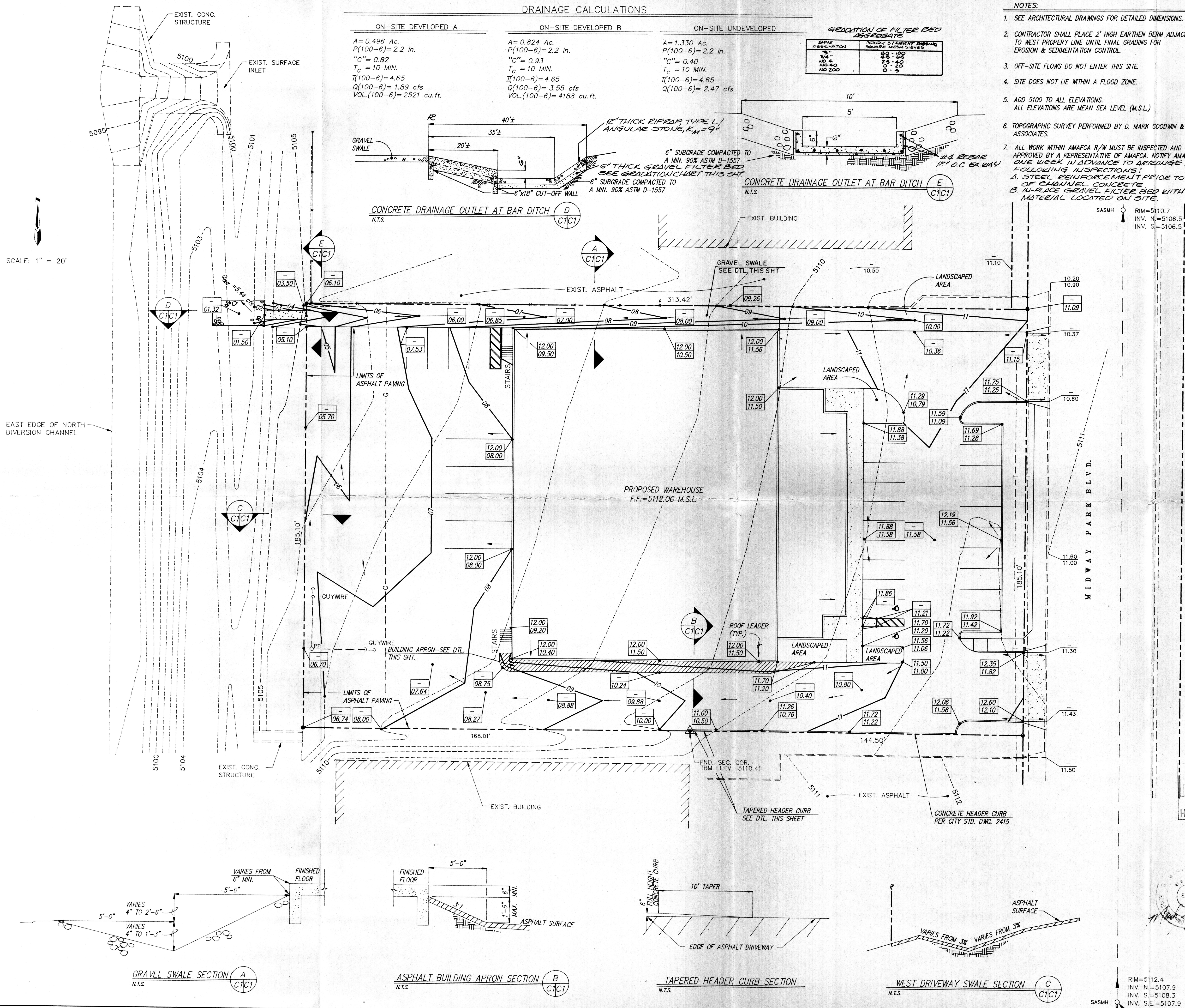
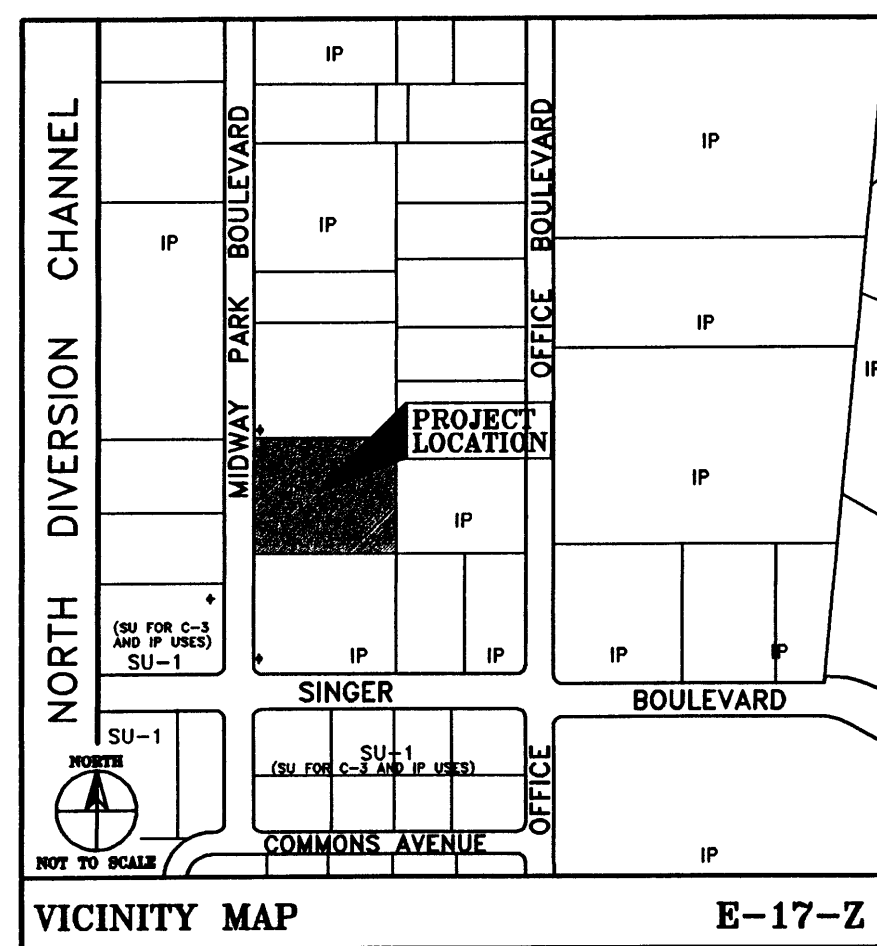


