

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Quality Paper + Plastics ZONE ATLAS/DRNG. FILE #: K-18/058
LEGAL DESCRIPTION: Lot 8A, Evans Addition, Albuquerque, NM
CITY ADDRESS: 5513 Coal SE, Albuquerque
ENGINEERING FIRM: WEISS-HINES ENG. CONTACT: STEVE CLARK
ADDRESS: 1100 ALVARADO NE 87110 PHONE: 266-3444
OWNER: A. Gene Ayala CONTACT: A. Gene Ayala
ADDRESS: 5513 Coal SE, ABQ, 87106 PHONE: 262-1722
ARCHITECT: N/A CONTACT: _____
ADDRESS: _____ PHONE: _____
SURVEYOR: Forstbaver Surveying CONTACT: Ron Forstbaver
ADDRESS: 4520 Robin NE, ABQ 87110 PHONE: 268-6519
CONTRACTOR: N/A CONTACT: _____
ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

☐ YES
☒ NO
☐ COPY OF CONFERENCE RECAP
SHEET PROVIDED

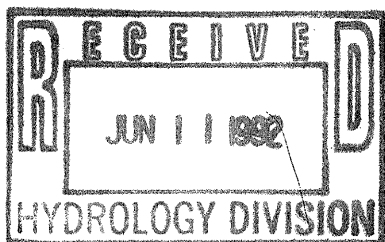
DRB NO. _____
EPC NO. _____
PROJ. NO. _____

TYPE OF SUBMITTAL:

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

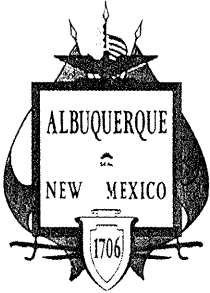
CHECK TYPE OF APPROVAL SOUGHT:

☐ 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
☐ OTHER _____ (SPECIFY)



DATE SUBMITTED: _____

BY: Weiss-Hines Engineering, Inc.



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 17, 1992

Chris Weiss, P.E.
Weiss-Hines Engineering
1100 Alvarado, NE
Albuquerque, New Mexico 87110

RE: DRAINAGE PLAN FOR AN ADDITION TO QUALITY PAPER & PLASTICS
(K-18/D58) ENGINEER'S STAMP DATED JUNE 9, 1992

Dear Mr. Weiss:

Based on the information provided on your submittal of June 11, 1992, the above referenced plan is approved for Building Permit.

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

Also, a separate permit is required for construction within City right-of-way. A copy of this approval letter must be on hand when applying for the excavation permit.

