

PAY QUANTITIES

JP 21899(04)

TRAFFIC 300 PERMANENT				
ITEM NO.	CODE NO.	DESCRIPTION	UNIT	QUANTITY
516(A)	6096	DRILLED SHAFTS 60" DIAMETER	(SP-6) LF	360
619(B)	5190	REMOVAL OF CABLE BARRIER	LF	6531
628(C)	5110	END ANCHORS	(SP-5) EA	5
804(A)	2915	STRUCTURAL CONCRETE	CY	1.8
804(B)	2916	REINFORCING STEEL	LB	301
805(A)	8720	(PL) REMOVAL OF GROUND MOUNTED SIGNS	(TS-41) LSUM	1
805(A)	8724	(PL) REMOVAL OF EXISTING SIGNS	(TS-41) EA	36
805(D)	8760	(PL) REMOVE & RESET GROUND MOUNTED SIGN	(TS-41) EA	2
850(A)	8110	SHEET ALUMINUM SIGNS	SF	272.1
850(B)	8112	EXTRUDED ALUMINUM PANEL SIGNS	SF	312.3
850(B)	8114	EXTRUDED ALUMINUM PANEL SIGNS (OVERHEAD SIGNS)	SF	1454
851(A)	3206	4"@13 GALV. STEEL WIDE FLANGE BEAM POST	LF	88
851(A)	3207	6"@15 GALV. STEEL WIDE FLANGE BEAM POST	LF	39
851(B)	3218	3" @ 7.58 GALV. STEEL PIPE POST	LF	48.5
851(C)	8330	2 1/2" SQUARE TUBE POST	(TS-33) LF	340
852(D)	0330	OVHD. SN. STR. MONOTUBE TYPE B 100'	(SP-3) EA	4
852(E)	0500	OVHD. SN. STR., MONOTUBE TYPE C	(SP-3) EA	2
853	9069	GUARDRAIL DELINEATORS (TYPE 2, CODE 1)	EA	14
856(A)	8530	TRAFFIC STRIPE(MULTI-POLYMER)(4" WIDE)	(TS-24) LF	25822
856(A)	8535	TRAFFIC STRIPE(MULTI-POLY.) (6" WIDE)	(SP-2) LF	49119
856(A)	8540	TRAFFIC STRIPE(MULTI-POLY.) (8" WIDE)	(TS-26) LF	8491
856(A)	8548	TRAFFIC STRIPE(MULTI-POLY.) (12" WIDE)	(TS-27) LF	1925
856(A)	8555	TRAFFIC STRIPE(MULTI-POLY.) (24" WIDE)	(TS-28) LF	123
856(B)	8860	TRAFFIC STRIPE(MULTI-POLY.) (ARROWS)	EA	4
856(B)	8880	TRAFFIC STRIPE(MULTI-POLY.) (WORDS)	EA	2
878(A)	8485	MODULAR GLARE SCREEN (PERMANENT)	LF	330

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JP 21899(04)

TRAFFIC 301 TEMPORARY				
ITEM NO.	CODE NO.	DESCRIPTION	UNIT	QUANTITY
857(A)	8839	CONSTRUCTION TRAFF. STR.(PAINT)(4" WIDE)	(TC-13,16,17,20,21,61,70,75) LF	68162
857(C)	8851	REMOVABLE PAVEMENT MARKING TAPE(4" WIDE)	(TC-13,19,20,21,61,70,75) LF	62038
857(F)	8006	PAVEMENT MRKNG.REMOVAL(TRAFF.STRP)	(TC-22,70) LF	16300
871(B)	8705	(SP)CONST.ZONE IMPACT ATTEN.	(TC-26,39,52,80,84) SD	484
877(A)	8483	PORTABLE LONGITUDINAL BARRIER	(SP-4) LF	400
877(B)	8484	DELIVER PORTABLE LONGITUDINAL BARRIER	(TC-1,2) LF	17937.5
877(C)	8486	RELOCATION OF PORTABLE LONGITUDINAL BARRIER	(TC-1,2) LF	64500
878(B)	8487	MODULAR GLARE SCREEN (TEMP)	SD	27976
880(A)	8812	ARROW DISPLAY(TYPE C)	(TC-26,39,84) SD	76
880(B)	8818	CONSTRUCTION SIGNS 0 TO 6.25 SF	(TC-26,28,33,84) SD	25080
880(B)	8821	CONSTRUCTION SIGNS 6.26 SF TO 15.99 SF	(TC-26,29,33,84) SD	15469
880(B)	8824	CONSTRUCTION SIGNS 16.0 SF TO 32.99 SF	(TC-26,30,33,84) SD	28238
880(C)	8842	CONSTRUCTION BARRICADES(TYPE III)	(TC-26,33,84) SD	2842
880(C)	8848	WING BARRICADES	(TC-26,33,84) SD	5316
880(D)	8854	VERTICAL PANELS	(SP-1)(TC-26,33,84) SD	13435
880(E)	8860	WARNING LIGHTS(TYPE A)	(TC-26,84) SD	21290
880(F)	8878	DRUMS	(TC-26,33,84) SD	57252
880(K)	8908	SURVEILLANCE TRAFFIC CONTROL	(TC-39) SD	430
880(L)	8911	TRAFFIC SURVEILLANCE, POLICE	(TC-65)(SP-4) HOUR	120
882(A)	8306	PORT.CHANGEABLE MESSAGE SIGN	(SP-1)(TC-26,52,70,85) SD	860

