

PROJECT NOTES

PREFORMED FABRIC BEARING NOTES (SEE SHEET 81)

1. PREFORMED FABRIC PAD BEARINGS SHALL CONFORM TO APPLICABLE SUBSECTIONS OF SECTIONS 531 AND 731.
2. BEARINGS SHALL BE PAID FOR UNDER THE ITEM 531.10, BEARING DEVICE ASSEMBLY, PREFORMED FABRIC PAD.
3. SURFACES OF BRIDGE SEATS UNDER BEARING DEVICES SHALL BE LEVEL AND CLEAR OF DIRT AND DEBRIS. OTHER BRIDGE SEAT AREAS SHALL BE SLOPED 6 MILLIMETERS PER 300 MILLIMETERS TOWARD CENTER SPAN. THE ENTIRE BRIDGE SEAT SURFACE SHALL BE SMOOTHED WITH A FLOAT FINISH.
4. BRIDGE SEAT ELEVATIONS MAY BE REVISED TO ACCOMMODATE AN ALTERNATE CONFIGURATION.
5. ALL THE ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AND CONFORM TO THE REQUIREMENTS OF SUBSECTION 714.08. ANCHOR BOLTS SHALL HAVE A MINIMUM OF 380 mm EMBEDMENT INTO THE CONCRETE. ALL WASHERS SHALL BE 10 mm PLATE (MINIMUM). PAYMENT FOR ANCHOR BOLTS, NUTS AND WASHERS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 531.10, BEARING DEVICE ASSEMBLY, PREFORMED FABRIC PAD.
6. DRILL AND SET ANCHOR BOLTS WITH A MINIMUM OF 380 MILLIMETERS EMBEDMENT INTO CONCRETE. HOLES SHALL BE AS SHOWN ON THE PLANS AND BOLTS SHALL BE SET IN A TYPE IV MORTAR. ALL COSTS TO BE INCLUDED UNDER ITEM 531.10, BEARING DEVICE ASSEMBLY, PREFORMED FABRIC PAD.
7. ANCHOR BOLTS SHALL BE SWEDGED WITH 300 MILLIMETERS OF THREAD. NUTS ARE TO BE DRAWN UP FINGER TIGHT AND THEN BACKED OFF FIVE (5) MILLIMETERS. THREADS SHALL BE BURRED ABOVE NUT TO PREVENT NUT REMOVAL.
8. FABRICATION DRAWINGS CONFORMING TO APPLICABLE SUBSECTIONS OF SECTION 531 SHALL BE SUBMITTED AND INCLUDE ANY NECESSARY WELDING PROCEDURES.

STEEL BEARING NOTES (SEE SHEET 82)

1. STEEL BEARING DEVICE ASSEMBLY SHALL CONFORM TO APPLICABLE SUBSECTIONS OF SECTIONS 531 AND 731.
2. BEARINGS SHALL BE PAID FOR UNDER THE ITEM 531.13 BEARING DEVICE ASSEMBLY, STEEL.
3. FABRICATION DRAWINGS CONFORMING TO SECTION 531 SHALL BE SUBMITTED TO INCLUDE WELDING AND BONDING PROCEDURES.
4. NO FIELD WELDING OF STEEL BEARING ASSEMBLIES WILL BE PERMITTED.
5. SETTING OF BEARING DEVICES IS NOT PERMITTED PRIOR TO VERIFICATION AND WRITTEN APPROVAL OF FOUNDATION PEDESTAL ELEVATIONS BY THE ENGINEER.
6. ALL BEARING DEVICES SHALL BE GALVANIZED OR METALIZED AS PER SUBSECTION 531.04(B) AND 506.15(A) & (B), EXCEPT TOP SURFACE WHICH IS WELDED TO STEEL FRAME. METALIZED SURFACES ARE TO BE COATED WITH AN APPROVED SEALANT PER SUBSECTION 531.04(B). AREAS OF DAMAGED METALLIZING OR GALVANIZING SHOULD BE REPAIRED PER SECTION 513. SEE STRUCTURAL STEEL NOTE 12 FOR PAINTING REQUIREMENTS.
7. ALL STEEL IN BEARING DEVICES (EXCEPT STAINLESS), SHALL BE AASHTO M270M GRADE 345, EXCEPT ANCHOR BOLTS WHICH SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 164M.
8. ALL PINS SHALL BE ASTM 276 2205 STAINLESS STEEL WITH POLISHED FINISH.
9. PROVIDE 2 ADDITIONAL PINS TO THE RESIDENT ENGINEER. COST SHALL BE INCLUDED IN ITEM 513.13. THE SLANT LEG BEARINGS SHALL HAVE A FINE MACHINE FINISH FOR FUTURE USE.
10. ALTERNATE CONFIGURATIONS FOR BEARINGS MAY BE SUBMITTED FOR APPROVAL. ANY ALTERNATE SUBMITTED SHALL BE DESIGNED AND CERTIFIED TO MEET THE DESIGN LOADS AND CRITERIA, AND SHALL MAINTAIN THE ANCHORAGE SYSTEM SHOWN.
11. BRIDGE SEAT ELEVATIONS MAY BE REVISED TO ACCOMMODATE AN ALTERNATE CONFIGURATION.
12. ALL THE ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AND CONFORM TO THE REQUIREMENTS OF SUBSECTION 714.08. ANCHOR BOLTS SHALL HAVE A MINIMUM OF 380 EMBEDMENT INTO THE CONCRETE. ALL WASHERS SHALL BE 10 MILLIMETER PLATE (MINIMUM). PAYMENT FOR ANCHOR BOLTS, NUTS AND WASHERS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 531.13, "BEARING DEVICE ASSEMBLY, STEEL".
13. DRILL AND SET ANCHOR BOLTS WITH A MINIMUM OF 380 MILLIMETER EMBEDMENT INTO CONCRETE. HOLES SHALL BE 60 MILLIMETERS IN DIAMETER AND BOLTS SHALL BE SET IN A TYPE IV MORTAR. ALL COSTS TO BE INCLUDED UNDER ITEM 531.13, BEARING DEVICE ASSEMBLY, STEEL.
14. ANCHOR BOLTS SHALL BE SWEDGED WITH 100 MILLIMETERS OF THREAD. EXPANSION BEARING NUTS ARE TO BE DRAWN UP FINGER TIGHT AND THEN BACKED OFF 5 MILLIMETERS. THREADS SHALL BE BURRED ABOVE NUT TO PREVENT NUT REMOVAL.

