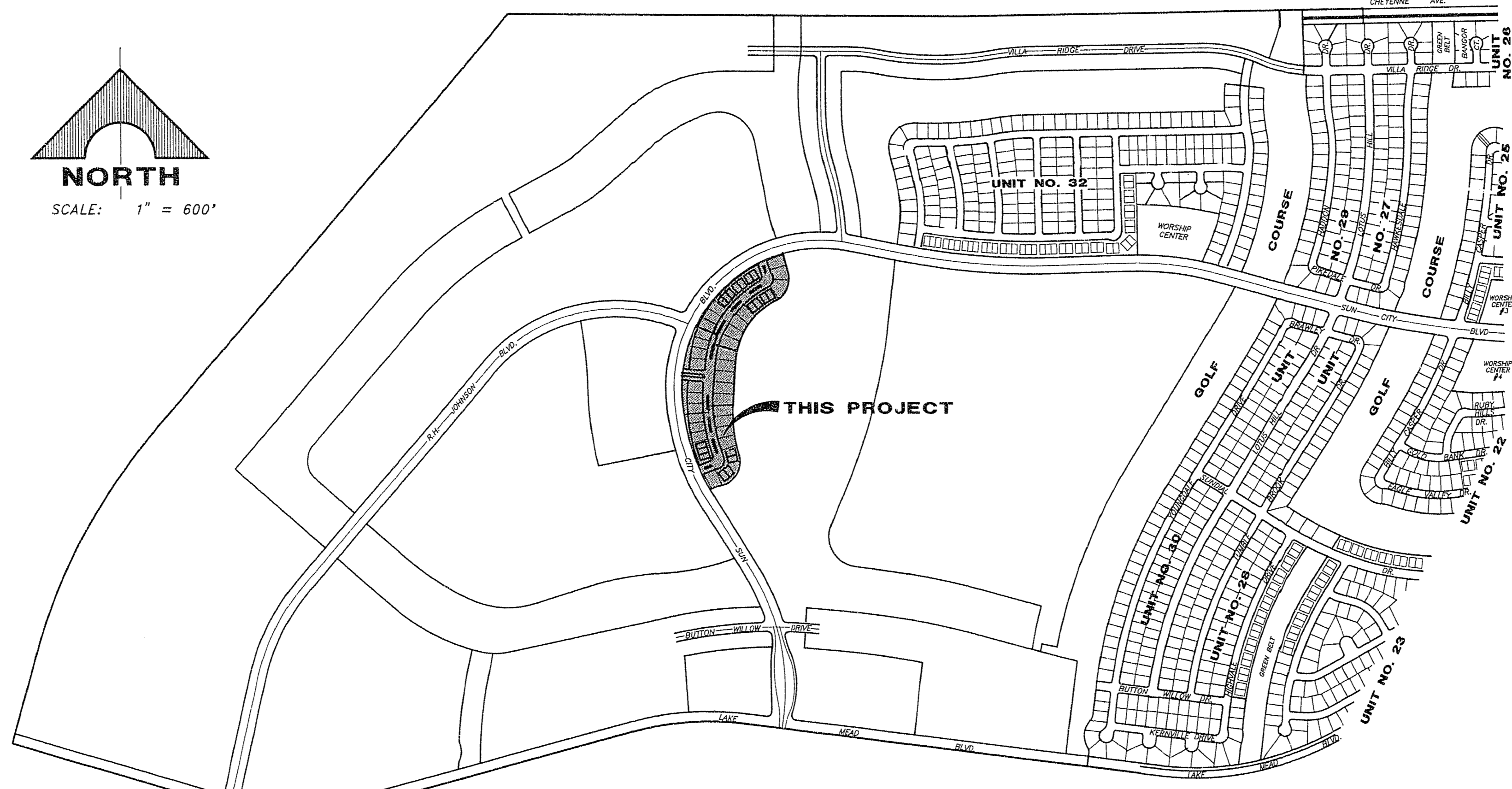
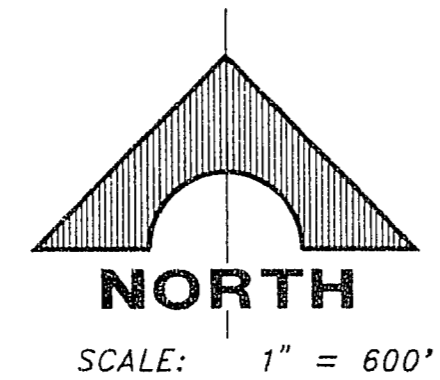


