

# STATE OF TENNESSEE

# SHELBY COUNTY

TDOT P.I.N.: 115241.02  
 FEDERAL PROJECT NO.: CM-9700(40)  
 STATE PROJECT NO.: 79947-1415-54  
 LOCALLY MANAGED PROJECT

## CITY OF MEMPHIS

- BROOKS RD. AT STARNES CV.
- AMERICAN WAY AT LAMAR AVE.
- SHELBY DR. AT MENDENHALL RD.
- SUMMER AVE. AT GRAHAM ST.

## TOWN OF COLLIERVILLE

- FRANK RD. AT HOUSTON LEVEE RD.
- STATE ROUTE 385 AT HOUSTON LEVEE
- STATE ROUTE 385 AT BYHALIA RD.
- SHELBY DR. AT US 72
- MERCHANTS PARK CR. AT HOUSTON LEVEE RD.

## CITY OF GERMANTOWN

- WINCHESTER RD. AT FOREST HILL-IRENE RD.
- POPLAR AVE. AT JOHNSON RD.
- POPLAR AVE. AT VILLAGE SHOPS DR.

## CITY OF BARTLETT

- US 70 AT GERMANTOWN RD.
- BROTHER BLVD. AT APPLING RD.

## CITY OF MILLINGTON

- EASLEY ST. AT CHURCH ST.

## SHELBY COUNTY

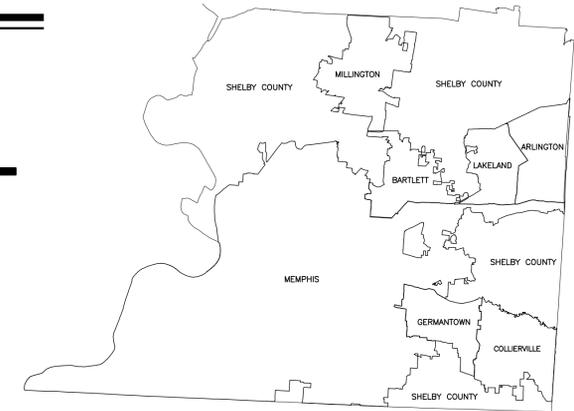
- SHELBY DR. AT HACKS CROSS RD.

## DIVISION OF PUBLIC WORKS

## PLAN FOR PROPOSED IMPROVEMENTS

# CONGESTION MANAGEMENT PROGRAM

## DETECTION UPGRADE SET #1



LOCATION MAP  
NOT TO SCALE

### SCOPE OF WORK

CONSTRUCTION INCLUDES INSTALLATION OF VIDEO VEHICLE DETECTION AND EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THE INTERSECTIONS LISTED TO THE LEFT.

### NOTES:

PROPOSALS MAY BE REJECTED BY THE COUNTY ENGINEER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ANY UTILITY COMPANY WHICH MAINTAINS A UTILITY LINE WITHIN THE BOUNDARIES OF THE PROJECT PRIOR TO THE INITIATION OF ANY CONSTRUCTION ON THE PROJECT OR IN THE STREETS BORDERING THE PROJECT. THE CONTRACTOR SHALL ALSO ASSUME RESPONSIBILITY FOR ALL DAMAGE TO ANY UTILITY LINES, WHETHER SHOWN ON THE CONSTRUCTION PLANS OR NOT, DURING WORK ON THE PROJECT.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

