

QUANTITIES

OFF-SITE QUANTITIES

1. SAWCUT EXIST. A.C. PAVEMENT	296 LIN. FT.
2. REMOVE EXIST. A.C. PAVEMENT	5,275 SQ. FT.
3. REMOVE EXIST. 5' S.W.	160 SQ. FT.
4. REMOVE EXIST. COMM. D.W.	140 SQ. FT.
5. REMOVE EXIST. "L" CURB & GUTTER	32 LIN. FT.
6. 2" A.C. PAVEMENT	6,126 SQ. FT.
7. "L" TYPE CURB & GUTTER	173 Lin. Ft.
8. 5' SIDEWALK	863 SQ. FT.
9. COMMERCIAL DRIVEWAYS	616 SQ. FT.
10. DRIVEWAY APRON	28 SQ. FT.
11. TYPE I GRAVEL BASE	92 CU. YDS.
12. TYPE II GRAVEL BASE	85 CU. YDS.
13. FIRE HYDRANT WITH APPUR.	1 EACH
14. STREETS LIGHTS (100 HPS)	1 EACH
15. 1 1/2" P.V.C. CONDUIT	331 LIN. FT.
16. STREET LIGHTING SERVICE PT.	1 EACH
17. 4" V.C.P. (SEWER LATERAL)	47 LIN. FT.
18. WATER SERVICE PT.	1 EACH
19. WHEEL CHAIR RAMP AS SHOWN ON PLANS	1 EACH

