

CONCORD
BRUCE FREEMAN RAIL TRAIL PHASE 2C

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	----	122	328
PROJECT FILE NO.		605189	

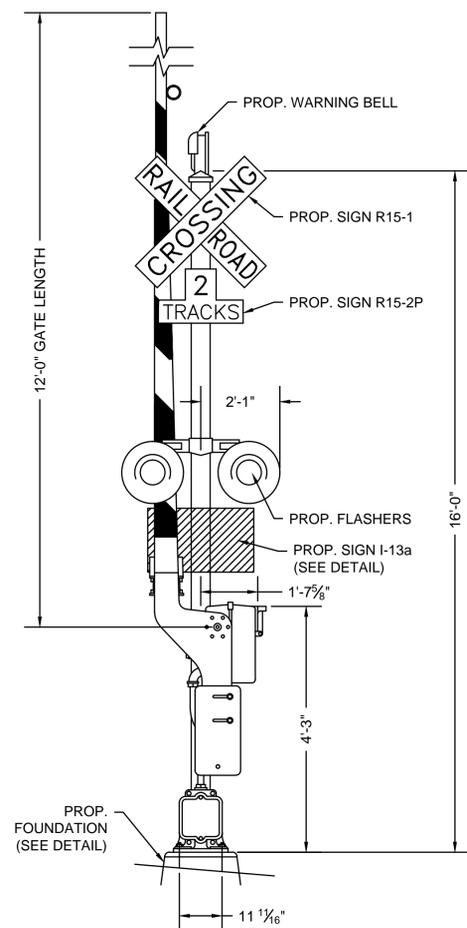
RAILROAD CROSSING
GENERAL NOTES

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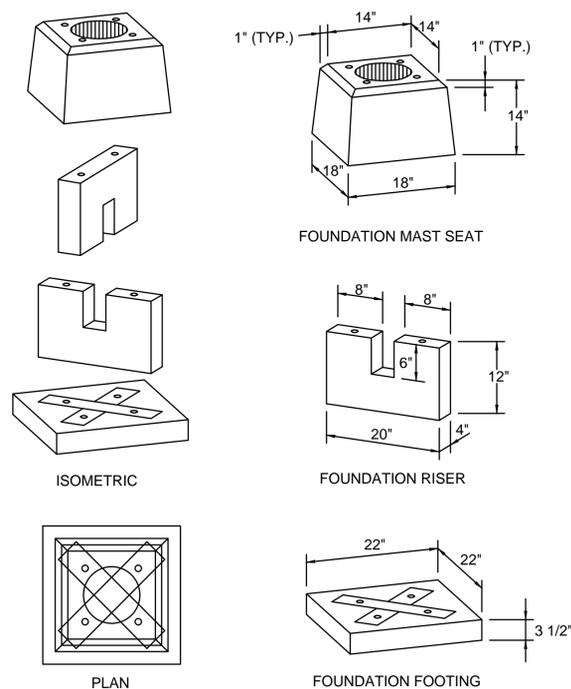
1. TIE SPACING UNDER CROSSING AREA SHALL BE 18 INCHES ON CENTER.
2. NEW 7" x 9" x 9'-0" AND 7" x 9" x 8'-6" TIES SHALL BE USED IN CROSSING AREA AS SHOWN ON PLANS.
3. TIE PLATES ON NEW TIES SHALL BE NEW 14 INCH DOUBLE SHOULDER TIE PLATES, MANUFACTURED FOR THE RAIL SIZE USED. PLATES SHALL BE INSPECTED AND APPROVED BY THE RAILROAD AND THE ENGINEER.
4. BALLAST SHALL EXTEND 12 INCHES BEYOND END OF TIES AND SLOPE 1:2 MAXIMUM TO THE ROADBED (SEE RAILROAD CROSSING DETAIL).
5. TYPE AND DESIGN OF RAIL SEAL WITH CLIPS SHALL RECEIVE APPROVAL FROM THE ENGINEER.
6. BITUMINOUS CONCRETE PAVEMENT SHALL FOLLOW LATEST EDITION OF THE MASSDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND SHALL BE PLACED PARALLEL TO CROSSING TO MINIMIZE APPROACH SETTLEMENT, UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER.
7. CONTRACTOR SHALL LINE, TAMP, AND SURFACE TRACK IN APPROACH AREAS TO OBTAIN A SMOOTH TRANSITION BETWEEN EXISTING AND PROPOSED TRACK TO THE SATISFACTION OF THE ENGINEER AND RAILROAD.
8. SIX SIGNAL CONDUITS 4" DIA. GALVANIZED STEEL (HEAVY WALL) TO BE INSTALLED WITH SECURED END CAPS IN LOCATIONS BELOW THE TRACKS DIRECTED BY THE ENGINEER.
9. TEN SIGNAL CONDUITS 4" DIA. GALVANIZED STEEL (HEAVY WALL) TO BE INSTALLED WITH SECURED END CAPS IN LOCATIONS BELOW THE RAIL TRAIL, AS DIRECTED BY THE ENGINEER.