HON. MARK H. LUTTRELL, JR, MAYOR

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

MR. TOM NEEDHAM, P.E.  
SHELBY COUNTY DIRECTOR OF PUBLIC WORKS  
SHELBY COUNTY ENGINEER



VICINITY MAP  
NOT TO SCALE

EQUATIONS: NONE  
EXCEPTIONS: NONE

⊗ - PROJECT LOCATIONS  
INDEX OF SHEETS

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23	DETAILS

# LEGEND FOR INTERSECTION LAYOUT SHEETS

	EXISTING	PROPOSED
WOOD POLE	○	●
GUY WITH ANCHOR	—→	—→
STEEL POLE	◊	●
CONCRETE POLE	□	■
MASTARM POLE	◊—	●—
TRAFFIC SIGNAL PULL BOX	☒	☒
POLE-MOUNTED CONTROLLER CABINET	☒	☒
BASE-MOUNTED CONTROLLER CABINET	☒	☒
CONDUIT	---	---
JACKED OR BORED CONDUIT	---	---
SYSTEM LOOP DETECTOR	NOT SHOWN	←
SYSTEM LOOP LEAD-IN WIRE IN SAW CUT	NOT SHOWN	---
VIDEO DETECTION CAMERA	◻◀	◼◀
VIDEO DETECTION ZONE	NOT SHOWN	---
SIGNAL HEAD	◻→	◼→
SIGNAL HEAD WITH BACKPLATE	◻→+	◼→+
PEDESTRIAN SIGNAL HEAD	▲	▲
SINGLE CHANNEL EMERGENCY VEHICLE PREEMPTION DETECTOR	○	●
DUAL CHANNEL EMERGENCY VEHICLE PREEMPTION DETECTOR	○	●
EMERGENCY VEHICLE PREEMPTION CONFIRMATION LAMP	◻	◼
EMERGENCY VEHICLE PREEMPTION CONFIRMATION BEACON	◻	◼
POST-MOUNTED SIGN	d	•

## CABLE MARKER NOTES

- THE CONTRACTOR SHALL INSTALL CABLE MARKERS TO IDENTIFY THE DETECTION AND EMERGENCY VEHICLE PREEMPTION CABLES. LEGENDS AND COLORS FOR MARKERS ARE TO APPEAR ACCORDING TO THE INFORMATION SUPPLIED BY THE CITY OF MEMPHIS SIGNAL MAINTENANCE DEPARTMENT. MARKERS ARE TO BE PERMANENT, BRIGHTLY COLORED, NON-REFLECTIVE, WITH BLACK LETTERING. MARKERS ARE TO BE MANUFACTURED OF PLASTIC, VINYL OR FIBERGLASS MATERIAL THAT IS DURABLE, UV LIGHT-RESISTANT, WEATHER-PROOF AND SCRATCH-RESISTANT.
- CURB MARKERS SHALL BE INSTALLED TO IDENTIFY CABLES THAT ARE IN OR NEAR THE STREET. CURB MARKERS ARE TO BE FOUR-INCH DIAMETER ROUND DISKS APPLIED TO CONCRETE OR METAL SURFACES WITH AN ADHESIVE ACCORDING TO THE RECOMMENDATION OF THE MANUFACTURER. CURB MARKERS ARE TO BE INSTALLED ON CABINET AND POLE FOUNDATIONS ON THE SIDE ABOVE THE CABLE. CURB MARKERS ARE ALSO TO BE PLACED ON THE CURB AT 100-FOOT SPACING ALONG ANY RUN OF CABLE THAT IS PARALLEL TO THE CURB. WHERE PAVED SHOULDER EXIST INSTEAD OF CURB, PLACE CURB MARKERS ON THE PAVEMENT SURFACE ONE FOOT FROM THE EDGE OF THE SURFACE, OR DIRECTLY OVER THE CONDUIT OR CABLE. CURB MARKERS ARE TO BE DURACAST STYLE CURB MARKERS AS MADE BY DAS MANUFACTURING, WILLIAM FRICK AND CO., OR APPROVED EQUAL. CURB MARKERS SHALL BE ABRASION AND UV-RESISTANT.

## PHASE DIAGRAM LEGEND:

- THROUGH/RIGHT/PERMITTED LEFT TURN →
- PROTECTED LEFT TURN ↶
- DISPLAYED WALK INDICATION ◻→
- NOTE: CLEARANCE INTERVALS ARE NOT SHOWN

APPLICABLE CITY OF MEMPHIS DESIGN STANDARDS T-S-1

APPLICABLE T.D.O.T. STANDARD DRAWINGS T-SG-2, T-SG-3, T-SG-5, T-SG-9A, T-WZ-12, T-WZ-50, T-L-4, T-RR-1

SPECIAL DETAILS WITHIN THIS PLANS SET SHALL SUPERCEDE THOSE FOUND ON THE LISTED STANDARD DRAWINGS.

