TERRAMAX, INC.
CONSULTING ◊ ENGINEERING

4220 GOLF VISTA DRIVE
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(303) 929-3194

STORM SEWER DESIGN

OVERALL SITE PLAN

TOWN OF BENNETT
TRUPP PARK

NO	DATE	BY	CHK'D	DESCRIPTION

REVISIONS

Project No.	728
Date	30/JUN/20
By	LD
Scale	1" = 30'
Sheet	1 X

Plot Date: 06/30/20-10:19am, Plotted by:ldod, Drawing Path: N:\Terramax\Bennett\Trupp Park\Storm Sewer Design\Plan Set\Drawing Name:Trupp Park Storm Sewer Overall Site Plan Exhibit.dwg

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STORM SEWER DESIGN

STORM DESIGN LAYOUT

TOWN OF BENNETT
TRUPP PARK

NO	DATE	BY	CHK'D	DESCRIPTION

REVISIONS

Project No.	728
Date	30/JUN/20
By	LD
Scale	1" = 10'
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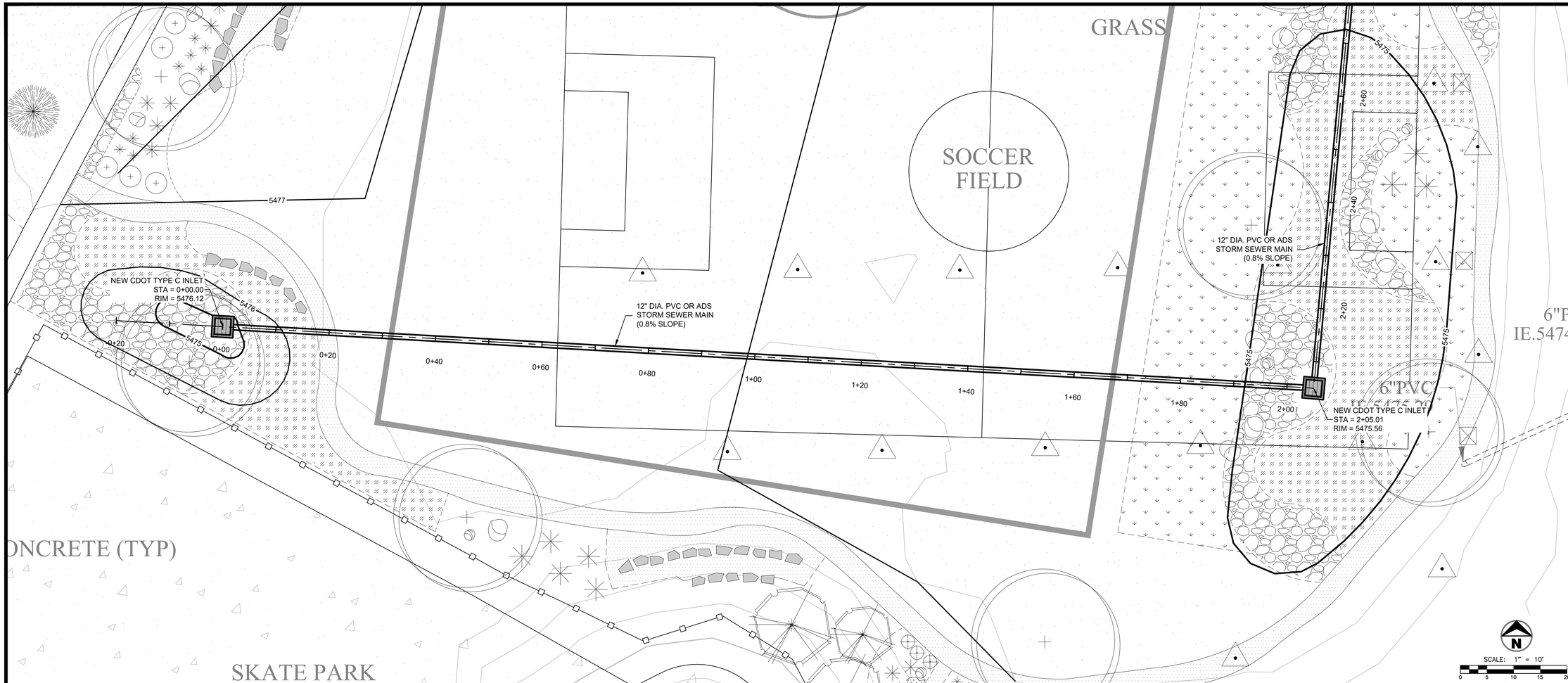