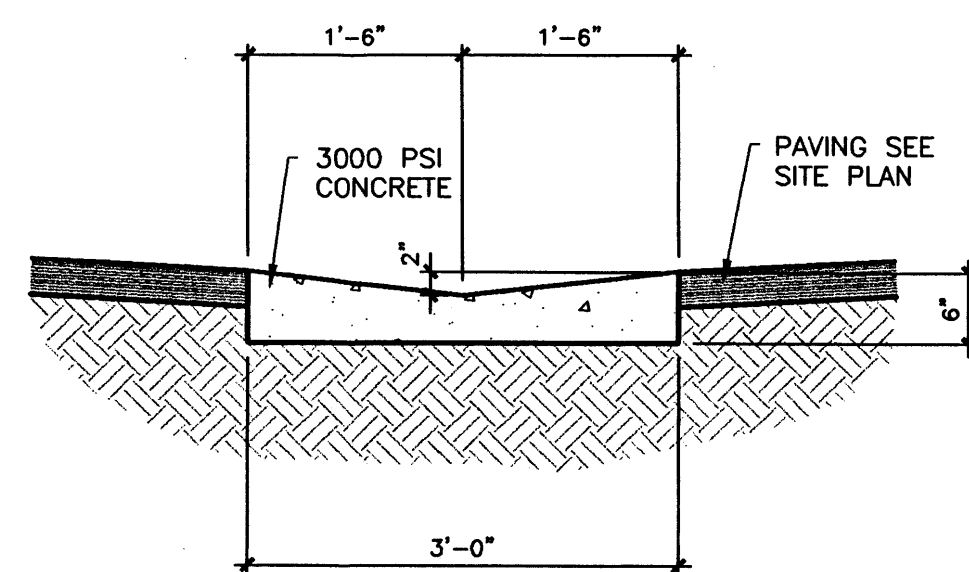




LEGEND:

- 51.0 EXISTING SPOT ELEVATION
- 51.00 NEW SPOT ELEVATION
- 51 EXISTING CONTOUR
- 51 NEW CONTOUR
- SWALE
- 51.0 ✓ VERIFIED ELEVATION
- 51.0 AS BUILT ELEVATION
- BASIN BOUNDARY
- PROPERTY LINE
- FL FLOW LINE
- GND GROUND
- INV INVERT
- TA TOP OF ASPHALT
- TC TOP OF CURB
- TG TOP OF GRATE
- TS TOP OF CONCRETE SLAB
- TW TOP OF WALL
- TBM TEMPORARY BENCH MARK
- NEW ASPHALT PAVING
- NEW CONCRETE

ADDRESS:
5830 MIDWAY PARK BOULEVARD, NE
LEGAL DESCRIPTION:
TRACT 8-B, MIDWAY BUSINESS PARK
BENCH MARK:
KPE BENCHMARK NDC 12-102 LOCATED 700 FT SOUTH OF THE
OSUNA BRIDGE OVER THE A.M.A.F.C.A. NORTH DIVERSION CHANNEL
PUBLISHED ELEVATION = 5095.8 FT.



