

Calculations

Site Characteristics

- Precipitation Zone = 2
- P360 = 2.35 in.
- Total Area = 0.4454ac.; 19,400sqft
- Existing Conditions

Land Treatment 19,400/0.44 100.00
Area (ft²/ac) %
B 970/0.02 5.0
D 18,430/0.42 95.0

5. Developed Conditions

Land Treatment 19,400/0.44 100.00
Area (ft²/ac) %
B 1,970/0.04 10.15
D 17,430/0.40 89.85

6. Existing Conditions Calculations

Onsite Basin
a. Volume
EW = [(EA*AA+EB*AB+EC*AC+ED*AD)]/(AT)
EW = [(0.78*0.02)+(2.12*0.42)]/(0.44) = 2.05 in.

V100 = (EW/12)*AT
V100 = 2.05/12*0.44 = 0.08 ac.ft. = 3,290 ft³

b. Runoff
Q100 = QPA*AA+QPB*AB+QPC*AC+QPD*AD
Q100 = 2.28*0.02+4.7*0.42 = 2.02 cfs

7. Developed Conditions Calculations

Onsite Basin
a. Volume
EW = [(EA*AA+EB*AB+EC*AC+ED*AD)]/(AT)
EW = [(0.78*0.04)+(2.12*0.40)]/(0.44) = 1.99 in.

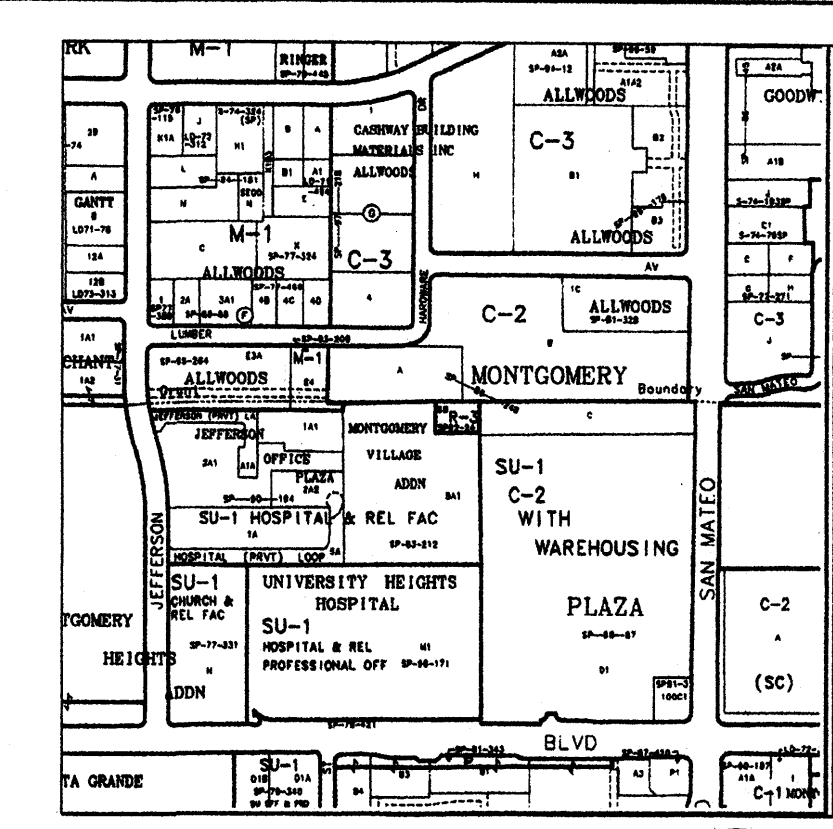
V100 = (EW/12)*AT
V100 = 1.99/12*0.44 = 0.07 ac.ft. = 3,190 ft³

