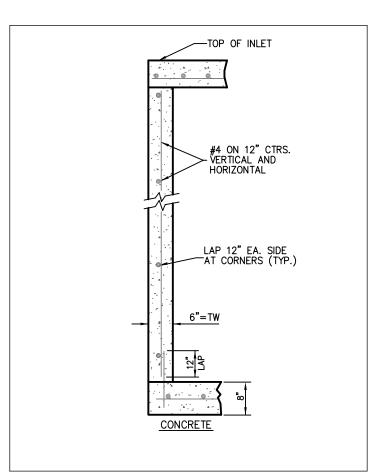
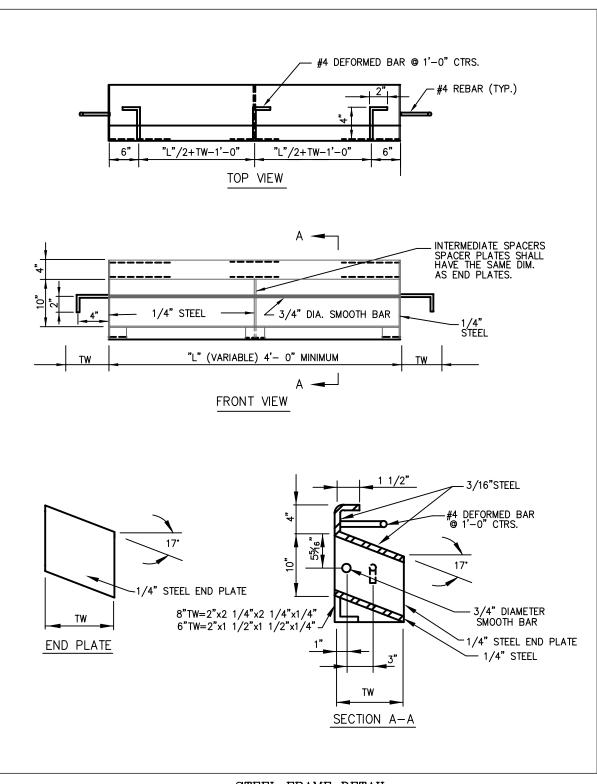


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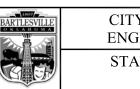
- CONTRACTOR SHALL PROVIDE STEPS SPACED AT 1'-4" O.C. WHERE INLET OR MANHOLE DEPTH IS GREATER THAN 4'-0". STEPS SHALL BE M.A. INDUSTRIES, INC. MODEL PS-2-PF OR APPROVED EQUAL.
- 2. USE OF PRECAST CONCRETE REQUIRES CITY ENGINEER'S APPROVAL OF SHOP DRAWINGS
- 3. MANHOLE RING AND LID SHALL BE CLAY & BAILEY NO. 2020, DEETER 2016 (185 LBS.)
 OR AN APPROVED EQUAL: (SEE NEW STORM MANHOLE RING & LID DETAIL REV 2021)
- 4. SPACER SHALL BE PLACED AT EQUAL INTERVALS ACCORDING TO THE FOLLOWING: L = 4'-0", 2 SPACES; L = 5'-0", 2 SPACES; L = 6'-0", 2 SPACES; L = 7'-0", 2 SPACES; L = 8'-0", 3 SPACES; L=10'-0", 3 SPACES.
- 5. THE FIRST DIMENSION IN THE PLAN NOTATIONS REFERS TO THE "L" DIMENSION.
- 6. THE SECOND DIMENSION IN THE PLAN NOTATIONS REFERS TO THE "W" DIMENSION.
- 7. ALL METAL SURFACES, AFTER BEING CLEANED OF ALL DUST, MILL SCALE AND WELD SCALE SHALL BE COATED UNIFORMLY WITH ONE COAT OF RED EPOXY PRIMER NO. 66-1211 AS MANUFACTURED BY TNEMEC CO., INC. THE PRIMER SHALL BE APPLIED TO A DRY FILM THICKNESS OF 4-6 MILS. APPLIED AT THE RATE RECOMMENDED BY THE MANUFACTURER (APPROX. 250 SQ. FT. PER GALLON), OR METAL SURFACES MAY BE ZINC COATED BY THE HOT DIP PROCESS CONFORMING TO ASTM A123-89.
- 8. CURB CONTRACTOR SHALL HAND FORM AND FINISH GUTTER WITHIN THE INLET THROAT TO THE REAR OF FRONT INLET WALL AT THE TIME THE FINISHING OF NORMAL CURB IS ACCOMPLISHED.
- THE INVERT SHALL HAVE A TROWEL FINISH TO SECURE SMOOTH INVERT SLOPING TO OUTLET PIPE.
- 10. OUTLET OR INLET PIPE SHALL BE PLACED AS SPECIFIED OR AS DIRECTED BY THE ENGI-NEER. REINFORCING STEEL SHALL BE BENT AROUND PIPE.
- 11. USE ODOT CL A 3500 PSI CONCRETE FOR ALL STANDARD CATCH BASINS AND INLETS.



