

GENERAL NOTES:

- PROJECT INCLUDES WORK AT TWO SEPARATE AT-GRADE RAILROAD CROSSINGS ALONG U.S. ROUTE 7. THE WORK TO BE PERFORMED AT EACH CROSSING IS OUTLINED BELOW:

GRADE CROSSING AARDOT 85I-367U IS LOCATED AT MP 95.27 ON THE VERMONT RAILWAY NORTHERN SUBDIVISION WHICH IS LOCATED ON U.S. ROUTE 7, MM 5.47 IN THE TOWN OF NEW HAVEN. THE WORK TO BE PERFORMED AT THIS CROSSING INCLUDES THE UPGRADING OF THE EXISTING SIGNING AND STRIPING ON THE HIGHWAY APPROACHES.

GRADE CROSSING AARDOT 85I-375L IS LOCATED AT MP 100.04 ON THE VERMONT RAILWAY NORTHERN SUBDIVISION WHICH IS LOCATED ON U.S. ROUTE 7, MM 0.81 IN THE TOWN OF FERRISBURGH. THE WORK TO BE PERFORMED AT THIS CROSSING INCLUDES THE RECONSTRUCTION OF THE EXISTING AT-GRADE CROSSING SURFACE AND ASSOCIATED RAILROAD APPROACHES, THE REMOVAL AND INSTALLATION OF A NEW GRADE CROSSING WARNING SYSTEM IN ITS ENTIRETY INCLUDING THE REPLACEMENT OF THE EXISTING CANTILEVER SIGNALS WITH NEW CANTILEVER SIGNALS. WORK WILL ALSO INCLUDE SITE GRADING AND THE UPGRADING OF THE EXISTING SIGNING AND STRIPING ON THE HIGHWAY APPROACHES.
- SEE SHEET 82 FOR PRECAST CONCRETE GRADE PANEL CROSSING DETAILS. TYPE AND DESIGN OF PRECAST CONCRETE CROSSING PANELS SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL TO VAOT AND THE VERMONT RAIL SYSTEM. MANUFACTURER'S SPECIFICATIONS SHALL BE FOLLOWED FOR THE INSTALLATION OF CONCRETE CROSSING PANELS. THE CONTRACTOR SHALL APPLY A PROTECTIVE SEALER TO ALL EXPOSED CONCRETE SURFACES AFTER THE PRECAST CONCRETE GRADE CROSSING HAS BEEN INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE MADE UNDER ITEM 514.10 WATER REPELLENT, SILANE.
- THE TYPE AND DESIGN OF COMMERCIAL FLANGWAY MATERIALS SHALL RECEIVE APPROVAL FROM THE ENGINEER. MANUFACTURER'S SPECIFICATIONS SHALL BE FOLLOWED FOR THE INSTALLATION OF COMMERCIAL FLANGWAY MATERIALS. THE CONTRACTOR SHALL INSTALL THE ELASTOMERIC INTERFACE RAIL SEAL CONNECTED BY AN INTERCLAMP DEVICE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THESE DETAILS DO NOT ILLUSTRATE THE INTERCLAMP DEVICES. ANY DAMAGE TO THE NEW ELASTOMERIC INTERFACE RAIL RESULTING FROM THE CONTRACTOR'S INSTALLATION METHODS SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE AS DIRECTED BY THE ENGINEER. THE COST OF FURNISHING AND INSTALLING THE ELASTOMERIC INTERFACE RAIL SEAL AND ATTACHMENT HARDWARE WILL BE CONSIDERED INCIDENTAL TO ITEM 900.645 SPECIAL PROVISION (PRECAST CONCRETE PANEL GRADE CROSSING SURFACE) (AARDOT 85I-375L).
- THE COST OF PAVING THE THREE LIFTS (SEE SHEET 81) OF SUPERPAVE BITUMINOUS CONCRETE PAVEMENT AT THE RAIL APPROACHES WILL BE PAID FOR UNDER ITEM 900.680 SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY).

