

- GENERAL NOTES
- Contractor shall provide all necessary horizontal and vertical transition between new construction and existing surfaces, to provide for proper drainage and of ingress and egress to said construction, extent of transitions to be determined by City Engineer.
  - Existing utilities are located on plans for the convenience of the Contractor only, the Contractor shall bear full responsibility for the protection of utilities, and the Engineer bears no responsibility for utilities not shown on plans or not in the location shown on the plans.
  - Construction to be per Uniform Standard Specifications and Drawings, City of Las Vegas, Nevada, 1978 EDITION.
  - Construction Survey: Grades are given from top of stakes or nails. The Contractors are cautioned to observe the following rule in using the grade stakes given by this office for putting in curbs or sewers: Three consecutive points that are shown to be on the same rate of slope must be used in common in order that any variation out of a perfect straight grade may be detected, and in case any such discrepancy is found, the same must be reported, otherwise this office will not be responsible for any error in the grade of the finish work.
  - USE TYPE I CONCRETE IN ALL OFFSITE CONCRETE WORK.
  - CHISEL S.W. & G. WHERE THESE LINES PASS UNDER THE CURB.
- Housing services shall comply with the western plumbing code as to separation distance.
  - All houses to be served individually as per Section 313 of the Uniform Plumbing Code.
  - Concrete collars required around water valves and manhole covers AT GRADE OF PAVED AREAS.