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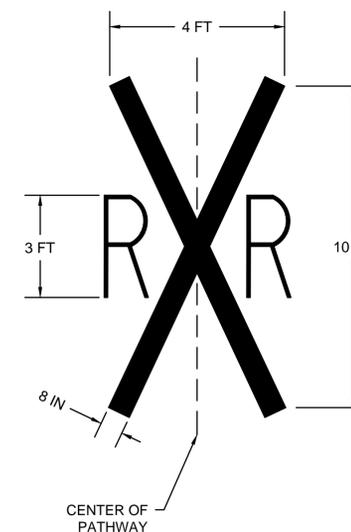
RAILROAD CROSSING
ACTIVE WARNING DETAILS



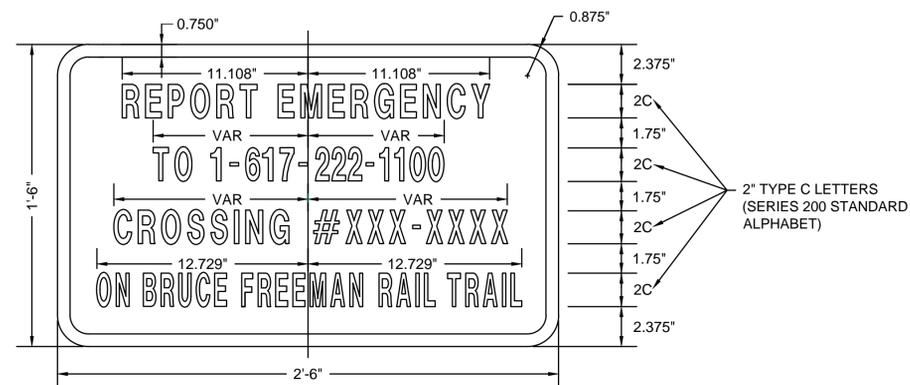
RAILROAD SIGNAL MAST
N.T.S.



RAILROAD SIGNAL FOUNDATION
N.T.S.



RAILROAD CROSSING PAVEMENT MARKING
N.T.S.



COLORS:
LEGEND WHITE (RETROREFLECTIVE)
BACKGROUND BLUE (RETROREFLECTIVE)

