



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 7, 1993

W. Reed Edgel
Rodriguez & Associates
12800 San Juan NE
Albuquerque, NM 87123

RE: DRAINAGE PLAN FOR BAIRD PLUMBING & MECHANICAL (K20-D41) ENGINEER'S
STAMP DATED 4/28/93.

Dear Mr. Edgel:

Based on the information provided on your April 29, 1993 submittal, the above referenced site is approved for Building Permit.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,


Bernie J. Montoya, CE
Engineer Associate

BJM/d1/WPHYD/7741

xc: Alan Martinez
File

PUBLIC WORKS DEPARTMENT

DRAINAGE INFORMATION SHEET

PROJECT TITLE: BAIRD PLUMBING & MECHANICAL ZONE ATLAS/DRNG. FILE #: K-20/47
 DRB #: _____ EPC #: _____ WORK ORDER #: _____
 LEGAL DESCRIPTION: LOTS 16, 17, & 18, BLK. 1, BUENA VENTURA SUBD.
 CITY ADDRESS: MOON AVE. N.E.
 ENGINEERING FIRM: W. REED EDGEL, P.E. CONTACT: MR. EDGEL
 ADDRESS: 601 VASSAR N.E. CITY 87106 PHONE: 255-2675
 OWNER: BAIRD PLUMBING & MECHANICAL CONTACT: MRS. KIM BAIRD
 ADDRESS: 9900 TRUMBULL S.E. #2, 87123 PHONE: 291-9612
 ARCHITECT: MASTERWORKS ARCHITECTS, INC. CONTACT: MR. JAMES CLARK
 ADDRESS: 516 117th ST. N.W., CITY 87102 PHONE: 242-1866
 SURVEYOR: TORRES SURVEYING Co. CONTACT: MR. JIM TORRES
 ADDRESS: 1570 BRIDGE BLVD. S.W. 87105 PHONE: 291-7085
 CONTRACTOR: ? CONTACT: _____
 ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
☒ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☒ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION
☐ OTHER

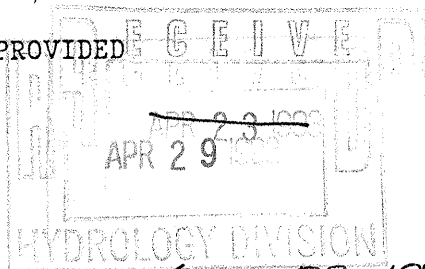
PRE-DESIGN MEETING:

