GENERAL NOTES

1. 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.
2. 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.
3. Construction to be per Uniform Standard Specifications and Drawings; City of Las Vegas, Nevada, latest edition.
4. 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 descrepancy is found, the same must be reported, otherwise this office will not be responsible for any error in the grade of the finish work.
5. Use Type V cement in all offsite concrete work.
6. Chisel S.W. & G. where these lines pass under the curb.
7. Housing services shall comply with the western plumbing code as to separation distance.
8. All houses to be served individually as per Section 313 of the Uniform Plumbing Code.
9. Concrete collars required around water valves and manhole covers at surface of paved areas.

STREET LIGHTING NOTES

STREET LIGHTING SPECIFICATIONS
240 VOLT SINGLE PHASE TWO WIRE SYSTEM

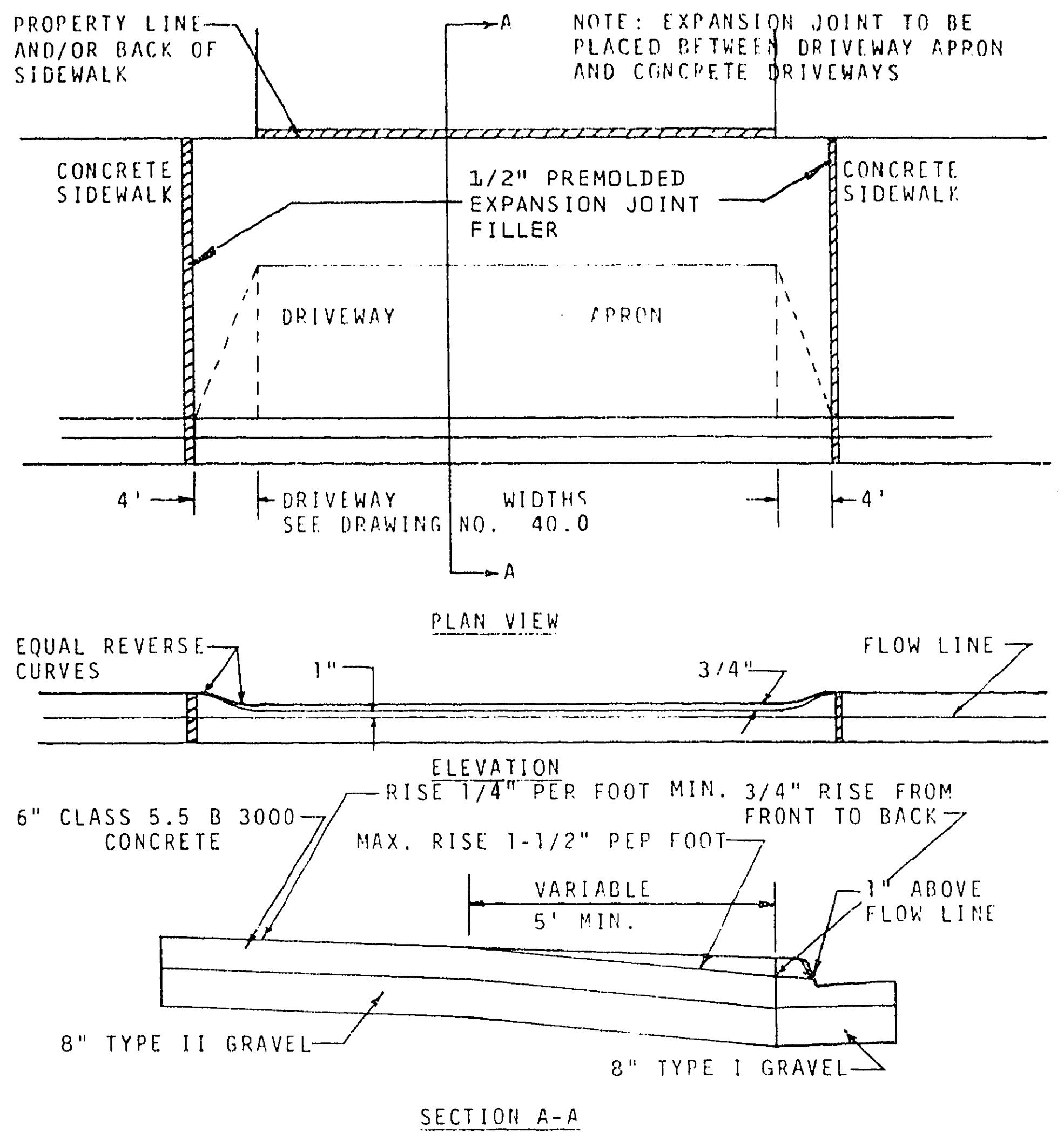
UNDERGROUND

1. Street lighting standards shall be as shown by Drawing No. 400.1 page 40 of Uniform Standard Drawings and must conform to Sections 400 and 405 and any other applicable sections of the Uniform Standard Specifications.
2. On 80' R/W Streets there shall be 2 poles on diagonal corners.
3. On 100' R/W Streets there shall be one pole at each corner.
4. High Pressure Sodium Luminaires to be used on 51' R/W and 60' R/W Streets shall be 100 watt, 240 volt I.E.S. distribution type 3, with integral constant wattage ballasts, similar to General Electric Type M250A catalogue #C728G584 or approved equal.
5. High Pressure Sodium Luminaires to be used on 80' R/W streets and over, shall be 250 Watt 240 Volt, I.E.S. distribution type 3 with integral constant wattage ballast similar to General Electric Type M-400A, Catalog #C724G804 or approved equal.
