, temporary work zone devices, including portable barriers, manufactured after December 31, 2019, must have been successfully tested under 2016 edition of MASH requirements. Such devices manufactured on or before this date, and successfully tested under either NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives.

#### **B. Approval**

All traffic control devices with applicable Qualified Products List (QPL) categories shall come from the appropriate QPL list. Products not on the QPL may be used with an approval letter from the Georgia Department of Transportation Office of Materials and Testing. If there is no applicable QPL, the Contractor shall provide proof of MASH/NCHRP 350 certification. The proof may be a letter or written statement from the manufacturer that the product is MASH/NCHRP 350 approved. Decal certifications are not proof of certification and are not required.

#### **C. Quality Guidelines for All Temporary Traffic Devices**

All traffic control devices found to be unacceptable in accordance with the current ATSSA, “Quality Guidelines for Temporary Traffic Devices and Features” regardless of total numbers shall be replaced within twenty-four (24) hours unless stated otherwise in the Specifications, in the Contract, or as directed by the Engineer.

### **150.2.02 Retroreflectivity Requirements**

#### **A. Signs**

Reflective sheeting shall meet the requirements of Section 913 and QPL-29

All construction warning signs (black on fluorescent orange) shall meet the minimum reflectivity and color requirements of ASTM D4956 Type XI regardless of the mounting height. All other signs reflectorization shall be in accordance with the Plans, Contract, and “GDOT Signing and Marking Design Guidelines”.

#### **B. Channelization Devices**

Reflective sheeting shall meet the requirements of Section 913 and QPL-29

All channelization devices (white/ fluorescent orange and white/red) shall meet the minimum retroreflectivity requirements of ASTM D4956 Type IV or Type VI.

### 150.2.03 Arrow Panels

Arrow panels shall meet the requirements for [MUTCD \(6L.06\)](#) and QPL-79.

Portable sequential arrow, sequential chevron, or flashing arrow panels shall be a minimum size of forty-eight inches (48") high by ninety-six inches (96") wide with not less than fifteen (15) lamps used for the arrow. The arrow shall occupy virtually the entire size of the arrow panel and shall have a minimum legibility distance of one (1) mile. The minimum legibility distance is the distance at which the arrow panel can be comprehended by an observer on a sunny day, or clear night. Arrow panels shall be equipped with automatic dimming features for use during hours of darkness. The arrow panels shall also meet the requirements for a Type C panel as shown in the MUTCD (6L.06). The sequential or flashing arrow panels shall not be used for lane closure on two-lane, two-way highways when traffic is restricted to one-lane operations in which case, appropriate signing, flaggers and when required, pilot vehicles will be deemed sufficient.

The arrow panels shall be placed on the shoulder at or near the point where the lane closing transition begins. The panels shall be mounted on a vehicle, trailer, or other suitable support. Vehicle mounted panels shall be provided with remote controls. Minimum mounting height shall be seven feet (7') above the roadway to the bottom of the panel, except on vehicle mounted panels which should be as high as practical.

For emergency situations, arrow display panels that meet the MUTCD requirements for Type A or Type B panels may be used until Type C panels can be located and placed at the site. The use of Type A and Type B panels shall be held to the minimum length of time possible before having the Type C panel(s) in operation. The Engineer shall determine when conditions and circumstances are considered to be emergencies. The Contractor shall notify the Engineer, in writing, when any non-specification arrow display panel(s) is being used in the Work.

### 150.2.04 Channelization Devices

#### A. General

Channelization shall clearly delineate the travel way through the work zone and alert drivers and pedestrians to conditions created by work activities in or near the travel way. Channelization shall be in accordance with the Plans, Specifications, MUTCD, QPL-34, and the following requirements.

#### B. Drums

##### 1. Design

Drums shall meet the minimum requirement of the [MUTCD \(6K.06\)](#). Drums shall have six inch (6") wide stripes – white/fluorescent orange.

##### 2. Application

Drums shall be used as the required channelizing device to delineate the full length of a lane closure, shift, or encroachment, except as modified by this Subsection.

##### 3. Longitudinal Channelization

Drums shall be spaced as listed below for various roadside work conditions except as modified by [Subsection 150.3.11](#). Spacing shall be used for situations meeting any of the conditions listed as follows:

###### a. FORTY FOOT (40') SPACING MAXIMUM

- For difference in elevation exceeding two inches (> 2").
- For heeled sections no steeper than 4:1 as shown in [Subsection 150.3.11](#), Detail 150-H.

## b. EIGHTY FOOT (80') SPACING MAXIMUM

- For difference in elevation of two inches ( $\leq 2''$ ) or less.
- Flush areas where equipment or workers are within ten feet ( $\leq 10'$ ) of the travel lane.

## c. 200 FOOT SPACING MAXIMUM: Where equipment or workers are more than ten feet ( $> 10'$ ) from travel lane. Lateral offset clearance to be four feet (4') from the travel lane.

- For paved areas, eight feet ( $> 8'$ ) or greater in width that are paved flush with a standard width travel lane.
- For disturbed shoulder areas not completed to typical section that are flush to the travel lane and considered a usable shoulder.

## 4. Removal of Drums

Drums may be removed after shoulders are completed to typical section and grassed. Guardrail and other safety devices shall be installed and appropriate signs advising of conditions such as soft or low shoulder shall be posted before the drums are removed.

## C. Vertical Panels

### 1. Design

All vertical panels shall meet the minimum requirements of the [MUTCD \(6K.05\)](#). All vertical panels shall have a minimum of 270 square inches of retroreflective area facing the traffic and be a minimum of thirty-six inches ( $\geq 36''$ ) high. The vertical panels shall be in addition a minimum eight inches ( $\geq 8''$ ) wide with a stripe width of six inches (6") – white/fluorescent orange.

### 2. Application

Vertical panels with retroreflectivity less than Type VI can only be used when traffic drums reduce the travel lane to less than ten feet ( $\leq 10'$ ); vertical panels shall be used to restore the travel lane to ten feet ( $\geq 10'$ ) or greater. No other application of vertical panels with retroreflectivity less than type VI will be permitted.

Vertical panels with a minimum type VI retroreflectivity and six (6") inch stripe may be used for longitudinal channelization in the activity zone where work takes place for short-term stationary lane closures and intermediate-term stationary lane closures. They can be used for lane closures lasting three (3) days and with Engineer approval up to seven (7) days. They shall not be used in the transition zone including the tapers and the tangent lengths between tapers.

## D. Cones

### 1. Design:

All cones shall be a minimum of twenty-eight inches ( $\geq 28''$ ) in height regardless of application and shall meet the requirements of the [MUTCD \(6K-1\)](#).

Retroreflectivity may be deleted from all cones.

### 2. Application

On interstates, cones shall be prohibited. On all other routes, cones may only be used for longitudinal channelization in the activity zone where work takes place for short-term stationary lane closures. They shall not be used in the transition zone including the tapers and the tangent lengths between tapers. The use of cones for nighttime work will not be permitted. Cones shall not be stored or allowed to be visible on the worksite during nighttime.

Cones may be used for daytime flagging operations including tapers at flagging stations.

## E. Barricades

### 1. Design

Type 3 barricades shall meet the minimum requirements of the [MUTCD \(6K.07\)](#). The Contractor has the option of choosing Type 3 barricades from the [QPL-34](#) or the Contractor may utilize generic barricades that are approved by the [Federal Highway Administration \(FHWA\)](#). When barricades have been specifically crash tested with signs attached, the Contractor has the responsibility to attach the signs as per the manufacturer's recommendations to ensure crashworthiness. If the barricades were not tested with the signs, crashworthy compliance may require that rigid signs be mounted separate from the Type 3 barricade.

The use of Type 1 and Type 2 barricades will not be permitted.

### 2. Application

Type 3 barricades shall be placed as required by the Plans, the Standards, and as directed by the Engineer.

When a barricade is placed so that it is subject to side impact from a vehicle, a drum shall be placed at the side of the barricade to add target value to the barricade.

## F. Warning Lights

### 1. Design

All warning lights shall meet the requirements of the [MUTCD \(6L.07\)](#).

### 2. Application:

- a. Type A low-intensity flashing lights shall be used as shown in the Plans, the Standards, and as directed by the Engineer.
- b. Type C Steady-Burn lights shall be used as shown in the Plans, the Standards, and as directed by the Engineer.

### 150.2.05 Flashing Beacon

The flashing beacon assembly, when specified, shall be used in conjunction with construction warning signs, regulatory, or guide signs to inform traffic of special road conditions which require additional driver attention. The flashing beacon assembly shall be installed in accordance with the requirements of [Section 647](#).

### 150.2.06 Guardrail

Guardrail shall comply with [Section 641](#) Guardrail and the guardrail standards.

When the removal and installation of guardrail is required, as a part of the Work, the following time restrictions shall apply unless modified by the special conditions:

From the time that the existing guardrail or temporary positive barrier protection is removed, the Contractor has fourteen (14) days to install the new guardrail and anchors. During the interim, the location without guardrail shall be protected with drums spaced at a maximum spacing of twenty feet (20'). The guardrail blunt end is to be treated as a fixed object and shall be protected. The maximum length of rail that can be removed at any time without being replaced with positive barrier protection is a total of 2000 linear feet of existing rail or the total length of one run of existing rail, whichever is less. Based on existing field conditions, the Engineer may review the Work and require that the guardrail be installed earlier than the maximum time allowed.

The Contractor shall install new guardrail, such that traffic exposure to fixed objects is minimized. Within the same workday, temporary attenuators, as defined in [Subsection 150.2.10](#), should be installed on the approach to fixed objects that can't be protected with guardrail. Truck mounted attenuators may be used to shield exposed fixed objects for periods not to exceed fourteen (14) days. No separate payment will be made for truck mounted attenuators, attenuators, or other methods unless provided for in the Contract.

When the roadway is open to traffic, guardrail panels shall be lapped to comply with the directional flow of traffic. Should the staging of the Work require that the lap of the guardrail be changed, this Work shall be completed before the roadway is opened to traffic. The Work to change the lap of any guardrail shall be included in Traffic Control-Lump Sum.

The laps on anchors shall be in accordance with the manufacturer's recommendations and installation instructions. As a result, a trailing anchor may be lapped opposing the flow of traffic.

Failure to comply with the above time and quantity restrictions shall be considered as non-compliance under [Subsection 150.7.01](#).

## 150.2.07 Interim Signs

### A. Sign Blanks and Panels

All TTC sign blanks and panels should conform to [Section 912](#) of the Specifications. Alternative sign blank materials (composites, polycarbonates, fiberglass reinforced plastics, recycled plastics, etc.) shall have a letter of approval from the Office of Materials and Testing for use as interim construction signs before these materials are allowed to be incorporated into the Work, unless these rigid sign blanks are currently approved as a crashworthy sign blank material under [QPL- 34](#).

Unless specified elsewhere in the Contract, Specifications, Plans, and/or directed by the Engineer, sign sizes are according to the following:

1. All construction signs sizes shall follow the dimensions provided in the MUTCD Table 6G-1, GH-1, and 6I-1 "Temporary Traffic Control Zone Sign and Plaque Sizes" under the column for "Freeway or Expressway".
2. For all other signs used just for staging, the sign sizes shall follow the dimensions provided in the MUTCD Table 2B-1 "Regulatory Sign and Plaque Sizes" for the largest size.
3. Permanent signs used for staging shall be according to Plans.

Plywood blanks or panels will not be permitted.

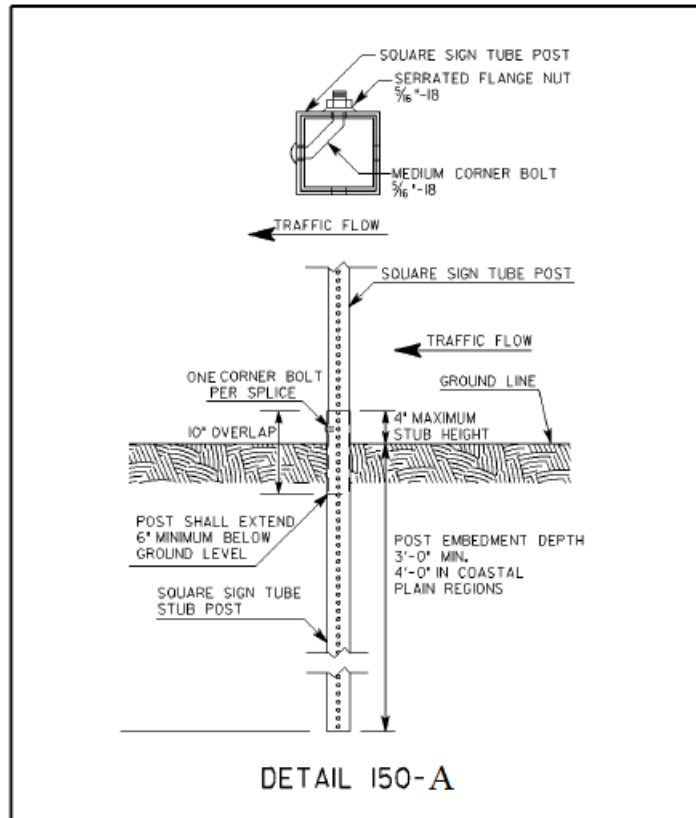
The use of flexible signs will not be permitted.

For utility work not included in the Contract, the utility Contractor may use flexible signs within the project limits.

### B. Posts

Permanent mounting height to the bottom of sign shall be seven (7) feet to eight (8) feet measured vertically from the bottom of the sign to the elevation of the near edge of the pavement or from the walkway. Posts for all interim signs should be square tubular post meeting the requirements of Section 911, QPL-35, and Construction Detail T-3A (Type 7, 8, and 9 Square Tube Post Installation Detail). Ground mounted sign(s) that are greater than 48" wide shall be mounted on two posts. For barrier mounted sign, single post mount is allowed. The post(s) shall not extend beyond the top of the sign(s). The sign(s) shall be substantially plumbed and leveled.

Unprotected interim posts shall be spliced as shown in Detail 150-A, unless full length unspliced posts are used. Unprotected post splices will not be permitted any higher than four inches above the ground line to lessen the possibility of affecting the undercarriage of a vehicle. Installation of posts may require establishment of openings in existing pavements, islands, shoulders, etc.



## 150.2.08 Pavement Markings

All temporary traffic striping shall conform to the applicable requirements of Section 652, Section 653, Section 657, Section 658, Section 659, and QPL-46.

### A. All Traffic Striping for 45 Days or Less ( $\leq 45$ Days)

All traffic striping that will be in place for 45 days or less shall be 4 inches or greater in width.

### B. All Temporary Striping Beyond 45 days ( $>45$ Days)

All traffic striping applied on intermediate surfaces shall be a minimum 5 inches in width or as shown on the Plans. On final surfaces when temporary striping will be overlaid or eradicated, the temporary striping shall be a minimum 5 inches in width.

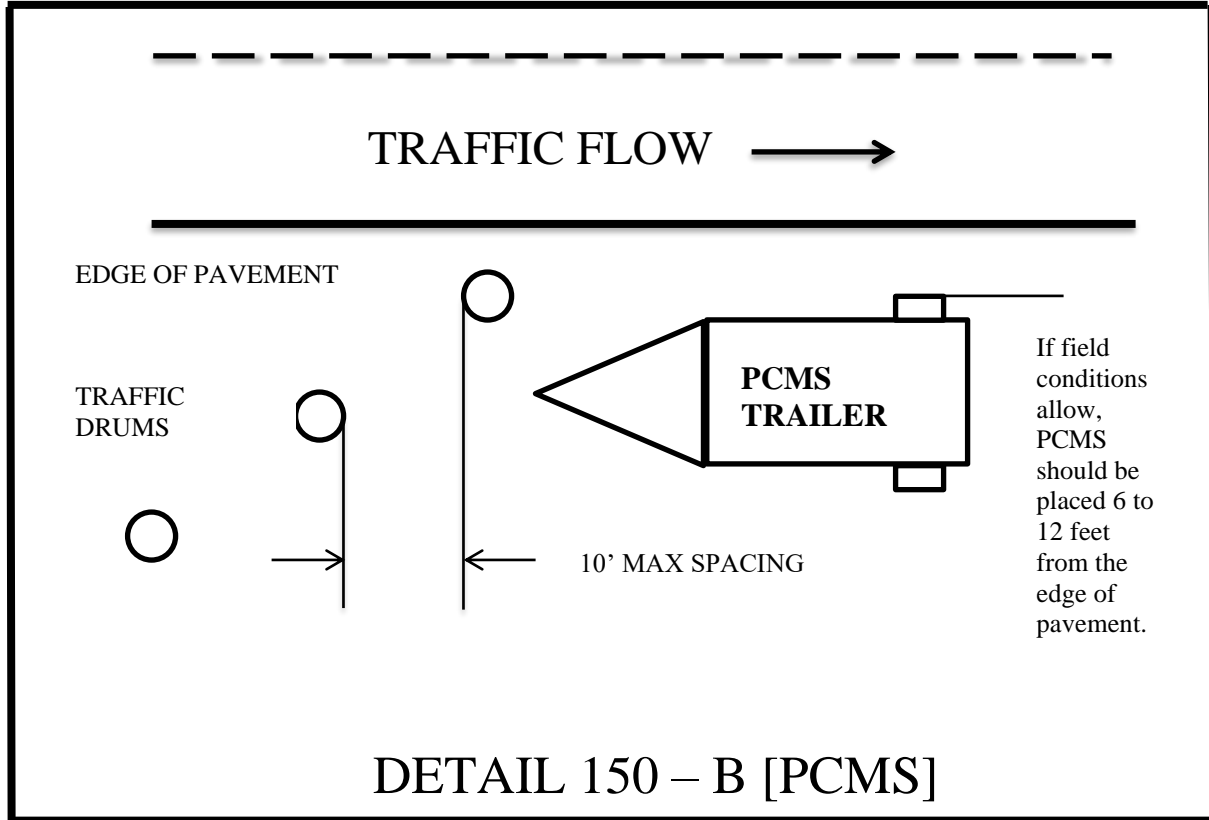
### C. All Temporary Traffic Striping on Final Surface

All temporary traffic striping applied to final surfaces which will not be overlaid or grinded may be 4 inches in width or as shown on the Plans.

## 150.2.09 Portable Changeable Message Signs

When specified, a portable changeable message sign (PCMS) shall meet the minimum requirements of Section 632, MUTCD (6L.05) and be on QPL-82. The maximum amount of messages allowed to be flashed on one PCMS is two phases (flashes). The language and the timing of the messages shall comply with the MUTCD and Section 632. When used as an advanced device, the PCMS should typically be placed ahead of the construction activities. If the PCMS is used as a substitute for another device, then the requirements for the other device apply.

