

DRAINAGE INFORMATION SHEET

PROJECT TITLE: ROBERTS OIL-LOMAS AND WASHINGTON

ZONE ATLAS/DRNG, FILE#: K-17 ⁸²

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: Tract 32-A1, lots 1-5, east 10' of lot 6, and east 140' of lot 12, block 32, Heights reservoir addition, City of Albuquerque, Bernalillo County, New Mexico

CITY ADDRESS: _____

ENGINEERING FIRM: Mark Goodwin & Associates CONTACT: David Soule

ADDRESS: PO Box 90606 PHONE: 828-2200

OWNER: Roberts Oil CONTACT: Jim Lewis

ADDRESS: _____ PHONE: 247-1529

ARCHITECT: SLNB Architects CONTACT: Ken Duck

ADDRESS: 1620 CENTRAL PHONE: 247-1529

SURVEYOR: Aldrich Land Surveyors CONTACT: Tim Aldrich

ADDRESS: _____ PHONE: 884-1990

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

CHECK TYPE OF APPROVAL SOUGHT:

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

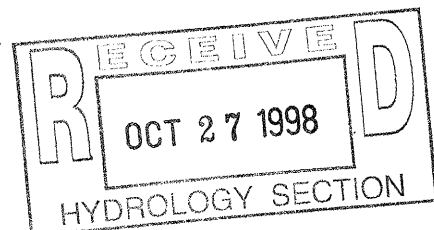
- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D APPROVAL
- ☐ S. DEV. PLAN FOR BLDG PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ BUILDING PERMIT APPROVAL
- ☒ CERTIFICATION OF OCCUPANCY APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ S.A.D. DRAINAGE REPORT
- ☐ DRAINAGE REQUIREMENTS
- ☐ OTHER S.O. 19 (Specify)

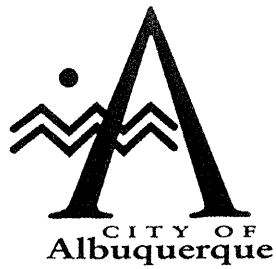
PRE-DESIGN MEETING:

- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

DATE SUBMITTED: October 26 1998

BY: David Soule
David Soule





November 9, 1998

Greg Krenik
Mark Goodwin & Associates
P.O. Box 90606
Albuquerque, New Mexico 87199

RE: ENGINEER CERTIFICATION FOR ROBERTS OIL @ LOMAS & WASHINGTON
(K17-D82) CERTIFICATION STATEMENT DATED 10/26/98

Dear Mr. Krenik:

Based on the information provided on your October 27, 1998 submittal, Engineer Certification for the above referenced site is acceptable.

If I can be of further assistance, please feel free to contact me at 924-3986.