TRAFFIC SIGNING & STRIPING PAY QUANTITY NOTES

- (TS-24) QUANTITY SHOWN INCLUDES 12,798 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(WHITE) AND 13,024 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(YELLOW) AND WILL BE MEASURED BY THE LINEAR FOOT OF FOUR INCH (4") WIDE TRAFFIC STRIPE.
- (TS-26) QUANTITY SHOWN INCLUDES 3,306 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(WHITE) AND 4,985 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(YELLOW) AND WILL BE MEASURED BY THE LINEAR FOOT OF EIGHT INCH (8") WIDE TRAFFIC STRIPE.
- (TS-27) QUANTITY SHOWN INCLUDES 1,925 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(WHITE) AND 0 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(YELLOW) AND WILL BE MEASURED BY THE LINEAR FOOT OF TWELVE INCH (12") WIDE TRAFFIC STRIPE.
- (TS-28) QUANTITY SHOWN INCLUDES 123 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(WHITE) AND WILL BE MEASURED BY THE LINEAR FOOT OF TWENTY-FOUR INCH (24") WIDE TRAFFIC STRIPE.
- (TS-33) INCLUDED IN THIS PAY ITEM IS ALL HARDWARE ASSOCIATED WITH PROPERLY ANCHORING AND MOUNTING THE HIGHWAY SIGN IN ACCORDANCE WITH O.D.O.T. PLANS AND STANDARD DRAWINGS SSA1-1 AND SSP1-1 (LATEST REVISION).
- (TS-41) "REMOVAL OF EXISTING SIGNS" SHALL INCLUDE THE REMOVAL OF A COMPLETE SIGN ASSEMBLY WHICH MAY INCLUDE MULTIPLE SIGNS, POSTS, FOOTINGS, AND ANY FOOTINGS ADJACENT TO THE SIGN ASSEMBLY, WHEN APPROVED BY THE ENGINEER, FOOTINGS MAY BE OBLITERATED TO A POINT BELOW GROUND LEVEL IN LIEU OF BEING COMPLETELY REMOVED. SEE GENERAL CONSTRUCTION NOTES FOR DISPOSAL OF OLD CONCRETE FOOTING MATERIAL.