Any PCMS in use, which is not protected by positive barrier protection, shall be delineated by a minimum of three drums that meet the requirement of Subsection 150.2.04.B. The drum spacing shall not exceed a maximum of ten (10') feet as shown in Detail 150-B. When the PCMS is within twenty (20') feet of the opposing traffic flow, the trailing end of the PCMS shall be delineated with a minimum of three drums spaced in the same manner as the approach side of the PCMS.



When not in use, the PCMS shall be removed from the roadway, unless protected by positive barrier protection. If the PCMS is protected by positive barrier protection, the sign panel shall be turned away from traffic when not in use.

### 150.2.10 Portable Impact Attenuators

This work consists of the furnishing (including spare parts), installation, maintenance, relocation, reuse as required, and removal of Portable Impact Attenuator Units/Arrays.

Portable Impact Attenuator Unit/Arrays installation shall conform to the requirements of Section 648, Manufacturer's recommendations and "(Georgia Standard 4960 "Temporary Barrier (End Treatment Options)") and shall be installed at locations designated by the Engineer, and/or as shown on the Plans. When gating attenuators are used, the Contractor shall maintain the appropriate recovery area in accordance with the manufacturers' recommendations.

Generic sand/water loaded modules are prohibited. Manufacturers' sand/water loaded modules with specific arrays that have been NCHRP 350/MASH approved can be used in appropriate locations.

The test level of protection provided shall equal or exceed the speed limit. Test level 3 shall be used for forty-five (45) mph or above.

### 150.2.11 Portable Temporary Traffic Control Signals

The use of Portable Temporary Traffic Control Signals shall meet the following minimum requirements:

Only two-lane, two-way roadways will be allowed to utilize Portable Temporary Traffic Control Signals.

All portable traffic control signals shall meet the physical display and operational requirements of conventional traffic signals described in the MUTCD.

Each signal face shall have at least three lenses. The lenses shall be red, yellow, and green in color and shall give a circular type of indication. All lenses shall be twelve (12") inches nominal in diameter. A minimum of two signal faces shall face each direction of traffic. A minimum of one signal head shall be suspended over the roadway travel lane in a manner that will allow the bottom of the signal head housing to be not less than seventeen (17') feet above and not more than nineteen (19') feet above the pavement grade at the center of the travel lane. The second signal head may be located over the travel lane with the same height requirements or the second signal head may be located on the shoulder. When the signal head is located on the shoulder, the bottom of the signal head housing shall be at least eight (8') feet but not more than (15') feet above the pavement grade at the center of highway.

Advance warning signage and appropriate pavement markings shall be installed as part of the temporary signal operation.

The signals shall be operated in a manner consistent with traffic requirements. The signals may be operated in timed-mode or in a vehicle-actuated mode. The signals shall be interconnected in a manner to ensure that conflicting movements cannot occur. To ensure that the appropriate operating pattern, including timing is displayed to the traveling public, regular inspections, including the use of accurate timing devices shall be made by the WTCS. If, at any time, any part of the system fails to operate within these requirements then the use of the signal shall be suspended, and the appropriate flagging operation shall begin immediately.

The (WTCS) shall continuously monitor the portable traffic control signal to ensure compliance with the requirements for maintenance under the MUTCD. The signal shall be maintained in a manner consistent with the intention of the MUTCD, with emphasis on cleaning of the optical system. Timing changes shall be made only by the WTCS. The WTCS shall keep a written record of all timing changes.

The portable temporary traffic signal shall have two power sources and shall be capable of running for seven calendar days continuously.

The Contractor shall have an alternate temporary traffic control plan in the event of failure of the signal.

### **150.2.12 Raised Pavement Markers**

Raised pavement markers (RPMs) shall meet the requirements of [Section 654](#) and QPL-76 .

### **150.2.13 Rumble Strips**

Rumble strips incorporated into the Work shall meet the requirements of [Section 429](#) and the MUTCD. Existing rumble strips that are positioned in the traveled way to warn traffic of a stop condition shall be reinstalled prior to opening to traffic. Based on the following requirements:

Intermediate surfaces that will be in use for more than forty-five (45) calendar days shall have rumble strips reinstalled on the traveled way in the area of a stop condition. Non-refundable deductions in accordance with Subsection 150.7.01 will be assessed for any intermediate surface in place for greater than 45 days without rumble strips.

Rumble strips shall be installed on the final surface within fourteen (14) calendar days of the placement of the final surface in the area of the stop condition. Failure to install within fourteen (14) calendar days will result in assessment of non-refundable deductions in accordance with Subsection 150.7.01.

Prior to the removal of any rumble strips located in the travel lane, stop ahead (W3-1) warning signs shall be double indicated ahead of the stop condition. These warning signs shall be a minimum of 48 inches by 48 inches. These warning signs shall remain in place until the rumble strips have been reinstalled on the traveled way. Any existing warning

signs for the stop ahead condition shall be removed or covered while the 48" X 48" (W3-1) signs are in place. When the rumble strips have been reinstalled, these warning signs should be promptly removed, and any existing signage placed back in service.

## 150.2.14 Temporary Barriers

### A. Design:

Temporary barriers shall meet the requirements of [Sections 620](#). The lengths of advancement should be in accordance with [Georgia Standard 4000W "Lengths of Advancement, Clear Zone Distances, and Fill Height Embankment"](#). The approach end of the taper should have 10:1 or flatter ground slope. Temporary barriers shall not be used as a channelization device. Their use is in accordance with [MUTCD \(6K.09\)](#).

### B. Application:

Temporary barriers shall be placed as required by the Plans, Standards, and as directed by the Engineer. When Temporary barrier is located twenty feet ( $\leq 20'$ ) or less from a travel lane, yellow reflectors shall be fixed to the top of the barrier at intervals not greater than forty feet ( $\leq 40'$ ) in the longitudinal section and twenty feet (20') in the taper section and shall be mounted approximately two inches (2") above the barrier. If both lanes of a two-lane two-way roadway are within twenty feet ( $\leq 20'$ ) or less of the barrier then the reflectors shall be installed for both directions of traffic.

The reflectors shall be one hundred (100) square inches (ASTM Type VII or VIII/ Type XI) reflective sheeting mounted on flat-sheet blanks. The reflectors shall be mounted approximately two inches above the top of the barrier. The reflectors shall be attached to the barrier with adhesive or by a drilled-in anchor type device. The reflectors shall not be attached to a post or board that is placed between the gaps in the barrier sections.

Approach end of Temporary barrier shall be protected according to [Georgia Standard 4960 "Temporary Barrier \(End Treatment Options\)"](#) or by a portable impact attenuator.

On interstates or other controlled access highways where lane shifts or crossovers cause opposing traffic to be separated by less than forty feet ( $<40'$ ), portable barrier should be used as a separator.

## 150.2.15 Temporary Guardrail Anchorage- Type 12

This work consists of the furnishing, installation, maintenance, and removal of Temporary Guardrail Anchorage- Type 12 used for Portable Barrier or temporary guardrail end treatment. Materials used in the Temporary Guardrail Anchorage- Type 12 shall meet the requirements of [Section 641](#) of the Specifications and current Georgia Standards and may be new or used. Materials salvaged from the Project, which meet the requirements of Standards, may be utilized if available. The use of any salvaged materials will require prior approval of the Engineer.

Installation of the Temporary Guardrail Anchorage- Type 12 shall conform to the requirements of the Plans, current Georgia Standards and [Section 641](#) of the Specifications. Installation shall also include sufficient additional guardrail and appurtenances to effect the transition and connection to Temporary Concrete Barrier as required by the details in [Georgia Standard 4960 "Temporary Barrier \(End Treatment Options\)"](#).

## 150.2.16 Temporary Traffic Signals

Temporary traffic signals shall meet the requirements of [Section 647](#) and the MUTCD.

## 150.3 Construction Requirements

### 150.3.01 General

## A. Implementation Requirements

No work shall be started on any project phase until the appropriate traffic control devices have been placed in accordance with the Project requirements. Changes to traffic flow shall not commence unless all labor, materials, and equipment necessary to make the changes are available on the Project.

When any shift or change is made to the location of traffic or to the flow patterns of traffic, including pedestrian traffic, the permanent safety features shall be installed and fully operational before making the change. If staging or site conditions prevent the installation of permanent features, then the equivalent interim devices shall be utilized. This work shall also include any necessary removal and reinstallation of guardrail panels to achieve the required panel lap to accommodate the appropriate shift and traffic flow including the final traffic flow configuration. The cost of performing this work shall be included in Traffic Control-Lump Sum.

Any section of the Work that is on a new location shall have all permanent safety features installed and fully operational before the Work is opened to traffic. Safety features shall include, but are not limited to the following items:

Guardrails including anchors and delineation with properly lapped panels

- 1) Cable Barrier
- 2) Impact attenuators
- 3) Traffic signals
- 4) Warning devices
- 5) Pavement markings including, but not limited to, words, symbols, stop bars, arrows, hatching and crosswalks
- 6) Roadway signs including regulatory, warning, and guide

Outdoor lighting shall be considered as a safety feature for welcome centers, rest areas, and weigh station projects. For typical roadway type projects, new street lighting is not considered a safety feature, unless specifically noted in the Plans or in the special conditions.

## B. Maintenance of Traffic Control Devices

Traffic control devices shall be in acceptable condition when first erected on the Project and shall be maintained in accordance with [Section 104](#) throughout the construction period. All unacceptable traffic control devices shall be replaced within twenty-four (24) hours. When not in use, all traffic control devices shall be removed, placed or covered so as not to be visible to traffic.

## C. Traffic Interruption Restrictions

The Department reserves the right to restrict construction operations when, in the opinion of the Engineer, the continuance of the Work would seriously hinder traffic flow, be needlessly disruptive or unnecessarily inconvenience the traveling public. The Contractor shall suspend and/or reschedule any work when the Engineer deems that conditions are unfavorable for continuing the Work.

Advanced notification requirements to the Contractor to suspend work will be according to the events and the time restrictions outlined below:

Incident management - No advanced notice required

Threatening/Inclement weather - twenty-four (24) hours

Holiday, sporting events, unfavorable conditions - Three (3) calendar days

If the Work is suspended, the Contractor may submit a request for additional Contract time as allowed under [Section 108](#). The Department will review the request and may grant additional Contract time as justified by the impact to the Contractor's schedule. Compensation for loss of productivity, rescheduling of crews, rental of equipment or

delays to the Contractor's schedule will not be considered for payment. Additional Contract time will be the only consideration granted to the Contractor.

#### **D. Work Zone Restrictions**

##### **1. Interstate**

The Contractor should not simultaneously perform work on both the inside shoulder and outside shoulder on either direction of traffic flow when the Work is within 12 feet of the travel-way. Shoulders can be alternated if areas are separated by at least one-half mile of distance.

##### **2. Non-Interstate Divided Highways**

The Contractor should not simultaneously perform work on both the inside shoulder and outside shoulder on either direction of traffic flow when the Work is within 12 feet of the travel-way. Shoulders can be alternated if areas are separated by at least one-half mile distance in rural areas or at least 500 feet of distance in urban areas.

##### **3. Non-Divided Highways**

a. The Contractor should not simultaneously perform work on opposite sides of the roadway when the Work is within 12 feet of the travel-way. Shoulders can be alternated if areas are separated by at least one-half mile of distance in rural areas or at least 500 feet of distance in urban areas.

b. On two-lane projects where full width sections of the existing subgrade, base or surfacing are to be removed, and new base, subgrade, or surfacing are to be constructed, the Contractor should maintain one-lane of traffic through the construction area by removing and replacing the undesirable material for half the width of the existing roadway at a time. Replacement should be made such that paving is completed to the level of the existing pavement in the adjacent lane by the end of the workday or before opening all the roadway to traffic.

#### **E. Work Zone Geometric Restrictions**

There should be no reduction in the total number of available traffic lanes including turning lanes that existed prior to construction, except as specifically allowed by the Contract and as approved by the Engineer.

Travel lane Clearances: All portions of the Work should maintain the following minimum requirements:

Horizontal: The combined dimensions of the paved shoulder and the roadway surface remaining outside the Work Zone should be no less than sixteen feet ( $\geq 16'$ ) in width at any location.

Vertical: The overhead clearance should not be reduced to less than fifteen feet ( $\geq 15'$ ) at any location.

The restrictions above apply to all shifts, lane closures, on-site detours and off-site detours whether shown in the Contract or proposed by the Contractor. It shall be the responsibility of the Contractor to verify that these minimum requirements have been met before proceeding with any phase of the Work. Two-lane, two-way roadways may have temporary horizontal restrictions of less than sixteen feet ( $\geq 16'$ ) during flagging operations. The minimum horizontal clearance should be restored before the flagging operation is removed.

#### **F. Clear Zone**

At the end of the workday, all equipment, materials, and TTC devices not in use should be moved out of the clear zone or behind positive protection. The clear zone is defined by Georgia Standard 4000W "Lengths of Advancement, Clear Zone Distances, Fill Height Embankment". For urban roadway with curb, the minimum set back is six (6') feet from the curb face. If stored behind positive protection, proper lengths of advancement should be maintained. If stored behind guardrail the items shall be a minimum five feet ( $\geq 5'$ ) from the face of the guardrail and not in the recovery zone of the anchor.

The WTCS shall monitor the Work to ensure that all the rocks, boulders, construction debris, stockpiled materials, equipment, tools, and other potential hazards are kept clear of the travel lane.

#### **G. Milled Surface Restrictions**

Unless modified by the special conditions, a milled surface on any asphaltic concrete surface shall not be allowed to remain open to traffic for a period of time that exceeds thirty (30) calendar days.

#### **H. Construction Vehicles**

The Contractor's vehicles shall travel in the direction of normal roadway traffic and shall not reverse direction except at intersections, interchanges, or approved temporary crossings. The Contractor may submit a plan requesting that construction traffic be allowed to travel in the opposite direction of normal traffic when it would be desirable to modify traffic patterns to accommodate specific construction activities.

Prior approval of the Engineer shall be obtained before any construction traffic is allowed to travel in a reverse direction. If the Contractor's submittal is approved, the construction traffic shall be separated from normal traffic by appropriate traffic control devices.

The parking of Contractor's and/or workers' personal vehicles within the work area or adjacent to traffic is prohibited. It shall be the responsibility of the WTCS to ensure that any vehicle present at the worksite is necessary for the completion of the Work.

#### **I. Environmental Impacts**

The Contractor shall ensure that dust, mud, and other debris from construction activities do not interfere with normal traffic operations or adjacent properties.

#### **J. Existing Street Lights**

Existing street lighting shall remain lighted as long as practical and until removal is approved by the Engineer.

#### **K. Nighttime Work Lighting**

Adequate temporary lighting shall be provided at all nighttime work sites where workers will be immediately adjacent to traffic.

#### **L. Removal/Reinstallation of Miscellaneous Items**

In the prosecution of the Work, if it becomes necessary to remove any existing signs, markers, guardrail, etc. not covered by specific pay item, they shall be removed, stored and reinstalled, when directed by the Engineer, to line and grade, and in the same condition as when removed.

### **150.3.02 Personnel – Worker Safety Apparel**

In accordance with MUTCD [\(6D.03\)](#) [\(6C.04\)](#) all workers, within the right-of-way who are exposed either to traffic or to work vehicles and construction equipment within the TTC zone, shall wear high-visibility safety apparel that meets the Performance Class 2 or better.

### **150.3.03 Signage - General**

#### **A. Signing Requirements of the Temporary Traffic Control (TTC) Plan**

When existing regulatory, warning or guide signs are required for proper traffic and pedestrian control, the Contractor shall maintain these signs in accordance with the TTC plan. The Contractor shall review the status of all existing signs, interim signs added to the Work, and permanent sign installations that are part of the work to eliminate any conflicting or non-applicable signage in the TTC Plan. The Contractor's review of all signs in the TTC Plan shall establish compliance with the requirements of the MUTCD and Section 150. Any conflicts shall be reported to the Engineer immediately and the WTCS shall take the necessary measures to eliminate the conflict.

The Contractor shall make every effort to eliminate the use of interim signs as soon as the Work allows for the installation of permanent signs.

All existing illuminated signs shall remain lighted and be maintained by the Contractor.

Existing street name signs shall be maintained at street intersections.

Refer to section 150.2.05.B. Sign Blanks and Panels for size and material requirements.

## **B. Conflicting or Non-Applicable Signs**

Any sign(s) or portions of a sign(s) that are not applicable to the TTC plan shall be covered so as not to be visible to traffic or shall be removed from the roadway when not in use. The WTCS shall review all traffic shifts and changes in the traffic patterns to ensure that all conflicting signs have been removed. The review shall confirm that the highest priority signs have been installed and that signs of lesser significance are not interfering with the visibility of the high priority signs. High priority signs include signs for road closures, shifts, detours, lane closures and curves. Any signs, such as speed zones and speed limits, passing zones, littering fines and litter pick up, that reference activities that are not applicable due to the presence of the Work shall be removed, stored and reinstalled when the Work is completed.

Failure to promptly eliminate conflicting or non-applicable signs shall be considered as non-performance under Subsection 150.7.01.

## **C. Removal of Existing Signs and Supports**

The Contractor shall not remove any existing signs and supports without prior approval from the Engineer. All existing signs and supports which are to be removed shall be stored and protected if this material will be required later in the Work as part of the TTC plan. If the signs are not to be utilized in the Work, then the signs will become the property of the Contractor unless otherwise specified in the Contract documents.

## **D. Interim Guide, Warning and Regulatory Signs**

Interim guide, warning, or regulatory signs required to direct traffic and pedestrians shall be furnished, installed, reused, and maintained by the Contractor in accordance with the MUTCD, the Plans, Special Provisions, Special Conditions, or as directed by the Engineer. These signs shall remain the property of the Contractor. When the signs are used for long-term stationary operations as defined MUTCD [\(6G.02\)](#), the bottom of all interim signs shall be mounted seven feet (7') to eight feet (8') above the level of the pavement edge or sidewalk. The signs offset should be six feet (6') to twelve feet (12') from the pavement edge or two feet ( $\geq 2'$ ) minimum for sidewalks according to MUTCD [\(6F-1\)](#) [\(6G-1, 6H-1, and 6I-1\)](#). Special Conditions under Subsection 150.6 may modify this requirement.