6. 100 Watt High Pressure Sodium Lamps shall be Sylvania LU100 or approved equal.
7. 250 Watt High Pressure Sodium Lamps shall be Sylvania LU250 or approved equal.
8. Photo Cell and Control to be 120 Volts. Fisher-Pierce 6660 or approved equal.
9. Spacing of Standards shall be 180 feet maximum on 51' R/W and 60' R/W streets on one side.
10. Spacing of standards shall be 180 feet maximum on 80' R/W streets on each side and staggered.
11. Spacing of standards on 100' R/W streets or more shall be 120 feet maximum on each side and staggered.
12. All standards to be set 18" back of curb.
13. Sch. 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.
14. Fuse Holders and Connectors shall be installed in the bases of all lighting standards, the fuse holders shall be Buss-Tron-Hex-AA, with rubber boots.
15. Base covers for lighting standards are not to be installed before breakout caps are placed and inspected. All materials used in underground wiring, in breakout caps and under base covers to be inspected before installation.
16. Foundations shall be constructed and located to line and grade as directed by the field engineer.
17. Lighting Standard and Mast Arm Cable to luminaire shall be 10/2 U.F. Type 600 Volt copper cable.
18. 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.
19. The Contractor shall furnish complete service to transformers and control systems, if required.
20. 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.
21. 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.
22. These specifications to become effective on all City of Las Vegas Multiple Street Lighting Designs approved on or after June 1, 1977.
23. These specifications shall be superseded by any revised specifications in existence at the time of installation.