## GENERAL NOTES

- INSTALL SIGNS AND MARKINGS AS SHOWN PER THE CURRENT VERSION OF THE MUTCD AND TDOT STANDARDS.
- SIGNAL EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE CITY OF MEMPHIS TRAFFIC SIGNAL SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE SIGNAL TIMING IN THE CONTROLLER. CONTACT JAMES COLLINS, KIMLEY-HORN AND ASSOCIATES, INC., AT (901)374-9109 TO OBTAIN TIMINGS AT LEAST 30 DAYS IN ADVANCE OF WHEN SIGNAL TIMINGS ARE NEEDED.
- ALL SALVAGABLE ITEMS TO BE DELIVERED TO THE LOCAL JURISDICTION:  
CITY OF BARTLETT: 3585 ALTURIA ROAD  
CITY OF GERMANTOWN: 7700 SOUTHERN AVENUE  
TOWN OF COLLIERVILLE: 500 KEOUGH ROAD  
SHELBY COUNTY: 6463 HALEY ROAD  
CITY OF MILLINGTON: 4701 BILOXI  
CITY OF MEMPHIS: 980 SOUTH THIRD STREET
- THE CONTRACTOR SHALL PROVIDE THE NEW CONTROLLER UNITS AND THE SIGNAL TIMING SHEETS TO THE CITY OF MEMPHIS TRAFFIC SIGNAL MAINTENANCE OFFICE FOR REVIEW PRIOR TO INSTALLATION OF THE CONTROLLERS IN THE CABINET.
- THE LOCATIONS OF ALL NEW PULL BOXES ARE SCHEMATIC. THE ENGINEER SHALL APPROVE THE FINAL LOCATIONS OF ALL PULL BOXES IN THE FIELD. THE CONTRACTOR SHALL PROVIDE AS-BUILT DOCUMENTATION (RED-LINE OF PLAN SET) WHICH SHOWS EXACT, FINAL DIMENSIONS BETWEEN PULL BOXES AND OTHER POINTS OF CONDUIT TERMINATION.

## UTILITY NOTES

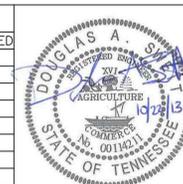
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AVOID ALL UTILITIES AND UNDERGROUND STRUCTURES. THE CONTRACTOR SHOULD NOTE THAT EXISTING GAS LINES, WATER LINES, STORM DRAINAGE AND SANITARY SEWER STRUCTURES, AND OTHER UTILITIES MAY BE PRESENT.
- EXISTING UTILITY LOCATIONS, AS SHOWN ON THESE PLANS, WERE COMPILED BASED ON INFORMATION AVAILABLE TO THE ENGINEER. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE NOT INTENDED TO BE EXACT OR COMPLETE.
- THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.
- SOME UTILITIES CAN BE LOCATED BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC. AT 1-800-351-1111. THE CONTRACTOR SHALL CALL THE TENNESSEE ONE CALL SYSTEM, INC. AT LEAST 72 HOURS BUT NOT MORE THAN FIVE (5) DAYS PRIOR TO ANY PLANNED DIGGING BY THE CONTRACTOR.

