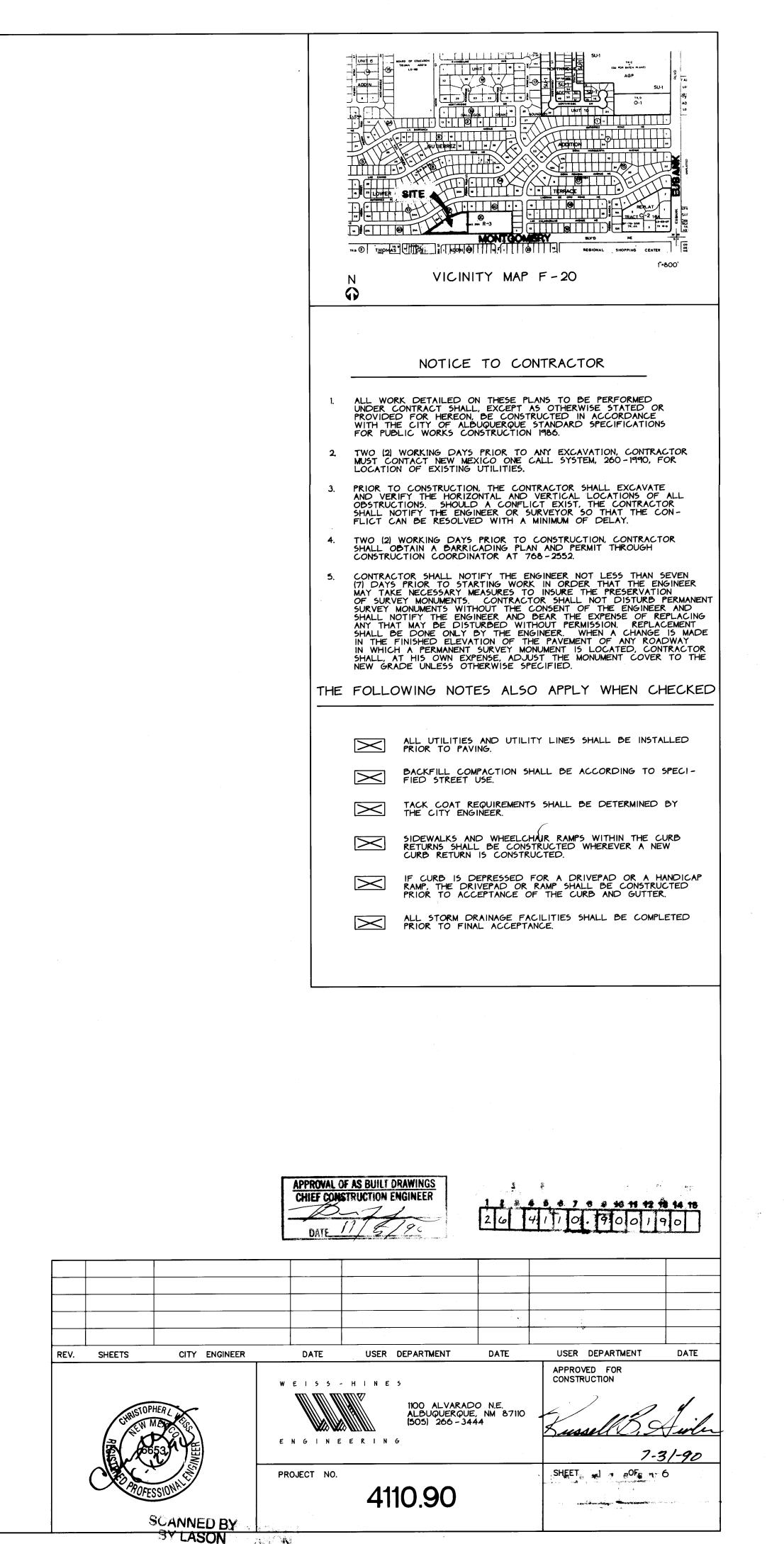
# LOVELACE CLINIC

# INDEX OF DRAWINGS

- 1. TITLE SHEET
- 2. PLAT
- 3. DRAINAGE / GRADING PLAN (1 OF 2)
- 4. DRAINAGE / GRADING PLAN (2 OF 2)
- 5. WATER PLAN AND PROFILE / SIDEWALK PLAN
- 6. TURN BAY PLAN



THE PURPOSE THEREIN CONTAINED AS THEIR OWN FREE ACT AND DEED.

WITNESS MY HAND AND NOTARIAL SEAL THIS 20 NO

\_, 19<u>90</u>

Name + letter

NOTARY (PUBLIC

MY COMMISSION EXPIRES:

EASEMENTS IN CONFORMITY WITH ANY SITE PLAN FOR THE TRACTS AS

FINALLY APPROVED BY THE CITY OF ALBUQUERQUE AND AS SHOWN ON

FOR RECORD WITH THE COUNTY CLERK OF BERNALILLO COUNTY, NEW

SUBSTITUTE EASEMENT.

