

GENERAL

ROADWAY WORK ON VT ROUTE 100 AND A PORTION OF ALT VT ROUTE 100 AT THE INTERSECTION OF BISHOP MARSHALL DRIVE AND VT ROUTE 100 (LAPORTE ROAD) CONSISTS OF THE WIDENING OF VT ROUTE 100 FOR A NORTHBOUND RIGHT-TURN LANE AND THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL. THIS WILL REQUIRE ADDITIONAL WORK ON THE EXISTING PEDESTRIAN CULVERT AND VT ROUTE 100 (LAPORTE ROAD) AS DESCRIBED BELOW.

ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SEVENTEENTH EDITION, AND ITS LATEST REVISIONS.

ROADWAY WIDENING

VT ROUTE 100 AND ALT VT ROUTE 100 WILL BE WIDENED TO PROVIDE A NORTHBOUND RIGHT-TURN LANE. THIS WORK WILL REQUIRE THE REMOVAL AND RELOCATION OF THE EXISTING GUARDRAIL, EXCAVATION OF THE EXISTING SHOULDER, PLACEMENT OF SUBBASE MATERIAL, SLOPE WORK, AND PAVING. TO FACILITATE THE RESTRIPING OF THE INTERSECTION A PORTION OF VT ROUTE 100 AND ALT VT ROUTE 100 WILL BE COLD PLANED AND OVERLAYED. THE COLD PLANE AND OVERLAY WILL BE THE FULL WIDTH OF THE ROADWAY FROM STA. 14+50 TO STA. 19+75. THE COLD PLANE WILL RUN PAST BISHOP MARSHALL DRIVE AND VT ROUTE 100 (LAPORTE ROAD) ALONG THE EXISTING EDGE OF PAVEMENT LINE OF VT ROUTE 100 AND ALT VT ROUTE 100.

TO FACILITATE THE ROADWAY WIDENING ALONG VT ROUTE 100 IT WILL BE NECESSARY TO MODIFY THE HEADWALL AND WINGWALLS ON THE EAST END OF THE EXISTING PEDESTRIAN CULVERT AS DESCRIBED BELOW UNDER THE WORK ON THE EXISTING PEDESTRIAN CULVERT SECTION.

RECONSTRUCTION OF VT ROUTE 100 (LAPORTE ROAD)

AS PART OF THIS PROJECT A SECTION OF VT ROUTE 100 (LAPORTE ROAD) WILL BE RECONSTRUCTED IN ORDER TO CHANGE THE EXISTING PROFILE AND CROSS SECTIONS AS THE ROADWAY APPROACHES THE INTERSECTION. THE WORK ON VT ROUTE 100 (LAPORTE ROAD) WILL START AT STA 1+22.55 AND EXTEND TO STA 5+85.55. THE WORK WILL CONSIST OF THE REMOVAL OF THE EXISTING PAVEMENT SURFACE, THE SHIMMING OF THE EXISTING DENSE GRADED CRUSHED GRAVEL SUBBASE TO THE GRADES SHOWN ON THE PROFILE AND CROSS SECTIONS. AFTER THE ROADWAY GRADES HAVE BEEN ADJUSTED THE ROADWAY WILL BE PAVED WITH A TOTAL OF 8 INCHES OF BITUMINOUS CONCRETE PAVEMENT AS SHOWN ON THE TYPICAL SECTION.

IN ADDITION, A NEW CONCRETE TRUCK APRON, AS SHOWN ON THE DETAIL SHEET, WILL BE CONSTRUCTED ON THE NORTHEAST CORNER OF THE INTERSECTION, AS SHOWN ON THE LAYOUT PLAN. SEE THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

WORK ON EXISTING PEDESTRIAN CULVERT

TO FACILITATE THE ROADWAY WIDENING IT WILL BE NECESSARY TO MODIFY THE EXISTING HEADWALL AND WINGWALLS (#'s 3&4) ON THE EAST END OF THE EXISTING PEDESTRIAN CULVERT. THIS WORK WILL INCLUDE DRILLING AND GROUTING DOWELS INTO THE EXISTING HEADWALL AND WINGWALLS, PLACING NEW REINFORCING STEEL, AND PLACING NEW CONCRETE AS SHOWN ON THE PEDESTRIAN CULVERT DETAIL SHEET.

IN ADDITION, A NEW VIDEO SURVEILLANCE CAMERA SYSTEM WILL BE INSTALLED ON THE INSIDE OF THE EXISTING PEDESTRIAN CULVERT. SEE THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

LASTLY THE WORK ON THE EXISTING PEDESTRIAN CULVERT WILL INCLUDE MODIFICATIONS TO THE EXISTING LIGHTING SYSTEM IN ORDER TO INSTALL MOTION SENSORS.

NEW TRAFFIC SIGNAL

WORK AT THE INTERSECTION WILL INCLUDE THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL, VEHICLE STOP BAR AND ADVANCED DETECTION, PULLBOXES, CONDUIT INSTALLATION OF NEW SIGNS. CONDUIT RUNS INSTALLED UNDER THE EXISTING ROADWAYS, INCLUDING VT ROUTE 100, BISHOP MARSHALL DRIVE, AND VT ROUTE 100 (LAPORTE ROAD), SHALL BE ACCOMPLISHED USING HORIZONTAL DIRECTIONAL DRILLING USING A 12" CASING. SEE THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION ON THE HORIZONTAL DIRECTIONAL DRILLING.

MODIFICATION OF EXISTING TRAFFIC SIGNAL SYSTEM, INTERSECTION

THIS WORK INCLUDES MODIFICATIONS TO THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF ALT VT ROUTE 100 AND BRIDGE STREET IN THE TOWN OF MORRISTOWN. THE WORK WILL INCLUDE THE REMOVAL OF THE EXISTING 3-SECTION LEFT-TURN SIGNAL HEADS ON ALT VT ROUTE 100 IN BOTH THE NORTHBOUND AND SOUTHBOUND DIRECTION AND THE INSTALLATION OF NEW 4-SECTION SIGNAL HEADS TO FACILITATE CHANGING THE OPERATION OF THE SIGNAL TO ALLOW FOR PERMISSIVE /PROTECTED LEFT-TURN PHASING ON ALT VT ROUTE 100 USING THE FLASHING YELLOW ARROW CONFIGURATION. WORK WILL ALSO INCLUDE MAKING CHANGES TO THE EXISTING SIGNAL CONTROLLER, SIGNAL TIMING, AND PHASINGS TO ACCOMMODATE THE FLASHING YELLOW ARROW SIGNAL OPERATION.

WORK ON BISHOP MARSHALL DRIVE

THE WORK ON BISHOP MARSHALL DRIVE INCLUDES THE REMOVAL OF A PORTION OF THE EXISTING PAVEMENT ALONG THE SHOULDERS IN ORDER TO NARROW THE PAVEMENT APPROACH, THE REMOVAL AND RELOCATION OF THE EXISTING GUARDRAIL FROM STA. 100+21.4 TO STA 100+90.0 AS SHOWN ON THE LAYOUT PLANS (HATCHED AREA), AND THE REMOVAL OF THE EXISTING PAVEMENT MARKINGS WITHIN THE PROJECT LIMITS AND THE PLACEMENT OF NEW PAVEMENT MARKINGS.

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FILE NAME: z15+047gen.dgn
PROJECT LEADER: J. SANTACRUCE
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PROJECT NOTES

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