- A MINIMUM OF 15 DAYS PRIOR TO BEGINNING WORK ON THIS RAIL CROSSING THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH VERMONT RAIL SYSTEM. THE CONTRACTOR SHALL HAVE THE TRACK BACK IN SERVICE AT THE END OF EACH WORK PERIOD. THE COST FOR COORDINATION WITH VERMONT RAIL SYSTEM WILL BE CONSIDERED INCIDENTAL TO ITEM 900.650 SPECIAL PROVISION (MAINTENANCE OF RAILROAD TRAFFIC) (N.A.B.I.).

THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE OF THE CROSSING WORK ACTIVITIES TO THE ENGINEER AND VERMONT RAIL SYSTEM FOR REVIEW AND APPROVAL. IT IS ANTICIPATED THAT DISRUPTIONS TO RAIL TRAFFIC SHALL BE MINIMIZED AND THAT THE WORK ASSOCIATED WITH THE RECONSTRUCTION OF THE GRADE CROSSING WILL BE COMPLETED WITHIN FIVE CONSECUTIVE WORKDAY PERIODS. THESE CROSSING WORK ACTIVITIES INCLUDING THE COORDINATION, REVIEW AND APPROVAL PROCESS INVOLVING VAOT AND VERMONT RAIL SYSTEM AND THE RECONSTRUCTION OF THE GRADE CROSSING WITHIN FIVE CONSECUTIVE WORK PERIODS SHALL BE INCLUDED IN WORK ACTIVITIES SUMMARIZED UNDER THE SCHEDULING OF THE CONTRACT WORK ITEM 900.620 SPECIAL PROVISION (CPM SCHEDULE).
- TIE PLATES SHALL BE MINIMUM 14" L x 7 3/4" W NEW OR FIT DOUBLE SHOULDERED TO FIT THE BASE OF THE RAIL ON WHICH THEY WILL BE USED. EACH TIE PLATE SHALL HAVE AT LEAST 6 HOLES PUNCHED FOR THE USE OF 5/8" TRACK SPIKES. FOUR OF THE HOLES SHALL BE SUCH THAT THEY ALLOW TWO RAIL HOLDING SPIKES ON EACH SIDE OF THE RAIL AND THERE SHALL ALSO BE AT LEAST TWO HOLES FOR PLATE HOLDING SPIKES. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NEW TIE PLATES, SPIKES AND RAIL ANCHORS AND PAYMENT WILL BE INCLUDED UNDER THE APPROPRIATE ITEM 900.620 SPECIAL PROVISION (REMOVAL AND REPLACEMENT OF CROSS TIES).
- THE CONTRACTOR SHALL PROVIDE NEW 136RE CWR THROUGH THE CONCRETE GRADE CROSSING AS SPECIFIED IN THE PLANS. RAIL WEIGHTS SHALL BE VERIFIED BY VERMONT RAIL SYSTEM AND APPROVED BY THE ENGINEER. ALL RAIL TO BE PAID FOR UNDER THE CONTINUOUS WELDED RAIL ITEM 900.640 SPECIAL PROVISION (CONTINUOUS WELDED RAIL).
- ALL WELDED JOINTS SHALL BE CROPPED AND WELDED IN ACCORDANCE WITH THE LATEST REVISION OF A.R.E.M.A. SPECIFICATIONS AT AN OFF-SITE ELECTRIC WELDING PLANT. WELDING CAN BE DONE IN FIELD UTILIZING THERMITE WELDING WITH ADVANCE APPROVAL FROM VAOT AND VERMONT RAIL SYSTEM. WELDED JOINTS SHALL BE GROUND TO CONFORM TO THE SHAPE OF THE RAIL ON GAUGE AND FIELD SIDES. ALL WELDS WILL BE CONSIDERED INCIDENTAL TO ITEM 900.640 SPECIAL PROVISION (CONTINUOUS WELDED RAIL).
- EXCAVATION SHALL CONSIST OF THE EXCAVATION AND DISPOSAL FROM THE WORK SITE OF ALL MATERIALS OF ANY DESCRIPTION ENCOUNTERED IN THE COURSE OF CONSTRUCTION AND WILL BE PAID FOR UNDER ITEM 203.17 UNCLASSIFIED EXCAVATION.