Plat & Survey By:

Plat & Survey By:

MEXICO. SUCH EXECUTION, ACKNOWLEDGEMENT, AND RECORDING WILL WORK A TERMINATION OR VACATION OF ANY PREVIOUS INTEREST OR RELOCATED EASEMENT, AND WILL CONSTITUTE A GRANT OF THE

ALBUQUERQUE SURVEYING CO. INC., 2119 Menaul Blvd. N.E., Albuquerque, New Mexico 87107 Ph. (505) 884-2036

ALBUQUERQUE SURVEYING CO. INC., 2119 Menaul Blvd. N.E., Albuquerque, New Mexico 87107 Ph. (505) 884-2036

ANY SUBSEQUENT REPLATS OR RECORDED EASEMENTS. THE LOCATION OF RELOCATED PEDESTRIAN AND VEHICLE EASEMENTS MAY BE DESCRIBED ON A SUBSEQUENT REPLAT OR IN AN "AFFIDAVIT OF RELOCATION" EXECUTED AND ACKNOWLEDGED BY THE OWNERS OF THE VARIOUS TRACTS AND FILED

SUPERVISION, SHOWS ALL EASEMENTS MADE KNOWN TO ME BY THE OWNER,

UTILITY COMPANIES OR OTHER PARTIES EXPRESSING AN INTEREST AND THAT

THE SURVEY MEETS THE MINIMUM REQUIREMENTS FOR MONUMENTATION AND

SURVEYS OF THE CITY OF ALBUQUERQUE SUBDIVISION ORDINANCE AND THE BERNALILLO COUNTY SUBDIVISION ORDINANCE AND IS TRUE AND CORRECT

SHEET I OF 2

SHEET 2 OF 2

TO THE BEST OF MY KNOWLEDGE AND BELIEF.

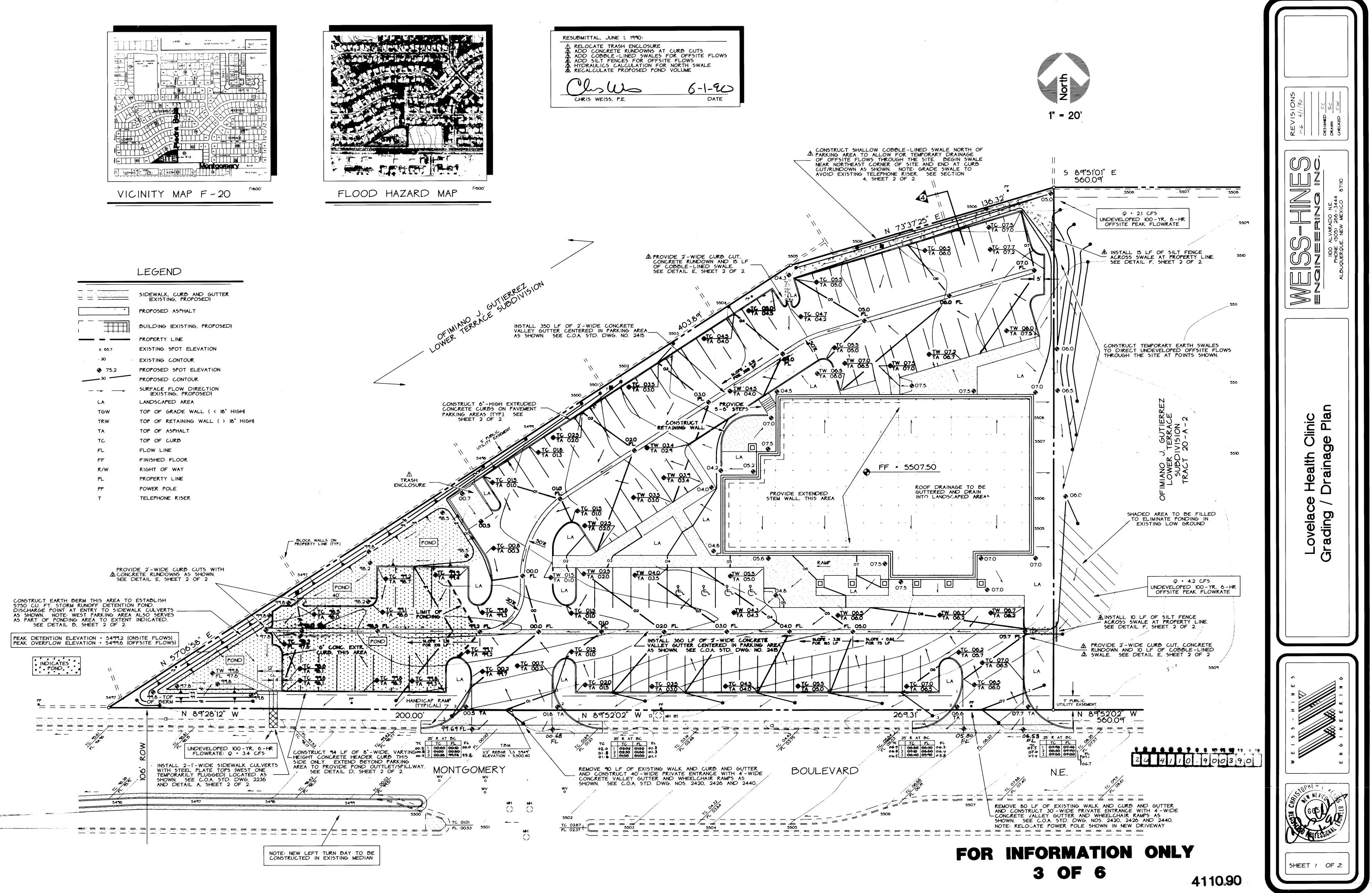
NO.

