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LIQUIDATED DAMAGES / INTERIM COMPLETION REQUIREMENTS

THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS AND INCREASE HIS WORK FORCE AS NECESSARY SO AS TO COMPLETE ALL WORK ITEMS LISTED FOR EACH PHASE FOR THE IDENTIFIED WORK ZONES BY OCTOBER 15th. APPROVED TIME EXTENSIONS DUE TO WEATHER OR OTHER REASONS SHALL EXTEND THAT DATE.

INTERIM DATE FOR ALL WORK NORTH OF STA. 89+00. THIS WORK SHALL BE COMPLETED AND TRAFFIC RETURNED TO NORMAL BY OCTOBER 15, 1999.

INTERIM DATED FOR WORK SOUTH OF STA. 89+00. THIS WORK SHALL BE COMPLETED BY AUGUST 15, 2000. IF THE CONTRACTOR CHOOSES TO START THIS WORK DURING 1999, THE INTERIM COMPLETION DATE OF OCTOBER 15, 1999 SHALL APPLY.

THE STARTING DATE FOR SWITCHING FROM PHASE I TO PHASE IA MAY BE DIFFERENT FOR EACH PHASE IA LOCATION.

FOR RAMP A PHASE IA MUST BE COMPLETED WITHIN 25 DAYS. FOR RAMP C PHASE IA MUST BE COMPLETED WITHIN 14 DAYS. AT THAT TIME TRAFFIC SHALL BE SWITCHED TO THE PREVIOUS PHASE OR SUBSEQUENT PHASE AS APPROPRIATE. THE TIME LIMIT SHALL BEGIN ON THE FIRST DAY THAT THE LANE SHIFTS ARE IMPLEMENTED, AND SHALL CONTINUE BASED UPON CALANDER DAYS UNTIL COMPLETION AS DEFINED BELOW.

NON-RUSH HOUR CLOSURES, AS PERMITTED BY THE "SCHEDULE OF THRU LANES TO BE MAINTAINED" TABLE ON SHEET 18, ARE NOT CONSIDERED WITHIN TIME LIMITS ABOVE. (THOSE CLOSURES ARE DISCUSSED IN THE "LIQUIDATED DAMAGES/SHORT TERM LANE CLOSURES" NOTE).

THE COMPLETION OF A PHASE REQUIRES THAT ALL WORK FOR THAT PHASE IS COMPLETED AND TRAFFIC IS RETURNED TO NORMAL OR THE SUBSEQUENT PHASE IS IMPLEMENTED.

LIQUIDATED DAMAGES AS DETERMINED FROM THE TABLE IN SECTION 108.07 OF THE SPECIFICATIONS SHALL BE ASSESSED FOR EACH DAY (OR PORTION THEREOF) FOR WHICH THESE TIME LIMITS ARE NOT MET. IF MORE THAN ONE PHASE OF THIS WORK IS IN VIOLATION OF THE STATED TIME LIMITS THEN LIQUIDATED DAMAGES IN THE AMOUNT NOTED ABOVE SHALL BE ASSESSED FOR EACH PHASE AND WILL BE CUMULATIVE.

LIQUIDATED DAMAGES/SHORT TERM LANE CLOSURES

SHORT TERM LANE CLOSURES ARE THOSE WHICH ARE PERMITTED BY THE PLANS ON SHEET 18. SHORT TERM CLOSURES CAN BE IMPLEMENTED DURING LONG TERM MAINTENANCE OF TRAFFIC PHASES FOR THE TIMES GIVEN.

THESE TIMES SHALL NOT BE REVISED WITHOUT PRIOR APPROVAL FROM THE DISTRICT 12 WORK ZONE TRAFFIC CONTROL ENGINEER.

SHORT TERM LIQUIDATED DAMAGES SHALL ALSO BE ASSESSED WHEN A RAMP CLOSURE IS VIOLATED.

