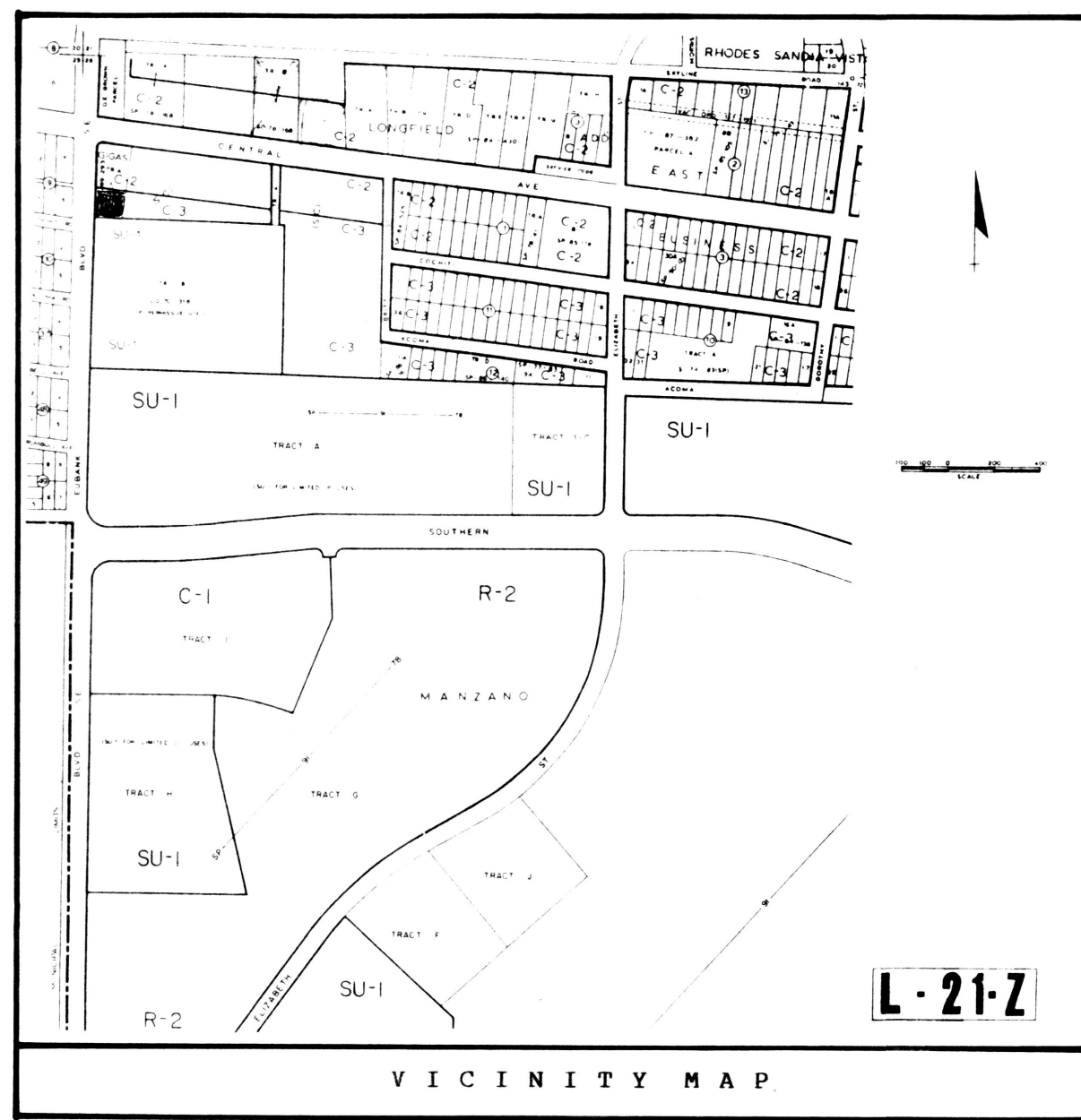
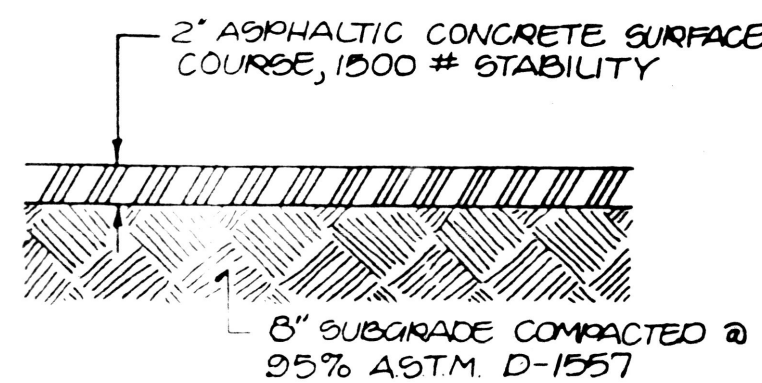


