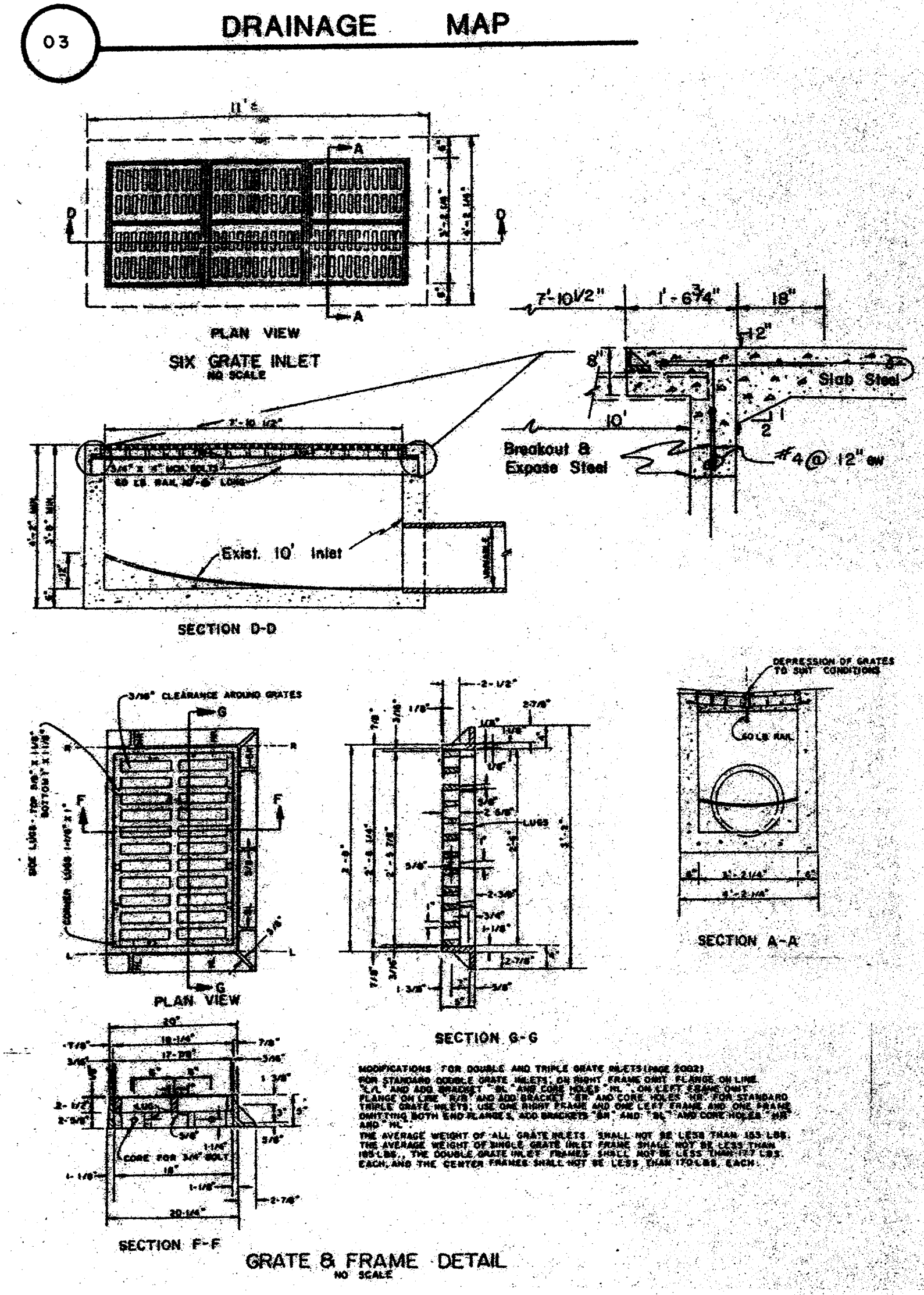
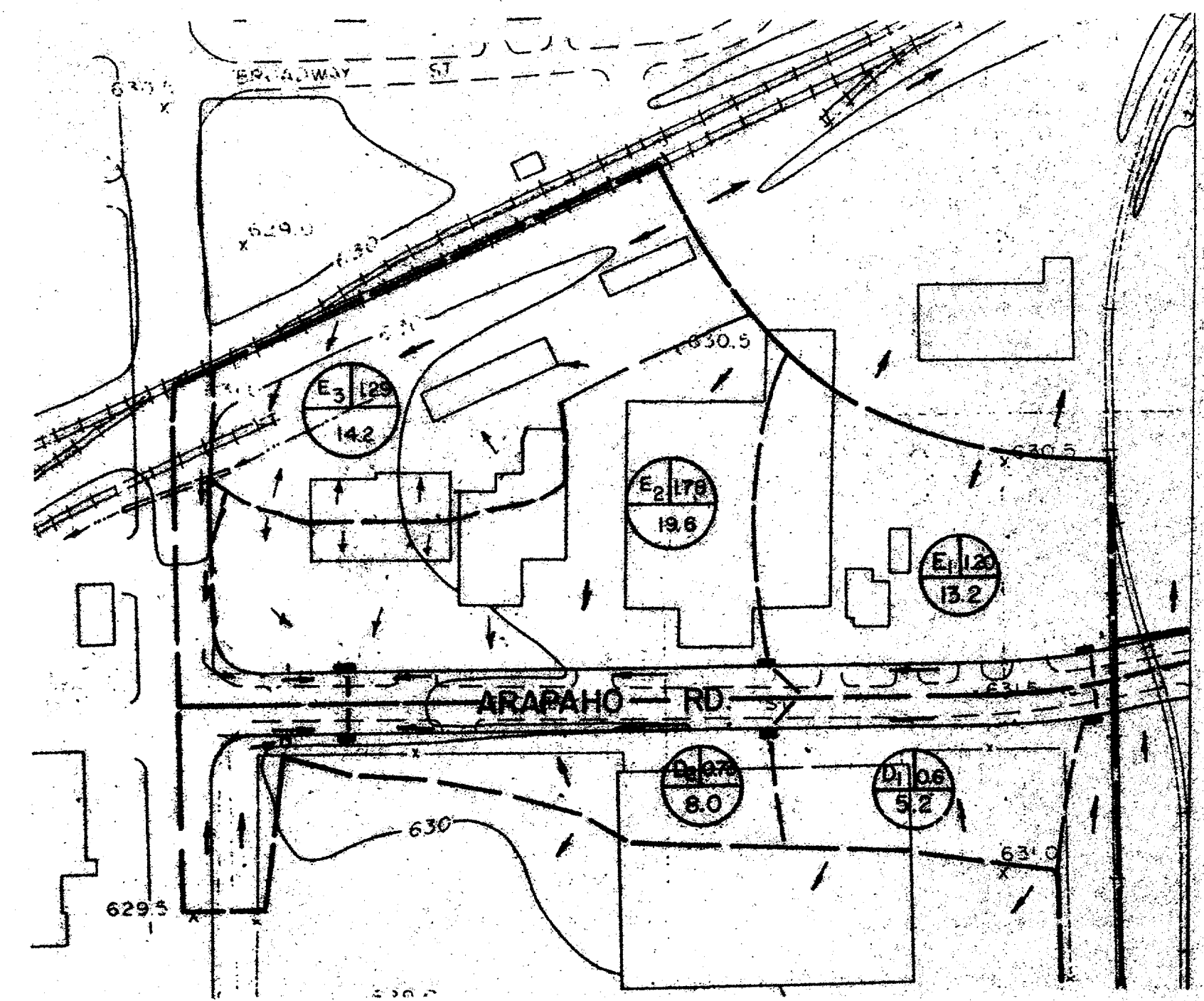
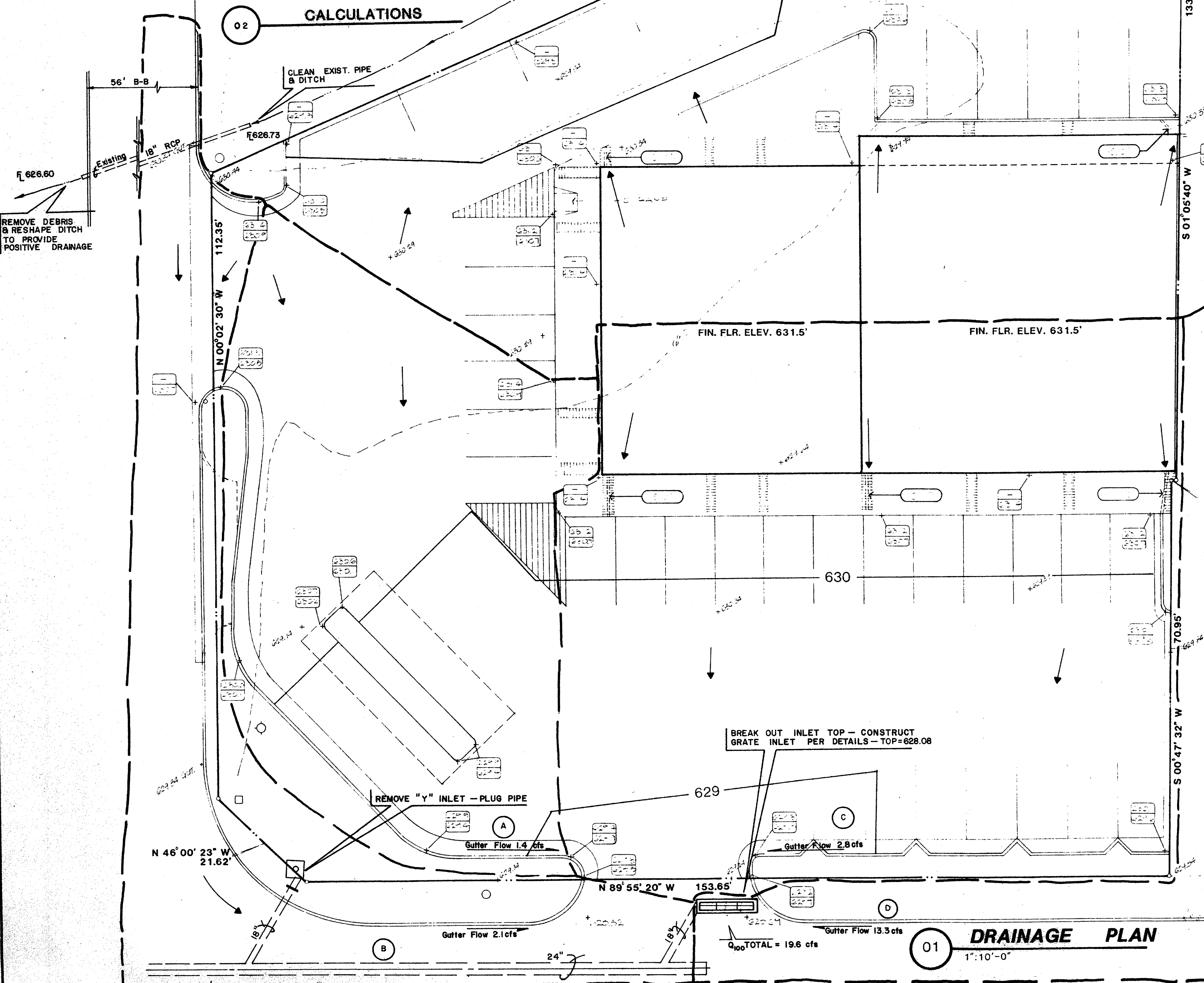