TRAFFIC CONTROL PAY QUANTITY NOTES

- (TC-1) THE CONTRACTOR SHALL FURNISH AND INSTALL SUCH LIGHTS, SIGNS, BARRICADES, AND PROVIDE FLAGGERS NECESSARY FOR THE CONTROL, SAFETY, AND MAINTENANCE OF TRAFFIC WHEN INSTALLING, RELOCATING OR DELIVERING PORTABLE LONGITUDINAL BARRIER.
- (TC-2) QUANTITY INCLUDES SUFFICIENT LENGTH OF PORTABLE LONGITUDINAL BARRIER TO PROVIDE FOR THE LONGEST SECTION SHOWN ON THE PLANS. THE SAME BARRIER WILL BE USED ON OTHER DETOUR PHASES.
- (TC-13) A PART, OR ALL, OF THIS ITEM IS INTENDED FOR REPLACEMENT OF REMOVED EXISTING CONFLICTING STRIPING.
- (TC-16) PAINT SHALL CONFORM TO SECTION 711 "TRAFFIC STRIPE", OR THE O.D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION).
IF CONSTRUCTION TRAFFIC STRIPE PAINT IS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND FAILS DURING THE FIRST SIX MONTHS OF SERVICE, REPLACEMENT WILL BE MADE AT THE CONTRACTOR'S EXPENSE AND SHALL BE ACCOMPLISHED IN A TIMELY MANNER UPON NOTIFICATION BY THE ENGINEER OF SUCH FAILURE.
- (TC-17) INCLUDES AN ESTIMATED 40,042 L.F. (PAINT)(4" WIDE) WHITE 28,120 L.F. (PAINT)(4" WIDE) YELLOW STRIPE.
- (TC-19) THIS ITEM INCLUDES AN ESTIMATED 52,202 L.F. (4" WIDE) WHITE AND 11,836 L.F. (4" WIDE) YELLOW STRIPE. THE CONTRACTOR SHALL PROVIDE AND INSTALL AN O.D.O.T. APPROVED REMOVABLE PAVEMENT MARKING TAPE. COST FOR REMOVAL OF THIS TAPE SHALL BE INCLUDED IN THE PRICE BID FOR THIS ITEM. NON-REMOVABLE MARKING TAPE (FOIL BACK) SHALL NOT BE CONSIDERED AN APPROVED EQUAL FOR THIS ITEM.
- (TC-20) ALL STRIPING TO BE PLACED ON TEMPORARY SURFACES OR ON SURFACES SCHEDULED TO BE REMOVED SHALL BE DONE WITH PAINT UNLESS OTHERWISE NOTED ON THE PLANS OR STANDARD DRAWINGS. TEMPORARY PAVEMENT MARKINGS PLACED ON FINISHED PAVEMENT OR EXISTING PAVEMENT TO REMAIN IN PLACE SHALL USE ONE OF THE FOLLOWING METHODS:
 - REMOVABLE PAVEMENT MARKING TAPE
 - CLASS A PAVEMENT MARKERS
- (TC-21) INCLUDED IN THE COST OF THIS ITEM SHALL BE INSTALLATION, MAINTENANCE, AND REMOVAL. THIS ITEM SHALL BE BID ACCORDINGLY.
- (TC-22) AMOUNT SHOWN IS AN APPROXIMATION AND THE ACTUAL AMOUNT OF REMOVAL, IF NECESSARY, SHALL BE DETERMINED BY THE ENGINEER. PRICE BID FOR PAVEMENT MARKING REMOVAL SHALL INCLUDE THE COST OF REMOVING STRIPE, ARROWS, WORDS AND SYMBOLS, AS SHOWN IN THE PLANS. THESE ITEMS MAY CONSIST OF PLASTIC, PAINT OR NON-REMOVABLE MARKING TAPE.