Portable signs may be used when the duration of the Work is less than three (3) days or as allowed by the special conditions in Subsection 150.6. Portable interim signs shall be mounted a minimum of one foot ( $\leq 1'$ ) above the level of the pavement edge for directional traffic of two (2) lanes or less and at seven feet (7') for directional traffic of three (3) or more lanes according to MUTCD [\(6F-2\)](#). Signs shall be mounted at the height recommended by the manufacturer's crashworthy testing requirements.

All sign blanks shall be rigid whether the sign is mounted as a portable sign, on a Type III barricade or as a permanent mount height sign. Utilities and their subcontractors working in the project limits, and not included in the project Contract, may use non-rigid signs.

## **E. Existing Special Guide Signs**

Existing special guide signs on the Project shall be maintained until conditions require a change in location or legend content. When change is required, existing signs shall be modified and continued in use if the required modification can be made within existing sign borders using design requirements (legend, letter size, spacing, border, etc.) equal to that of the existing signs, or of Subsection 150.3.E.2. Differing legend designs shall not be mixed in the same sign.

### **1. Special Guide Signs**

Special guide signs are those expressway or freeway guide signs that are designed with message content (legend) that applies to a particular roadway location. When an existing special guide sign is in conflict with work to be performed, the Contractor shall remove the conflicting sign and reset it in a new, non-conflicting location which has been approved by the Engineer.

### **2. Interim Special Guide Signs**

When it is not possible to utilize existing signs, either in place or relocated, the Contractor shall furnish, erect, maintain, modify, relocate, and remove new interim special guide signs in accordance with the Plans or as directed by the Engineer. Interim special guide signs that may be required in addition to, or a replacement for, existing expressway and freeway (interstate) signs shall be designed and fabricated in compliance with the minimum requirements for guide signing contained in Chapter 2E “Guide Signs – Freeway and Expressway” of the MUTCD. All interstate shields on these signs shall be 48 inches and 60 inches for two-numeral and three-numeral routes, respectively.

The road name of the exit or route shield shall be placed on the exit gore sign.

### **3. Interim Overhead Guide Sign Structures**

Interim overhead special guide sign structures are not required to be lighted unless specifically required by the Plans. If lighting is required, the sign shall be lighted as soon as erected and shall remain lighted, during the hours of darkness, until the interim sign is no longer required. The Contractor shall notify the Power Company at least thirty (30) days prior to desire connection to the power source.

### **4. Permanent Special Guide Signs**

The installation of new permanent special guide signs and the permanent modification or resetting of existing special guide signs, when included in the Contract, shall be accomplished as soon as practical to minimize the use of interim special guide signs. If lighting is required by the Plans, all new permanent overhead special guide signs shall be lighted as soon as erected.

## **F. Stop Sign Regulated Intersections**

For intersections that utilize stop sign(s) to control the flow of traffic and to restrict the movement of vehicles, the stop sign(s) shall be maintained for the duration of the Work or until such time that the stop condition is eliminated or until an interim or permanent traffic signal can be installed to provide proper traffic control. The traffic signal shall be installed and properly functioning before the removal of the existing stop sign(s) is permitted. If the existing intersection is enhanced traffic control features, such as stop lines, double indicated stop signs, oversized signs, advanced warning stop ahead signs, rumble strips on the approaches or flashing beacons located overhead or on

the shoulders then these features shall be maintained for the duration of the project or until the permanent traffic control plan has been implemented.

Whenever the staging of the Work requires that the traveled way be relocated or realigned the Contractor shall reinstall all enhanced traffic control features noted above on the newly constructed sections of the Work. The cost of relocating the stop lines, stop signs, advanced warning signs, the rumble strips and the flashing beacons shall be included in the price bid for Traffic Control - Lump Sum unless individual pay items are included in the Contract for rumble strips and/or flashing beacons. When pay items are included in the Contract for rumble strips or flashing beacons then these items will be paid per each.

When staging requires the relocation or realignment of an existing stop condition, it may be necessary to consider the addition of enhanced traffic control features even though none existed at the original location. Horizontal and vertical alignment changes at a new location may have decreased or restricted sight distance or the stop condition may occur sooner than in the previous alignment. If these conditions occur, then the Engineer and/or the WTCS should consider additional measures to enhance the motorist's awareness of the changes even though the staging plans may not address enhanced features. Stop signs should be a minimum of thirty-six (36") inches for interim situations. The use of forty-eight (48") inch stop signs may be warranted under project specific conditions. Flags may be used on interim/permanent stop signs that are mounted at seven (7') feet in height for a short duration in order to direct additional attention to a new or relocated stop sign(s). Flags should not be used for durations exceeding two weeks unless unusual or site-specific conditions warrant a longer period of time. The use of Type "A" flashing red light(s) attached to the stop sign(s) may be appropriate during the same period that the flags are in use to increase attention.

The use of rumble strips and/or PCMS may be considered. The use of new rumble strips, where none previously existed, shall have the prior approval of District Traffic Operations before being included as part of the temporary traffic control plan. The message(s) displayed on any PCMS shall have the prior approval of the Engineer and the message(s) shall be included as part of the TTC plan for the interim staging.

The placement of any additional interim ground mounted signs and posts or stop lines shall be considered as incidental to the price bid for Traffic Control - Lump Sum. The installation of rumble strips, flashing beacons or the use of Portable Changeable Message Signs (PCMS) shall be considered as Extra Work unless pay items are included in the Contract.

## **G. Low Shoulder Signage**

### **1. Low Shoulder for Construction/Reconstruction/Resurfacing Projects**

"Low Shoulder" (W8-9) signs shall be erected when a difference in elevation less than four (< 4') feet from the traveled way, exceeds one inch (> 1") but does not exceed three inches ( $\leq 3$ ") between the travel lane and any type of shoulder. *For all projects after April 1, 2023*, "Low Shoulder" (W8-9) signs shall be a minimum dimension of forty-eight inches by forty-eight inches (48"x48")

The spacing of the signs shall not exceed one (1) mile and the signs shall be placed immediately past each crossroad intersection. The "Low Shoulder" signs shall remain in place until the difference in elevation is eliminated and the shoulder has been dressed and permanently grassed for a minimum of thirty (30) calendar days. These signs shall be furnished, installed, maintained, and removed by the Contractor as part of Traffic Control-Lump Sum. These signs shall be fluorescent orange with black borders.

### **2. Shoulder Drop-Off for Construction/Reconstruction/Resurfacing Project**

"Shoulder Drop-Off" (W8-17) signs shall be used when a difference in elevation, less than four feet (< 4') from the traveled way, exceeds three inches (> 3") and is not protected by positive barrier protection. These warning signs shall be placed in advance of the drop-off. *For all projects after April 1, 2023*, "Shoulder Drop-Off" (W8-17) shall be a minimum dimension of forty-eight inches by forty-eight inches (48"x48")

The spacing of the signs shall not exceed one (1) mile and the signs shall be placed immediately past each crossroad intersection. The "Shoulder Drop-Off" signs shall remain in place until the difference in elevation is

eliminated and the shoulder has been dressed and permanently grassed for a minimum of thirty (30) calendar days. These signs shall be furnished, installed, maintained, and removed by the Contractor as part of Traffic Control-Lump Sum. These signs shall be black borders on fluorescent orange background.

## H. Bump Signage

A bump sign (W8-1) shall be utilized when a transverse joint in the pavement structure has a vertical difference in elevation of three quarters ( $\geq 3/4$ "") of an inch or greater in depth with no horizontal taper to ramp the traffic from one elevation to the other. This condition typically occurs at approach slabs during pavement milling operations and at transverse joints in asphaltic pavement lifts. Other conditions include utility and storm drainage repairs that require concrete placement for patching and/or steel plating. *For all projects after April 1, 2023, "Bump" sign (W8-1) shall be a minimum dimension of forty-eight inches by forty-eight inches (48"x48")*

The W8-1 sign shall be placed sufficiently in advance to warn the motorist of the condition.

## I. Sign Visibility

All existing, interim, and new permanent signs shall be installed to be completely visible and legible for an advance distance in compliance with the MUTCD. Any clearing required for maintaining the line of sight to existing, interim or permanent signs shall be done as part of the requirements of the TTC plan. The clearing shall include any advance warning signs, both interim and permanent, that are installed as a part of the Work including advance warning signs that are installed outside the limits of the project. Limbs, brush, construction equipment and materials shall be kept clear of the driver's line of sight to all signs that are part of the TTC plan.

## 150.3.04 Advance Warning Signs

### A. Project Signs - All Type of Highways

Advance warning signs shall be placed ahead of the work area in accordance with Part 6 of the MUTCD and unless noted below shall include a series of at least three advance road work (W20-1) signs placed at the termini of the project. The series shall have the legend ROAD WORK (1500 FEET, 1000 FEET, AND 500 FEET).

At grade intersecting roadways and on-ramps shall be signed with a minimum of one ROAD WORK AHEAD sign.

When work terminates at a "T" intersection, a minimum of one "ROAD WORK AHEAD" sign shall be placed in advance of the intersection and one "END ROAD WORK" sign shall be placed at the termination end of the intersection. Field conditions may require the use of additional warning signage.

#### 1. State Routes

Advanced Warning Signs on State Routes shall be a minimum dimension of forty-eight inches by forty-eight inches (48" x 48"). When a State Route intersects a project which consists of adding travel lanes, reconstructing an existing roadway or new location work, the State Route approaches shall have a minimum of three (W20-1) advanced warning signs (1500 ft., 1000 ft., 500 ft.). The termination end of an intersecting State Route shall have END ROAD WORK signage.

The W20-1 signs shall be placed at the termini of the project or sufficiently in advance of the termini to allow for lane shifts, lane closures and other activities which may also require advanced warning signs. The advanced warning signs for the project should not overlap with the advanced warning signs for lane shifts, lane closures, etc.

The length of a work zone should be held to the minimum length required to accomplish the Work. If a project has multiple individual worksites within the overall limits of the project, each site should be signed individually if the advance warning signs for each site can be installed without overlapping an adjacent worksite. As soon as the work is completed at any individual site, the warning signs shall be removed from that site. Clean-up work shall be performed with portable signage.

Project mileage indicated on the G20-1 sign shall be the actual project mileage rounded up to the nearest whole mile. Projects less than two (< 2) miles in length or individual worksites that are part of a multiple worksite project may delete this sign. The G20-1 sign shall be forty-eight inches by twenty-four inches (48" x 24") and the G20-2 sign shall be forty-eight inches by twenty-four inches (48" x 24").

## 2. Interstate, Limited Access and Multilane Divided Highways

In addition to the W20-1 signs required at 500 ft., 1000 ft. and 1500 ft., multi-lane divided highways shall also have additional advanced warning signs installed with the legend "ROAD WORK (2 MILES, 1 MILE and 1/2 MILE). All construction warning signs on divided highways shall be double indicated (i.e., on the left and right sides of the roadway.) If the use of the half (1/2) mile, one (1) mile and two (2) mile advanced warning signs cause an overlap with other work or do not benefit field conditions then the Engineer may review the use of these signs and eliminate their installation. When the posted speed limit is fifty ( $\leq$  50) mph or less, the one-half (1/2) mile, one (1) mile and two (2) mile signs should be eliminated especially in urban areas.

The W20-1 advance warning signs for ROAD WORK 500 FEET; 1000 FEET; and 1500 FEET shall be temporarily covered when work involving the advanced warning signs for lane shifts and lane closures overlap these signs. The ROAD WORK 1/2 MILE, ROAD WORK 1 MILE, and ROAD WORK 2 MILES shall be in place when the 500, 1000 and 1500 feet signs are temporarily covered.

When the Temporary Traffic Control zone already has advanced warning (W20-1) signs installed the W20-1 signs required for lane closures under Standard 9106 should be eliminated.

## 3. Ramp Work on Limited Access Highways

The work zone shall not be signed for the entire length of the mainline of a limited access highway when only short individual worksites, interchange or ramp work is being performed.

When work is restricted to ramp reconstruction or widening activities, the advance warning signs on the mainline section of the limited access highway shall be limited to the use of portable advance warning signs. These portable advance warning signs shall only be utilized when work activity is within the gore point of the ramp and the mainline traveled way or work is active in the acceleration/deceleration lane adjacent to the mainline traveled way. Portable advance warning signs (W20-1: 1500 ft. /1000 ft. /500 ft.) shall be installed on the traveled way of the limited access highway when the above conditions are present. The advance warning signs shall be installed only in one direction where work is active. All portable signs shall be double indicated. When work is not active, the ramp work shall be advanced warned by the use of a single forty-eight inches by forty-eight inches (48" x 48") "ROAD WORK AHEAD" (W20-1) with an "ON RAMP" plaque (W13-4p) sign along the right shoulder of the mainline traveled way prior to the beginning of the taper for the deceleration lane. Differences in elevation shall be in compliance with the requirements of Subsection 150.3.11 prior to the removal of the portable (W20-1) advanced warning signs from the mainline.

## B. Highway Work Zone

In accordance with Georgia Code, O.C.G.A. § 40-6-188, all sections or segments of the roadway under construction or reconstruction shall be signed as a Highway Work Zone except non-state highway two-lane two-way resurfacing projects. Two conditions can be applied to a Highway Work Zone. Condition 1 is when no reduction in the existing speed limit is required. Condition 2 is when worksite conditions require a reduction of the speed limit through the designated Work Zone. Properly marking a Highway Work Zone shall include the following minimum requirements:

### 1. No Reduction in the Existing Posted Speed Limit in Highway Work Zone

- a. Signage shall be posted at the beginning point of the Highway Work Zone warning the traveling public that increased penalties for speeding violations are in effect. The beginning point of Highway Work Zone is at the project limits, start of work zone, or at the start of the first taper. The HWZ-2 sign shall be placed a minimum of 600 feet in advance of the Highway Work Zone and shall not be placed more than 1000 feet in advance of the Work Zone. If no speed reduction is required, it is recommended that the HWZ-2 be placed at 750 feet from the work area between the ROAD WORK 500 FT. and the ROAD WORK 1000 FT. signs.

HWZ-2 signs shall be placed at intervals not to exceed one mile for the length of the project. HWZ-2 signs should be placed on the mainline after all major intersections except State Routes. State Routes shall be signed as per the requirements for intersecting roadways below.

- b. The existing speed limit shall be posted at the beginning of the Work Zone. Existing Speed Limit signs (R2-1) shall be maintained.
- c. Intersecting state routes shall be signed in advance of each intersection with the Work Zone with an HWZ-2 sign to warn motorists that increased fines are in effect. All other intersecting roadways that enter into a designated Highway Work Zone may be signed in advance of each intersection with the Work Zone. When construction equipment and personnel are present in the intersection on the mainline of a multi-lane roadway, the intersecting side roads shall be signed in advance with HWZ-2 signs. As soon as the work operation clears the intersection, the signage may be removed.
- d. Sign HWZ-3 shall be posted at the end of the Highway Work Zone indicating the end of the zone and indicating that increased penalties for speeding violations are no longer in effect.
- e. When a designated Highway Work Zone is no longer necessary, all signs shall be removed immediately.

## 2. Reducing the Speed Limit in a Highway Work Zone

Highway Work Zone signs shall be posted as required in Condition 1 above and in accordance with Detail 150-C.

A "Reduced Speed Ahead" sign shall be posted 600 feet prior to the reduced speed limit.

Then a "Speed Limit" signage (R2-1) for the reduced speed limit shall be erected at the beginning of the Work Zone. Additional signs shall be placed at whichever is least:

- a. on non-interstate roads after every junction with a numbered (state or U.S.) route.
- b. on interstates entrance ramp 1,500 feet from the end of the entrance taper. Detail 150-D
- c. on non-interstate and interstate, a maximum spacing of no greater than one (1) mile apart.

On interstates and multi-lane divided highways, the speed limit signs shall be double indicated when the reduced speed is in use.

Additional signs may be necessary to adjust for actual field conditions.

For limited access (interstate) highways and controlled access multi-lane divided highways, the posted speed limit shall be reduced as required below.

When any one or more of the following conditions exist and the existing speed limit is sixty-five (65) mph or seventy (70) mph, the speed limit shall be reduced by ten (10) mph. If the existing speed limit is sixty (60) mph, the speed limit should be reduced by five (5) mph. If the existing speed limit is fifty-five ( $\leq 55$ ) mph or less, the Contractor can only reduce the speed limit with the prior approval of the Engineer. The reduction in the speed limit shall be no greater than ten (10) mph:

- a) Lane closure(s) of any type and any duration.
- b) The difference in elevation exceeds two inches ( $> 2''$ ) adjacent to a travel lane as shown in Subsection 150.3.11, Detail 150-E, Detail 150-F.
- c) Any areas where equipment or workers are within ten feet (10') of a travel lane.
- d) Temporary portable concrete barriers located less than two feet (2') from the traveled way.
- e) As directed by the Engineer for conditions distinctive to this project.

When the above conditions are not present, the speed limit shall be immediately returned to the existing posted speed limit. A speed reduction shall not be put in place for the entire length of the project unless conditions warranting the speed reduction are present for the entire project length. All existing speed limit signs within the temporary speed reduction zone shall be covered or removed while the temporary reduction in the speed limit is in effect. All signs shall be erected to comply with the minimum requirements of the MUTCD.

At a minimum, the following records shall be kept by the WTCS:

- a) Identify the need for the reduction.
- b) Record the time of the installation and removal of the temporary reduction.
- c) Fully describe the location and limits of the reduced speed zone.
- d) Document any accident that occurs during the time of the reduction.