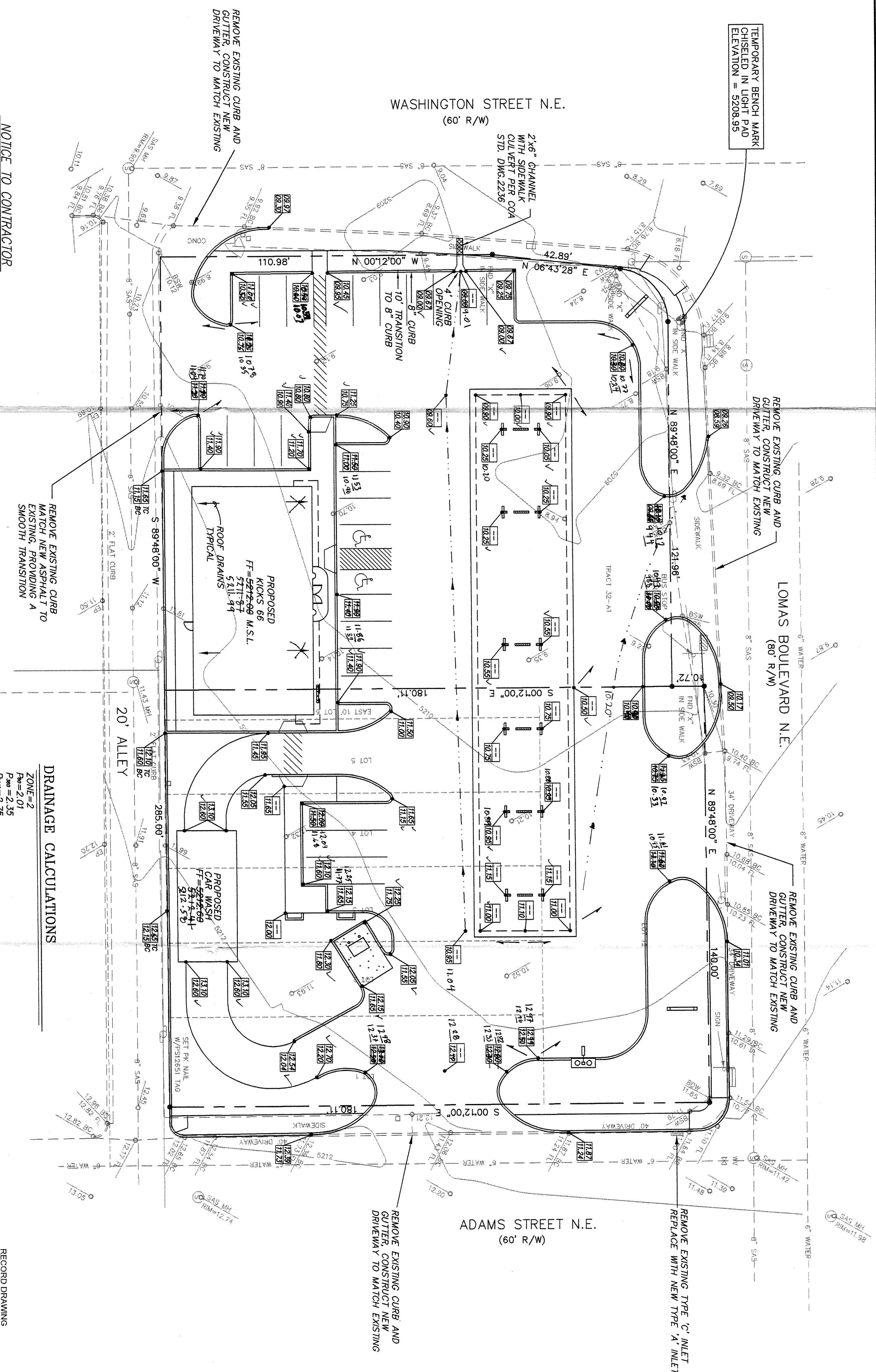
C: Andrew Garcia
File ✓

Sincerely

Bernie J. Montoya CE
Associate Engineer

Good for You, Albuquerque!





NOTICE TO CONTRACTOR

1. An *excavation, construction permit* will be received before beginning any work of any kind. An approved copy of these plans must be submitted at the time of application for this permit.
2. All work performed on these plans is to be performed, except as otherwise stated, in accordance with the standards herein, shall be constructed in accordance with City of Duluth General Ordinance 10.01 (Public Works Construction, (1986 Edition)).
3. Two working days prior to any excavation, Contractor must contact the Line Locating Service, 765-1234, for location of existing utilities.
4. Prior to construction, the Contractor shall locate 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 of delay.
5. Backfill compaction shall be according to residential street use.
6. Maintenance of these facilities shall be the responsibility of the Owner of the property served.
7. Contractor is responsible for obtaining excavation permit for the S.O. 19 and providing proof of acceptance by the City prior to Hydrology sign-off for Certificate of Occupancy.

DRAINAGE FACILITIES WITHIN CITY RIGHT OF WAY

Design Approval	HYDROLOGY SECTION	DATE
	CONSTRUCTION SECTION	DATE
Inspection Approval	CONSTRUCTION SECTION	DATE
	CONSTRUCTION/SECTION/PERMITS	DATE
Acceptance		

DRAINAGE CALCULATIONS

ZONE=2
 P₈₀=2.01
 P₃₆₀=2.35
 P₁₄₄₀=2.75
 D_r=0.033 HR
 T_r=0.133 HR

EXISTING CONDITION

AREA=.001841 SQ. MI.
TYPE "A"= 00.0%
TYPE "B"= 00.0%
TYPE "C"= 00.0%
TYPE "D"= 100.0%
Q_{PEAK} = 5.55 CFS
V₁₀₀ = .2077 ACRE FEET

PROPOSED CONDITION

AREA=001841 SQ. MI.
TYPE "A"= 00.0%
TYPE "B"= 10.0%
TYPE "C"= 10.0%
TYPE "D"= 80.0%
Q_{peak} = 5.08 CFS
V₁₀₀ = .1846 ACRE FEET