4078

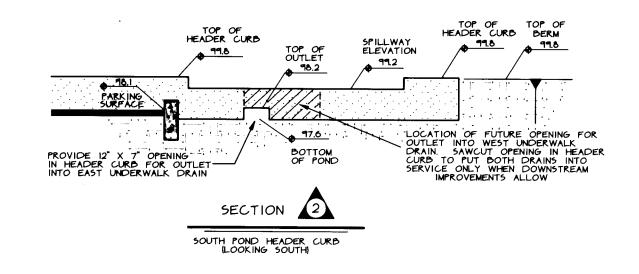
124014 9050280 PLAT TRACTS 20-A1 & 20-A2, BLOCK 20 OFIMIANO J. GUTIERREZ LOWER TERRACE ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO MAY 1990 State of New Mexico KPE BRASS CAP (FOUND IN PLACE)
NEW MEXICO STATE PLANE
COORDINATE SYSTEM (CENTRAL ZONE) OFIMIANO J. GUTIERREZ Y=1,502,902.00 LOWER TERRACE SUBDIMISION X = 415,756.42FILED: JULY 15, 1963 G-G=0.9996410 VOLUME C5, FOLIO 173  $\Delta \alpha = -00^{\circ}09'44''$ ELEV.=5584.101 - FND #4 REBAR W/CAP "L.S. 5949" OFIMIANO J. GUTIERREZ LOWER TERRACE SUBDIVISION FILED: JANUARY 26, 1966 LOT 10 VOLUME D3, FOLIO 131 S.89"51"01"E. (N.89'58'00"E., 560.00') 560.09' C 5, BABRIC ALIFLLA - Q = 2.1 CFS (D2-91)LOT 4 S.81°26'59"E., 2,139.66' - IO' WIDE DRAINAGE EASEMENT GRANTED BY THIS PLAT TO PROVIDE CROSS-LOT-LINE DRAINAGE FROM TRACT 20-AI 5' PUBLIC UTILITY EASEMENT OVERHEAD UTILITY EASEMENT GRANTED BY THIS PLAT FOR EXISTING OVERHEAD UTILITIES ONTO TRACT 20-A2 LOT 3 OFIMIANO J. GUTIERREZ LOWER TERRACE SUBDIVISION FILED: NOVEMBER 30, 1962 VOLUME D3, FOLIO 50 TRACT 20-A2 TRACT 20-A1  $\triangle$ 69,073 SQ. FT. 1.5857 ACRES ੂੰ LOT 2 OFIMIANO J. GUTIERREZ LOWER TERRACE SUBDIVISION PUBLIC UTILITY EASEMENT (D2-91) -Q=4.2 CFS 7' PUBLIC UTILITY EASEMENT FILED: JANUARY 29, 1960 FILED: JANUARY 29, 1960 VOLUME D2, FOLIO 90 AND 7' PNM AND MOUNTAIN STATES VOLUME D2, FOLIO 90 -- 15' WIDE PUBLIC WATERLINE ESMT. 5' x 25' ANCHOR EASEMENT FND 5/8" REBAR W/CAP "L.S. 6544"-TELE. & TELE. EASEMENT GRANTED BY THIS PLAT FOR FND 1/2" REBAR - W/CAP "L.S. 5949" DOCUMENT NO. 13260 GRANTED BY THIS AN EXISTING ANCHOR FILED: APRIL 17, 1959 BOOK D425, PAGE 585 PLAT S LOT 1 .W/CÄP "L.S. 4078". ·····690.00'· LOT 21A (N.89°39'00"W., 200.00') 200.00' N.89°52'02"W. (S.89'57'10"W.) N.62'55'49"W., 102.97' "12-F20A"

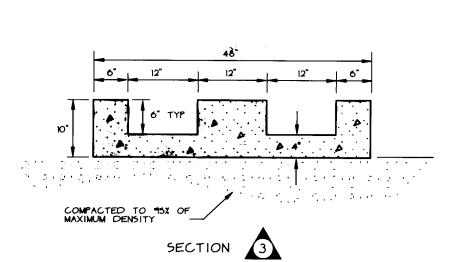
ACS BRASS CAP
(FOUND IN PLACE)