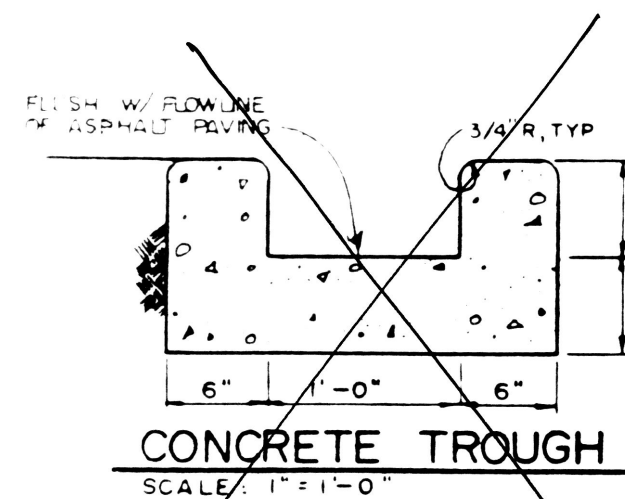


LEGEND:

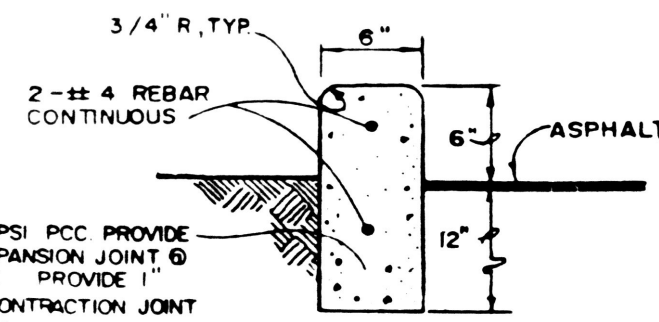
- T.O. = 66.08 = TOP OF CURB ELEVATION
- E = 66.30 = CURB FLOW LINE ELEVATION
- 66.0 --- = EXISTING OR PROPOSED CONCRETE
- 66.0 --- = EXISTING CONTOUR
- 66.0 --- = PROPOSED CONTOUR
- 66.0 --- = EXISTING FENCE (CHAIN LINK)
- 66.0 --- = PROPOSED FENCE ELEVATION
- 66.0 --- = PROPOSED LIMIT OF NEW PAVING



TYPICAL PAVEMENT SECTION
SCALE: 1" = 1'-0"



CONCRETE TROUGH
SCALE: 1" = 1'-0"