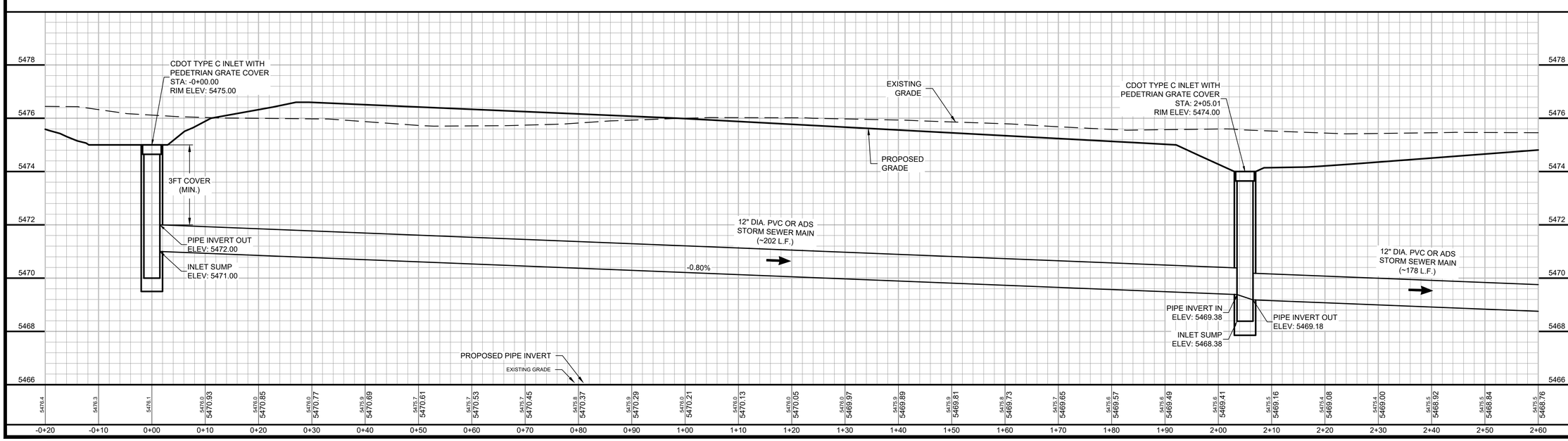

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STORM SEWER DESIGN

STORM SEWER PLAN AND PROFILE

TOWN OF BENNETT
TRUPP PARK

NO	DATE	BY	CHK'D	DESCRIPTION

REVISIONS

Project No.	728
Date	30/JUN/20
By	LD
Scale 1"=10'H/2'V	
Sheet	3

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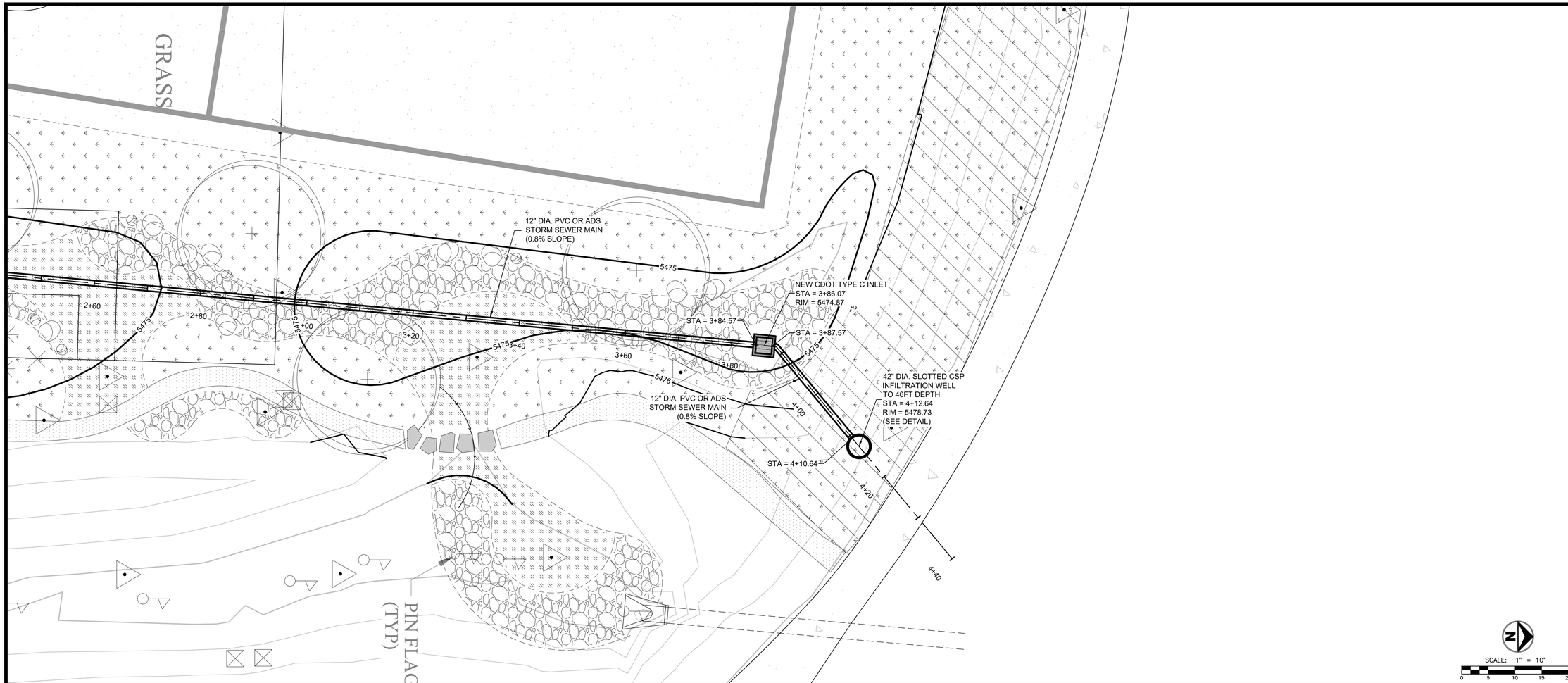