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

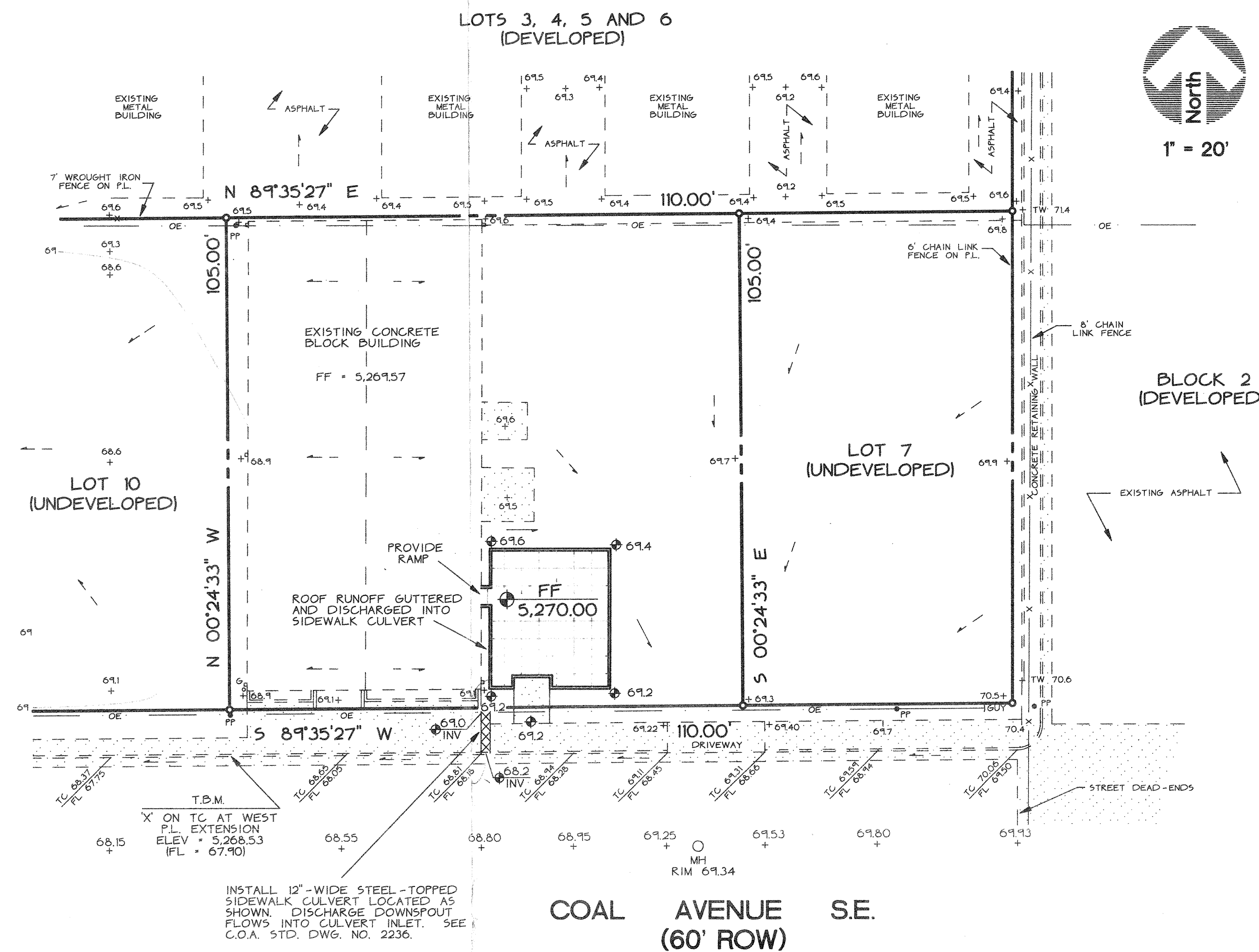
Cordially,

Bernie J. Montoya, C.E.
Engineering Assistant

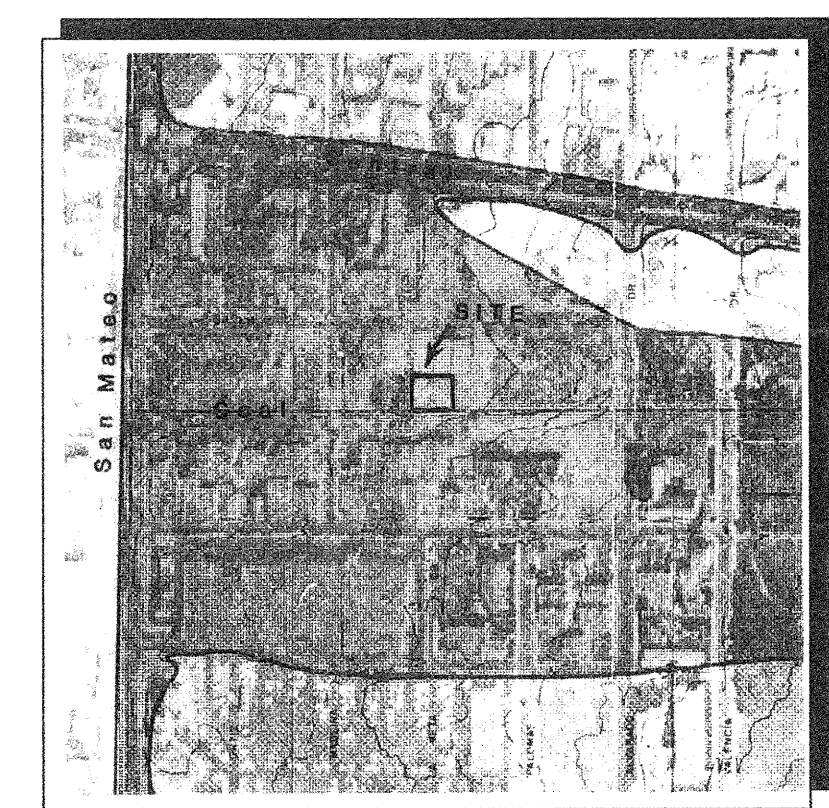
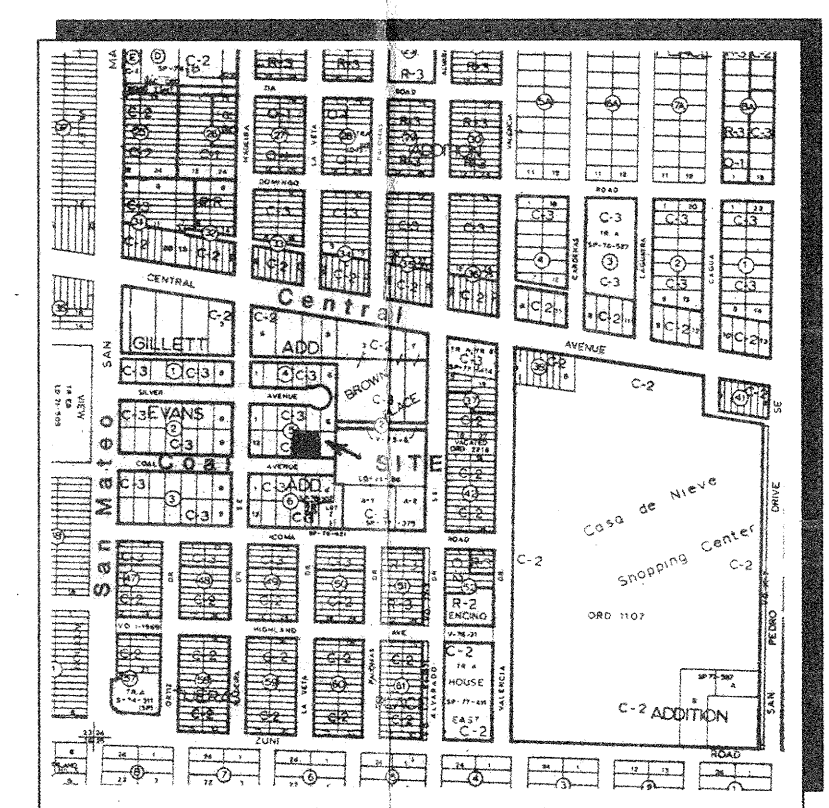
xc: Alan Martinez
Darlene Saavedra

BJM/bsj
(WP+3464)

PUBLIC WORKS DEPARTMENT



- LEGEND**
- SIDEWALK, CURB AND GUTTER (EXISTING, PROPOSED)
 - PROPOSED ASPHALT
 - BUILDING (EXISTING, PROPOSED)
 - PROPERTY LINE
 - EXISTING SPOT ELEVATION
 - EXISTING CONTOUR
 - PROPOSED SPOT ELEVATION
 - PROPOSED CONTOUR
 - SURFACE FLOW DIRECTION (EXISTING, PROPOSED)
 - LANDSCAPED AREA
 - TOP OF RETAINING WALL
 - TOP OF ASPHALT
 - TOP OF CURB
 - FLOW LINE
 - FINISHED FLOOR
 - RIGHT OF WAY
 - PROPERTY LINE
 - POWER POLE



SCOPE:
The proposed improvements include a 780 SF (footprint) slab-on-grade addition to an existing building on-site.

The present site is a developed commercial site with a 5,000 SF concrete block building occupying the west half of the property. The property is nearly level ground sloping slightly south to Coal Avenue S.E.

The intent of this plan is to show:

- Grading relationships between the existing ground elevations and proposed finished elevations in order to facilitate positive drainage to designated discharge points.
- The extent of proposed site improvements, including buildings, walks and pavement.
- The flow rate/volume of rainfall runoff across or around these improvements and methods of handling these flows to meet City requirements for drainage management.
- The relationship of on-site improvements with existing neighboring property to insure an orderly transition between proposed and surrounding grades.

DRAINAGE PLAN CONCEPT:
Even though the site lies within a flood zone, the proposed improvements increase the runoff volume and peak flow rate only slightly (150 CF and 0.1 CFS, respectively), having an insignificant effect on the flood zone. Therefore, surface flows on-site will continue to sheet flow south to Coal Avenue S.E. Runoff from the building addition will be guttered and combined with guttered runoff from the existing building and discharged to a sidewalk culvert into Coal Avenue.