WALL SECTIONS

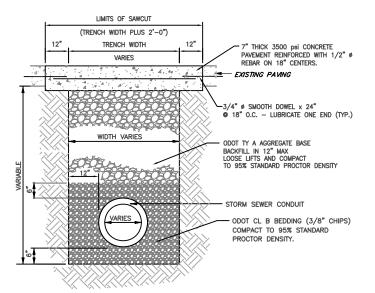


STEEL FRAME DETAIL



CITY OF BARTLESVILLE ENGINEERING SERVICES APPROVED BY CITY ENGINEER REVISED - MAY 2021

STANDARD CURB INLET DETAIL



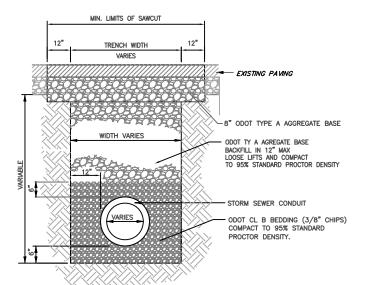
NOIES:
1) SAWCUT CONTRACTION JOINTS TO MATCH THE EXISTING
JOINTS ON THE PAVEMENT. SAWCUTTING FOR REMOVAL OF
PAVEMENT, CONTRACTION JOINTS AND SEALING SHALL BE
SUBSIDIARY TO THE PRICE OF THE PAVEMENT REPAIR.

2) FOR DRIVEWAY CROSSINGS, THE SECTION SHALL BE REDUCED TO 6" THICK 3500 psi NON-REINFORCED CONCRETE DOWELED INTO THE EX. PAVEMENT WITH ½" Ø x 24" REBAR ON 18" CENTERS.

FOR CONCRETE BOXES, SUBSTITUTE ODOT TY A AGGREGATE FOR THE BEDDING MATERIAL.

PIPE/BOX BEDDING DETAIL AT CONCRETE PAVING CROSSING

NOT TO SCALE

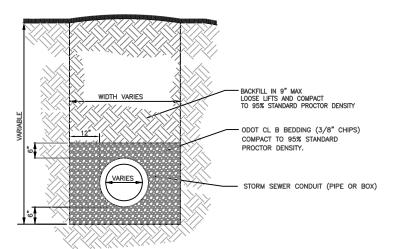


NUIES:

1. ASPHALT PAVING SECTION SHALL CONSIST OF 5" TY B HMAC
PLACED IN 2" LIFTS OVER 8" OF TY A AGGREGATE BASE. PRIME
THE SURFACE IN—BETWEEN THE AGGREGATE AND FIRST LIFT OF
ASPHALT AND USE A TACK TO COAT BETWEEN THE LIFTS OF ASPHALT.

2. FOR CONCRETE BOXES, SUBSTITUTE ODOT TY A AGGREGATE FOR
BEDDING. MATERIAL

PIPE/BOX BEDDING DETAIL AT ASPHALT PAVING CROSSING NOT TO SCALE



NOTE:
1. FOR CONCRETE BOXES, SUBSTITUTE ODOT TY A AGGREGATE FOR

PIPE/BOX BEDDING DETAIL AT UNPÁVED CROSSING NOT TO SCALE

FILL CONCRETE SHALL CONTAIN ONE OF THE FOLLOWING OPTIONS OF MATERIAL IN EACH CUBIC YARD

FILL CONCRETE					
QUICK SET		REGULAR			
FLY ASH SAND WATER	100 LBS. 0 LBS. 2970 LBS. 55 GAL 0%	TYPE 1 CEMENT FLY ASH SAND WATER AIR	60 LBS. 290 LBS. 2750 LBS. 55 GAL 0%		

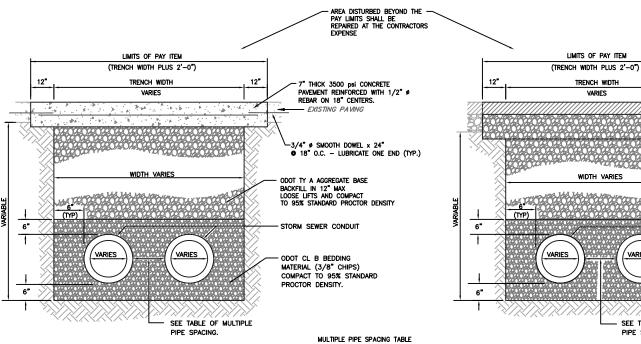
THE 28 DAY COMPRESSIVE STRENGTH SHOULD BE 65 PSI

THE SAND SHALL HAVE 100% PASSING THE 3/4" INCH SIEVE AND 0%-20% PASSING THE No. 200 SIEVE.

