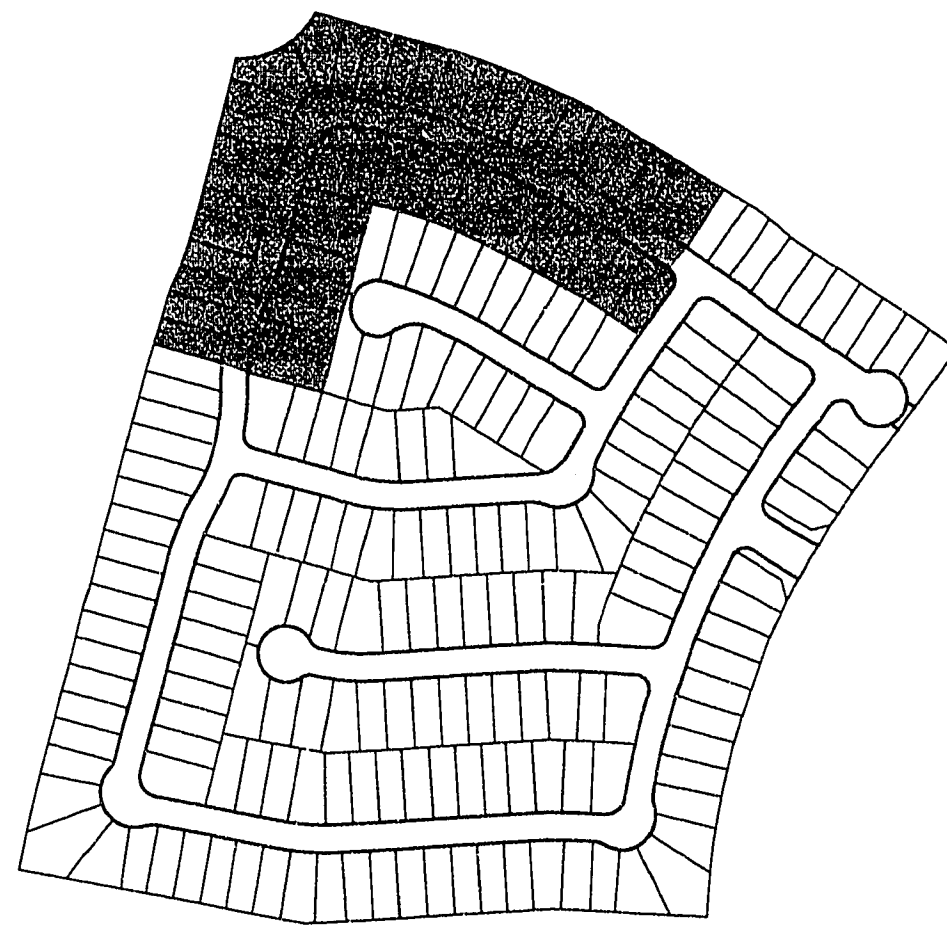
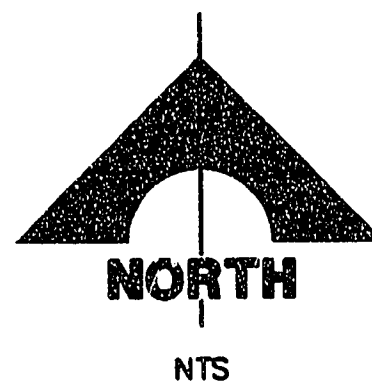




LOCATION MAP



LEGEND & ABBREVIATION

- 1 DETAIL DRAWING NUMBER
- 1 DRAWING NUMBER FOR DETAIL DRAWN ON SAME SHEET
- 1 DRAWING NUMBER FOR DETAIL WITH REFERENCE TO THE SHEET IT IS DRAWN ON
- BLD S DRAWING NUMBER (S) FOR DETAIL (S) PER SUMMERLIN IMPROVEMENTS STANDARDS
- SDI DRAWING NUMBER (S) FOR DETAIL (S) PER CITY OF LAS VEGAS IMPROVEMENT STANDARDS
- 1 INDICATES CONSTRUCTION NOTE
- 1 INDICATES REMOVAL NOTE
- 1 INDICATES CURVE NUMBER
- INDICATES SEWER MANHOLE IN PROFILE
- (60.5) EXIST. SPOT ELEVATION TO