1 CONCRETE VALLEY

3/4"=1'-0"

GRADING AND DRAINAGE PLAN - TRACT 8-B

DRAINAGE PLAN

THE FOLLOWING ITEMS CONCERNING THE TRACT 8-B, MIDWAY BUSINESS PARK GRADING AND DRAINAGE PLAN ARE CONTAINED HEREON:

1. VICINITY MAP
2. GRADING PLAN
3. CALCULATIONS

THE PROPOSED IMPROVEMENTS, AS SHOWN BY THE VICINITY MAP, ARE LOCATED ON THE EAST SIDE OF MIDWAY PARK BLVD. N.E. THE SITE IS UNDEVELOPED. THE LAND SLOPES FROM SOUTHEAST TO WEST AT AN APPROXIMATE SLOPE OF 2.8%. THE SITE DOES NOT LIE WITHIN A FLOOD HAZARD ZONE.

THE MASTER DRAINAGE PLAN FOR THIS SUBDIVISION WAS PREPARED BY ANDREWS, ASBURY, & ROBERTS INC. (E17/D41 REVISED 7-20-84). PER THE MASTER PLAN RUNOFF IS DISCHARGED TO THE STREET AND COLLECTED BY THE DRAINAGE CHANNEL ON THE NORTH PROPERTY LINE WHICH EXTENDS TO THE A.M.A.F.C.A. NORTH DIVERSION CHANNEL.

THE SITE IS HIGHER THAN THE ROAD TO THE WEST. A CONCRETE DRAINAGE CHANNEL HAS BEEN CONSTRUCTED ALONG THE NORTH PROPERTY LINE AND EARTHEN SWALES HAVE BEEN CONSTRUCTED ALONG THE EAST AND SOUTH PROPERTY LINE, THEREFORE OFF SITE FLOWS ARE NOT CONSIDERED SIGNIFICANT.

THE GRADING PLAN SHOWS:

1. THE 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 EXISTING IMPROVEMENTS, AND
4. THE LIMIT AND CHARACTER OF THE PROPOSED IMPROVEMENTS.

THE PROPOSED IMPROVEMENTS CONSIST OF A WAREHOUSE / OFFICE ADDITION WITH ASSOCIATED PARKING AND LANDSCAPING. THE RUNOFF CURRENTLY IS DISCHARGED TO MIDWAY PARK BOULEVARD AT THE EXISTING DRIVE ENTRANCES. THE PROPOSED IMPROVEMENTS WILL CONTINUE TO DISCHARGE THE RUNOFF AT THE EXISTING DRIVE ENTRANCES.

THE CALCULATIONS 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 WILL INCREASE. HOWEVER THE PROPOSED RATE IS LESS THAN THE RATES INDICATED ON THE MASTER DRAINAGE PLAN FOR THIS SUBDIVISION.