STREET LIGHTING NOTES  
STREET LIGHTING SPECIFICATIONS  
240 VOLT SINGLE PHASE TWO WIRE SYSTEM

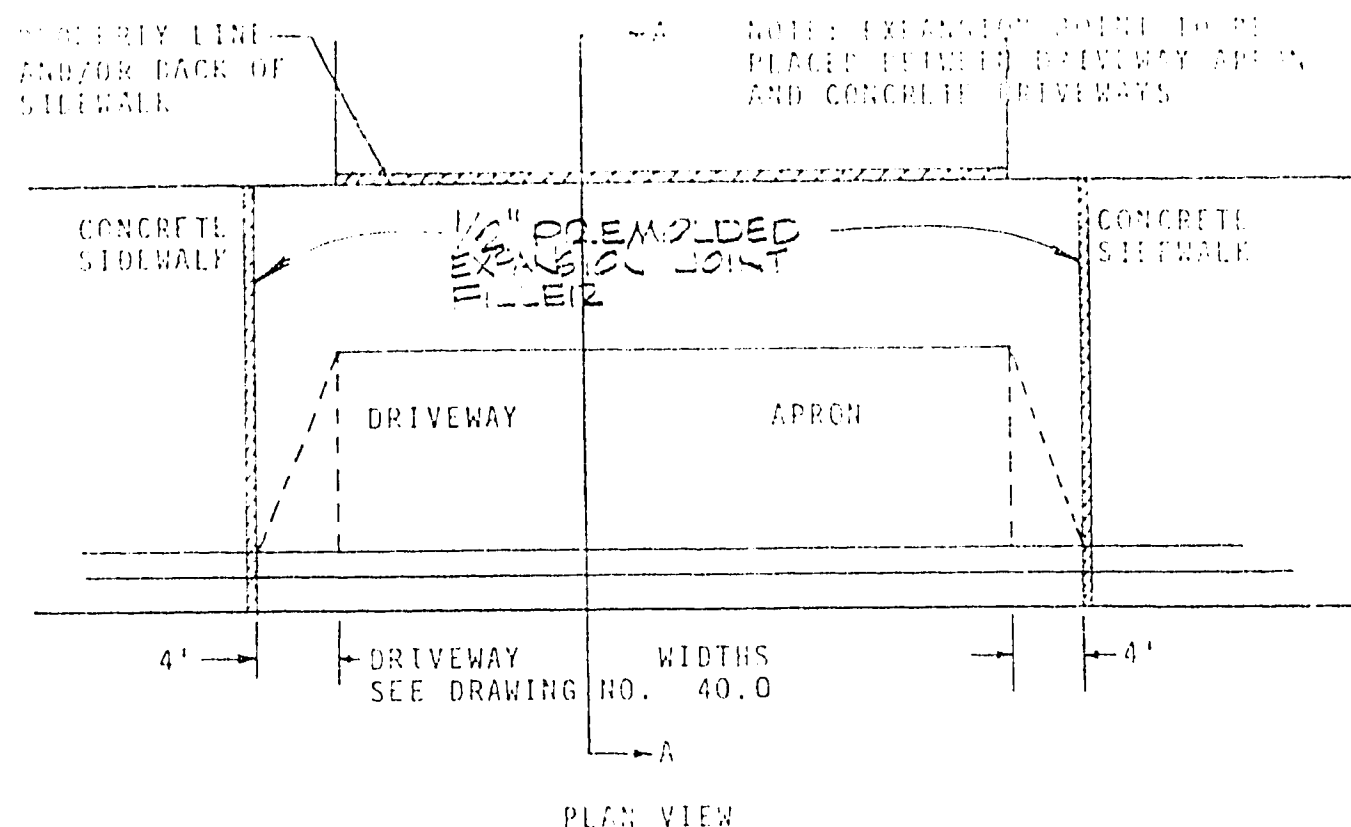
- UNDERGROUND
- Street Lighting Standards shall be as shown by Drawing No. 400.1 page 46 of Uniform Standard Drawings and must conform to Sections 400 and 405 and any other applicable sections of the Uniform Standard Specifications.
  - On 80' R/W Streets there shall be 2 poles on diagonal corners.
  - On 100' R/W Streets there shall be one pole at each corner.
  - High Pressure Sodium Luminaires, to be used on 51' R/W and 60' R/W streets, shall be 100 watt, 240 volt 1.1.5. distribution type 3, with integral constant wattage ballasts, similar to General Electric Type M250A catalogue #C2286584 or approved equal.
  - High pressure Sodium Luminaires, to be used on 80' R/W streets and over, shall be 250 Watt 240 Volt, 1.1.5. distribution type 3 with integral constant wattage ballast similar to General Electric Type M-400A, Catalog #C2246804 or approved equal.
  - 100 Watt High Pressure Sodium Lamps shall be Sylvania 10100 or approved equal.
  - 250 Watt High Pressure Sodium Lamps shall be Sylvania 10250 or approved equal.
  - Photo Cell and Control to be 120 Volts. Fisher-Pierce 6660 or approved equal.
  - Spacing of Standards shall be 180 feet maximum on 51' R/W and 60' R/W streets on one side.
  - Spacing of standards shall be 180 feet maximum on 80' R/W streets on each side and staggered.
  - Spacing of standards on 100' R/W streets or more shall be 120 feet maximum on each side and staggered.
  - All standards to be set 18" back of curb.
  - 5/8" 40 Rigid Non Metallic Conduit (PVC) or approved equal complying with Article 347 of the National Electrical Code may be used for underground applications and to be within 12" back of curb and 24" cover.
  - Fuse Holders and Connectors shall be installed in the bases of all Lighting standards, the fuse holders shall be Buss-Iron-flex-AA, with rubber boots.
  - Base covers for lighting standards are not to be installed before breakout caps are placed and inspected. All material used in underground wiring, in breakout caps and under base covers to be inspected before installation.
  - Foundations shall be constructed and located to line and grade as directed by the field engineer.
  - Lighting Standard and Mast Arm Cable to luminaire shall be 10/2 U.F. Type 600 Volt copper cable.
  - The Contractor shall be responsible for avoiding damage to property, either public or private and in the event of such damage, shall make satisfactory repairs at his own expense.
  - The Contractor shall furnish complete service to transformers and control systems, if required.
  - The Service Point standard is to be installed at the approved location shown on plans and to conform to drawing #401.1 page 44 of the Uniform Standard Drawings.
  - In the selection of 100 and 250 Watt High Pressure Sodium Luminaires to be used in a particular development one approved manufacturer shall be specified.
  - These specifications to become effective on all City of Las Vegas Multiple Street Lighting Designs approved on or after June 1, 1977.
  - These specifications shall be superseded by any revised specifications in existence at the time of installation.