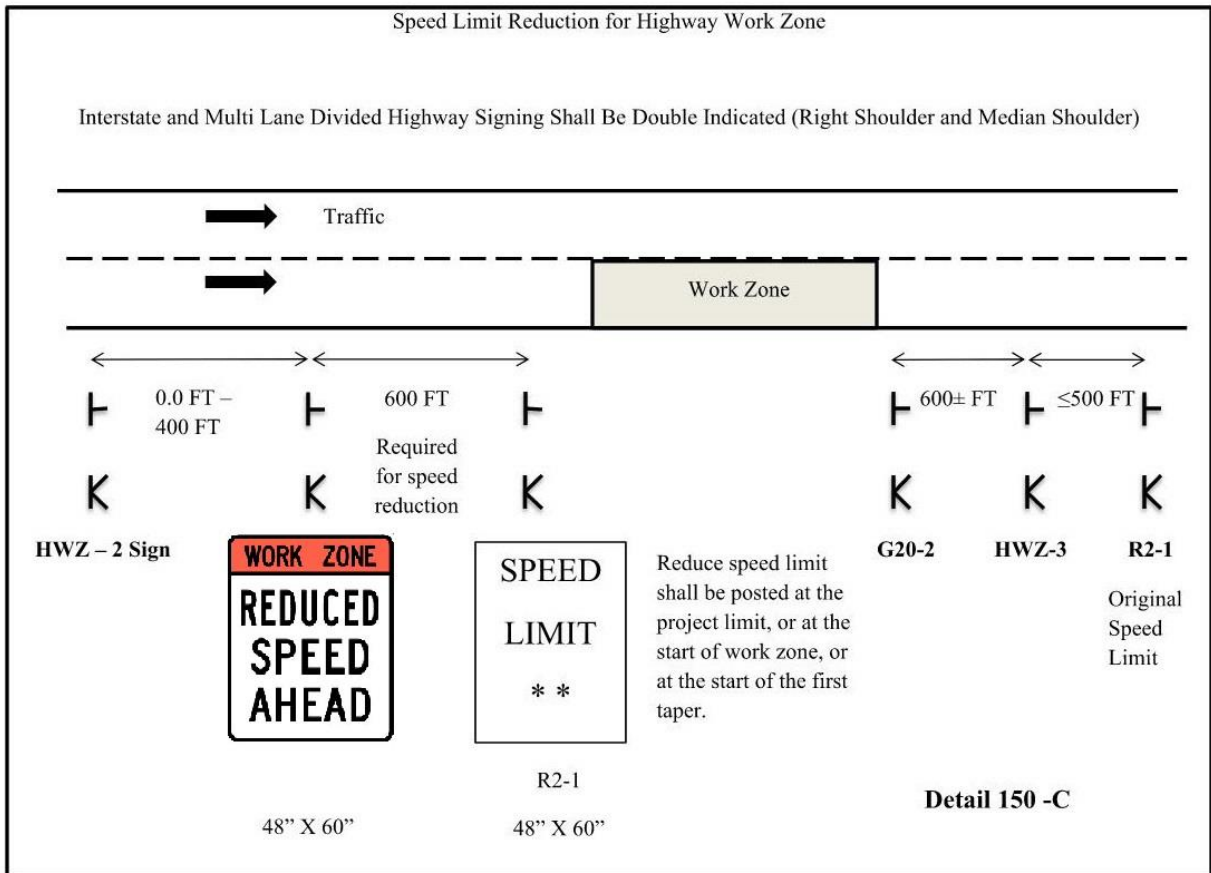
A copy of the weekly records for reduced speed zones shall be submitted to the Engineer.

When a pilot vehicle is used on a two-lane two-way roadway, the speed limit should not be reduced. For special conditions specific to the Work, on two-lane two-way roadways or multi-lane highways, the Contractor may reduce the posted speed limit with the prior approval of the Engineer.

### 3. Variable Speed Limit Zones

Projects that are within or extends into variable speed limit zones shall be posted according to condition 1 with HWZ-1, HWZ-2, and HWZ-3 signs. No additional "speed limit" signs, (R2-1), shall be posted. Any reduction or increase in speed limits will be controlled by the normal operation of the variable speed limit system.

Upon request, a maximum speed limit of fifty-five (55) mph may be set for the project limits.





HWZ-2;

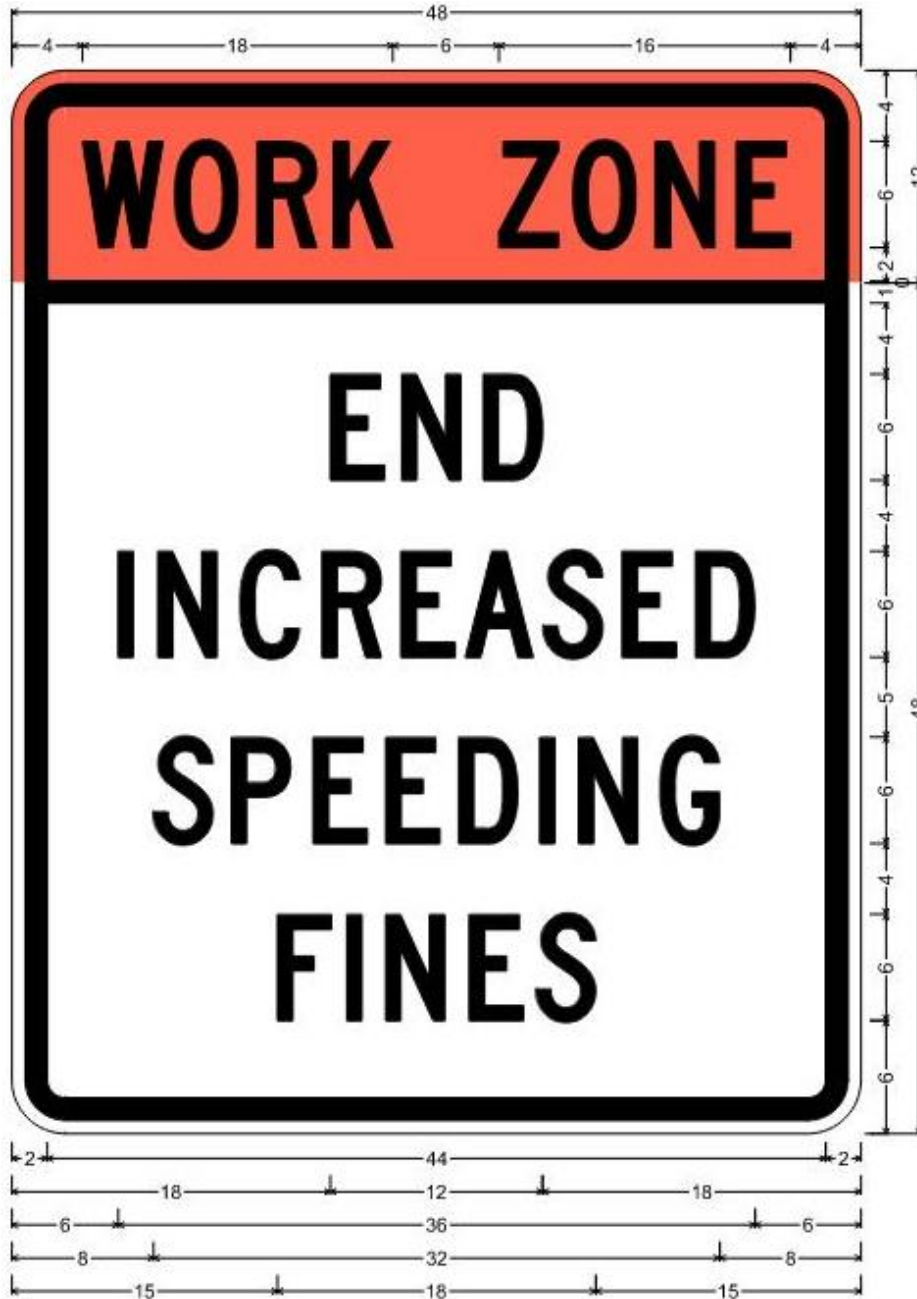
3" Radius, 1" Border, 1" Indent, Black on Fluorescent orange;  
 "WORK ZONE", C 2K specified length;

3" Radius, 1" Border, 1" Indent, Black on White;  
 "SPEEDING", C 2K specified length; "FINES", C 2K specified length;  
 "INCREASED", C 2K specified length;

3" Radius, 1" Border, 1" Indent, Black on White;  
 "MINIMUM", D 2K specified length; "FINE \$100", D 2K specified length;

### HWZ-2

1. All HWZ-2 sign panels shall be rigid.
2. The size of the HWZ-2 sign shall not be reduced for use on two-lane roadways.



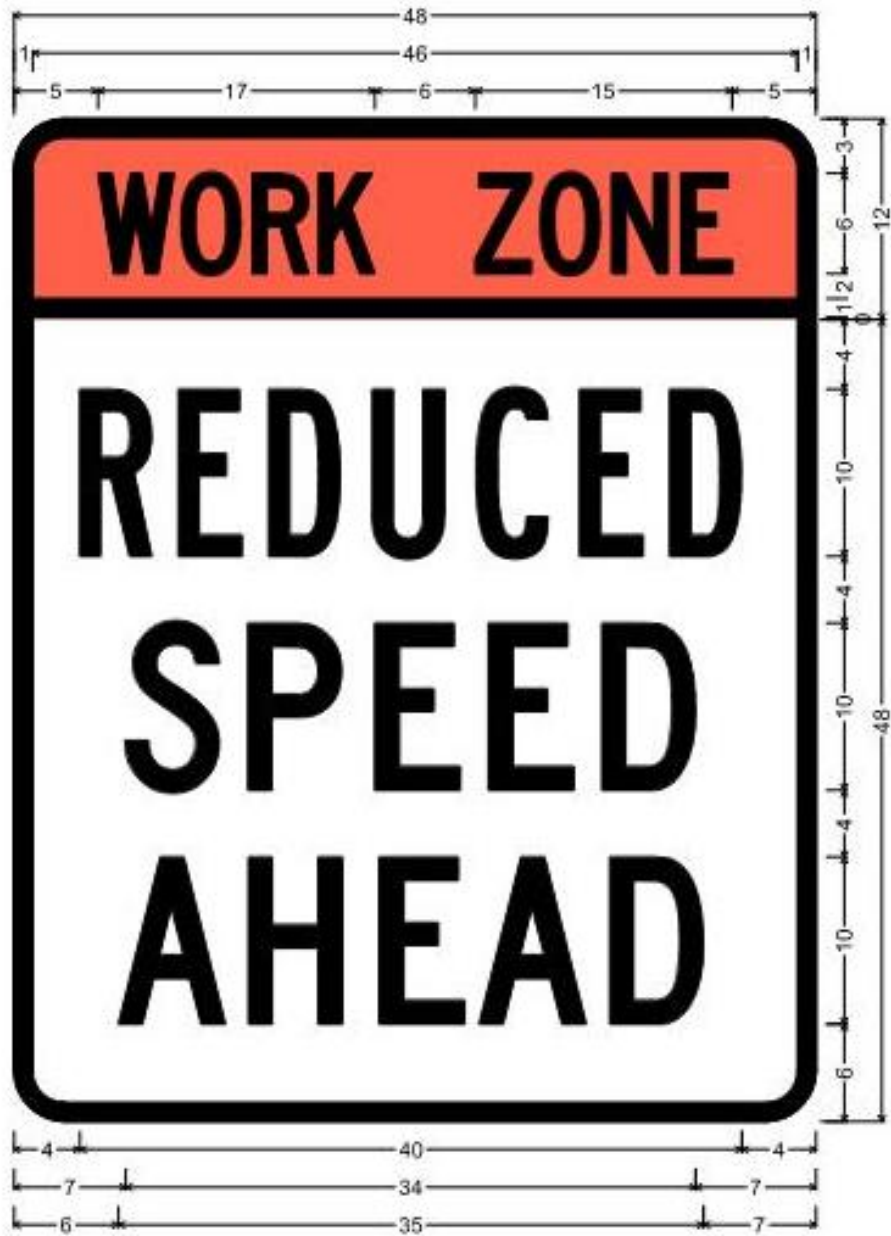
HWZ-3;

3" Radius, 1" Border, 1" Indent, Black on Fluorescent orange;  
 "WORK ZONE", C 2K specified length;

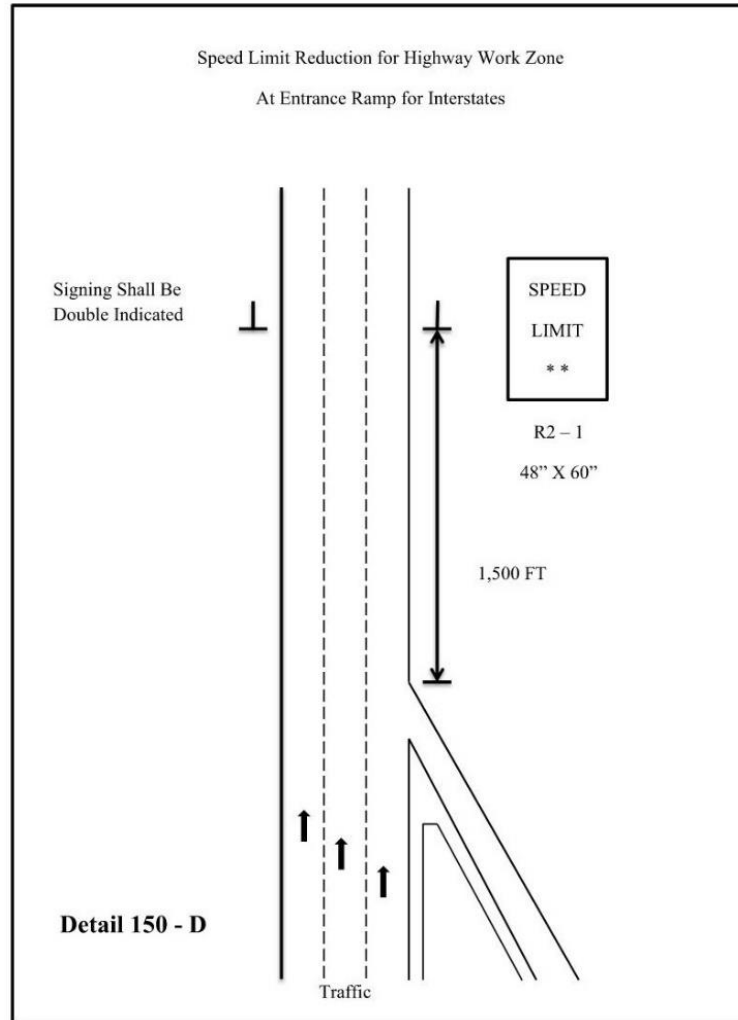
3" Radius, 1" Border, 1" Indent, Black on White;  
 "END", C 2K specified length; "INCREASED", C 2K specified length;  
 "SPEEDING", C 2K specified length; "FINES", C 2K specified length;

### HWZ-3

1. All HWZ-3 sign panels shall be rigid.
2. The size of the HWZ-3 sign shall not be reduced for use on two-lane roadways.



3" Radius, 1" Border, Black on Fluorescent orange;  
 "WORK", C 2K 60% spacing; "ZONE", C 2K 60% spacing;  
 3" Radius, 1" Border, Black on White;  
 "REDUCED", B 2K; "SPEED", C 2K; "AHEAD", C 2K;



### C. Installation/Removal of Work Area Signage

No payment will be made for Traffic Control-Lump Sum until the Work has actually started on the Project. The installation of traffic control signage does not qualify as the start of work. Advanced warning signs shall not be installed until the actual beginning of work activities. Any permanent mount height signs installed as the work is preparing to start shall be covered until all signs are installed unless all signs are installed within seven ( $\leq 7$ ) calendar days after beginning installation.

All temporary traffic control devices shall be removed as soon as practical when these devices are no longer needed. When work is suspended for short periods of time, temporary traffic control devices that are no longer appropriate, shall be removed or covered.

All construction warning signs shall be removed within seven ( $\leq 7$ ) calendar days after time charges are stopped or pay items are complete. If traffic control devices are left in place for more than ten ( $> 10$ ) calendar days after completion of the Work, the Department shall have the right to remove such devices, claim possession thereof, and deduct the cost of such removal from any monies due, or which may become due, the Contractor.

**CORRECTIVE LIST WORK:** Portable signs shall be utilized to accomplish the completion of all corrective list items, if the corrective list is the only work being performed. The portable signs shall be removed daily. All permanent mount height signs shall be removed prior to the beginning of the corrective list only work, except "Low/Soft Shoulder" signs and any signs that have the prior written approval of the Engineer to remain in place while the corrective list work is in progress.

Failure to promptly remove the construction warning signs within the seven (7) calendar days after the completion of the Work or failure to remove or cover signs when work is suspended for short periods of time shall be considered as non-performance under Subsection 150.7.01.

## 150.3.05 Shoulder/Lane Closures

### A. Approval/Restrictions

All shoulder closures and lane closures of any type or duration shall have the prior approval of the Engineer.

#### 1. Closure Length

The length of a shoulder closure and a lane closure shall not exceed two (2) miles in length excluding the length of the tapers unless the prior approval of the Engineer has been obtained. The Engineer may extend the length of the closure based upon field conditions; however, the length of a work zone should be held to the minimum length required to accomplish the Work. Shoulder closure and Lane Closures shall not be spaced closer than one mile. The advanced warning signs for the Project should not overlap with the advanced warning signs for lane shifts, lane closures, etc.

#### 2. Duration

The first (7) calendar days in an Urban area and the first three (3) calendar days in a Rural area of any lane closure shall be signed and marked as per Georgia Standard 9106 "Traffic Control Detail for Lane Closure on Multi-Lane Divided Highway" or Georgia Standard 9107 "Traffic Control Detail for Lane Closure on Multi-Lane Undivided Highway". However, lane closures that exist for a duration longer than three (> 3) calendar days may be signed and marked as per the details in Georgia Standard 9121 "Tapers, Signs, and Markings for Passing Lanes", provided the prior approval of the Engineer is obtained. The approved lane drop shall utilize a PCMS and only the signs and markings shown for the termination end of the lane drop in Georgia Standard 9121. All warning signs in the lane drop sequence shall be used. Drums may be substituted for the Type I Crystal Delineators at the same spacing.

### B. Shoulder Closures

In accordance with MUTCD (6N.06), when paved shoulders, having a width of eight feet ( $\geq 8'$ ) or more are closed, at least one (1) advance warning sign shall be used. The sign(s) should read SHOULDER CLOSED (W21-5a). The signs are only posted on the side with the shoulder closure. Where the downstream end of the shoulder closure extends beyond the distance that can be perceived by road users, a supplementary plaque bearing the message NEXT XX FEET(W16-4P) or MILES (W7-3aP) should be placed below the SHOULDER CLOSED (W21-5a) sign. These signs shall be placed 500 feet prior to the shoulder closure. For multi-shoulder closures, the Shoulder Closed sign shall be repeated after two (2) miles at 500 feet prior to the next shoulder closure.

A shoulder closure will require a shoulder taper of  $(1/3) L$  ( $L$ =merging taper length). Traffic drums shall be used for the taper. Arrow boards are not required.

If positive barriers are used to close the shoulder, the taper and drums shall be in accordance with Standard 4960, Temporary Barrier (End Treatment Options). The approach end of the barrier taper should be 10:1 or flatter slope.

### C. Lane Closure

#### 1. Advance Warning Signs

The Advance Warning signs shall be in accordance with MUTCD and Georgia Standard 9106 "Traffic Control Detail for Lane Closure on Multi-Lane Divided Highway" and Georgia Standard 9107 "Traffic Control Detail for Lane Closure on Multi-Lane Undivided Highway".