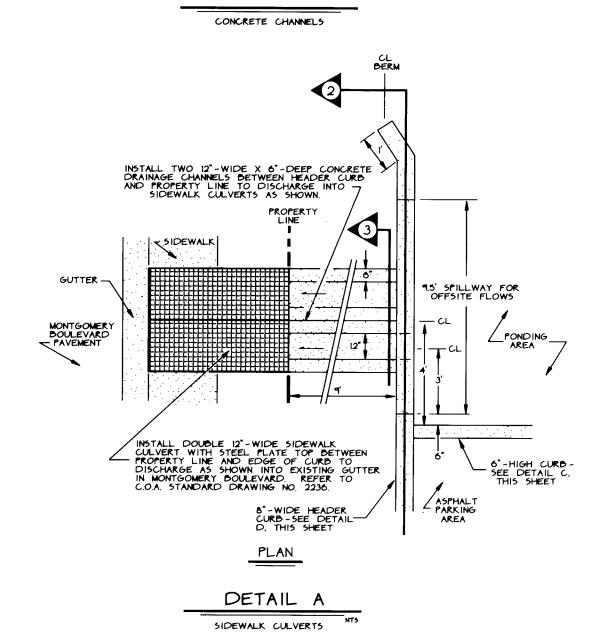
NEW MEXICO STATE PLANE N.E. BOULEVARD, **MONTGOMERY** COORDINATE SYSTEM (CENTRAL ZONE) Ý=1,502,913.48 X = 413.732.05G-G=0.9996443  $\Delta \alpha = -00^{\circ}09^{\circ}58^{\circ}$ ELEV.=5524.981 SURVEYOR'S CERTIFICATION PRIOR TO DEVELOPMENT, CITY OF ALBUQUERQUE WATER AND SANITARY I, FRED SANCHEZ, A DULY QUALIFIED PROFESSIONAL SURVEYOR SEWER SERVICE TO Lot 20-A2 MUST BE VERIFIED REGISTERED UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY AND COORDINATED WITH THE PUBLIC WORKS DEPARTMENT, CITY OF CERTIFY THAT THIS PLAT WAS PREPARED BY ME OR UNDER MY DIRECT ALBUQUERQUE, VIA A REQUEST FOR A WATER AND SANITARY SEWER SUPERVISION, SHOWS ALL EASEMENTS MADE KNOWN TO ME BY THE OWNER AVAILABILITY STATEMENT. UTILITY COMPANIES OR OTHER PARTIES EXPRESSING AN INTEREST AND THAT THE SURVEY MEETS THE MINIMUM REQUIREMENTS FOR MONUMENTATION AND SURVEYS OF THE CITY OF ALBUQUERQUE SUBDIVISION ORDINANCE AND THE BERNALILLO COUNTY SUBDIVISION ORDINANCE AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NO. 4078

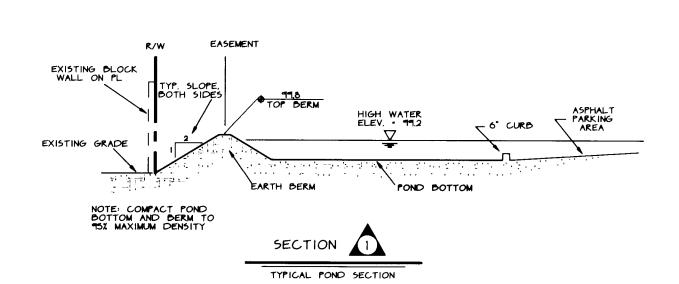


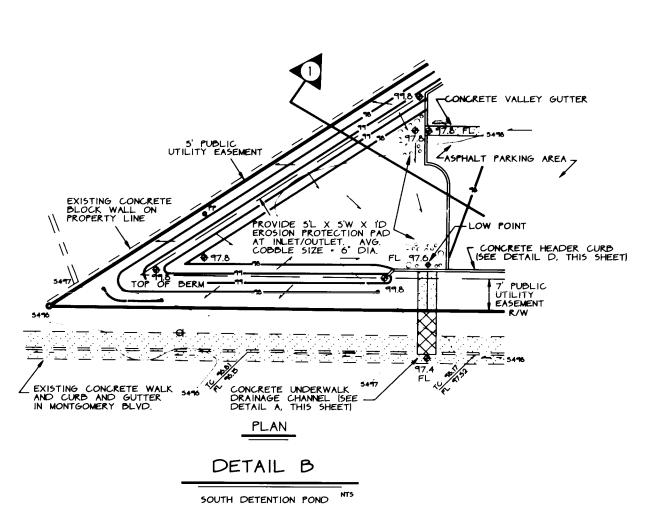
GANNED BY ASON

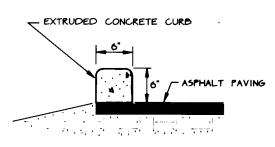








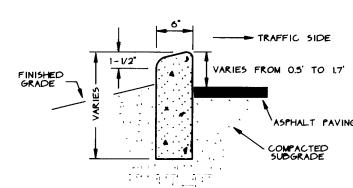




#### GENERAL NOTES

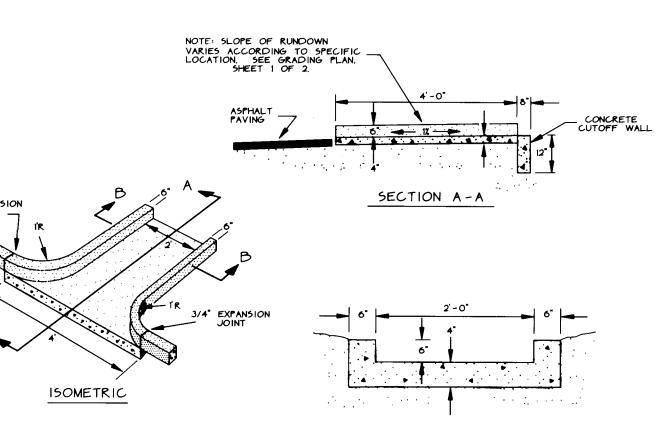
- 1. PROVIDE CONTRACTION JOINTS AT 10' O.C. MAXIMUM.
- 2. PROVIDE 1/2" EXPANSION JOINTS ADJACENT TO WALLS AND CURB RETURNS 3. REMOVE EDGES WITH 3/8" EDGING TOOL

