

TRAFFIC CONTROL NOTES

INTRODUCTION

THE FOLLOWING TRAFFIC CONTROL INFORMATION OUTLINES GENERAL AND PHASE SPECIFIC REQUIREMENTS FOR TRAFFIC CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SPECIFIC DETAILS TO THE RESIDENT ENGINEER TO ADDRESS SPECIFIC SITUATIONS. IF THE CONTRACTOR DOES NOT WISH TO FOLLOW THE REQUIREMENTS IN THIS OUTLINE, HE/SHE MAY SUBMIT AN ALTERNATE PROPOSAL AT LEAST TWO (2) WEEKS PRIOR TO IMPLEMENTING THE PROPOSED CHANGES FOR REVIEW BY THE RESIDENT ENGINEER. ALL TRAFFIC CONTROL PLANS AND DETAILS MUST BE DESIGNED AND IMPLEMENTED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND VTRANS STANDARDS E-100, E-101, E-102, E-103, E-106, E-107, E-107A, E-108, E-110, AND E-111.

GENERAL

1. TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 641 OF THE STANDARD SPECIFICATIONS, THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), ITS REVISIONS AND AMENDMENTS, ANY PROVISION IN THE PLANS AND/OR PROPOSAL OF THIS PROJECT, AND THE STATE OF VERMONT STANDARDS. THE TRAFFIC CONTROL FOR THIS PROJECT SHALL BE COORDINATED THROUGH THE RESIDENT ENGINEER TO ACCOMMODATE THE TRAFFIC CONTROL SIGNING FOR THE HARTFORD LANDFILL BRIDGE OVER I-91 WHICH IS CURRENTLY UNDER CONSTRUCTION.
2. THE TRAFFIC CONTROL PLANS ARE CONSIDERED THE MINIMUM REQUIREMENTS FOR SAFE OPERATIONS. ADDITIONAL SIGNS AND/OR TRAFFIC CONTROL DEVICES MAY BE REQUIRED AS DETERMINED BY THE ENGINEER.
3. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO AVOID DAMAGING EXISTING PAVEMENT, CURBS AND SIDEWALK WHEN IT IS NECESSARY TO MOVE EQUIPMENT THROUGH LOCAL STREETS. THE CONTRACTOR SHALL OBSERVE THE RULES, REGULATIONS AND DIRECTIONS OF THE LOCAL MUNICIPALITIES REGARDING THE HANDLING OF EQUIPMENT AND SHALL TAKE SUCH PROTECTIVE MEASURES AS MAY BE ORDERED BY THE ENGINEER. DAMAGES INCURRED BY THE CONTRACTOR THROUGH DISREGARD SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE.
4. VEHICLES/EQUIPMENT PARKED WITHIN THE PROJECT LIMITS BELONGING TO THE CONTRACTOR AND/OR HIS EMPLOYEES SHALL BE KEPT TO A MINIMUM AND PARKED IN SUCH A MANNER THAT DOES NOT OBSTRUCT THE VIEW OF SIGNS, BARRIERS, BARRICADES OR ANY OTHER TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL NOT PARK VEHICLES/EQUIPMENT OR STORE MATERIALS IN ANY LOCATION WHERE IT IS DEEMED A SAFETY HAZARD BY THE ENGINEER.
5. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION OPERATIONS WITH THE ACTIVITIES OF THE UTILITY COMPANIES AND OTHER ENTITIES AFFECTED BY THE CONSTRUCTION.
6. ANY EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE CURRENT TRAFFIC CONTROL LAYOUT SHALL BE MASKED BY BLACK MASKING TAPE BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. PAINTING OUT, BURNING OR GRINDING EXISTING LINES WILL NOT BE ACCEPTABLE.
7. LANE WIDTHS THROUGH CONSTRUCTION ZONES SHALL BE A MINIMUM OF 10 FEET AS MEASURED FROM THE TRAFFIC SIDE FACE OF CHANNELIZING DEVICES OR BARRIERS.
8. CONTRACTOR SHALL MAINTAIN TRAVEL LANE WIDTH OF 12 FEET WHENEVER POSSIBLE. "ROAD NARROWS" SIGNS SHALL BE INSTALLED IN ADVANCE OF TWO WAY TRAFFIC OPERATIONS THROUGH THE CONSTRUCTION ZONE IF LANE WIDTHS ARE TO BE LESS THAN 12 FEET.
9. CONTRACTOR MUST PROVIDE ACCESS THROUGH WORK ZONES FOR EMERGENCY VEHICLES AT ALL TIMES. WHEN A LONGITUDINAL DROP-OFF CONDITION EXISTS ADJACENT TO THE TRAVEL LANE, CONTRACTOR SHALL UTILIZE NECESSARY CHANNELIZING DEVICES OR BARRIERS IN ACCORDANCE WITH VTRANS STANDARD E-108.
10. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE USED IN ADVANCE OF CONSTRUCTION APPROACHES TO WARN MOTORISTS OF CONSTRUCTION ZONE, SPEED REDUCTIONS (IF NECESSARY), LANE SHIFTS, ETC.
11. CONTRACTOR SHALL MAINTAIN ACCESS TO PROPERTIES AND SIDE ROADS AT ALL TIMES FOR EMERGENCY VEHICLES. IF A TEMPORARY CLOSURE IS REQUIRED, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE RESIDENT ENGINEER AND THE PROPERTY OWNER AT LEAST 2 WEEKS PRIOR TO TEMPORARY CLOSURE.
12. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST DEVELOP A MAINTENANCE OF ACCESS AND PARKING PLAN FOR ALL EXISTING BUSINESSES TO MINIMIZE THE LOSS OF BUSINESS. CLEAR SIGNAGE MUST BE PROVIDED.
13. WORK HOURS SHALL BE RESTRICTED TO 6:00 AM TO 8:00 PM MONDAY THROUGH SATURDAY, EXCEPT DURING HOLIDAY PERIODS. THE HOLIDAY PERIOD SHALL BEGIN AT 12:00 NOON ON THE DAY BEFORE THE WEEKEND OR HOLIDAY, WHICH EVER APPLIES, AND SHALL END AT 7:00 AM ON THE DAY AFTER THE HOLIDAY OR THE WEEKEND, AS APPROPRIATE. ANTICIPATED HOLIDAYS OR WEEKENDS INCLUDE BUT ARE NOT LIMITED TO MEMORIAL DAY (BOTH OBSERVED DAYS), THE FOURTH OF JULY, LABOR DAY AND COLUMBUS DAY. THE CONTRACTOR SHALL WORK NIGHT TIME HOURS (AFTER 8:00 PM AND BEFORE 6:00 AM) ONLY WHEN APPROVED BY THE TOWN AND/OR THE RESIDENT ENGINEER. THE CONTRACTOR SHALL REQUEST APPROVAL AT LEAST ONE WEEK PRIOR TO BEGINNING NIGHT WORK. THE CONTRACTOR SHALL NOT CARRY ON CONSTRUCTION OPERATIONS ON SUNDAY EXCEPT AS AUTHORIZED BY THE ENGINEER. THE ABOVE LIMITATIONS WILL NOT APPLY FOR THE PURPOSES OF MAINTENANCE, EMERGENCY REPAIRS, AND PROPER PROTECTION OF THE WORK, WHICH INCLUDES, BUT IS NOT LIMITED TO, THE CURING OF CONCRETE AND FOR THE REPAIRING AND SERVICING OF EQUIPMENT. THE ABOVE LIMITATIONS IN NO MANNER WHATSOEVER RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY FOR THE WORK INVOLVED AS SET FORTH IN SUBSECTION 107.18, OR IN ANY OTHER APPLICABLE REQUIREMENT.
14. THE CONTRACTOR SHALL CONDUCT THE WORK AT ALL TIMES IN SUCH A MANNER AND IN SUCH SEQUENCE SO AS TO ENSURE THE LEAST INTERFERENCE WITH TRAFFIC. THE CONTRACTOR SHALL HAVE DUE REGARD TO THE LOCATION OF DETOURS AND TO THE PROVISIONS FOR HANDLING TRAFFIC. THE CONTRACTOR SHALL NOT OPEN UP WORK TO THE PREJUDICE OR DETRIMENT OF WORK ALREADY STARTED. THE ENGINEER MAY REQUIRE THE CONTRACTOR TO FINISH A SECTION ON WHICH WORK IS IN PROGRESS BEFORE WORK IS STARTED ON ANY ADDITIONAL SECTIONS IF THE OPENING OF SUCH SECTION IS ESSENTIAL TO PUBLIC CONVENIENCE.
15. WORK ZONE SAFETY SHALL BE PROVIDED FOR PEDESTRIANS. IN GENERAL, PEDESTRIANS SHOULD SEEK ALTERNATE ROUTES AS APPROPRIATE. IF THIS IS NOT ACHIEVABLE AND PEDESTRIANS NEED TO ENTER AND TRAVERSE THE WORK ZONE, AN ESCORT WEARING APPROPRIATE PROTECTIVE DEVICES SHALL PROVIDE A SAFETY ESCORT THROUGH THE WORK ZONE.
16. THE BID PRICE FOR PAY ITEM 641.10 TRAFFIC CONTROL SHALL BE PAID FOR AS A LUMP SUM, AND SHALL INCLUDE ALL CONSTRUCTION OF THE FOLLOWING APPROACH & ON-PROJECT CONSTRUCTION SIGNS WITH YIELDING POSTS, BARRELS, CONES, BARRICADES, DELINEATORS, OBJECT MARKERS, REMOVE AND RESET TEMPORARY TRAFFIC BARRIER, TEMPORARY REGULATORY AND WARNING SIGNS AND POSTS, AND ALL ADJUSTING, RELOCATING AND REMOVING OF THESE DEVICES. TEMPORARY ROADWAY WIDENING, INCLUDING SUBBASE AND PAVEMENT WILL ALSO BE INCLUDED. TEMPORARY PAVEMENT MARKINGS DEEMED TO BE REQUIRED BY THE RESIDENT ENGINEER SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 646 AND SHALL BE INCIDENTAL TO PAY ITEM 641.10, TRAFFIC CONTROL.
17. THE FOLLOWING ITEMS WILL BE PAID FOR UNDER THEIR SPECIFIC BID PRICES.