- THE CONTRACTOR SHALL INSTALL GEOTEXTILE FABRIC UNDER THE RAILROAD BALLAST WITHIN THE LIMITS OF THE PRECAST CONCRETE GRADE PANEL CROSSING AS SHOWN IN THE PLANS PER SECTION 649 AS DIRECTED BY THE ENGINEER AND WILL BE MADE UNDER ITEM 649.21 GEOTEXTILE UNDER RAILROAD BALLAST.
- THE CONTRACTOR SHALL RAISE, ALIGN AND SURFACE THE TRACK PER ITEM 900.640 SPECIAL PROVISION (RAISE, ALIGN, AND SURFACE TRACK). SURFACING IS TO FINAL GRADE, MULTIPLE PASSES WILL BE CONSIDERED INCIDENTAL TO ITEM 900.640 SPECIAL PROVISION (RAISE, ALIGN, AND SURFACE TRACK).
- TRACK SURFACING AND BALLAST REGULATING IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COORDINATED WITH VERMONT RAIL SYSTEM PRIOR TO COMMENCING WORK. PAYMENT WILL BE MADE UNDER ITEM 900.640 SPECIAL PROVISION (RAISE, ALIGN, AND SURFACE TRACK). BALLAST MATERIAL USED DURING THE TRACK SURFACING OPERATION WILL BE PAID UNDER ITEM 900.680 SPECIAL PROVISION (RAILROAD BALLAST).
- BALLAST MATERIAL SUPPLIED WILL BE APPROVED BY VERMONT RAIL SYSTEM AND THE ENGINEER PRIOR TO ITS ACCEPTANCE. BALLAST SURFACING AND BALLAST BASE COURSE TO BE PAID FOR UNDER ITEM 900.680 SPECIAL PROVISION (RAILROAD BALLAST). THE ENGINEER AND VERMONT RAIL SYSTEM RESERVE THE RIGHT TO SAMPLE AND TEST THE STONE BALLAST UP TO AND INCLUDING THE POINT OF USE.
- THE CONTRACTOR SHALL GRADE THE FINAL PAVEMENT SURFACE TO MATCH INTO THE PROPOSED NH SURF(55) MIDDLEBURY-FERRISBURGH U.S. ROUTE 7 ROAD PROFILE AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR WILL INSTALL UNDERDRAIN AND UNDERDRAIN CARRIER PIPE AS SHOWN IN THE PLANS ON SHEET 84 AND AS DIRECTED BY THE ENGINEER. UNDERDRAIN WILL BE PAID FOR UNDER ITEM 605.10 6 INCH UNDERDRAIN PIPE AND UNDERDRAIN CARRIER PIPE UNDER ITEM 605.20 6 INCH UNDERDRAIN CARRIER PIPE.
- SIGNAL CONDUITS SHALL BE INSTALLED AS SHOWN ON SHEETS 84 & 86. ONE CONDUIT SHALL BE INSTALLED AS A SPARE CONDUIT IN EACH RUN FOR FUTURE USE. THE CONDUIT SHALL BE FOUR INCH DIAMETER RIGID GALVANIZED STEEL AND SHALL EXTEND A MINIMUM OF 20 FEET BEYOND EDGE OF CROSSING. CONDUIT ENDS SHALL BE SEALED IN ACCORDANCE WITH THE REQUIREMENTS OF THE A.R.E.M.A. SIGNAL MANUAL AND WILL BE PAID FOR UNDER ITEM 900.645 SPECIAL PROVISION (RAIL-HIGHWAY CROSSING ACTIVE WARNING SYSTEM) (AARDOT 85I-375L).
- THE COST FOR PROVIDING VEHICULAR TRAFFIC CONTROL DURING CONSTRUCTION OF THE RAIL HIGHWAY CROSSING WILL BE PAID FOR UNDER ITEM 900.645 SPECIAL PROVISION (TRAFFIC CONTROL, RAIL-HIGHWAY CROSSING) (AARDOT 85I-375L).

