

BROTHERS' CONSTRUCTION, INC.

S. 33rd St

Culvert Replacement Scope

1	Mobilization	1	LS	\$4,000.00	\$4,000.00
2	Demolition and Disposal of existing Structures	1	LS	\$7,500.00	\$7,500.00
3	Repair existing 42" RCP	1	EA	\$5,275.00	\$5,275.00
4	42" RCP CL III	16	LF	\$375.00	\$6,000.00
5	42" RCP Mitered End with Apron	2	EA	\$5,117.00	\$10,234.00
6	42" Concrete Collars	2	EA	\$2,450.00	\$4,900.00
7	Embankment to fill existing ditch	300	CY	\$10.00	\$3,000.00
8	4" Thick 3000 PSI Concrete w/ Fiber for Driveway	36	SY	\$28.00	\$1,008.00
9	Sodding Bahia	200	SY	\$2.50	\$500.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
	TOTAL LUMP SUM		LS		\$42,417.00

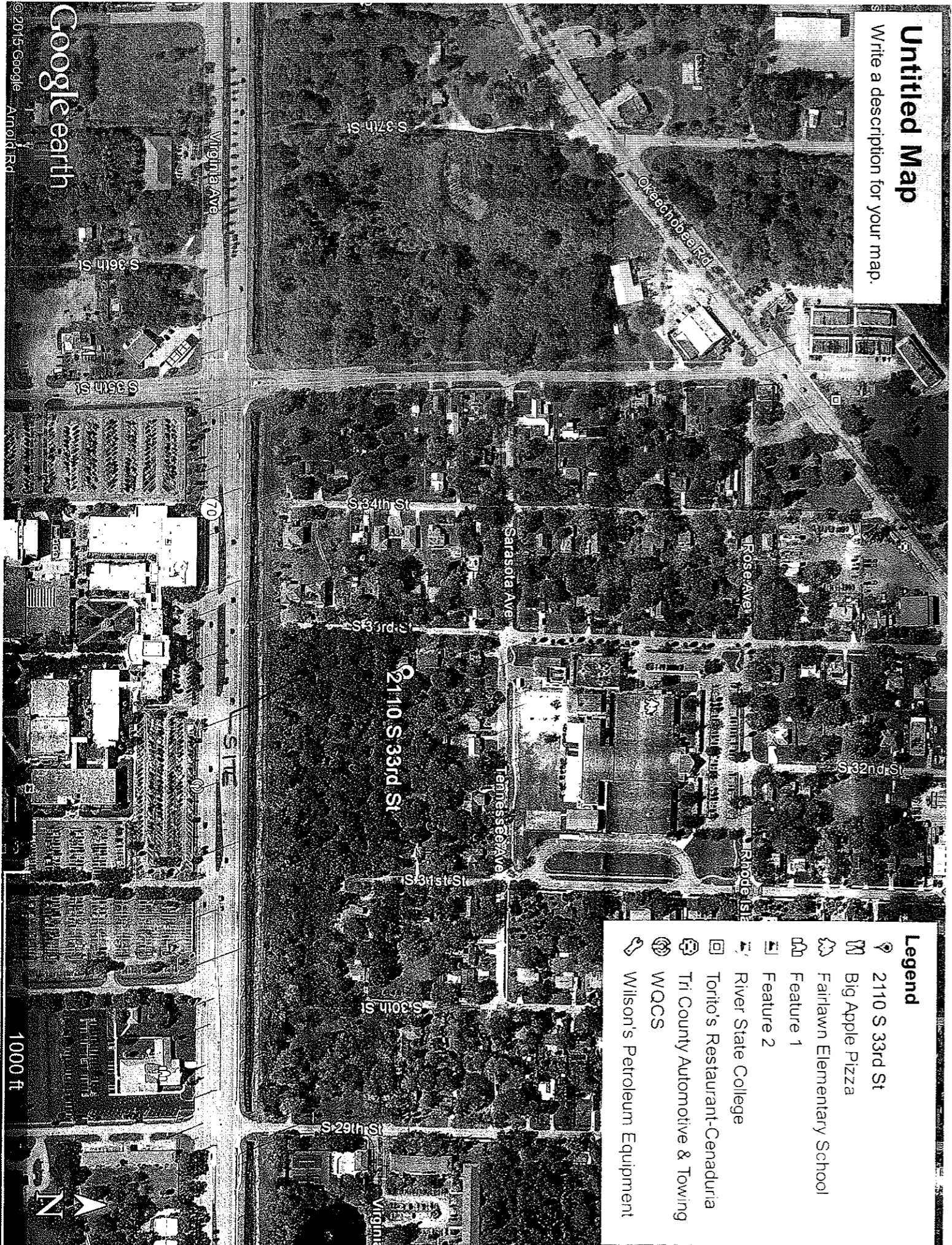
Clarifications and exclusions:

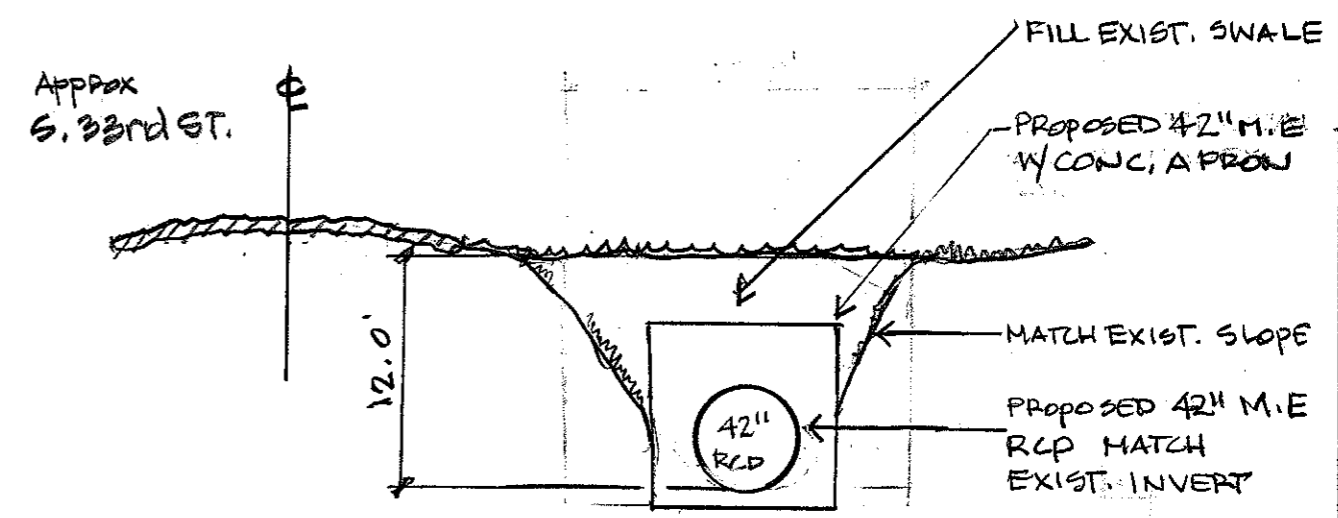
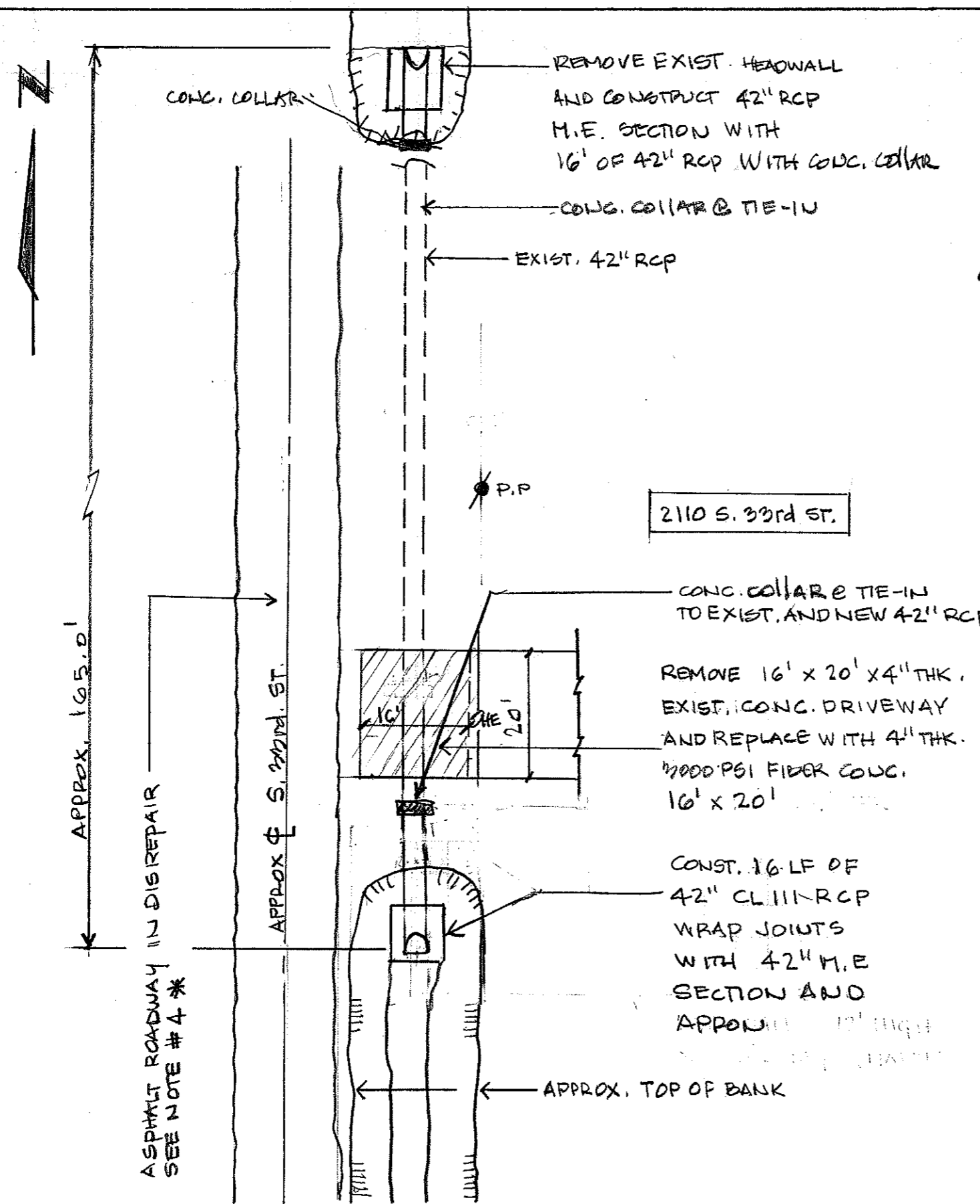
- a. We have not including any engineering, testing, survey, as-builts, permits or permit fees.
- b. We have included repairing the existing culvert at the driveway with a concrete collar.
- c. We have included constructing (2) 42" Mitered ends with concrete collars.
- d. We have included dewatering for construction of the 42" RCP.
- e. Roadway repairs are not included.(Existing roadway is broken up and is not repairable)

Untitled Map

Write a description for your map.

- ### Legend
- 📍 2110 S 33rd St
 - 🍕 Big Apple Pizza
 - 🎒 Fairlawn Elementary School
 - 📄 Feature 1
 - 📄 Feature 2
 - 🏫 River State College
 - 🍽️ Torio's Restaurant-Cenaduria
 - 🚗 Tri County Automotive & Towing
 - 🛢️ WQCS
 - 🛢️ Wilson's Petroleum Equipment





42" M.E. CONFIGURATION
APPROX. 1" = 10.0'

NOTES:

1. PRICE INCLUDES; MOB, 42" RCP, 42" RCP M.E WITH APRONS, BACKFILL, SOD, & (2) CONC. COLLARS TO JOIN PIPE.
2. CONC. DIAPER TO BE POURED TO CONNECT EXIST. AND PROPOSED 42" RCP.
3. ALLOWANCE OF 200 S.Y. SOD (BATHA)
- * 4. ASPHALT ROADWAY REPAIRS NOT INCLUDED.

BROTHERS CONST., INC.

DRAWN BY - BBB
DATE - 9-1-15

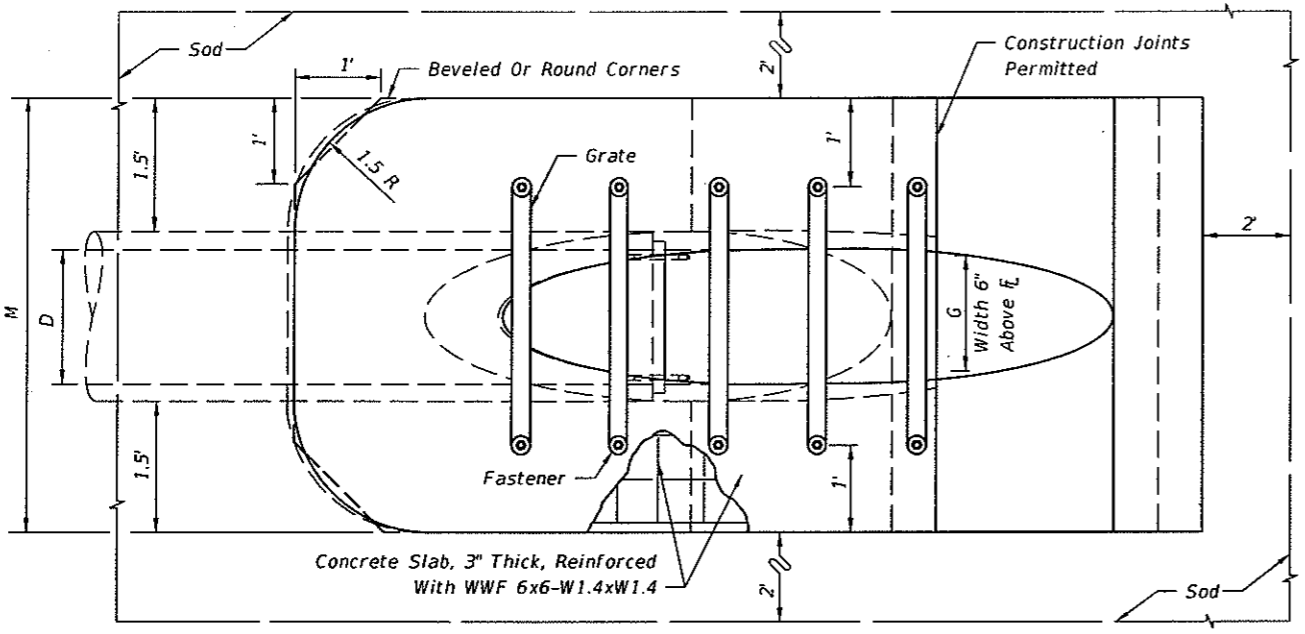
PARTIAL PLAN @ 2110 S. 33rd St. 1" = 20.0'

DIMENSIONS & QUANTITIES

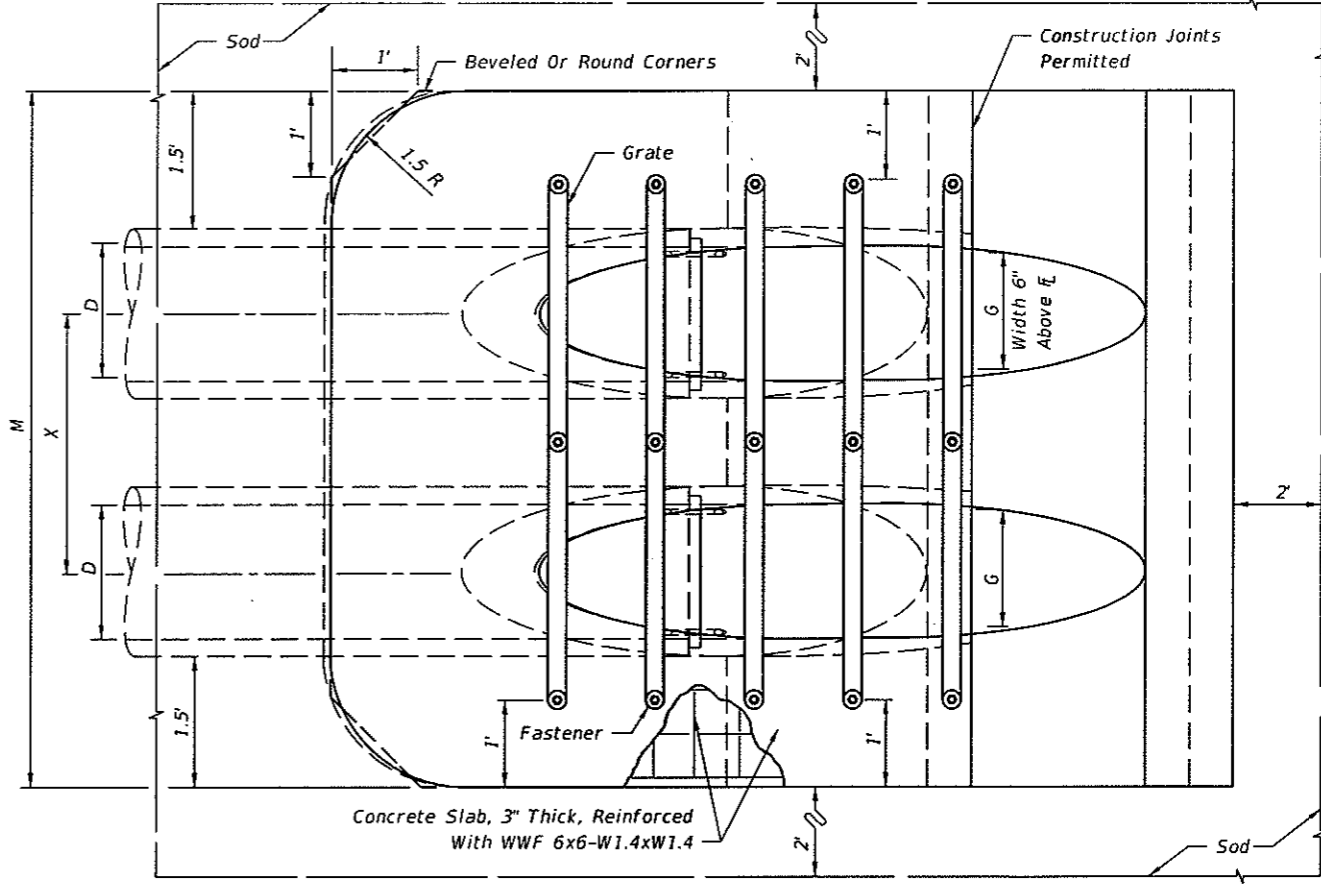
D	X	A	B	C	E	F	G	H	M				N	GRATE SIZES		CONCRETE (CY)				SODDING (SY)			
									Single Pipe	Double Pipe	Triple Pipe	Quad Pipe		Standard Weight Pipe	Extra Strong Pipe	Single Pipe	Double Pipe	Triple Pipe	Quad Pipe	Single Pipe	Double Pipe	Triple Pipe	Quad Pipe
15"	2'-7"	2.27'	4.09'	6.36'	4.03'	8'	1.22'	4.0'	4.63'	7.21'	9.79'	12.37'	1.19'			0.76	1.16	1.54	1.94	8	10	11	12
18"	2'-10"	2.36'	5.12'	7.48'	5.03'	9'	1.41'	4.0'	4.92'	7.75'	10.58'	13.42'	1.21'			0.85	1.28	1.71	2.17	9	10	12	13
24"	3'-5"	2.53'	7.18' Δ	9.71'	7.03' Δ	11'	1.73'	4.0'	5.50'	8.92'	12.33'	15.75'	1.25'			1.02	1.58	2.15	2.75	10	12	13	15
30"	4'-3"	2.70'	9.25'	11.95'	9.03'	13'	2.00'	4.0'	6.08'	10.33'	14.58'	18.83'	1.29'	2 1/2"	3"	1.23	1.98	2.74	3.50	12	14	15	17
36"	5'-1"	2.87'	11.31' ◇	14.18'	11.03' ◇	15'	2.24'	4.0'	6.67'	11.75'	16.83'	21.92'	1.33'	2 1/2"	3"	1.40	2.38	3.33	4.24	13	15	17	20
42"	6'-0"	3.05'	13.37'	16.42'	13.03'	17'	2.45'	4.0'	7.25'	13.25'	19.25'	25.25'	1.38'	2 1/2"	3 1/2"	1.60	2.83	4.04	5.26	14	17	19	22
48"	6'-9"	3.22'	15.43'	18.65'	15.03'	19'	2.65'	4.0'	7.83'	14.58'	21.33'	28.08'	1.42'	2 1/2"	3 1/2"	1.81	3.26	4.70	6.14	15	18	21	24
54"	7'-8"	3.39'	17.49'	20.88'	17.03'	21'	2.83'	4.0'	8.42'	16.08'	23.75'	31.42'	1.46'	3"	4"	2.03	3.78	5.54	7.28	17	20	23	27
60"	8'-6"	3.56'	19.55'	23.11'	19.03'	23'	3.00'	4.0'	9.00'	17.50'	26.00'	34.50'	1.50'	3"	4"	2.28	4.36	6.43	8.50	18	22	25	29

Δ 6.42' Δ 6.25' Dimensions permitted to allow use of 8' standard pipe lengths.
 ◇ 10.40' ◇ 10.10' Dimensions permitted to allow use of 12' standard pipe lengths.
 Δ ◇ Concrete slab shall be deepened to form bridge across crown of pipe. See section below.

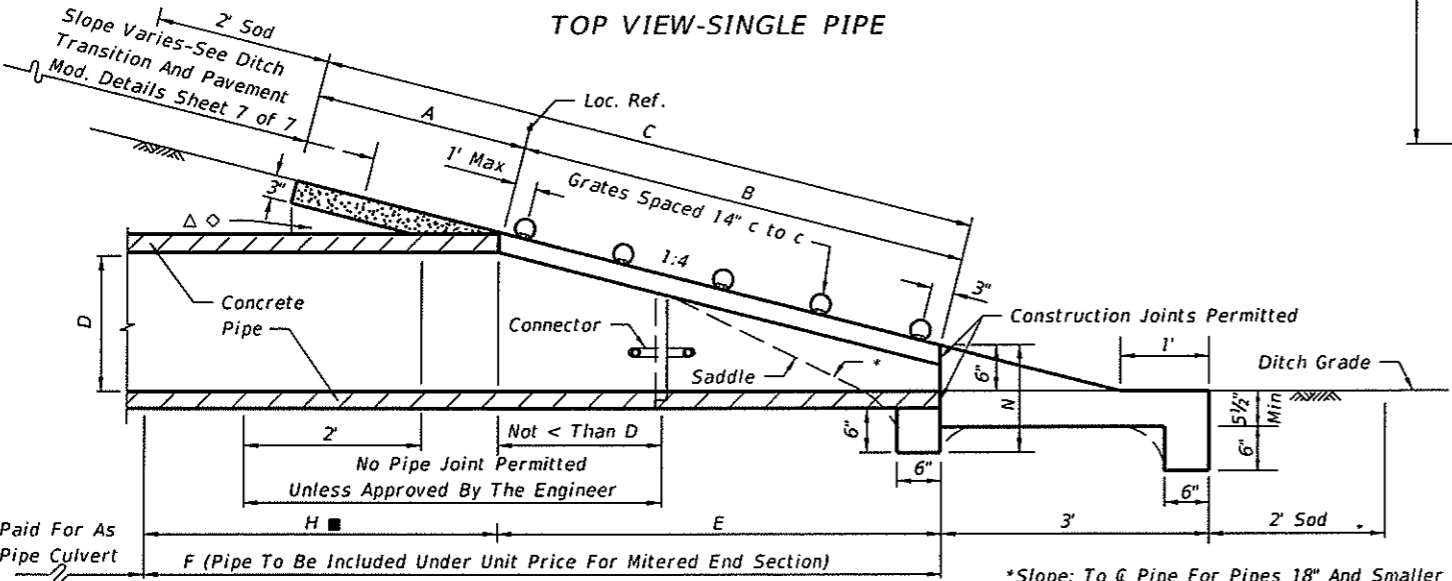
■ Values shown for estimating pipe quantities and are for information only.



TOP VIEW-SINGLE PIPE



TOP VIEW-MULTIPLE PIPE




SECTION

Note: See Sheets 6 and 7 for details and general notes.

SINGLE AND MULTIPLE ROUND CONCRETE PIPE

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LAST REVISION 07/01/02	REVISION	DESCRIPTION:	 FDOT 2014 DESIGN STANDARDS	SIDE DRAIN MITERED END SECTION	INDEX NO. 273	SHEET NO. 1 of 7
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