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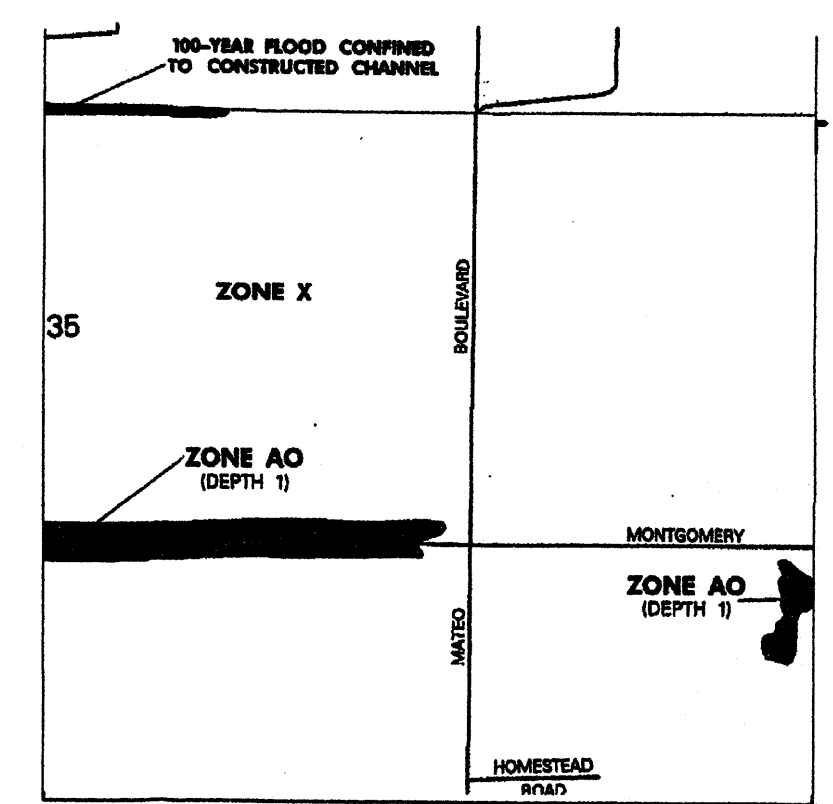
8. Comparison

a. Change in Volume for 100 year, 6 hour storm
ΔV = 3,290 - 3,190 = 100 cf (decrease)

b. Change in 100 year, 6 hour Runoff Rate
ΔQ = 2.02 - 1.97 = 0.05 cfs (decrease)



VICINITY MAP
F-17
N.T.S.



F.I.R.M.
PANEL 139 OF 825
N.T.S.

DRAINAGE PLAN

EXECUTIVE SUMMARY
THIS PROJECT, LOCATED ON THE NORTH WEST CORNER OF SAN MATEO BOULEVARD NE AND MONTGOMERY BOULEVARD NE, CONSISTS OF IMPROVEMENTS TO AN EXISTING CHEVRON GAS STATION.

INTRODUCTION
A DRAINAGE INFORMATION SHEET IS INCLUDED WITH THIS SUBMITTAL. NO INFRASTRUCTURE IS ANTICIPATED, HENCE AN INFRASTRUCTURE LIST IS NOT INCLUDED WITH THIS SUBMITTAL. FURTHERMORE, NO PLATTING IS PROPOSED.

PROJECT DESCRIPTION
AS SHOWN BY VICINITY MAP F-17-Z, THE SITE IS LOCATED ON THE NORTHWEST CORNER OF MONTGOMERY AND SAN MATEO. THE SITE IS CURRENTLY ZONED SU-1, C-2 WITH WAREHOUSING. THE CURRENT LEGAL DESCRIPTION IS: TRACT 100-C-1 OF THE REPLAT OF 100-C, MONTGOMERY HEIGHTS, ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, FILED ON JANUARY 30, 1991, VOLUME 91C, FOLIO 32.

EXISTING CONDITIONS
THE SITE CONSISTS OF ONE MAJOR BASIN WHICH SLOPES NORTHEAST TO SOUTHWEST DISCHARGING INTO MONTGOMERY BOULEVARD VIA SHEET FLOW.

DEVELOPED CONDITIONS
AS DESCRIBED ABOVE, THE PROPOSED IMPROVEMENTS CONSIST OF REPLACING THE EXISTING CHEVRON GAS STATION WITH A MODERNIZED CHEVRON GAS STATION AND CONVENIENCE STORE. THESE IMPROVEMENTS INCLUDE A NEW BUILDING, NEW FUELING STATIONS COVERED BY A NEW CANOPY, NEW FUEL STORAGE TANKS AS WELL AS NEW LANDSCAPED AREAS.

THE GRADING PLAN SHOWS: 1) EXISTING GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1' INTERVALS AS TAKEN FROM THE TOPOGRAPHIC SURVEY PREPARED BY HARRIS SURVEYING JULY 15, 2004, 2) PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1' INTERVALS, 3) THE LIMIT AND CHARACTER OF THE EXISTING IMPROVEMENTS, 4) THE LIMIT AND CHARACTER OF THE PROPOSED IMPROVEMENTS, AND 5) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES. THIS PLAN ILLUSTRATES THE DRAINAGE PATTERNS AND PROPOSED GRADES AS DESCRIBED IN THE ABOVE SECTION.

