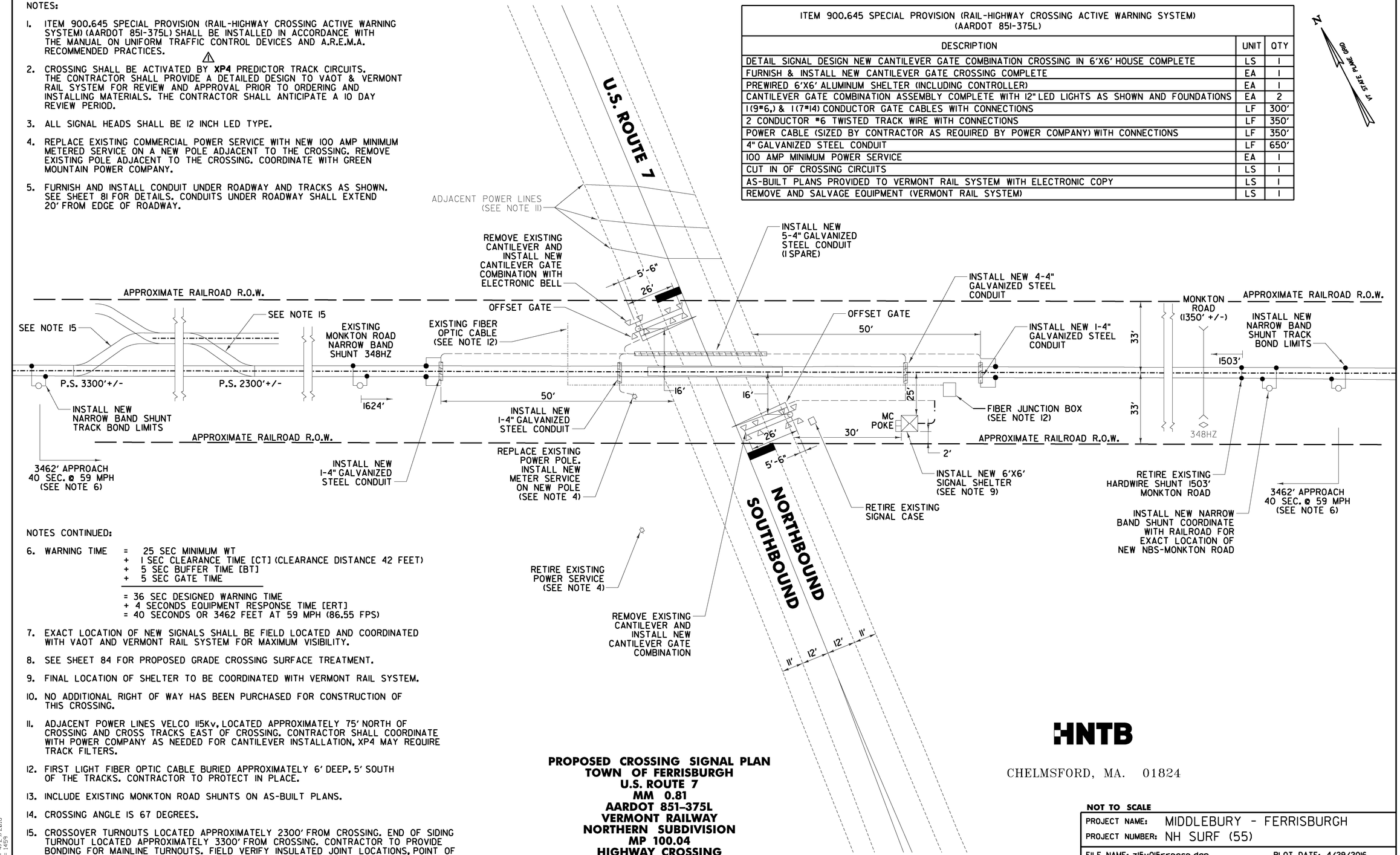
NOTES:

1. ITEM 900.645 SPECIAL PROVISION (RAIL-HIGHWAY CROSSING ACTIVE WARNING SYSTEM) (AARDOT 851-375L) SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND A.R.E.M.A. RECOMMENDED PRACTICES. ⚠
2. CROSSING SHALL BE ACTIVATED BY **XP4** PREDICTOR TRACK CIRCUITS. THE CONTRACTOR SHALL PROVIDE A DETAILED DESIGN TO VAOT & VERMONT RAIL SYSTEM FOR REVIEW AND APPROVAL PRIOR TO ORDERING AND INSTALLING MATERIALS. THE CONTRACTOR SHALL ANTICIPATE A 10 DAY REVIEW PERIOD.
3. ALL SIGNAL HEADS SHALL BE 12 INCH LED TYPE.
4. REPLACE EXISTING COMMERCIAL POWER SERVICE WITH NEW 100 AMP MINIMUM METERED SERVICE ON A NEW POLE ADJACENT TO THE CROSSING. REMOVE EXISTING POLE ADJACENT TO THE CROSSING. COORDINATE WITH GREEN MOUNTAIN POWER COMPANY.
5. FURNISH AND INSTALL CONDUIT UNDER ROADWAY AND TRACKS AS SHOWN. SEE SHEET 81 FOR DETAILS. CONDUITS UNDER ROADWAY SHALL EXTEND 20' FROM EDGE OF ROADWAY.

