CONSTRUCTION DATA

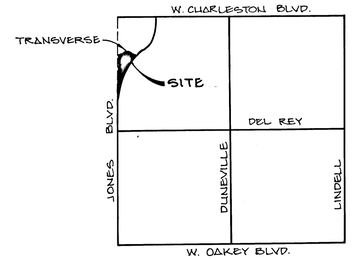
CONSTRUCTION TYPE - 5N
OCCUPANCY - B2
FIRE FLOW- 2025 G.P.M.@ 20 P.S.I.

FIRE DEPARTMENT NOTES:

1. All work shall be done in strict Accordance with the City of Las Vegas Fire Department "Hydrant Specifications", "Hydrant Installation Specifications" and Ordinance #3318.
2. Authorized hydrants for this project are:
   A - Kennedy Guardian
   B - Mueller A-423 Centurian
   C - Clow Model 2546 Medallian
3. On any new home or building construction, accessible fire hydrants shall be installed before conbustible construction commences and said fire hydrants shall be in good working order with an adequate water supply.
4. Contractor shall place a green reflective marker at centerline of street adjacent to fire hydrant.
5. Call the Las Vegas Fire Department at 383-2888 for underground inspection, pressure and flush verification of all fire hydrants and fire lines before covering.
6. Painting of the curbs and hydrant and any work necessary for protetection of hydrants from physical damage per Ordinance #3318 shall be completed before approval by the City of Las Vegas Fire Department.
7. A permit is required from the Fire Department for water line and fire hydrant installations on the private side of the meter.
8. A flow test must be witnessed by the Fire Department for verification of on-site water supply.
9. All on-site fire main materials must be U.L. listed and F.M. approved.
10. Fire hydrant spacing:
    Residential - 500 ft. Maximum
    Commercial, including multi-family - 500 ft. Maximum
11. No fire hydrant shall be located within the required radius of a cul-de-sac or within 20 ft. of the perimeter of the radius of the cul-de-sac.
12. No fire hydrant shall be located within 6 ft. of any curb return, driveway, power pole, street light or any other construction.
13. Ensure that fire hydrants are connected to a dependable water supply capable of supplying the required fire flow.
14. SIGNS SHALL BE PROVIDED TO DESIGNATE FIRE LANE NO PARKING. SPACING SHALL BE IN ACCORDANCE WITH CITY OF LAS VEGAS FIRE DEPARTMENT STANDARDS

LAS VEGAS VALLEY WATER DISTRICT

1. ALL WORK TO CONFORM TO LAS VEGAS VALLEY WATER DISTRICT LATEST STANDARD PLATES AND SPECIFICATIONS.
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 ON TAPPED COLLARS WILL BE REQUIRED ON ALL 3/4" AND 1" SERVICE LATERALS. SERVICE SADDLES ONLY WILL BE PERMITTED ON 1½" AND 2" SERVICE LATERALS. DOUBLE TAPPED COLLARS ARE NOT PERMITTED.
5. ALL LINES TO BE PRESSURE TESTED TO 200 PSI.
6. DEFLECTION ANGLE SHALL NOT EXCEED 2½ DEGREES PER 13 FOOT SECTION OF PIPE FOR PIPE SIZES SMALLER THAN 14 INCHES, AND SHALL NOT EXCEED 2 DEGREES FOR PIPE SIZED BETWEEN 14" AND 16".
7. ALL HETERS SHALL BE LOCATED OUTSIDE OF DRIVEWAYS.
8. 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.
9. CALL BEFORE YOU DIG - 1-800-227-2600.



VICINITY MAP
SEC.1, T.21S., R.60E.