**BENCH MARK**

C.L.V. B.M. #481

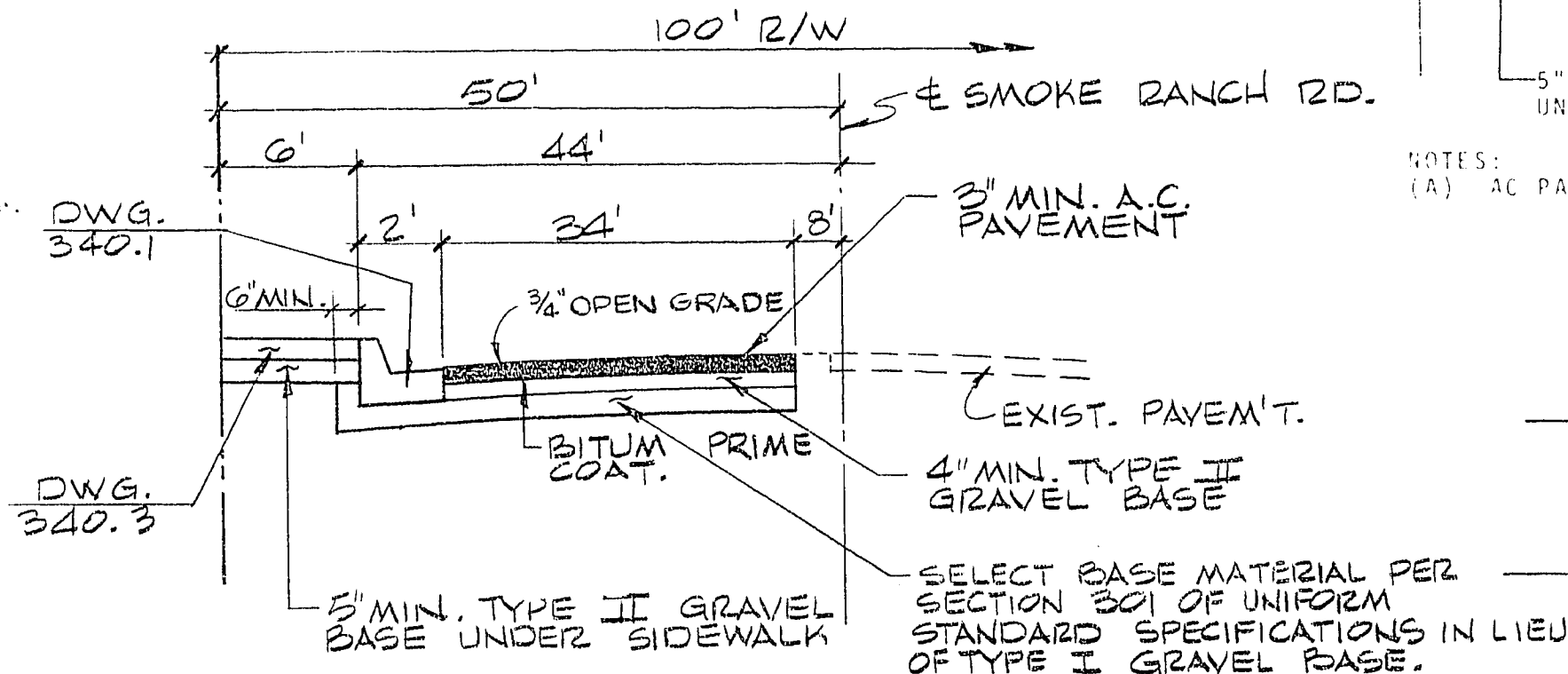
Concrete Monument with Metal Plate 200' ± South and 50' ± West from the intersection of Torrey Pines and Smoke Ranch Road.

