


GENERAL NOTES:


- SEE SHEET 93 FOR PRECAST CONCRETE GRADE PANEL CROSSING DETAILS. TYPE AND DESIGN OF PRECAST CONCRETE CROSSING PANELS SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL FROM VTRANS AND THE GREEN MOUNTAIN RAILROAD. 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 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 AND ATTACHMENT HARDWARE SHALL BE INCIDENTAL TO THE APPROPRIATE ITEM 900.645 SPECIAL PROVISION (PRECAST CONCRETE PANEL GRADE CROSSING SURFACE).
- THE COST OF PAVING THE TWO LIFTS OF TYPE IIS BASE COURSE AT THE RAIL APPROACHES SHALL BE PAID FOR UNDER ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT. SEE SHEET 21 FOR QUANTITY BREAKDOWN.
- A MINIMUM OF 15 DAYS PRIOR TO BEGINNING WORK ON THIS RAIL CROSSING THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH GREEN MOUNTAIN RAILROAD. THE CONTRACTOR SHALL HAVE THE TRACK BACK IN SERVICE AT THE END OF EACH WORK PERIOD. THE COST FOR COORDINATION WITH GREEN MOUNTAIN RAILROAD SHALL BE 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 GREEN MOUNTAIN RAILROAD FOR REVIEW AND APPROVAL. IT IS ANTICIPATED THAT DISRUPTIONS TO RAIL TRAFFIC SHALL BE MINIMIZED AND THAT THE WORK ASSOCIATED WITH THE RECONSTRUCTION OF EACH GRADE CROSSING WILL BE COMPLETED WITHIN FIVE CONSECUTIVE WORKDAY PERIODS. THESE CROSSING WORK ACTIVITIES, THE COORDINATION, REVIEW AND APPROVAL PROCESS INVOLVING VTRANS AND GREEN MOUNTAIN RAILROAD, AND THE RECONSTRUCTION OF EACH 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 73/4" 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 UNDER APPROPRIATE CROSS TIE ITEM 900.620 SPECIAL PROVISION (REMOVAL AND REPLACEMENT OF CROSS TIES).
-  AT LOCATIONS WHERE THE EXISTING RAIL IS TO REMAIN AND A WOOD CROSS TIE IS TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL INSTALL A TIE PLATE ANYWHERE A TIE PLATE IS MISSING, CRACKED, BROKEN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL USE THE EXISTING TIE PLATES THAT WERE REMOVED FROM THE LOCATIONS NEW IISRE CWR IS TO BE INSTALLED AS DIRECTED BY THE ENGINEER. THE COST FOR THIS WORK SHALL BE INCIDENTAL TO ITEM 900.620 SPECIAL PROVISION (REMOVAL AND REPLACEMENT OF CROSS TIES).
- THE CONTRACTOR SHALL PROVIDE NEW IISRE CWR THROUGH THE CONCRETE GRADE CROSSING AS SPECIFIED IN THE PLANS. RAIL WEIGHTS SHALL BE VERIFIED BY GREEN MOUNTAIN RAILROAD 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 VTRANS AND GREEN MOUNTAIN RAILROAD. WELDED JOINTS SHALL BE GROUND TO CONFORM TO THE SHAPE OF THE RAIL ON GAUGE AND FIELD SIDES. ALL WELDS SHALL 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 SHALL BE PAID FOR UNDER ITEM 203.17 UNCLASSIFIED EXCAVATION.
- THE CONTRACTOR SHALL INSTALL GEOTEXTILE 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) AND THE EXISTING NO. 10 TURNOUTS PER ITEM 900.620 (RAISE, ALIGN, AND SURFACE TURNOUT) (NO. 10 TURNOUT). SURFACING IS TO FINAL GRADE. MULTIPLE PASSES SHALL BE CONSIDERED INCIDENTAL TO ITEM 900.640 SPECIAL PROVISION (RAISE, ALIGN, AND SURFACE TRACK) AND ITEM 900.620 SPECIAL PROVISION (RAISE, ALIGN, AND SURFACE TURNOUT) (NO. 10 TURNOUT). ADDITIONAL QUANTITY OF ITEM 900.640 SPECIAL PROVISION (RAISE, ALIGN, AND SURFACE TRACK) HAS BEEN INCLUDED IN THE PROJECT TO ACCOUNT FOR MINIMUM RUNOFF ON THE SIDINGS TO RAISE THE TRACK TO PROPER ELEVATION AFTER THE TURNOUTS HAVE BEEN SURFACED. RUNOFF ON THE SIDINGS HAS BEEN ESTIMATED AT 100 FEET OR SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER UNDER 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 GREEN MOUNTAIN RAILROAD PRIOR TO COMMENCING WORK. PAYMENT WILL BE MADE UNDER ITEM 900.640 SPECIAL PROVISION (RAISE, ALIGN, AND SURFACE TRACK) OR ITEM 900.620 SPECIAL PROVISION (RAISE, ALIGN, AND SURFACE TURNOUT) (NO. 10 TURNOUT) AS APPROPRIATE. BALLAST MATERIAL USED DURING THE TRACK SURFACING OPERATION TO BE PAID UNDER ITEM 900.680 SPECIAL PROVISION (RAILROAD BALLAST).
- BALLAST MATERIAL SUPPLIED SHALL BE APPROVED BY GREEN MOUNTAIN RAILROAD 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 GREEN MOUNTAIN RAILROAD RESERVE THE RIGHT TO SAMPLE AND TEST THE STONE BALLAST UP TO AND INCLUDING THE POINT OF USE.
- IT IS ANTICIPATED THAT NO TURNOUT TIMBERS SHALL BE REPLACED DURING THE TIE AND SURFACING OPERATION. ANY TURNOUT TIMBER ON WHICH THE TIE PLATE IS NOT TIGHT AGAINST THE RAIL BASE SHALL HAVE THE CAUSE CORRECTED BY INSTALLING WOODEN TIE PLUGS OR CHEMICAL COMPOUND TO PLUG THE HOLES, RE-SPIKING, AND RE-TAMPING THE TURNOUT TIMBER UNTIL THE TIE PLATE IS BEARING FIRMLY AGAINST THE RAIL BASE AS DIRECTED BY THE ENGINEER. ALL WORK ASSOCIATED WITH CORRECTING A TURNOUT TIMBER DEEMED DEFECTIVE DURING THE TIE AND SURFACING OPERATION SHALL BE PAID FOR UNDER ITEM 900.620 SPECIAL PROVISION (RAISE, ALIGN AND SURFACE TURNOUT) (NO. 10 TURNOUT).
- THE CONTRACTOR SHALL RAISE THE ELEVATION OF THE PROPOSED GRADE CROSSING A NOMINAL THREE INCHES OR AS DIRECTED BY THE ENGINEER TO PROMOTE POSITIVE DRAINAGE AWAY FROM THE GRADE CROSSING.
- THE CONTRACTOR SHALL GRADE THE FINAL PAVEMENT SURFACE TO MATCH INTO THE VT. ROUTE 103 ROAD PROFILE AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL INSTALL UNDERDRAIN AND UNDERDRAIN CARRIER PIPE AS SHOWN IN THE PLANS ON SHEET 90 AND AS DIRECTED BY THE ENGINEER. UNDERDRAIN SHALL 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 SHEET 92. 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 SHALL BE PAID FOR UNDER ITEM 900.645 SPECIAL PROVISION (RAIL-HIGHWAY CROSSING ACTIVE WARNING SYSTEM) (AARDOT 859-813N). SEE GRADE CROSSING SIGNAL PLAN ON SHEET 92 FOR CONDUIT LOCATIONS OR AS DIRECTED BY THE ENGINEER.
- THE COST FOR PROVIDING VEHICULAR TRAFFIC CONTROL DURING CONSTRUCTION OF THE RAIL HIGHWAY CROSSING SHALL BE PAID UNDER ITEM 900.645 SPECIAL PROVISION (TRAFFIC CONTROL, RAIL-HIGHWAY CROSSING) (AARDOT 859-813N).