BENCH MARK

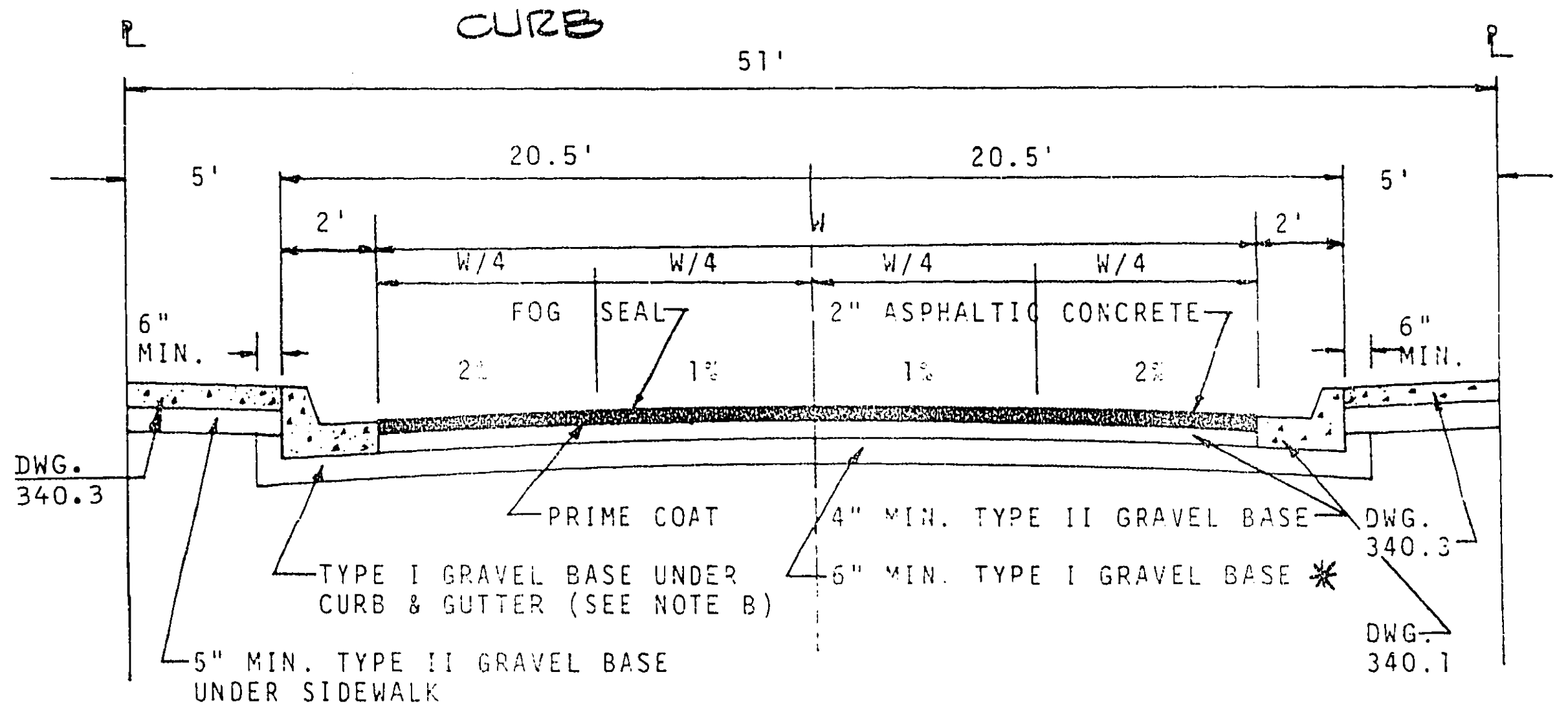
BOLT IN T.C., NW C.R. @ INT. OF MINNESOTA &
KANSAS
CLV BM. #06025 D-8
ELEV. 2217.13

