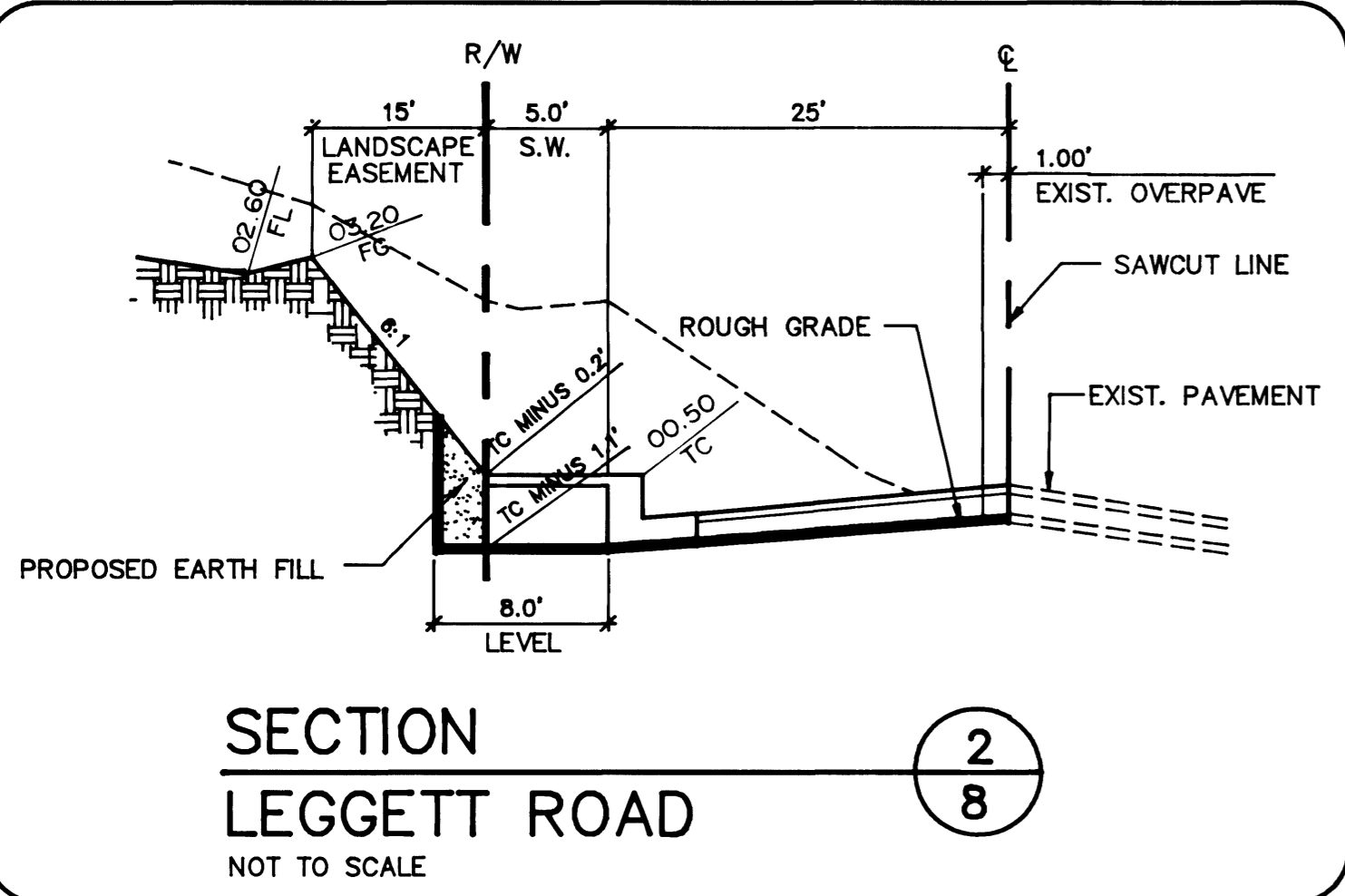