CALCULATIONS
THE CALCULATIONS WHICH APPEAR HEREON ANALYZE BOTH THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100YEAR, 6-HOUR RAINFALL EVENT. THE PROCEDURE FOR 40-ACRE AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY, 1993, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED. AS DEMONSTRATED BY THESE CALCULATIONS, THERE WILL BE A SLIGHT DECREASE IN RUNOFF ASSOCIATED WITH THE PROPOSED IMPROVEMENTS. THE DISCHARGE FROM THE SITE WILL BE ALLOWED TO FREELY DISCHARGE TO THE EXISTING IMPROVEMENTS WITHIN MONTGOMERY BOULEVARD INCLUDING A DOWNSTREAM STORM DRAIN SYSTEM.

CONCLUSION
THIS SITE LIES WITHIN A TOTALLY DEVELOPED INFILL AREA. THE PROPOSED IMPROVEMENTS, INCLUDING AN INCREASE IN LANDSCAPED AREAS, RESULT IN A DECREASE IN DEVELOPED RUNOFF EXISTING THE SITE. DUE TO THE PROXIMITY TO DOWNSTREAM FACILITIES WITH PROGRAMMED DOWNSTREAM CAPACITY, THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY EFFECT DOWNSTREAM IMPROVEMENTS. INSTEAD, THEY SHOULD IMPROVE THEM DUE TO THE AFOREMENTIONED DECREASE IN DEVELOPED RUNOFF.

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Designing to Shape the Future

GENERAL NOTES:

- See sheet CG.0 for complete list of general notes and symbol/linetype legend that apply to all sheets.
- Surface features associated with underground utilities are shown on paving plans for clarity. See applicable utility plans for construction notes and details.
- Contractor shall field verify site for existing conditions (spoils, borrow areas, etc.) prior to bidding earthwork quantities

LEGEND:

DIRECTION OF FLOW	→
EXISTING EDGE OF CONCRETE ELEV.	EC=99.00
EXISTING BACK OF CURB ELEVATION	BOC=25.00
PROPOSED FLOWLINE ELEV.	FL=25.00
PROPOSED TOP OF CURB ELEV.	TC=25.00
PROPOSED TOP OF ASPHALT ELEV.	TA=25.00
PROPOSED TOP OF SIDEWALK ELEV.	TSW=25.00
PROPOSED TOP OF CONCRETE ELEV.	TCO=25.00

LEGAL DESCRIPTION:
TRACT NUMBERED ONE-HUNDRED AND ONE (100-C-1) OF THE REPLAT OF 100-C, MONTGOMERY HEIGHTS, ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT THEREOF, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON JANUARY 30, 1991 IN VOLUME 91C, FOLIO 32.