5543.5130



TYPICAL DRIVEWAY DETAIL

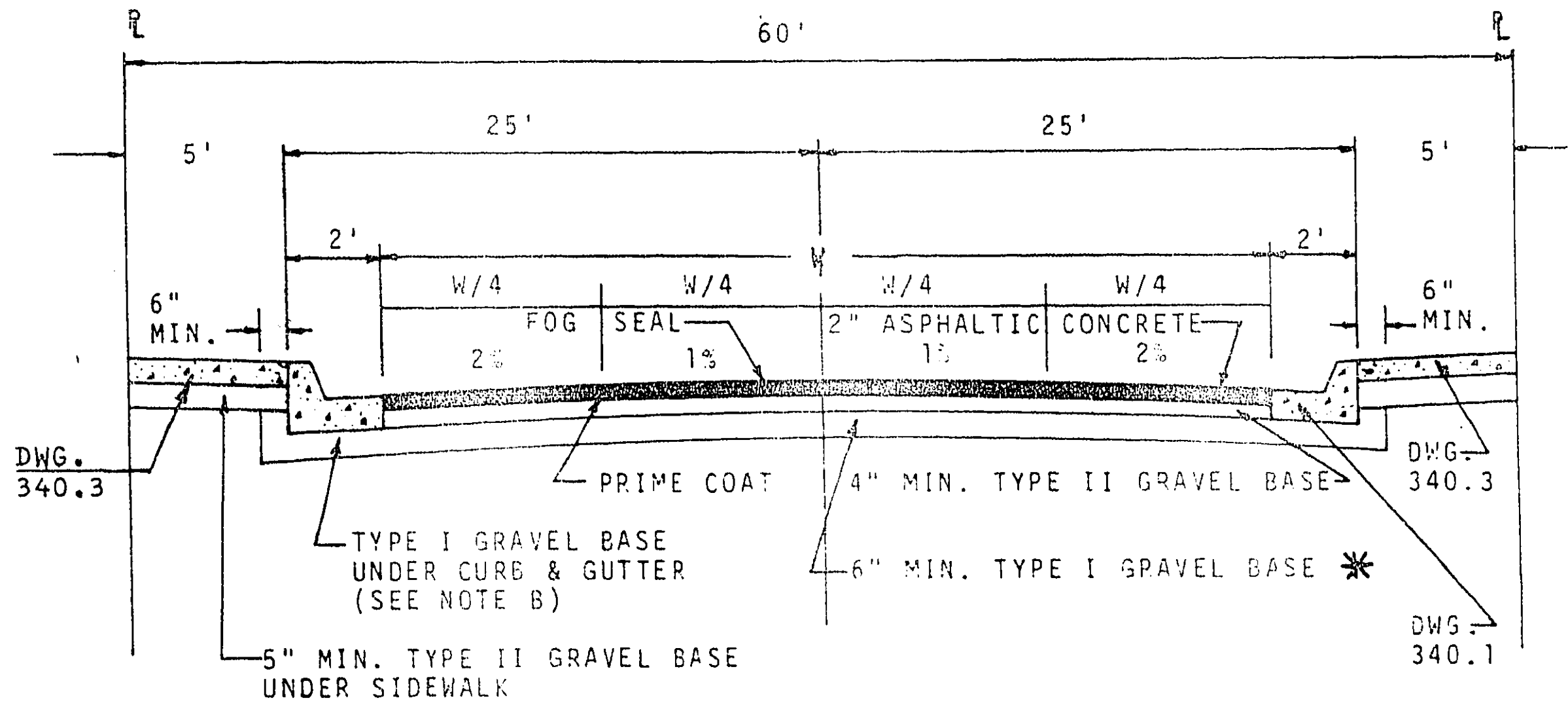
NOTE; EXPANSION JOINT REQUIRED EVERY 300' MAX, IN EXTRUDED CURB



NOTES:
(A) AC PAVEMENT TO BE 1/2" ABOVE LIP OF GUTTER & VALLEY GUTTER AFTER COMPACTION
(B) SUBGRADE FOR TYPE I UNDER CURB AND GUTTER AND UNDER AC TO BE CONTINUOUS.
(C) THE MAXIMUM GRADE BREAK OCCURRING IN THE CROSS SECTION SHALL BE 2.0% AND SHALL FALL BETWEEN DRIVING LANES OR BETWEEN A DRIVING LANE AND A PARKING LANE.

✱ OWNER AGREES THAT IF EXISTING NATIVE MATERIAL DOES NOT CONFORM TO SPECIFICATIONS FOR TYPE I BASE, OWNER WILL IMPORT TYPE I BASE FOR A.C. PAVEMENT.

TYPICAL 51' R/W STREET



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✱ OWNER AGREES THAT IF EXISTING NATIVE MATERIAL DOES NOT CONFORM TO SPECIFICATIONS FOR TYPE I BASE, OWNER WILL IMPORT TYPE I BASE FOR A.C. PAVEMENT.

TYPICAL 60' R/W STREET

ESTIMATE OF QUANTITIES

STREET IMPROVEMENTS

1.	2" A.C. PAVEMENT	4,901	S.Y.
2.	"L" TYPE CURB AND GUTTER	2,412	L.F. *
3.	5' CONCRETE SIDEWALK	7,655	S.F.
4.	6' CONCRETE VALLEY GUTTER	914	S.F.
5.	CONCRETE DRIVEWAY (24 X 5 = 120 SF)	4,320	S.F. **
6.			

