



KEN SCHULTZ
MAYOR

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 11, 1989

Richard Hall, P.E.
Hall Engineering
6840 Second Street, NW
Albuquerque, New Mexico 87107

RE: CERTIFICATION FOR BURGER KING RESTAURANT
(J-19/D52) CERTIFICATION STATEMENT DATED MARCH 31, 1989

Dear Mr. Hall:

Based on the information provided on your resubmittal of April 4, 1989,
Certification is acceptable.

If I can be of further assistance, please feel free to call me at 768-2650.

Cordially,

Bernie J. Montoya
Bernie J. Montoya, C.E.
Engineering Assistant

BJM/bsj
(WP+926)

GRADING & DRAINAGE PLAN

PROJECT TITLE: OF BURR - KING REST. ZONE ATL, DRNG. FILE #: J-19-2/D52

LEGAL DESCRIPTION: LOT 1A, BLOCK 32, MESA DEL NORTE

CITY ADDRESS: 7101 LOMAS BLVD., N.E. ALBUQ, NM.

ENGINEERING FIRM: HALL ENGINEERING CONTACT: RICHARD HALL

ADDRESS: 6840 N. 2ND ST. N.W. 87107 PHONE: 345-1064

OWNER: JEFF MC COLLUM CONTACT: _____

ADDRESS: _____ PHONE: _____

ARCHITECT: DESIGN COLLABORATIVE CONTACT: MARK SCHIFF

ADDRESS: 105 4TH ST. S.W. 87102 PHONE: 843-3639

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: GEARCON CONTACT: PAULA

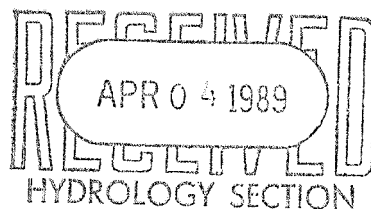
ADDRESS: 630 LOUISIANA BLVD. NE PHONE: 265-8961

PRE-DESIGN MEETING:

_____ YES

_____ NO

_____ COPY OF CONFERENCE RECAP
SHEET PROVIDED



DRB NO. _____

EPC NO. _____

PROJECT NO. _____

TYPE OF SUBMITTAL:

_____ DRAINAGE REPORT

☒ DRAINAGE PLAN

_____ CONCEPTUAL GRADING & DRAINAGE PLAN

_____ GRADING PLAN

_____ EROSION CONTROL PLAN

_____ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

_____ SKETCH PLAT APPROVAL

_____ PRELIMINARY PLAT APPROVAL

_____ SITE DEVELOPMENT PLAN APPROVAL

_____ FINAL PLAT APPROVAL

_____ BUILDING PERMIT APPROVAL

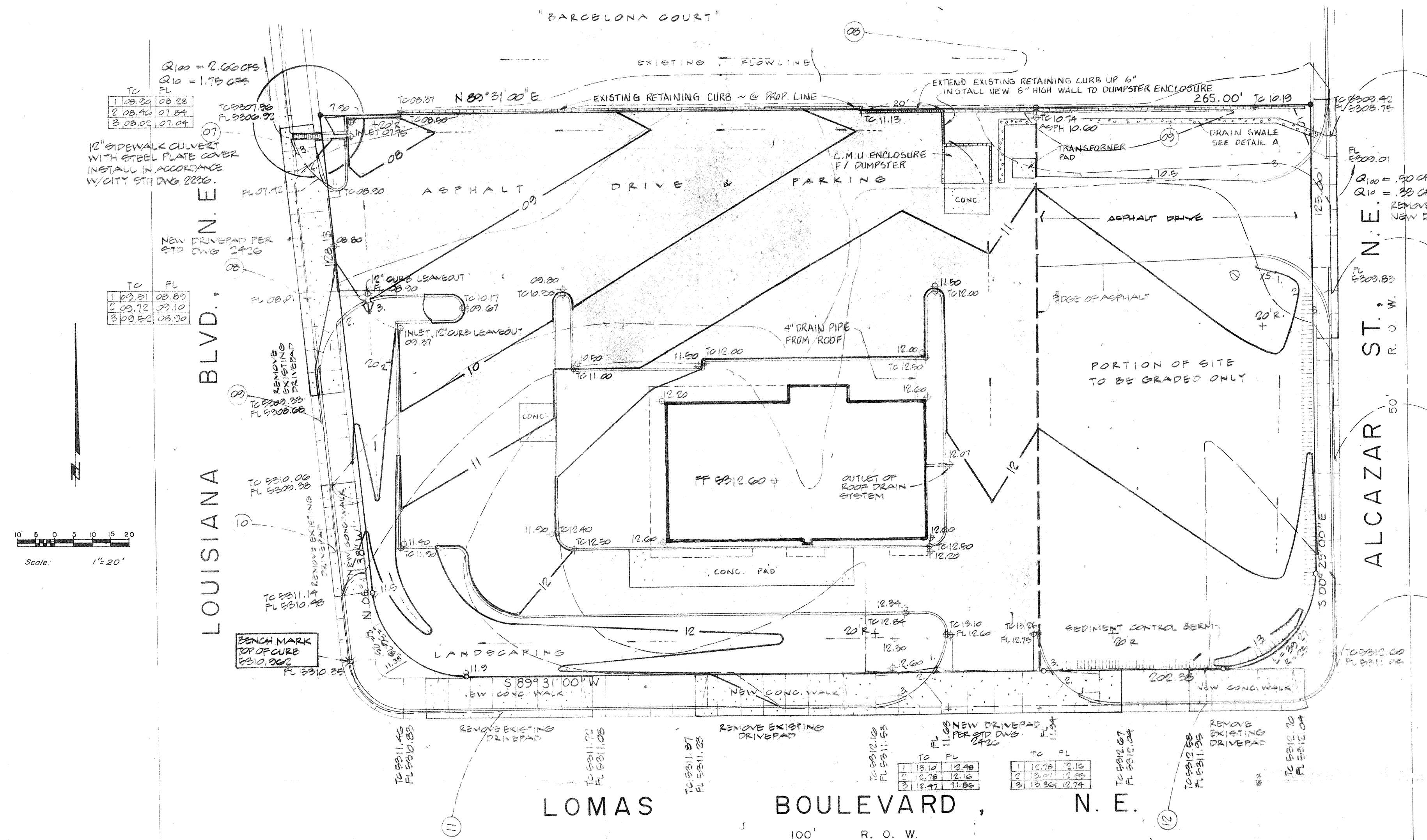
_____ FOUNDATION PERMIT APPROVAL

☒ CERTIFICATE OF OCCUPANCY APPROVAL

_____ ROUGH GRADING PERMIT APPROVAL

_____ GRADING/PAVING PERMIT APPROVAL

GRADING & DRAINAGE PLAN OF BURGER KING RESTAURANT



DATA

AREA 28385 SQ. FT. (.65 AC.)
SLOPE .02%
TIME OF CONCENTRATION 10 MINUTES
100-YR. 2-HR. RAINFALL 2.35 IN.
INTENSITY $(2.35 \text{ IN.} \times .64 \times 10^{.10}) = 4.97 \text{ IN./HR. PEAK}$

EXISTING ON-SITE CONDITIONS

SITE IS OCCUPIED BY TWO BUILDINGS, ASPHALT AND CONCRETE PAVEMENT. NO VEGETATION OR PERMANENT LANDSCAPING IS IN PLACE. WESTERN 120 FEET OF SITE (INCLUDES 1/2 OF ROOF AREA OF EAST BUILDING) DRAINS TO LOUISIANA BOULEVARD. EASTERN REMAINDER OF SITE DRAINS GENERALLY TO ALCARAZ STREET, EXCEPTING ~20% (ABOUT 2000 SQ. FT.) WHICH CONTRIBUTES TO A LOW AREA IN ASPHALT PAVEMENT ALONG AN EXISTING RETAINING WALL ON THE NORTH PROPERTY LINE.

TO LOUISIANA BLVD: .02 AC.