CURRB OPENING CAPACITY¹³
$$Q_{\text{max}} = 2.9 \cdot 1.71$$

$$= 6.32 > Q_{\text{actual}} = 5.08 \text{ CF}$$

CHANNEL/SIDEWALK CULVERT CAPACITY

$$Q_{\text{maximu}} = (K/N) * A * R_n * S$$

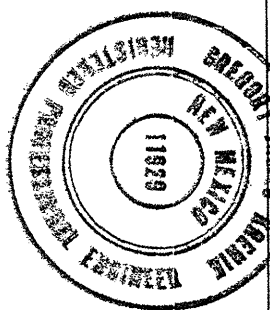
$$= 11.01 \text{ CFS} > Q_{\text{actual}} = 5.08 \text{ CFS}$$

THE EXISTING SITE CONSISTS OF ONE BUILDING AND A COMPLETELY PAVED LOT. THE EXISTING SITE DRAINS FROM THE EAST TO THE WEST, DISCHARGING AT THE NORTHWEST CORNER INTO BOTH WASHINGTON AND LOMAS. THE PROPOSED CONDITION WILL MAINTAIN THE EXISTING FLOW PATTERN AND HAVE A REDUCED DISCHARGE COMPARED TO THE HISTORICAL RATES.

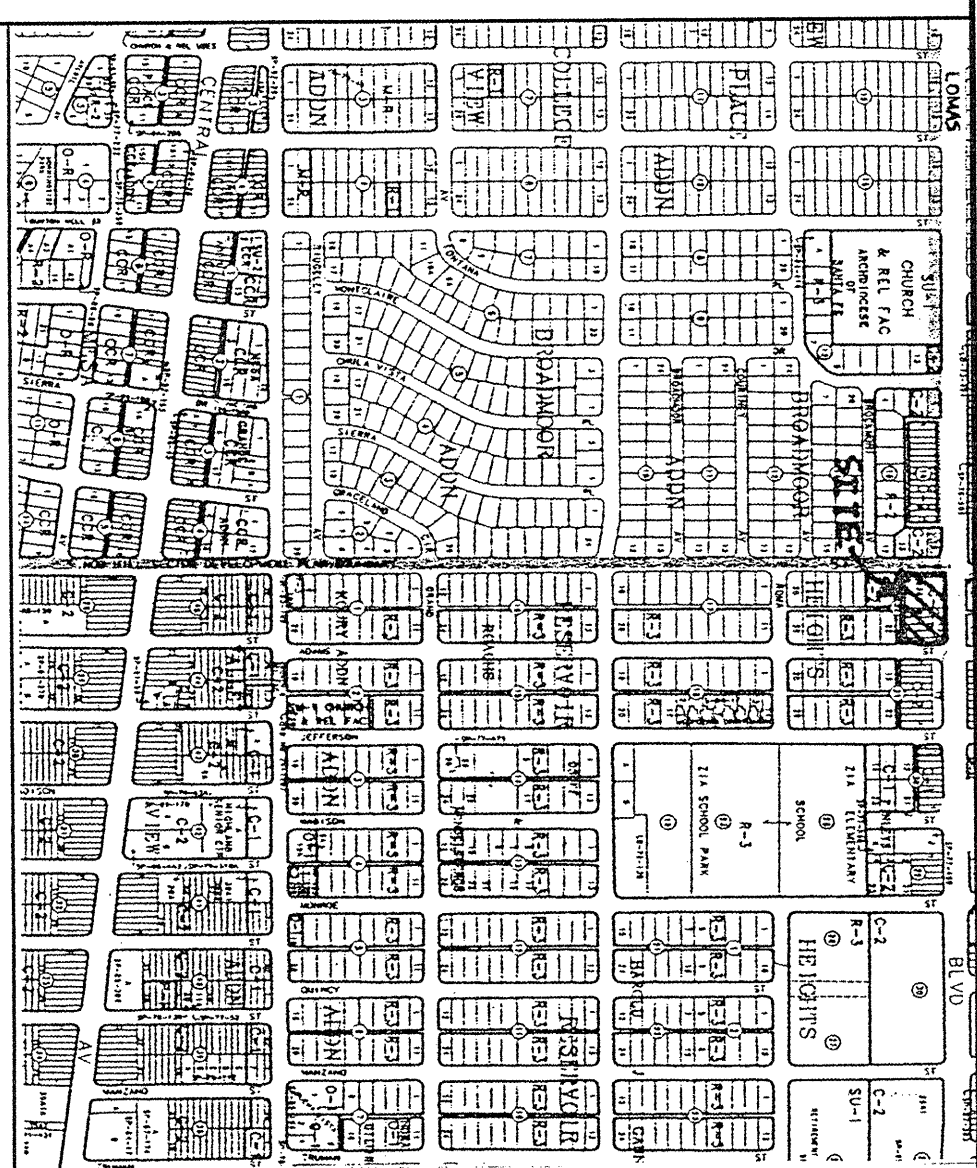
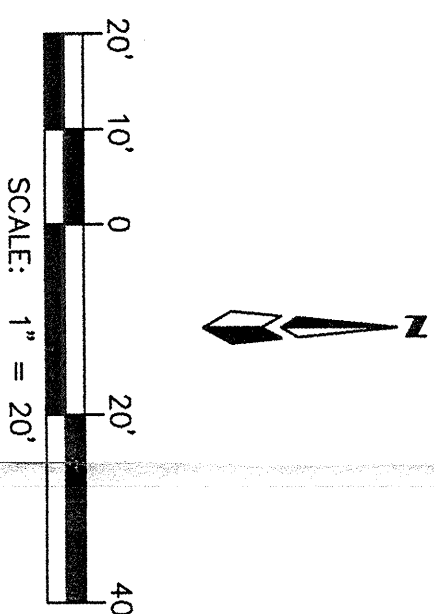
RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the surveyor, Southwest Survey, and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

Gregory J. Krenik NMPE 11929



APPROVED BY STORM DRAIN MAINTENANCE



VICINITY MAP ZONE MAP: K-17-Z

T B M (TEMPORARY BENCHMARK)

ON NORTHWEST CORNER OF PROPERTY AT THE INTERSECTION OF WASHINGTON STREET AND LOMAS BOULEVARD CHISELED MARK IN LIGHT PAD ELEVATION=5208.95.

ACS BENCHMARK

STATION IS APPROXIMATELY 3.4 MILES NORTHEAST OF DOWNTOWN ALBUQUERQUE, AT THE INTERSECTION OF U.S. HIGHWAY I-40 AND WASHINGTON STREET.

TO REACH THE STATION FROM THE INTERSECTION OF CENTRAL A AND WASHINGTON ST., GO NORTH ON WASHINGTON ST. 1.7 MILES. BRIDGE OVER I-40. STATION IS AT THE SOUTHEAST CORNER OF BRIDGE.



















STATION MARK IS A STANDARD NWSHC BRASS TABLET STAMPED "STA. 1-40-10" AND SET IN CONCRETE MONUMENT FLUSH WITH GROUND.

X=396,882.75 Y=1,493,136.20 ELEVATION=5193.950

LEGAL DESCRIPTION

TRACT 32-A1, LOTS 1-5, EAST 10' OF LOT 6, AND EAST 140' OF LOT 12, BLOCK 32 HEIGHTS RESERVOIR ADDITION IN BERNALILLO COUNTY, NEW MEXICO.

LEGEND

- | | |
|---|--|
|  | EXISTING DROP INLET |
|  | EXISTING BUS STOP BENCH |
|  | EXISTING TRAFFIC SIGNAL BOX |
|  | EXISTING FLAG POLE |
|  | EXISTING UTILITY POLE |
|  | EXISTING SEWER MANHOLE |
|  | EXISTING TRAFFIC LIGHT POLE |
|  | EXISTING BOLLARD |
|  | EXISTING WATER METER |
|  | EXISTING WATER VALVE |
|  | EXISTING CONTOUR |
|  | EXISTING SPOT ELEVATION |
|  | EXISTING TOP OF CURB AND FLOWLINE SPOT ELEVATION |
|  | PROPERTY LINE |
|  | PROPOSED CURB |
|  | EXISTING CURB |
|  | PROPOSED SANITARY SEWER LINE |
|  | PROPOSED FLOW ARROW |

ROBERTS OIL

GRADING AND DRAINAGE PLAN

cmg
MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. Box 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9533

Scale: 1" = 20'	Date: 4/98	Job: 98019
-----------------	------------	------------

8019R0\8019GD20\05-13-98

RECEIVED
7 of 7
OCT 27 1998
HYDROLOGY SECTION