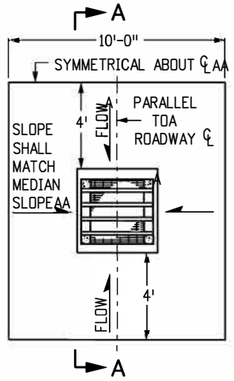
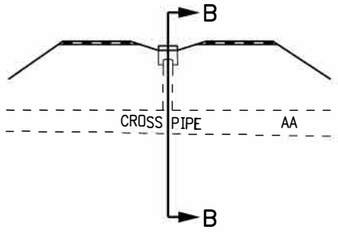


INLET WITH DITCH PAVING

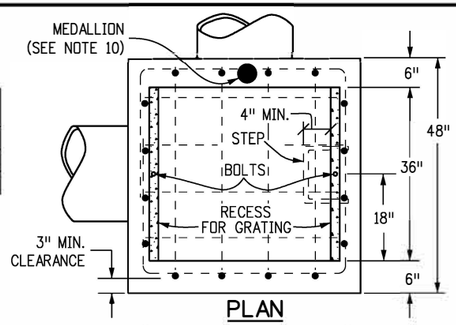
STEEL GRATE QUANTITIES

NO. PIECES	DESCRIPTION	LENGTH	LBS PER FT.	WEIGHT (LBS.)
4	S4 x 7.7 BEAM	41"	7.90	106
2	3½" x ¼" FLAT	26⅝"AA	2.98	13
2	3" x ¼" FLAT	26⅝"	2.55	12

