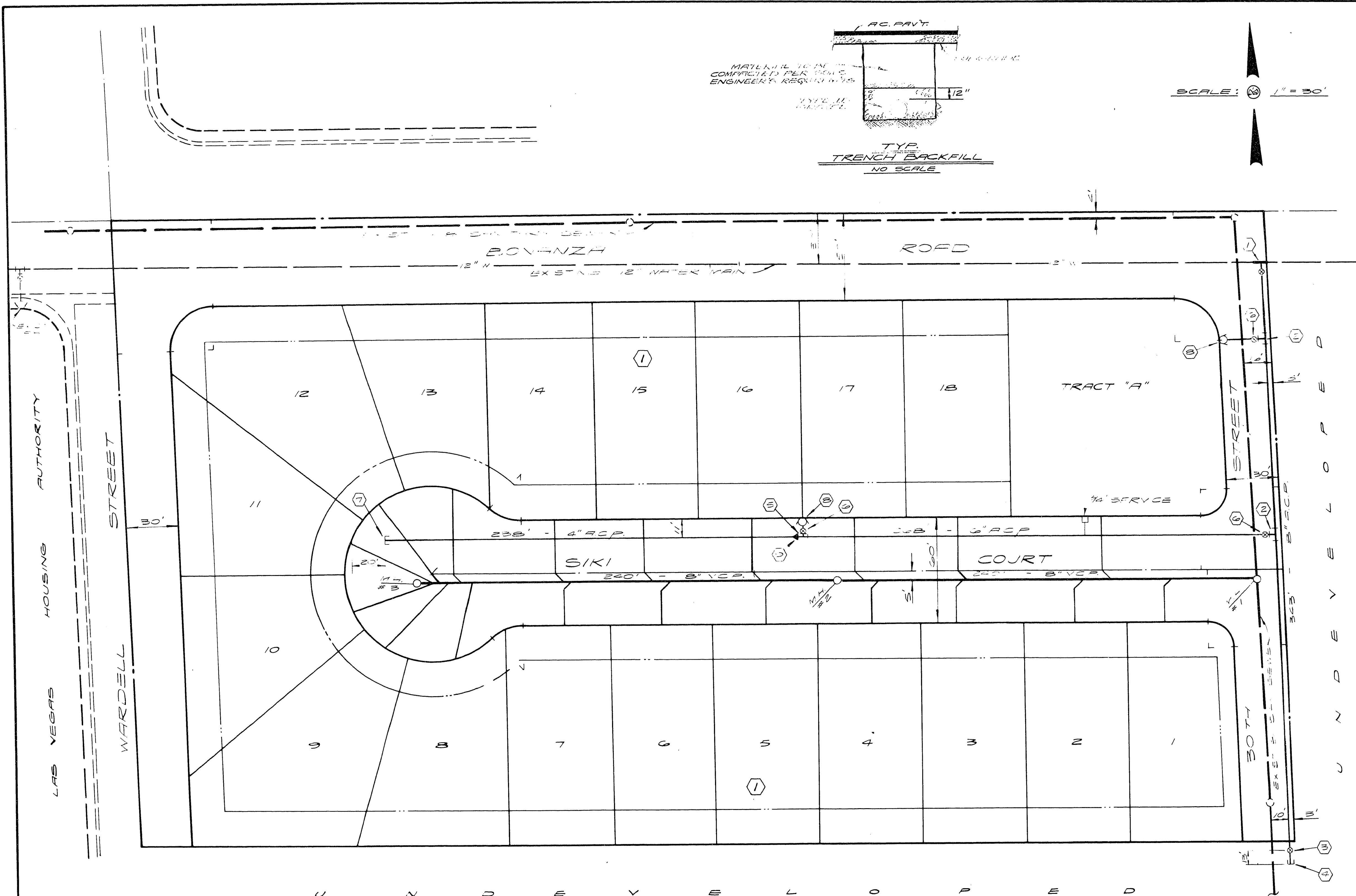




- LAS VEGAS VALLEY WATER DISTRICT GENERAL NOTES**
1. ALL WORK TO CONFORM TO LAS VEGAS VALLEY WATER DISTRICT STANDARD PLATES.
 2. ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE NO. 1 SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS CLARK COUNTY AREA.
 3. NOTICE TO BE GIVEN ENGINEERING DEPARTMENT OF THE LAS VEGAS VALLEY WATER DISTRICT 48 HOURS PRIOR TO ACTUAL CONSTRUCTION.
 4. SERVICE SADDLES OR TAPPED COLLARS WILL BE REQUIRED ON ALL SERVICES; DOUBLE TAP COLLARS ARE NOT PERMITTED.
 5. ALL LINES TO BE PRESSURE TESTED TO 200 PSI.
 6. ALL VALVE BOXES SHALL HAVE CONCRETE COLLARS AT SURFACE OF PAVED AREAS.