ITEM 900.645 SPECIAL PROVISION (RAIL-HIGHWAY CROSSING ACTIVE WARNING SYSTEM) (AARDOT 851-375L)		
DESCRIPTION	UNIT	QTY
DETAIL SIGNAL DESIGN NEW CANTILEVER GATE COMBINATION CROSSING IN 6'X6' HOUSE COMPLETE	LS	1
FURNISH & INSTALL NEW CANTILEVER GATE CROSSING COMPLETE	EA	1
PREWIRED 6'X6' ALUMINUM SHELTER (INCLUDING CONTROLLER)	EA	1
CANTILEVER GATE COMBINATION ASSEMBLY COMPLETE WITH 12" LED LIGHTS AS SHOWN AND FOUNDATIONS	EA	2
1(9#6,) & 1(7#14) CONDUCTOR GATE CABLES WITH CONNECTIONS	LF	300'
2 CONDUCTOR #6 TWISTED TRACK WIRE WITH CONNECTIONS	LF	350'
POWER CABLE (SIZED BY CONTRACTOR AS REQUIRED BY POWER COMPANY) WITH CONNECTIONS	LF	350'
4" GALVANIZED STEEL CONDUIT	LF	650'
100 AMP MINIMUM POWER SERVICE	EA	1
CUT IN OF CROSSING CIRCUITS	LS	1
AS-BUILT PLANS PROVIDED TO VERMONT RAIL SYSTEM WITH ELECTRONIC COPY	LS	1
REMOVE AND SALVAGE EQUIPMENT (VERMONT RAIL SYSTEM)	LS	1



NOTES CONTINUED:

6. WARNING TIME = 25 SEC MINIMUM WT
   + 1 SEC CLEARANCE TIME [CT] (CLEARANCE DISTANCE 42 FEET)
   + 5 SEC BUFFER TIME [BT]
   + 5 SEC GATE TIME
   = 36 SEC DESIGNED WARNING TIME
   + 4 SECONDS EQUIPMENT RESPONSE TIME [ERT]
   = 40 SECONDS OR 3462 FEET AT 59 MPH (86.55 FPS)
7. EXACT LOCATION OF NEW SIGNALS SHALL BE FIELD LOCATED AND COORDINATED WITH VAOT AND VERMONT RAIL SYSTEM FOR MAXIMUM VISIBILITY.
8. SEE SHEET 84 FOR PROPOSED GRADE CROSSING SURFACE TREATMENT.
9. FINAL LOCATION OF SHELTER TO BE COORDINATED WITH VERMONT RAIL SYSTEM.
10. NO ADDITIONAL RIGHT OF WAY HAS BEEN PURCHASED FOR CONSTRUCTION OF THIS CROSSING.
11. ADJACENT POWER LINES VELCO 115Kv, LOCATED APPROXIMATELY 75' NORTH OF CROSSING AND CROSS TRACKS EAST OF CROSSING. CONTRACTOR SHALL COORDINATE WITH POWER COMPANY AS NEEDED FOR CANTILEVER INSTALLATION, XP4 MAY REQUIRE TRACK FILTERS.
12. FIRST LIGHT FIBER OPTIC CABLE BURIED APPROXIMATELY 6' DEEP, 5' SOUTH OF THE TRACKS. CONTRACTOR TO PROTECT IN PLACE.
13. INCLUDE EXISTING MONKTON ROAD SHUNTS ON AS-BUILT PLANS.
14. CROSSING ANGLE IS 67 DEGREES.
15. CROSSOVER TURNOUTS LOCATED APPROXIMATELY 2300' FROM CROSSING. END OF SIDING TURNOUT LOCATED APPROXIMATELY 3300' FROM CROSSING. CONTRACTOR TO PROVIDE BONDING FOR MAINLINE TURNOUTS. FIELD VERIFY INSULATED JOINT LOCATIONS, POINT OF SWITCH LOCATIONS AND INCLUDE ON CONTRACTOR'S DESIGN PLAN.
16. FINAL GATE LENGTH TO BE DETERMINED IN THE FIELD.

PROPOSED CROSSING SIGNAL PLAN
TOWN OF FERRISBURGH
U.S. ROUTE 7
MM 0.81
AARDOT 851-375L
VERMONT RAILWAY
NORTHERN SUBDIVISION
MP 100.04
HIGHWAY CROSSING

REV	DATE	DESCRIPTION
⚠	5-2-16	XP4 ADDED TO NOTE 2

HNTB

CHELMSFORD, MA. 01824

NOT TO SCALE

PROJECT NAME: MIDDLEBURY - FERRISBURGH
PROJECT NUMBER: NH SURF (55)

FILE NAME: z15v015rrpcsp.dgn — PLOT DATE: 4/29/2016
PROJECT LEADER: D.E.G. — DRAWN BY: T.L.L.
DESIGNED BY: D.S.B. — CHECKED BY: M.J.E.
PROPOSED CROSSING SIGNAL PLAN — SHEET 86 OF 96

FILE NAME = V:\Projects\ANY\K43\30674\CADD_MSTN\15v015\Consultants\Rail\z15v015rrpcsp.dgn
DATE/TIME = 4/29/2016
USER = LKSY