STANDARD TRENCH WIDTH SHALL VARY WITH PIPE DIAMETER AS

PIPE	SIZE (IN)	TRENCH WIDTH (IN.)	
< I.D.	24"	O.D. + 24"	
< I.D.	36"	O.D. + 30"	
< I.D.	60"	O.D. + 42"	
I.D.	≥ 60"	PER PUBLIC WORKS	DE

FLOWABLE FILL GENERAL NOTES



SPAN/DIAMETER SPACING

NOTES:

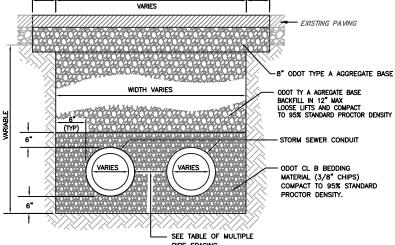
1) SAWCUT CONTRACTION JOINTS TO MATCH THE EXISTING JOINTS ON THE PAVEMENT. SAWCUTTING FOR REMOVAL OF PAVEMENT, CONTRACTION JOINTS AND SEALING SHALL BE SUBSIDIARY TO THE PRICE OF THE PAVEMENT REPAIR.

2) FOR DRIVEWAY/PARKING CROSSINGS, THE SECTION SHALL BE REDUCED TO 6" THICK 3500 psi NON-REINFORCED CONCRETE DOWELED INTO THE EX. PAVEMENT WITH $\frac{1}{2}$ % x 24 REBAR ON 18 CENTERS.

3) FOR BOXES, USE ODOT TY A AGGREGATE FOR THE BEDDING MATERIAL

PIPE/BOX BEDDING DETAIL AT CONCRETE PAVING CROSSING

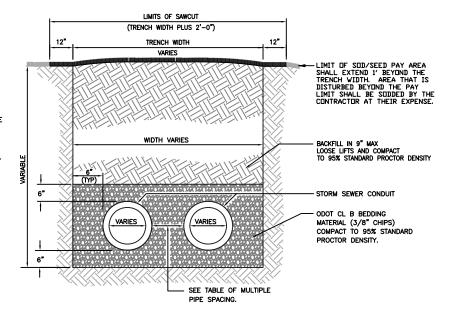
NOT TO SCALE



1) ASPHALT PAVING SECTION SHALL CONSIST OF 5" TY B HMAC PLACED IN 2" LIFTS OVER 8" OF TY A AGGREGATE BASE. PRIME THE SURFACE IN-BETWEEN THE AGGREGATE AND FIRST LIFT OF ASPHALT AND USE A TACK COAT BETWEEN THE LIFTS OF ASPHALT.