GENERAL NOTES:
LEGAL: Lot 8A (replatted from former Lots 8 and 9), Block 5, Evans Addition, Albuquerque, New Mexico.
SURVEYOR: Forstbauer Surveying, Albuquerque, New Mexico.
B.M.: City of Albuquerque "8-K18", a square chiseled on the top of curb at the WSE return at the intersection of San Mateo Boulevard and Coal Avenue S.E. Elevation = 5,262.15.
I.B.M.: "X" on top of curb at the south extension of the west property line. Elevation = 5,268.53.
SOILS: The SCS Soil Survey of Bernalillo County indicates that the soil is Tijeras (TgB), a gravelly fine sandy loam classified in Hydrologic Soil Group B.
FLOOD HAZARD: Per FEMA Floodway maps, the entire property lies within a flood zone. The building addition finished floor elevation will be set 1 foot above the top of curb elevation in front of the building.
OFF-SITE DRAINAGE: No off-site flows from adjacent properties affect the site.
EROSION CONTROL: The contractor is responsible for containing on-site all sediment generated during construction by means of temporary earth berms or silt fences at low points along the east property line.

CALCULATIONS:
Calculations are based on the Development Process Manual, Sec. 22.2, Volume 2 (January, 1991).

AREA OF SITE:
Area of site = 11,550 SF = 0.27 Ac.

SITE:

Onsite Land Condition:
 $A_A = 0.5F$
 $A_B = 0.5F$
 $A_C = 5,558 SF$
 $A_D = 5,992 SF$
TOTAL = 11,550 SF

Onsite Weighted Excess Precipitation (100-Year, 6-Hour Storm-Precipitation Zone 3):
 $Weighted E = \frac{E_A A_A + E_B A_B + E_C A_C + E_D A_D}{A_A + A_B + A_C + A_D}$
 $= \frac{(0.57)(0) + (0.83)(0) + (1.20)(5,558) + (1.33)(5,992)}{11,550}$
 $= 1.79"$

Onsite Volume of Runoff:
 $V_{360} = (1.79)(11,550) = 1,723 CF$ $V_{Addition} = \frac{(2.33)(780)}{12} = 151 CF$ (9% of total)

Onsite Peak Discharge Rate:
 $Q_P = 0.9 A_A + 0.9 A_B + 0.9 A_C + 0.9 A_D$
 $= (1.64)(0) + (1.24)(0) + (1.29)(5,558) + (1.51)(5,992)$
 $= 43,560$
 $= 1.1 CFS$ $Q_{Addition} = \frac{(5.01)(780)}{43,560} = 0.1 CFS$ (9% of total)

FLOW TO SIDEWALK CULVERT:
 $Q = 1/2 \text{ existing building plus addition} = \frac{(5,000/2 + 780)(1.1)}{43,560} = 0.4 CFS$

SIDEWALK CULVERT FLOW CAPACITY:
 From Manning's Equation for a 12"-wide x 6" deep channel, $n = 0.015$, $s = 0.08' /'$ and $Q = 0.4 CFS$,
 Depth = 0.1' < 0.5' provided. OK.

NOTICE TO CONTRACTOR

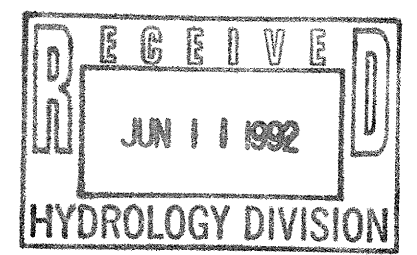
- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- 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 WITHIN A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING EXCAVATION PERMIT FOR SIDEWALK CULVERT/DRAIN.
- PROOF OF ACCEPTANCE WILL BE REQUIRED PRIOR TO SIGN OFF FOR CERTIFICATE OF OCCUPANCY (C.O.).

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY

DESIGN APPROVAL: 7/14/92
HYDROLOGY SECTION DATE

INSPECTION APPROVAL: _____
CONSTRUCTION SECTION DATE

ACCEPTANCE: _____
CONSTRUCTION SECTION/PERMITS DATE



REVISIONS	DATE	BY	CHKD
1. SITE PLAN			
2. CHANGE 12/92			
3. DESIGNED		SC	CW

WEISS-HINES ENGINEERING INC.
100 ALVARADO NE.
ALBUQUERQUE, NEW MEXICO 87110

**QUALITY PAPER AND PLASTICS
DRAINAGE / GRADING PLAN**