DETAIL C



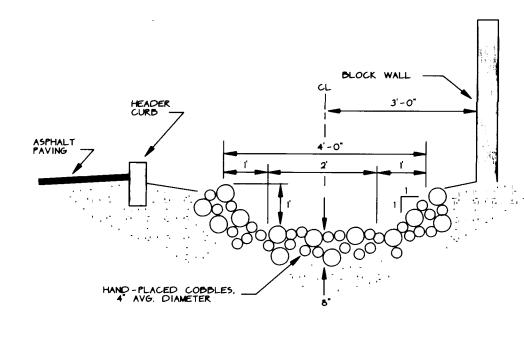
#### GENERAL NOTES

- 1. PROVIDE CONTRACTION JOINTS AT 10' O.C. MAXIMUM
- 2. PROVIDE 1/2" EXPANSION JOINTS ADJACENT TO WALLS AND AT CURB RETURNS 3. REMOVE EDGES WITH 3/8" EDGING TOOL

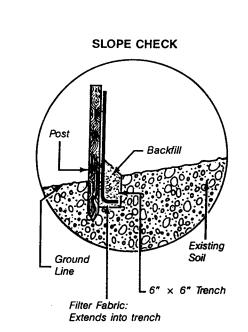


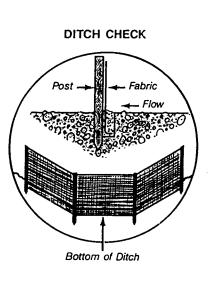


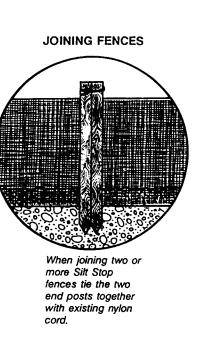
SECTION B-B













## 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.
- 2. All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with Albuquerque Interim Standard Specifications for Public Works
- 3. Two working days prior to any excavation, contractor must contact Line Locating Service, 765-1234, 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.
- 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 sidewalk
- 8. 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	Hydrology Section	Date
INSPECTION APPRO	OVAL: Construction Section	Date
ACCEPTANCE:		

Construction Section/Permits



The proposed improvements are comprised of a 12,000 SF slab-on-grade medical clinic, asphalt paved parking areas, and associated walks and landscaped areas. In addition, a storm runoff detention pond will be constructed near the site's

The present site is open undeveloped land fronting on Montgomery Boulevard N.E. and sloping at approximately 2% from

#### The intent of this plan is to show:

- a) Grading relationships between the existing ground elevations and proposed finished elevations in order to facilitate positive drainage to designated discharge points.
- b) 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 onsite improvements with existing neighboring property to insure an orderly transition between proposed and surrounding grades.

#### DRAINAGE PLAN CONCEPT:

Developed flows generated onsite will drain to a detention pond located in the southwest corner of the site. The detention pond is sized to hold the difference between developed and undeveloped runoff volumes (5,750 CF). The pond will discharge into Montgomery Boulevard through a 1'-wide underwalk drainage channel at a rate equal to the site's peak undeveloped flow rate (3.4 cfs) as specified in a pre-design meeting with City Hydrology, March 12, 1990.

The detention pond is comprised of and is designed to back water into three landscaped areas and part of the western parking area. The water surface elevation when the pond reaches the design volume of 5750 feet will be 5499.20 feet. Note: in the event that future downstream improvements will allow for full discharge of developed flows from this site (6.4 cfs), a second 1'-wide underwalk drainage channel has been provided for but temporarily blocked. Unblocking the second channel will allow a discharge rate of (3.4 cfs)(2) = 6.8 cfs when needed.

A peak offsite runoff rate of 6.3 cfs shall be temporarily routed through the site as follows: 2.1 cfs is intercepted north of the north parking area and then routed through the parking area to the detention pond; 4.2 cfs is directed into the south parking lot at the east property line and routed to the detention pond. A spillway is located above the pond outlet to provide a discharge point for the offsite peak flows to drain from the pond.

#### **GENERAL NOTES**

LEGAL: Tract 20-A-1 of Ofimiano J. Gutierrez Lower Terrace Subdivision, Albuquerque, NM.

SURVEYOR: Albuquerque Surveying Company, Inc., 2119 Menaul N.E., Albuquerque, NM.

B.M.: ACS brass cap stamped "12-F20A", located in the median at the intersection of Montgomery Boulevard N.E. and Dona Marguerita Avenue N.E. Elevation = 5524.981.