-621.90 - TEMPORARY TRAFFIC BARRIER
-630.10 - UNIFORMED TRAFFIC OFFICERS
-630.15 - FLAGGERS
-641.15 - PORTABLE CHANGEABLE MESSAGE SIGN
-641.16 - PORTABLE ARROW BOARD
-646.86 - PAVEMENT MARKING MASK

FLAGGERS AND UNIFORM TRAFFIC OFFICERS

FLAGGERS SHALL BE REQUIRED TO ATTEND A 4 HOUR APPROVED TRAINING COURSE. THE CONTRACTOR SHALL PROVIDE THE RESIDENT ENGINEER WITH COPIES OF ALL DOCUMENTATION OF THE CERTIFICATION OBTAINED FOR EACH FLAGGER ON THE PROJECT.

ALL FLAGGERS OR UTO SERVING AS A TRAINED FLAGGER SHALL WEAR SAFETY APPAREL MEETING REQUIREMENTS OF ISEA "AMERICAN NATIONAL STANDARD OF HIGH-VISIBILITY APPAREL" AND LABELED AS MEETING THE ANSI 107-1999 STANDARD PERFORMANCE CLASS 2 RISK EXPOSURE. INDIVIDUALS ENGAGED IN TRAFFIC CONTROL SHALL WEAR THE HIGH VISIBILITY VEST WITH "TRAFFIC CONTROL" VISIBLE WITHOUT EXCEPTION.

UNIFORM TRAFFIC CONTROL OFFICERS OR TRAINED FLAG PERSONS SHALL DIRECT TRAFFIC WHENEVER REQUIRED.

NOTE THAT THE UTO, UNDER AUTHORITY GRANTED BY LAW (TITLE 23 VSA) MAY DIRECT AND CONTROL TRAFFIC. SUITABLE EXAMPLES IN WORK ZONES MIGHT INCLUDE THE DIRECTION AND CONTROLS OF TRAFFIC AT INTERSECTIONS WHERE SIGNALS ARE NOT FUNCTIONING OR ARE MALFUNCTIONING. IN THESE CASES, THE PRESENCE OF THE BLUE LIGHT MAY NOT BE SUITABLE OR NECESSARY. THE WEARING OF DEPARTMENTALLY REQUIRED AND APPROVED REFLECTIVE GARMENTS IS REQUIRED.

FLAGGERS ARE ALLOWED TO STOP AND RELEASE TRAFFIC AS INDICATED IN THE 2003 MUTCD, SECTION 6E.04 FLAGGER PROCEDURES.

SIGNAGE

1. SIGNS SHOWN ON THIS PLAN ARE INTENDED TO WARN MOTORISTS IN ADVANCE OF THE CONSTRUCTION ZONE. ADDITIONAL CONSTRUCTION SIGNS WILL BE REQUIRED TO WARN AND GUIDE MOTORISTS ABOUT AND THROUGH THE CONSTRUCTION ZONE DURING SPECIFIC CONSTRUCTION PHASES.
2. SEE VTRANS STANDARDS E-100, E-100A, E-101, E-102, E-102A, E-106, E-107, E-108 FOR SIGN PLACEMENT.
3. CONSTRUCTION APPROACH SIGNING SHALL BE INCIDENTAL TO PAY ITEM 641.10 TRAFFIC CONTROL.
4. INTERSTATE 91 CONSTRUCTION APPROACH SIGNS SHALL BE REMOVED UPON COMPLETION OF REST AREA WORK.
5. WORK ZONE SIGNS SHALL NOT OBSCURE EXISTING TRAFFIC CONTROL DEVICES.
6. ALL DIAMOND SHAPED SIGNS SHALL BE A MINIMUM OF 48" x 48" AND INSTALLED ON TWO POSTS EACH.
7. ALL CONSTRUCTION SIGNS SHALL BE NEW OR IN LIKE-NEW CONDITION.