AREA	AREA	C
ROOF	24%	C = .90
PAVEMENT	76%	C = .95
LANDSCAPING	-0-	C = .95

$CMS = (.24 \times .90) + (.76 \times .95) = .94$
 $Q_{100} = .94 \times 4.97 \text{ IN./HR.} \times .65 \text{ AC.} = 2.92 \text{ CFS, PEAK}$
 $Q_{10} = .087 Q_{100} = 1.92 \text{ CFS}$

TO ALCARAZ STREET: .21 AC.

AREA	AREA	C
ROOF	60%	C = .90
PAVEMENT	40%	C = .95
LANDSCAPING	-0-	C = .95

$CMS = (.60 \times .90) + (.40 \times .95) = .92$
 $Q_{100} = .92 \times 4.97 \text{ IN./HR.} \times .21 \text{ AC.} = .96 \text{ CFS, PEAK}$
 $Q_{10} = .087 Q_{100} = .83 \text{ CFS}$

REMAINING .09 ACRE CONTRIBUTES TO ON-SITE DEPRESSION

UPSTREAM CONTRIBUTORY AREAS

NONE. SITE ABUTTING NORTH PROPERTY LINE IS 1.5 LOWER AND IS NON-CONTRIBUTORY. PUBLIC THROUGHFARES ADJOIN ALL OTHER SIDES.

PROPOSED DEVELOPMENT

BOTH EXISTING BUILDINGS SHALL BE REMOVED. EASTERLY 75 FEET OF SITE WILL BE GRADED AS SHOWN BUT OTHERWISE WILL NOT BE DEVELOPED. (.25 ACRE)
SINGLE STORY COMMERCIAL BUILDING, ASPHALT PARKING LOT, CONCRETE WALKS, LANDSCAPE AREAS WILL OCCUPY REMAINDER. (.63 AC)

AREA	AREA	C
ROOF	2%	C = .90
PAVEMENT	78%	C = .95
LANDSCAPING	18%	C = .95

$CMS = (.02 \times .90) + (.78 \times .95) + (.18 \times .95) = .85$

$Q_{100} = .85 \times 4.97 \text{ IN./HR.} \times .63 \text{ AC.} = 2.60 \text{ CFS, PEAK}$
 $Q_{10} = .087 Q_{100} = 1.75 \text{ CFS}$

ROUTED TO LOUISIANA BLVD THROUGH SIDEWALK CULVERT DETAILED ON THIS SHEET.

EAST PORTION OF LOT WILL BE GRADED TO RELEASE THROUGH EXISTING DRIVEPAD TO ALCARAZ ST.

$Q_{100} = .40 \times 4.97 \text{ IN./HR.} \times .25 \text{ AC.} = .50 \text{ CFS, PEAK}$
 $Q_{10} = .087 Q_{100} = .43 \text{ CFS}$

DESCRIPTION OF PROPERTY

LOT 1-A
BLOCK 32
MESA DEL NORTE
ALBUQUERQUE, NEW MEXICO
7101 LOMAS BOULEVARD, NE

BURGER KING

FOR

DESIGN COLLABORATIVE SOUTHWEST

TOP FIELD NOTES BY WAYJOHN SURVEYING
DATED SEPTEMBER 14, 1988

NOVEMBER 1988

2 REVISED DRIVEPAD: 12/13/88 SWK
① REVISED Nov 17, 1988



HALL ENGINEERING COMPANY, INC.
ENGINEERING • SURVEYING • PLANNING • CONSTRUCTION
6840 2ND ST., N.W., SUITE 306 • ALBUQUERQUE, NEW MEXICO 87107
PHONE: (505) 345-1064

CERTIFICATE OF OCCUPANCY

ON MARCH 31, 1989 A SURVEY WAS CONDUCTED FOR THE HEREOF DESCRIBED PROPERTY IT WAS FOUND THAT THE SITE COMPLIED SUBSTANTIALLY TO THE APPROVED DRAINAGE PLAN. THIS DRAWING REPRESENTS AS-BUILT CONSTRUCTION.