T.B.M.: No.4 rebar with Cap "LS 5949" property corner located on the south property line. Elevation = 5500.40.

SOILS:Per SCS Soil Survey for Bernalillo County, soil is Embudo-Tijeras Complex, a gravely fine sandy loam classified in

FLOOD HAZARD: Per F.E.M.A. Flood Hazard Maps, the site is not located in a flood hazard zone.

OFF-SITE DRAINAGE: No offsite flows reach the site from the north, south, or west. Approximately 6.3 cfs of developed flows reach the site from the east.

EROSION CONTROL: All sediment generated during construction shall be retained on site by means of temporary be along the south property line.

#### **CALCULATIONS**:

Calculations are based on the City of Albuquerque D.P.M. Manual, Vol. II for the 100-year, 6-hour storm, using the tional Formula to compare the existing and proposed runoff rates, and the SCS Method for comparing existing and de oped runoff volumes.

#### AREA OF SITE: 69,065 SF = 1.59 AC

**RAINFALL INTENSITY:** DIRECT RUNOFF (UNDEVELOPED): DIRECT RUNOFF (DEVELOPED):  $I = P_6 (6.84) T_c^{-0.51} = 5.28$ " per hour where  $P_6 = 2.5$ " (DPM 22.2 D-1) R = 0.5" R = 1.5" where P = 2.5", CN = 70where P = 2.5", CN = 89T<sub>c</sub> = 10 minutes

#### **RUN-OFF COEFFICIENT:**

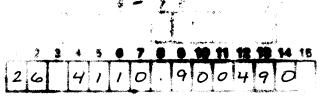
Existing site: Developed Site: Undeveloped Area = 69,065 SF Landscaped Area = 16,980 SF Paved Area = 40,109 SF  $C_u = \underline{69,065(0.40)} = 0.40$  $C_r = 11,976(0.90) = 0.15$  $C_1 = \frac{16,980(0.25)}{69,065} = 0.06$  $C_p = \frac{40,109(0.95)}{69,065} = \frac{0.55}{69,065}$ Composite C = 0.40

**Existing Condition: Developed Condition:**  $Q_{100} = (0.40)(5.28)(1.59)$  $Q_{100} = (0.76)(5.28)(1.59)$ = 3.4 cfs= 6.4 cfs $V_{120} = (0.5)(69,065)/12$  $V_{100} = (1.5)(69,065)/12$ = 2880 CF

 $\overline{Q_{100}} = (6.4)$ -(3.4) = 3.0 cfs (increase)  $V_{100} = (8630)-(2880) = 5750 \text{ CF (increase)}$ 

OFFSITE FLOWS: North: Q = (0.40)(5.28)(1) = 2.1 cfsSouth: Q = (0.40)(5.28)(2) = 4.2 cfs6.3 cfs Total

SITE DISCHARGE FLOW RATE: Underwalk drain, 12" wide, 7.5" deep, c = 0.017, s = 2%: Q = 3.4 cfs



**DETENTION POND SIZE REQUIRED:**  $V_P = V_D - V_U = 8630 - 2880 = 5750 \text{ SF}$ 

#### **DETENTION POND SIZE PROVIDED:**

(5)

South Landscaped Area: 1000 (99.2 - 97.7 avg.depth) + 300 (99.2-99.7) = 1725 CF

Middle Landscaped Area: 500(1.0) = 500 CFNorth Lanscaped Area: 1000(0.3) = 300 CFParking Area: 4600(0.75) = 3450 CFTotal Pond Volume = 5975 CF

POND SPILLWAY WEIR: INFORMATION **FOR** To handle offsite undeveloped flows passing through the site:  $Q = CLH^{3/2}$ , where ONLY Q = 6.3 cfs, C = 2.50, h = 0.4

#### NORTH COBBLE-LINED SWALE Frapezoidal cross-section, see Section 4

A = 1.19 SF, V = 1.7 ft/sec, d = 0.5

length of weir = 9.5'

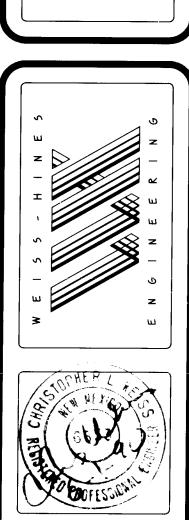
Using Manning's Equations with Q = 2.1 cfs, S = 0.5%, N = 0.03:

Composite C = 0.76

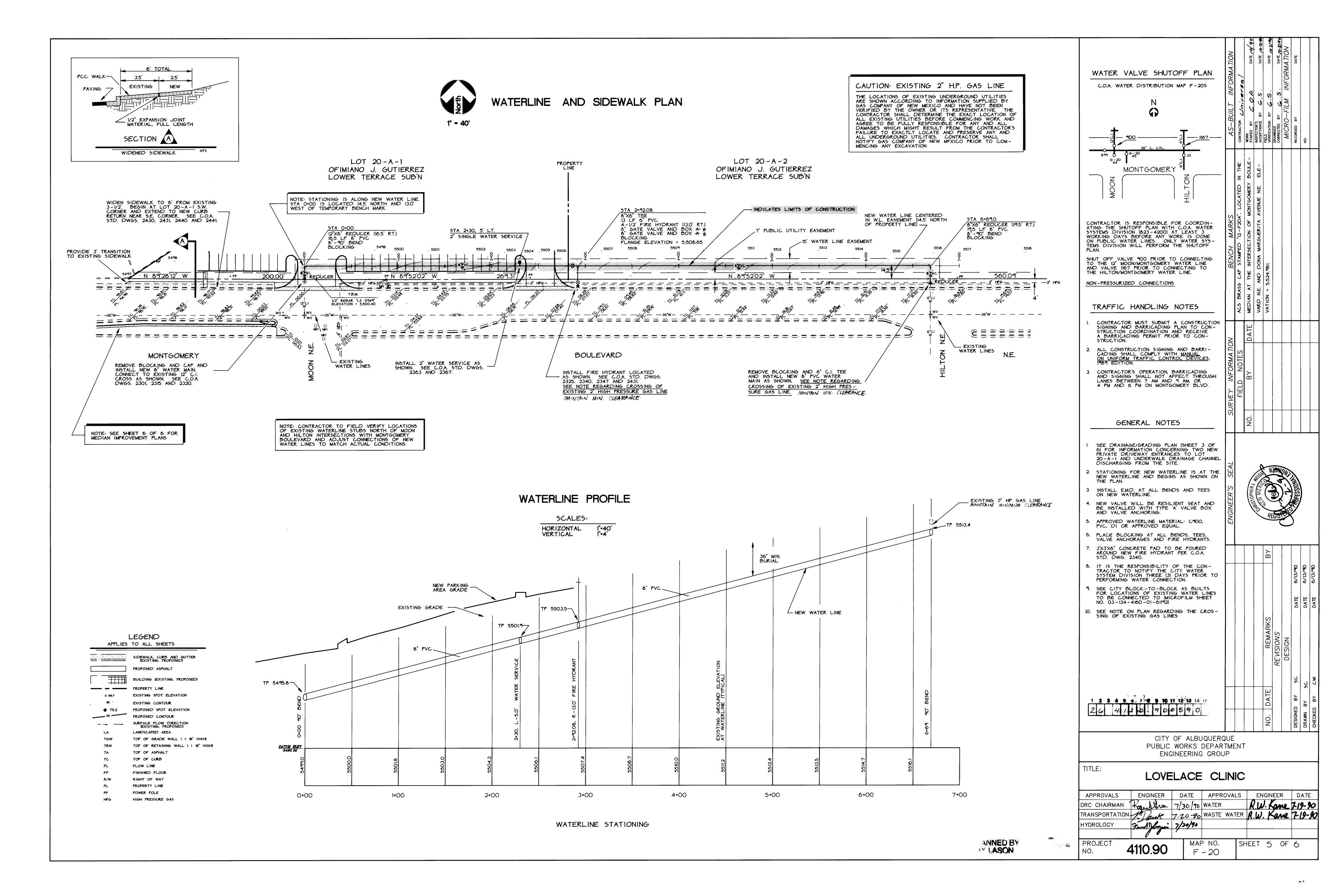
= 8630 CF

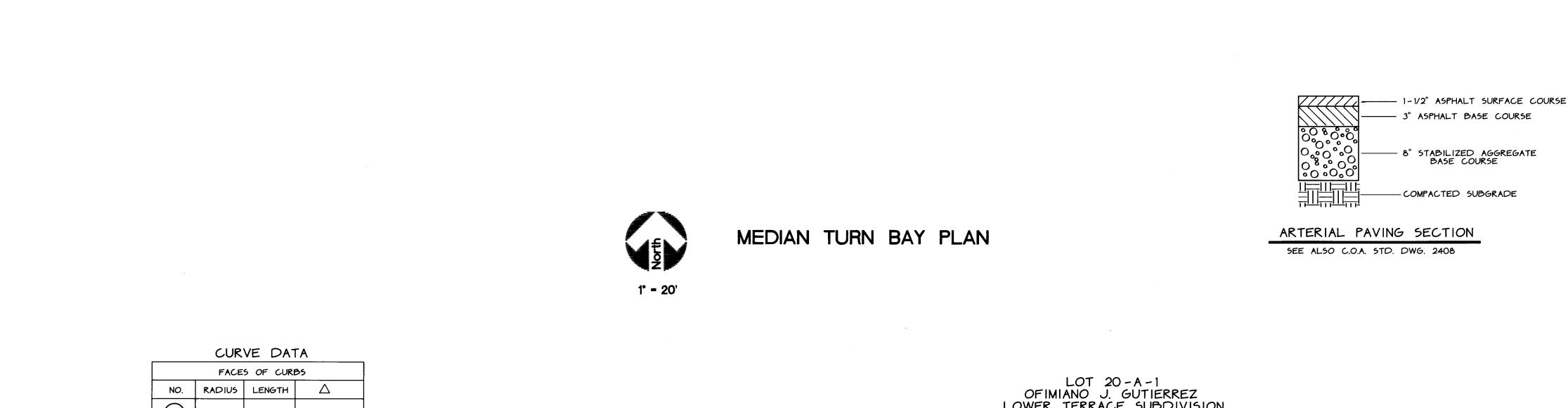
4 OF 6

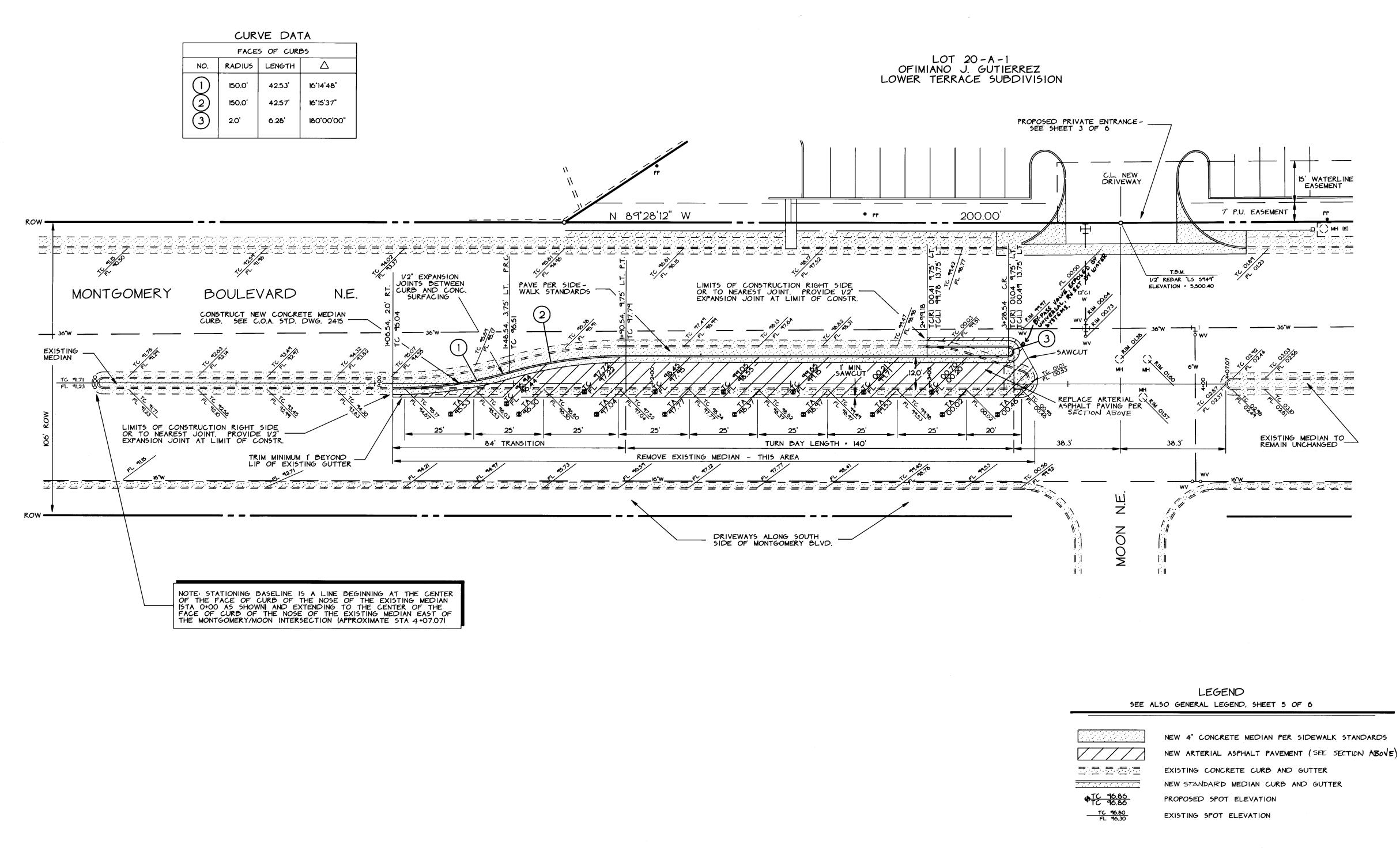




SHEET 2 OF







SEE NOTE LEFT FOR MEDIAN STATIONING INFORMATION 2. MATCH EXISTING ARTERIAL PAVEMENT TRAFFIC HANDLING NOTES CONTRACTOR MUST SUBMIT A CONSTRUCTION SIGNING AND BARRICADING PLAN TO CON-STRUCTION COORDINATION AND RECEIVE A BARRICADING PERMIT PRIOR TO CON-STRUCTION. ALL CONSTRUCTION SIGNING AND BARRI-CADING SHALL COMPLY WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 1989 EDITION. CONTRACTOR'S OPERATION, BARRICADING AND SIGNING SHALL NOT AFFECT THROUGH LANES BETWEEN 7 AM AND 9 AM, OR 4 PM AND 6 PM ON MONTGOMERY BLVD. CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP TITLE: LOVELACE CLINIC ENGINEER DATE APPROVALS ENGINEER DATE APPROVALS N/A RWK 7-19-90 DRC CHAIRMAN There 7.20-90 WASTE WATER N/A RWL 7-19-90 TRANSPORTATION HYDROLOGY PROJECT SHEET 6 OF 6 4110.90 F-20

CANNED BY

GENERAL NOTES