CALCULATIONS

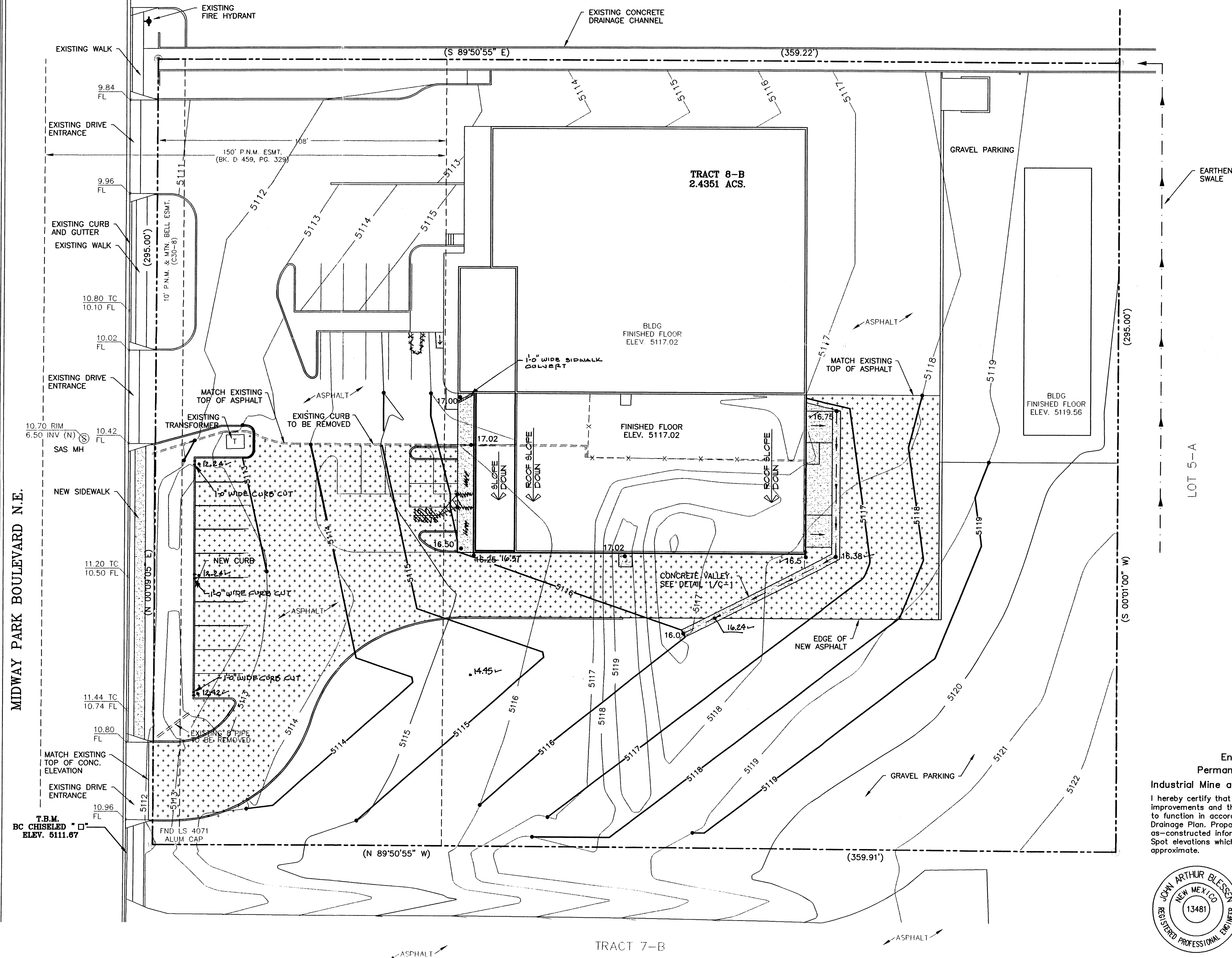
PRECIPITATION ZONE = 2
TOTAL SITE AREA = 2.4351 ACRES

EXISTING CONDITIONS

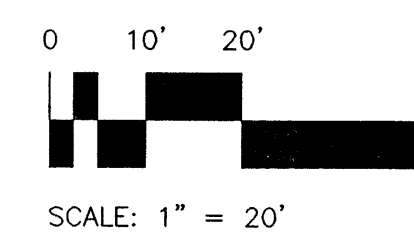
LAND TREATMENT B=4% C=53% D=43%
E = 0.78(0.04)+1.13(0.53)+2.12(0.43) = 1.54 INCHES
V = 1.54 (2.4351) / 12 = 0.312 ACRE FEET
Q = [2.28 (0.04)+3.14 (0.53)+4.70(0.43)] (2.4351) = 9.18 CFS

DEVELOPED CONDITIONS

LAND TREATMENT B=5% C=34% D=61%
E = 0.78(0.05)+1.13(0.34)+2.12(0.61) = 1.71 INCHES
V = 1.71 (2.4351) / 12 = 0.348 ACRE FEET
Q = [2.28 (0.05)+3.14 (0.34)+4.70(0.61)] (2.4351) = 9.85 CFS
INCREASE IN VOLUME OF RUNOFF = 0.348 - 0.312 = 0.036 ACRE FT
INCREASE IN RATE OF RUNOFF = 9.85 - 9.18 = 0.67 CFS



RECEIVED
8/25/00



GRADING AND DRAINAGE PLAN

JANUARY 27, 2000



CLAUDIO VIGIL ARCHITECTS

INDUSTRIAL AND MINE SUPPLY COMPANY
PHASE III BUILDING ADDITION
5830 MIDWAY PARK BOULEVARD, N.E.
ALBUQUERQUE, NEW MEXICO

Engineer's Certification for
Permanent Certificate of Occupancy
Industrial Mine and Supply Company Phase III Addition
I hereby certify that I have inspected the site grading and drainage improvements and that they have been constructed and are expected to function in accordance with the intent of the approved Grading and Drainage Plan. Proposed contours have not been revised to reflect the as-constructed information and should be considered approximate. Spot elevations which have not been revised should be considered approximate.



J. Arthur Blessen, PE
NM PE# 13481
date 8-24-00



1305 Tijeras NW Albuquerque, NM 87102-2882
Phone: 505/842-1113 Fax: 505/842-1330

SHEET

C-1