IF SHORT TERM LANE CLOSURES ARE IN PLACE OUTSIDE THE SPECIFIED TIMES, LIQUIDATED DAMAGES IN THE AMOUNT OF \$ 40.00 PER MINUTE SHALL BE ACCESSED THE CONTRACTOR FOR EACH MINUTE THE LANE REMAINS CLOSED.

SHORT TERM LANE CLOSURES SHALL ONLY BE IMPLEMENTED WHEN WORK IS BEING CONTINUOUSLY PERFORMED. THE CLOSURE SHALL BE REMOVED AS SOON AS POSSIBLE AFTER WORK HAS STOPPED.

NIGHT VEST

ALL OF THE CONTRACTORS AND SUB-CONTRACTORS PERSONNEL WORKING DURING THE HOURS OF DARKNESS SHALL WEAR A 100% SILVER REFLECTIVE SAFETY VEST. THE SAFETY VEST SHALL BE PROVIDED BY THE CONTRACTOR. THE VEST MAY HAVE SEVERAL LIME OR ORANGE STRIPES ON IT.

WORKSITE TRAFFIC SUPERVISOR

THE CONTRACTOR SHALL EMPLOY (OTHER THAN THE SUPERINTENDENT) AND SUBJECT TO THE APPROVAL OF THE ENGINEER A CERTIFIED WORKSITE TRAFFIC SUPERVISOR (WTS). THE WTS MAY BE CERTIFIED FROM ONE OF THE FOLLOWING ORGANIZATIONS 1) AMERICAN TRAFFIC SAFETY SERVICE ASSOCIATION (A.T.S.S.A. PHONE NO. 800-272-8772) CERTIFIED WORKSITE TRAFFIC SUPERVISOR (WTS), 2) THE NATIONAL SAFETY COUNCIL, TRAFFIC CONTROL ZONES SUPERVISORS COURSE, PHONE NO. 800-441-5103, OR TAKE THE FOLLOWING COURSE BY THE NATIONAL HIGHWAY INSTITUTE, DESIGN AND OPERATION OF WORK ZONE TRAFFIC CONTROL PHONE NO. 703-235-0528. THE WTS POSITION IS ESTABLISHED FOR THE PURPOSE OF MONITORING AND CORRECTING ANY TRAFFIC CONTROL DEFICIENCIES IN THE WORK ZONE. THE WTS SHALL OVERSEE ALL OPERATIONS THAT AFFECT THE MOVEMENT OF VEHICULAR AND PEDESTRIAN TRAFFIC THROUGH THE WORK ZONE.

THE WTS SHALL BE PRESENT WHEN THE CONTRACTOR OR SUBCONTRACTOR INSTALLS A TRAFFIC RESTRICTION, LANE CLOSURE ETC. IN LIEU OF THE WTS BEING PRESENT WHEN A SUBCONTRACTOR HAS A TRAFFIC CONTROL ZONE IN PLACE THE SUBCONTRACTOR MAY USE IS OWN PERSONNEL THAT IS A CERTIFIED WTS. THE SUBCONTRACTOR MUST PRESENT A COPY OF HIS WTS CERTIFICATE TO THE PROJECT ENGINEER. A WTS MUST BE PRESENT WHEN THE WORK ZONE IS BEING SET UP. HE MUST APPROVE THE WORK ZONE BEFORE HE LEAVES OR PERFORMS OTHER DUTIES.

IF THE RESTRICTIONS ARE SHORT TERM, THE WTS SHALL MONITOR THE ZONE FOR COMPLIANCE. DURING THE LANE CLOSURE HE SHALL MAKE SURE ALL TRAFFIC CONTROL ITEMS ARE FUNCTIONING PROPERLY. TRAFFIC CONTROL WILL BE THE WTS MAIN DUTY DURING IMPLEMENTATION OF ZONES OR SHORT TERM ZONES. THE WTS SHALL HAVE THE AUTHORITY TO HAVE THE DEFICIENCIES CORRECTED AS SOON AS POSSIBLE. THE WTS SHALL PROVIDE THE PROJECT ENGINEER A SKETCH OF THE (TCP) TRAFFIC CONTROL PLAN EVERY DAY THERE IS TO BE A SHORT TERM TRAFFIC RESTRICTION, LANE CLOSURE ETC. THIS TCP SHALL SHOW HOW THE WORK ZONES ARE TO BE IMPLEMENTED.