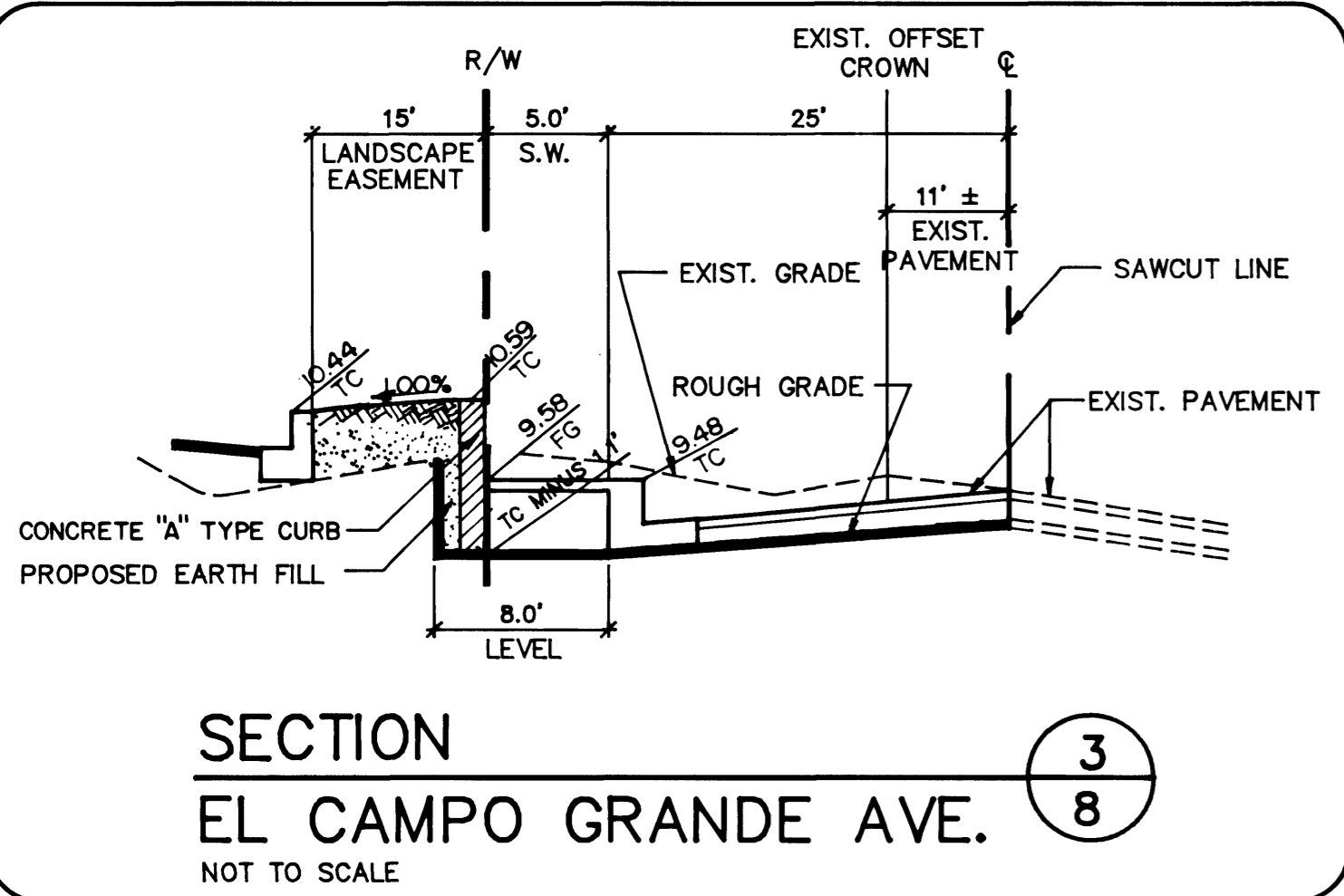
SECTION 1  
CIMARRON ROAD  
NOT TO SCALE