REV.	DESCRIPTION	DATE

ENGINEER _____

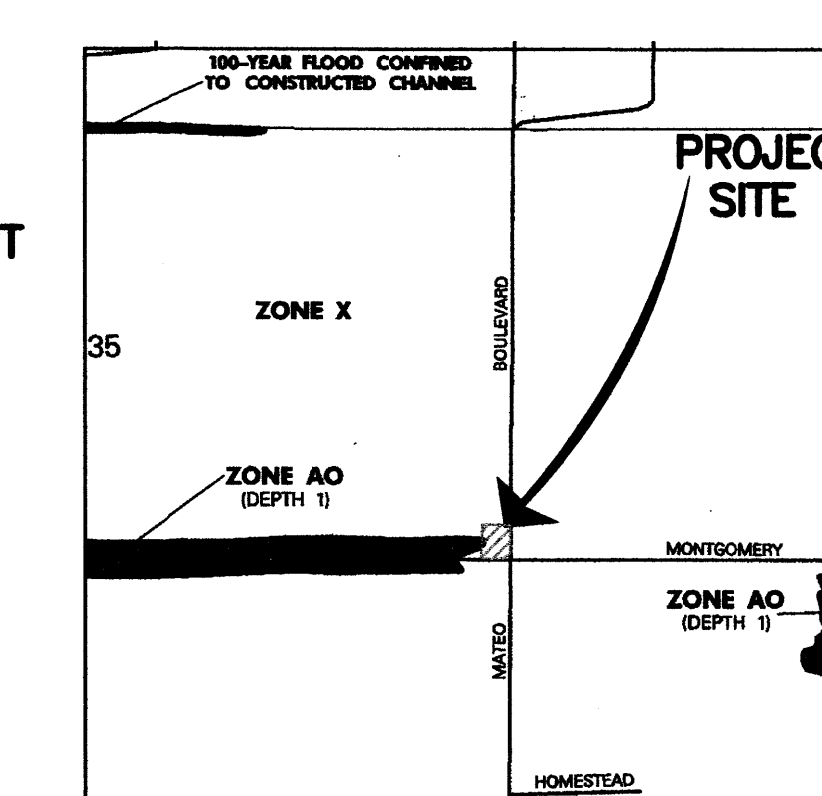
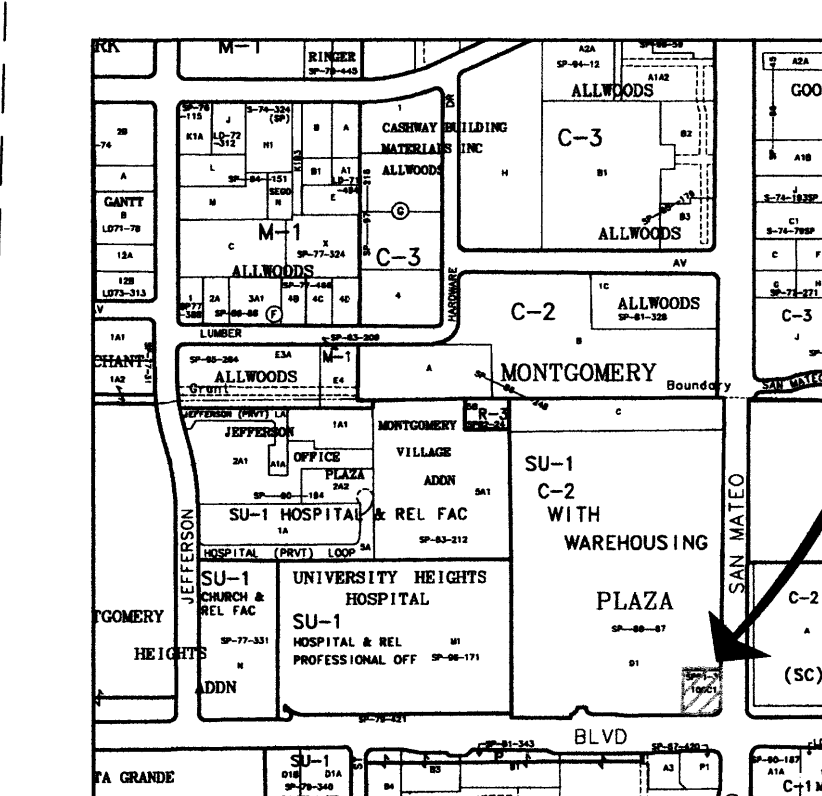
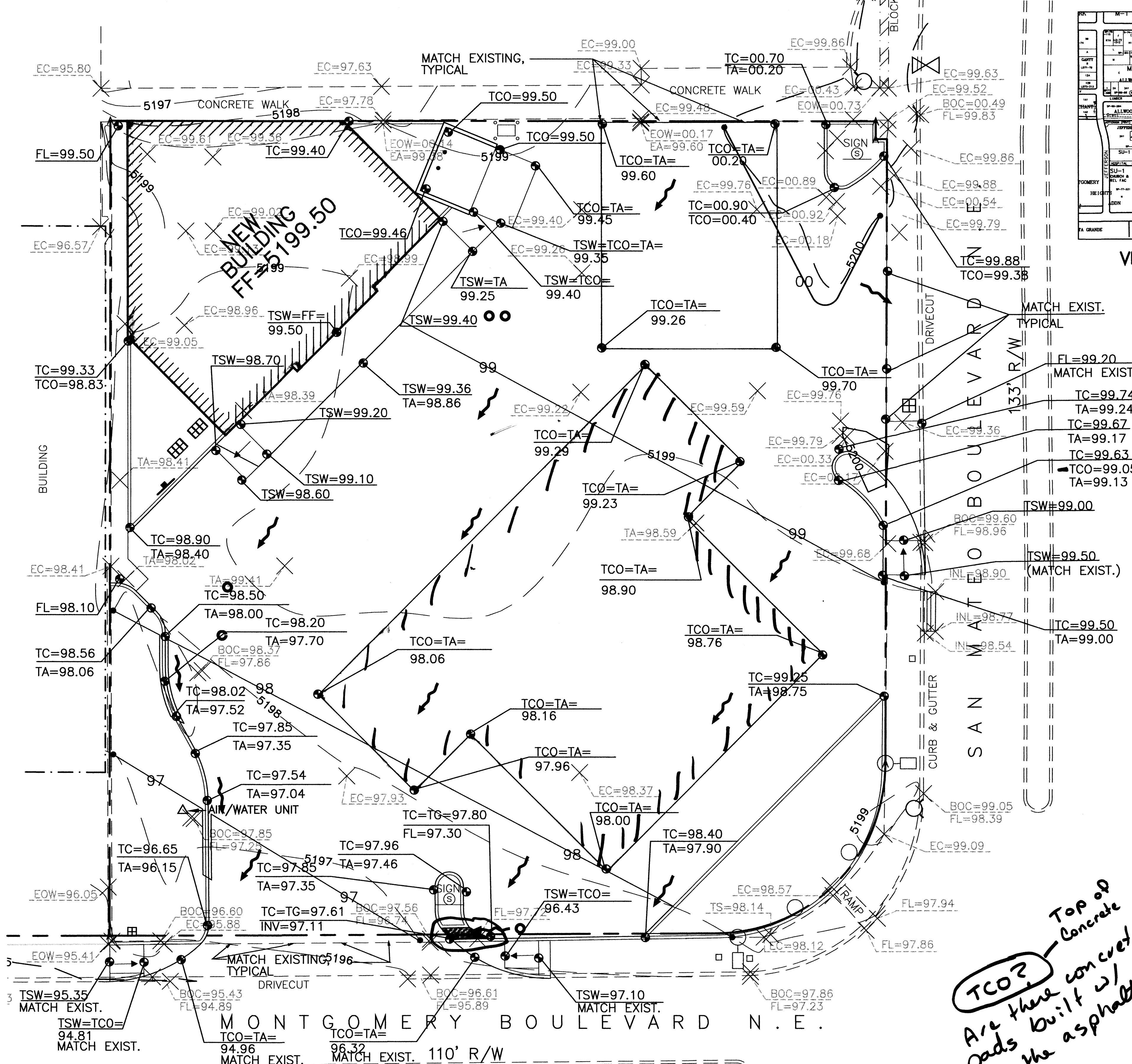
ARCHITECT _____