**GENERAL NOTES**

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 EDITION, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION CITY OF LAS VEGAS," ANY OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY, THE UNIFORM BUILDING CODE, AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE. EXCEPTIONS TO THESE STANDARDS ARE SHOWN BELOW.
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 AND 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 LABELS 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 4,500 P.S.I. MIX WITH A MAXIMUM WATER-CEMENT RATIO OF 0.43 (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 CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL OVERHEAD INTERFERENCES WHICH MAY AFFECT THE 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. CURB & GUTTER WITH A GRADE OF LESS THAN FOUR TENTHS OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CLEANED, GRADE PROOF TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
11. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING D224. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY ENGINEER.
12. 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 AND FROM CONSTRUCTION. EXTENT OF TRANSITIONS TO BE DETERMINED BY THE CITY ENGINEER AND AS SHOWN ON PLANS.
13. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE SOILS ENGINEER OR PER THESE PLANS.
14. EXACT LOCATION OF ALL SHUTOUT 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.
15. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PAVEMENT SURVEY MARKS. ALL MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORD WITH N.R.S. STATUTE NO. 425.250.
16. CONSTRUCTION SURVEY: OBJECTS ARE GIVEN FROM TOP OF STAKES OR WALLS. THE CONTRACTORS ARE CAUTIONED TO OBSERVE THE FOLLOWING RULES IN USING THE GRADE STAKES GIVEN BY THIS OFFICE: THREE (3) 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 LINE IS DETECTED. IN CASE ANY SUCH DISCREPANCY IS FOUND, THE SAME MUST BE REPORTED, OTHERWISE THIS OFFICE WILL NOT BE RESPONSIBLE FOR ANY ERROR IN THE GRADE OF THE FINISHED WORK.
17. THESE PLANS SHALL BE ON THE JOBSITE AT ALL TIMES.



**KEY MAP**

INDEX OF DRAWINGS	
NO.	TITLE
1	COVER SHEET
2	GENERAL NOTES & MISCELLANEOUS
3	ESTIMATE OF QUANTITIES
4	UTILITY PLAN
5	VISTA BUTTE DR. & SAUGUS DR. & INDIAN PINE DR.
6	VISTA BUTTE DR. & REGAL RIDGE DR.
7	GRADING PLAN
8	GRADING DETAIL I
9	GRADING DETAIL II

**SEWER NOTES**

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN & CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IN ALL CASES, THESE STANDARDS SUPERSEDE THE UNIFORM STANDARD SPECIFICATIONS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATION BOOKS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CONTROLLING AGENCY.
3. CHISEL "S" OR "C" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYETHYLENE (PE) SEWER PIPE SHALL MEET ASTM D-3034 SDR35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II GRAVEL.
5. ALL MANHOLES IN PAVED STREETS, 80" R/W AND LARGER, SHALL HAVE CONCRETE COLLARS.
6. FEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO 12" DIA. SIZE. CONNECTION TO 15" OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES.
7. A SEWER MAIN CROSSING OVER A WATER MAIN OR LESS THAN 18" UNDER A WATER MAIN MUST BE REINFORCED CONCRETE ENCASED FOR A DISTANCE NOT LESS THAN TEN FEET (10') TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.
8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CONTROLLING AGENCY MUST BE CLASS "A" CONTRACTORS.

**KERN RIVER PIPELINE ENCHROACHMENT SPECIFICATIONS**

REFERENCE EXHIBIT "C" TO 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 ENCHROACHMENT SPECIFICATIONS SHALL BE ADHERED TO.