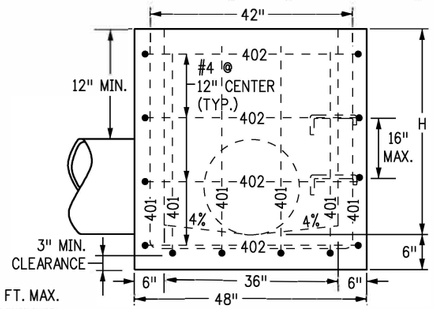
TOTAL LBS. - 131



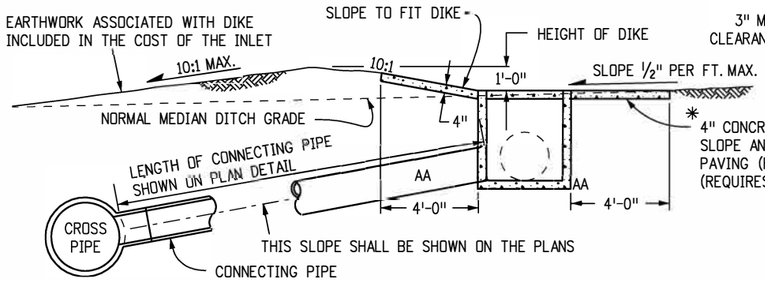
SECTION VIEW



PLAN

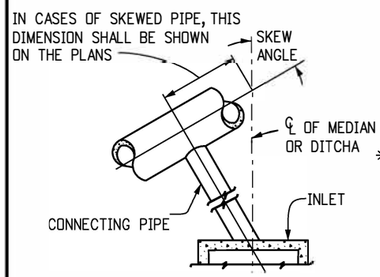


ELEVATION CONCRETE INLETA

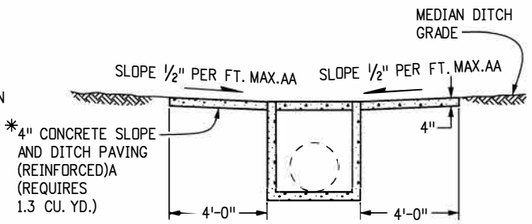


SECTION B-B

INLET CONNECTED TO A CROSS PIPE



INLET CONNECTED TO A SKEWED CROSS PIPE

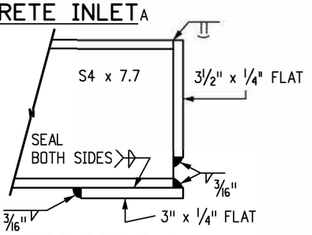


SECTION A-A

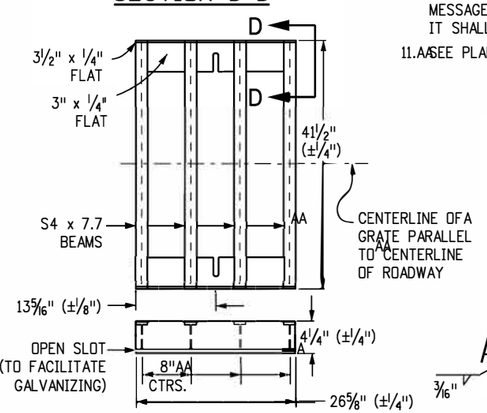
INLET ON GRADE (FLOW FROM ONE DIRECTION)

*CONCRETE SLOPE AND DITCH PAVING WILLAA BE REQUIRED WHEN SHOWN ON THE PLANS.AA

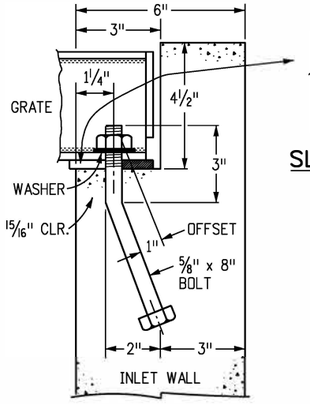
INLET AT BOTTOM OF VERTICAL CURVE (FLOW FROM TWO DIRECTIONS)



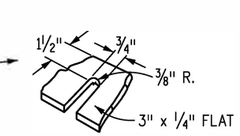
SECTION D-D



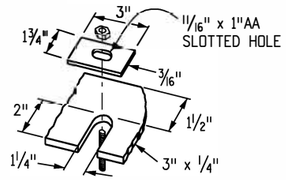
STANDARD INLET GRATE



GRATE INSTALLATION DETAIL



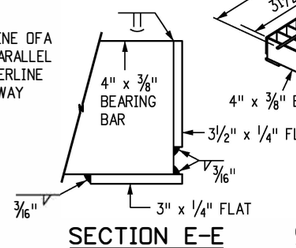
SLOT DETAIL



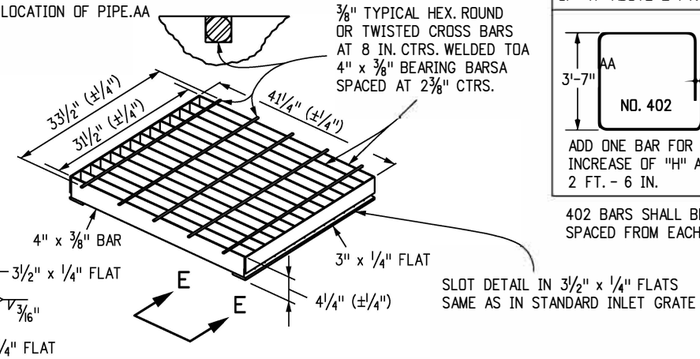
ALTERNATE SLOT AND HOLD DOWN PLATE DETAIL