## CONSTRUCTION WORK ZONE & TRAFFIC CONTROL NOTES

- NOTHING IN THIS PLAN IS INTENDED TO SUPERSEDE OR RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING THE APPROPRIATE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT STATE OF TENNESSEE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS."
- CONTRACTORS SHALL BE REQUIRED TO NOTIFY SHELBY COUNTY A MINIMUM OF 24 HOURS PRIOR TO COMMENCING CONSTRUCTION OR IMPLEMENTING A TRAFFIC CONTROL PLAN AT (901) 222-7705. ALL TRAFFIC CONTROL DEVICES MUST BE IN PLACE BEFORE CONSTRUCTION ACTIVITIES BEGIN.
- ALL TRAFFIC CONTROL AND THEIR INSTALLATION SHALL MEET THE STANDARD PRESCRIBED IN THE STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL COMPLY WITH THE STATE OF TENNESSEE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 712 TEMPORARY TRAFFIC CONTROL.
- CONTRACTOR SHALL COVER ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SIGNS OR DEVICES DURING CONSTRUCTION AND THEY SHALL REMAIN COVERED DURING CONSTRUCTION AND UNTIL SUCH TIME THAT NO CONFLICT EXISTS.
- THE APPROPRIATE TRAFFIC CONTROL SHALL BE INSTALLED AT THE INCEPTION OF EACH STAGE OF CONSTRUCTION AND SHALL BE PROPERLY MAINTAINED AND/OR OPERATED DURING THE TIME SUCH SPECIAL CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED AND SHALL BE IMMEDIATELY REMOVED THEREAFTER.

CITY OF MEMPHIS	UTILITY OWNERS	CITY OF GERMANTOWN
<p><b>GAS, WATER, &amp; ELECTRIC:</b> MEMPHIS LIGHT, GAS, &amp; WATER 220 S. MAIN ST. MEMPHIS, TN 38103 (901) 528-4186 KEITH LEDBURY</p> <p><b>SEWER:</b> CITY OF MEMPHIS PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION 125 N. MAIN ST., RM. 630 MEMPHIS, TN 38103 (901) 576-6725 GARY VADEN</p> <p><b>TRAFFIC SIGNAL &amp; COMMUNICATIONS:</b> CITY OF MEMPHIS 980 S. THIRD ST. MEMPHIS TN, 38106 (901) 528-2844 JAY WALKO</p>	<p><b>TOWN OF COLLIERVILLE</b></p> <p><b>WATER &amp; SEWER:</b> TOWN OF COLLIERVILLE 500 KEOUGH RD. COLLIERVILLE, TN 38017 (901) 853-3215 TIM OVERLY</p> <p><b>TRAFFIC SIGNAL &amp; COMMUNICATIONS:</b> TOWN OF COLLIERVILLE 500 POPLAR VIEW PKWY. COLLIERVILLE, TN 38017 (901) 457-2340 STEVEN RUSSELL</p> <p><b>TOWN OF MILLINGTON</b></p> <p><b>WATER:</b> CITY OF MILLINGTON 7922 CHURCH ST. MILLINGTON, TN 38053 (901) 873-5673</p> <p><b>SEWER:</b> CITY OF MILLINGTON 7920 EPPERSON MILL RD. MILLINGTON, TN 38053 (901) 872-1178</p> <p><b>TRAFFIC SIGNAL &amp; COMMUNICATIONS:</b> CITY OF MILLINGTON 4836 NAVY RD., SUITE 2 MILLINGTON, TN 38053 (901) 872-3410 DAREK BASKIN</p>	<p><b>WATER &amp; SEWER:</b> CITY OF GERMANTOWN 7700 SOUTHERN AVE. GERMANTOWN, TN 38183-0809 (901) 757-7350</p> <p><b>TRAFFIC SIGNAL &amp; COMMUNICATIONS:</b> CITY OF GERMANTOWN 1930 GERMANTOWN RD. SOUTH GERMANTOWN, TN 38138 (901) 757-7298 JONATHAN SMITH</p> <p><b>SHELBY COUNTY</b></p> <p><b>TRAFFIC SIGNAL &amp; COMMUNICATIONS:</b> SHELBY COUNTY 6463 HALEY RD., BLDG. 10 MEMPHIS, TN 38134 (901) 379-4410 JIM CROOK</p> <p><b>CATV:</b> COMCAST INC. 5450 WINCHESTER RD. MEMPHIS, TN 38115 (901) 365-1770 EXT. 4114 REX MORRIS</p> <p><b>TELEPHONE:</b> BELLSOUTH 3855 OUTLAND RD. MEMPHIS, TN 38118 (901) 797-3501 ALEX LASKARIS</p>

REVISIONS		
DATE	DESCRIPTIONS	APPROVED
10/2013	ADDED NOTES	



DIVISION OF PUBLIC WORKS  
CONGESTION MANAGEMENT PROGRAM  
DETECTION UPGRADE SET #1  
SHELBY COUNTY, TN.

GENERAL NOTES



SURVEY: N/A DATE: N/A BOOK: N/A  
 DRAFTED: KHA DATE: 07/27 SCALE: N.T.S.  
 DESIGNED: KHA DATE: 07/27 CHECKED: JFC DATE: 10/12  
 JURISDICTION: \_\_\_\_\_ SHEET 2 OF 23

DRAWING NAME: K:\MEM\_TPTD\15087002 - Shelby County CMP 2\Design\Level 2 - V0\_EVP\Bid Set 1\Plans\BidSet 1-02-GeneralNotes.dwg Layout1 Oct 22, 2013 11:43AM BY: blaine.lynn

CONGESTION MANAGEMENT PROGRAM (DETECTION UPGRADE SET #1)			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
105-01	CONSTRUCTION STAKES, LINES AND GRADES	L.S.	1
201-01	CLEARING AND GRUBBING	L.S.	1
209-05	SEDIMENT REMOVAL	C.Y.	9
209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	98
701-01.01	CONCRETE SIDEWALK 4"	S.F.	400
701-01.11	DECORATIVE POLE BASE AND SIDEWALK REPLACEMENT	L.S.	1
701-02.01	CONCRETE CURB RAMP (RETROFIT)	S.F.	100
712-01	TRAFFIC CONTROL	L.S.	1
712-99.92	TRAFFIC CONTROL	L.S.	1
717-01	MOBILIZATION	L.S.	1
725-03.91	CURB MOUNTED CABLE MARKER	EACH	131
730-01.10	OVERHEAD UTILITY RELOCATION (UTILITY FEE)	L.S.	1
730-01.13	BRIDGE ATTACHMENT (PERMIT FEE)	L.S.	1
730-03.11	INSTALL SPLICE BOX (POLE-MOUNTED)	EACH	1
730-03.21	INSTALL PULL BOX (TYPE B)	EACH	26
730-11.11	RISER ASSEMBLY (2")	EACH	3
730-11.12	RISER ASSEMBLY (3")	EACH	4
730-12.02	CONDUIT 2" DIAMETER (PVC)	L.F.	1710
730-12.03	CONDUIT 3" DIAMETER (PVC)	L.F.	510
730-12.13	CONDUIT 2" DIAMETER (JACK AND BORE)	L.F.	1605
730-12.14	CONDUIT 3" DIAMETER (JACK AND BORE)	L.F.	440
730-12.08	CONDUIT 2" DIAMETER (RGS)	L.F.	880
730-13.02	VEHICLE DETECTOR (VIDEO)	EACH	16
730-13.03	VEHICLE DETECTOR (4-CHANNEL, RACK-MOUNT)	EACH	7
730-13.06	VEHICLE DETECTOR (OPTICALLY ACTIVATED PRIORITY CONTROL)	EACH	15
730-14.01	SHIELDED DETECTOR CABLE	L.F.	500
730-14.02	SAW SLOT	L.F.	430
730-14.03	LOOP WIRE	L.F.	1275
730-15.11	MODIFY CABINET (POLE-MOUNT ENTRANCE)	EACH	2
730-15.13	MODIFY CABINET (BASE-MOUNT ENTRANCE)	EACH	14
730-15.32	CABINET (EIGHT PHASE BASE MOUNTED)	EACH	1
801-03	WATER (SEEDING & SODDING)	M.G.	1
803-01	SODDING (NEW SOD)	S.Y.	165