**STORM DRAINAGE STRUCTURE NOTES**

1. STORM DRAINAGE STRUCTURES SHOWN ON THESE DRAWINGS MAY BE BID AND CONSTRUCTED IN THREE ALTERNATES:  
PRECAST CONCRETE BOX CULVERTS  
CAST-IN-PLACE CONCRETE BOX CULVERTS  
CAST-IN-PLACE AIR BLOWN CONCRETE ARCHES
2. BOX CULVERTS SHALL BE OF THE SIZE AND NUMBER INDICATED ON THE DETAIL SHEETS AND SHALL BE CONSTRUCTED TO NEARLY DEPT. OF TRANSPORTATION (NDOT) STANDARDS, INCLUDED HEREIN BY REPRODUCTION AND REFERENCE.
3. ARCH CULVERTS SHALL BE CAPABLE OF CARRYING THE DESIGN FLOWS SHOWN ON THE DRAWINGS WITHOUT EXCEEDING THE MAXIMUM HYDRAULIC GRADE LINE ELEVATIONS INDICATED AT THE UPSTREAM HEADWALL. THE ARCHES CONTRACTOR SHALL PROVIDE AN ENGINEERING REPORT FROM THE ARCHES INCLUDED IN THIS BID. THIS REPORT SHALL BE SIGNED BY AN ENGINEER REGISTERED IN THE STATE OF NEVADA AND SHALL INCLUDE THE FOLLOWING:  
HYDRAULIC CALCULATIONS DEMONSTRATING THE CAPACITY OF THE ARCH CULVERTS, AND  
STRUCTURAL CALCULATIONS AND DRAWING DETAILS WHICH DEMONSTRATE THE ARCHES ARE DESIGNED TO SUPPORT AN HS-20 LOADING, AND  
AN AIR BLOWN CONCRETE MIX DESIGN MATCHING THE COMPRESSIVE STRENGTH UTILIZED IN THE STRUCTURAL CALCULATIONS.  
FIVE COPIES OF THE ENGINEERING REPORT SHALL BE SUBMITTED WITHIN 14 DAYS OF NOTIFICATION OF AWARD. LOW BIDDER STATUS. THE REPORT MUST BE REVIEWED AND APPROVED BY DEL WEBB COMMUNITIES, INC. AND THE CITY OF LAS VEGAS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE APPROVALS AND ALL CONSTRUCTION PERMITS.
4. THE CROSS SECTION DIMENSIONS SHOWN FOR THE ARCH CULVERTS ARE APPROXIMATE AND MAY BE INCREASED OR DECREASED AS REQUIRED BY THE CONTRACTOR'S ENGINEERING REPORT.
5. WHERE SHOWN ON THE DRAWINGS, CAST IN PLACE CONCRETE HEADWALLS AND MANHOLES SHALL BE CONSTRUCTED UTILIZING 1000' STANDARDS AND DETAILS. THESE DETAILS SHALL BE USED FOR BOTH RECTANGULAR BOX OR ARCH CULVERTS.

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**BENCHMARKS**  
CLV 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 WEST CURB OF DEL WEBB BLVD., 100' SOUTH OF THE INTERSECTION OF DEL WEBB BLVD. AND SUN CITY BLVD. ELEVATION: 2593.15