INLET CONTROL		OUTLET CONTROL		CULVERT ENTRANCE DATA		CULVERT DESIGN CALCULATIONS	
CONCRETE BOX CULVERT	FLARE ANGLE	CONCRETE BOX CULVERT	FLARE ANGLE	CONCRETE BOX CULVERT	FLARE ANGLE	CONCRETE BOX CULVERT	FLARE ANGLE
1A	30°	1A	30°	1A	30°	1A	30°
1B	30°	1B	30°	1B	30°	1B	30°
1C	30°	1C	30°	1C	30°	1C	30°
1D	30°	1D	30°	1D	30°	1D	30°
1E	30°	1E	30°	1E	30°	1E	30°
1F	30°	1F	30°	1F	30°	1F	30°
1G	30°	1G	30°	1G	30°	1G	30°
1H	30°	1H	30°	1H	30°	1H	30°
1I	30°	1I	30°	1I	30°	1I	30°
1J	30°	1J	30°	1J	30°	1J	30°
1K	30°	1K	30°	1K	30°	1K	30°
1L	30°	1L	30°	1L	30°	1L	30°
1M	30°	1M	30°	1M	30°	1M	30°
1N	30°	1N	30°	1N	30°	1N	30°
1O	30°	1O	30°	1O	30°	1O	30°
1P	30°	1P	30°	1P	30°	1P	30°
1Q	30°	1Q	30°	1Q	30°	1Q	30°
1R	30°	1R	30°	1R	30°	1R	30°
1S	30°	1S	30°	1S	30°	1S	30°
1T	30°	1T	30°	1T	30°	1T	30°
1U	30°	1U	30°	1U	30°	1U	30°
1V	30°	1V	30°	1V	30°	1V	30°
1W	30°	1W	30°	1W	30°	1W	30°
1X	30°	1X	30°	1X	30°	1X	30°
1Y	30°	1Y	30°	1Y	30°	1Y	30°
1Z	30°	1Z	30°	1Z	30°	1Z	30°

