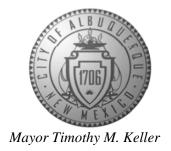
CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



January 22, 2020

Martin Garcia, P.E. Anchor Engineering LLC 1035 S. Bosque Loop Bosque Farms, NM 87123

RE: 144 Texas Street Drainage

Grading and Drainage Plan

Engineer's Stamp Date: 01/13/20

Hydrology File: K19D153

Dear Mr. Garcia:

Based upon the information provided in your submittal received 01/16/2020, the Grading and

Drainage Plan is approved for SO-19 Permit.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Albuquerque

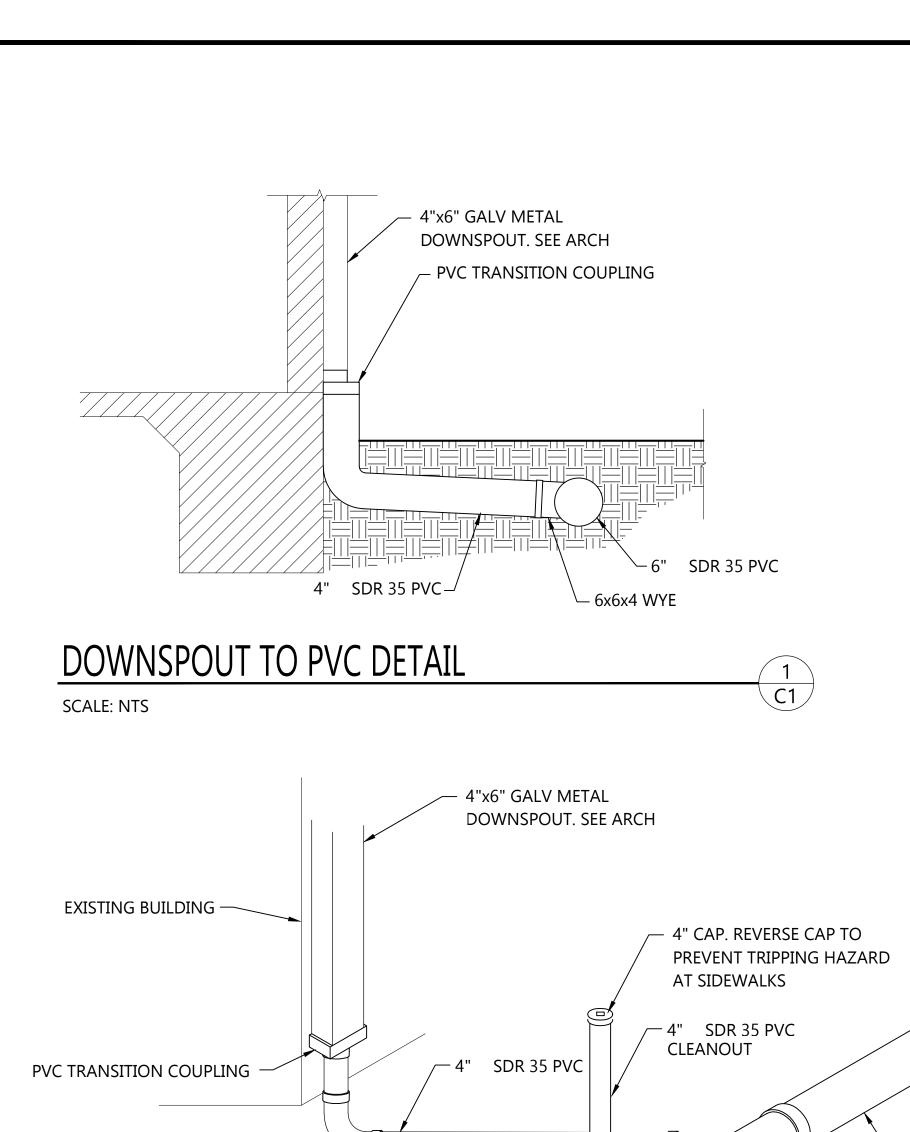
Renée C. Brissette

NM 87103

Renée C. Brissette, P.E. CFM

Senior Engineer, Hydrology

www.cabq.gov Planning Department



Weir CalculationsLENGTH OF STORM DRAIN65 FTSLOPE OF STORM DRAIN1.15%SIZE OF PVC PIPE6" DIAAREA OF ROOF CONTRIBUTING2,215 SF (0.0508 AC)