EMBANKMENT

TOP
PROPOSED
BOTTOM
EXISTING

ABBREVIATION

I = IMPROVEMENTS
W = WATER
S = SEWER
SD = STORM DRAIN
SL = STREET LIGHTING
SIG = TRAFFIC SIGNAL
SMH = SEWER MANHOLE
SDMH = STORM DRAIN MANHOLE
CLV = CITY OF LAS VEGAS
LVVWB = LAS VEGAS VALLEY WATER DISTRICT
BCR = BACK OF CURB RETURN

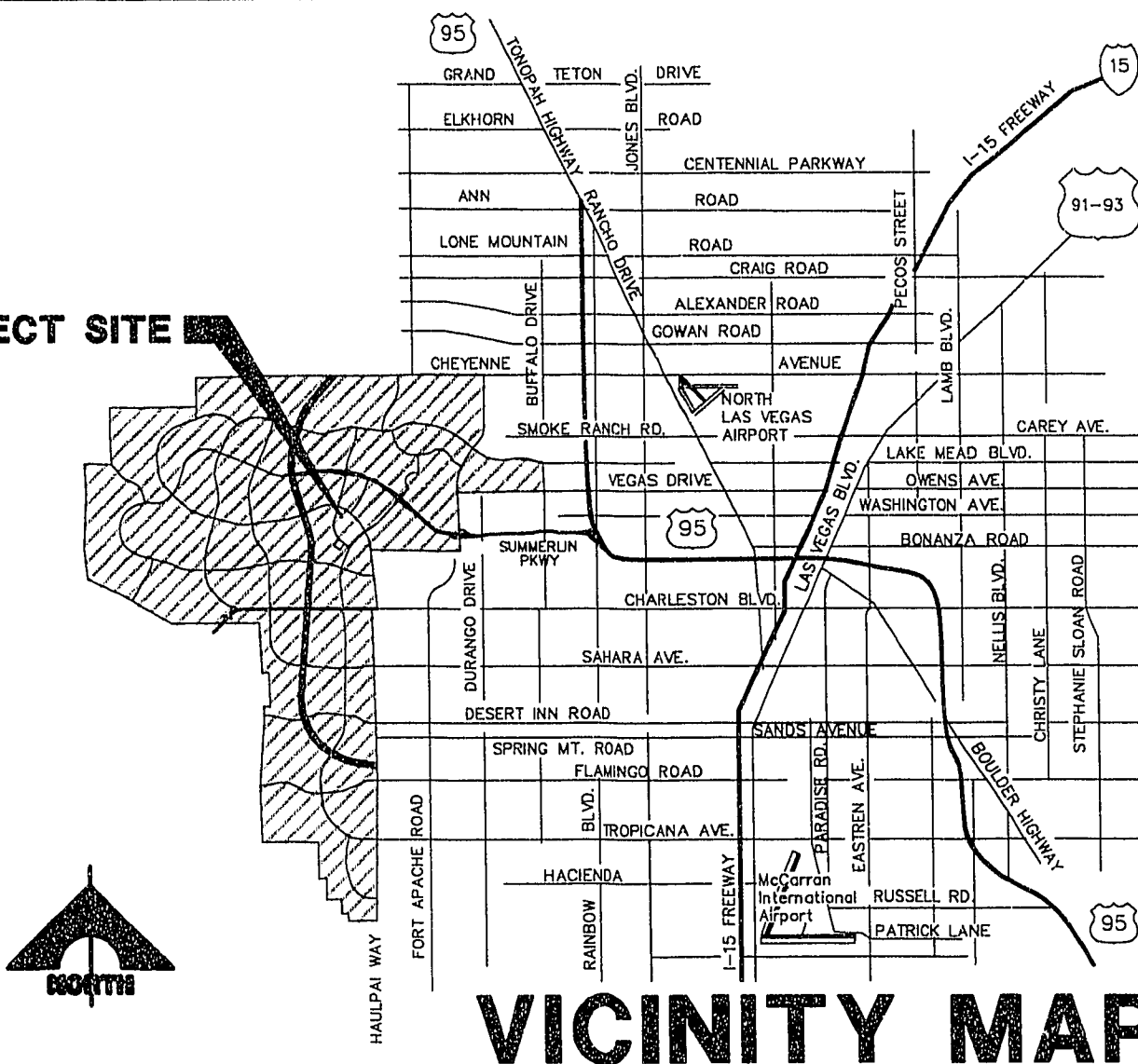
NOTE: LEGEND & ABBREVIATIONS IN THE "SUMMERLIN IMPROVEMENT STANDARDS", LATEST EDITION, WILL BE UTILIZED FOR ANY LEGEND & ABBREVIATION REQUIRED WHICH ARE NOT SHOWN.