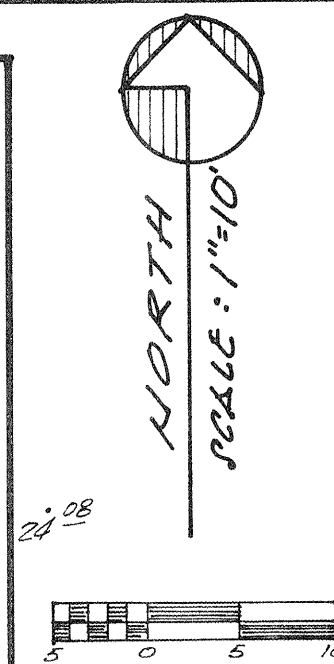
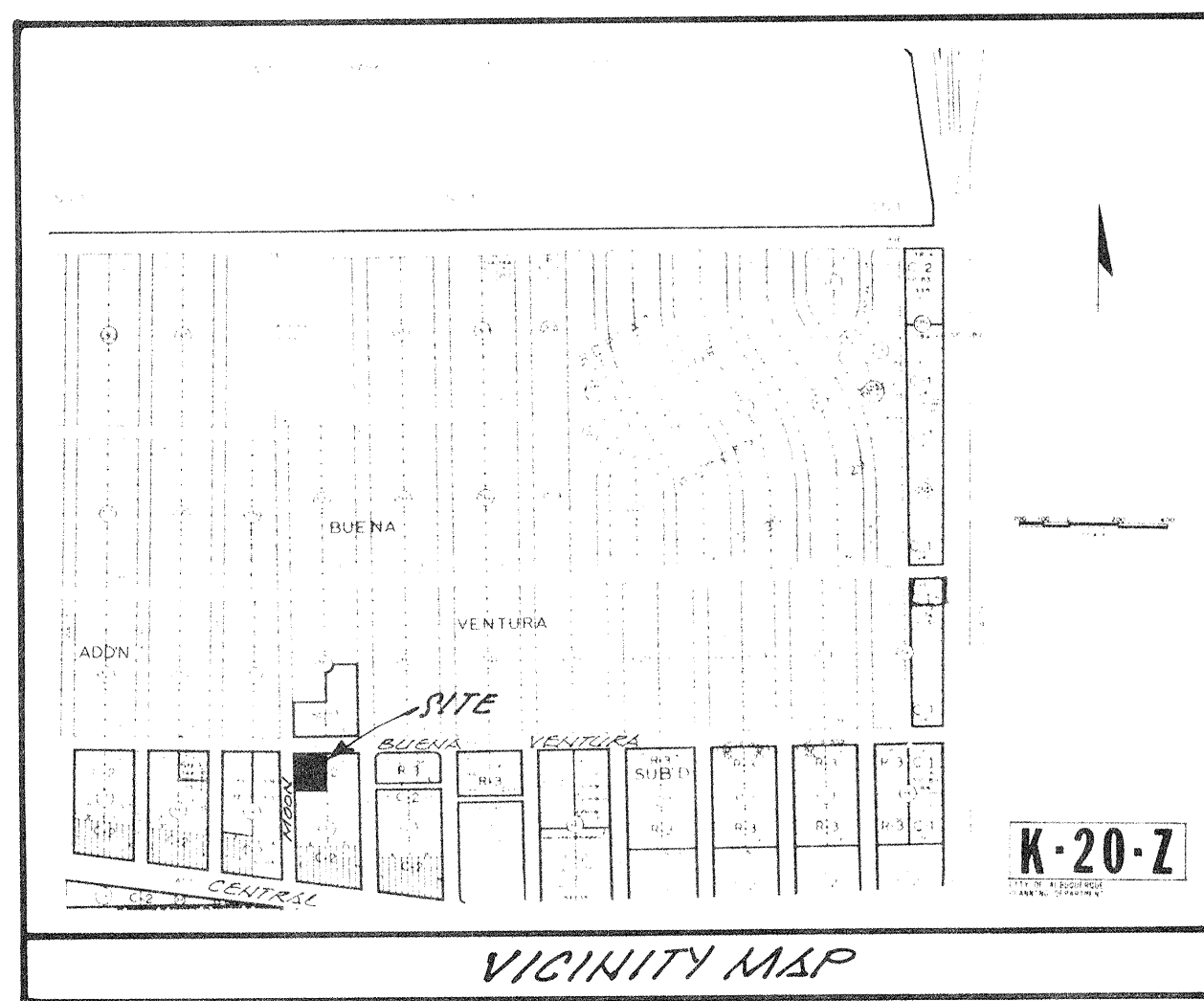
- ☒ YES
☐ NO
☐ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D. APPROVAL
☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☒ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY APPROVAL
☒ GRADING PERMIT APPROVAL
☒ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: APRIL 28, 1993
 BY: W. REED EDGEL, P.E.