FROM DRAINAGE CALCULATIONS

STORM DRAIN CAPACITY

 $Q = \frac{1.45}{n} Ar \frac{2}{3} S_0$ n=0.0

 $A = \pi \frac{d^2}{4} = \pi \frac{(0.5)^2}{4} = 0.196 \text{ft}^2$

Per = πd = 3.14(0.5) = 1.57ft

 $r = \frac{h}{p} = \frac{0.196}{1.57} = 0.1248 \quad r = .2496$

 $S_0 = 0.0115$ $S_0 \frac{1}{2} = 0.1072$

TO CHICO ROAD

6" SDR 35 PVC

6x6x4 WYE

6x6x4 TEE

6x6x4 CAP

SDR 35 PVC

1'-0"

- CONSTRUCTION JOINT (OPTIONAL) IS USED, SPACE DOWELS @ 18" O.C. MAX, 1

1/2" MIN FROM FACE OF CONCRETE

SDR 35 PVC

SDR 35 PVC

STEEL PLATE PER COA STD 2236

- FLOWLINE ELEV

— BOTTOM OF

C&G

TOP OF CURB

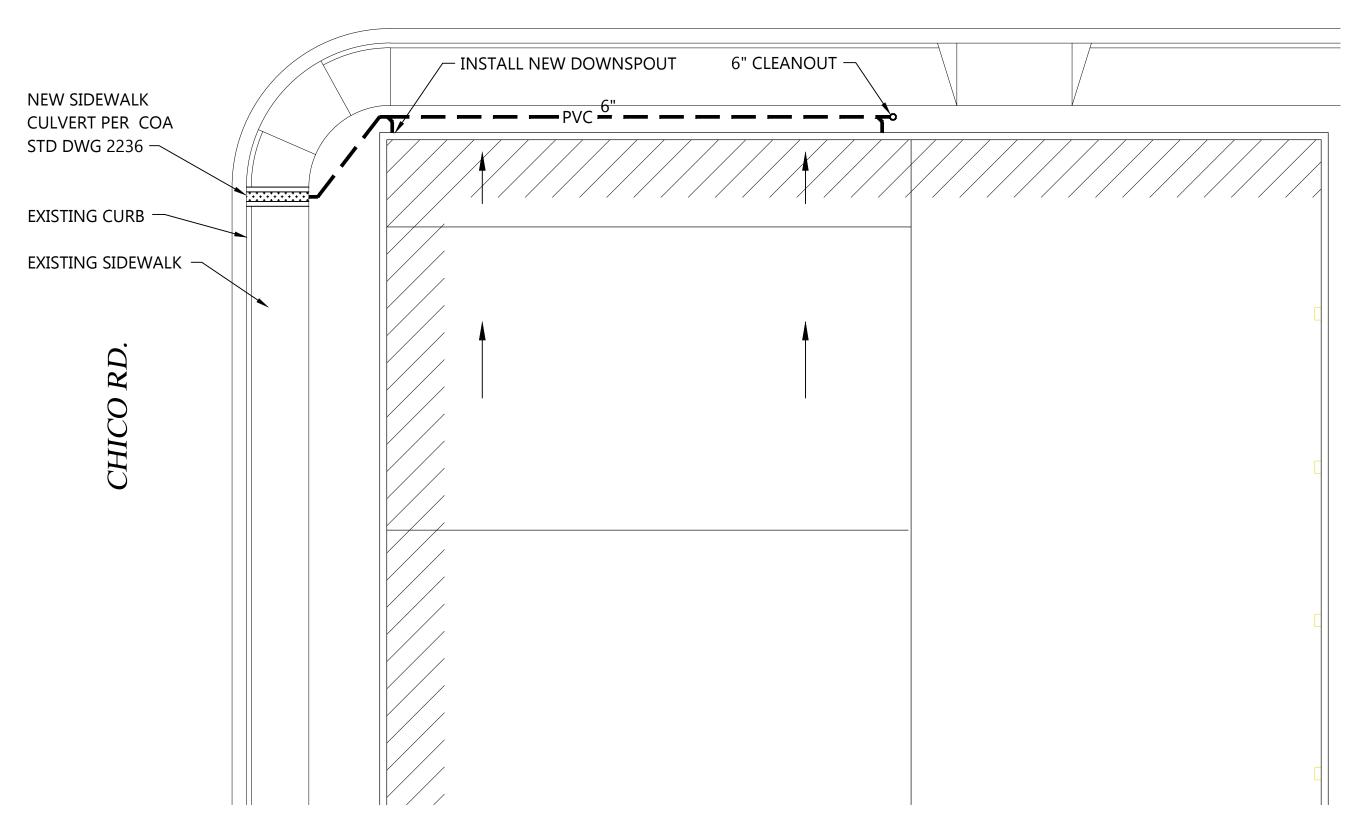
Q CAPACITY = (0.196) (0.2496) (0.1072) QCAP = 0.5209 cfs