 7. DEFLECTION ANGLE SHALL NOT EXCEED 2 1/2 DEGREES PER 13 FOOT SECTION OF PIPE FOR PIPE SIZES SMALLER THAN 14 INCHES, AND SHALL NOT EXCEED 2 DEGREES FOR PIPE SIZES BETWEEN 14" AND 16".
 8. ALL METERS SHALL BE LOCATED OUTSIDE OF DRIVEWAYS.
 9. NO OTHER UTILITY LINES MAY BE PLACED IN THE SAME TRENCH WITH WATER LINE.
 10. DETECTOR TAPE REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. 27 WHERE INDICATED AND AS FOLLOWS:
 (A). OVER ALL MAINS NOT INSTALLED AT 6 FEET FROM BACK OF CURB.
 (B). OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAINS.

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.

Use Type V cement in all offsite concrete work.

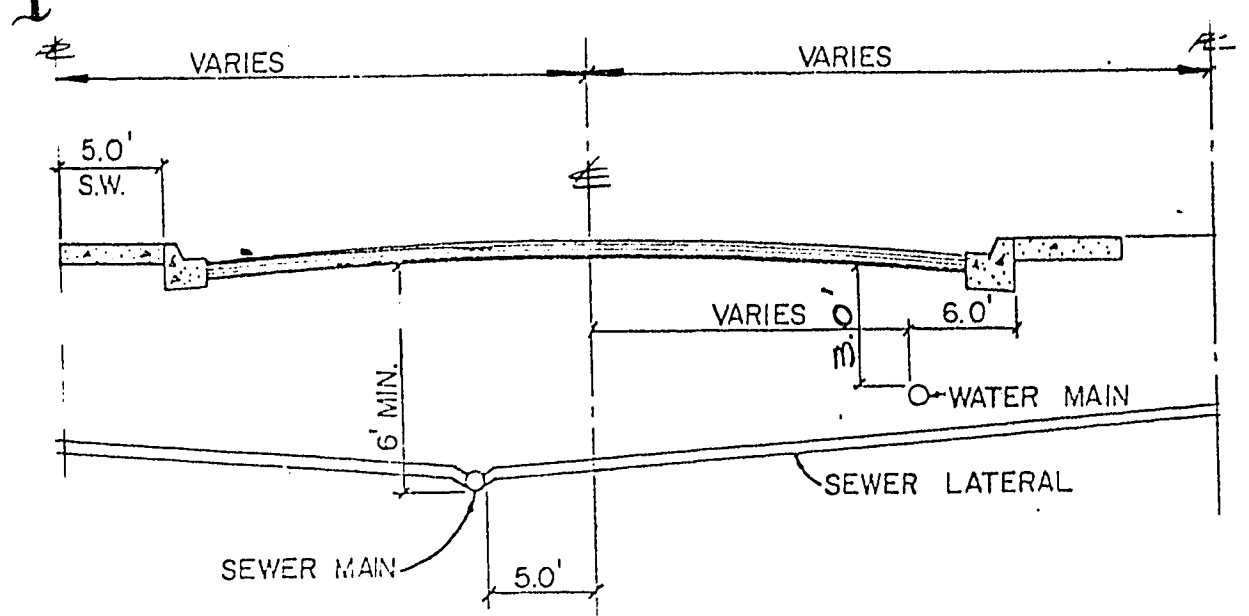
Chisel S. & G. where those lines pass under the curb.

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 surface of paved areas.