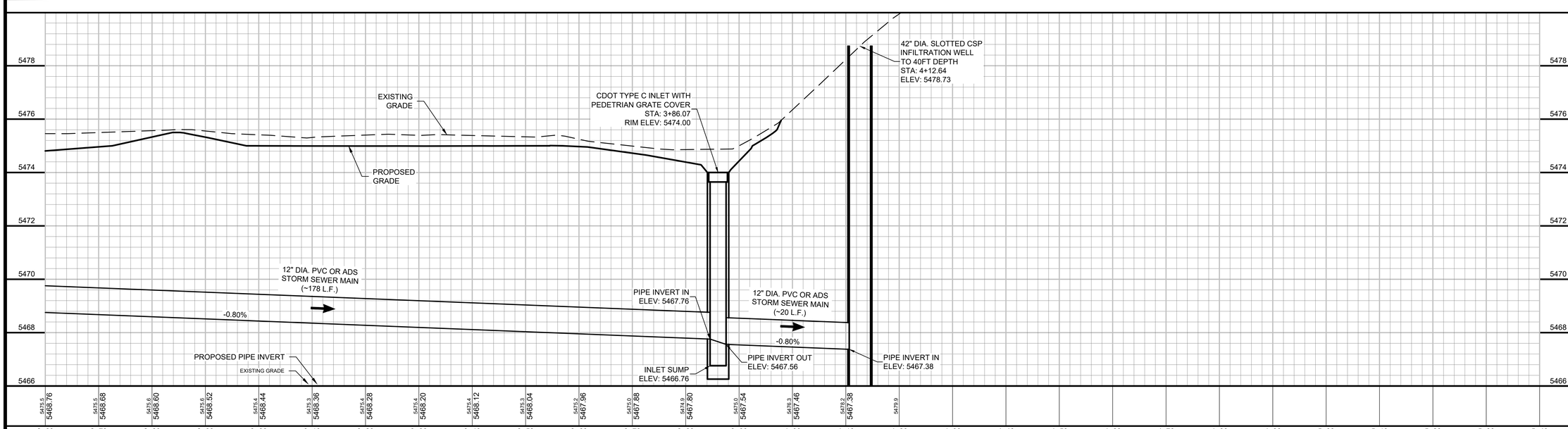

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STORM SEWER DESIGN

STORM SEWER PLAN AND PROFILE

TOWN OF BENNETT
TRUPP PARK

NO	DATE	BY	CHK'D	DESCRIPTION

REVISIONS

Project No.	728
Date	30/JUN/20
By	LD
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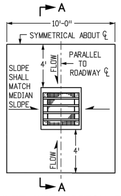
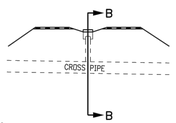


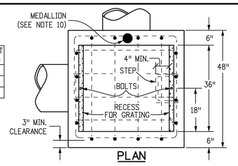
INLET WITH DITCH PAVING

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"	2.98	13
2	3" x ¼" FLAT	26⅝"	2.55	12
			TOTAL LBS. =	131