DESIGN FLOW (cfs) BY RATIONAL METHOD					
LOCATION	Time of Catchment (min)	Runoff Coefficient	Area (Ac)	Design Flow (cfs)	Design Flow (cfs)
E1	10	0.15	1.0	1.5	1.5
E2	10	0.15	1.0	1.5	1.5
E3	10	0.15	1.0	1.5	1.5
E4	10	0.15	1.0	1.5	1.5
E5	10	0.15	1.0	1.5	1.5
E6	10	0.15	1.0	1.5	1.5
E7	10	0.15	1.0	1.5	1.5
E8	10	0.15	1.0	1.5	1.5
E9	10	0.15	1.0	1.5	1.5
E10	10	0.15	1.0	1.5	1.5
E11	10	0.15	1.0	1.5	1.5
E12	10	0.15	1.0	1.5	1.5
E13	10	0.15	1.0	1.5	1.5
E14	10	0.15	1.0	1.5	1.5
E15	10	0.15	1.0	1.5	1.5
E16	10	0.15	1.0	1.5	1.5
E17	10	0.15	1.0	1.5	1.5
E18	10	0.15	1.0	1.5	1.5
E19	10	0.15	1.0	1.5	1.5
E20	10	0.15	1.0	1.5	1.5
E21	10	0.15	1.0	1.5	1.5
E22	10	0.15	1.0	1.5	1.5
E23	10	0.15	1.0	1.5	1.5
E24	10	0.15	1.0	1.5	1.5
E25	10	0.15	1.0	1.5	1.5
E26	10	0.15	1.0	1.5	1.5
E27	10	0.15	1.0	1.5	1.5
E28	10	0.15	1.0	1.5	1.5
E29	10	0.15	1.0	1.5	1.5
E30	10	0.15	1.0	1.5	1.5

