

**INTRODUCTION**

- 1. THE FOLLOWING TRAFFIC CONTROL PLAN IS INTENDED TO BE A GENERAL CONCEPT FOR STAGING THE WORK WHILE MAINTAINING TRAFFIC. SPECIFIC DETAILS TO ADDRESS SPECIFIC SITUATIONS ARE PROVIDED SEPARATELY IN THE CONTRACT DOCUMENTS. IF THE CONTRACTOR REQUIRES MINOR REVISIONS TO THE SPECIFIC TRAFFIC CONTROL PLAN SHEETS, THE CONTRACTOR SHALL ALLOW THE ENGINEER 2 WEEKS FOR THE REVIEW AND APPROVAL OF THE CHANGES.
- 2. ALL TRAFFIC CONTROL DETAILS MUST BE DESIGNED AND IMPLEMENTED IN ACCORDANCE WITH THE 2009 FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND VTRANS STANDARDS T-1, T-10, T-17, T-24, T-25 AND T-45.
- 3. NOT USED

**GENERAL**

- 4. THE PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE USED AT THE DISCRETION OF THE ENGINEER. THE PCMS SHALL BE USED IN ACCORDANCE WITH SECTION 6F.60 OF THE 2009 EDITION OF THE MUTCD AND PAID FOR AS ITEM 641.15 PORTABLE CHANGEABLE MESSAGE SIGN.
- 5. ALL ITEMS REQUIRED FOR TRAFFIC CONTROL MEASURES SHALL BE PAID UNDER ITEM 900.645 TRAFFIC CONTROL, ALL-INCLUSIVE. THESE ITEMS WILL INCLUDE BUT ARE NOT LIMITED TO: FURNISHING, INSTALLING, RELOCATING AND REMOVING REFLECTORIZED DRUMS, TEMPORARY TRAFFIC BARRIER, REMOVE AND RESET TRAFFIC BARRIER, ENERGY ABSORPTION ATTENUATOR, PORTABLE ARROW BOARDS, ANY NECESSARY CONSTRUCTION SIGNAGE, RELOCATING EXISTING SIGNS, REMOVAL OF EXISTING PAVEMENT MARKINGS, TEMPORARY PAVEMENT LINES AND MARKINGS, RESTORATION OF EXISTING PAVEMENT MARKINGS, TEMPORARILY RELOCATING MAILBOXES, LIGHTING PLAN, TEMPORARY WORK ZONE LIGHTING, AND ALL OTHER INCIDENTALS REQUIRED TO CONTROL TRAFFIC DURING THE ENTIRE DURATION OF CONSTRUCTION, FOR BOTH DAYTIME AND NIGHTTIME CONSTRUCTION ACTIVITIES.
- 6. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 641 TRAFFIC CONTROL OF THE VTRANS STANDARD SPECIFICATIONS FOR CONSTRUCTION 2011, THE FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND ANY PROVISIONS IN THE PLANS AND/OR CONTRACT, OR AS DIRECTED BY THE ENGINEER.
- 7. THE TRAFFIC CONTROL PLANS SHOWN ARE CONSIDERED TO BE MINIMUM REQUIREMENTS. ADDITIONAL SIGNS AND/OR CONTROL DEVICES MAY BE REQUIRED BY THE MUTCD OR AS DIRECTED BY THE ENGINEER. THESE WILL BE PAID INCIDENTAL TO ITEM 900.645 TRAFFIC CONTROL, ALL-INCLUSIVE.
- 8. THE SIGN LOCATIONS ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.
- 9. VEHICLES BELONGING TO THE CONTRACTOR OR WORKERS SHALL NOT BE PARKED ON THE PAVEMENT OR SHOULDERS ALONG A ROADWAY BEING USED BY THE GENERAL PUBLIC. VEHICLES SHALL NOT BE PARKED IN A MANNER WHICH OBSTRUCTS ANY SIGNS, BANNERS, BARRICADES, OR ANY OTHER TRAFFIC CONTROL DEVICES.
- 10. THE CONTRACTOR SHALL NOT PARK EQUIPMENT OR STORE MATERIAL WHERE IT IS DEEMED BY THE ENGINEER TO BE A SAFETY HAZARD.
- 11. ANY EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE MASKED OR REMOVED AS DIRECTED BY THE ENGINEER. UPON COMPLETION OF WORK, THE EXISTING PAVEMENT MARKINGS SHALL BE RE-INSTALLED IN-KIND. THIS WORK SHALL PAID UNDER ITEM 900.645 TRAFFIC CONTROL, ALL-INCLUSIVE.
- 12. THE CONTRACTOR SHALL SCHEDULE CONSTRUCTION OPERATIONS IN A MANNER SO AS TO MINIMIZE THE LENGTH OF TIME THAT NORMAL TRAFFIC FLOWS ARE DISTURBED.
- 13. TEMPORARY PAVEMENT MARKINGS AND/OR DELINEATION DEVICES SHALL BE PROVIDED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 14. THE CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION SCHEDULE FOR EACH CONSTRUCTION STAGE.
- 15. THE CONTRACTOR SHALL MAINTAIN TWO LANES OF TRAFFIC (ONE EASTBOUND, ONE WESTBOUND) THROUGH THE PROJECT AREA DURING PEAK HOURS AS DEFINED IN THE PROJECT SPECIAL PROVISIONS, UNLESS APPROVED IN WRITING BY THE ENGINEER .
- 16. NOT USED
- 17. WHEN TYPE III BARRICADES ARE USED NEAR DRIVEWAYS OR INTERSECTIONS, THEY SHALL BE PLACED IN SUCH A WAY AS TO NOT OBSCURE SIGHT DISTANCE.
- 18. THE CONTRACTOR SHALL NOT MIX DELINEATION DEVICES IN A LINEAR CLOSURE OR TAPER (I.E. CONES, VERTICAL PANELS, OR DRUMS SHALL NOT BE USED IN THE SAME TAPER OR CLOSURE). HOWEVER, DIFFERENT DELINEATION DEVICES MAY BE USED IN DIFFERENT AREAS OF THE PROJECT.
- 19. THE MAXIMUM SPACING OF DELINEATORS, IN FEET, IS 1.0 TIMES THE CONSTRUCTION ZONE SPEED LIMIT FOR TAPERS AND 2.0 TIMES THE SPEED LIMIT FOR TANGENTS UNLESS OTHERWISE INDICATED BY THE PLANS OR ENGINEER.