DRAINAGE IMPROVEMENT PLAN

SCALE: 1" = 10'

Hydrology Calculations roof top contributing to storm drain								
				14	7 Texas Str	eet NE		
Precipitation :								
100 yr 6 hr Sto	rm							
Basin Area =		0.0508	ac.	2215	sq ft			
Existing								
Land Treatment	Percent	Area (ac.)	Excess Precipitation (in.)	Unit Peak Discharge (cfs/ac.)	Runoff Volume (ac. Ft.)	Peak Discharge (cfs)	SCS Curve Number	Comments
Α	0.00%	0.00	0.66	1.87	0.00	0.00	80.00	Natural Ground
В	0.00%	0.00	0.92	2.60	0.00	0.00	82.00	Landscaped Areas
С	0.00%	0.00	1.29	3.45	0.00	0.00	87.00	Compacted earth
D	100.00%	0.05	2.36	5.02	0.01	0.26	98.00	Impervious Areas
TOTAL	100.00%	0.05	2.36		0.01	0.26	98.00	
					435.19	cu ft		

TEXAS RD.

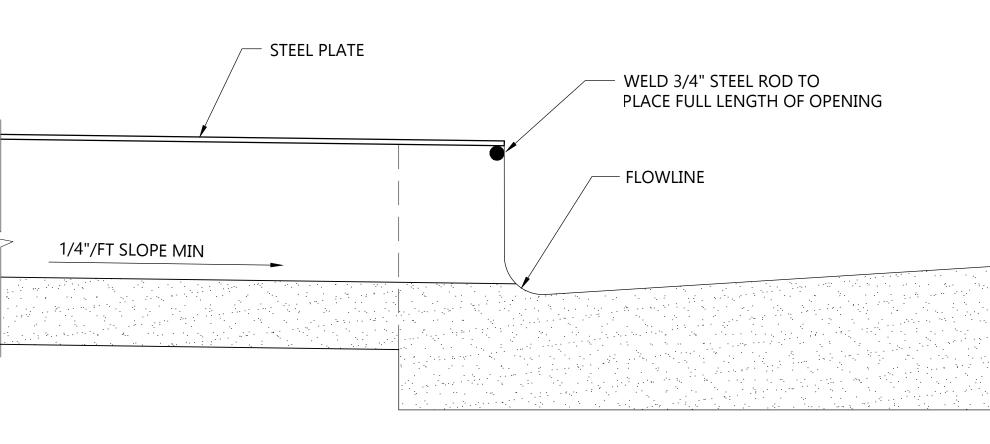


SO-19



Private Drainage Facilities within City Right-of-Way Notice to Contractor (Special Order 19 ~ "SO-19")

- 1. An excavation permit will be required before beginning any work within City Right-Of-Way.
- 2. All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
- Two working days prior to any excavation, the contractor must contact New Mexico One Call, dial "811" [or (505) 260-1990] for the location of existing utilities.
- 4. Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- 5. Backfill compaction shall be according to traffic/street use.
- 6. Maintenance of the facility shall be the responsibility of the owner of the property being served.
- 7. Work on arterial streets may be required on a 24-hour basis.
- 8. Contractor must contact Augie Armijo at (505) 857-8607 and Construction Coordination at 924-3416 to schedule an inspection.

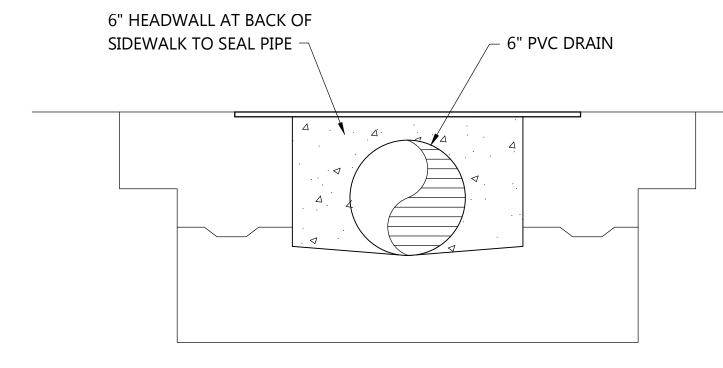


SECTION THRU C&G

SIDEWALK CULVERT SECTION THROUGH CURB

SCALE: NTS

(COA STD DWG 2236) 4 C1



DRAIN PIPE HEADWALL AT CULVERT

SCALE: NTS



C1

<u>C1</u>



DRAIN PIPE ISOMETRIC

SCALE: NTS

MATCH NEAREST CONTROL JOINT,

INSTALL 1/2" EXP JOINT

t-of-Way

beginning any