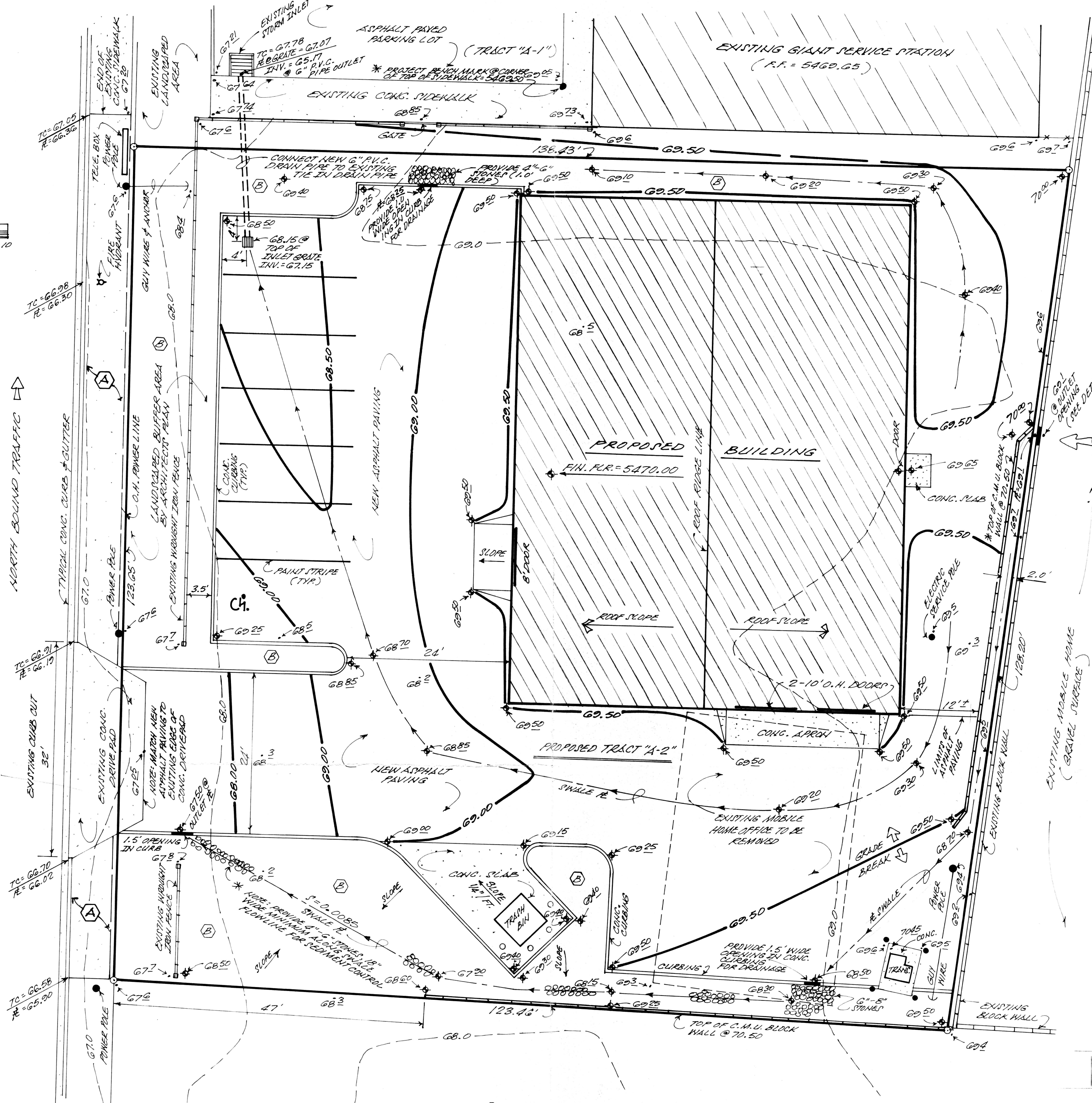


HEADER CURB DETAIL
SCALE: 1" = 1'-0"

EROSION CONTROL MEASURES:

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT FOR STORM RUN-OFF DURING CONSTRUCTION; HE SHALL INSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

- ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTIES.
- ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREETS.
- THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY AND ALL SEDIMENT WITHIN PUBLIC STREETS THAT HAS BEEN BRODDED FROM THE SITE AND DEPOSITED THERE.



$$\text{DIAMETER OF PIPE: } d_i = \frac{(1630) (1.61) (0.013)^{3/8}}{(0.06)^{1/2}} = \frac{34.12^{3/8}}{0.2449} = 6.36"$$

$$Q = 1.61 \quad n = 0.013 \quad s = 6\%$$

$$\text{FORMULA: } d_i = \frac{1630 Q n^{3/8}}{s^{1/2}}$$

SINGLE "D" INLET CAPACITY CALCULATION:

$$Q = \text{CPH}^{3/2} \quad P = 2b + 2w = 2 (2.96) + 2 (1.54) = 9.0'$$

$$Q = (3.0) (9.0) (0.4)^{3/2} = (3.0) (9.0) (0.253)^{3/2} = 6.83 \text{ CFS}$$

CONSTRUCTION NOTES:

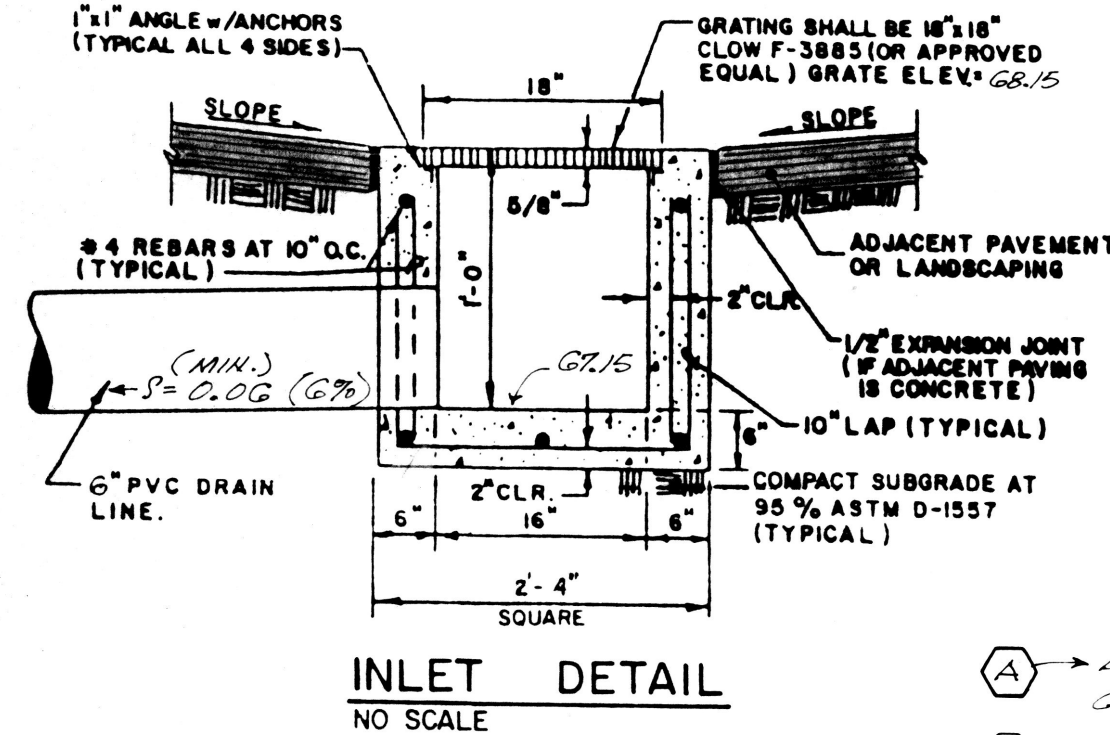
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 260-1990 FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS; SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
- 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.
- ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.

LEGAL DESCRIPTION:

PROPOSED TRACT "A-2" OF THE REPLAT OF TRACT "A" OF THE GIGAS ADDITION, TO THE CITY OF ALBUQUERQUE, NEW MEXICO.

BENCH MARK REFERENCE:

ACS STATION "5-L21(R)", M.S.L.D. ELEVATION = 5466.535; PROJECT BENCH MARK AS SHOWN ON THE PLAN HEREON.



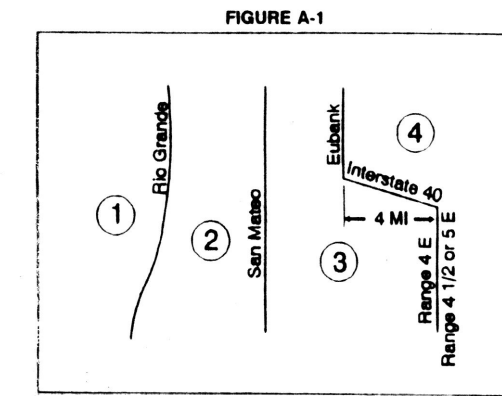
INLET DETAIL
NO SCALE

- (A) = DEGRADED NEW 6.0' CONCRETE SIDEWALK
- (B) = PROPOSED LANDSCAPED AREA

A1 PRECIPITATION ZONES

Bernalillo County's four precipitation zones are indicated in TABLE A-1 and on FIGURE A-1.

TABLE A-1. PRECIPITATION ZONES	
Zone	Location
1	West of the Rio Grande
2	Between the Rio Grande and San Mateo
3	Between San Mateo and Eubank, North of Interstate 40, and between San Mateo and the East boundary of Range 4 East, South of Interstate 40
4	East of Eubank, North of Interstate 40, and East of the East boundary of Range 4 East, South of Interstate 40



Where a watershed extends across a zone boundary, use the zone which contains the largest portion of the watershed.

DRAINAGE COMMENTS AND CALCULATIONS:

AS SHOWN ON THE PLAN HEREON, THE SUBJECT SITE IS LOCATED ON THE EAST SIDE OF EUBANK BLVD. S.E. APPROXIMATELY 200.0' SOUTH OF EAST CENTRAL AVENUE, IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, (ZONE ATLAS MAP "L-21-2").