When the Temporary Traffic Control zone already has advanced warning (W20-1) signs installed the W20-1 signs required for lane closures under Standard 9106 and 9107 should be eliminated.

For Interstate, Limited Access and Multi-lane Divided Highways, an additional PCMS shall be placed one (1) mile in advance of a lane closure with a message denoting the appropriate lane closure one (1) mile ahead. No other message shall be displayed on this PCMS. The PCMS shall be placed on the outside shoulder in accordance with Detail 150-B [PCMS]. This is in addition to the other traffic control devices required by Standard 9106.

At the discretion of the Engineer, the Contractor may start placing advance warning signs a half-hour (1/2 hr.) prior to the lane closure.

**2. Transition Area – Taper**

Drums shall be used on all transition tapers. If traffic drums with retroreflectivity of less than type VI are used for a merge taper that exists into the night, all drums located in the taper shall have, for the length of the taper only, a six inch (6”) fluorescent orange (ASTM Type VI, VII, VIII, IX or X) reflectorized top stripe on each drum. The top six inch (6”) stripe may be temporarily attached to the drum while in use in a taper. The Engineer may allow the fluorescent orange reflectorized six inch (6”) top stripe on each drum in a merging taper to remain in place during daylight hours provided there is a lane closure(s) with a continuous operation that begins during one nighttime period and ends during another nighttime period. All drums that have the six inch (6”) top stripe permanently attached shall not be used for any other conditions.

In accordance with [MUTCD \(6B.08\)](#), the minimum length for a merging taper for a lane closure on the travel way shall be as shown in Table 150-1:

**TABLE 150-1**

Posted Speed Limit, MPH	Lane Width 9 Feet	Lane Width 10 Feet	Lane Width 11 Feet	Lane Width 12 Feet	Maximum Drum Spacing in Tapers, (Feet)
<b>Minimum Taper Length (L) in Feet</b>					
20	60	70	75	80	20
25	95	105	115	125	25
30	135	150	165	180	30
35	185	205	225	245	35
40	240	270	295	320	40
45	405	450	495	540	45
50	450	500	550	600	50
55	495	550	605	660	55
60	540	600	660	720	60
65	585	650	715	780	65
70	630	700	770	840	70
75	675	750	825	900	75

If site conditions require a longer taper, then the taper shall be lengthened to fit particular individual situations.

The length of shifting tapers should be at least one-half (1/2) L.

Multiple Lane Closures:

- a. A maximum of one (1) lane at a time shall be closed with each merging taper.
- b. A minimum tangent length of two (≥ 2) L shall be installed between each individual lane closure taper. The tangent length is part of the transition area. Therefore, only traffic drums can be used in the tangent.

### 3. Activity Area

The activity area consists of a buffer and the work space. Georgia Standard 9106 “Traffic Control Detail for Lane Closure on Multi-Lane Divided Highway” states “Buffer zones of 300’ minimum, 500’ desirable are required for tangent sections and shall be increased for horizontal or vertical curves due to sight distance considerations”

Georgia Standard 9107 “Traffic Control Detail for Lane Closure on Multi-Lane Undivided Highway” requires a fifty feet (50’) buffer. The buffer shall be increased for horizontal or vertical curves due to sight distance considerations”

The channelization devices are spaced at a maximum of eighty feet (80’).

### 4. Termination Area

Georgia Standard 9106 “Traffic Control Detail for Lane Closure on Multi-Lane Divided Highway” requires a 150 feet buffer and a minimum 200 feet downstream taper.

Georgia Standard 9107 “Traffic Control Detail for Lane Closure on Multi-Lane Undivided Highway” requires 150 feet downstream taper.

## D. Removal of Lane Closures

To provide the greatest possible convenience to the public in accordance with [Section 107](#), the Contractor shall remove all signs, lane closure markings, and devices immediately when lane closure work is completed or temporarily suspended for any length of time or as directed by the Engineer. All portable signs and portable sign mounting devices shall be removed from the roadway to an area which will not allow the sign to be visible and will not allow the sign or sign mounting device to be impacted by traffic. All devices shall be stored beyond the clear zone or behind positive protection.

## E. Exit and Entrance Ramps

On multi-lane highways, where traffic has been shifted to the inside lanes, the exit and entrance ramps shall have drums placed on both sides of the ramp. This requirement will apply to any situation where traffic is shifted to contra flows or inside staging lanes to facilitate reconstruction work in the vicinity of exit and entrance ramps. The temporary ramp taper length should be greater than, or equal to, the existing taper length. Interim EXIT gore signs shall be placed at the ramp divergence. The “EXIT OPEN” sign shown in Figure TA-42 of the MUTCD shall be utilized. For exit ramps, drums spacing shall be decreased to ten feet (10’) for 200 feet in advance of the temporary gore and be decreased to ten feet (10’) for the first 100 feet of the temporary gore, and throughout the exit ramp. For on-ramps, drums should be used 200 feet prior to the ramp and end 100 feet past the merge taper. The drum spacing for the on ramp may be decreased but should not obstruct the view of the drivers i.e. for the ramp vehicles.

## 150.3.06 Traffic Pacing Method

### A. Pacing of Traffic

With prior approval from the Engineer, traffic may be paced allowing the Contractor up to twenty (20) minutes maximum to work in or above all lanes of traffic for the following purposes:

1. Placing bridge members or other bridge work.
2. Placing overhead sign structures.
3. Other work items requiring interruption of traffic.

The Contractor shall provide a uniformed law enforcement officer with patrol vehicle and blue flashing light for each direction of pacing. The law enforcement officer, Engineer, and flaggers at ramps shall be provided with a radio which will provide continuous contact with the Contractor.

When ready to start the work activity, the law enforcement vehicle will act as a pilot vehicle slowing the traffic, thereby providing a gap in traffic allowing the Contractor to perform the Work. Any on-ramps between the pace and the work area shall be blocked during pacing of traffic, with a flagger properly dressed and equipped with a Stop/Slow paddle. Each ramp should be opened after the law enforcement vehicle has passed.

Pilot vehicles shall travel at a safe pace speed. The Contractor shall provide a vehicle to proceed in front of the law enforcement vehicle and behind the other traffic in order to inform the Contractor's work force when all vehicles have cleared the area.

Traffic should not be permitted to stop during pacing unless approved by the Engineer.

## **B. Methods of Signing for Traffic Pacing**

At a point not less than 1,000 feet in advance of the beginning point of the pace, the Contractor shall place a PCMS sign with the message "TRAFFIC SLOWED AHEAD EXPECT SHORT DELAY".

## **150.3.07 Flagging Operations**

### **A. Flaggers**

Flaggers shall be provided as required to handle traffic, as specified in the Plans or Special Provisions, and as required by the Engineer.

### **B. Flagger Certification**

All flaggers shall meet the requirements of the [MUTCD](#) and shall have received training and a certificate upon completion of the training from one of the following organizations:

National Safety Council  
American Traffic Safety Services Association (ATSSA)

On-line classes are not accepted.

Failure to provide certified flaggers as required above shall be reason for the Engineer suspending work involving the flagger(s) until the Contractor provides the certified flagger(s). Flaggers shall have proof of certification and valid identification (photo I.D.) available any time they are performing flagger duties.

### **C. Flagger Appearance and Equipment**

Flaggers shall wear Performance Class 2 or better for daytime activities. Flaggers shall wear Performance Class 3 or better high-visibility clothing for nighttime activities. Flagger stations shall be illuminated at night according to [MUTCD \(6M.08\)](#). They shall use a Stop/Slow paddle meeting the requirements of the [MUTCD \(6D.02\)](#) for controlling traffic. The Stop/Slow paddles shall have a shaft length of seven feet ( $\geq 7'$ ) minimum. The Stop/Slow paddle shall be retroreflectORIZED for both day and night usage. In addition to the Stop/Slow paddle, a flagger may use a flag as an additional device to attract attention. This flag shall meet the minimum requirements of the [MUTCD \(6D.02\)](#). The flag shall, as a minimum, be twenty-four inches ( $\geq 24"$ ) square and red or red/orange in color.

### **D. Flagger Warning Signs**

Signs for flagger traffic control shall be placed in advance of the flagging operation, in accordance with the [MUTCD](#) and [Georgia Standard 9102 "Traffic Control Detail for Lane Closure on Two-Lane Highway"](#). In addition, signs at

regular intervals, warning of the presence of the flagger shall be placed beyond the point where traffic can reasonably be expected to stop under the most severe conditions for that day's work.

#### **E. Pilot Vehicle Requirements**

Pilot vehicles should be required during placement of bituminous surface treatment or asphaltic concrete on two-lane roadways unless otherwise specified. Pilot vehicles shall meet the requirements of the [MUTCD \(6E.04\)](#).

#### **F. Automated Flagger Assistance Devices**

The Contractor may request, in writing, the use of Automated Flagger Assistance Devices (AFAD). The equipment shall meet the requirements of [MUTCD \(6L.02\)](#). As a part of this request, the Contractor shall also submit an alternate temporary traffic TTC plan in the event of a failure of the AFAD. Any alternate plan that requires the use of flaggers shall include the use of certified flaggers. The Contractor shall obtain the approval of the Engineer before the use of any AFAD will be permitted.

#### **G. Portable Temporary Traffic Control Signals**

The Contractor may request, in writing, the substitution of portable temporary traffic control signals for flaggers on two-lane two-way roadways provided the temporary signals meets the requirements of the MUTCD, [Section 647](#), and [subsection 150.2.11](#). As a part of this request, the Contractor shall also submit an alternate TTC plan in the event of a failure of the signals. Any alternate plan that requires the use of flaggers shall include the use of certified flaggers. The Contractor shall obtain the approval of the Engineer before the use of any portable temporary traffic control signals will be permitted.

### **150.3.08 Traffic Signals**

#### **A. Responsibility/Cost**

If the sequence of operations, staging, or the TTC plan requires the relocation or shifting of any components of an existing traffic signal system then any work on these traffic signals will be considered as part of Traffic Control – Lump Sum.

#### **B. Law Enforcement Officer Requirement**

In accordance with Georgia law § 40-6-20, law enforcement officers shall be used to regulate and maintain traffic control at functioning signalized intersections when lane closures or traffic shifts block or restrict movements causing interference with road user flows and will not allow the activated traffic signal to guide the traffic through the signal site.

### **150.3.09 Mobile Operations**

A mobile operation is defined by a minimum speed of three (3) mph. When pavement markings (centerlines, lane lines, and edge lines) are applied in a continuous operation by moving vehicles and equipment, the following minimum equipment and warning devices shall be required. These devices and equipment are in addition to the minimum requirements of the MUTCD.

All vehicles shall be equipped with the official slow moving vehicle symbol sign. All vehicles shall have a minimum of two (2) flashing or rotating beacons visible in all directions. All protection vehicles shall have an arrow panel mounted on the rear. All vehicles requiring an arrow panel shall have, as a minimum, a Type B panel. All vehicle mounted signs shall be mounted with the bottom of the sign a minimum height of forty-eight inches (48") above the pavement. All sign legends shall be covered or removed from view when work is not in progress.

The lead vehicle may be a separate vehicle or the work vehicle applying the pavement markings may be used as the lead vehicle. The lead vehicle shall have an arrow panel mounted so that the panel is easily visible to oncoming (approaching) traffic. The arrow panel should operate in the caution mode.

The work vehicle(s) applying markings shall have an arrow panel mounted on the rear. The arrow panel should typically operate in the caution mode. The work vehicle placing cones shall follow directly behind the work vehicle applying the markings.

A protection vehicle shall follow the last work vehicle at all times and shall be equipped with a truck mounted attenuator that shall be certified for impacts not less than sixty-two (62) mph in accordance with MASH/NCHRP350 Test Level Three (3).

## **150.3.10 Pavement Markings**

### **A. General**

Full pattern pavement markings in conformance with Chapter 3A and 3B, except 3B.0 3, of the MUTCD are required on all courses before the roadway is opened to traffic, unless noted in this section. No passing zones shall be marked to conform to Subsection 150.3.10.D.1.b. During construction and maintenance activities on all highways open to traffic, both existing markings and markings applied under this Section shall be fully maintained until Final Acceptance. If the pavement markings are, or become, unsatisfactory in the judgment of the Engineer due to wear, weathering, or construction activities, they shall be restored immediately.

Markings on the final surface course, which must be removed, shall be a removable type. The Contractor will be permitted to use paint, thermoplastic, or tape on pavement which is to be overlaid as part of the Project, unless otherwise directed by the Engineer. Partial (skip) reflectorization (i.e. reflectorizing only a portion of a stripe) will not be allowed.

#### **1. Resurfacing Projects**

Pavement markings shall be provided on all surfaces that are placed over existing markings. Interim and final markings shall conform in type and location to the markings that existed prior to resurfacing unless changes or additions are noted in the Contract. The replacement of parking spaces will not be required unless a specific item or note has been included in the Contract. Any work to make additions to the markings that existed prior to resurfacing is to be considered as extra work.

#### **2. Widening and Reconstruction Projects**

If the lane configuration is altered from the preconstruction layout then pavement markings will be as required by the Plans or the Engineer.

#### **3. New Location Construction Projects**

Pavement marking plans will be provided.

### **B. Installation and Removal of Pavement Markings**

#### **1. Installation**

All pavement markings, both interim and permanent, shall be applied to a clean surface. The Contractor shall furnish the layout and preline the roadway surface for the placement of pavement markings applied as part of the TTC plan. All interim marking tape and RPM's on the final surface shall be removed prior to the placement of the final markings.

The Contractor shall sequence the Work in such a manner as to allow the installation of markings in the final lane configuration at the earliest possible stage of the Work.

## 2. Removal

Markings no longer applicable shall be removed in accordance with [Section 656](#).

The elimination of conflicting pavement markings by overpainting with unapproved paint or any type of liquid asphalt is not acceptable.

## 3. Intermediate Surface

Interim markings shall be removed by methods that will cause minimal damage to the pavement surface, while also ensuring that traveling public will not be confused or misdirected by any residual markings remaining on the intermediate surface. The use of approved black-out tape and black-out paint (manufactured for the sole purpose of covering existing pavement markings) may be permitted on some interim surfaces, provided the results are satisfactory to the Engineer.

## 4. Final Surface

No interim paint or thermoplastic markings will be permitted on any final surface unless the interim markings are in alignment with the location of the permanent markings and the interim marking will not interfere or adversely affect placement of the permanent markings. The proposed method of removal for layout errors that require markings to be removed from the final surface shall have the prior approval of the Engineer. Any damage to the final pavement surface caused by the pavement marking removal process shall be repaired at the Contractor's expense by methods acceptable and approved by the Engineer. [Section 400](#) shall apply when corrective measures are required. The use of black-out tape or black-out paint will not be permitted under any circumstance to correct layout errors on any final surface.

Traffic shifts that are done on the final surface shall be accomplished using interim traffic marking tape that can be removed without any blemishing of the final surface. Interim traffic marking tape shall be used on any of the following final surfaces: asphaltic concrete, Portland cement concrete, and bridge deck surfaces. The Contractor may propose alternate traffic markings and removal methods on the final surface. Submitted proposals shall include the type of material, method of removal and a cost comparison to the traffic marking tape method. Prior to any approval, the Contractor shall field demonstrate to the satisfaction of the Engineer that the proposed traffic markings can be removed without any blemishing of the final surface. If the proposal is determined to be acceptable, a supplemental agreement will be executed prior to the installation of the proposed alternate traffic markings. The supplemental agreement shall denote the type of traffic marking materials, method of removal and any cost and/or time savings to the Department. The Department will not consider or participate in any cost increase that may result from implementing the proposed alternate method.

## 5. Pay Factor Reduction for Asphaltic Concrete Final Surfaces

When the correction of an error in the layout of the final pavement markings requires the final surface to be grounded, blemished, scarred, or polished the pay factor shall be reduced to 0.95 for the entire surface area of the final topping that has a blemish, polished or a scarred surface. The reduced pay factor shall not be confined to only the width and length of the stripe or the dimensions of the blemished areas, the whole roadway surface shall have the reduced pay factor applied. The area of the reduced pay factor shall be determined by the total length and the total width of the roadway affected. If the affected area is not corrected, the reduction in pay shall be deducted from the final payment for the topping layer of asphaltic concrete. The Engineer shall make the final determination whether correction or a reduced pay factor is acceptable.

The eradication of pavement markings on intermediate and final concrete surfaces shall be accomplished by a method that does not grind, polish, or blemish the surface of the concrete. The method used for the removal of the interim markings shall not spall chip the joints in the concrete and shall not damage the sealant in the joints. Any joint or sealant repairs shall be included in the bid price for Traffic Control-Lump Sum. The proposed method of removal shall have the prior approval of the Engineer.

Failure to promptly remove conflicting or non-applicable pavement markings shall be considered as non-performance under [Subsection 150.7.01](#).

## 6. Preparation and Planning for Traffic Shifts

When shifting of traffic necessitates removal of centerline, lane lines, or edge lines, all such lines shall be removed prior to, during, or immediately after any change to present the least interference with traffic. Interim traffic marking tape shall be used as a temporary substitute for the traffic markings being removed.

Before any change in traffic lane(s) alignment, marking removal equipment shall be present on the project for immediate use. If marking removal equipment failures occur, the equipment shall be repaired or replaced (including leasing equipment if necessary), so that the removal can be accomplished without delay.

Except for the final surface, markings on asphaltic concrete may be obliterated by an overlay course, when approved by the Engineer. When an asphaltic concrete overlay is placed for the sole purpose of eliminating conflicting markings and the in place asphaltic concrete section will allow, said overlay will be eligible for payment only if designated in the Plans. Overlays to obliterate lines will be paid for only once and further traffic shifts in the same area shall be accomplished with removable markings. Only the minimum asphaltic concrete thickness required to cover lines will be allowed. Excessive build-up will not be permitted. When an overlay for the sole purpose of eliminating conflicting markings is not allowed, the markings no longer applicable shall be removed in accordance with [Section 656](#).

## C. Raised Pavement Markers

Retroreflective raised pavement markers (RPMs) shall be placed as listed below for all asphaltic concrete pavements before the roadway is open to traffic, unless noted this section. On the final surface, RPMs shall be placed according to the timeframes specified in [Subsection 150.3.10.D](#) for full pattern pavement markings. When Portland Cement Concrete is an intermediate or final surface and is open to traffic, one (1) calendar day is allowed for cleaning and drying before the installation of RPMs is required.

Raised pavement markers are not allowed on the right edge lines under any situation.