N. E.

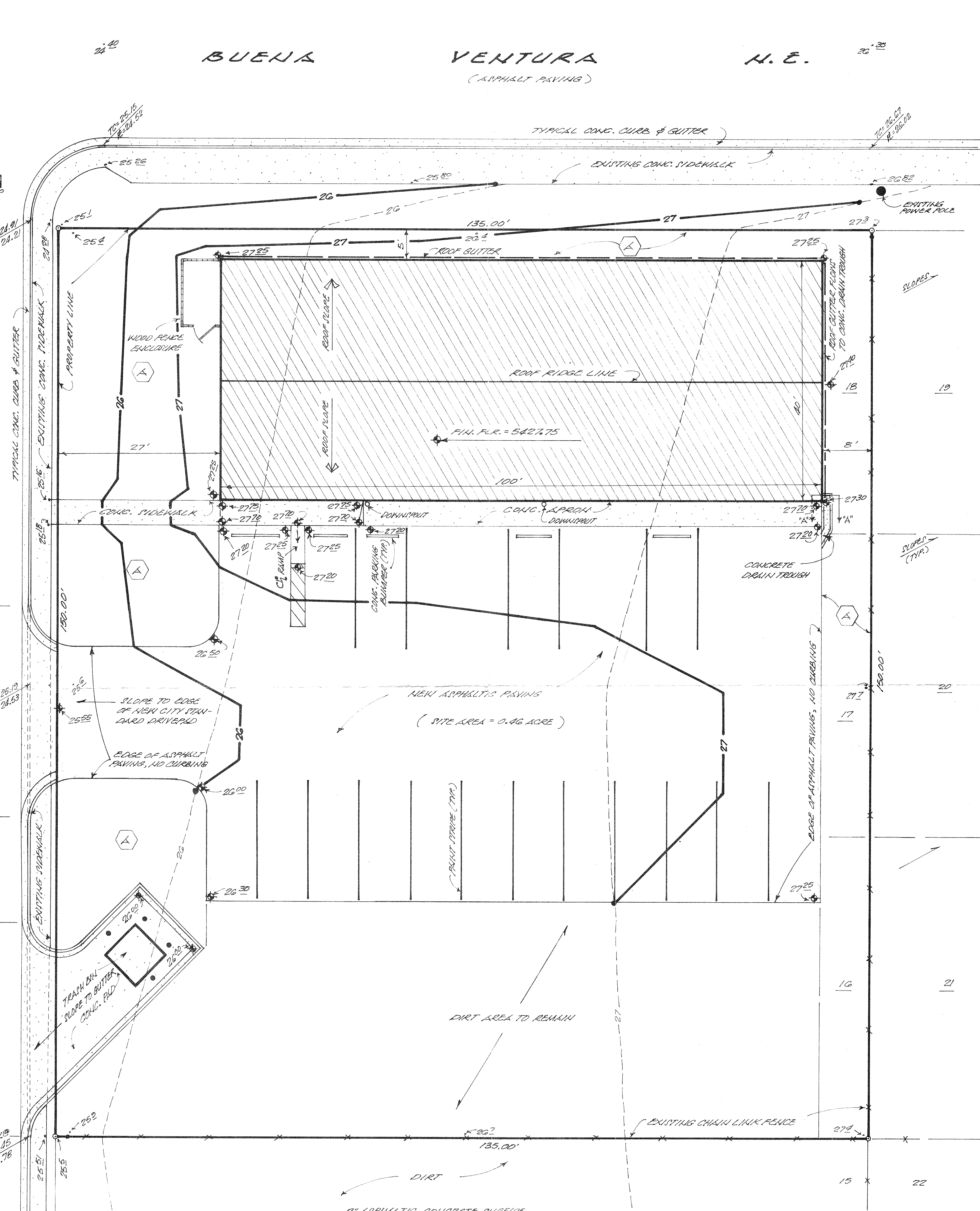
MOON AVENUE

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MOON AVENUE



- A DESIGNATES LANDSCAPE AREA PER ARCHITECT'S SITE PLAN.
- B REMOVE EXISTING SIDEWALK, CURB & GUTTER, & PROVIDE NEW CURB OPENINGS

LEGAL DESCRIPTION:

LOTS 16, 17, AND 18, IN BLOCK 1, OF THE BUENA VENTURA SUBDIVISION, ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.

BENCH MARK REFERENCE:

ACS STATION "5-K20", LOCATED AT THE NORTHEAST INTERSECTION OF CENTRAL AVENUE N.E. AND MOON AVENUE N.E., ALBUQUERQUE, NEW MEXICO; M.S.L.D. ELEVATION = 5427.362; PROJECT BENCH MARK AS SHOWN ON THE PLAN HEREON.

