

STEPHENSON 290 137 301 TO STA. FED. ROAD DIST, NO. ILLINOIS FED. AID PROJECT **SLOTTED DRAIN PIPE** * 177-(3, 4, 4-1)-1 6m (19'-11") NOMINAL 63(2-1/2") GALVANIZED GRATE SHOWN --50 (2") TYPICAL (75 (3") MAX.) -- MODIFIED HUGGER BAND 300 (12 THRU 900 (3 -63(2-1/2") GALVANIZED GRATE SHOWN CLIP ANGLE 56 (2-1/4") WIDE CLIP ANGLE 13 (1/2") DIA. BOLT-TYPICAL PIPE SECTION 13 (1/2") DIA. BOLT TOP VIEW 63(2-1/2") GALVANIZED GRATE SHOWN FILLET WELD AT EACH SIDE OF GRATE AT EVERY OTHER CORRUGATION ON THE TANGENT. END VIEW CLIP ANGLE -A -150 (6") C-C--50 (2") TYPICAL (75 (3") MAX.) 13 (1/6") DTA. BOLT MODIFIED HUGGER BAND ----125₍(5'')------63(2-1/2") GALVANIZED - DIRECTION OF FLOW 50 (2") OR GRATE WELDING DETAIL 13 (1/2") DIA. BOLT-138(5~1/2") /2")-#13 STANDARD GALVANIZED EXPANDED
STEEL MESH (HEEL GUARD) (OPTIONAL) 25(1")-**- 55**(2-1/8") GAP PLATE (OPTIONAL)
MAY BE PLACED DIRECTLY
OVER BAND BOLT TO PROVIDE SUPPORT BAR FOR MESH 44(1-3/4") 5 (3/16") REARING BAR-63 2-1/2" OR 150 (6") FILLET WELD SECTION B-B _- "A" -HEL-COR PIPE-SECTION A-A STANDARD SIZES "A" GAGE DIAMETER OF PIPE OF PIPE 300 375 450 600 750 900 (120) (150) (180) (240) (300) (360) TYPE STANDARD DETAIL STEEL MESH (HEEL GUARD)
(OPTIONAL) 5 (3/16") BEARING BAR-5 (3/16") SOLID SLOTTED DRAIN NOTES WEB SPACER FILLET WELD 1. GRATING IS AVAILABLE IN DEPTHS OF 63(2-1/2") AND 150(6"). MANUFACTURING TOLERANCES VERTICAL GRATING (STRAIGHT SIDES) WITH VERTICAL SPACERS IS ALSO AVAILABLE. 1. VERTICAL BOW ± 10 (3/8") HEL-COR PIPE-SECTION A-A 2. HORIZONTAL BOW ± 16 (5/8") FOR 150 $(6^{\prime\prime})$ VERTICAL & TRAPIZOIDAL REQUIREMENTS, THE SLOTTED DRAIN BAND MAY BE FURNISHED WITH THE 100 $(4^{\prime\prime})$ TECHCO BAND ANGLE. DETAIL WITH MESH 3. TWIST ± 13 (1/2") (TRAPEZOIDAL GALVANIZED GRATE SHOWN) 4. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES. 5. REFERENCE CONTECH BAND MANUAL DWG. NO. 1008466 FOR BAND DETAILS. #4 A1 BARS *4A, BARS AT 750 $(30)\,\text{CTS.}$ COST INCLUDED IN COST OF SLOTTED DRAIN. 600(24") TYPE A GUTTER (MODIFIED) NOTES TURE 50 (2") MIN-CLASS SI CONCRETE SHALL BE USED THROUGHOUT. 150 (6") THE SLOTTED DRAIN SHALL BE CORRUGATED PIPE CULVERT WITH INTEGRAL SLOTTED DRAINS. BEFORE PLACING THE CONCRETE ADJACENT TO THE PIPE, THE SLOT SHALL BE COVERED BY EITHER THIN, FLAT METAL SHEETING OR BY A BOARD NOTCHED TO FIT OVER THE GRATE BARS. THIS COVERING MUST FIT CLOSELY IN THE SLOT TO PREVENT ENTRY OF CONCRETE INTO THE PIPE. PAVING OVER THE SLOTTED DRAIN WILL THEN BE ONE CONTINUOUS OPERATION OVER THE PROTECTED DRAIN. THE PROTECTION FOR THE DRAIN SLOT SHALL THEN BE REMOVED, THE PIPE SHALL DRAIN INTO THE SIDE OF THE INLET. THE OPENING WHERE THE SLOT IS REMOVED SHALL BE COVERED TO PREVENT CONCRETE FROM ENTERING THE PIPE. 150(6′ 75 (3") BIT. SHLDR. 200 (8 CLASS SI CONCRETE OR -POUR WITH GUTTER. COST INCLUDED IN COST --SLOTTED DRAIN OF SLOTTED DRAIN. THE CORRUGATED STEEL PIPE USED IN THE SLOTTED DRAIN SHALL MEET THE REQUIREMENTS OF AASHTO M-36/ASTM A 760. THE CMP SHALL BE GALVANIZED OR ALLMINIZED STEEL TYPE 2. STEEL GRATING SHALL MEET THE GALVANIZING REQUIREMENTS OF AASHTO M-111. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR SLOTTED DRAIN PIPE, AND SHALL INCLUDE ELBOWS, DRILLING HOLES IN GRATING, SUPPLYING AND PLACING AT BARS AND CONCRETE. 900 (36 CORRUGATED STEEL PIPE 375 (15")-USE APPROVED END CAP TO PREVENT CONCRETE ENTRY INTO THE PIPE DURING GUTTER CONSTRUCTION ON THE UPSTREAM END OF PIPE. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED. 61.2

CONTRACT NO. 64577

COUNTY TOTAL SHEET NO.

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