Retroreflective raised pavement markers (RPMs) shall be placed and/or maintained on intermediate pavements surfaces on all highways that the final ride surface is not completed within 45 calendar days which is open to traffic. This includes all resurfacing projects along with widening and reconstruction projects. The RPMs shall be placed as follows:

### 1. Supplementing Lane Lines:

- a. Eighty foot (80') center on skip lines with curvature less than three degrees. (Includes tangents)
- b. Forty foot (40') centers on solid lines and all lines with curvature between three degrees and six degrees.
- c. Twenty foot (20') centers on curves over six degrees.
- d. Twenty foot (20') centers on lane transitions or shifts.

### 2. Supplementing Ramp Gore Lines:

- a. Twenty foot (20') centers, two each, placed side by side.

### 3. Other Lines:

- a. As shown on the Plans or directed by the Engineer.

## D. Exceptions for Interim Markings

Some exceptions to the time of placement and pattern of markings are permitted as noted below; however, full pattern pavement markings are required for the completed project.

**1. Two-Lane, Two-Way Roadways**

**a. Skip Lines**

If used, interim temporary tape or paint skip (broken) stripe may only be used for a maximum of three (3) calendar days. The stripes shall be at least two feet ( $> 2'$ ) long with a maximum gap of thirty-eight feet ( $\leq 38'$ ). On curves greater than six degrees ( $>6^\circ$ ), a one foot ( $1'$ ) stripe with a maximum gap of nineteen feet ( $\leq 19'$ ) shall be used. In lane shift areas, solid lines will be required.

Interim raised pavement markers may be substituted for the interim skip (broken) stripes. If raised pavement markers are substituted for the two foot ( $2'$ ) interim skip stripe, three (3) markers spaced at equal intervals over a two foot ( $2'$ ) distance will be required. No separate payment will be made if the interim raised pavement markers are substituted for interim skip lines.

Interim raised pavement markers shall be retro-reflective, shall be the same color as the pavement markers for which they are substituted, and shall be visible during daytime.

The type of interim marker and method of attachment to the pavement shall be approved by the Office of Materials and Testing but in no case will the markers be attached by the use of nails. Flexible reflective markers, Type 14 or Type 15, may be used for a maximum of three (3) calendar days as an interim marker. Any flexible reflective markers in use shall be from the QPL-76.

The interim raised pavement markers shall be maintained until the full pattern pavement markings are applied. At the time full pattern markings are applied the interim raised markers shall be removed in a manner that will not interfere with application of the full pattern pavement markings.

**b. No Passing Zones Two-Lane, Two-Way Roadways**

Passing zones shall be re-established in the locations existing prior to resurfacing unless otherwise noted in the Contract. No changes to the location of passing zones shall be done without the written approval of the Engineer. For periods not to exceed three (3) calendar days where interim skip centerlines are in place, no-passing zones shall be identified by using post or portable mounted DO NOT PASS regulatory signs (R4-1) twenty-four inches by thirty inches ( $24'' \times 30''$ ) at the beginning and at intervals not to exceed one-half ( $\leq 1/2$ ) mile within each no-passing zone. A post or portable mounted PASS WITH CARE regulatory sign (R4-2) twenty-four inches by thirty inches ( $24'' \times 30''$ ) shall be placed at the end of each no-passing zone. Post mounted signs shall be placed in accordance with the MUTCD. Portable signs shall be secured in such a manner to prevent misalignment and minimize the possibility of being blown over by weather conditions or traffic.

On new location projects and on projects where either horizontal or vertical alignments has been modified; the location of No-Passing Zones will be identified by the Engineer.

**c. Edge lines**

• Bituminous Surface Treatment Paving

Edge lines will not be required on intermediate surfaces (including asphaltic concrete leveling for bituminous surface treatment paving) that are in use for a period of less than sixty ( $<60$ ) calendar days except at bridge approaches, on lane transitions, lane shifts, and in such other areas as determined by the Engineer. On the final surface, edge lines shall be placed within thirty ( $\leq 30$ ) calendar days of the time that the final surface was placed.

• All Other Types of Pavement

Edge lines will not be required on intermediate surfaces that are in use for a period of less than thirty (<30) calendar days except at bridge approaches, on lane transitions, lane shifts, and in such other areas as determined by the Engineer. On the final surface, edge lines shall be placed within fourteen ( $\leq 14$ ) calendar days of the time that the surface was placed.

**2. Multi-Lane Highways – With No Paved Shoulder(s) or Paved Shoulder(s) Four Feet or Less ( $\leq 4'$ )**

**a. Undivided Highways (Includes Paved Center Turn Lane)**

- Centerlines and No-Passing Barrier-Full Pattern centerlines and no-passing barriers shall be restored before opening to traffic.
- Lane lines- Interim skip (broken) stripe as described in Subsection 150.3.10.D.1.a. may be used for periods not to exceed three ( $\leq 3$ ) calendar days. Skip lines are not permitted in lane shift areas. Solid lines shall be used.
- Edge lines- Edge lines shall be placed on intermediate and final surfaces within three (3) calendar days of obliteration.

**b. Divided Highways (Grass or Raised Median)**

- Lane lines- Full pattern skip stripe shall be restored before opening to traffic. Skip lines are not permitted in lane shift areas. Solid lines shall be required.
- Centerline/Edge line- Solid lines shall be placed on intermediate and final surfaces within three calendar days of obliteration.

**3. Limited Access Roadways and Roadways with Paved Shoulders Greater Than Four Feet ( $> 4'$ )**

**a. Same as Subsection 150.3.10.D.2 except as noted in (b) below.**

**b. Edge lines-**

- Asphaltic Concrete Pavement- Edge lines shall be placed on intermediate and final surfaces prior to opening to traffic.
- Portland Cement Concrete Pavement- Edge lines shall be placed on any surface open to traffic no later than one calendar day after work is completed on a section of roadway. All water and residue shall be removed prior to daily striping.

**4. Ramps for Multi-Lane Divided Highways**

A minimum of one solid line edge stripe shall be placed on any intermediate surface of a ramp prior to opening the ramp to traffic. The other edge stripe may be omitted for a maximum period of three (3) calendar days on an intermediate surface. Appropriate channelization devices shall be spaced at a maximum of twenty-five feet (25') intervals until the other stripe has been installed.

The final surface shall have both stripes placed prior to opening the ramp to traffic.

**5. Miscellaneous Pavement Markings**

**a. Final Surface**

School zones, railroads, symbols, words, arrows, and other similar markings shall be placed on final surfaces conforming to [Section 652](#) within fourteen (14) calendar days of completion of the final surface. Final markings shall conform to the type of pay item in the Plans. When no pay item exists in the Plans the final markings shall conform to [Section 652](#) for painted markings.

**b. Intermediate Surface**

Intermediate surfaces that will be in use for more than forty-five (45) calendar days shall have the miscellaneous pavement markings installed to conform to the requirement of [Section 652](#). Under Subsection 150.6, Special Conditions, or as directed by the Engineer these markings may be eliminated.

**c. Stop Line**

All stop signs and traffic signals shall have temporary twelve inch (12") stop lines placed in accordance with [MUTCD \(3B. 19\)](#) on all surfaces prior to opening to traffic. Temporary tape may be used.

**150.3.11 Differences in Elevations Between Travel Lanes and Shoulders**

All time frames and requirements may be changed with the Engineer's approval.

**A. Differences in Elevations**

Difference in elevations due to construction between travel lanes and/or shoulders within the clear zone should be limited to the following:

1. Difference of two inches ( $\leq 2''$ ) or less between adjacent travel lanes should remain for a maximum period of fourteen (14) calendar days.
2. Difference of two inches ( $\leq 2''$ ) or less between adjacent travel lane and paved shoulder should remain for a maximum of thirty (30) calendar days. Traffic control devices shall be in accordance with [Detail 150-G](#).
3. Difference of greater than two inches ( $> 2''$ ) is permitted for continuous operations. Traffic control devices shall be in accordance with [Detail 150-E](#).
4. Difference of greater than two inches ( $> 2''$ ) between travel lanes and/or shoulders for non-continuous operations will not be allowed for more than a twenty-four (24) hour period. For the first twenty-four (24) hours, traffic control shall be in accordance with [Detail 150-E](#). After twenty-four (24) hours the section should be healed according to [Detail 150 – H](#). This condition can exist for a maximum sixty (60) calendar days.
  - a. A single length of area that does not exceed 1000 feet total length may be left open as a startup area for periods not to exceed forty-eight (48) hours provided the Contractor can demonstrate the ability to complete the Work in a proficient manner. Prior approval of the Engineer shall be obtained before any startup area may be allowed.
  - b. For cement stabilized base, work adjacent to the travel lane and/or shoulders shall be healed as per [Detail 150-H](#) within forty-eight (48) hours after the seven (7) calendar day curing period is complete for each section placed. During the placement and curing period, traffic control shall be in accordance [Detail 150 E](#).

Failure to meet these requirements shall be considered as non-performance of Work under [Subsection 150.7.01](#).

## B. Healed Section

Healed section and traffic control devices should be placed in accordance with Detail 150-H. If crushed stone materials are used to provide a healed section no separate payment will be made for the material used to heal any section. The Contractor may submit a plan to utilize existing pay items for crushed stone provided the plan clearly demonstrates that the materials used to heal an area will be incorporated into the Work with minimal waste. Handling and hauling of any crushed stone used to heal shall be kept to a minimum. The Engineer shall determine if the crushed stone used to heal meets the Specifications for gradation and quality when the material is placed in the final location.

## C. Emergency Situations

Inclement weather, traffic accidents, and other events beyond the control of the Contractor may prevent the Work from being completed as required above. The Contractor shall notify the Engineer in writing stating the conditions and reasons that have prevented the Contractor from complying with the time limitations. The Contractor shall also outline a plan detailing immediate steps to complete the Work. Failure to correct these conditions on the first calendar day that conditions will allow corrective work shall be considered as non-performance of Work under Subsection 150.7.01.

## D. Plating

Plating for drainage structures, utility facilities, etc. is prohibited on the interstates. Plating on State Routes and secondary roads will require the prior approval of the project Engineer. Steel plates shall not be used on highways with a posted speed greater than forty-five (45) mph. The plate shall completely cover the pavement cut or excavation. The plate shall be adequately secured and shall provide a safe and reasonable transition to the adjoining roadway surface. An asphalt wedge can be used to provide a smooth transition over the plate(s). Temporary traffic control warning signs W8-24 shall be posted in advance warning motorist about plates in roadway in accordance with the MUTCD. Plating should not remain in place for more than four (4) calendar days.

## E. Asphaltic Concrete Resurfacing Projects

### 1. Shoulder Construction Included as a Part of the Contract

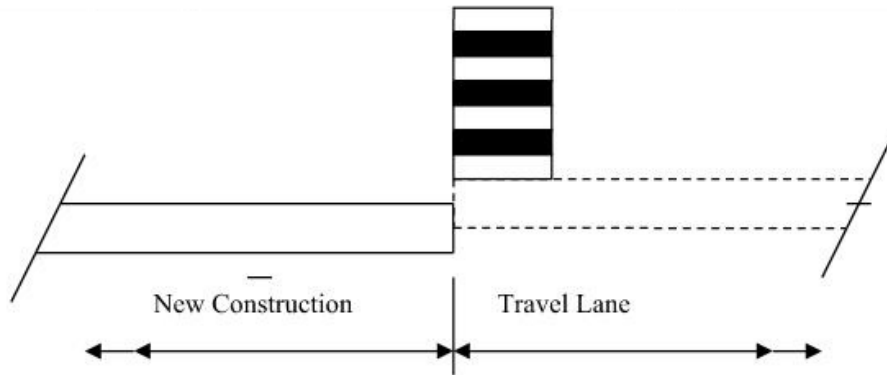
When the placement of asphaltic concrete materials creates a difference in elevation greater than two inches (> 2") between the earth shoulder (grassed or un-grassed) and the edge of travel lane or between the earth shoulder and a paved shoulder that is less than four feet (< 4') in width, the Contractor shall place and maintain drums in accordance with the requirements of Subsection 150.2.04.B.3. When the edge of the paved surface is tapered with a safety edge, drums may be spaced at two (2) times the speed limit in MPH. Drums shall remain in place and be maintained until the difference in elevation has been eliminated by the placement of the appropriate shoulder materials.

### 2. Shoulder Construction Not Included as a Part of the Contract

When the placement of asphaltic concrete materials creates a difference in elevation greater than two inches (> 2") between the earth shoulder (grassed or un-grassed) and the edge of travel lane or between the earth shoulder and a paved shoulder that is less than four feet (< 4') in width, the Contractor shall notify the Engineer, in writing, when the resurfacing work including all corrective list items has been completed.

Drums spaced at twenty foot (20') intervals. **Note:** If the travel way width is reduced to less than ten feet (< 10') by the use of drums, vertical panels shall be used in lieu of drums.

Location of drums when Elevation Difference exceeds four inches (> 4")

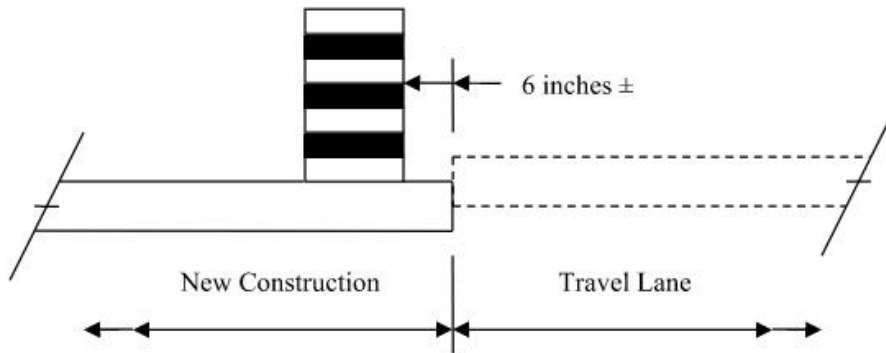


ELEVATION DIFFERENCE GREATER THAN FOUR INCHES (> 4")

DETAIL 150-E

Drums spaced at forty foot (40') intervals.

Location of drums when Elevation Difference is greater than two inches (> 2") to four inches (4")

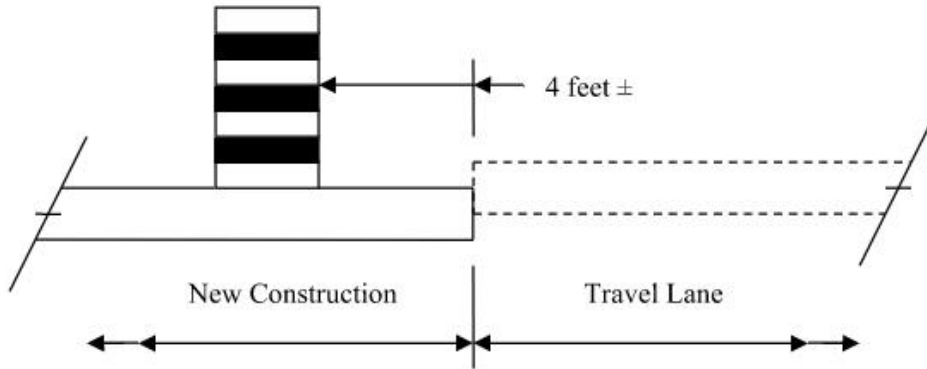


ELEVATION DIFFERENCE GREATER THAN TWO INCHES (> 2") TO FOUR INCHES (4")

DETAIL 150-F

Drums spaced at eighty foot (80') intervals.

Location of drums when Elevation Difference is two inches ( $\leq 2''$ ) or less.



ELEVATION DIFFERENCE OF TWO INCHES ( $\leq 2''$ ) OR LESS

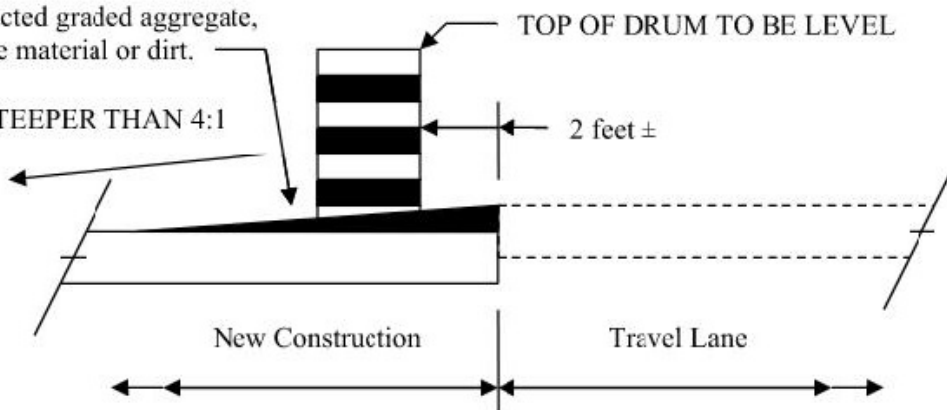
DETAIL 150-G

Location of drums immediately after completion of healed sections spaced at 40 foot (40') intervals

Healed Section

Compacted graded aggregate, subbase material or dirt.

NO STEEPER THAN 4:1



HEALED SECTION

DETAIL 150-H

## 150.3.12 Work Zone Law Enforcement

Work zone law enforcement consists of utilizing a uniformed law enforcement officer equipped with patrol vehicle and blue flashing lights to enforce traffic laws in construction work zones and the administration of this service. Payment for work zone law enforcement will be made only for the utilization in work zones during lane closures, traffic pacing, or other activities that occur within travel lanes. The Contractor will be responsible for negotiating a rate of reimbursement and making reimbursement to that law enforcement agency.

The Contractor will be responsible for coordinating and scheduling the utilization of the work zone law enforcement. The Engineer may require the use of work zone law enforcement at specific times and locations.

Work zone law enforcement will be required in all work zones during lane closures, traffic pacing, or other activities that occur within travel lanes on the interstate.

## 150.4 Measurement

### 150.4.01 Traffic Control Items

#### A. Traffic Control

When listed as a pay item in the Proposal, payment will be made at the lump sum price bid, which will include all traffic control not paid for separately, and will be paid as follows:

When the first Construction Report is submitted, a payment of twenty-five percent (25%) of the lump sum price will be made. For each progress payment thereafter, the total of the Project percent complete shown on the last pay statement plus twenty-five percent (25%) will be paid (less previous payments), not to exceed one hundred percent (100%).

When no payment item for Traffic Control-Lump Sum is shown in the Proposal, all of the requirements of Section 150 and the Temporary Traffic Control Plan shall be in full force and effect. The cost of complying with these requirements will not be paid for separately but shall be included in the overall bid submittal.