**TRAFFIC CONTROL GENERAL NOTES**

**GENERAL (CONT.)**

- 20. THE ENGINEER SHALL COORDINATE ANY UTILITY WORK, SUBCONTRACTOR WORK, PUBLIC MAINTENANCE, OR OTHER CONSTRUCTION OPERATIONS IN THE AREA. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT PROPER TRAFFIC CONTROL IS OBTAINED FOR ALL CONDITIONS.
  - 21. ALL ROADWAY AREAS TEMPORARILY CLOSED FOR TRENCH, CULVERT, OR CONDUIT EXCAVATION SHALL BE REOPENED AT THE END OF THE WORKDAY. AT ALL TIMES WHEN WORK IS NOT IN PROGRESS, ALL OPENINGS IN THE ROADWAY SHALL BE COVERED WITH ANCHORED STEEL PLATES OR SHALL BE BACKFILLED.
  - 22. WHEN TWO OR MORE WORK AREAS ARE ADJACENT, OVERLAP, OR ARE IN CLOSE PROXIMITY AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL ENSURE THERE IS NO CONFLICTING SIGNAGE AND THAT LANE CONTINUITY IS MAINTAINED THROUGHOUT ALL WORK AREAS.
  - 23. DROP OFF PROTECTION IN CONSTRUCTION AREAS SHALL CONFORM TO VTRANS STANDARD SHEET T-1, T-35 AND T-36.
  - 24. TERMINALS OF TEMPORARY TRAFFIC BARRIERS SHALL BE EXTENDED BEYOND THE CLEAR ZONE WHEN POSSIBLE. IF TERMINALS CAN NOT BE EXTENDED BEYOND THE CLEAR ZONE, THEN ENERGY ABSORPTION ATTENUATORS SHALL BE PROVIDED AS DIRECTED BY THE ENGINEER AND SHALL BE CONSIDERED INCIDENTAL TO ITEM 900.645 TRAFFIC CONTROL, ALL-INCLUSIVE.
  - 25. IN ACCORDANCE WITH SECTION 641, THE CONTRACTOR SHALL MAINTAIN DRAINAGE FACILITIES AND OTHER HIGHWAY ELEMENTS. THE CONTRACTOR SHALL DEVOTE PARTICULAR ATTENTION TO ALL DRAINAGE FACILITIES TO KEEP THEM FULLY OPERATIVE AT ALL TIMES (INCLUDING WORK AREAS). ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 900.645 TRAFFIC CONTROL, ALL-INCLUSIVE.
- EMERGENCY ACCESS**
- 26. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR MUST PROVIDE SAFE AND CONVENIENT EMERGENCY ACCESS. LOCAL FIRE, POLICE AND AMBULANCE AGENCIES SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK IN ORDER TO COORDINATE AND MAINTAIN SUFFICIENT EMERGENCY ROUTES.
  - 27. THE CONTRACTOR SHALL SUBMIT TO THE APPROPRIATE LAW ENFORCEMENT AND EMERGENCY AGENCIES IN WRITING THE NAME, ADDRESS, AND TELEPHONE NUMBER OF THE PERSON OR PERSONS AUTHORIZED TO SECURE LABOR, MATERIALS AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE THE NORMAL WORKING HOURS. DUPLICATE COPIES OF THE ABOVE SHALL BE FILED WITH THE ENGINEER.