DAILY, INCLUDING ONE DAY DURING THE WEEKEND AND HOLIDAYS THE WTS SHALL SPEND A MINIMUM OF ONE HOUR REVIEWING AND MAINTAINING THE WORK ZONE. THESE HOURS MAY BE ADJUSTED BY THE ENGINEER. THE HOURS MAY BE REDUCED DURING WINTER CONSTRUCTION SEASON IF DIRECTED BY THE ENGINEER. THE WTS SHALL INSPECT THE WORK ZONE AT THE BEGINNING AND END OF EACH WORK DAY AND ONE TIME PER WEEK DURING THE HOURS OF DARKNESS AND ONCE DURING A WEEKEND.

A RECORD OF EACH DAY'S REVIEW SHALL BE GIVEN TO THE PROJECT ENGINEER THE FOLLOWING WORKDAY, IN WRITING AND SHALL INCLUDE: TRAFFIC CONTROL DEVICE CONDITION, PLACEMENT, VISIBILITY, TRAFFIC FLOW CONDITIONS, INCIDENTS, CONGESTION POINTS, ADEQUACY OF ADVANCED WARNING SIGNS BEYOND THE PROJECT LIMITS, INTERACTION OF WORK VEHICLES WITH TRAFFIC, PROPER STORAGE OF MATERIALS AND EQUIPMENT, ACCIDENTS ETC. THE RECORD OF REVIEW SHALL BE GIVEN TO THE PROJECT ENGINEER DAILY IN WRITING AND SHALL INCLUDE A RECORD OF DEFICIENCIES AND RESOLUTIONS OF THE DEFICIENCIES. THE WTS SHALL BE AVAILABLE ON A 24-HOUR BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISSING TRAFFIC CONTROL DEVICES. A 24-HOUR PHONE NUMBER SHALL BE MADE AVAILABLE TO THE PROJECT ENGINEER IN ORDER TO CONTACT THE WTS. THE WTS SHALL HAVE A PAGER AND THE PHONE NUMBER PROVIDED TO THE PROJECT ENGINEER.

FAILURE OF THE CONTRACTOR TO COMPLY WITH ANY OF THE ABOVE, SHALL CONSTITUTE CAUSE FOR THE PROJECT ENGINEER TO DEDUCT \$500.00 PER DAY FROM MONEY DUE THE CONTRACTOR NOT AS A PENALTY BUT AS A LIQUIDATED DAMAGE.

PAYMENT FOR THE WTS SHALL BE INCLUDED UNDER THE LUMP SUM ITEM 614, MAINTAINING TRAFFIC.

ITEM SPECIAL - ADDITIONAL SIGNS, GROUND MOUNTED, AS DIRECTED BY THE ENGINEER

WHEN ADDITIONAL SIGNING IS NEEDED TO MAINTAIN TRAFFIC, THE CONTRACTOR SHALL FURNISH THE SIGN OR SINGS AS DIRECTED BY THE ENGINEER. THESE SIGNS SHALL BE GROUND MOUNTED AND MEET ALL THE SPECIFICATIONS OF THE PLAN, PROPOSAL AND CURRENT YEAR CMS.