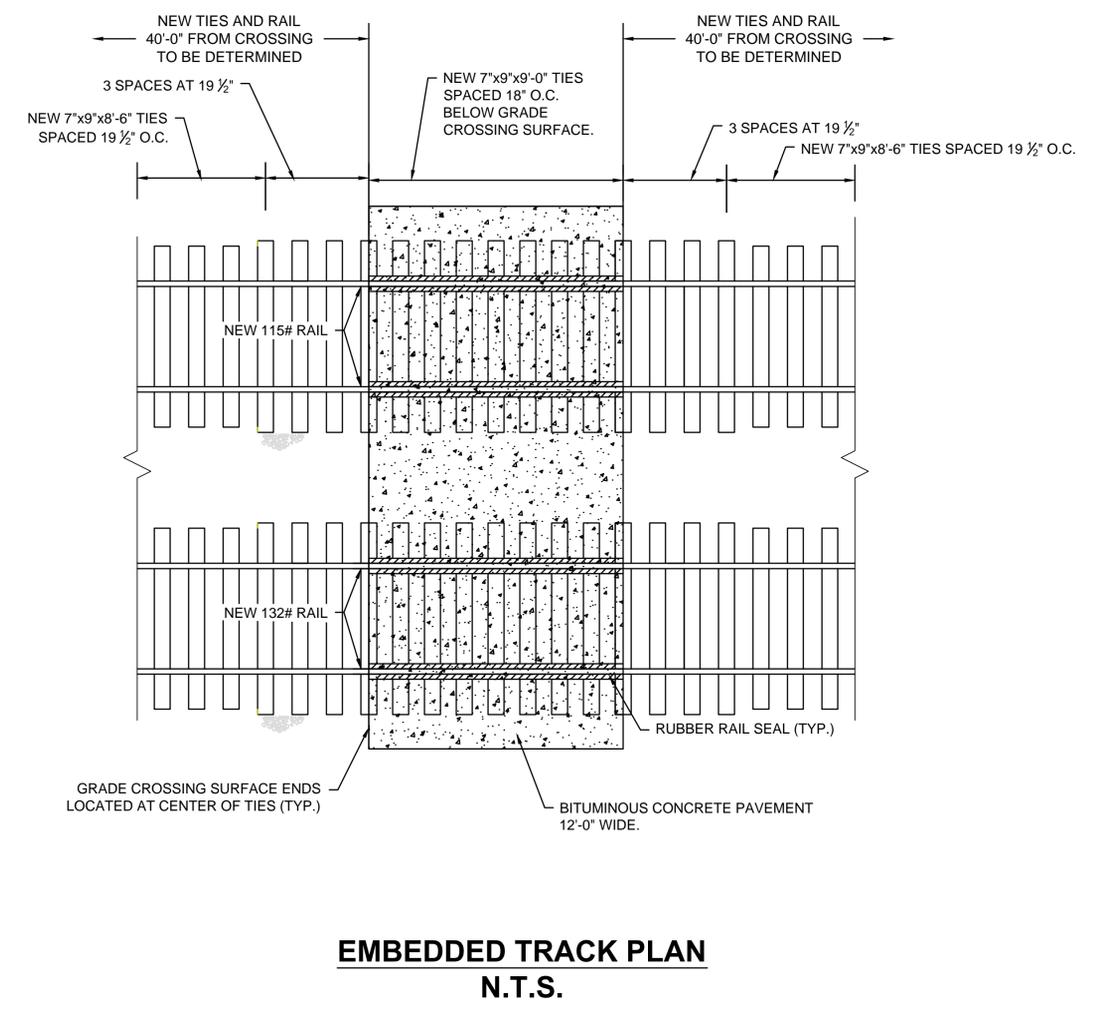
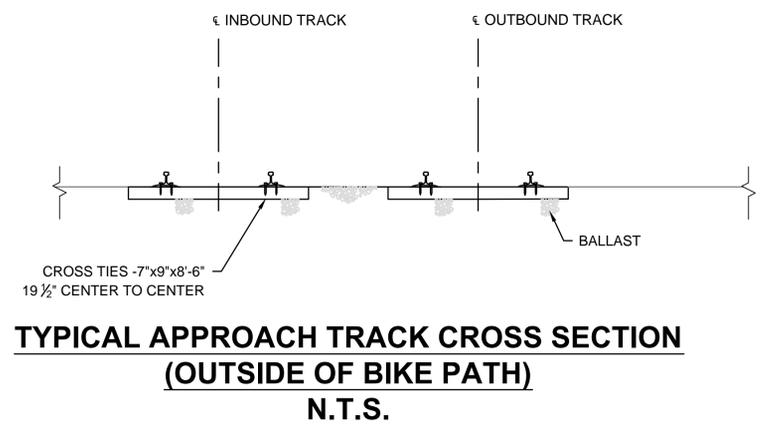
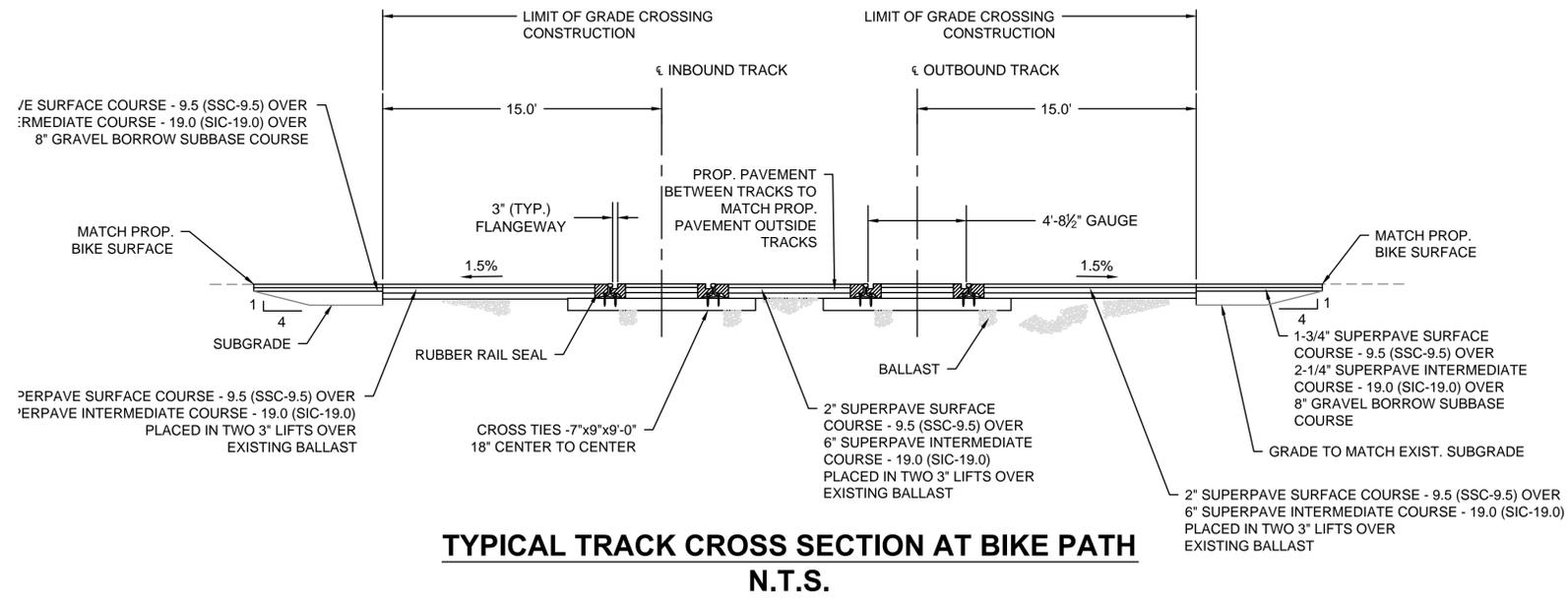
GENERAL SERVICE SIGN NOTES:

1. THE EMERGENCY CONTACT TELEPHONE NUMBER IS 1-617-222-1100, THE CROSSING NUMBER IS XXX-XXXX.
2. PLACE A MINIMUM OF (2) I-13a SIGNS ONE ON EACH SIDE OF THE CROSSING.

SIGN I-13a
N.T.S.

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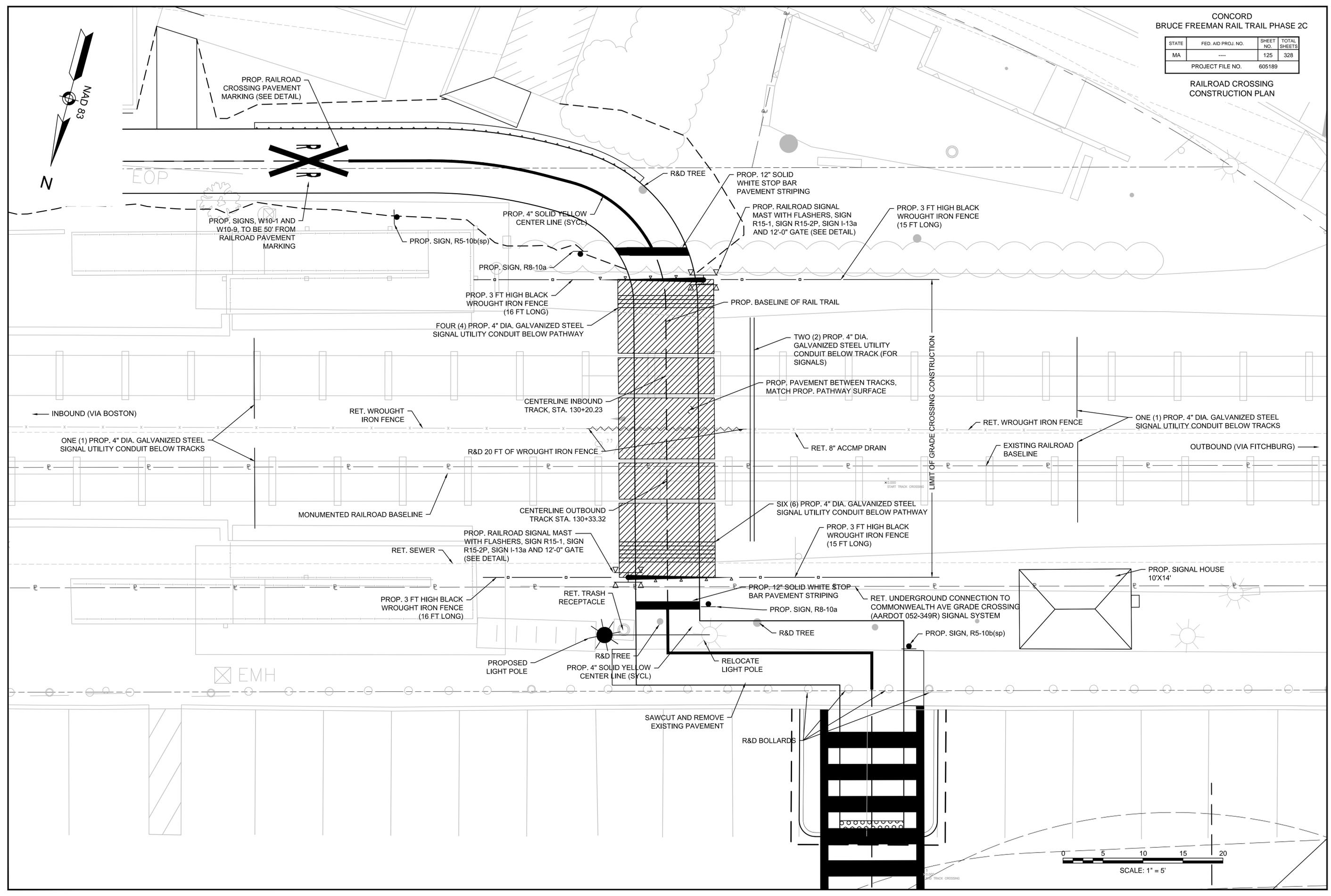
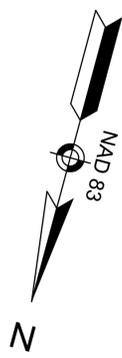
RAILROAD CROSSING
CROSS-SECTION