ONSITE PAVING DETAIL

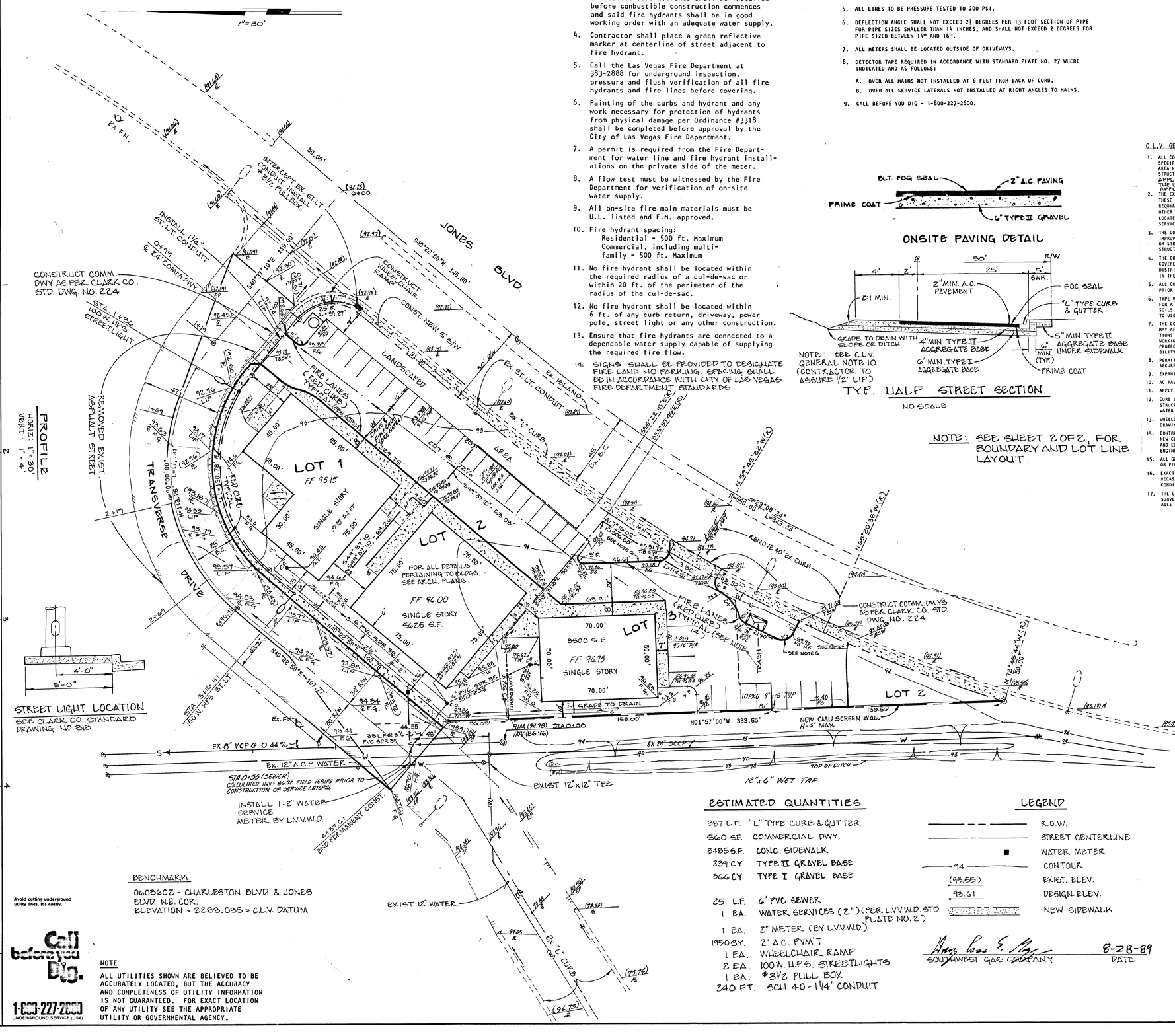
NOTE: SEE C.L.V. GENERAL NOTE 10 (CONTRACTOR TO ASSURE 1/2" LIP)

TYP. HALF STREET SECTION
NO SCALE

NOTE: SEE SHEET 2 OF 2, FOR BOUNDARY AND LOT LINE LAYOUT.

C.L.V. GENERAL NOTES:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST ISSUE; ANY OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY AND ORDINANCES APPLICABLE.
2. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE DRAWINGS. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS ARE NOT SHOWN ON THE PLANS.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED SATISFACTORY TO THE OWNER AT THE EXPENSE OF THE CONTRACTOR.
4. THE CONTRACTOR SHALL NOT BACKFILL ANY TRENCHES IN WHICH WATERLINES HAVE BEEN UNCOVERED UNTIL THE WATERLINES HAVE BEEN INSPECTED BY THE LAS VEGAS VALLEY WATER DISTRICT. THE WATER DISTRICT SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF CONSTRUCTION IN THE VICINITY OF WATER LINES.
5. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY ALTERATIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
6. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE DESIGNED FOR A 5.5 SACK MIX WITH A MAXIMUM WATER/CEMENT RATIO OF 0.45 (OR AS DESIGNED BY THE SOILS ENGINEER). MIX DESIGN TO BE APPROVED BY THE QUALITY CONTROL DIVISION PRIOR TO USE ON THE PROJECT.
7. THE CONSTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER AND/OR TELEPHONE FACILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COSTS AND LIABILITY IN CONNECTION THEREWITH.
8. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
9. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED TYPE CURB.
10. AC PAVEMENT TO BE 1" ABOVE LIP OF ALL GUTTERS & VALLEY GUTTER AFTER COMPACTION.
11. APPLY FOG SEAL ONLY AFTER ALL CORRECTIONS & ADJUSTMENTS HAVE BEEN MADE.
12. CURB & GUTTER WITH A GRADE OF LESS THAN FOUR TENTHS OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
13. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
14. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO SAID CONSTRUCTION. EXTENT OF TRANSITIONS TO BE DETERMINED BY THE CITY ENGINEER AND AS SHOWN ON PLANS.
15. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE SOILS ENGINEER OR PER THESE PLANS.
16. EXACT LOCATION OF ALL SAWCUT LINES MAY BE DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS INSPECTOR IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATION.
17. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORD WITH N.R.S. STATUTE No. 625.550.



