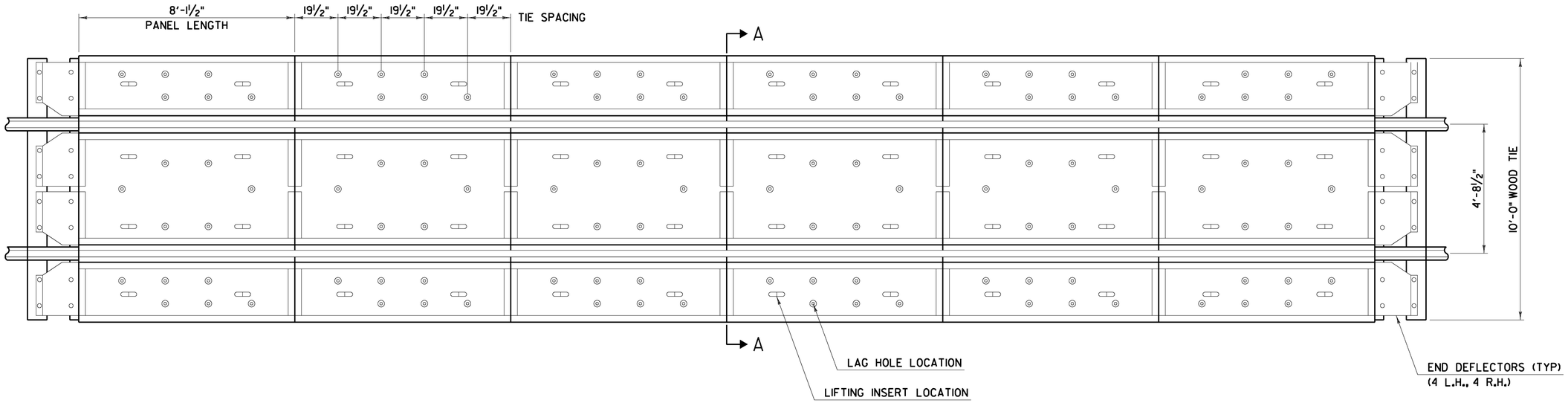
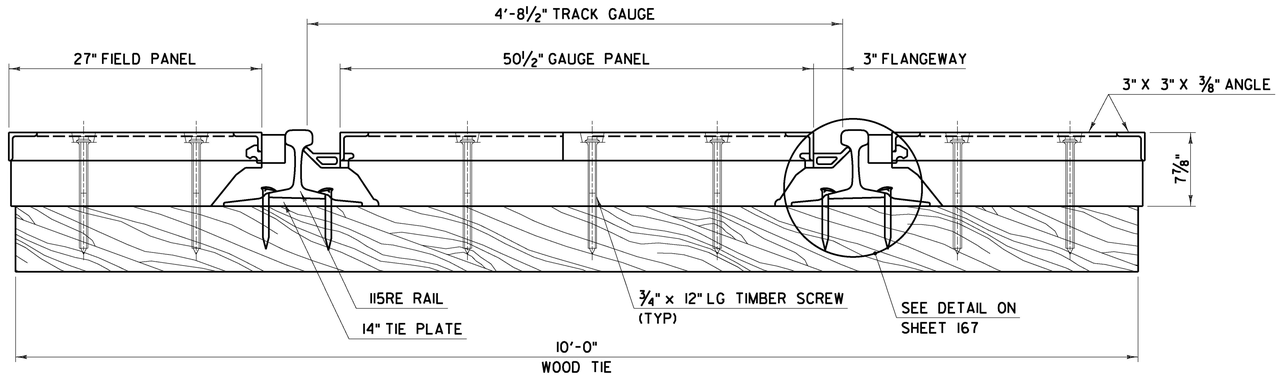
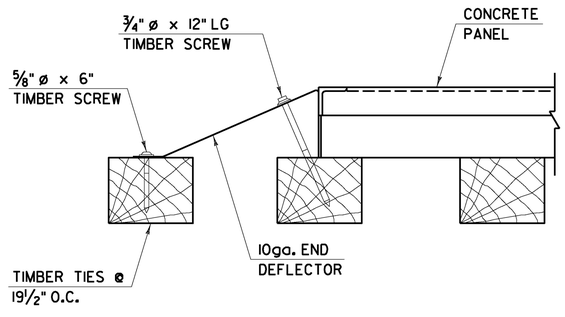