Elevation = 2293.562

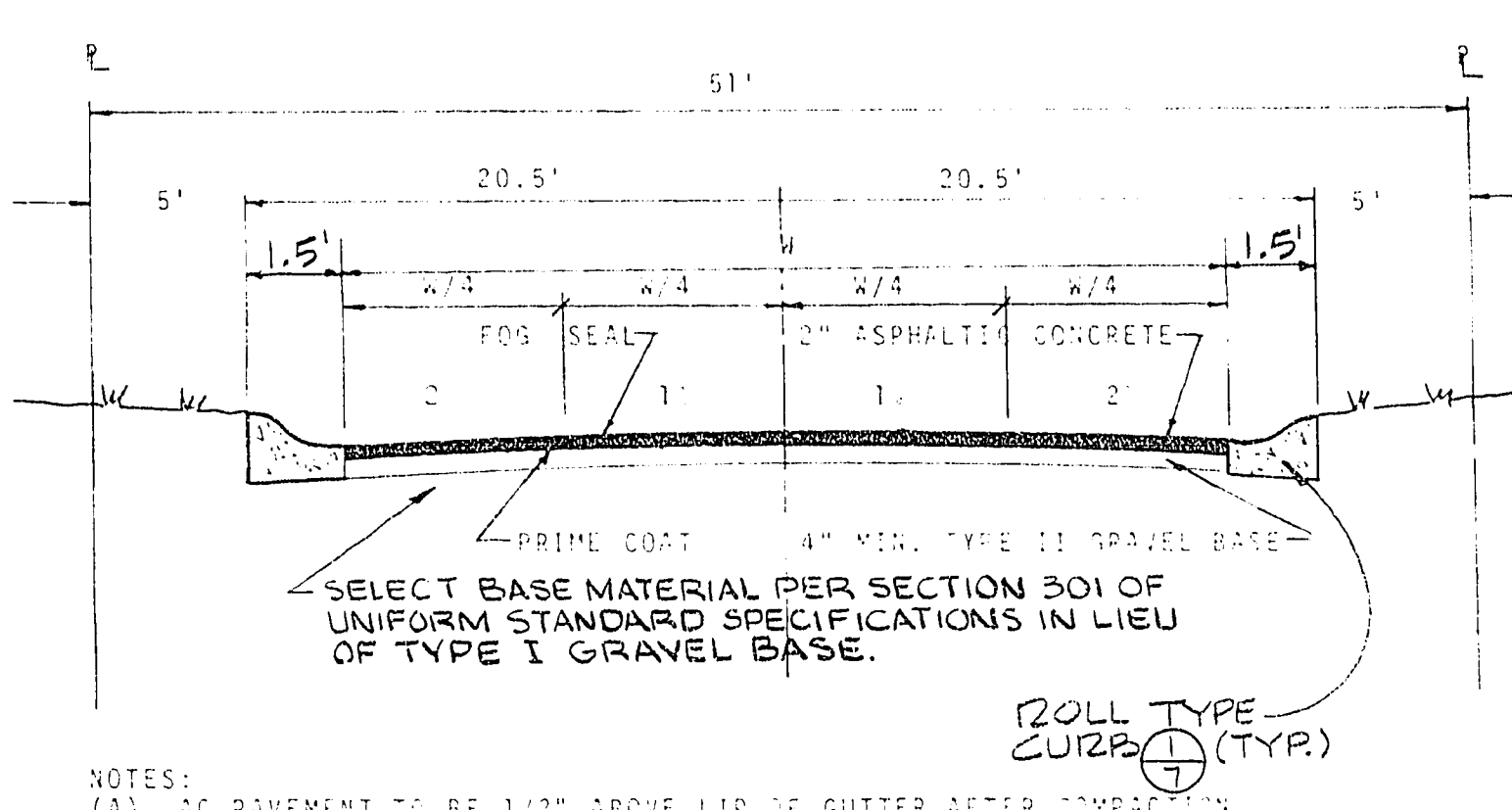


**TYP. DRIVEWAY DETAIL**