PHASING

THE INTENTION OF THIS TRAFFIC MAINTENANCE PLAN IS TO PROVIDE THE CONTRACTOR WITH A LOGICAL, SUCCESSIVE PLAN THAT DEMONSTRATES HOW TO CONSTRUCT THE PROJECT AND MAINTAIN TRAFFIC FLOW ALONG THE ENTIRE PROJECT CORRIDOR.

THE CONTRACTOR SHALL PROVIDE ADDITIONAL PLAN AND PROJECT SEQUENCING, WHICH SHALL BE APPROVED BY THE ENGINEER. THIS WILL BE THE CASE, SPECIFICALLY, BUT NOT LIMITED TO INTERSECTIONS.

THE CONTRACTOR IS ENCOURAGED TO CONCENTRATE CONSTRUCTION EFFORTS ALONG LOGICAL SEGMENTS OF THE PROJECT AND COMPLETE ALL STAGES OF THE PLAN IN ONE AREA PRIOR TO BEGINNING WORK IN OTHER AREAS.

PHASE 1

1. CORE DRILL CONNECTION TO EXISTING MANHOLE AT STA. 610+54. CONSTRUCT GRAVITY SEWER FROM STA. 610+54 TO STA. 600+00.
2. CONSTRUCT FORCE MAIN FROM STA. 507+98 TO STA. 500+00. CONNECT TO EXISTING PIPE AT STA. 500+00.
3. RESET SALVAGED SIGNS AND RELOCATED MAILBOXES BETWEEN STA. 500+00 AND STA. 610+54.
4. USE FLAGGED CONSTRUCTION WHEN NECESSARY

PHASE 2

1. CORE DRILL CONNECTION TO EXISTING MANHOLE AT STA. 417+69 ALONG MELISI ROAD. CONSTRUCT GRAVITY SEWER FROM STA. 417+69 TO STA. 400+00.
2. REPAIR ANY DAMAGED AREAS ALONG MELISI ROAD.
3. CONSTRUCT GRAVITY SEWER FROM STA. 0+00 TO STA. 3+29, CONNECTING TO MH 8 AT STA. 401+09.
4. CONSTRUCT FORCE MAIN FROM STA. 353+56 TO STA. 300+27.
5. RESET SALVAGED SIGNS AND RELOCATED MAILBOXES ALONG U.S. ROUTE 5 BETWEEN STA. 300+27 AND STA. 353+56.
6. CONSTRUCT PUMP STATION AT STA. 300+27.
7. USE FLAGGED CONSTRUCTION WHEN NECESSARY

PHASE 3

1. CONSTRUCT GRAVITY SEWER FROM STA. 216+94 TO STA. 203+14.
2. CONSTRUCT FORCE MAIN FROM STA. 200+00 TO STA. 203+14.
3. CONSTRUCT PUMP STATION 2 AT SOUTHBOUND REST AREA STA. 200+00. REST AREA TRAFFIC TO BE MAINTAINED DURING CONSTRUCTION.

PHASE 4 (MAY BE COMBINED WITH OTHER PHASES - COORDINATE WITH THE RESIDENT ENGINEER)

1. CONSTRUCT PUMP STATION 1 AT THE NORTHBOUND REST AREA STA. 100+00. REST AREA TRAFFIC TO BE MAINTAINED DURING CONSTRUCTION.
2. DIRECTIONAL DRILL STA. 100+48 TO STA. 106+04 UNDER INTERSTATE 91.
3. CONSTRUCT FORCE MAIN FROM STA. 100+00 TO CONNECTION OF HDPE PIPE ON NORTHBOUND SIDE OF INTERSTATE 91.
4. CONSTRUCT FORCE MAIN FROM HDPE CONNECTION ON SOUTHBOUND SIDE OF INTERSTATE 91 TO STA. 106+88. COORDINATE ALL WORK ASSOCIATED WITH THE REST AREA FACILITY WITH THE BGS ATTENDANT.



PROJECT NAME: HARTFORD REST AREAS

PROJECT NUMBER: IM BLDG(10)

FILE NAME: ...\\plot files\04026tc..notes.plot DATE: 5/19/2008

PROJECT LEADER:

DRAWN BY:

DESIGNED BY:

CHECKED BY:

TRAFFIC CONTROL NOTES

SHEET 58 OF 70