- PUBLIC INGRESS AND EGRESS**
- 28. THE CONTRACTOR SHALL PROVIDE PROPERTY OWNERS WITH PROPER ACCESS TO THEIR DRIVEWAYS AND SHALL MAINTAIN THEM THROUGH ALL TEMPORARY TRAFFIC CONTROL ZONES AND SHALL DELINEATE THEM BY MEANS OF SIGNS, CONES AND/OR DRUMS AND POST FLAGGERS AS DIRECTED BY THE ENGINEER.
  - 29. WHERE DIRECT ACCESS TO DRIVEWAYS IS NOT POSSIBLE DUE TO NECESSARY CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PLAN ALTERNATE MEANS OF ACCESS AND SUBMIT SUCH PLANS FOR APPROVAL BEFORE OPERATIONS COMMENCE. THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 900.645 - SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE).
  - 30. LEFT TURNS IN AND OUT OF DRIVEWAYS DO NOT NEED TO BE MAINTAINED IN AREAS WHERE EXCAVATION OR PAVING OPERATIONS ARE ON-GOING. AT THE END OF THE CONSTRUCTION DAY, ACCESS ACROSS THE WORK ZONE WILL BE RESTORED.
  - 31. THE CONTRACTOR SHALL NOTIFY THE OWNERS/USERS OF DRIVEWAYS AT LEAST 24 HOURS IN ADVANCE OF ANY WORK TO BE DONE AT THAT LOCATION. COMMERCIAL ESTABLISHMENTS SHALL HAVE A MINIMUM OF ONE DRIVEWAY OPEN AT ALL TIMES DURING NORMAL BUSINESS HOURS. THE CONTRACTOR HAS THE RESPONSIBILITY OF MAINTAINING SAFE AND PROPER ACCESS TO BUILDINGS IN THE VICINITY OF CONSTRUCTION.
  - 32. NO DESIGNATED PEDESTRIAN ROUTES EXIST ON USE ROUTE 2 THROUGH THE PROJECT LIMITS, HOWEVER OCCASIONAL PEDESTRIAN TRAFFIC SHOULD BE EXPECTED. DURING LANE AND SHOULDER CLOSURES, TRAFFIC CONTROL PLANS SHALL PROVIDE FOR A MINIMUM 3 FOOT WIDE SHOULDER FOR PEDESTRIAN TRAFFIC WHEN POSSIBLE. DURING NIGHTTIME LANE CLOSURES WHEN SPACE DOES NOT ALLOW FOR A PEDESTRIAN CORRIDOR, THE CONTRACTOR SHALL PROVIDE DESIGNATED STAFF TO ESCORT THE OCCASIONAL PEDESTRIANS THROUGH THE WORK AREA. THIS WORK WILL BE CONSIDERED INCIDENTAL TO SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE). IF PEDESTRIAN TRAFFIC EXCEEDS AN AVERAGE OF 2 PEDESTRIANS CROSSING THE WORK AREA PER NIGHT SHIFT, THE ENGINEER WILL ORDER THE CONTRACTOR TO MAKE AN ADDITIONAL FLAGGER AVAILABLE FOR ESCORTING PEDESTRIANS, AND THAT WORK WILL BE PAID FOR UNDER ITEM 630.15 "FLAGGER".