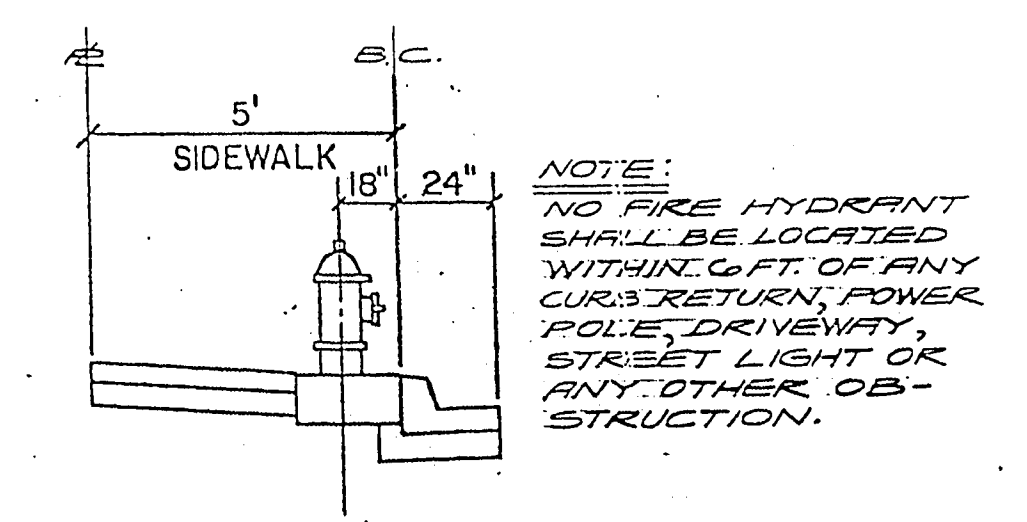
- SANITARY SEWER GENERAL NOTES**
1. HOUSE SERVICES SHALL COMPLY WITH WESTERN PLUMBING CODE AS THE SEPARATION DISTANCE.
 2. ALL HOUSES TO BE SERVED INDIVIDUALLY AS PER SECTION 313 OF THE UNIFORM PLUMBING CODE.



TYPICAL STREET SECTION
NO SCALE

LEGEND & QUANTITY ESTIMATE

WATER		SEWER	
① - 8" GATE VALVE	1 EA.	8" VCP MAIN	480 L.F.
② - 8" x 6" x 6" TEE	1 EA.	6" VCP LATERALS	700 L.F.
③ - 8" GATE VALVE	1 EA.	STD. MANHOLE	3 EA.
④ - 8" PLUG W/ 2" BLOW-OFF	1 EA.		
⑤ - 6" TEE	1 EA.		
⑥ - 6" GATE VALVE	3 EA.		
⑦ - 4" PLUG W/ 2" BLOW-OFF	1 EA.		
⑧ - STD. FIRE HYDRANT	2 EA.		
⑨ - 6" x 4" REDUCER	1 EA.		
8" A.C.P. MAIN	343 L.F.		
6" A.C.P. MAIN	208 L.F.		
4" A.C.P. MAIN	238 L.F.		
1" SERVICE	18 EA.		
1" METER	18 EA.		
3/4" SERVICE	1 EA.		
3/4" METER	1 EA.		



STANDARD FIRE HYDRANT LOCATION

APPROVALS:

for *William H. Smith* 11-2-78
 CLV. CITY ENGINEER DATE

R. G. G.
 CLV. SANITATION ENGINEER DATE

Robert D. Weber 11-2-78
 CLV. FIELD OPERATIONS ENGR DATE

E. J. Williams 11-2-78
 CLV. QUALITY CONTROL ENGR. DATE

Harold T. 11-2-78
 CLV. FIRE MARSHALL DATE

Harold Vard Wren 11-29-78
 LAS VEGAS VALLEY WATER DISTRICT DATE

SUBMITTED BY:
George A. Smith 10-2-78
 GEORGE A. SMITH & CO.
 NEVADA CERT. NO. 3878 DATE

BONANZA HEIGHTS
SEWER & WATER PLAN
 GEORGE A. SMITH & CO.
 2201 N. WILLOW AVE.
 LAS VEGAS, NEVADA 89102
 (702) 466-1200
 021-001-10
 SHEET 7 OF 8

20-6-100 3078.915-1