PLAN VIEW OF PANEL WITH TIMBER TIES

CONCRETE PAVEMENT

7" MIN. ASPHALTIC CONCRETE OR ASPHALT INSTALLED IN NO MORE THAN 3" LIFTS

8" DIA PERFORATED METAL PIPE; PERFORATIONS TO BE PLACED NEAR FLOW LINE OF PIPE

PLACE GEOTEXTILE AT NATURAL GROUND AND WRAP PERFORATED PIPES (SEE NOTES)

DRAIN (OPTIONAL) - SEE PIPE LAYOUT AND NOTES

TYPICAL BALLAST AND ASPHALT DETAIL

NOTES:
SEE PAGE 2 FOR NOTES AND MORE DETAILS.

UNION PACIFIC RAILROAD
ENGINEERING STANDARDS
INSTALLATION OF ROAD CROSSINGS W/ PRECAST CONCRETE PANELS

STD DWG
0304H

FILE NO. 0304H

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NOTES:
1. CROSSING PANEL SUPPORT THROUGH THE CROSSING MUST BE UNIFORM. CONCRETE TIE SPACING IS TO BE A MAXIMUM OF 24" CENTER TO CENTER, WOOD TIE SPACING TO BE MAXIMUM OF 19 1/2" CENTER TO CENTER. TIE SPACING MUST BE ADJUSTED TO SUPPORT THE ENDS OF THE PANELS.

2. CROSSING SITE IS TO BE INSPECTED PRIOR TO START OF INSTALLATION TO DETERMINE THAT PROPER DRAINAGE AND SURFACE SUPPORT IS PROVIDED. TRACK GRADE IS REQUIRED TO BE AT LEAST 10%.

3. IF CONDITIONS WARRANT, SITE IS TO BE OVER-EXCAVATED AND CROSSING DRAINAGE SYSTEM INSTALLED USING COMPACTED, WELL-GERMED, GRANULAR FILL, SUBBALLAST, GEOTEXTILE AND PERFORATED DRAINAGE PIPE (IF REQUIRED) INSTALLED PER DETAILS OF THIS DRAWING.

4. ADDITIONAL SITE DRAINAGE INCLUDING PROPER DRAINAGE AT EACH QUADRANT OF CROSSING SHALL BE COMPLETED TO ENSURE CROSSING DRAINAGE.

5. PRECAST PANELS ARE TO BE HANDLED AND SUPPORTED AT SPECIFIED LIFTING INSERT LOCATIONS ONLY. LIFTING EQUIPMENT AND CONNECTION INSERTS ARE TO BE PROPERLY SIZED TO HANDLE THE LENGTH OF PANELS BEING INSTALLED. RING LIFTING DEVICES ARE AVAILABLE FROM COMPANY WAREHOUSE.

6. APPROACH ASPHALT ROADWAY PAVING IS TO MEET STATE DOT HIGHWAY SPECIFICATIONS AND INSTALLED ACCORDINGLY. ASPHALT IS TO BE INSTALLED WITH PAVER WITH MAXIMUM 3" LIFTS AND LAYED PARALLEL TO CROSSING TO MINIMIZE APPROACH SETTLEMENTS.

7. GEOTEXTILE AND PIPE TO BE INSTALLED ONLY AT LOCATIONS WHERE REQUIRED BY STATE OR LOCAL AGENCIES OR WHERE DESIGNATED BY CHIEF ENGINEER.

8. GALVANIZED ELASTIC FASTENERS ARE TO BE USED WITHIN THE CROSSING AREA. PANDROL E-CUPS TO BE USED ON WOOD TIE CROSSINGS AND SAFELOK CUPS ON CONCRETE TIE CROSSINGS.

9. ALL RAIL JOINTS IN CROSSING AREA TO BE WELDED. DO NOT INSTALL BOLTED JOINT BARS.

10. REPORT CROSSING GATE MALFUNCTIONS TO 24 HR UPRR CROSSING HOT LINE AT 1-800-848-8715.

11. ALL EXCEPTIONS TO THIS PLAN MUST BE APPROVED BY THE CHIEF ENGINEER.