- (TC-26) CONSTRUCTION TRAFFIC CONTROL WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VII OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND APPLICABLE O.D.O.T. STANDARD DRAWINGS. PRICE BID FOR THIS ITEM SHALL BE PAYMENT IN FULL FOR THE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL DEVICES REQUIRED FOR COMPLETION OF THE PROJECT.
ALL SIGNS AND BARRICADES WHICH ARE SHOWN WITH TYPE "A" LIGHTS IN THE STANDARD DRAWINGS SHALL HAVE THE CORRESPONDING LIGHT ATTACHED DURING NON-DAYLIGHT HOURS.
- (TC-28) INCLUDED IN THIS ITEM ARE ALL S.C.S. (SPECIAL CONSTRUCTION SIGNING) SIGNS WHICH ARE BETWEEN 0.00 S.F. AND 6.25 S.F. ALSO INCLUDED IN THIS ITEM SHALL BE THE COST OF INSTALLATION, MAINTENANCE, AND REMOVAL OF THESE SIGNS.
- (TC-29) INCLUDED IN THIS ITEM ARE ALL S.C.S. (SPECIAL CONSTRUCTION SIGNING) SIGNS WHICH ARE BETWEEN 6.26 S.F. AND 15.99 S.F. ALSO INCLUDED IN THIS ITEM SHALL BE THE COST OF INSTALLATION, MAINTENANCE, AND REMOVAL OF THESE SIGNS.
- (TC-30) INCLUDED IN THIS ITEM ARE ALL S.C.S. (SPECIAL CONSTRUCTION SIGNING) SIGNS WHICH ARE BETWEEN 16.00 S.F. AND 32.99 S.F. ALSO INCLUDED IN THIS ITEM SHALL BE THE COST OF INSTALLATION, MAINTENANCE, AND REMOVAL OF THESE SIGNS.
- (TC-33) ALL CONSTRUCTION WORK ZONE SIGNS SHALL HAVE FLUORESCENT SHEETING. THE FLUORESCENT SHEETING SHALL MEET THE REQUIREMENTS OF ASTM D4956 (LATEST REVISION).
THE MANUFACTURER SHALL FURNISH A TYPE "D" CERTIFICATION IN ACCORDANCE WITH O.D.O.T. STANDARD SPECIFICATIONS (CURRENT EDITION) SUBSECTION 106.04. THE CERTIFICATION SHALL INCLUDE TEST RESULTS ON MATERIAL SUBMITTED FOR APPROVAL.
- (TC-39) THE CONTRACTOR SHALL PROVIDE A PERSON, 24 HOURS A DAY, SEVEN DAYS A WEEK, AT THE CONSTRUCTION SITE TO MAINTAIN AND KEEP ALL TRAFFIC CONTROL DEVICES IN POSITION ANYTIME TRAFFIC IS DIRECTED AWAY FROM THE NORMAL TRAFFIC LANES OR ANYTIME THE ENGINEER DEEMS IT NECESSARY. THIS PERSON SHALL HOLD A CURRENT CERTIFICATION FROM THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) OR THE OKLAHOMA TRAFFIC ENGINEERING ASSOCIATION (OTE) AS A TRAFFIC CONTROL TECHNICIAN OR TRAFFIC CONTROL SUPERVISOR.
- (TC-52) ANY USED CHANGEABLE MESSAGE SIGN AND CONSTRUCTION ZONE IMPACT ATTENUATOR TO BE PLACED ON THIS PROJECT SHALL BE SUBJECT TO INSPECTION AND APPROVAL, BY THE OKLAHOMA DEPARTMENT OF TRANSPORTATION, TO ASSURE THAT THEY ARE IN GOOD WORKING CONDITION, PRIOR TO PLACEMENT ON THE PROJECT.
- (TC-61) ANY DAMAGE TO A FINISHED OR EXISTING SURFACE RESULTING FROM THE CONTRACTOR'S NEGLIGENCE IN THE REMOVAL OF CONSTRUCTION ZONE PAVEMENT MARKERS OR CHANNELIZING DEVICES AND THE BITUMINOUS ADHESIVE USED IN THEIR INSTALLATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE ENGINEER.