AARDOT 859-813N GRADE CROSSING QUANTITIES			
ITEM NO.	RAILROAD BID ITEMS	UNIT	QTY
203.17	UNCLASSIFIED EXCAVATION	CY	1150
204.20	TRENCH EXCAVATION OF EARTH	CY	20
210.10	COLD PLANING, BITUMINOUS PAVEMENT	SY	700
490.30	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	TON	275
490.31	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	LU	1
514.10	WATER REPELLENT, SILANE	GAL	10
605.10	6 INCH UNDERDRAIN PIPE	LF	375
605.20	6 INCH UNDERDRAIN CARRIER PIPE	LF	120
649.21	GEOTEXTILE UNDER RAILROAD BALLAST	SY	1250
900.620	SPECIAL PROVISION (BONDED INSULATED JOINTS)	EA	4
900.620	SPECIAL PROVISION (COMPROMISE JOINTS)	EA	6
900.620	SPECIAL PROVISION (CORING CONCRETE)	EA	2
900.620	SPECIAL PROVISION (REMOVAL AND REPLACEMENT OF CROSS TIES) (8'-6" TIES)	EA	475
900.620	SPECIAL PROVISION (REMOVAL AND REPLACEMENT OF CROSS TIES) (9'-0" TIES)	EA	40
900.620	SPECIAL PROVISION (REMOVAL AND REPLACEMENT OF CROSS TIES) (10'-0" TIES)	EA	110
900.620	SPECIAL PROVISION (RAISE, ALIGN, AND SURFACE TURNOUT) (NO. 10 TURNOUT)	EA	1
900.640	SPECIAL PROVISION (BAND JOINT @ PRECAST CONCRETE RAILROAD CROSSING)	LF	270
900.640	SPECIAL PROVISION (CONTINUOUS WELDED RAIL)	LF	1400
900.640	SPECIAL PROVISION (RAISE, ALIGN, AND SURFACE TRACK)	LF	1300
900.645	SPECIAL PROVISION (PRECAST CONCRETE PANEL GRADE CROSSING SURFACE) (MAINLINE-AARDOT 859-813N)	LS	1
900.645	SPECIAL PROVISION (PRECAST CONCRETE PANEL GRADE CROSSING SURFACE) (SIDING-AARDOT 859-813N)	LS	1
900.645	SPECIAL PROVISION (RAIL-HIGHWAY CROSSING ACTIVE WARNING SYSTEM) (AARDOT 859-813N)	LS	1
900.645	SPECIAL PROVISION (TRAFFIC CONTROL, RAIL-HIGHWAY CROSSING) (AARDOT 859-813N)	LS	1
900.650	SPECIAL PROVISION (MAINTENANCE OF RAILROAD TRAFFIC) (N.A.B.I.)	LU	1
900.680	SPECIAL PROVISION (RAILROAD BALLAST)	TON	1800
900.683	SPECIAL PROVISION (EMULSIFIED ASPHALT) (RS-IH OR CRS-IH)	CWT	10

REVISION	DATE	DESCRIPTION	BY
	05-12-2015	ADDED TEXT TO NOTE 5.	MJM

AARDOT 859-813N NOTES & QUANTITIES SHEET	
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PROJECT LEADER: D. GOZALKOWSKI	DRAWN BY: A. KIRBY
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	SHEET 87 OF 309