CITY OF LAS VEGAS GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE SUMMERLIN IMPROVEMENT STANDARDS AS APPROVED BY THE CITY COUNCIL ON 2/2/93, "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; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
- THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND 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, GAS AND/OR OTHER UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COSTS AND LIABILITY IN CONNECTION THEREWITH.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES, AND STREET 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 REPLACED SATISFACTORILY TO THE CITY ENGINEER OR OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
- ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER AND SUMMERLIN.
- TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGN TO BE APPROVED BY THE QUALITY CONTROL DIVISION PRIOR TO USE ON THE PROJECT.
- PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
- EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 150' IN EXTRUDED TYPE CURB.
- AC PAVEMENT TO BE 1/2" ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS.
- APPLY FOG SEAL ONLY AFTER ALL CORRECTIONS AND ADJUSTMENTS HAVE BEEN MADE.
- CURB & GUTTER WITH A GRADE OF LESS THAN FIVE TENTHS OF ONE PERCENT SHALL BE WATER AS SOON AS POSSIBLE AFTER CONSTRUCTION. ANY CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- SIDEWALK RAMPS SHALL BE CONSTRUCTED AS SHOWN ON PLANS PER SUMMERLIN STD. DRAWING S.I.S. NO. S-77 "SIDEWALK RAMP". EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
- 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 NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS, OR AS DESIGNATED IN THE FIELD BY A CITY INSPECTOR.
- ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE SOILS ENGINEER AND APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
- 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 OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATION.
- 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.
- UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC. SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.
- WALL NOTES:
 - A. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN FOR THE PURPOSE OF GRADING RELATIONSHIPS.
 - B. THE STRUCTURAL AND ARCHITECTURAL DESIGN OF ALL WALLS (RETAINING OR NON-RETAINING) MUST BE APPROVED BY THE CLV BUILDING DEPARTMENT.
- ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT ON CITY STREETS.

- CONSTRUCTION SURVEY:
 - GRADES ARE GIVEN FROM TOP OF STAKES OR NAILS. 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 GRADE MAY BE 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.
- THESE PLANS SHALL BE ON THE JOBSITE AT ALL TIMES.

PROJECT SITE



VICINITY MAP

WATER NOTE

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.

SEWER NOTES

- 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 SHALL SUPERSEDE THE UNIFORM STANDARD SPECIFICATIONS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATION BOOKS.
- 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.
- CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
- POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II GRAVEL.
- ALL MANHOLES IN PAVED STREETS, 80' R/W AND LARGER, SHALL HAVE CONCRETE COLLARS.
- TEE 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.
- 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.
- ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CONTROLLING AGENCY MUST BE CLASS "A" CONTRACTORS.
- THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED AND REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY.

APPROVALS

Paul M. Wall
SUMMERLIN
9/5/95
DATE

DEVIATIONS FROM STANDARDS

- GRADE BREAKS IN KNUCKLE AREAS AND "T" INTERSECTIONS EXCEED ALGEBRAIC GRADE DIFFERENCE OF 1.0 PERCENT.
- OFFSET CROWN CROSSES CENTERLINE OF ROAD THROUGH KNUCKLE WHERE KNUCKLE - TYPE 2 (SUMMERLIN IMPROVEMENT STANDARDS DWG. NO. S-38) IS STANDARD.