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:

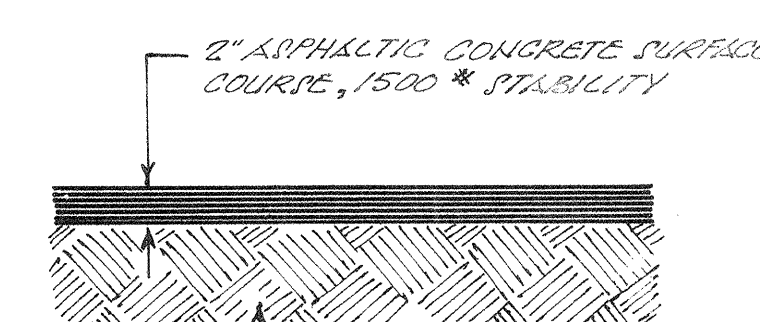
- 1.) ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTIES.
- 2.) ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM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

CONSTRUCTION NOTES:

- 1.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 260-1930 FOR LOCATION OF EXISTING UTILITIES.
- 2.) 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.
- 3.) 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.
- 4.) ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.

NOTICE TO CONTRACTOR:

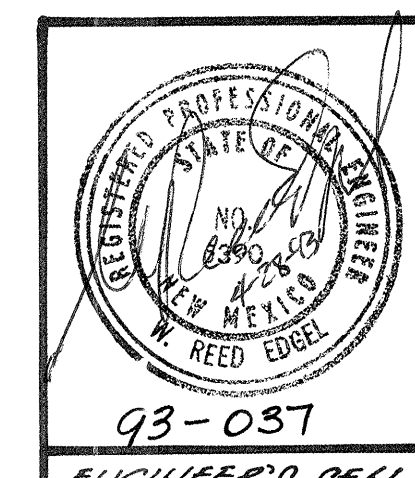
- 1.) AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- 2.) ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH "CONTRACT DOCUMENTS FOR CITY WIDE UTILITIES AND CASH PAVING NO. 31".
- 3.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE (260-1930), FOR LOCATION OF EXISTING OF SURFACE AND SUBSURFACE 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 AMOUNT OF DELAY FOR THE PROJECT.



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

LEGEND:

- TC = 25.19 = TOP OF CURB ELEVATION
- PL = 24.53 = GUTTER FLOWLINE ELEVATION
- 26 --- = EXISTING CONTOUR
- 26 — = PROPOSED CONTOUR
- 26 — = EXISTING/PROPOSED CONCRETE
- 24.5 = EXISTING SPOT ELEVATION
- 24.75 = PROPOSED SPOT ELEVATION



DRAINAGE COMMENTS AND CALCULATIONS FOR PROPOSED IMPROVEMENTS:

THE FOLLOWING ITEMS CONCERNING THE SUBJECT SITE ARE CONTAINED AND SHOWN ON THE PLAN HEREON:

- 1.) LEGAL DESCRIPTION OF THE SUBJECT PROPERTY
- 2.) VICINITY MAP OF THE SUBJECT PROPERTY
- 3.) THE LIMITS AND CHARACTER OF THE EXISTING AND PROPOSED IMPROVEMENTS
- 4.) PROPOSED DRAINAGE PLAN FOR THE IMPROVEMENTS TO BE CONSTRUCTED
- 5.) DRAINAGE CALCULATIONS FOR THE EXISTING AND PROPOSED CONDITIONS

AS SHOWN ON THE VICINITY MAP HEREON, THE SUBJECT SITE IS LOCATED AT THE SOUTHEAST CORNER OF MOON AVENUE N.E. AND VENTURA N.E., IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, (CITY ZONE ATLAS MAP NO. "K-20-Z").

THE SUBJECT PROJECT SITE, 1.) IS NOT LOCATED WITHIN A DESIGNATED FLOODPLAIN, (RE: F.E.M.A. PANEL 30 OF 50), 2.) IS NOT LOCATED ADJACENT TO AN ARTIFICIAL OR NATURAL WATER COURSE, 3.) HAS NO DRAINAGE EASEMENTS AT THE PRESENT TIME, 4.) DOES NOT CONTRIBUTE OFFSITE FLOWS TO ADJACENT PROPERTIES, 5.) DOES NOT ACCEPT OFFSITE FLOWS FROM ADJACENT PROPERTIES, 6.) WILL HAVE DEVELOPED FLOWS FREE DISCHARGED FROM SAID SITE THAT WILL NOT HAVE AN ADVERSE AFFECT TO DOWNSTREAM PROPERTIES.