- 33. THE COVERING AND/OR REMOVING, RELOCATING, AND REPLACING OF EXISTING SIGN PANELS AND ASSEMBLIES SHALL BE AS DIRECTED BY THE ENGINEER. PAYMENT SHALL BE INCIDENTAL TO ITEM 900.645 TRAFFIC CONTROL, ALL-INCLUSIVE. SIGNS WHICH ARE NOT APPLICABLE DURING NON-WORKING HOURS SHALL BE COVERED OR REMOVED FROM VIEW AS DIRECTED BY THE ENGINEER.
- 34. CARE SHOULD BE TAKEN NOT TO DAMAGE THE PERMANENT SIGNS IF THEY ARE COVERED. ANY SIGN SO DAMAGED SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
- 35. ADVANCE POSTING DISTANCE FOR SIGNS SHALL BE PER VTRANS STANDARD SHEETS T-1, T-10, T-17, T-28, T-29, T-30 AND T-31.
- 36. ALL CONSTRUCTION SIGNS SHALL BE BLACK LETTERS ON REFLECTORIZED FLUORESCENT ORANGE BACKGROUND, AS IN SPECIFIED VTRANS STANDARDS.
- 37. SIGN MOUNTING HEIGHT SHALL BE 7 FEET IN ALL AREAS WHERE PEDESTRIANS AND PARKED CARS ARE ENCOUNTERED, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 38. EXISTING SIGNING SHALL REMAIN, WITH RELOCATION AS NECESSARY, UNTIL IT IS NO LONGER NEEDED. TEMPORARY SIGNING SHALL BE ADDED, AS NEEDED AND AS REQUIRED BY THE M.U.T.C.D. NEW SIGNING SHALL BE INSTALLED AS IT BECOMES APPLICABLE AND AS CONSTRUCTION NEARS COMPLETION IN EACH STAGE.
- 39. THE CONTRACTOR SHALL PROVIDE TEMPORARY SIGNS FOR DIRECTING MOTORISTS TO THE ENTRANCES TO BUSINESSES ALONG THE CORRIDOR. SIGNS SHALL BE RECTANGULAR WITH WHITE TEXT ON BLUE BACKGROUND. SIGNS SHALL INCLUDE THE NAME OF THE BUSINESS WITH ARROW POINTING IN THE DIRECTION OF THE BUSINESS. LETTER HEIGHTS SHALL NOT EXCEED 4". SIGNS SHALL BE INSTALLED ON AN NCHRP 350 COMPLIANT SIGN STAND. THESE SIGNS SHALL BE MOVED AND/OR ALTERED AS APPROPRIATE FOR EACH STAGE OF CONSTRUCTION. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 900.645 TRAFFIC CONTROL, ALL-INCLUSIVE.

**FLAGGING AND UNIFORMED TRAFFIC OFFICERS**

- 40. THE CONTRACTOR SHALL PROVIDE FLAGGERS FOR ONE LANE TRAFFIC CONTROL, AND AT LOCATIONS WHERE SIGHT DISTANCES ARE IMPAIRED BY CONSTRUCTION OPERATIONS OR OTHER SITUATIONS PAID AS ITEM 630.15 FLAGGERS. UNIFORMED TRAFFIC OFFICER SHALL BE PROVIDED DURING LANE CLOSURES PAID AS ITEM 630.10 UNIFORMED TRAFFIC OFFICERS.
- 41. FLAGGING STATIONS SHALL BE ADJACENT TO THE TRAFFIC LANES BEING CONTROLLED AND SHALL BE POSITIONED SO THAT FLAGGER VISIBILITY TO APPROACHING TRAFFIC IS OPTIMIZED. THE FLAGGER SHALL BE READILY VISIBLE TO APPROACHING TRAFFIC BETWEEN 250 FEET AND 300 FEET IN ADVANCE OF THE FLAGGER LOCATION. ACCORDINGLY, THE TANGENT DIMENSIONS ON EACH END OF THE WORK AREA SHALL BE ESTABLISHED TO ACHIEVE THE APPROPRIATE FLAGGING STATION LOCATION, AS DIRECTED BY THE ENGINEER.
- 42. FLAGGERS SHALL BE REQUIRED TO USE TWO-WAY RADIOS, WALKIE-TALKIES OR OTHER FORMS OF ENHANCED COMMUNICATION WHEN ONE FLAGGER IS NOT VISIBLE TO THE OTHER, OR IF THE ENGINEER DEEMS IT NECESSARY.
- 43. STOP/SLOW PADDLES SHALL BE USED FOR ALL FLAGGING, AND SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE M.U.T.C.D. AND STATE STANDARD T-30.
- 44. FLAGGER STATIONS FOR NIGHT WORK SHALL BE ILLUMINATED TO A MINIMUM CATEGORY ONE (5 FOOTCANDLES) ILLUMINANCE LEVEL PER NCHRP REPORT 476.

**NIGHT WORK**

- 45. NIGHT WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 476 - "GUIDELINES FOR DESIGN AND OPERATION OF NIGHTTIME TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE AND CONSTRUCTION". REFER TO THE CONTRACT SPECIAL PROVISION FOR COMPLETE LIST OF REQUIREMENTS FOR WORKING AT NIGHT. ALL COSTS ASSOCIATED WITH THE DESIGN, APPROVAL AND IMPLEMENTATION OF THE LIGHTING SYSTEM WILL BE CONSIDERED INCIDENTAL TO CONTRACT ITEM 900.645 SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE).

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PROJECT NUMBER:	BF EWP2(1)
FILE NAME: z98b252+mp_det - ER.dgn	PLOT DATE: 5/26/2016
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TRAFFIC CONTROL PLAN - TC 1	SHEET 27 OF 42