CHEVRON SERVICE STATION
4401 SAN MATEO NE
ALBUQUERQUE, NM

PROJECT NO. A04019 DATE SEPT. 14, 2004

GRADING & DRAINAGE PLAN

DRAWING NO. **C2.0**



DRAINAGE PLAN

EXECUTIVE SUMMARY
THIS PROJECT, LOCATED ON THE NORTH WEST CORNER OF SAN MATEO BOULEVARD NE AND MONTGOMERY BOULEVARD NE, CONSISTS OF IMPROVEMENTS TO AN EXISTING CHEVRON GAS STATION.

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*Top of Concrete
Are these concrete
pads built w/
the asphalt?*

Calculations Site Characteristics 1. Precipitation Zone = 2 2. P360 = 2.35 in. 3. Total Area = 0.4454ac.; 19,400sf 4. Existing Conditions Land Treatment 19,400/0.44 100.00 Area (ft2/ac) % B 1,970/0.04 10.15 D 17,430/0.40 89.85	5. Developed Conditions Land Treatment 19,400/0.44 100.00 Area (ft2/ac) % B 1,970/0.04 10.15 D 17,430/0.40 89.85 6. Existing Conditions Calculations Onsite Basin a. Volume $EW = [(EA*AA+EB*AB+EC*AC+ED*AD)]/(AT)$ $EW = [(0.78*0.02)+(2.12*0.40)]/(0.44) = 2.05$ in. $V100 = (EW/12)*AT$ $V100 = 2.05/12*0.44 = 0.08$ ac.ft. = 3,290 ft3
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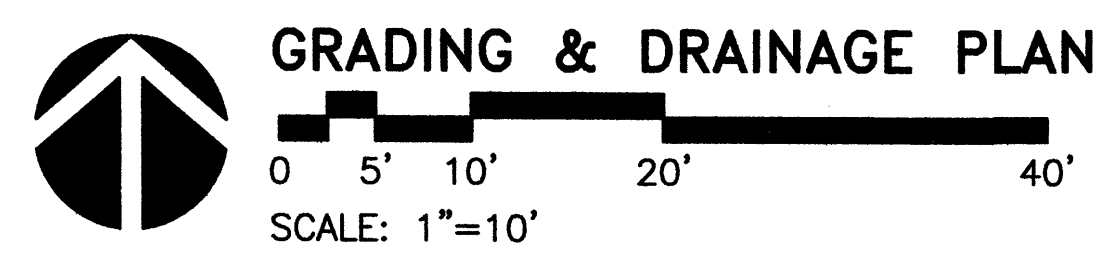
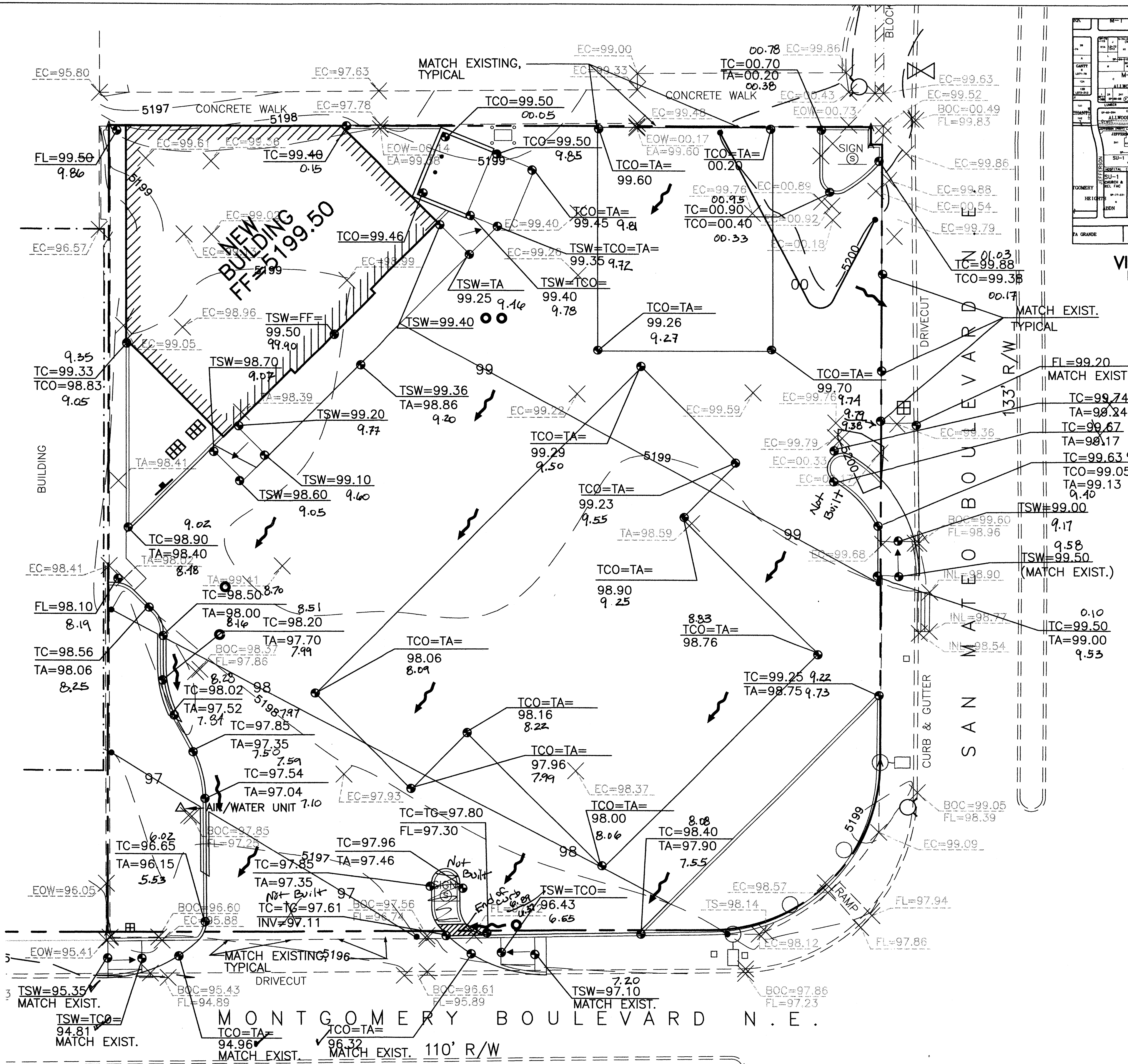
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Designing to Shape the Future