CROSSING PLAN VIEW



SECTION A-A



END DEFLECTOR DETAIL

PANEL SPECIFICATIONS

MINIMUM PANEL LENGTH	8'-1½"
GAUGE PANEL WIDTH	50½"
FIELD PANEL WIDTH	2'-3"
HEIGHT DETERMINED BY RAIL SIZE	7⅞"
DIMENSION TOLERANCE	±3/16"
CROSSTIE CENTERS REQUIRED	19½"
CROSSTIE LENGTH REQUIRED	10'-0"

MATERIAL SPECIFICATIONS:

1. STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36 SPECIFICATIONS. WELDING TO BE PER AWS CODE.
2. REINFORCING STEEL SHALL CONFORM TO CURRENT ASTM A706 SPECIFICATION, GRADE 60 LEVEL I REINFORCEMENT, EPOXY COATED.
3. 3/16" Ø WEEP HOLES SHALL BE PLACED EVERY 2 FT. MIN. ALONG THE TOP OF THE STEEL FRAME ALONG A LINE ¾" FROM OUTSIDE EDGE.
4. CONCRETE MATERIAL MIXING, PLACING AND CURING TO BE IN ACCORDANCE WITH PCI "MANUAL FOR QUALITY CONTROL: PRECAST AND PRESTRESSED CONCRETE" MANUAL 115, EDITION 4. CEMENT SHALL HAVE NO MORE THAN 0.6% TOTAL ALKALI CONTENT. MAXIMUM WATER/ CEMENT RATIO = 0.44 (BY WEIGHT). AIR ENTRAINMENT = 6% +1% IN PLASTIC CONCRETE. SLUMP EIGHT INCH MAXIMUM.
5. TOP SURFACE SHALL BE NON-CRACK DESIGN AND IS TO BE SEALED TO PREVENT ION MIGRATION DUE TO SALTING.
6. CONCRETE COMPRESSIVE STRENGTH SHALL BE AS FOLLOWS:
   - @ 28 DAYS = 600psi MINIMUM.
   - @ REMOVAL FROM FORMS = 2500psi MINIMUM
7. PANEL REINFORCEMENT TO MEET AASHTO HS-20 LOADING SPECIFICATION WITH 30% IMPACT INCREMENT.
8. EACH PANEL TO HAVE (TWO) TWO TON MINIMUM LIFTING HOOKS, ½" O MIN. HOT-DIPPED GALV.
9. ALL EXPOSED SURFACES OF STEEL ANGLE FRAME TO HAVE ONE COAT RUST INHIBITIVE COATING.

TOLERANCES:

1. OUT OF SQUARE 3/16" (MEASURED ALONG DIAGONAL).
2. LENGTH, WIDTH, AND THICKNESS: ±⅛".
3. REINFORCEMENT PLACEMENT SHALL BE ±½" HORIZONTAL, ±¼" VERTICAL.
4. THE BOTTOM SURFACE WHICH WILL BE IN CONTACT WITH THE TIES, SHALL NOT UNDULATE IN ANY DIRECTION MORE THAN 3/32".
5. LAG SCREW LOCATION TOLERANCE: ±½" IN ANY DIRECTION.
6. LIFTING POCKET LOCATION TOLERANCE: ±1" IN ANY DIRECTION.
7. RUBBER LENGTH TOLERANCE: +0, -⅛" OF ADJACENT PANEL ENDS.

RUBBER RAIL SEAL PROPERTIES:

1. TENSILE STRENGTH: 2000psi MINIMUM (ASTM D412)
2. HARDNESS SHORE A: 65 ±5 DUROMETER (ASTM D2240)
3. ELONGATION AT BREAK: 400% MINIMUM (ASTM D412)

NOT TO SCALE

PROJECT NAME: ESSEX JUNCTION
PROJECT NUMBER: NH 2956(2)

FILE NAME: z15v026rrdt101.dgn
PROJECT LEADER: D.GOZALKOWSKI
DESIGNED BY: M. MOKEY
AARDOT 247-723Y RAILROAD DETAIL SHEET 1

PLOT DATE: 4/19/2016
DRAWN BY: C. KAHLBAUGH
CHECKED BY: D. EMERICH
SHEET 166 OF 171