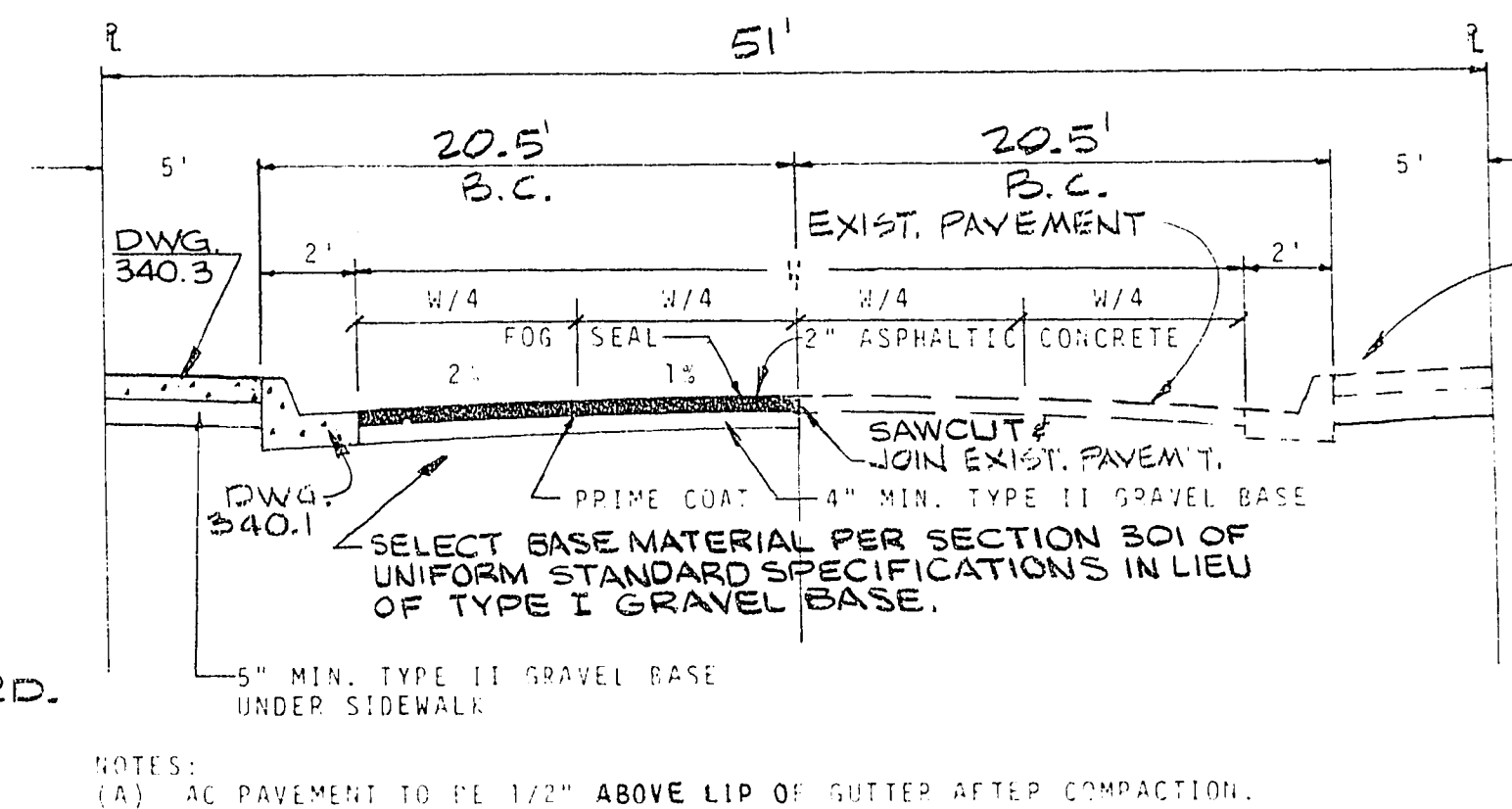
NOTE: EXPANSION JOINTS REQ'D, MAXIMUM EVERY 300' IN EXTRUDED TYPE CURB.