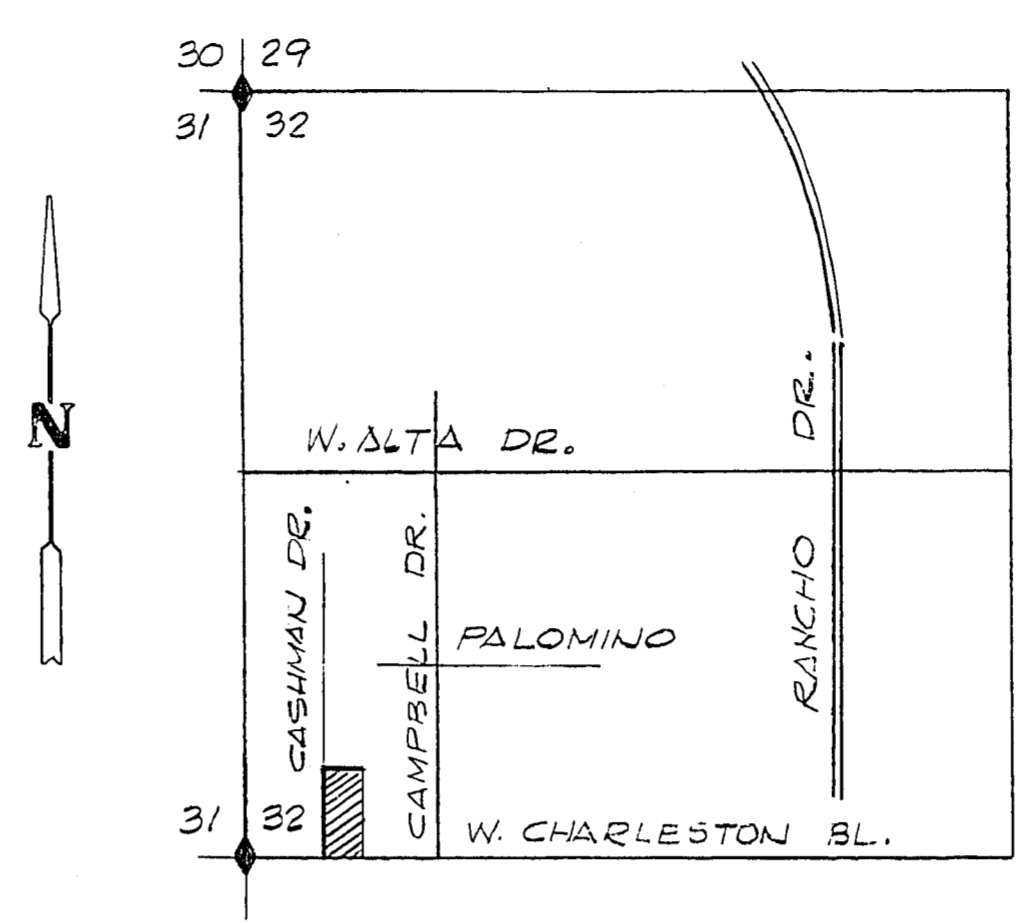
REGIONAL STREET & HIGHWAY NOTE

- NO MORE THAN ONE TRAVEL LANE IN EACH DIRECTION BE CLOSED AT ANY TIME.
- BACKFILL WITH SELECT MATERIAL USING MECHANICAL COMPACTION METHODS.
- SAWCUT EXISTING PAVEMENT.
- REPLACE DEEP STRENGTH ASPHALT CEMENT PAVING WITH SAME DEPTH AND LIKE MATERIAL TO ONE FOOT OUTSIDE THE TRENCH AREA WITHIN THE AREA OF THE CHARLESTON BLVD. CONSTRUCTION.
- REPLACE OPEN-GRADED SURFACE COURSE.
- REPLACE ALL TRAFFIC CONTROL DEVICES REMOVED OR DISTURBED DURING CONSTRUCTION INCLUDING, DELINEATION, PAINT, AND BUTTONS.
- PERMANENT REPAIRS TO BE COMPLETED WITHIN 15 DAYS OF STARTING WORK.
- CONTRACTOR TO WARRANTY THE PATCH TO THE CITY OF LAS VEGAS FOR TWO YEARS AFTER ACCEPTANCE BY THE CITY OF LAS VEGAS.
- NORMAL WORK PERMIT MUST BE OBTAINED FROM THE CITY OF LAS VEGAS PUBLIC SERVICE DEPARTMENT.
- THE SEWER AND WATER CUT MUST BE WITHIN THE SAME ST. PATCH.

ABBREVIATIONS

AC.....Asphaltic Concrete	MIN.....Minimum
ACP.....Asbestos Cement Pipe	NO.....Number
ADJ.....Adjust	NRCP.....Non-reinforced concrete pipe
BC.....Beginning of curve or Back of curb	OC.....On Center
BCR.....Beginning of curb return or Back of curb radius	OD.....Outside diameter
BDRY.....Boundary	PC.....Point of curvature
BEG.....Begin	PCC.....Point of compound curve or Portland cement concrete
BM.....Bench Mark	PHP.....Plastic High Pressure
BVC.....Beginning of Vertical Curve	PI.....Point of Intersection
C & G.....Curb & Gutter	PL.....Property Line
CF.....Curb Face	PP.....Power Pole
CIP.....Cast Iron Pipe	PRC.....Point of Reverse Curve
CL.....Centerline or Chain Link	PROP.....Proposed
CMP.....Corrugated Metal Pipe	PT.....Point of Tangent
CONC.....Concrete	PVC.....Poly vinyl chloride pipe
CONST.....Construct	PVI.....Point of Vertical Intersection
D.....Diameter of Pipe	PVMT.....Pavement
DBL.....Double	Q.....Rate of Flow
DI.....Drop Inlet	R.....Radius
DIA.....Diameter	RC.....Reinforced Concrete
DMH.....Drop Manhole	RCP.....Reinforced Concrete Pipe
EC.....End of Curve	RT.....Right
ECR.....End of Curb Return	R/M.....Right of Way
EL.....Elevation	SD.....Storm Drain
EVC.....End of Vertical Curve	SHP.....Steel High Pressure
EQ.....Equal	SHT.....Sheet
EX.....Existing	SP MH.....Special Manhole
FG.....Finish Grade	SS.....Sanitary Sewer
FL.....Fire Hydrant	STA.....Station
FL.....Flow Line	STD.....Standard
GB.....Grade Break	STL.....Steel
H.....High or Height	SW.....Sidewalk
HOR.....Horizontal	T.....Tangent Distance
ID.....Inside Diameter	TC.....Top of Curb
INV.....Invert	TMH.....Top of Manhole
IP.....Iron Pipe	TRANS.....Transition
L.....Length	TSC.....Traffic Signal Conduit
LAT.....Lateral	VC.....Vertical Curve
LF.....Lineal Feet	VCP.....Vitrified Clay Pipe
LT.....Left	VERT.....Vertical
Mx.....Maximum	VG.....Valley Gutter
M.....Manhole	W.....Water

VICINITY MAP



BENCHMARK

CLV B.M.# 1615 BG @ SOUTHWEST CORNER OF CASHMAN DR. & CHARLESTON BLVD. ELEV. 2111.73.