PAYMENT FOR THIS ITEM SHALL INCLUDE BUT NOT BE LIMITED TO THE COST TO FURNISH AND ERECT THE SIGN, INCLUDING DRIVE POSTS OR OTHER APPROVED METHOD OF SUPPORT, MAINTAIN THE SIGN AND REMOVE THE SIGN THE FOLLOWING QUANTITY SHALL BE CARRIED TO THE GENERAL SUMMARY:

ITEM SPECIAL - ADDITIONAL SIGNS, GROUND MOUNTED, 250 SQ. FT. AS DIRECTED BY THE ENGINEER

CONTRACTOR'S EQUIPMENT - OPERATION AND STORAGE

VEHICLES AND EQUIPMENT SHALL ALWAYS MOVE WITH, AND NOT ACROSS OR AGAINST THE FLOW OF TRAFFIC. VEHICLES AND OTHER EQUIPMENT SHALL NOT PARK OR STOP EXCEPT WITHIN DESIGNATED WORK AREAS; AND SHALL NOT ENTER AND LEAVE WORK AREAS IN A MANNER WHICH WILL BE HAZARDOUS TO, OR INTERFERE WITH THE NORMAL TRAFFIC FLOW. PERSONAL VEHICLES WILL NOT BE PERMITTED TO PARK WITHIN THE RIGHT-OF-WAY EXCEPT IN SPECIFIC AREAS DESIGNATED BY THE ENGINEER.

EQUIPMENT, VEHICLES AND MATERIALS SHALL NOT BE STORED OR PARKED WITHIN 30 FEET OF THE TRAVELED WAY UNLESS 6 FEET BEHIND PCB OR GUARDRAIL.

ALL WORK VEHICLES AND EQUIPMENT THAT ENTERS THE WORK ZONE MORE THAN ONCE A DAY MUST BE EQUIPPED WITH AT LEAST ONE FLASHING, ROTATING, OR OSCILLATING AMBER LIGHT THAT IS VISIBLE IN ALL DIRECTIONS OF TRAFFIC FOR AT LEAST ONE QUARTER OF A MILE, DAY OR NIGHT.

MAINTENANCE OF TRAFFIC CONTROL ZONES

THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE SIGNS, DRUMS AND TEMPORARY PAVEMENT MARKINGS AT THE LOCATIONS DETAILED IN THE PLANS OR SPECIFIED IN THE STANDARD DRAWINGS. WHEN THE CONTRACTOR IS NOTIFIED OF DEFICIENCIES HE SHALL CORRECT THE DEFICIENCIES AS SOON AS POSSIBLE, PREFERRABLY WITHIN 12 HOURS AND NO LATER THAN 24 HOURS. IF ANY NOTED DEFICIENCIES ARE NOT CORRECTED WITHIN 24 HOURS THE ENGINEER SHALL DEDUCT ONE DAY PAY FOR ITEM 614-MAINTAINING TRAFFIC, NOT AS A PENALTY BUT AS LIQUIDATED DAMAGES. THE CONTRACTOR SHALL BE SUBJECT TO THESE LIQUIDATED DAMAGES FOR EACH AND EVERY DAY THAT THESE PROVISIONS ARE NOT MET. ALL COSTS FOR MAINTAINING THE WORK ZONES AS DESCRIBED ABOVE SHALL BE INCLUDED UNDER ITEM 614 - MAINTAINING TRAFFIC.

FLASHING LIGHTS

ALL WORK VEHICLES AND EQUIPMENT THAT ENTER THE WORK ZONE MORE THAN ONCE A DAY MUST BE EQUIPPED WITH AT LEAST ONE FLASHING, ROTATING, OR OSCILLATING AMBER LIGHT THAT IS VISIBLE IN ALL DIRECTIONS OF TRAFFIC FOR AT LEAST ONE QUARTER OF A MILE, DAY OR NIGHT.

ADDITIONAL SIGNAGE

ADVANCE WARNING SIGN GROUPS AS PER STANDARD DRAWINGS MT-95.30, MT-96.10, MT-97.10, MT-98.12, MT-98.15, MT-98.16, MT-98.17, MT-98.18 AND MT-102.10 SHALL ALSO BE INSTALLED, PAYMENT FOR THESE SIGNS SHALL BE UNDER ITEM 614 - MAINTAINING TRAFFIC.

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MAINTENANCE OF TRAFFICE NOTES

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