GENERAL NOTES:
 A. See sheet CG.0 for complete list of general notes and symbol/linetype legend that apply to all sheets.
 B. Surface features associated with underground utilities are shown on paving plans for clarity. See applicable utility plans for construction notes and details.
 C. Contractor shall field verify site for existing conditions (spoils, borrow areas, etc.) prior to bidding earthwork quantities

LEGEND:
 DIRECTION OF FLOW
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CHEVRON SERVICE STATION
 4401 SAN MATEO NE
 ALBUQUERQUE, NM
 PROJECT NO. A04019
 DATE SEPT. 14, 2004
 GRADING & DRAINAGE PLAN
 DRAWING NO. C2.0



Calculations

Site Characteristics

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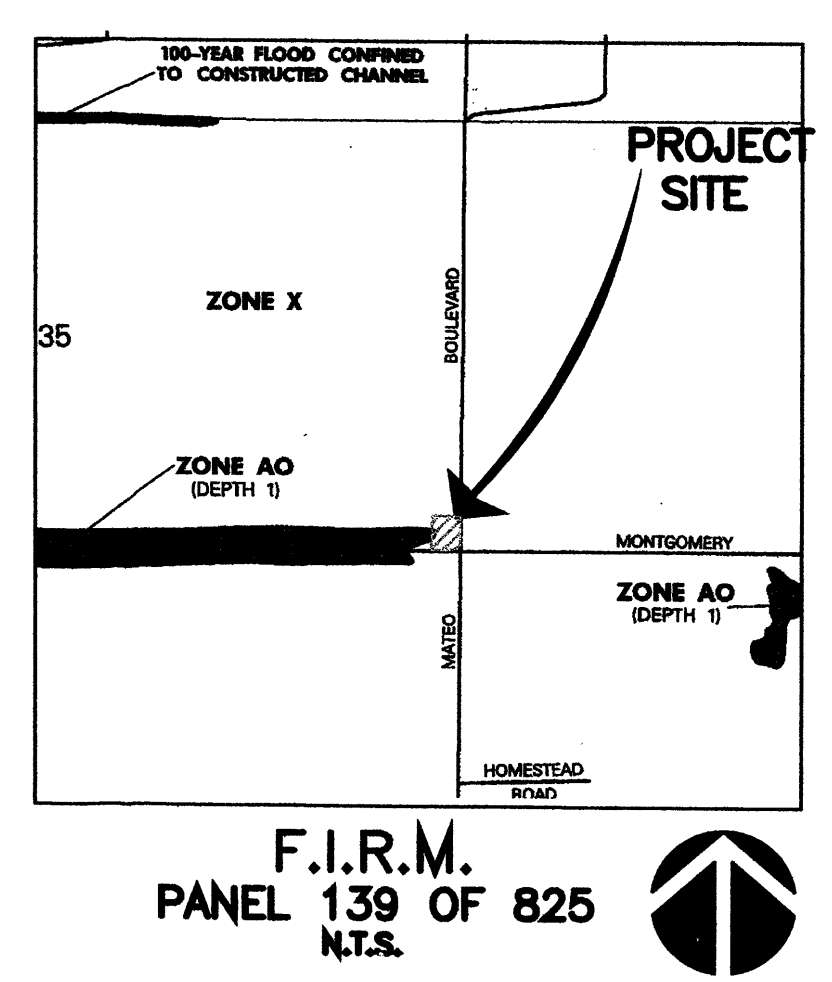
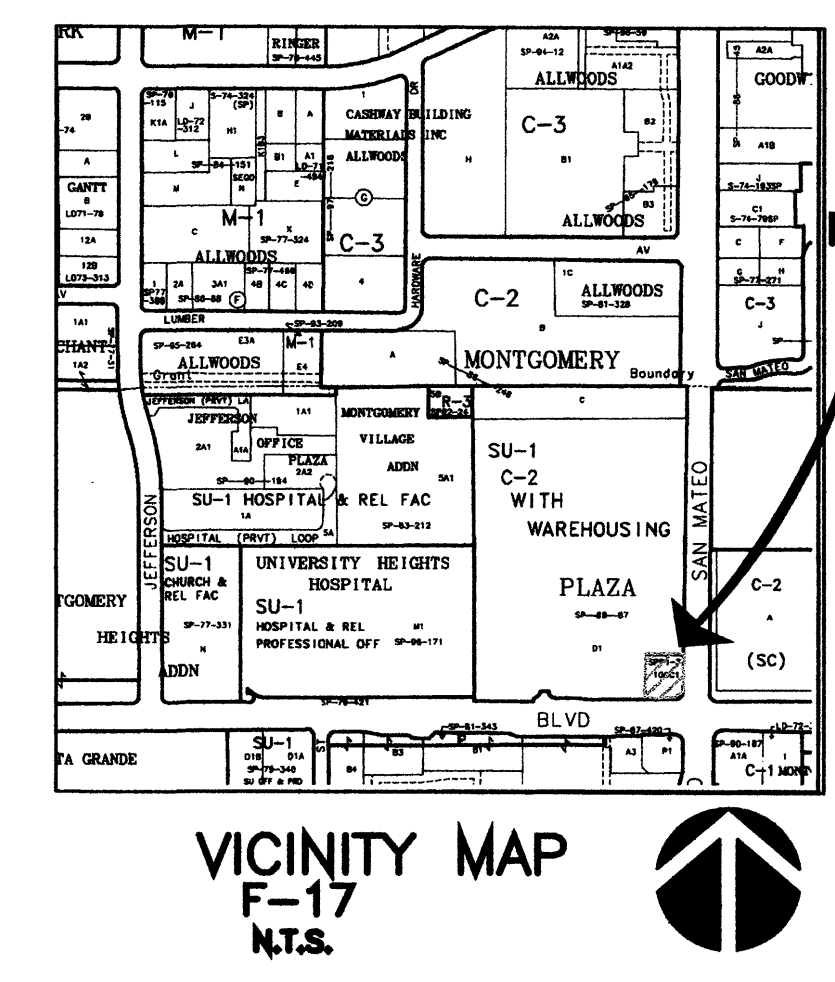
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ΔV = 3,290 - 3,190 = 100 cf (decrease)