CONCORD
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RAILROAD CROSSING
CONSTRUCTION PLAN



PROP. RAILROAD CROSSING PAVEMENT MARKING (SEE DETAIL)

PROP. SIGNS, W10-1 AND W10-9, TO BE 50' FROM RAILROAD PAVEMENT MARKING

PROP. SIGN, R5-10b(sp)

PROP. SIGN, R8-10a

PROP. 3 FT HIGH BLACK WROUGHT IRON FENCE (16 FT LONG)

FOUR (4) PROP. 4" DIA. GALVANIZED STEEL SIGNAL UTILITY CONDUIT BELOW PATHWAY

PROP. 4" SOLID YELLOW CENTER LINE (SYCL)

R&D TREE

PROP. 12" SOLID WHITE STOP BAR PAVEMENT STRIPING

PROP. RAILROAD SIGNAL MAST WITH FLASHERS, SIGN R15-1, SIGN R15-2P, SIGN I-13a AND 12'-0" GATE (SEE DETAIL)

PROP. 3 FT HIGH BLACK WROUGHT IRON FENCE (15 FT LONG)

PROP. BASELINE OF RAIL TRAIL

TWO (2) PROP. 4" DIA. GALVANIZED STEEL UTILITY CONDUIT BELOW TRACK (FOR SIGNALS)

PROP. PAVEMENT BETWEEN TRACKS, MATCH PROP. PATHWAY SURFACE

LIMIT OF GRADE CROSSING CONSTRUCTION

← INBOUND (VIA BOSTON)

RET. WROUGHT IRON FENCE

ONE (1) PROP. 4" DIA. GALVANIZED STEEL SIGNAL UTILITY CONDUIT BELOW TRACKS

CENTERLINE INBOUND TRACK, STA. 130+20.23

R&D 20 FT OF WROUGHT IRON FENCE

RET. 8" ACCMP DRAIN

RET. WROUGHT IRON FENCE

ONE (1) PROP. 4" DIA. GALVANIZED STEEL SIGNAL UTILITY CONDUIT BELOW TRACKS

OUTBOUND (VIA FITCHBURG) →

MONUMENTED RAILROAD BASELINE

CENTERLINE OUTBOUND TRACK STA. 130+33.32

SIX (6) PROP. 4" DIA. GALVANIZED STEEL SIGNAL UTILITY CONDUIT BELOW PATHWAY

PROP. 3 FT HIGH BLACK WROUGHT IRON FENCE (15 FT LONG)

PROP. RAILROAD SIGNAL MAST WITH FLASHERS, SIGN R15-1, SIGN R15-2P, SIGN I-13a AND 12'-0" GATE (SEE DETAIL)

RET. SEWER

PROP. 3 FT HIGH BLACK WROUGHT IRON FENCE (16 FT LONG)

RET. TRASH RECEPTACLE

PROP. 12" SOLID WHITE STOP BAR PAVEMENT STRIPING

RET. UNDERGROUND CONNECTION TO COMMONWEALTH AVE GRADE CROSSING (AARDOT 052-349R) SIGNAL SYSTEM

PROP. SIGNAL HOUSE 10'X14'

R&D TREE

PROP. SIGN, R5-10b(sp)

EMH

PROPOSED LIGHT POLE

R&D TREE

PROP. 4" SOLID YELLOW CENTER LINE (SYCL)

RELOCATE LIGHT POLE

SAWCUT AND REMOVE EXISTING PAVEMENT

R&D BOLLARDS