WATER

7.	STD F.H. W/6" G.V. AND 6" A.C.P. LAT.	3	EA.
8.	6" A.C.P.	1,165	L.F.
9.	6" G.V. W/VALVE BOX AND COVER	3	EA.
10.	16X 6 TAPPING TEE W/6" G.V.	1	EA.
11.	METER BOX	36	EA.
12.	3/4" SERVICE LATERALS	36	EA.
13.	5/8" x 3/4" METER BY LVVWD	36	EA.
	BLOW OFF	2	EA.

SEWER

14.	STANDARD MANHOLE	6	EA.
15.	8" VCP	1,866	L.F.
16.	4" VCP LATERALS	925	L.F.
17.			

STREET LIGHTING

18.	100 W. LUM. W/11 GA. POLE	12	EA.
19.	1 1/4" PVC	1,982	L.F.
20.			
21.			

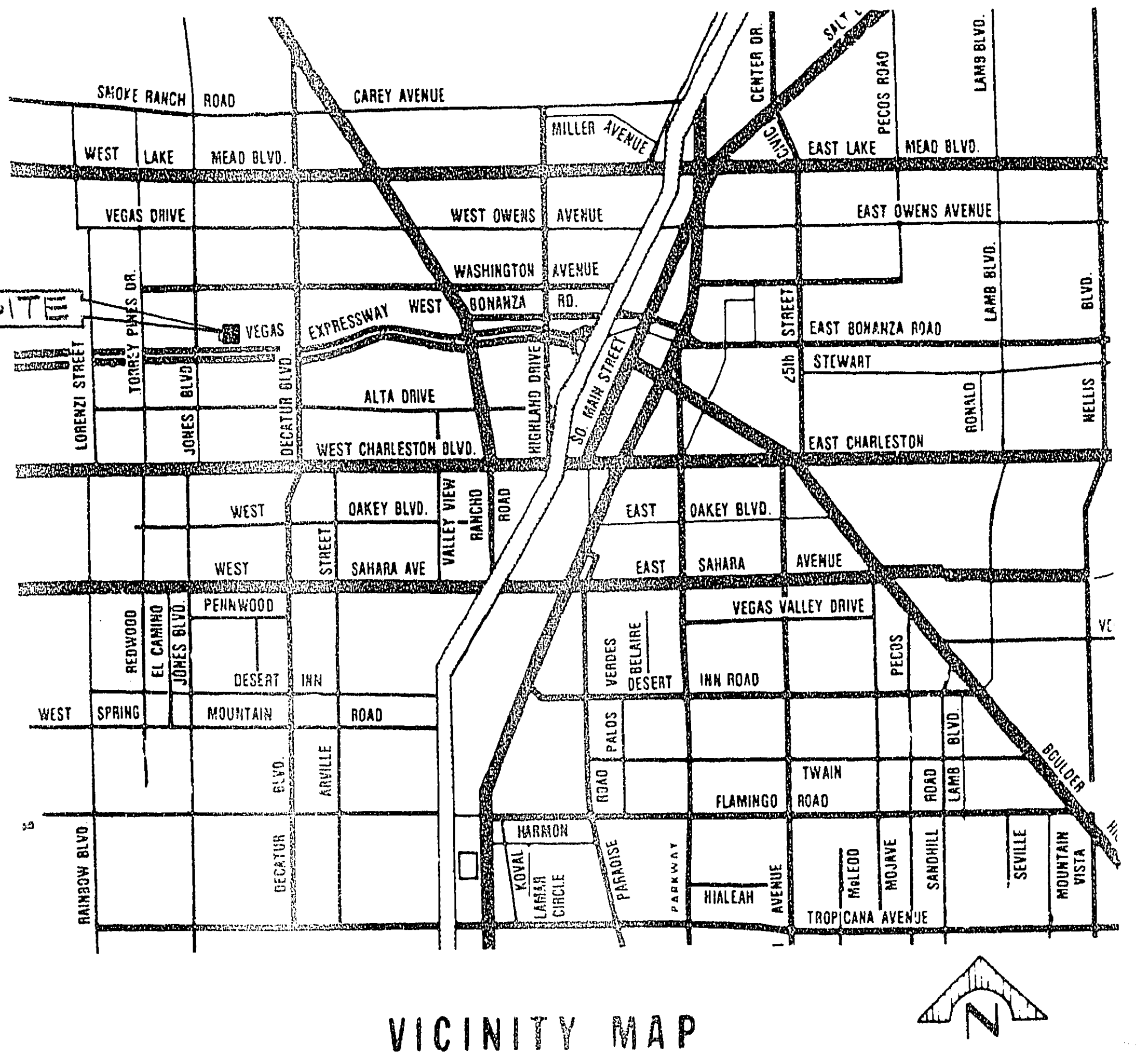
MISCELLANEOUS

22.	EXCAVATION	6,500	C.Y.
23.	STOP AND STREET SIGN	2	EA.
24.	2' CONC. VALLEY GUTTER (DET 4/5)	532	S.F.
25.	RETAINING WALL (DET 8/5) ***	100	L.F.
26.	4" DRAIN PIPE	138	L.F.
27.	6" DRAIN PIPE	253	L.F.
28.	N.D.S. CATCH BASIN (DET. 3/6)	6	EA.
29.	4" DBL. "WYE" AND 4" PIPES UNDER S.W. INCLUDING REMOVAL & REPLACEMENT OF EXIST. CURB & S.W. (DET 4/6)	2	EA.
30.	REMOVE EXISTING CURB AND GUTTER	330	L.F.
31.	REMOVE EXIST. CONC. SIDEWALK	1,651	S.F.
32.	C.L.V. STD. BARRICADE	1	EA.

* INCLUDING QUANTITIES ON ALASKA AVENUE.

** INCLUDING QUANTITIES ON ALASKA AVENUE. FINAL QUANTITY TO BE DETERMINED FROM MODEL SCHEDULE SHOWN ON PLOT PLAN.

*** HEIGHT & LENGTH OF RETAINING WALLS SHOWN ON PLAN ARE APPROXIMATE ONLY. EXACT HEIGHT & LENGTH TO BE DETERMINED IN THE FIELD DURING CONSTRUCTION WITH EXISTING CONDITIONS.



VICINITY MAP

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, R.P.E. # 3794

2/8/78
DATE

INDEX OF DRAWINGS

NO.	TITLE
1	COVER SHEET
2	PLAT MAP
3	PLAT MAP
4	QUANTITIES, GENERAL NOTES, & MISC.