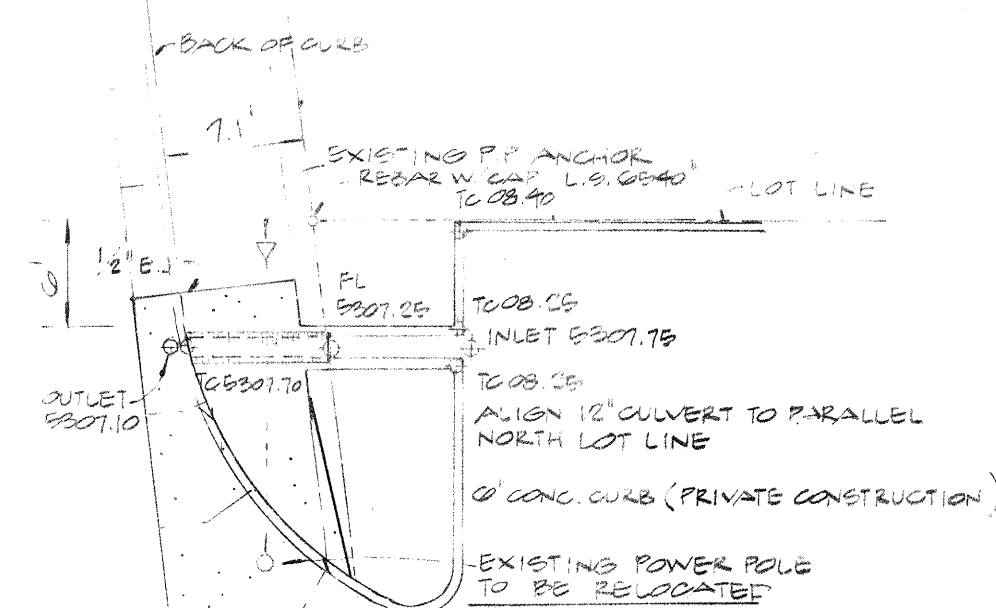
Richard Hall
Professional Engineer
No. 12345
State of New Mexico

FOR 12' CULVERT, 2% SLOPE

$$V = \frac{1.480}{0.58} \times \frac{1.48 \times 1.48}{0.58} \times 0.02 \times 1.48$$

$$= 114.3 \times .95 \times 1.48 = 16.4 \text{ FT. ECU}$$

$$Q_d = .5 \times 16.4 \text{ FT. ECU} = 8.2 \text{ CFS} (> 7.66 \text{ CFS, PEAK})$$