**TYP. SMOKE RANCH RD. SECTION**



**TYPICAL 51' R/W STREET  
FOR DECASTA CIRCLE**



**TYPICAL 51' R/W STREET  
FOR SANTA MARIA AVE.  
ESTIMATE OF QUANTITIES**

STREET IMPROVEMENTS

|                        |       |      |
|------------------------|-------|------|
| 2" A.C. Pavement       | 7,392 | S.Y. |
| 3" A.C. Pavement       | 2,401 | S.Y. |
| "L" Type Curb & Gutter | 1,375 | L.F. |
| 5' Concrete Sidewalk   | 3,384 | S.F. |
| 6' Concrete Sidewalk   | 3,605 | S.F. |
| 18" Roll Type Curb     | 2,583 | L.F. |
| Alley Gutter           | 201   | S.F. |

WATER

|                                      |     |      |
|--------------------------------------|-----|------|
| STD. F.H. w/6" G.V. & 6" A.C.P. LAT. | 3   | Ea.  |
| 4" A.C.P.                            | 689 | L.F. |
| 6" A.C.P.                            | 722 | L.F. |
| 6" Gate Valve                        | 1   | Ea.  |
| 3/4" Service                         | 60  | Ea.  |
| 5/8" Meter Box                       | 60  | Ea.  |
| 2" Blow-Off Assembly                 | 3   | Ea.  |

SEWER

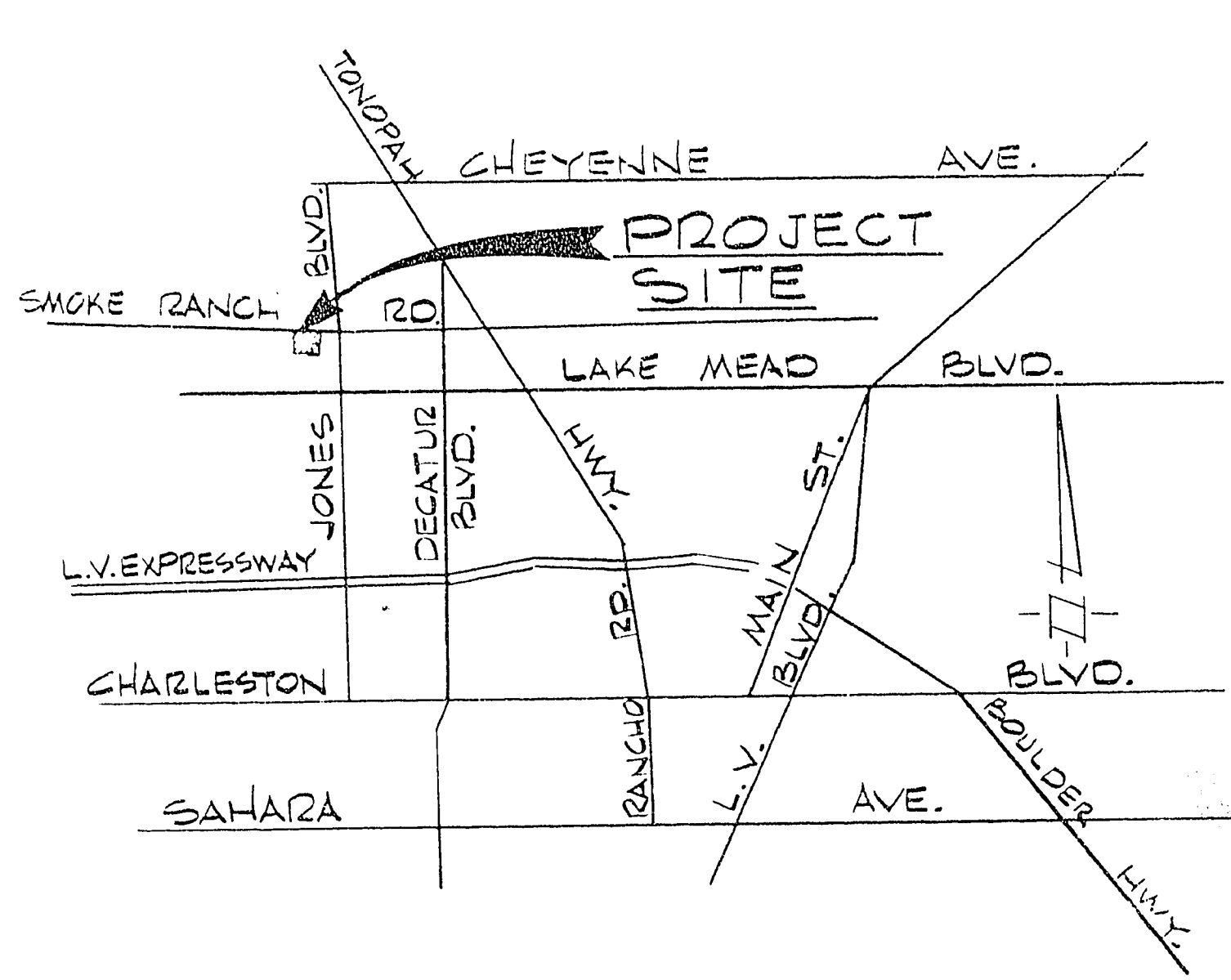
|                    |       |      |
|--------------------|-------|------|
| Standard Manhole   | 3     | Ea.  |
| 8" V.C.P.          | 1,185 | L.F. |
| 4" V.C.P. Laterals | 1,775 | L.F. |