2) FOR BOXES, USE ODOT TY A AGGREGATE FOR THE BEDDING MATERIAL

PIPE/BOX BEDDING DETAIL AT ASPHALT PAVING CROSSING NOT TO SCALE



NOTE:
1) FOR BOXES, USE ODOT TY A AGGREGATE FOR THE BEDDING MATERIAL

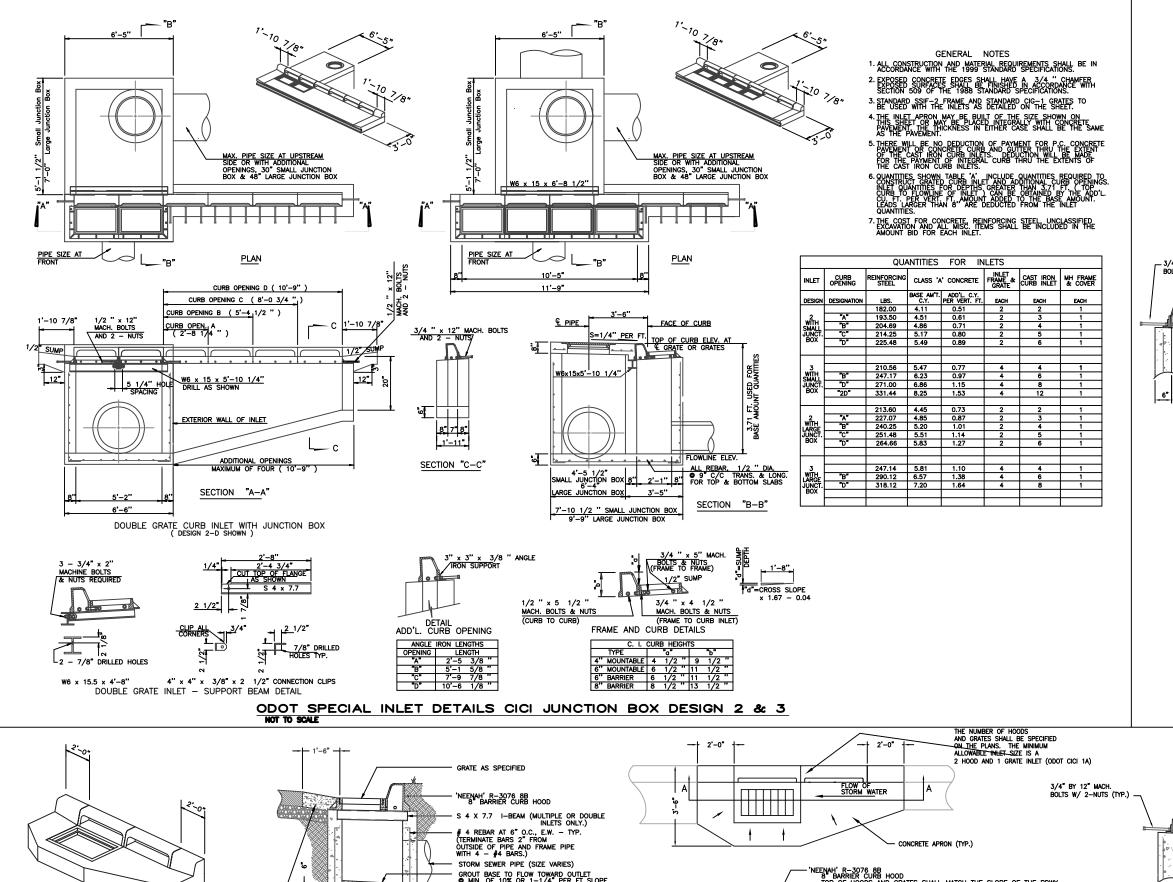
PIPE/BOX BEDDING DETAIL AT UNPÁVED CROSSING NOT TO SCALE

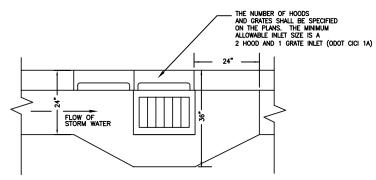


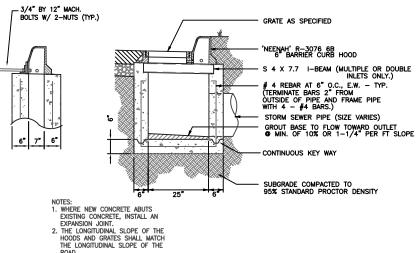
CITY OF BARTLESVILLE
ENGINEERING SERVICES

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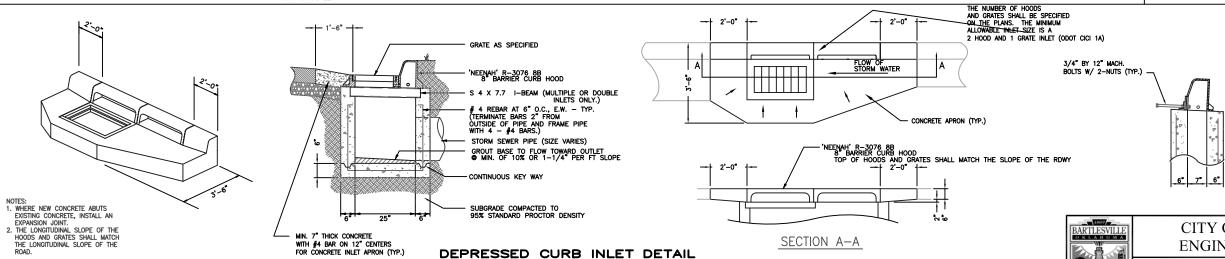
STORM DRAIN DETAILS







STANDARD CURB INLET DETAIL



DEPRESSED CURB INLET DETAIL

NOT TO SCALE

CITY OF BARTLESVILLE **ENGINEERING SERVICES** APPROVED BY CITY ENGINEER **REVISED - JULY 2005**

STORM DRAIN DETAILS