SECTION VIEW



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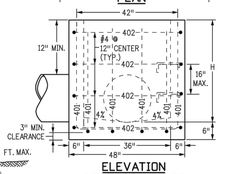
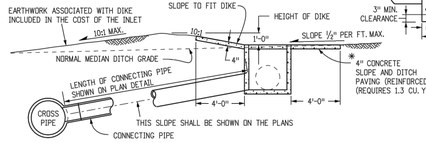
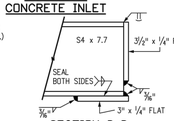


ELEVATION
CONCRETE INLET

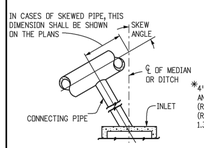


SECTION B-B
INLET CONNECTED TO A CROSS PIPE

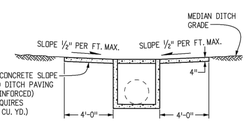
SECTION A-A
INLET ON GRADE (FLOW FROM ONE DIRECTION)



SECTION D-D



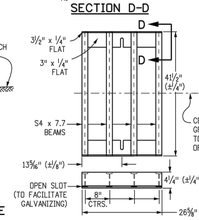
INLET CONNECTED TO A SKEWED CROSS PIPE



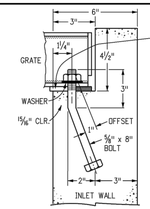
SECTION A-A

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

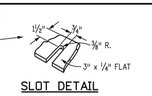
INLET AT BOTTOM OF VERTICAL CURVE (FLOW FROM TWO DIRECTIONS)



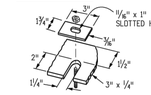
STANDARD INLET GRATE



GRATE INSTALLATION DETAIL



SLOT DETAIL



ALTERNATE SLOT AND HOLD DOWN PLATE DETAIL

GENERAL NOTES

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

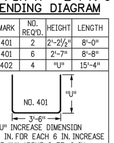
QUANTITIES FOR ONE INLET

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"	2.1	164	3
7'-6"	2.2	180	4
8'-0"	2.4	185	4
8'-6"	2.5	200	4
9'-0"	2.6	206	5
9'-6"	2.8	221	5
10'-0"	2.9	236	6
11'-6"	3.3	252	6

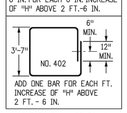
▼ PIPE INSIDE DIAMETER SHALL BE 30 IN. OR LESS. CONCRETE AND STEEL QUANTITIES ARE FOR ONE ENTIRE INLET BEFORE DEDUCTION FOR VOLUME OCCUPIED BY PIPE. WEIGHT OF STEEL INCLUDES A RING FOR THE MAXIMUM PIPE DIAMETER.

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

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

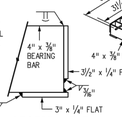


"U" INCREASE DIMENSION 6 IN. FOR EACH 6 IN. INCREASE OF "H" ABOVE 2 FT.-6 IN.

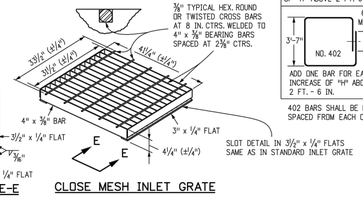


ADD ONE BAR FOR EACH FT. INCREASE OF "H" ABOVE 2 FT.-6 IN.

402 BARS SHALL BE EQUALLY SPACED FROM EACH OTHER.



SECTION E-E



CLOSE MESH INLET GRATE

Computer File Information		Sheet Revisions	
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Colorado Department of Transportation
2829 West Howard Place
CDOT HQ, 3rd Floor
Denver, CO 80204
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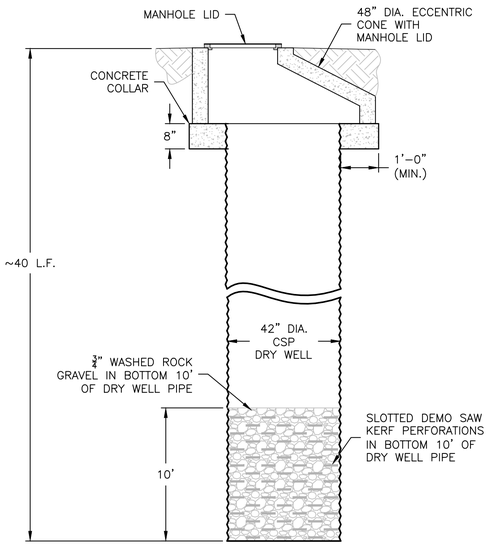
Project Development Branch JBK

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:



INFILTRATION WELL DETAL
NOT TO SCALE

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STORM SEWER DESIGN

DETAILS

TOWN OF BENNETT
TRUPP PARK

NO	DATE	BY	CHK'D	DESCRIPTION

REVISIONS

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