GRATE INLET DESIGN:
 Openings / grate = 22 ea
 Size of openings / grate = 7.4375" x 1.625"
 Area of openings / grate = 11.84 sf
 6 Grate Openings Area = 71.04 sf
 Inlet Capacity = 0.7 A^{1/2}gh
 at depth = 4"; Capacity = 35.8 cfs
 Design Flow = 19.6 cfs



GINN, INC.
 CONSULTING ENGINEERS
 DALLAS, TEXAS

DATE RECEIVED: 30 APRIL 85
 DATE REVIEWED: [Signature]
 NO OBJECTIONS [Signature]
 MAKE CORRECTIONS NOTED [Signature]
 SUBMIT SPECIFIED ITEMS [Signature]

North

STATE OF TEXAS
 DANIEL W. RYAN
 REGISTERED PROFESSIONAL ENGINEER

EDI ARCHITECTS, INC.
 ARCHITECTURE PLANNING ENGINEERING INTERIOR DESIGN
 8440 WALNUT HILL LANE
 SUITE 100
 DALLAS, TEXAS 75231
 817 / 760-1646

Old Town 7-11/Strip Center
 Ben Pinnell
 Addison, Texas

DATE: 30 APRIL 85

SHEET NO: **A1.2**
 3A OF 39 SHEETS
 JOB NO: 8431.00