TRAFFIC CONTROL PAY QUANTITY NOTES (CONT'D)

- (TC-65) THE PRICE BID FOR THIS ITEM SHALL INCLUDE THE FOLLOWING:
 - A. ONE OFFICIALLY MARKED OKLAHOMA HIGHWAY PATROL CAR (WHEN PROJECT INVOLVES A STATE OR FEDERAL HIGHWAY). IF AN OKLAHOMA HIGHWAY PATROL CAR IS NOT AVAILABLE, THEN A LOCAL CITY OR COUNTY LAW ENFORCEMENT VEHICLE IS TO BE USED. PRICE BID FOR THIS ITEM SHALL BE PAID ON A PER UNIT PER HOUR BASIS.
 - B. ONE OKLAHOMA HIGHWAY LAW ENFORCEMENT OFFICER WITH JURISDICTIONAL AUTHORITY TO WRITE AND ISSUE TRAFFIC CITATIONS. IF AN OKLAHOMA HIGHWAY PATROL CAR IS NOT AVAILABLE, THEN A LOCAL CITY OR COUNTY LAW ENFORCEMENT VEHICLE IS TO BE USED. THE LAW ENFORCEMENT OFFICER SHALL BE INSURED, LICENSED AND BONDED, IF REQUIRED, BY THE CONTRACTOR. THIS OFFICER SHALL BE SPECIFICALLY APPROVED AND ASSIGNED TO THIS WORK ACTIVITY.
 - C. THE CONTRACTOR SHALL MAKE ALL THE NECESSARY ARRANGEMENTS WITH THE OKLAHOMA HIGHWAY PATROL OR THE LAW ENFORCEMENT AGENCY TO PROVIDE THE REQUIRED LAW ENFORCEMENT ON THIS PROJECT.
 - D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING HIS ANTICIPATED WEEKLY SCHEDULE TO THE OKLAHOMA HIGHWAY PATROL OR THE LOCAL LAW AGENCY TWO WEEKS IN ADVANCE OF THE WORK. THE WORK SCHEDULE WILL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
 - E. THE OKLAHOMA HIGHWAY PATROL OR THE LOCAL LAW ENFORCEMENT AGENCY WILL BE PAID FOR A MAXIMUM OF ONE (1) HOUR, PER WORK PERIOD, TO ALLOW FOR TRAVEL TO AND FROM THE OFFICER'S PERMANENT DUTY STATION AND THE WORK SITE. THIS WILL BE PAID ONE (1) TIME PER WORK PERIOD AS DEFINED BY THE CONTRACTOR IN AGREEMENT WITH THE ENGINEER.
- (TC-70) THIS ITEM IS AN ESTIMATED QUANTITY TO BE USED AS DEEMED NECESSARY BY THE ENGINEER.
- (TC-75) TEMPORARY PAVEMENT MARKINGS SHALL BE IN PLACE THE SAME DAY THAT EXISTING PAVEMENT MARKINGS ARE REMOVED FROM ANY ROADWAY OPEN TO TRAFFIC. ALSO, ALL TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED PRIOR TO THE INSTALLATION OF FINAL STRIPING.
- (TC-80) INCLUDED IN THIS ITEM SHALL BE ONE (1) ADDITIONAL UNIT TO BE USED AS A STAND-BY OR REPLACEMENT. THIS STAND-BY UNIT SHALL BE IMMEDIATELY ACCESSIBLE TO REPLACE A DAMAGED, STOLEN OR MALFUNCTIONING UNIT. THE AMOUNT OF TIME BETWEEN THE REMOVAL OF THE DAMAGED UNIT AND THE INSTALLATION OF THE STAND-BY UNIT SHALL BE NO MORE THAN TWENTY-FOUR (24) HOURS.
- (TC-84) 430 CONSTRUCTION CALENDAR DAYS WERE USED TO COMPUTE THE SIGN DAY PAY ITEMS. THE AMOUNT OF CALENDAR DAYS USED TO COMPUTE THE SIGN DAY PAY ITEMS IS AN ESTIMATED QUANTITY ONLY, BASED ON THE CURRENT O.D.O.T. STANDARDS AND SUGGESTED CONSTRUCTION SEQUENCE FOR THIS PROJECT. THESE ESTIMATED SIGN DAY QUANTITIES MAY CHANGE AS THE PROJECT'S CONSTRUCTION TRAFFIC CONTROL IS MODIFIED DURING CONSTRUCTION.
- (TC-85) THESE SIGNS MUST BE ON THE OKLAHOMA DEPARTMENT OF TRANSPORTATION LIST OF APPROVED CHANGEABLE MESSAGE SIGNS. FOR A LIST OF THE APPROVED SIGNS GO TO THE OKLAHOMA DEPARTMENT OF TRANSPORTATION WEBSITE AT: <http://okladot.state.ok.us/traffic/qpl/index.php>
- (SP-1) TYPE "C" WARNING LIGHTS NOT REQUIRED.
- (SP-2) QUANTITY SHOWN INCLUDES 24,613 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(WHITE) 9,702 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(BLACK) AND 14,804 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(YELLOW) AND WILL BE MEASURED BY THE LINEAR FOOT OF SIX INCH (6") WIDE TRAFFIC STRIPE.
- (SP-3) SEE DETAILS SHEET M1-M4 FOR CONSTRUCTION AND MATERIAL REQUIREMENTS.
- (SP-4) FOR PLACEMENT AT C.R.L. STA 816+00 TO 820+00. SHALL REMAIN IN PLACE AT END OF CONSTRUCTION.
- (SP-5) FOR USE TO TEMPORARILY ANCHOR SYSTEM DURING TRAFFIC SHIFTS.
- (SP-6) FOR USE IN FOUNDATIONS OF MONOTUBE STRUCTURES. PRICE BID TO INCLUDE COST OF CONCRETE AND REINFORCING STEEL. SEE DETAILS SHEET M5-M7.

DESIGN	AKS	6/14	SUMMARY OF PAY QUANTITIES AND NOTES (TRAFFIC) TULSA & ROGERS COUNTIES STATE JOB NO. 21899(04) SHEET NO. 16
DRAWN	TML	6/14	
CHECKED	KMM	6/16	
APPROVED			
SQUAD	GARVER		