CALCULATIONS: (RATIONAL METHOD: Q₁₀₀ = CIA)

SITE AREA: 135.0' X 150.0' = 20,250.0 SQ. FT. = 0.46 ACRE

RAINFALL: (R₆, 6 HR.-100 YR.) = 2.5 INCHES

RAINFALL INTENSITY: "I" = 5.28 IN./HR.

TIME OF CONCENTRATION: TEN (10) MINUTES FOR A SITE THIS SIZE

EXISTING CONDITIONS: (VACANT LOT)

Q₁₀₀ = 0.40 X 5.28 X 0.46 = 0.97 CFS

PROPOSED CONDITIONS: (DEVELOPED)

ROOF AREA = 4,000.0 SQ. FT.
PAVED/CONCRETE AREA = 7,750.0 SQ. FT.
LANDSCAPED AREA = 3,950.0 SQ. FT.
UNDEVELOPED AREA = 4,550.0 SQ. FT.

C_c = 4,000.0 X 0.90 = 0.18
20,250.0

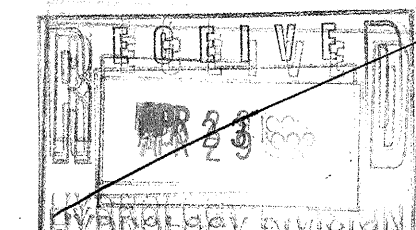
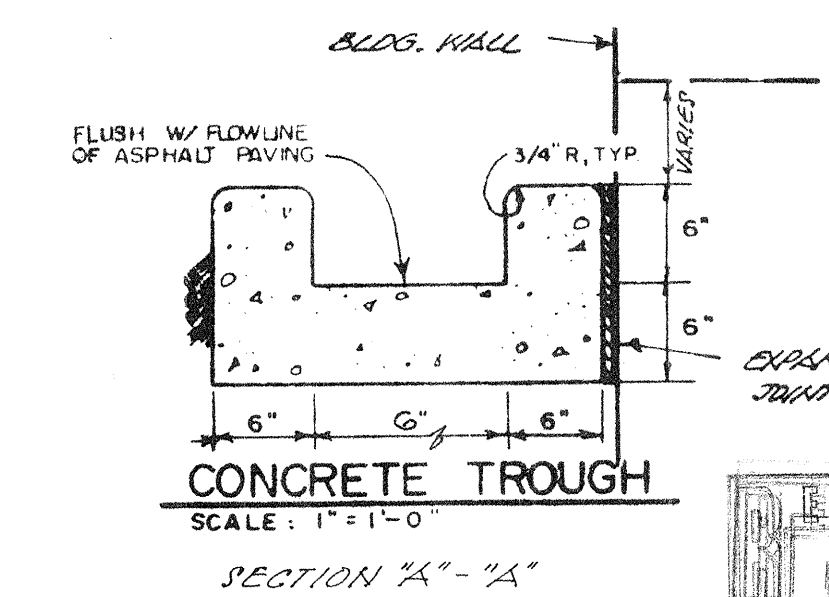
C_p = 7,750.0 X 0.95 = 0.36
20,250.0

C_L = 3,950.0 X 0.25 = 0.05
20,250.0

C_u = 4,550.0 X 0.40 = 0.09
20,250.0

SUM "C" = 0.68 Q₁₀₀ = 0.68 X 5.28 X 0.46 = 1.65 CFS

*** INCREASE = 0.68 CFS



GENERAL NOTES:

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

**A GRADING AND DRAINAGE PLAN
FOR
BAIRD PLUMBING & MECHANICAL
MOON AVENUE N.E.
ALBUQUERQUE, NEW MEXICO
APRIL, 1993**