STREET LIGHTS

|                                                                |       |      |
|----------------------------------------------------------------|-------|------|
| 100 w. Luminaire w/11 GA. Pole                                 | 9     | Ea.  |
| 250 w. Luminaire w/11 GA. Pole                                 | 4     | Ea.  |
| 1 1/4" P.V.C.                                                  | 1,985 | L.F. |
| 100 w. & 250 w. Luminaire w/Double Davit Lt. STD. w/7 GA. Pole | 1     | Ea.  |

MISCELLANEOUS

|                                             |     |      |
|---------------------------------------------|-----|------|
| Excavation                                  |     |      |
| 6' Concrete Block Wall                      | 703 | L.F. |
| Conc. Valley Gutter (10' drainage easement) | 216 | S.F. |
| Wrought Iron Fence & Gate                   | 3   | Ea.  |
| Stop & Street Sign                          | 2   | Ea.  |
| Street Sign                                 | 1   | Ea.  |
| Remove A.C. Pavement                        | 223 | S.Y. |
| 2" Temporary Pavement                       | 236 | S.Y. |



**VICINITY MAP**

**INDEX OF DRAWINGS**

| NO. | TITLE                          |
|-----|--------------------------------|
| 1   | COVER SHEET                    |
| 2   | PLAT MAP                       |
| 3   | QUANTITIES, GEN. NOTES & MISC. |
| 4   | UTILITY PLAN                   |
| 5   | SMOKE RANCH ROAD               |
| 6   | SANTA MARIA AVE.               |
| 7   | DECASTA CIRCLE                 |
| 8   | EL MOLINO CIRCLE               |
| 9   | EL CEBRITO CIRCLE              |
| 10  | GRADING PLAN                   |

APPROVALS:

*For William J. Davis* 11/2/78  
CITY ENGINEER DATE

*Robert J. Weber* 11-1-78  
FIELD ENGINEER DATE

*MB*  
QUALITY CONTROL ENGINEER DATE

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THESE PLANS AND/OR SPECIFICATIONS COMPLY WITH F.H.A. OBJECTIVES, MINIMUM PROPERTY STANDARDS AND NEIGHBORHOOD REQUIREMENTS AND REPRESENTS THE BEST OF MY JUDGEMENT.

*Leonardo V. Deluna* 9/29/78  
LEONARDO V. DELUNA, RPE # 3704 DATE

RECOMMENDED BY: 3194 9/29/78  
DATE: 9/29/78  
R.E. NO. 704E

**G. C. WALLACE**  
Consulting Engineers, Inc.  
1100 East Sahara Ave. • Las Vegas, Nevada 89104 • 732-3330

BECKER & SONS  
CHARLESTON HEIGHTS — TRACT NO. 51-A2  
QUANTITIES, GENERAL NOTES & MISC.

SHEET  
**3**  
OF 10 SHEETS