DOWNSPOUT NOTES (SEE SHEET 86)

1. PAYMENT FOR ALL MATERIALS AND LABOR RELATED TO THE HOPPER AND DOWNSPOUT ASSEMBLY SHALL BE INCLUDED IN ITEM 506.55, STRUCTURAL STEEL PLATE GIRDER.
2. ALL PLATES, BARS AND ANGLES SHALL CONFORM TO AASHTO M270M, GRADE 250.
3. BOLTS AND RELATED HARDWARE SHALL CONFORM TO ASTM A 307 GRADE A.
4. THE HOPPER AND DOWNSPOUT ASSEMBLY SHALL BE INSTALLED AFTER THE BRIDGE EXPANSION JOINT IS IN PLACE.
5. ALL HOPPER AND DOWNSPOUT COMPONENTS AND HARDWARE SHALL BE GALVANIZED UNLESS OTHERWISE NOTED.

EXPANSION JOINT NOTES (SEE SHEETS 83 - 85)

1. BRIDGE EXPANSION JOINT SHALL BE PAID AS ITEM 516.12, BRIDGE EXPANSION JOINT, FINGER PLATE. THIS ITEM SHALL INCLUDE, BUT NOT LIMITED TO, THE FABRICATION AND ERECTION OF THE COMPLETE JOINT ASSEMBLY INCLUDING ALL STEEL, PLATES, BRACKETS, ANGLES, WELDED STUDS OR RODS, PREFORMED FABRIC DRAIN TROUGH MATERIAL AND PLASTIC DRAIN TUBES, BUTYL RUBBER TAPE AND ANY OTHER MISCELLANEOUS MATERIAL.
2. BUTYL RUBBER TAPE SHALL CONFORM TO AASHTO SPECIFICATION M 198, TYPE B. PREFORMED FABRIC MATERIAL SHALL BE CONTINUOUS AND SHALL CONFORM TO SUBSECTION 707.07. ALL STEEL COMPONENTS SHALL BE AASHTO M 270M GRADE 250 GALVANIZED OR METALIZED AS PER SUBSECTION 506.12 (a) OR (b) UNLESS OTHERWISE NOTED.
3. CONSTRUCT EXPANSION JOINT TO MATCH ROADWAY GRADE AND CROSS SLOPE
4. THE FINAL FINISH OF THE EXPANSION DEVICE SHALL BE COVERED AND PROTECTED DURING THE PLACING OF CONCRETE.
5. EXPANSION JOINTS SHALL BE SHOP ASSEMBLED AND SHIPPED AS ONE UNIT FOR EACH BRIDGE.
6. THE ANGLES SHALL BE FURNISHED AS ONE CONTINUOUS PIECE. THE FINGER PLATES ON EACH SIDE OF THE JOINT SHALL BE PROVIDED IN TWO EQUAL LENGTHS, EACH SIDE (4 TOTAL).
7. FILL COUNTER BORED HOLES WITH HOT Poured JOINT SEALER AFTER BOLT INSTALLATION. ALL COSTS SHALL BE INCLUDED IN ITEM 516.12, BRIDGE EXPANSION JOINT, - FINGER PLATE. COAT CONCRETE SURFACES WITH EPOXY BONDING COMPOUND MEETING THE REQUIREMENTS OF SUBSECTION 719.02. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 516.12, "BRIDGE EXPANSION JOINT, FINGER PLATE".
8. FABRIC TROUGH SHALL BE THOROUGHLY CLEANED AND FLUSHED AFTER PAVING OPERATIONS.
9. GRIND ALL EDGES EXPOSED TO TRAFFIC OR PEDESTRIANS TO 5 MILLIMETERS RADIUS
10. A DRIP BEAD OF 8 MILLIMETERS BY 150 MILLIMETERS OF PREFORMED MATERIAL SHALL BE CEMENTED TO THE BOTTOM OF THE FABRIC TROUGH USING AN ADHESIVE APPROVED BY THE MANUFACTURER. THE DRIP BEAD SHALL BE 25 MILLIMETERS WIDE STARTING FROM THE DOWNSPOUT END OF THE TROUGH. ALL COSTS SHALL BE INCLUDED IN ITEM 516.12, BRIDGE EXPANSION JOINT - FINGER PLATE.
11. THE DRAIN TUBES SHALL BE EXTENDED BELOW THE BOTTOM OF THE ADJACENT FRAME AND FASTENED TO THE FRAMES USING A METHOD APPROVED BY THE ENGINEER AND SHALL BE INCLUDED IN ITEM 506.55, STRUCTURAL STEEL PLATE GIRDER.
12. FINAL JOINT PROFILE SHALL MATCH THE DECK AND CURB PROFILE.

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