

#### ADDRESS

1416 FIRST STREET NW

#### LEGAL DESCRIPTION

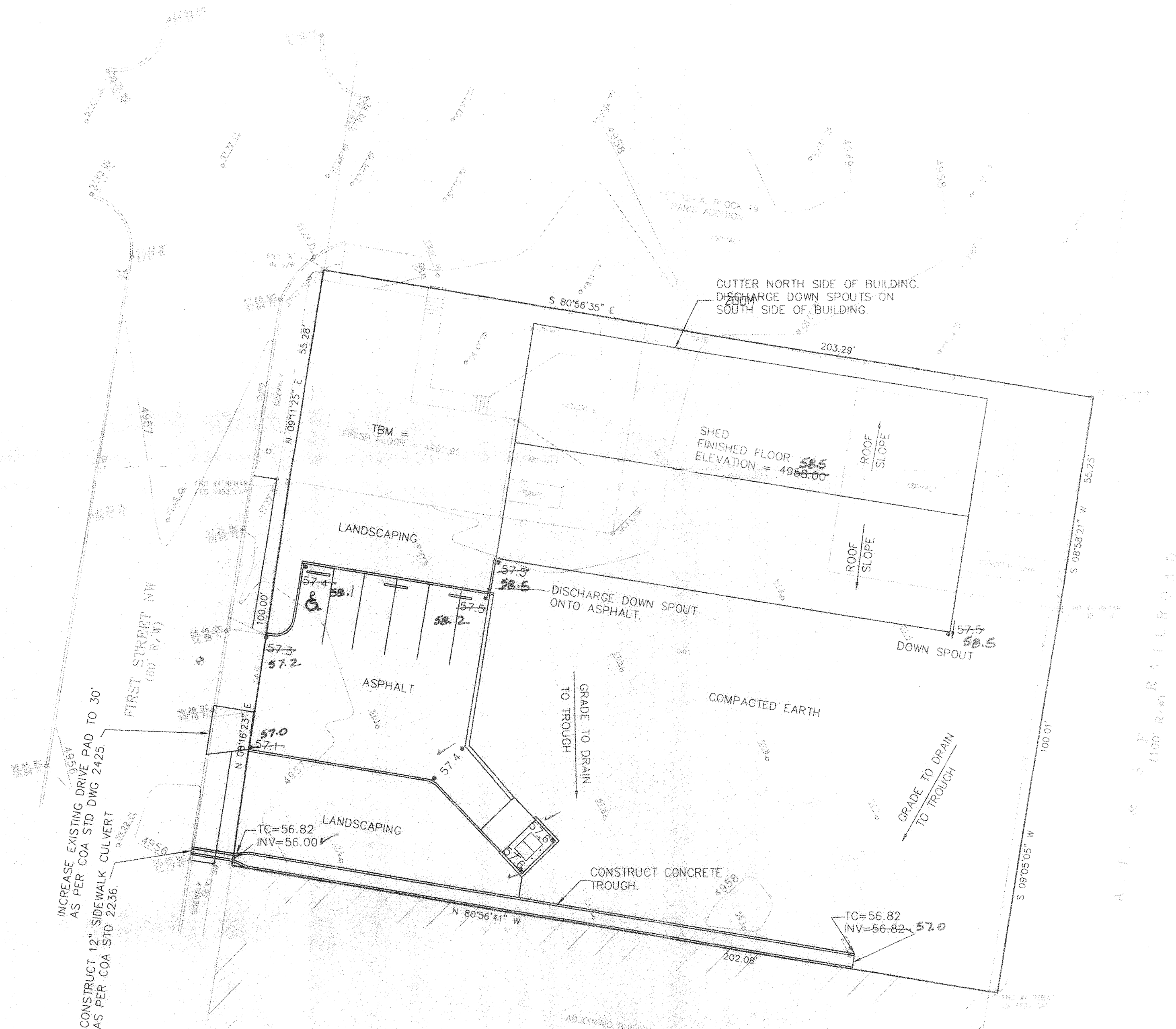
LOTS 1-A, & 3-6, BLOCK 19, PARIS ADDITION

#### BENCHMARK

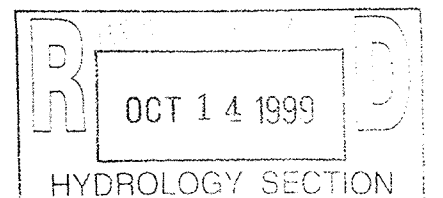
ACS MONUMENT 10-J14A, A CHISLED SQUARE IN THE WSW CURB RETURN AT 4TH STREET AND MOUNTAIN ROAD. ELEVATION = 4956.23.

#### LEGEND

- EXISTING SPOT ELEVATION
- NEW SPOT ELEVATION
- EXISTING CONTOUR
- NEW CONTOUR
- SWALE
- VERIFIED ELEVATION
- AS-BUILT ELEVATION
- BASIN BOUNDARY



## GRADING AND DRAINAGE PLAN FOR KASDORF MANUFACTURING



#### DRAINAGE PLAN

THE FOLLOWING ITEMS CONCERNING THE GRADING AND DRAINAGE PLAN FOR KASDORF MANUFACTURING ARE CONTAINED HEREON:

- VICINITY MAP
- GRADING PLAN
- CALCULATIONS

THE PROPOSED IMPROVEMENTS ARE LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF FIRST STREET NW AND SUMMER AVENUE NW. THE SITE IS CURRENTLY DEVELOPED. THE SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE.

THE SITE IS HIGHER THAN THE STREET TO THE WEST AND THE RAILROAD TRACKS TO THE EAST. AND PARALLEL TO THE LAND TO THE NORTH. A BUILDING COVERS THE LOT TO THE SOUTH THEREFORE, THE OFFSITE FLOWS ARE NEGLIGIBLE. THE SITE SLOPES FROM EAST TO WEST.