GENERAL NOTES

1. AINLET TYPE C IS NOT HS-20 RATED AND SHALL NOT BE PLACED IN PAVEDAA ROADWAYS. THIS INLET SHALL BE USED ONLY OUTSIDE PAVED ROADWAYS.AA
2. ACONCRETE SHALL BE CLASS B.AINLET MAY BE CAST-IN-PLACE OR PRECAST.AA
3. AREINFORCING BARS SHALL BE GRADE 60, EPOXY COATED, AND DEFORMED #4, ANDAA SHALL HAVE A MIN. 2 INCH CLEARANCE.ACUT OR BEND AROUND PIPES AS REQUIRED.AA
4. ACONCRETE SLOPE AND DITCH PAVING SHALL BE IN ACCORDANCE WITH SECTION 507.AREINFORCEMENT FOR CONCRETE SLOPE PAVING SHALL BEAA 6 X 6 - W1.4 X W1.4 OR 6 X 6 - W2.1 X W2.1.AA
5. ASTRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALLAA BE GALVANIZED, AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
6. THE STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETSAA UNLESS CLOSE MESH INLET GRATES ARE SPECIFIED ON THE PLANS.
7. ACLOSE MESH GRATES ARE RECOMMENDED WHERE FOOT TRAFFIC OR BICYCLE ROUTESAA ARE IN CLOSE PROXIMITY TO GRATE. THIS GRATE IS NOT ADA COMPLIANT OR BICYCLEAA FRIENDLY AND SHALL NOT BE PLACED DIRECTLY IN SIDEWALKS, CROSSWALKS OR BIKE PATHS.AA
8. ASTEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATERAA THAN 3 FEET - 6 INCHES AND SHALL CONFORM TO AASHTO M 199.AA
9. ASEE STANDARD PLAN M-604-11, FOR REINFORCEMENT AROUND THE PIPE OPENING.AA
10. AALL INLETS SHALL HAVE A 4 INCH DIA. METAL MEDALLION WITH A "NO DUMPING DRAINS TO STREAM"AA MESSAGE ON IT. THE MEDALLION SHALL HAVE A FISH SYMBOL WITH A BLUE BACKGROUND.AA IT SHALL BE FIRMLY ATTACHED TO THE TOP OF THE INLET WITH A PERMANENT FASTENER.AA
11. AASEE PLANS FOR SIZE AND LOCATION OF PIPE.AA



SECTION E-E



CLOSE MESH INLET GRATE

QUANTITIES FOR ONE INLET

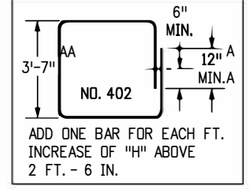
H	CONCRETE (CU. YDS.)	STEEL (LBS.)	NO. STEPS REQ'D.
2'-6"	1.0	76	0
3'-0"	1.1	81	0
3'-6"	1.2	97	0
4'-0"	1.3	102	1
4'-6"	1.5	117	2
5'-0"	1.6	123	2
5'-6"	1.7	138	2
6'-0"	1.9	143	3
6'-6"	2.0	159	3
7'-0"AA	2.1	164	3
7'-6"AA	2.2	180	4
8'-0"AA	2.4	185	4
8'-6"	2.5	200	4
9'-0"AA	2.6	206	5
9'-6"AA	2.8	221	5
10'-0"AA	2.9	236	6
11'-6"AA	3.3	252	6

▼PIPE INSIDE DIAMETER SHALL BE 30 IN. OR LESS.ACONCRETE AND STEEL QUANTITIES ARE FOR ONE ENTIRE INLET BEFORE DEDUCTION FOR VOLUME OCCUPIED BY PIPE. WEIGHT OF STEEL INCLUDES A RING FOR THE MAXIMUM PIPE DIAMETER.

BAR LIST FOR H = 2 FT.-6 IN. AND BENDING DIAGRAM

MARK	NO. REQ'D.	HEIGHT	LENGTH
401	2	2'-2½"	8'-0"A
401	6	2'-7"	8'-8"
402	4	"U"	15'-4"

"U" INCREASE DIMENSION 6 IN. FOR EACH 6 IN. INCREASE OF "H" ABOVE 2 FT.-6 IN.



ADD ONE BAR FOR EACH FT. INCREASE OF "H" ABOVE 2 FT. - 6 IN.

402 BARS SHALL BE EQUALLY SPACED FROM EACH OTHER.

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INLET, TYPE C

Issued by the Project Development Branch: July 31, 2019

STANDARD PLAN NO.
M-604-10
Standard Sheet No. 1 of 1
Project Sheet Number: