

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF LAS VEGAS SPECIFICATIONS, THE CITY OF LAS VEGAS STANDARD SPECIFICATIONS FOR CONSTRUCTION, ALL OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA MANUAL, LATEST EDITION, THE CITY OF LAS VEGAS STANDARD SPECIFICATIONS FOR CONSTRUCTION, LATEST EDITION OF LAS VEGAS, ANY OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CITY ENGINEER AND ANY OTHER ADOPTED STANDARDS AND ALL LOCAL CITY, COUNTY, STATE AND ORDINANCES APPLICABLE. EXCEPTIONS TO THESE STANDARDS ARE SHOWN BELOW.
2. THE EXISTING LOCATION OF ANY UNDERGROUND UTILITIES PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION. PROTECT THE UTILITIES SHOWN AND ANY OTHER LINES NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ANY LINES NOT SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ANY EXISTING UTILITY SINCE LATENTS ARE NOT TO BE REMOVED IN PLACE.
3. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS NECESSARY TO PROTECT ANY EXISTING UTILITIES THAT ARE TO REMAIN IN PLACE, FROM DAMAGE AND ALL SUCH IMPROVEMENTS SHALL BE RECONSTRUCTED TO SATISFACTORY CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ANY LINES NOT SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ANY EXISTING UTILITY SINCE LATENTS ARE NOT TO BE REMOVED IN PLACE.
4. THE CONTRACTOR SHALL NOT BURN OR REMOVE ANY MATERIALS OR STRUCTURES IN THE VICINITY OF THE PROJECT. THE CONTRACTOR SHALL BE INSPECTED BY THE LAS VEGAS VALLEY WATER DISTRICT. THE WATER DISTRICT SHALL BE NOTIFIED 48 HOURS IN WRITTEN ADVANCE OF CONSTRUCTION IN THE VICINITY OF WATER LINES.
5. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY ALTERATIONS SHALL BE APPROVED BY THE CITY ENGINEER.
6. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE DESIGNED FOR A 5.5 KSI WORK WITH A MINIMUM WEAR/COMB RATIO OF 1.0. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ANY LINES NOT SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ANY EXISTING UTILITY SINCE LATENTS ARE NOT TO BE REMOVED IN PLACE.
7. THE CONTRACTOR SHALL, AT HIS OWN DISCRETION, LOCATE ALL OVERHEAD UTILITIES WHICH MAY BE IN THE FIELD OF THE PROJECT. THE CONTRACTOR 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 FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ANY LINES NOT SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ANY EXISTING UTILITY SINCE LATENTS ARE NOT TO BE REMOVED IN PLACE.
8. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTORS REQUIRED FOR THIS CONSTRUCTION.
9. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED TYPE CURB.
10. CURB & GUTTER WITH A GRADE OF LESS THAN FOUR TENTHS OF ONE PERCENT SHALL BE CONSTRUCTED TO THE GRADE OF THE EXISTING PAVEMENT. THE CONTRACTOR SHALL PROTECT THE EXISTING PAVEMENT FROM CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER COMPLETION OF THE FIELD.
11. INTERSECTION RAMP SHALL BE CONSTRUCTED IN EACH QUADRANT OF A WHEELSPREAD PER STANDARD DRAWING 622A. EXACT LOCATION OF RAMPS MAY VARY SLIGHTLY IN THE FIELD.
12. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE A SMOOTH TRANSITION AND MAINTAIN THE EXISTING SURFACE. THE LOCATION AND GRADIENT OF TRANSITIONS TO BE DETERMINED BY THE CITY ENGINEER AND AS SHOWN ON THESE PLANS.
13. ALL GRADING WORK SHALL CONFORM TO THE SLOPS REPORT AS PREPARED BY THE SLOPS ENGINEER OR PER THESE PLANS.
14. EXACT LOCATION OF ALL SURVEY LINES MAY BE DETERMINED IN THE FIELD BY THE CITY ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ANY LINES NOT SHOWN, OR EXISTING PAVEMENT QUANTITIES RELOCATION.
15. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ANY LINES NOT SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ANY EXISTING UTILITY SINCE LATENTS ARE NOT TO BE REMOVED IN PLACE.
16. CONSTRUCTION SCHEDULE

THE CONTRACTOR SHALL SUBMIT THE TOP OF STAKES OR WALLS. THE CONTRACTOR IS CONSTRUCTED TO OBSERVE THE FOLLOWING RATES IN USING THE GRADE STAKES: GRADE STAKES SHALL BE SET AT A MINIMUM OF 100' INTERVALS. THE CONTRACTOR SHALL MAINTAIN THE SAME RATES OF SLOPE MUST BE USED IN COMBINATION IN ORDER THAT ANY CHANGES TO THE SLOPE OF THE EXISTING PAVEMENT SHALL BE MAINTAINED. THE CONTRACTOR SHALL MAINTAIN THE SAME RATE BE REPORTED, OTHERWISE THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ERROR IN THE GRADE OF THE EXISTING PAVEMENT.
17. THESE PLANS SHALL BE IN THE POSSESS OF ALL TIMES.