GENERAL NOTES

- All construction and materials shall be in accordance with the "Uniform Standard Specifications for Public Works Construction Off-site Improvements, Clark County Area Nevada", issued 1978, the "Uniform Standard Drawings for Public Works Construction, Clark County Area", any other applicable approved standards issued by the controlling agency; the Uniform Building Code; and all Local City Codes and Ordinances Applicable.
- The existence and location of any underground utility pipes or structures shown on these plans are obtained by a search of the available records. To the best of our knowledge there are no existing utilities except as shown on these drawings. The contractor is required to take precautionary measures to protect the utility lines shown and any other lines not of record or not shown on these drawings.
- All grades are referenced to the top of the construction grade stakes or nails and this rule shall be observed: Three consecutive construction grade stakes or nails corresponding to three consecutive points shown on the approved plans as a straight grade shall be used in common and any variation shall be reported in writing to the City Engineer before work proceeds. Contractors doing otherwise shall proceed at their total risk and responsibility.
- The quantity estimates shown hereon are approximate and no one is to rely upon them for pay quantities. Each and every contractor shall have a set of approved plans and specifications on the job site at all times and shall rely upon them to a higher degree than the construction stakes in prosecuting the work.
- All construction shall be as shown on these plans, any alterations shall have the prior approval of the City Engineer.
- Contractor shall provide all necessary Horizontal and Vertical Transitions for proper drainage, extent of transitions shall be as shown or as determined by City Engineer or Inspector.
- If any curb grades are shown on plan @ less than 0.40%, it is required by this office, that the forms be checked by a survey crew prior to concrete placement. A 48 hour notification of work is required, and if this office is not notified, it will assume no responsibility for finished product.
- Type V Cement shall be used in all off-site concrete work.
- Expansion joints required, maximum every 300' in extruded type curb.
- AC pavement to be 1/2" above 1lp of all gutters & valley gutters after compaction.
- The manholes shall have concrete collars at surface of paved areas.
- Chisel S or G when ever sewer or gas lines pass under the curb.

INDEX OF SHEETS

SHEET	DESCRIPTION
1.	SECTION & DETAILS, STDS. NOTES ABBREVIATIONS, ETC.
2.	CASHMAN DR. & CHARLESTON BLVD. ST IMPROVEMENT, ST LIGHTING & FIRE HYDRANT PLAN

APPROVALS

<i>CP Brecher</i>	3-21-79
REGIONAL ST. & HWY.	DATE
<i>[Signature]</i>	4/1/79
LAS VEGAS FIELD OPERATIONS ENGINEER	DATE
<i>[Signature]</i>	4-4-79
LAS VEGAS ELECTRICAL SUPERV.	DATE
<i>[Signature]</i>	4/2/79
LAS VEGAS ELECTRICAL COORDINATOR	DATE
<i>[Signature]</i>	3-27-79
LAS VEGAS FIRE MARSHALL	DATE
<i>[Signature]</i>	4-4-79
QUALITY CONTROL ENGINEER	DATE
<i>[Signature]</i>	3-28-79
LAS VEGAS TRAFFIC ENGINEER	DATE
<i>[Signature]</i>	3-2-79
NEVADA POWER COMPANY	DATE

OWNER

DR. STEVEN P. and MARIAM SHEARING

REVISION NO.	DESCRIPTION	BY	DATE	APPROVAL
REVISIONS				
CASHMAN DR. & CHARLESTON BLVD.				
LAS VEGAS, NEVADA				
ABBREVIATIONS, APPROVALS, BENCHMARK, INDEX OF SHEETS, NOTES, QUANTITIES, SECTIONS & DETAILS, STANDARDS & VICINITY MAP				
ALCA ENGINEERING INC.				
CIVIL ENGINEERING - SURVEYING				
2765 SOUTH HIGHLAND DRIVE SUITE #103				
LAS VEGAS, NEVADA 89109 PH. 732-2105				
SCALE (H)	SCALE (V)	DATE	JOB NO.	
DES			7512-4-8	
DR			SHEET 1 OF 2	