THE GRADING PLAN SHOWS 1) EXISTING AND PROPOSED GRADES, INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS, 2) CONTINUITY BETWEEN EXISTING AND PROPOSED ELEVATIONS, 3) THE LIMIT AND CHARACTER OF THE EXISTING IMPROVEMENTS AND THE LIMIT AND CHARACTER OF THE PROPOSED IMPROVEMENTS. THE PROPOSED IMPROVEMENTS CONSIST A STORAGE SHED, A PARKING LOT AND LANDSCAPING. THE SITE WILL BE GRADED TO DRAIN TO A TROUGH ALONG THE SOUTH PROPERTY LINE WHICH WILL CONVEY THE RUNOFF WEST TO FIRST STREET. THE RUNOFF WILL ENTER FIRST STREET THROUGH A SIDEWALK CULVERT.

THE CALCULATIONS, WHICH APPEAR BELOW, ANALYZE THE EXISTING AND PROPOSED CONDITIONS FOR THE 6-HOUR, 100-YEAR RAINFALL EVENT. THE ANALYSIS IS IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, VOLUME II. AS SHOWN BY THESE CALCULATIONS, THE RATE AND VOLUME OF RUNOFF DO NOT INCREASE.

#### CALCULATIONS

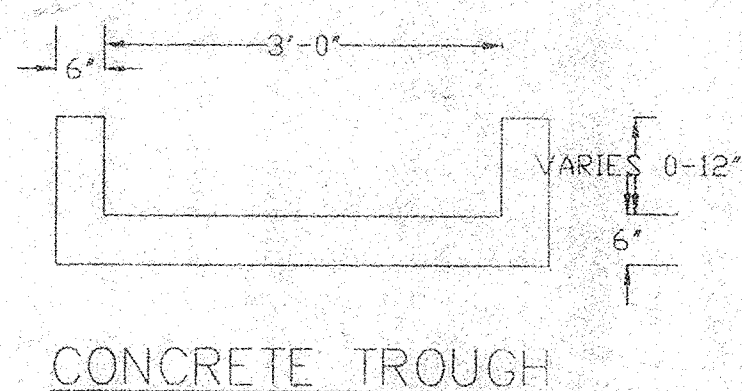
PRECIPITATION ZONE = 2  
AREA = 0.72 ACRES  
EXISTING CONDITIONS  
LAND TREATMENT C=76% D=24%  
E = 1.13\*0.76+2.12\*0.24 = 1.37 INCHES  
V = 1.37\*0.72/12 = 0.08 ACRE FEET  
Q = (3.14\*0.76+4.70\*0.24)0.72 = 2.53 CFS  
DEVELOPED CONDITIONS  
LAND TREATMENT B=10% C=58% D=32%  
E = 0.78\*0.10+1.13\*0.58+2.12\*0.32 = 1.41 INCHES  
V = 1.41\*0.72/12 = 0.08 ACRE FEET  
Q = (2.28\*0.10+3.14\*0.58+4.70\*0.32)0.72 = 2.56 CFS  
INCREASE IN RATE OF RUNOFF = 2.56-2.53 = 0.03 CFS  
INCREASE IN VOLUME OF RUNOFF = 0.08-0.08 = 0.00 ACRE FEET

#### NOTICE TO CONTRACTOR

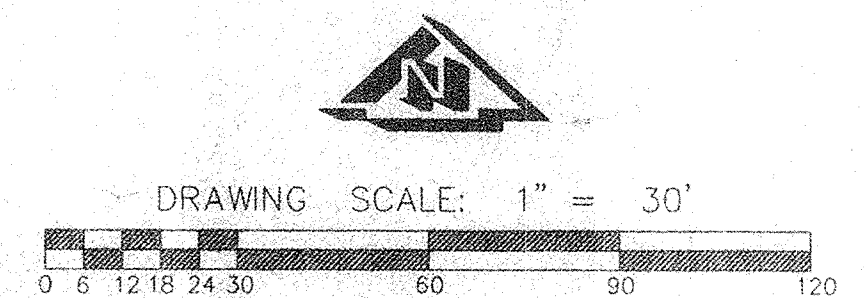
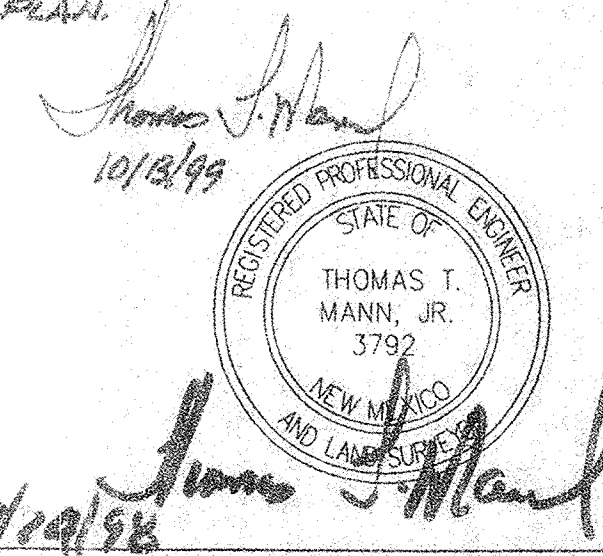
- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

APPROVALS	NAME	DATE
HYDROLOGY		
INSPECTION		

8027gd2.dwg 9/23/98



THIS PROJECT WAS CONSTRUCTED  
IN SUBSTANTIAL COMPLIANCE WITH  
THE APPROVED DRAINAGE PLAN.



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