**FOOTNOTES**

- 1 FOR TREE TRIMMING AS DIRECTED BY THE ENGINEER.
- 2 TO BE USED AS DIRECTED BY THE ENGINEER.
- 3 SEE SUBSECTION 209.07 OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
- 4 SEE CONSTRUCTION DETAIL SHEETS FOR BRIDGE ATTACHMENT DETAILS. ITEM TO INCLUDE ALL MATERIALS NECESSARY TO ATTACH CONDUIT TO BRIDGE.
- 5 TO BE ITERIS VANTAGE SYSTEM OR APPROVED EQUIVALENT. INCLUDES DETECTION CAMERAS, PROCESSOR UNIT, CARD RACK, VIDEO REMOTE MANAGEMENT CARD WITH ETHERNET INTERFACE, POWER SUPPLY UNIT, SURGE PROTECTION EQUIPMENT (AN EDCO HSP-1218T1RU SERIES SURGE PROTECTION), MONITOR, MOUSE AND ALL CABLING, CONNECTIONS AND HARDWARE TO COMPLETE THE INSTALLATION OF A FULLY FUNCTIONAL VIDEO DETECTION SYSTEM.
- 6 INSTALL ONE (1) DETECTOR CARD PER INTERSECTION APPROACH WHERE ADVANCE DETECTION LOOPS ARE TO BE REPAIRED OR REPLACED. SEE INTERSECTION LAYOUT SHEETS.
- 7 TO BE GTT OPTICOM SYSTEM OR APPROVED EQUIVALENT. INCLUDES OPTICAL DETECTORS, CONFIRMATION LAMPS (PAR 90), POLE-MOUNTED BEACONS, FOUR-CHANNEL PHASE SELECTOR, CARD RACK (OPTICOM 760) AND ALL OTHER CABLING, CONNECTIONS AND HARDWARE TO COMPLETE THE INSTALLATION OF A FULLY-FUNCTIONAL PREEMPTION SYSTEM, INCLUDING FIELD FINE-TUNING. AT THE INTERSECTION OF S.R. 385 AND HOUSTON LEEVEE ROAD, THIS ITEM SHALL INCLUDE AN AUXILIARY INTERFACE PANEL.
- 8 SEE INTERSECTION LAYOUT SHEETS FOR CABINET MODIFICATION DETAILS. INCLUDES MODIFICATIONS EQUIPMENT AND HARDWARE NECESSARY FOR CONDUIT ENTRY INTO CABINET
- 9 THE TRAFFIC SIGNAL CONTROLLER SHALL BE AN EAGLE EPAC M52 KEYBOARD UNIT OR APPROVED EQUIVALENT WITH NTGP COMPLIANT SOFTWARE AND SEPAC, AND BUILT-IN STRETCH AND DELAY FEATURES FOR EACH PHASE. THE TRAFFIC CONTROLLER INSTALLATION ALONG WITH ALL AUXILIARY EQUIPMENT TO BE INSTALLED IN THE CABINET SHALL BE MANUFACTURED, SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE LATEST CITY OF MEMPHIS TRAFFIC SIGNAL CONTROLLER AND CABINET SPECIFICATIONS. THE INSTALLATION SHALL HAVE A 12-CHANNEL MALFUNCTION MONITOR UNIT INSTALLED AS MODEL EDI SSM12LEIP.
- 10 SEE TYPICAL COUNT ZONE DETAIL FOR ZONE LOCATION SETUP.
- 11 FOR JUNCTION BOX TO BE INSTALLED AT TOP OF POLE.
- 12 TO INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR THE REMOVAL AND REPLACEMENT OF PAVERS, STONE, CONCRETE AND OTHER MATERIALS TO INSTALL RISER ON EXISTING POLE AT THE NORTHEAST CORNER OF POPLAR AVENUE AND JOHNSON ROAD. RISER TO BE ATTACHED TO POLE UNTIL BELOW FINISHED GRADE.
- 13 TO INCLUDE ALL ITEMS NECESSARY FOR LANE CLOSURE ON S.R. 385
- 14 ALLOWANCE FOR OBTAINING BRIDGE ATTACHEMENT PERMIT FOR TDOT. ALLOWANCE WILL BE ADJUSTED IF FINAL COST FOR OBTAINING PERMIT IS DIFFERENT.

REVISIONS		
DATE	DESCRIPTIONS	APPROVED
10/2013	ADDED ITEMS AND FOOTNOTES	
10/2013	ADDED ITEMS AND FOOTNOTES	



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SHELBY COUNTY, TN.

**QUANTITIES**

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