ESTIMATED QUANTITIES

387 L.F.	"L" TYPE CURB & GUTTER
560 SF.	COMMERCIAL DWY.
3485 S.F.	CONC. SIDEWALK
239 CY	TYPE II GRAVEL BASE
366 CY	TYPE I GRAVEL BASE
25 L.F.	6" PVC SEWER
1 EA.	WATER SERVICES (2") (PER L.V.V.W.D. STD. PLATE NO. 2.)
1 EA.	2" METER (BY L.V.V.W.D.)
1950 SY.	2" A.C. PVM'T
1 EA.	WHEELCHAIR RAMP
2 EA.	100 W. H.P.S. STREETLIGHTS
1 EA.	#3½ PULL BOX
240 FT.	SCH. 40 - 1¼" CONDUIT

LEGEND

- R.O.W.
- STREET CENTERLINE
- WATER METER
- 94 — CONTOUR
- (93.55) — EXIST. ELEV.
- 93.61 — DESIGN. ELEV.
- NEW SIDEWALK

Gary Lee E. Hoy — 8-28-89
SOUTHWEST GAS COMPANY — DATE

BENCHMARK

060836CZ - CHARLESTON BLVD & JONES BLVD. N.E. COR.
ELEVATION = 2288.035 = C.L.V. DATUM

Avoid cutting underground utility lines. It's costly.

Call before you Dig.
1-800-227-2600
UNDERGROUND SERVICE (USA)

NOTE
ALL UTILITIES SHOWN ARE BELIEVED TO BE ACCURATELY LOCATED, BUT THE ACCURACY AND COMPLETENESS OF UTILITY INFORMATION IS NOT GUARANTEED. FOR EXACT LOCATION OF ANY UTILITY SEE THE APPROPRIATE UTILITY OR GOVERNMENTAL AGENCY.

KJB NEVADA
SURVEYING - ENGINEERING - PLANNING
3355 SPRING MOUNTAIN ROAD
SUITE 242
LAS VEGAS, NEVADA 89102
(702) 871-1378

GRADING, UTILITY, AND STREET PLAN
FOR
JONES PROFESSIONAL CENTER
A PORTION OF GOVERNMENT LOT 13, SEC. 1, T.21S, R.60E., MDM, CITY OF LAS VEGAS, NV.

PAUL S. SUTHERLAND — REGISTERED PROFESSIONAL ENGINEER — 5402 — 3/10/89 — STATE OF NEVADA
PAUL S. SUTHERLAND NEV PE 5402

APPROVALS:

CLV CITY ENGINEER	DATE 3-29-89
CLV TRAFFIC ENGINEER	DATE N/A
CLV LAND DEV. AND FLOOD CONTROL	DATE N/A
CLV ELECTRICAL SUPERVISOR	DATE N/A
CLV ELECTRICAL COORDINATOR	DATE N/A
NEVADA POWER COMPANY (Greg Fry)	DATE 3-28-89
CLV FIRE MARSHALL	DATE 8/15/89
LAS VEGAS VALLEY WATER DIST.	DATE 3/6/90

REVISIONS

NO	DATE	DESCRIPTION
1	JUN. 25,90	REMOVED DRIVEWAY & REVISED TRANSVERSE DR.
2	AUG 10,90	R/D CROSS GRD. OF TRANSVERSE DR.
3	AUG 15,90	EXT TO 1½ STREET DESIGN

DRAWN BY: JEB. SCALE: 1"=30'
DATE:
PROJECT NO. 88-88
SHEET NO. 1 OF 2

18-3-13
21-60
107-V1757