TYPE "L" CURB & GUTTER	4,505 L.F.
TYPE II AGGREGATE BASE	4,350 C.F.
4" CONCRETE SIDEWALK	25,525 S.F.
AC AC PAVEMENT	22,925 S.F.
CHANNEL LIGHTING	172,950 S.F.
STREET LIGHT	28 EA.
DRIVEWAY OPTION "A"	688 S.F.
CHANNEL ACCESS	2 EA.
CHANNEL ACCESS RAMP	1,933 S.F.
DOUBLE "S"-6" ARCH CULVERT	296 L.F.
TYPE "A" MEDIAN CURB	4174 L.F.
TYPE "2" CURB	483 L.F.
1/4" PVC CONDUIT	4,506 L.F.
PULL BOX	6 EA.
C.I.V. BARRICADE	2 EA.
TYPE "A" INLET	5 EA.
18" R.C.P.	160 L.F.

ALL STREET LIGHT INSTALLATIONS SHALL CONFORM TO THE STANDARD DETAILS AND SPECIFICATIONS OF THE CITY OF LAS VEGAS, AND SHALL ALSO CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, LATEST EDITION, UNLESS OTHERWISE NOTED ON THIS PAGE. SEE UNIFORM STANDARD DWG. NO. 319.

1. A.C. PAVEMENT TO BE 1/2" ABOVE LIP OF GUTTER AFTER COMPACTION.
2. TYPE I SUBGRADE UNDER A.C. PAVEMENT, CURB AND GUTTER TO BE CONTINUOUS.
3. APPLY G.O. SEAL ONLY AFTER FINAL CORRECTIONS AND ADJUSTMENTS HAVE BEEN MADE.
4. THE MAXIMUM GRADE BREAK OCCURRING IN THE CROSS SECTION SHALL BE 2% AND SHALL FALL BETWEEN A DRIVING LANE AND A PARKING LANE.
5. NATIVE MATERIAL MAY BE USED IN LIEU OF TYPE I WHEN PROCESSED FOR APPROVAL IN ACCORDANCE WITH CITY OF LAS VEGAS STANDARD SPECIFICATION DATED 7/25/85.
6. A.C. PAVEMENT TO BE INSTALLED IN TWO (2) LIFTS AS FOLLOWS:
1 1/2" MINIMUM COURSE BY THE CONTRACTOR
1" TOP COURSE BY THE CITY OF LAS VEGAS.

GLV BENCHMARK: TOP OF CURB AT END OF CURB, WEST SIDE
OF DURANGO DRIVE, 250' SOUTH OF WESTCLIFF BOULEVARD.
ELEVATION: 2610.16

 PROJECT BENCHMARK: BRASS CAP IN IRON PIPE,
100' NORTH AND 100' WEST OF THE INTERSECTION
OF SUN CITY BLVD. AND THOMAS W. RYAN BLVD..
N 532,706.153, E 577,616.901
ELEVATION: 2855.24