**DEVIATIONS FROM STANDARD DRAWINGS**

**KNUCKLE (TYPICAL)**  
**LOT DRAINAGE (TYPICAL)**

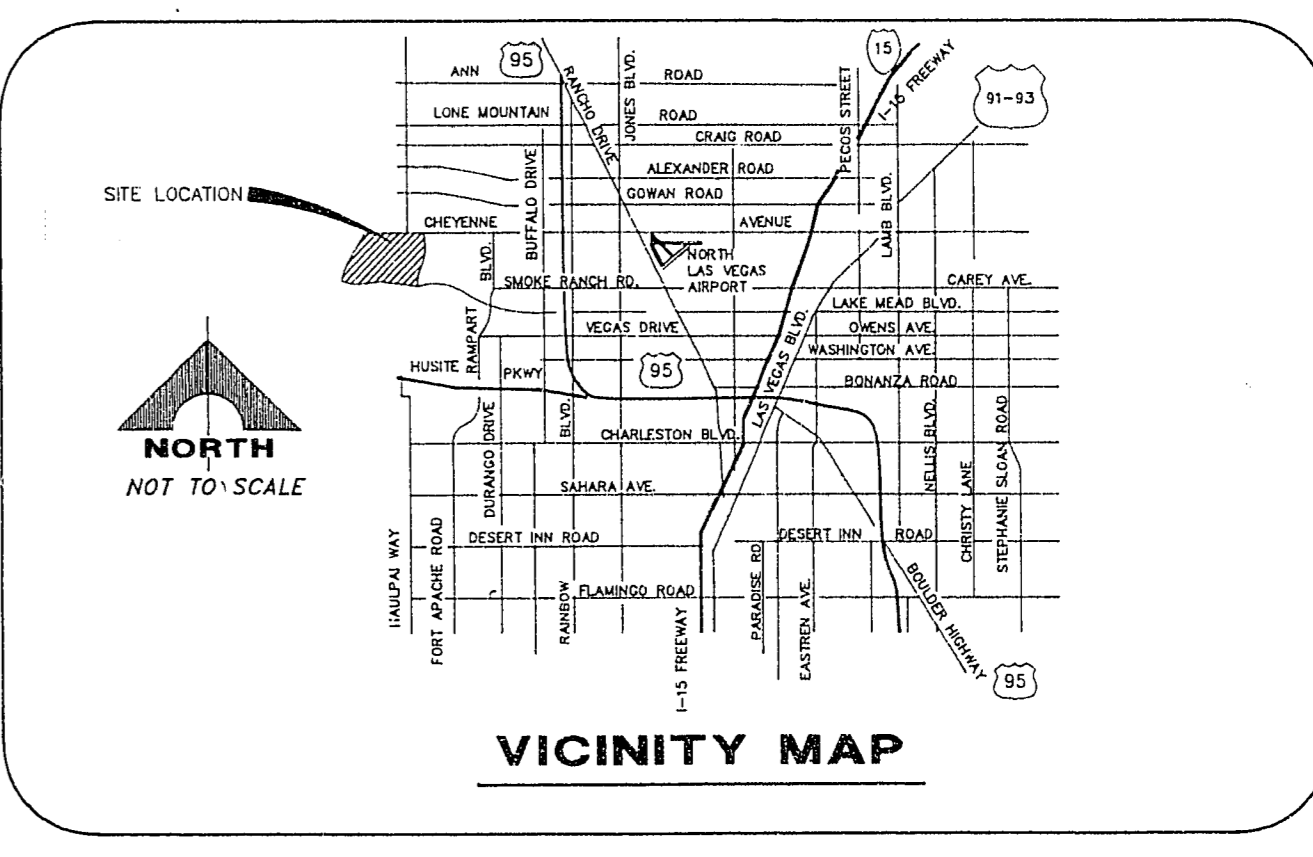
**STREET LIGHTING NOTE**

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 OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, LATEST EDITION, UNLESS OTHERWISE NOTED ON THIS PAGE. SEE UNIFORM STANDARD DWG. NO. 318.

**STREET NOTES**

1. A.C. PAVEMENT TO BE 1/2" ABOVE UP OF GUTTER AFTER COMPACTION.
2. TYPE I SUBGRADE UNDER A.C. PAVEMENT, CURB AND GUTTER TO BE CONTIGUOUS.
3. APPLY FOG 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 STATEMENT OF POLICY DATED 7/25/85.
6. A.C. PAVEMENT TO BE INSTALLED IN TWO (2) LIFTS AS FOLLOWS:  
1 1/2" BASE COURSE BY THE CONTRACTOR.  
1" TOP COURSE BY THE CITY OF LAS VEGAS.

**BENCHMARKS**  
CLV BENCHMARK: TOP OF CURB AT END OF CURB, WEST SIDE OF DURANGO DRIVE, 250' SOUTH OF WESTCLIFF BOULEVARD. ELEVATION: 2610.16  
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**APPROVAL**  
DENNIS ANDERSON  
CITY ENGINEER  
CITY OF LAS VEGAS, NEVADA  
DATE: 3-18-92

RECOMMENDED: MICHAEL D. ROSS, P.E. NO. 6218, DATE 3/18/92  
G.C. WALLACE, INC. Engineering/Architecture  
DEL WEBB COMMUNITIES, INC.  
SUN CITY LAS VEGAS UNIT NO. 33A  
GENERAL NOTES & MISCELLANEOUS  
SHEET 2 OF 9 SHEETS

JOB NO. 701-132 PLOTTED: 11/06/91 10:12 AM