THE SUBJECT SITE, 1.) IS NOT LOCATED WITHIN A DESIGNATED FLOODPLAIN (RE: FEMA PANEL 37 OF 50), 2.) IS PRESENTLY AN UNDEVELOPED VACANT LOT, 3.) DOES NOT LIE ADJACENT TO A NATURAL OR ARTIFICIAL WATER COURSE, 4.) DOES NOT CONTRIBUTE TO OFFSITE FLOWS OF ADJACENT PROPERTIES, 5.) ACCEPTS OFFSITE FLOWS FROM THE ADJACENT PROPERTY WHICH LIES EAST OF THE SUBJECT SITE; THESE OFFSITE FLOWS WILL CONTINUE TO BE ACCEPTED AND PASSED THROUGH THE PROPOSED DEVELOPED SUBJECT SITE, 6.) ALL PROPOSED DEVELOPED FLOWS OF THE SUBJECT SITE WILL BE DIRECTED TOWARD AND INTO A PROPOSED STORM INLET AS SHOWN ON THE PLAN HEREON; THESE DEVELOPED FLOWS WILL THEN BE DIRECTED INTO AN EXISTING STORM DRAIN INLET THAT IS LOCATED WITHIN THE EXISTING PARKING LOT OF THE G.M.T. SERVICE STATION FACILITIES THAT IS LOCATED NORTH OF AND ADJACENT TO THE SUBJECT SITE; THE EXISTING STORM FACILITIES WITHIN THE GIANT SERVICE STATION SITE WAS DESIGNED AND CONSTRUCTED TO ACCEPT THE DEVELOPED FLOWS FROM THE SUBJECT SITE HEREON.

CALCULATIONS:

PER SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE, NEW MEXICO, DATED JANUARY, 1993.

SITE AREA: 0.39 ACRE

PRECIPITATION ZONE: THREE (3)

PEAK INTENSITY: 5.38

EXISTING CONDITIONS:

TREATMENT	AREA/ACRES	X	FACTOR	CFS
A	0.00	X	1.87	= 0.00
B	0.00	X	2.60	= 0.00
C	0.39	X	3.45	= 1.35
D	0.00	X	5.02	= 0.00

"Q" = 1.35 CFS

PROPOSED DEVELOPED CONDITIONS:

TREATMENT	AREA/ACRES	X	FACTOR	CFS
A	0.00	X	1.87	= 0.00
B	0.07	X	2.60	= 0.18
C	0.00	X	3.45	= 0.00
D	0.32	X	5.02	= 1.61

"Q" = 1.79 CFS *** INCREASE = 0.44 CFS

* OFFSITE FLOWS: (AREA = 2.7 ACRES +)

TREATMENT	AREA/ACRES	FACTOR	CFS
C	1.75	X	3.45 = 6.04
D	0.95	X	5.02 = 4.77

OFFSITE "Q" = 10.81 CFS

* NOTE: "ORIFICE OPENING IN WALL" = 0.65' X 2.65' = 1.72 SQ. FT.

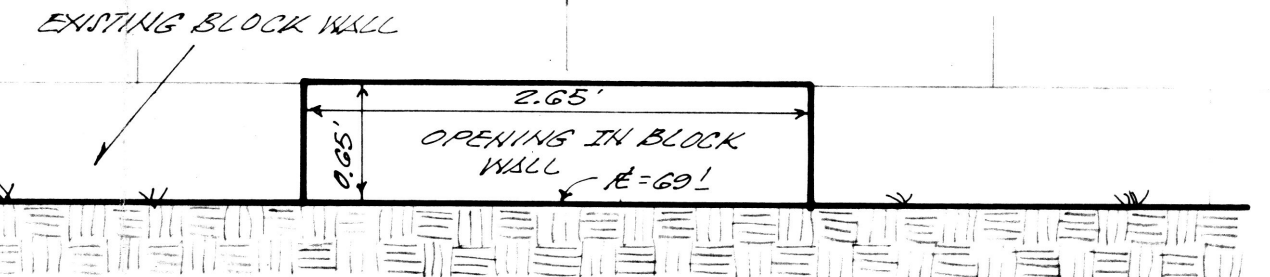
$$Q = \frac{2}{3} L \sqrt{2g} \times h^{1.5}$$

$$L = 2.65'$$

$$H = 0.65'$$

$$\text{ORIFICE EQUATION} = \frac{2}{3} \times 2.65 \times \sqrt{64.4} \times 0.65^{1.5}$$

$$= \frac{2}{3} \times 2.65 \times 8.02 \times 0.524 = 7.42 \text{ CFS}$$



DETAIL "A"
SCALE: 1" = 1'-0"

GENERAL NOTES:

- NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.
- NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT SITE OTHER THAN THOSE SHOWN ON THE PLAT OF RECORD.
- REFER TO "ARCHITECTURAL SITE PLAN" FOR FIELD LAYOUT OF THE PROPOSED IMPROVEMENTS.
- TOPOGRAPHY SURVEY OBTAINED BY "TRANSIT-STADIA" METHOD.

A PROPOSED GRADING AND DRAINAGE PLAN

FOR
MR. "Z" ALITO SALES
120 EUBANK BLVD. S.E.
ALBUQUERQUE, NEW MEXICO
DECEMBER, 1993