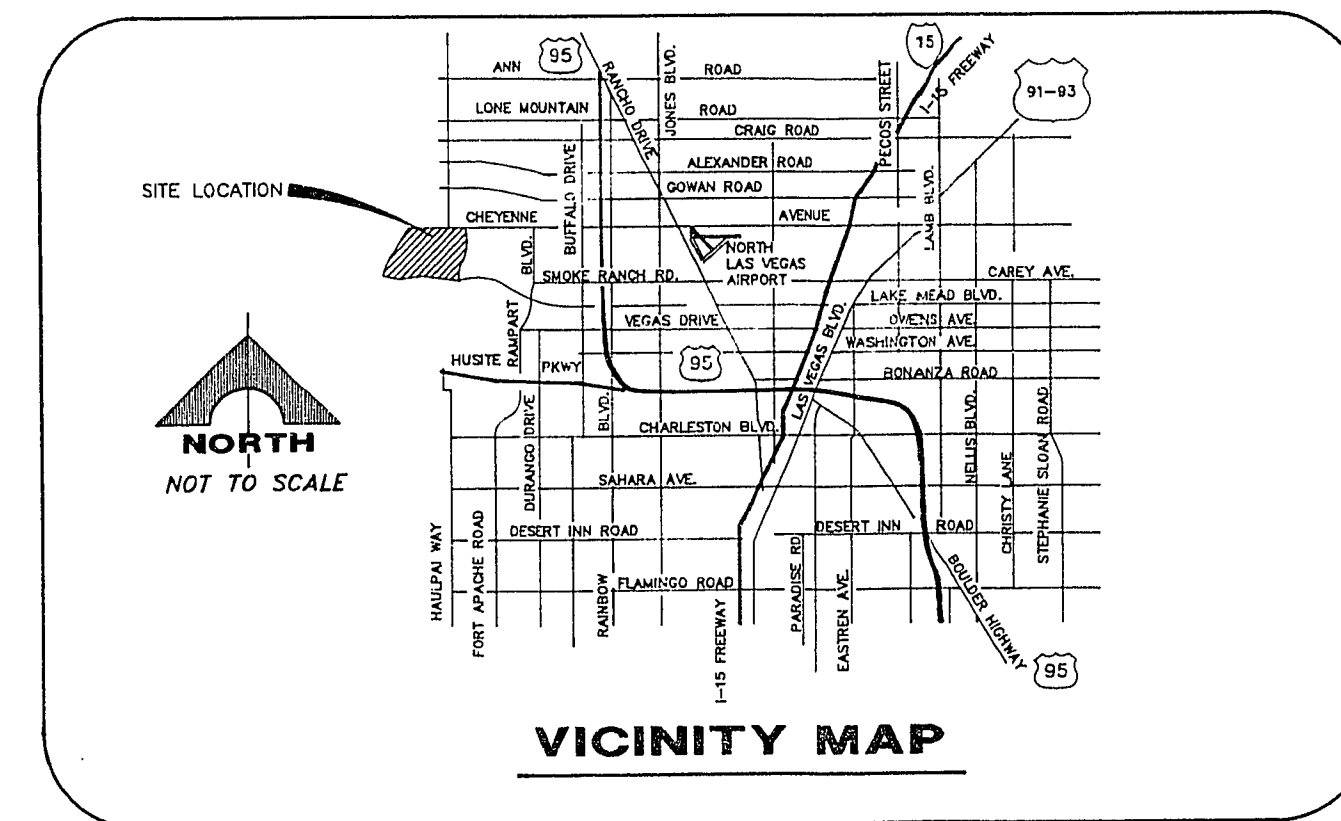
KEY MAP

The key map illustrates the overall site plan, showing the arrangement of residential units (Unit Nos. 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39) and golf courses. Major roads such as Cheyenne Ave., Highway 101, and various local streets (e.g., Willow, Lark, Meadow, Birch, Elm, Oak, Pine, Spruce, Fir, Cedar, Redwood, Cypress, Juniper, Sycamore, Hickory, Walnut, Pecan, Magnolia, Dogwood, Red Maple, White Maple, Sugar Maple, Norway Spruce, Eastern White Pine, Loblolly Shortleaf Pine, Slash Pine, Longleaf Pine, Shortleaf Pine, Virginia Pine, Loblolly Shortleaf Pine, Slash Pine, Longleaf Pine, Shortleaf Pine, Virginia Pine) are labeled. A North arrow and a scale of 1 inch = 600 feet are included for orientation and measurement.

REFERENCE EXHIBIT "C" STIPULATION BETWEEN KERN RIVER GAS TRANSMISSION COMPANY AND DEL WEBB COMMUNITIES, INC. DATED APRIL 1, 1991. COPIES AVAILABLE FROM DEL WEBB COMMUNITIES, INC., A PORTION OF THIS PROJECT FALLS WITHIN THE KERN RIVER PIPELINE EASEMENT. ALL ENCROACHMENT SPECIFICATIONS SHALL BE FOLLOWED.

THIS IS TO CERTIFY THAT THESE IMPROVEMENT
PLANS ARE IN CONFORMANCE WITH THE
HYDRAULIC DESIGN REPORT AND SUPPLEMENT NO.
1 FOR PHASE II CHEYENNE AVENUE/CHEYENNE
CHANNEL AS SUBMITTED BY G. C. WALLACE, INC.

NO.	TITLE
1	COVER SHEET
2	GENERAL NOTES & MISCELLANEOUS
3	CHEYENNE AVE & CHEYENNE CHANNEL FROM STA. 275+00 TO STA. 287+00
4	CHEYENNE AVE. & CHEYENNE CHANNEL FROM STA. 287+00 TO STA. 299+00
5	CHEYENNE AVE. & CHEYENNE CHANNEL FROM STA. 299+00 TO STA. 311+00
6	CHEYENNE AVE. & CHEYENNE CHANNEL FROM STA. 311+00 TO STA. 322+49.39
7	DRAINAGE EASEMENT I & CHANNEL TRANSITION
8	ARCH CULVERT DETAILS
9	RETAINING WALL PROFILE STA. 287+78.31 TO STA. 290+50.00
10	CHANNEL TRANSITION CROSS-SECTIONS
11	CHEYENNE CHANNEL TRANSITION DETAILS
12	CHANNEL-DRAINAGE EASEMENT II
13	GREEN BELT / CHANNEL TRANSITION
14	TYPICAL ACCESS RAMP DETAIL
15	FIRE DEPT. ACCESS BRIDGE PLAN & PROFILE
16	FIRE DEPT. ACCESS BRIDGE & GENERAL NOTES
17	FIRE DEPT. ACCESS BRIDGE DETAILS
18	DETAIL I
19	DETAIL II
20-30	ARCH CULVERT DETAILS



 11-10-92
DENNIS ANDERSON
CITY ENGINEER
CITY OF LAS VEGAS, NEVADA