1  
8



SECTION 2  
LEGGETT ROAD  
NOT TO SCALE

2  
8



SECTION 3  
EL CAMPO GRANDE AVE.  
NOT TO SCALE

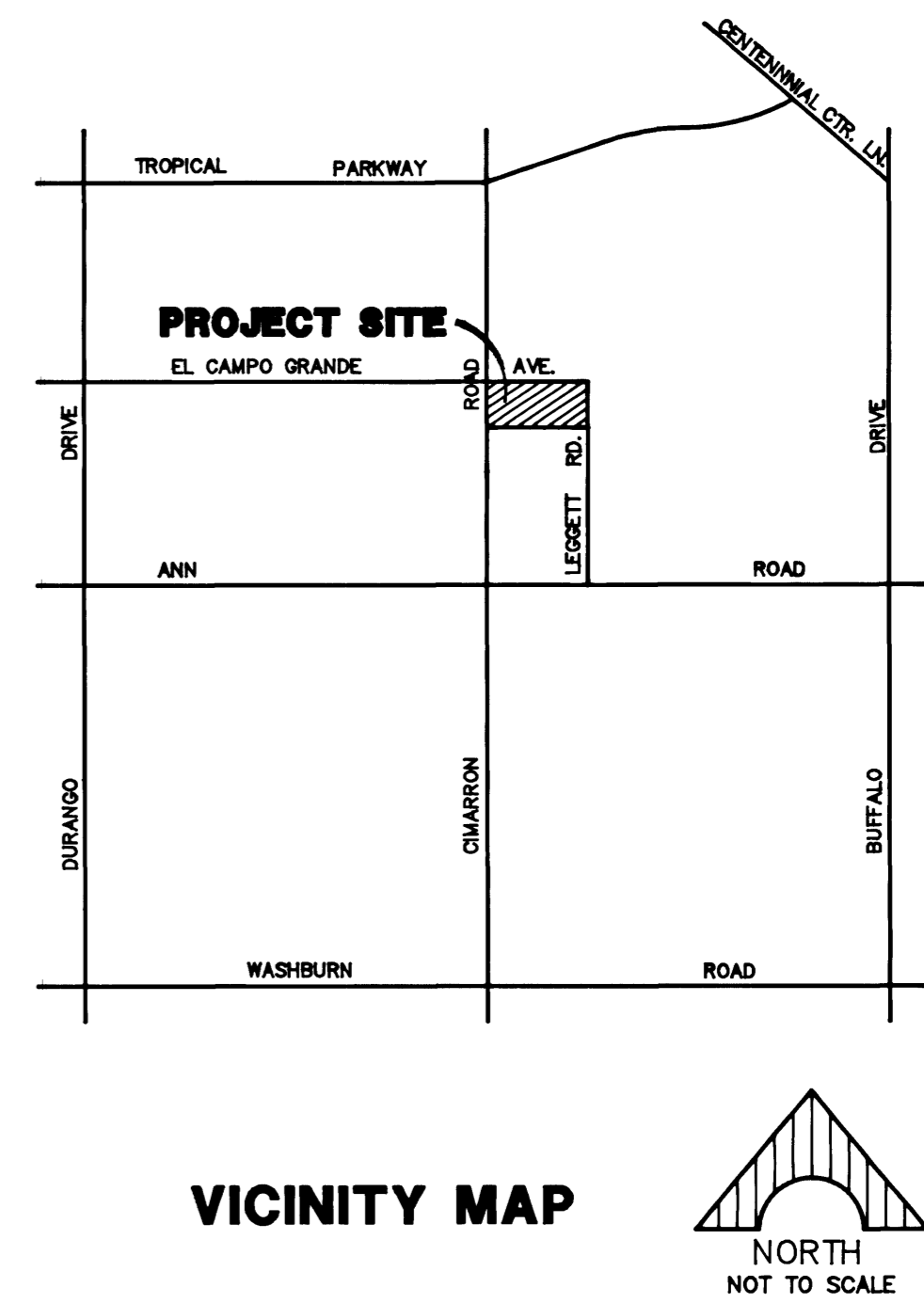
3  
8

GRADING NOTES:

- INDICATED GRADES OTHER THAN T.C., F.G., & F.L., ARE ROUGH GRADES. (0.3' LOWER THAN FINISHED GRADE.)
- ALL GRADING OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS AS INDICATED IN THE SOILS STUDY BY BBC ENGINEERING, INC., BBC NO. 91583 DATED NOVEMBER 12, 1999.
- CARE SHALL BE EXERCISED IN GRADING OF REAR YARDS OF CORNER LOTS.
- EARTH QUANTITIES:
 

CUT	4,850	C.Y.
FILL	7,121	C.Y.

  - THE ABOVE QUANTITIES DO NOT REFLECT LOSSES DUE TO SUBSIDENCE AND/OR SHRINKAGE.
  - THE ABOVE QUANTITIES DO NOT REFLECT USING TYPE 1 GRAVEL BASE MATERIAL FOR STREET SECTIONS.
- THE ROUGH GRADING OPERATION SHALL BE FINISHED IN CONFORMANCE WITH THE LINES AND GRADES SHOWN ON THESE PLANS. THE GRADING QUANTITIES ARE BASED ON THE ELEVATIONS AND DETAILS SHOWN.
- THE ABOVE QUANTITIES SHOWN ARE ESTIMATES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT QUANTITIES INVOLVED.
- OWNER AGREES THAT IF EXISTING NATIVE MATERIAL DOES NOT CONFORM TO SPECIFICATIONS FOR TYPE 1 BASE, OWNER WILL IMPORT TYPE 1 BASE FOR A.C. PAVEMENT AND COMPLY WITH CLARK COUNTY STANDARDS.