#### B. Changeable Message Sign, Portable

Portable changeable message sign will be measured as specified in [Section 632](#).

#### C. Flashing Beacon Assembly

Flashing beacon assemblies will be measured as specified in [Section 647](#).

#### D. Pavement Markings

Pavement markings will be measured as specified in Section 150.

#### E. Portable Impact Attenuators

Each portable impact attenuator will be measured by the unit/array which shall include all material components, hardware, incidentals, labor, site preparation, and maintenance, including spare parts recommended by the manufacturer for repairing accident damage. Each unit will be measured only once regardless of the number of locations installed, moves required, or number of repairs necessary because of traffic damage. Upon completion of the project, the units shall be removed and retained by the Contractor.

## **F. Signs**

When shown as a pay item in the Contract, interim special guide signs will be paid for as listed below. All other regulatory, warning, and guide signs, as required by the Contract, will be paid for under Traffic Control Lump Sum or included in the overall bid submitted.

1. Interim ground mounted or interim overhead special guide signs will be measured for payment by the square foot. This payment shall be full compensation for furnishing the signs, including supports as required, erecting, illuminating overhead signs, maintaining, removing, re-erecting, and final removal from the Project. Payment will be made only one time regardless of the number of moves required.
2. Remove and reset existing special guide signs, ground mount or overhead, complete, in place, will be measured for payment per each. Payment will be made only one time regardless of the number of moves required.
3. Modify special guide signs, ground mount or overhead, will be measured for payment by the square foot. The area measured shall include only that portion of the sign modified. Payment shall include materials, removal from posts or supports when necessary, and remounting as required.

## **G. Temporary Audible Information Device**

Temporary audible information devices are measured as the actual number furnished and installed in accordance with the manufacturer's recommendations, which shall include all necessary materials, equipment, labor, site preparation, maintenance, and removal. Each temporary audible information device will be paid for only one time regardless of the number of times it's reused during the duration of the Work. These devices shall remain the property of the Contractor.

## **H. Temporary Barrier**

Temporary barrier shall be measured as specified in [Sections 620](#).

## **I. Temporary Curb Cut Wheelchair Ramps**

Temporary curb cut wheelchair ramps are measured as the actual number formed and poured, complete and accepted, which shall include all necessary materials, equipment, labor, site preparation, maintenance, and removal. No additional payment will be made for sawing existing sidewalk and removal and disposal of removed material for temporary wheelchair ramp construction. No additional payment will be made for constructing the detectable warning surface.

## **J. Temporary Guardrail Anchorage, Type 12**

Temporary guardrail anchorage- Type 12 will be measured by each assembly, complete in place and accepted according to the details shown in the Plans, which shall also include the additional guardrail and appurtenances necessary for transition and connection to temporary concrete barrier. Payment shall include all necessary materials, equipment, labor, site preparation, maintenance, and removal.

## **K. Temporary Walkways with Detectable Edging**

Temporary walkways with detectable edging will be measured in linear feet (meters), complete in place and accepted, which shall include all necessary materials, equipment, labor, site preparation, temporary pipes, passing spaces, maintenance, and removal. Excavation and backfill are not measured separately for payment. No payment will be made for temporary walkways where existing pavements or existing edging (that meets the requirements of MUTCD) are utilized for the temporary walkway. Payment for temporary detectable edging, including approved barriers and channelizing devices, installed on existing pavement shall be included in Traffic Control-Lump Sum.

## L. Traffic Signal Installation- Temporary

Temporary traffic signal installation will be measured as specified in [Section 647](#).

## M. Work Zone Law Enforcement

When work zone law enforcement is shown as a pay item, work zone law enforcement will be measured for payment by the hour. The Contractor shall provide a daily work record containing the actual number of hours charged by the law enforcement officer. The daily work record shall be compiled on a form provided by the Department, signed by the law enforcement officer, signed by the Contractor's Worksite Traffic Control Supervisor attesting that the law enforcement was utilized during the time recorded, and then submitted to the Engineer.

Work zone law enforcement will be measured for payment by the hour up to the maximum number of hours included in the Contract. The Engineer may at their discretion increase the maximum number of hours.

Payment shall be full compensation for reimbursing the law enforcement agency and for all cost incurred by the Contractor in coordinating, scheduling, and administering the item work zone law enforcement.

If no work zone law enforcement pay item is included in the Contract, then all work zone law enforcement cost shall be included in Traffic Control – Lump Sum.

## 150.5 Reserved

## 150.6 Special Conditions

Special Conditions, if used, will be included elsewhere in the Contract.

## 150.7 Payment

When shown in the Schedule of Items in the Proposal, the following items will be paid for separately. Payment will be made under:

<b>Item No. 150</b>	Traffic control -	Lump Sum
<b>Item No. 150</b>	Traffic control, solid traffic stripe __ inch, (color)	Per linear mile
<b>Item No. 150</b>	Traffic control, skip traffic stripe __ Inch, (color)	Per linear mile
<b>Item No. 150</b>	Traffic control, solid traffic stripe, thermoplastic 24 inch, color	Per linear mile
<b>Item No. 150</b>	Traffic control, raised pavement markers –all types	Per each
<b>Item No. 150</b>	Remove and reset, existing special guide signs, overhead, complete-in-place	Per each
<b>Item No. 150</b>	Temporary walkways with detectable edging	Per linear foot
<b>Item No. 150</b>	Temporary curb cut wheelchair ramps	Per each
<b>Item No. 150</b>	Temporary audible information device	Per each
<b>Item No. 150</b>	Work Zone Law Enforcement	Per hour

## 150.7.01 Enforcement and Adjustments

The safe passage of pedestrians and traffic through and around the temporary traffic control zone, while minimizing confusion and disruption to traffic flow, shall have priority over all other Contractor activities. Continued failure of the Contractor to comply with the requirements of Section 150 - Traffic Control will result in non-refundable deductions of monies from the Contract as shown in this Subsection for non-performance of Work.

Failure of the Contractor to comply with this Specification shall be reason for the Engineer suspending all other work on the Project except erosion control and traffic control, taking corrective action as specified in [Section 105](#), and/or withholding payment of monies due to the Contractor for any work on the Project until traffic control deficiencies are corrected. These other actions shall be in addition to the deductions for non-performance of traffic control.

<b>SCHEDULE OF DEDUCTIONS FOR EACH CALENDAR DAY OF DEFICIENCIES OF TRAFFIC CONTROL INSTALLATION AND/OR MAINTENANCE</b>		
<b>ORIGINAL TOTAL CONTRACT AMOUNT</b>		
<b>From More Than</b>	<b>To and Including</b>	<b>Daily Charge</b>
\$0	\$100,000	\$250
\$100,000	\$1,000,000	\$650
\$1,000,000	\$5,000,000	\$1,300
\$5,000,000	\$20,000,000	\$2,000
\$20,000,000	\$40,000,000	\$2,600
\$40,000,000	\$-----	\$4,000

Town of Braselton  
Sidewalk & Drainage Repairs

2025



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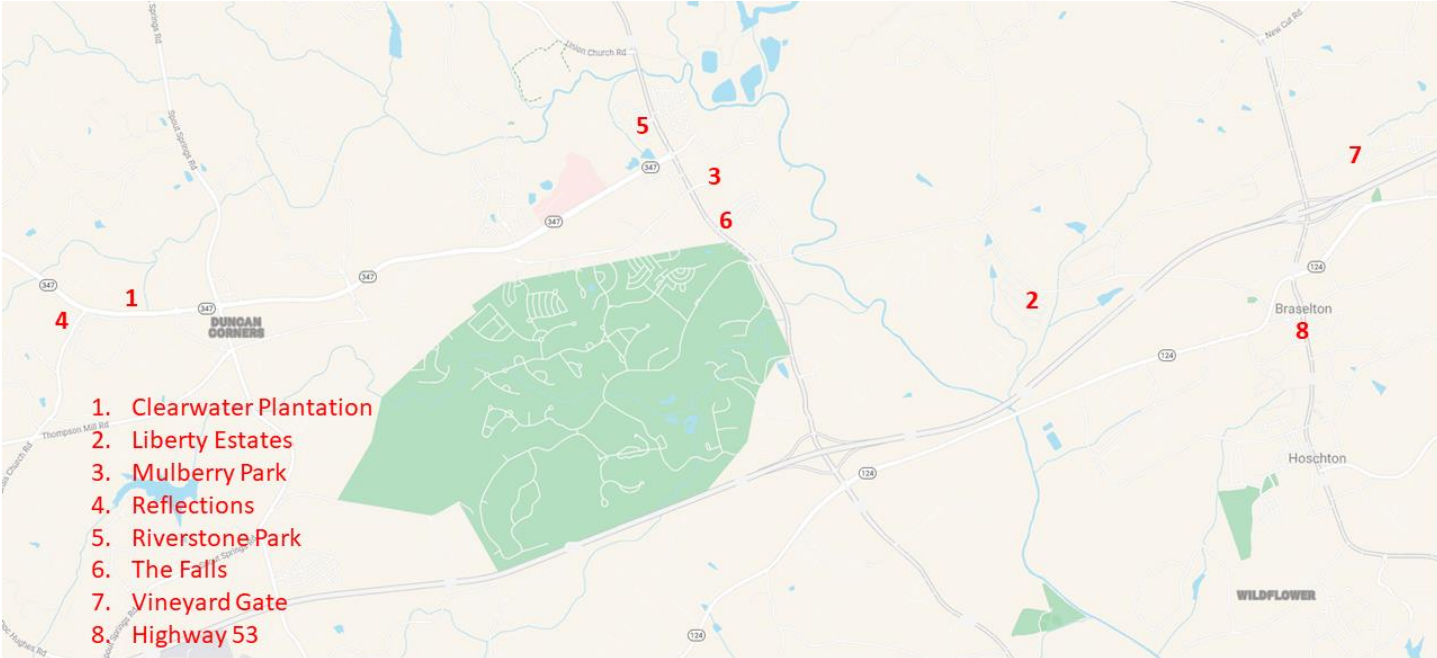
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# Location Map



# **Clearwater Plantation**

## **2436 Commissioner Cove**

Approximately 20 LF of damaged portions of the existing curb and gutter are to be removed, disposed of, and replaced. An approximately 3' x 3' section of concrete should be added to the right of the catch basin to prevent future voids. This area should be backfilled, stabilized, and sodded.



**Figure 1.1** 2436 Commissioner Cove Street View – Damaged Curb and Gutter



**Figure 1.2** 2436 Commissioner Cove – Void at Catch Basin; Location of Proposed Concrete



**Figure 1.3** 2436 Commissioner Cove – Void at Catch Basin

## 2437 Commissioner Cove

The damaged portion of the existing sidewalk between driveways at 2437 Commissioner Cove and 2433 Commissioner Cove is to be removed, disposed of, and replaced.



**Figure 1.4** 2437 Commissioner Cove Street View

## 2322 Council Lane

The sidewalk section to the right of the driveway at 2322 Council Lane is humped and must be removed and replaced.



**Figure 1.5** 2322 Council Lane Street View

## 2073 Democracy Drive

Settled and broken portions of existing sidewalk and curb left of the 2073 Democracy Drive driveway are to be removed, disposed of, and replaced.



**Figure 1.6** 2073 Democracy Drive – Settled Sidewalk



**Figure 1.7** 2073 Democracy Drive – Broken Curb

## 2207 Democracy Drive

The voids between the sidewalk and catch basin at 2207 Democracy Drive requires it to be backfilled, stabilized, and sodded.



**Figure 1.8** 2207 Democracy – Void at Catch Basin

## 2207-2213 Democracy Drive

Curb is damaged in several spots between 2207 Democracy Drive and 2213 Democracy Drive and requires curb and gutter to be removed, disposed of, and replaced.



Figure 1.9 2207-2213 Democracy Drive Street View



Figure 1.10 2207-2213 Democracy Drive Street View

## 2103 Independence Lane

Existing curb and gutter at each side of the catch basin at 2103 Independence Lane requires removal, disposal, and replacement to match size and shape of adjacent curb and gutter.



Figure 1.11 2103 Independence Lane Street View

## 2105 Independence Lane

The settled portion of existing sidewalk at the corner of Independence Lane and Democracy Drive is to be removed, disposed of, and replaced. Adjust the existing valve cover to be flush with new sidewalk.



Figure 1.12 2105 Independence Lane

## 2135 Independence Lane

Remove, dispose of, and replace settled portions of sidewalk at 2135 Independence Lane.



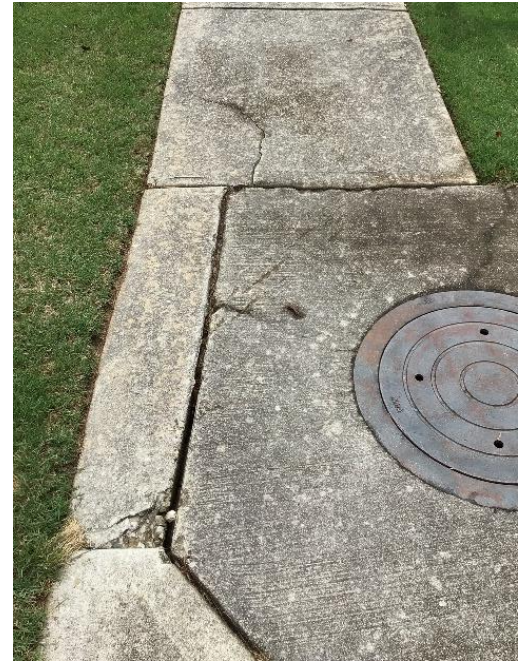
Figure 1.13 2135 Independence Lane

## 2144 Independence Lane

Remove, dispose of, and replace existing portions of damaged sidewalk and curb and gutter at 2144 Independence Lane



**Figure 1.14** 2144 Independence Lane – Damaged Curb



**Figure 1.15** 2144 Independence Lane – Damaged Sidewalk

## 2824 Legislative Lane

The raised portion of existing sidewalk to the right of 2824 Legislative Lane is to be removed, disposed of, and replaced.



**Figure 1.16** 2824 Legislative Lane Street View

## 2955 Legislative Lane

Damaged sidewalk at 2955 Legislative Lane shall be removed, disposed of, and replaced.



**Figure 1.17** 2955 Legislative Lane – Sidewalk damage

## Legislative Lane at Senator Court

The void beside the catch basin at the southeast corner of Legislative Lane and Senator Court shall be backfilled, stabilized, and sodded.



**Figure 1.18** Legislative Lane at Senator Court

# **Liberty Estates**

## **838 New Liberty Way**

Raised portion of existing sidewalk to left of the 838 Liberty Way driveway is to be removed, disposed of, and replaced.



**Figure 2.1** 5904 838 New Liberty Way Street View

## **852 New Liberty Way**

Settled sidewalk beside the catch basin at 852 New Liberty Way shall be removed, disposed of, and replaced. The area should be backfilled, stabilized, and sodded.



**Figure 2.2** 852 New Liberty Way – Settled Sidewalk



**Figure 2.3** 852 New Liberty Way – Area to be Backfilled

## **Mulberry Park**

### **2641 Bald Cypress Drive**

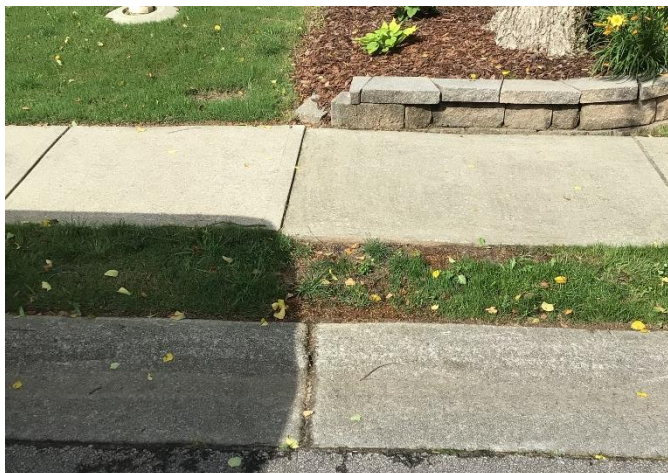
Remove, dispose of, and replace settled sidewalk around the catch basin at 2641 Bald Cypress.



**Figure 3.1** 2641 Bald Cypress Drive

### **2651 Bald Cypress Drive**

Remove, dispose of, and replace sidewalk at 2651 Bald Cypress. Remove tree roots as needed to prevent future damage. The area should be backfilled, stabilized, and sodded.



**Figure 3.2** 2651 Bald Cypress Drive

## 6833 Grand Hickory Drive

Remove, dispose of, and replace damaged sidewalk to the right of the driveway at 6833 Grand Hickory Drive.



**Figure 3.3** 6833 Grand Hickory Drive

## Grand Hickory Drive at Bald Cypress Drive

Damaged ramp and portions of existing rolled curb and gutter along the north corner of the intersection of Grand Hickory Drive and Bald Cypress are to be removed, disposed of, and replaced.



**Figure 3.4** Grand Hickory Drive at Bald Cypress Drive – Ramp



**Figure 3.5** Grand Hickory Drive at Bald Cypress Drive – Curb and Gutter

## 7071 Silk Tree Pointe

Remove, dispose of, and replace damaged sidewalk at 7071 Silk Tree Pointe.



Figure 3.6 7071 Silk Tree Pointe

## 7101 Silk Tree Pointe

Settled portions of existing sidewalk around the catch basin at 7101 Silk Tree Pointe are to be removed, disposed of, and replaced.



Figure 3.7 7101 Silk Tree Pointe

## 7120 Silk Tree Pointe

The existing ramp and curb and gutter are damaged at 7120 Silk Tree Pointe. Ramp and a portion of the curb and gutter on each side of the ramp are to be removed, disposed of, and replaced.



Figure 3.8 7120 Silk Tree Pointe

## 7191 Silk Tree Pointe

Remove, dispose of, and replace raised sidewalk at 7191 Silk Tree Pointe.



Figure 3.9 7191 Silk Tree Pointe

## 7210 Silk Tree Pointe

Settled portions of existing sidewalk around the catch basin at 7210 Silk Tree Pointe are to be removed, disposed of, and replaced.



**Figure 3.10** 7210 Silk Tree Pointe

## 7370 Silk Tree Pointe

The void between the sidewalk and catch basin at 7370 Silk Tree Pointe requires it to be backfilled, stabilized, and sodded. Remove, dispose of, and replace damaged curb and gutter at catch basin.