ITEM NO.	BID ITEMS	UNIT	85I-375L QUANTITY	85I-367U QUANTITY	TOTAL QUANTITY
203.17	UNCLASSIFIED EXCAVATION	CY	210	-	210
204.20	TRENCH EXCAVATION OF EARTH	CY	10	-	10
210.10	COLD PLANING, BITUMINOUS PAVEMENT	SY	300	-	300
301.25	SUBBASE CRUSHED GRAVEL, COURSE GRADED	CY	60	-	60
301.26	SUBBASE CRUSHED GRAVEL, FINE GRADED	CY	30	-	30
514.10	WATER REPELLENT, SILANE	GAL	5	-	5
605.10	6 INCH UNDERDRAIN PIPE	LF	240	-	240
605.20	6 INCH UNDERDRAIN CARRIER PIPE	LF	20	-	20
646.512	DURABLE RAILROAD CROSSING SYMBOL, THERMOPLASTIC (OPTION CC)	EA	2	3	5
646.712	TEMPORARY RAILROAD CROSSING SYMBOL, PAINT	EA	2	3	5
649.21	GEOTEXTILE UNDER RAILROAD BALLAST	SY	270	-	270
900.620	SPECIAL PROVISION (DURABLE RAILROAD CROSSING SYMBOL, POLYUREA) (28 MILS) (OPTION CC)	EA	2	3	5
900.620	SPECIAL PROVISION (REMOVAL AND REPLACEMENT OF CROSS TIES) (8'-6" TIES)	EA	269	-	269
900.620	SPECIAL PROVISION (REMOVAL AND REPLACEMENT OF CROSS TIES) (9'-0" TIES)	EA	20	-	20
900.620	SPECIAL PROVISION (REMOVAL AND REPLACEMENT OF CROSS TIES) (10'-0" TIES)	EA	55	-	55
900.620	SPECIAL PROVISION (BAND JOINT @ PRECAST CONCRETE RAILROAD CROSSING)	EA	144	-	144
900.620	SPECIAL PROVISION (PRECAST CONCRETE PANEL GRADE CROSSING REPAIR) (AARDOT 85I-367U)	EA	-	1	1
900.640	SPECIAL PROVISION (CONTINUOUS WELDED RAIL)	LF	343	-	343
900.640	SPECIAL PROVISION (RAISE, ALIGN, AND SURFACE TRACK)	LF	550	-	550
900.640	SPECIAL PROVISION (PRECAST CONCRETE PANEL GRADE CROSSING SURFACE) (AARDOT 85I-375L)	LS	1	-	1
900.645	SPECIAL PROVISION (RAIL-HIGHWAY CROSSING ACTIVE WARNING SYSTEM) (AARDOT 85I-375L)	LS	1	-	1
900.645	SPECIAL PROVISION (TRAFFIC CONTROL, RAIL-HIGHWAY CROSSING) (AARDOT 85I-375L)	LS	1	-	1
900.645	SPECIAL PROVISION (TRAFFIC CONTROL, RAIL-HIGHWAY CROSSING) (AARDOT 85I-367U)	LS	-	1	1
900.650	SPECIAL PROVISION (MAINTENANCE OF RAILROAD TRAFFIC) (N.A.B.I.)	LU	0.9	0.1	1
900.680	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)	TON	260	-	260
900.680	SPECIAL PROVISION (RAILROAD BALLAST)	TON	375	-	375

PROJECT NAME: MIDDLEBURY - FERRISBURGH	
PROJECT NUMBER: NH SURF (55)	
FILE NAME: z15v015rrgn.dgn	PLOT DATE: 4/7/2016
PROJECT LEADER: D.E.G.	DRAWN BY: C.A.K.
DESIGNED BY: M.J.M.	CHECKED BY: D.W.E.
RAILROAD GENERAL NOTES	SHEET 80 OF 96