5	UTILITY PLAN
6	ALASKA AVE.
7.	CASCO WAY
8	SUNBEAM DRIVE

NOTE;
FOR GRADING PLANS SEE LEWIS HOMES-MEADOW VISTA UNIT № 2, 3 & 4 GRADING PLANS, SHEETS 1 THRU 6 OF 6

APPROVALS

CITY ENGINEER — 2/12/78 DATE

FIELD OPERATIONS ENGINEER — 2-14-78 DATE

QUALITY CONTROL ENGINEER — 2/14/78 DATE

REV	DATE	DESCRIPTION

RECOMMENDED
BY G. C. WALLACE
3794 R.E. NO.
2/8/78 DATE

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

LEWIS HOMES OF NEVADA
LEWIS HOMES MEADOW VISTA UNIT NO. 3
QUANTITIES, GENERAL NOTES & MISC.

SHEET
4
OF 8 SHEETS

[illegible]

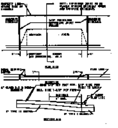
[illegible]

STREET LIGHTING NOTES

[illegible]

BENCH MARK

BOLT IN T.C., NW COR. [illegible] OF [illegible] &
[illegible]
CLV. BM. [illegible] D-3
ELEV. [illegible]



TYPICAL DRIVEWAY DETAIL

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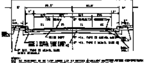

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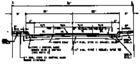
TYPICAL 51' R/W STREET



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TYPICAL 60' R/W STREET

ESTIMATE OF QUANTITIES

[illegible]

VICINITY MAP

[illegible]

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7	GASCO WAY
8	[illegible]

NOTES:
FOR GRADING PLANS SEE [illegible]
VISTA UNIT No 2, 3 & 4 GRADING PLANS, SHEETS
1 THRU [illegible] OF [illegible]

APPROVALS

[illegible] 2/25/77

[illegible]

G.C. WALLACE
Consulting Engineers, Inc.

QUANTITIES, GENERAL NOTES & MISC.

SHEET
4

107Y-2028-3