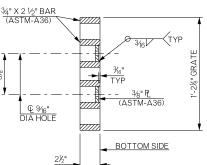


| | | REVISIONS |
|---|--------------|-----------|
| ÷ | DECODIDATION | |



SECTION B-B

MATERIALS:

STEEL FOR DRAINAGE GRATE AND FRAME SHALL BE IN ACCORDANCE WITH AASHTO M270 Gr. 36. WELD IN ACCORDANCE WITH SECTION 724 OF THE STANDARD SPECIFICATIONS.

PIPE OUTLET SHALL BE IN ACCORDANCE WITH ASTM A53, IN STANDARD MASS, UNTHREADED MILL FINISH.

GALVANIZE DRAINAGE GRATE AND FRAME ASSEMBLIES IN ACCORDANCE WITH AASHTO M111.

HEX BOLTS SHALL BE GALVANIZED 7/16" DIA., WITH ONE HEX NUT, ONE PLAIN WASHER AND ONE LOCK WASHER IN ACCORDANCE WITH AASHTO M164.

ALTERNATE BRIDGE DRAINS MAY BE SUBSTITUTED FOR THE BRIDGE DRAIN SHOWN ON THIS SHEET PROVIDED THEY ARE APPROVED BY THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION. ALTERNATE DRAINS MUST HAVE AN APPROXIMATELY EQUAL GRATE OPENING AREA (350 SQ IN) AND AN 8" DIAMETER OUTFALL. THE GRATE SHOULD BE OF A SIMILAR CONFIGURATION.

SLAB REINFORCING BARS SHALL BE BENT TO CLEAR DRAIN BY 1". WHEN BENDING IS NOT POSSIBLE REINFORCING BARS MAY BE STOPPED OR CUT WITHIN 1" OF THE OBSTRUCTION TO CLEAR DRAIN AS SHOWN. FINAL POSITION OF DECK DRAIN MAY BE ALTERED BY +/- 6" TO MINIMIZE CUTTING OF "AC BARS" IN TOP MAT OF BRIDGE DECK REINFORCING. WHEN PLACING CONCRETE, CARE SHALL BE TAKEN TO PREVENT HONEYCOMBING OR AIR POCKETS AROUND OR BENEATH THE DRAIN.

ALL PVC PIPE SHALL BE SCHEDULE 40 DMV CONFORMING TO ASTM D 2665. MINIMUM WALL THICKNESS: 0.280" ~ 6" DIA. 0.332" ~ 6" DIA. FITTINGS TO BE USED AS DIRECTED BY THE ENGINEER. ALL PIPE WILL BE SECURELY SUPPORTED BY THE SUPERSTRUCTURE. ALL METALLIC PIPE SUPPORT HARDWARE AND FASTENERS WILL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATION. ALL ATTACHMENT DEVICES AND PVC PIPE WILL BE CONSIDERED SUBSIDARY TO BID ITEM "STRUCTURAL STEEL."

EXPOSED EDGES OF GRATE AND FRAME WILL BE ROUNDED OR CHAMFERED TO APPROXIMATELY $\mathcal{V}_{16}"$ BY GRINDING, UNLESS OTHERWISE NOTED.

PAYMENT WILL BE BY POUNDS OF "STRUCTURAL STEEL."

DEVIATIONS FROM BRIDGE DRAIN DETAILS CONTAINED HEREIN WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

AVERAGE WEIGHT OF GRATE AND FRAME:

321 LB TOTAL 148 LB (GRATE) 173 LB (FRAME)

| BRIDGE "A" | | LOGAN COUNTY | Design | GT | 11/15 | |
|------------------------|------------------------|--------------|--------|------------------|-------|--|
| SH-33 OVER COTTO | NWOOD CREEK | | Detail | TIS | 4/16 | |
| DETAILS OF DECK DRAINS | | | | TT | 7/16 | |
| (SHEET 1 OF 2) | | | | Squad: PEARSON | | |
| | | | | Engr.: HERNANDEZ | | |
| STATE OF | DEPARTMEN | T OF TRANSF | POR | ΤΑΤ | ION | |
| IOKLAHOMA | JOBPIECE NO. 21860(04) | | | SHEET NO. | B068 | |