**Figure 3.11** 7370 Silk Tree Pointe – Void at Catch Basin



**Figure 3.12** 7370 Silk Tree Pointe – Curb and Gutter

## 7371 Silk Tree Pointe

Remove, dispose of, and replace damaged sidewalk and curb and gutter near catch basin at 7371 Silk Tree Pointe.



**Figure 3.13** 7371 Silk Tree Pointe – Curb and Gutter



**Figure 3.14** 7371 Silk Tree Pointe – Sidewalk

## 7581 Silk Tree Pointe

Sidewalk has settled around catch basin at 7581 Silk Tree Pointe and requires the settled sidewalk portions to be removed, disposed of, and replaced.



**Figure 3.15** 7581 Silk Tree Pointe

## 7700 Silk Tree Pointe

Corner of sidewalk above catch basin at 7700 Silk Tree Pointe is damaged and requires to be removed, disposed, and replaced.



**Figure 3.16** 7700 Silk Tree Pointe

## **Reflections**

### **2962 Climbing Rose Street**

Remove, dispose of, and replace broken curb at 2962 Climbing Rose Street.



**Figure 4.1** 2962 Climbing Rose Street

# **Riverstone Park**

## **5735 Berkshire Trace**

Remove, dispose of, and replace damaged curb and gutter and raised sidewalk at the driveway of 5735 Berkshire Trace.



**Figure 5.1** 5735 Berkshire Trace – Curb and Gutter



**Figure 5.2** 5735 Berkshire Trace – Sidewalk

## **5767 Berkshire Trace**

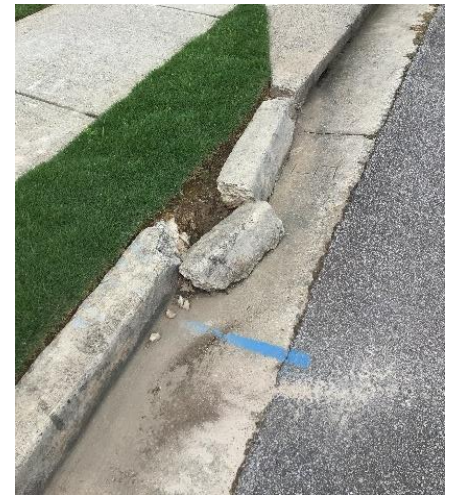
The driveway and sidewalk to the left of the driveway at 5767 Berkshire Trace is damaged and humped, respectively. Curb and gutter to the left of the catch basin is also damaged. All should be removed, disposed of, and replaced.



**Figure 5.3:** 5767 Berkshire Trace – Damaged Driveway



**Figure 5.4** 5767 Berkshire Trace – Raised Sidewalk



**Figure 5.5** 5763 Berkshire Trace – Damaged Curb and Gutter

## 6241 Harris Court

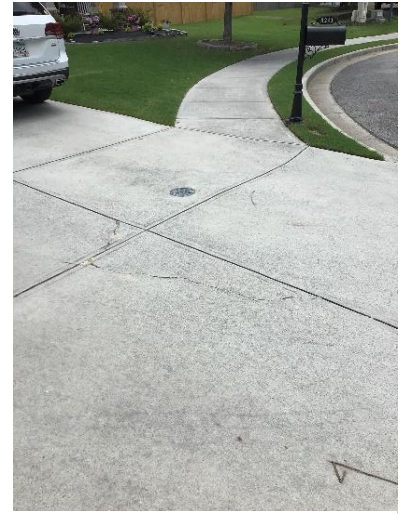
The sidewalk and driveway are cracked at 6241 Harris Court. This requires the damaged portions of the sidewalk and driveway to be removed, disposed of, and replaced.



**Figure 5.6** 6241 Harris Court



**Figure 5.7** 6241 Harris Court



**Figure 5.8** 6241 Harris Court

## 6317 Marcelina Court

Remove, dispose of, and replace damaged curb and gutter near the catch basin at 6317 Marcelina Court.



**Figure 5.9** 6317 Marcelina Court

## 5788 Riverview Parkway

Sidewalk has settled at the catch basin at 5788 Riverview Parkway and requires the settled portion of the sidewalk to be removed, disposed of, and replaced. The area should be backfilled, stabilized, and sodded.



**Figure 5.10** 5788 Riverstone Parkway

## 5805 Riverview Parkway

Remove, dispose of, and replace raised and settled sidewalk at 5805 Riverview Parkway. Remove tree roots as needed to prevent future damage. The area should be backfilled, stabilized, and sodded.



**Figure 5.11** 5805 Riverstone Parkway

## 6007 Riverview Parkway

Sidewalk is damaged at 6007 Riverview Parkway. The damaged portion is to be removed, disposed of, and replaced.



**Figure 5.12** 6007 Riverview Parkway

## 6225-6229 Riverview Parkway

There is sinkage around the drain box between 6225 Riverview Parkway and 6229 Riverview Parkway. This will require the voids to be backfilled, stabilized, and sodded.



**Figure 5.13** 6225-6229 Riverview Parkway – Drain Box and Voids



**Figure 5.14** 6225-6229 Riverview Parkway – Drain Box and Voids



**Figure 5.15** 6225-6229 Riverview Parkway – Voids

## 6237-6241 Riverview Parkway

There is sinkage around the drain box between 6225 Riverview Parkway and 6229 Riverview Parkway. This will require the voids to be backfilled, stabilized, and sodded.



**Figure 5.16** 6237-6241 Riverview Parkway – Drain Box and Voids



**Figure 5.17** 6237-6241 Riverview Parkway – Drain Box and Voids



**Figure 5.18** 6237-6241 Riverview Parkway – Voids

## Riverview Parkway at Highway 211

Remove, dispose of, and replace damaged curb and gutter at Riverstone Park exit onto Highway 211.



**Figure 5.19** Riverview Parkway at Highway 211

## Riverview Parkway – First Roundabout

Entering the roundabout from Highway 211, there is damaged curb and gutter, damaged sidewalk, and settled sidewalk at the first catch basin. Exiting the roundabout to Highway 211, there is damaged and raised sidewalk. All of these portions of concrete should be removed, disposed of, and replaced.



**Figure 5.20** Roundabout near Entrance – Damaged Curb and Gutter



**Figure 5.21** Roundabout near Entrance – Settled Sidewalk



**Figure 5.22** Roundabout near Entrance – Damaged Sidewalk



**Figure 5.23** Roundabout near Exit – Damaged Sidewalk



**Figure 5.24** Roundabout near Exit – Damaged Sidewalk

## Riverview Parkway – Second Roundabout

Sidewalk and ramps at the second roundabout connecting Riverview Parkway and Cloverfield Way are cracked and broken. These damaged portions of the sidewalk are to be removed, disposed of, and replaced.



**Figure 5.25** Riverview Parkway at Cloverfield Way Roundabout - Ramp



**Figure 5.26** Riverview Parkway at Cloverfield Way Roundabout - Ramp



**Figure 5.27** Riverview Parkway at Cloverfield Way Roundabout - Ramp



**Figure 5.28** Riverview Parkway at Cloverfield Way Roundabout - Sidewalk



**Figure 5.29** Riverview Parkway at Cloverfield Way Roundabout - Sidewalk

## 6354 Stonebridge Cove

Remove, dispose of, and replace damaged sidewalk at 6354 Stonebridge Cove.



Figure 5.30 6354 Stonebridge Cove

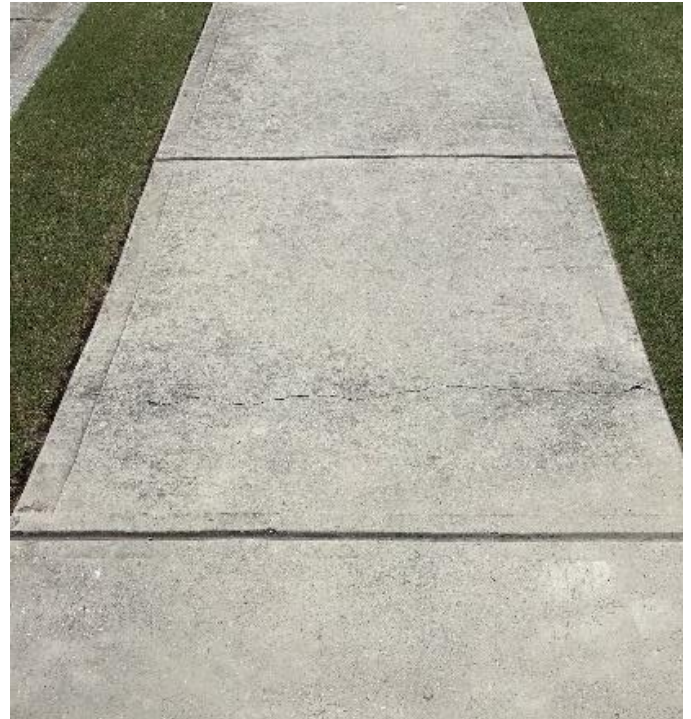


Figure 5.31 6354 Stonebridge Cove

## 6080 Summerall Circle

Remove, dispose of, and replace damaged curb and gutter and settled sidewalk at the catch basin at 6080 Summerall Circle.



Figure 5.32 6080 Summerall Circle - Curb



Figure 5.33 6080 Summerall Circle - Sidewalk

# Summerall Circle

Remove, dispose of, and replace damaged and settled sidewalk along Summerall Circle near the playground located by 6132 Summerall Circle.



Figure 5.34 Summerall Circle



Figure 5.35 Summerall Circle



Figure 5.36 Summerall Circle



Figure 5.37 Summerall Circle

# **The Falls**

## **1701 Ammons Fall Court**

The damaged portions of the existing rolled curb and gutter along Fisk Falls Drive, side of 1701 Ammons Falls Court, are to be removed, disposed of, and replaced. Sawcutting existing asphalt is required where asphalt must be removed for new curb and gutter installation.



**Figure 6.1** Fisk Falls Drive South Street View



**Figure 6.2** Fisk Falls Drive North Street View

## **Fisk Falls Drive & Auger Falls Drive**

Damaged and settled portions of sidewalk along the southwest corner of Fisk Falls Drive and Auger Falls Drive are to be removed, disposed of, and replaced, including 4' of treaded red concrete to match existing. Grading is required to bring proposed sidewalk to elevation of the catch basin and area should be backfilled, stabilized, and sodded.



**Figure 6.3** Fisk Falls Drive Street View



**Figure 6.4** Auger Falls Drive Street View

## Fisk Falls Drive & Madrid Falls Drive

The damaged ramp and portions of rolled curb and gutter along the south corner of the intersection of Fisk Falls Drive and Madrid Falls Drive are to be removed, disposed of, and replaced.



**Figure 6.5** Fisk Falls Drive and Madrid Falls Drive Intersection Northeast Street View



**Figure 6.6** Fisk Falls Drive and Madrid Falls Drive Intersection Southwest Street View

## 2441 Fisk Falls Drive

To combat the trip hazard, the sidewalk section to the right of the driveway at 2441 Fisk Falls Drive must be removed, disposed of, and replaced.



**Figure 6.7** 2441 Fisk Falls Drive Street View

## 1918 Henderson Falls Way

To combat the trip hazard, the sidewalk section to the left of the driveway at 1918 Henderson Falls Way must be removed, disposed of, and replaced. Adjust the existing valve cover to be flush with new sidewalk.



**Figure 6.8** 1918 Henderson Falls Way Street View

## 1420 Kilchis Falls Way

To combat the trip hazard, the sidewalk section between 1418 Kilchis Falls Way and 1420 Kilchis Falls Way must be removed, disposed of, and replaced. The proposed sidewalk should be poured to back of catch basin.



**Figure 6.9** 1420 Kilchis Falls Way Street View

## 2318 Loowit Falls Drive

To combat the trip hazard, the sidewalk section to the right of the driveway at 2318 Loowit Falls Drive must be removed, disposed of, and replaced. The proposed sidewalk should be poured to back of catch basin.



**Figure 6.10** 2318 Loowit Falls Drive Street View

## 1318 Loowit Falls Way

The damaged and settled portions of the existing rolled curb and gutter at 1318 Loowit Falls Way are to be removed, disposed of, and replaced.



**Figure 6.11** 1318 Loowit Falls Way Street View

## 1327 Loowit Falls Way

Settled portions of existing sidewalk at 1327 Loowit Falls Way are to be removed, disposed of, and replaced. Grading is required to bring proposed sidewalk to elevation of the catch basin and area should be backfilled, stabilized, and sodded.



Figure 6.12 1327 Loowit Falls Way Street View



Figure 6.13 1327 Loowit Falls Way Street View

## 1392 Loowit Falls Way

To combat the trip hazard, the sidewalk section to the right of the driveway at 1392 Loowit Falls Way must be removed, disposed of, and replaced.



Figure 6.14 1392 Loowit Falls Way Street View

## 1841-1845 Madrid Falls Drive

Entire concrete apron at 1841-1845 Madrid Falls Drive is to be removed, disposed of, and replaced, as well as damaged portions of curb on each side of the apron.



**Figure 6.15** 1841-1845 Madrid Falls Street View

## 1600 Sahale Falls Drive

At a catch basin between 1600 and 1602 Sahale Falls Drive, damaged portions of the catch basin top and rolled curb and gutter are to be removed, disposed of, and replaced. Grouting inside structure is required where scaling has occurred.



**Figure 6.16** 1600 Sahale Falls Drive Street View – Left of Catch Basin



**Figure 6.17** 1600 Sahale Falls Drive Street View – Right of Catch Basin



**Figure 6.18** 1600 Sahale Falls Drive – Interior View of Structure

## 1609 Sahale Falls Drive

Settled portions of existing sidewalk at 1327 Loowit Falls Way are to be removed, disposed of, and replaced. Grading is required to bring proposed sidewalk to elevation of the catch basin and area should be backfilled, stabilized, and sodded.



Figure 6.19 1609 Sahale Falls Drive Street View

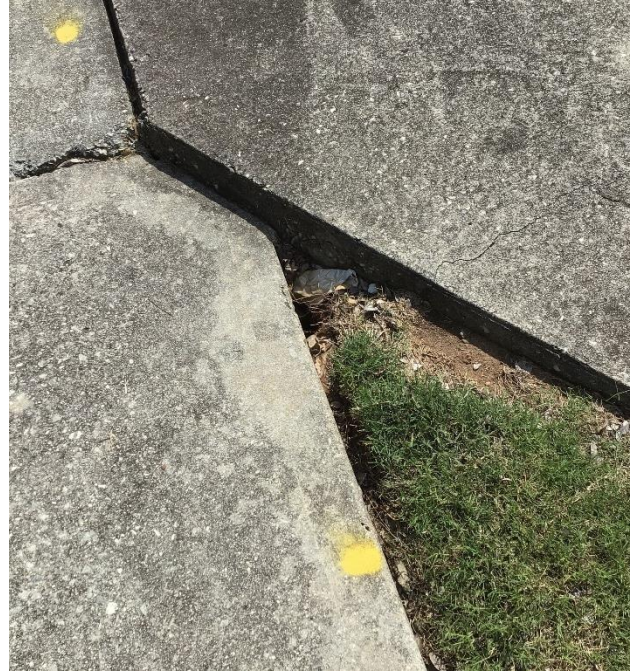


Figure 6.20 1609 Sahale Falls Drive Street View

## 901 Wallace Falls Drive

Damaged ramp and portions of existing rolled curb and gutter along the south corner of the intersection of Wallace Falls Drive and Fisk Falls Drive are to be removed, disposed of, and replaced.



Figure 6.21 901 Wallace Falls Drive Street View



Figure 6.22 901 Wallace Falls Drive Street View

## 917 Wallace Falls Drive

To combat the trip hazard, the sidewalk section between 917 Wallace Falls Drive and 919 Wallace Falls Drive must be removed and replaced.



Figure 6.23 917 Wallace Falls Drive Street View

## 919 Wallace Falls Drive

To combat the trip hazard, the sidewalk section to the left of the 919 Wallace Falls Drive driveway must be removed and replaced.



Figure 6.24 919 Wallace Falls Drive Street View

## 920 Wallace Falls Drive

The catch basin at 920 Wallace Falls Drive requires a concrete patch on the front of the catch basin lid.



**Figure 6.25** 920 Wallace Falls Drive Street View

## 927 Wallace Falls Drive

To combat the trip hazard, the sidewalk section to the left of the 919 Wallace Falls Drive driveway must be removed and replaced.



**Figure 6.26** 927 Wallace Falls Drive Street View



**Figure 6.27** 927 Wallace Falls Drive Street View

# **Vineyard Gate**

## **211 Reisling Drive**

To combat the trip hazard, the sidewalk section to the left of the 211 Reisling Drive driveway must be removed and replaced. Any tree roots found under demolished sidewalk should be removed.



**Figure 7.1** 211 Reisling Drive Street View



**Figure 7.2** 211 Reisling Drive Street View

## **251 Reisling Drive**

To combat the trip hazard, the sidewalk section to the left of the 251 Reisling Drive driveway must be removed and replaced.



**Figure 7.3** 251 Reisling Drive Street View



**Figure 7.4** 251 Reisling Drive Street View

## 265 Reisling Drive

To combat the trip hazard, the sidewalk section to the right of 265 Reisling Drive, approaching the cul-de-sac, must be removed and replaced. This area will need to be backfilled, stabilized, and sodded.



Figure 7.5 265 Reisling Drive Street View



Figure 7.6 265 Reisling Drive Street View

## 424 Reisling Drive

To combat the trip hazard, the sidewalk section to the left of the 211 Reisling Drive driveway must be removed and replaced. This area will need to be backfilled, stabilized, and sodded.



Figure 7.7 424 Reisling Drive Street View



Figure 7.8 424 Reisling Drive Street View

# **Highway 53**

## **Davis Street - Mill**

Remove, dispose of, and replace damaged sidewalk at the southwest intersection of Davis Street and Highway 53. Proposed sidewalk shall match exposed aggregate finish of existing.



**Figure 8.1** Highway 53 at Davis Street



**Figure 8.2** Highway 53 at Davis Street

## **Davis Street – Local Station**

Remove, dispose of, and replace damaged sidewalk near the northwest intersection of Davis Street and Highway 53. Proposed sidewalk shall match exposed aggregate finish of existing.



**Figure 8.3** Highway 53 at Davis Street

## 4986 Highway 53

At the upper parking lot of Braselton Planning and Utilities, the stair landing has settled. Remove, dispose of, and replace the stair landing. Sawcutting is required, and the existing building, stairs, and railings are to be protected.



**Figure 8.4** 4983 Highway 53 – Stair Landing