VICINITY MAP  
NOT TO SCALE

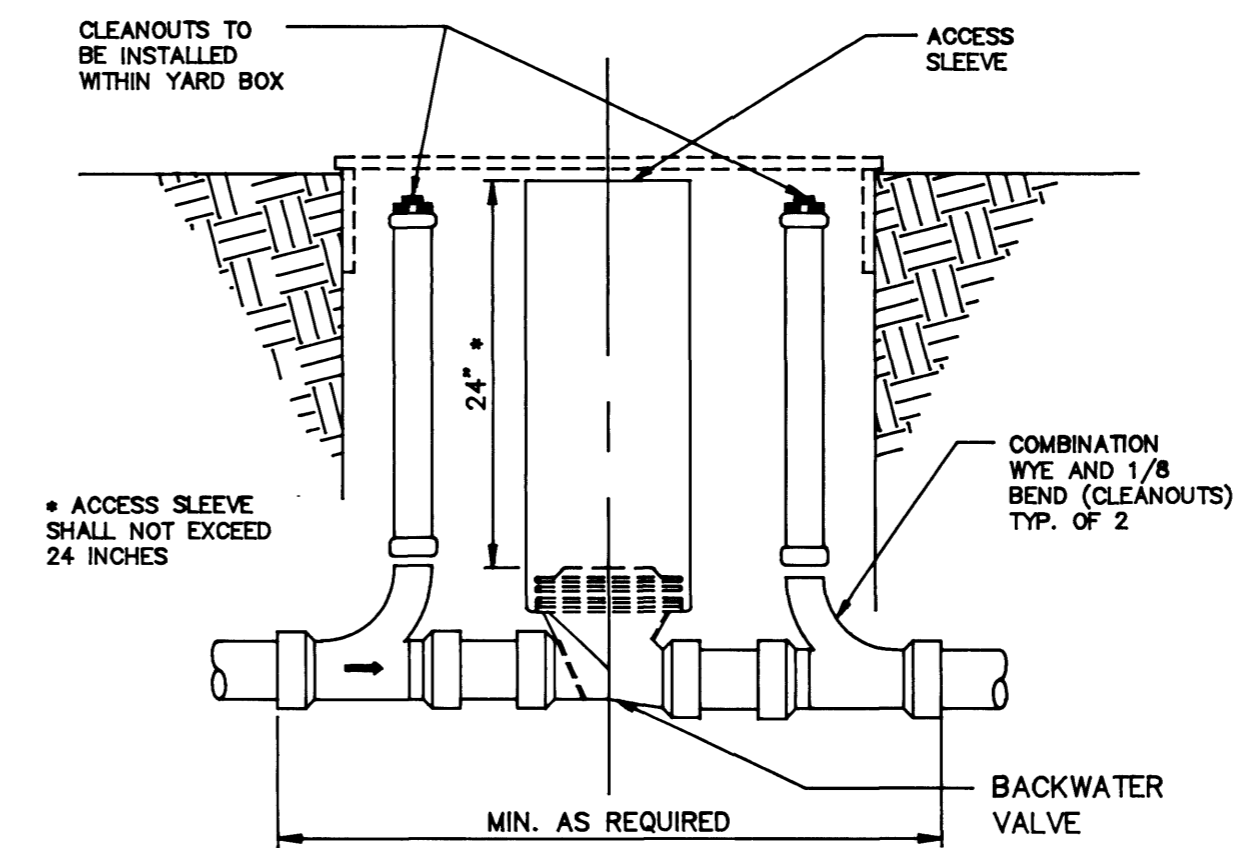
EVALUATION OF GRADING QUANTITIES

USING A SHRINKAGE FACTOR OF 20%, AND A SUBSIDENCE OF 0.25', AN ESTIMATE FOR THE GRADING IS SHOWN BELOW. PLEASE NOTE THAT THESE QUANTITIES ARE ESTIMATES ONLY. A DIFFERENT FIELD CONDITION WILL YIELD A DIFFERENT QUANTITIES.