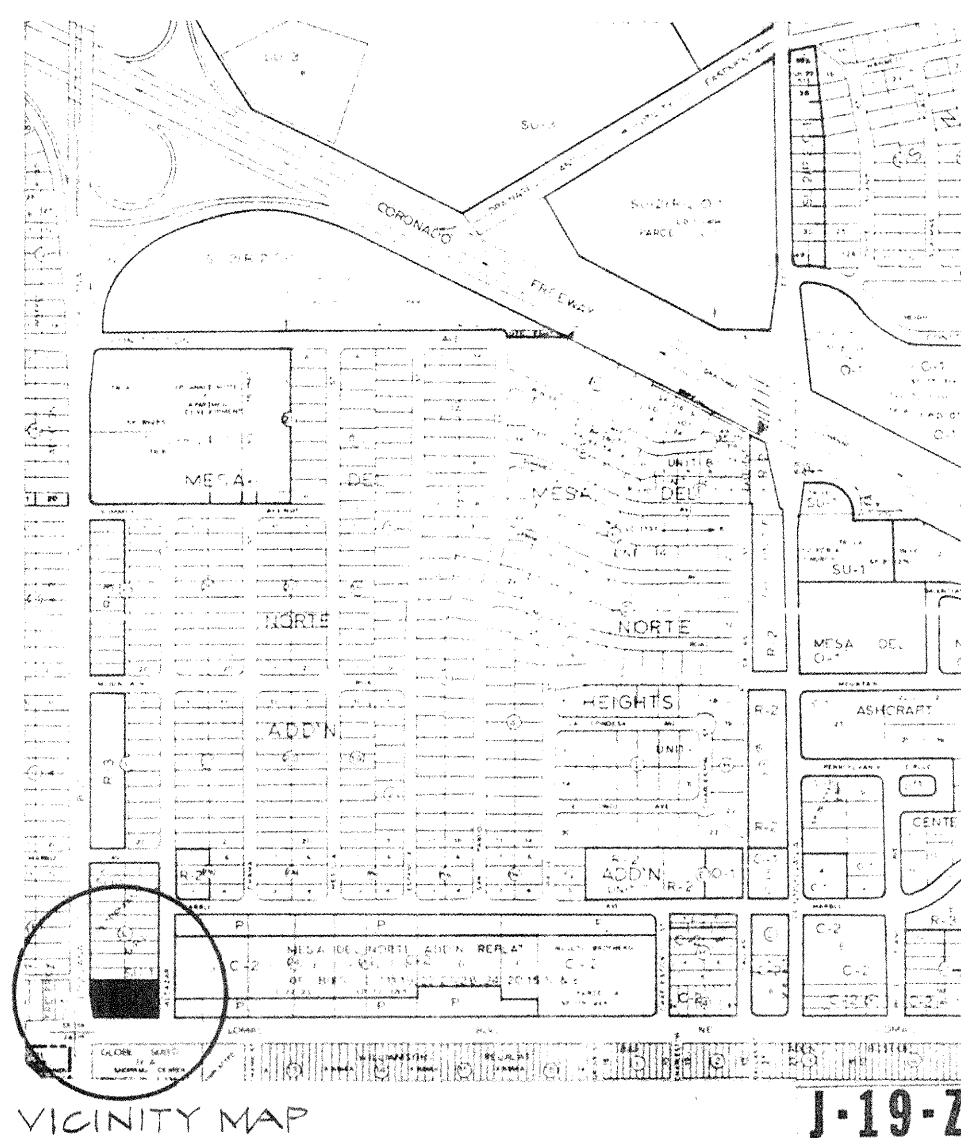


INSTALL 12' SIDEWALK CULVERT IN ACCORDANCE WITH STD DWG. 2230. COORDINATE WITH DRIVEPAD RELOCATION. VERIFY POWER POLE & ANCHOR LOCATIONS. SIDEWALK CULVERT DETAIL 1" = 10'

NOTICE TO CONTRACTOR

1. An excavation/construction permit will be required before beginning any work within City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.
2. All work detailed on these plans to be performed, except as otherwise stated or provided herein, shall be constructed in accordance with "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986".
3. Two working days prior to any excavation, contractor must contact Line Locating Service, 765-1234, for location of any existing utilities.
4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum of delay.
5. Backfill and compaction shall be according to ARTERIAL street use.
6. Maintenance of this facility shall be the responsibility of the owner served.

APPROVALS	NAME	DATE
HYDROLOGY/DESIGN		
INSPECTOR/DESIGN		
CONST/ACPT.		



LEGEND

CONTOUR INTERVAL ONE FOOT (1.0')

⑩ ——— EXISTING CONTOUR

10 ——— PROPOSED CONTOUR

110.0 EXISTING SPOT ELEVATION

TO TOP OF CURB, CONCRETE

FL FLOWLINE

———— FLOWLINE ROUTE

———— EXISTING RETAINER

PROPOSED SPOT ELEVATIONS AND CONTOURS AS SHOWN ARE TO FINISHED SURFACES. CONTRACTOR SHALL DETERMINE APPROPRIATE SUBGRADES.

CONTRACTOR IS RESPONSIBLE FOR ABATEMENT OF SEDIMENT RELEASED ONTO ADJOINING PRIVATE PROPERTY AND PUBLIC STREETS DURING CONSTRUCTION.

SEDIMENT CONTROL BERM GRAVEL

TOP OF BERM SHALL BE ONE-HALF FOOT ABOVE INSIDE GRADE BUT NOT LESS THAN ONE FOOT ABOVE ADJACENT CURB FLOWLINE

BERM SECTION