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DRAINAGE PLAN

EXECUTIVE SUMMARY

THIS PROJECT, LOCATED ON THE NORTH WEST CORNER OF SAN MATEO BOULEVARD NE AND MONTGOMERY BOULEVARD NE, CONSISTS OF IMPROVEMENTS TO AN EXISTING CHEVRON GAS STATION.

THIS PROJECT REPRESENTS IMPROVEMENTS TO AN EXISTING SITE WITHIN A TOTALLY DEVELOPED INFILL AREA. THE PURPOSE OF THIS DRAINAGE PLAN IS TO OBTAIN BUILDING PERMIT, GRADING PERMIT AND PAVING PERMIT APPROVALS. THERE WILL BE A SLIGHT EXCHANGE OF CURRENTLY DEVELOPED LAND FOR AREAS OF PVIOUS LANDSCAPING. AS A RESULT, THE HYDROLOGY OF THE SITE WILL BE IMPACTED AS DEMONSTRATED IN THE DRAINAGE CALCULATIONS CONTAINED HEREIN, WITH A MINOR DECREASE IN PEAK DISCHARGE.

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AS SHOWN BY PANEL 139 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS, BERNALILLO COUNTY, NEW MEXICO, AND INCORPORATED AREAS, DATED SEPTEMBER 20, 1996, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE. THE SITE DOES HOWEVER CONVEY RUNOFF TO MONTGOMERY BOULEVARD WHICH IS DESIGNATED AS A ZONE AO (DEPTH) FLOOD HAZARD ZONE DOWNSTREAM OF THE SITE.

THE PROPOSED IMPROVEMENTS INCLUDE DEMOLITION OF THE EXISTING CHEVRON GAS STATION AS WELL AS CONSTRUCTION OF MODERNIZED CHEVRON GAS STATION AND CONVENIENCE STORE.

EXISTING CONDITIONS

THE SITE CONSISTS OF ONE MAJOR BASIN WHICH SLOPES NORTHEAST TO SOUTHWEST DISCHARGING INTO MONTGOMERY BOULEVARD VIA SHEET FLOW.

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LEGAL DESCRIPTION:

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ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE STATION No. "10-F18", HAVING AN ELEVATION OF 5202.055.

REV.	DESCRIPTION	DATE

CHEVRON SERVICE STATION

4401 SAN MATEO NE
ALBUQUERQUE, NM

PROJECT NO. **A04019** DATE **SEPT. 14, 2004**

GRADING & DRAINAGE PLAN

DRAWING NO. **C2.0**