	CUT	FILL
COMPUTED VOLUME	4,850	7,121
SUBSIDENCE	- 484	- 1,129
SUB-TOTAL	4,366	6,000
SHRINKAGE (20%)	-	1,650
TOTAL	4,366	9,900
IMPORT	5,534	C.Y.

TO SATISFY THE INTENT OF THE 1994 UNIFORM PLUMBING CODE, SUBSECTIONS 710.1 AND 710.6 FOR RESIDENTIAL BACKWATER VALVES, LOCAL BUILDING DEPARTMENTS INDICATE IN AN OCT. 24, 1996 JOINT LETTER OF AGREEMENT:

"DRAINAGE PIPING SERVING FIXTURES WHICH HAVE FLOOD LEVEL RIMS LOCATED BELOW THE ELEVATION OF THE NEXT UPSTREAM MANHOLE COVER OF THE PUBLIC OR PRIVATE SEWER SERVING SUCH DRAINAGE PIPING SHALL BE PROTECTED FROM BACKFLOW OF SEWAGE BY INSTALLING AN APPROVED TYPE BACKWATER VALVE. ALL FIXTURES LOCATED WITHIN THE DWELLING UNIT MAY DISCHARGE THROUGH A SINGLE BACKWATER VALVE, PROVIDED THAT APPROVED TYPE CLEANOUTS ARE LOCATED IMMEDIATELY UPSTREAM AND DOWNSTREAM OF THE BACKWATER VALVE. BACKWATER VALVES SHALL BE LOCATED WHERE THEY WILL BE ACCESSIBLE FOR INSPECTION AND REPAIR AT ALL TIMES. THE ACCESS SLEEVE SHALL NOT EXTEND MORE THAN 24" FROM THE TOP OF THE VALVE COVER TO THE TOP OF THE SLEEVE CAP. ALL BACKWATER VALVES LOCATED 24" OR LESS WILL NOT REQUIRE AN ACCESS BOX. THE BACKWATER VALVE MAY BE INSTALLED A MAXIMUM OF 36" BELOW GRADE PROVIDED AN ACCESS BOX WITH MINIMUM DIMENSIONS OF 14" IN WIDTH BY 23" IN LENGTH MEASURED FROM INSIDE EDGE TO INSIDE EDGE IS USED AND THE MINIMUM DEPTH OF THE BOX IS 12". ALL BACKWATER VALVES LOCATED DEEPER THAN 36" SHALL BE MADE ACCESSIBLE BY USE OF A YARD BOX OR VAULT SIZED LARGE ENOUGH TO PERMIT A PERSON TO ENTER THE BOX FOR THE PURPOSE OF ACCESSING THE BACKWATER VALVE."



NOTES:

- 36" MAX. DEPTH WITH BOX - MIN. DIMENSION 14"x23"x12" IN DEPTH. IN DEPTH.
- VALVE LOCATED DEEPER THAN 36" SHALL BE SIZED TO PERMIT PERSON TO ENTER BOX.
- REMOVE VALVE ASSEMBLY TO CLEAN OUT BEHIND CLAPPER.
- TO BE INSTALLED BY ONSITE PLUMBING CONTRACTOR.

Avoid cutting underground utility lines. It's costly.  
**Call before you Dig.**  
1-800-227-2600  
UNDERGROUND SERVICE ALERT (USA)

**BENCHMARK**  
BENCHMARK NO. 1LV90 33N4, RIVET AND PLATE IN TOP OF CURB, SOUTHEAST CORNER OF ANN ROAD AND CIMARRON ROAD.  
ELEVATION = 2402.730 FEET (1988 DATUM)  
733.0870 METERS

REV.	DATE	DESCRIPTION
1	1/25/01	
2	3/794	

RECOMMENDED: [Signature]  
LEONARDO V. DELUNA R.E. NO. 3794

**DeLUNA, INC.**  
ENGINEERING • PLANNING • SURVEYING  
4511 W. CHEYENNE AVE., STE. 101, N. LAS VEGAS, NEV. 89032, (702) 255-8242

SHEET CONTENTS:  
LONE MOUNTAIN MEETINGHOUSE  
LAS VEGAS, NEVADA LONE MOUNTAIN STAKE  
MISC. GRADING DETAILS

SHEET 8  
OF 8 SHEETS

0107MGD

42305

107-13593