BASIS OF BEARINGS

NORTH 88°50'11" WEST, BEING THE BEARING OF THE SOUTHERLY LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 30, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA AS SHOWN ON FILE IN FILE 63, PAGE 72 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE CLARK COUNTY, NEVADA.

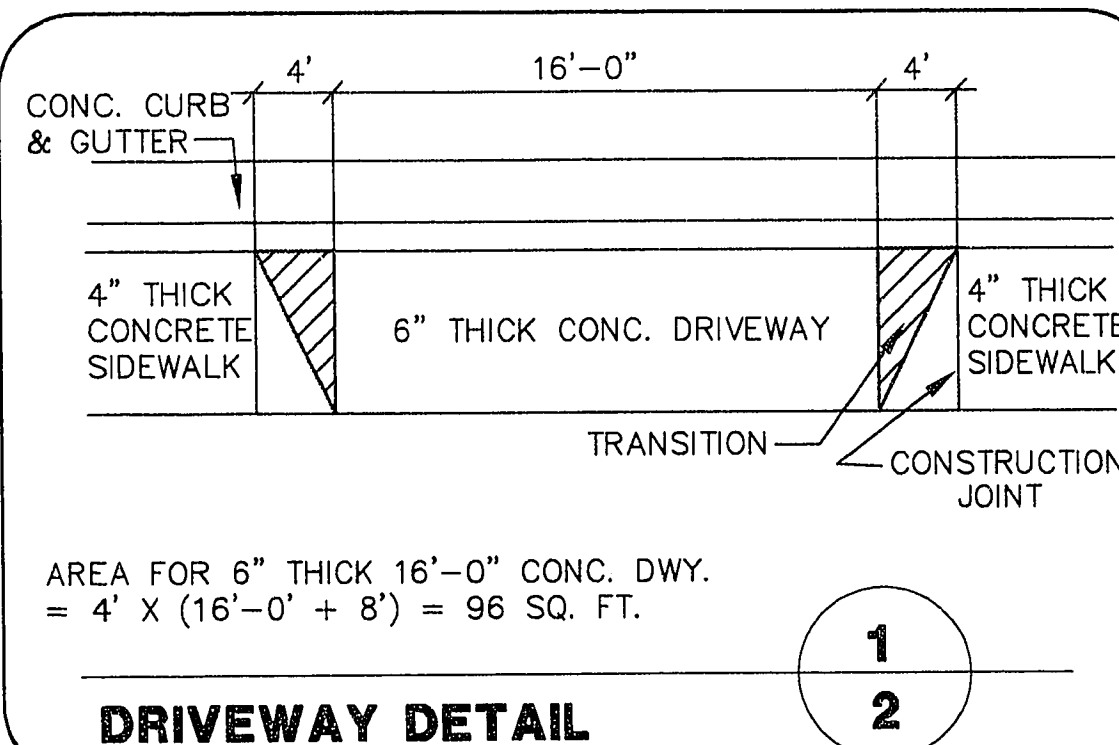
PROJECT BENCHMARK

G.C. WALLACE BENCHMARK No.107, A 2" BRASS DISC IN CONCRETE, LYING SOUTH 44°00'38" EAST 641.6' FROM THE INTERSECTION OF HUALAPAI AND TOWN CENTER DRIVE. ELEV.2877.96

CLV BENCHMARK

0LV0019S4
RIVET & PLATE IN TOP OF CURB NW SIDE OF TOWN CENTER DRIVE & SOUTH CIRCLE ISLAND.

2725.923 NGVD 1929 DATUM
2728.37 NAVD 1988 DATUM (831.6074 M)
2726.19 SUMMERLIN DATUM



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UNDERGROUND SERVICE (USA)

QUANTITIES

STORM DRAIN

NO.	DESCRIPTION	UNIT	TOTAL
1.	STANDARD 4' DIA. MANHOLE	EA	165
2.	24" RCP STORM DRAIN PIPE	LF	2
3.	MODIFIED TYPE "C" DROP INLET (L = 9')	EA	2

WATER

NO.	DESCRIPTION	UNIT	TOTAL
1.	8" WATER	LF	228
2.	3/4" SERVICE	EA	11
3.	METER BOX	EA	11
4.	3/4" METER (FROM L.V.V.W.D.)	EA	11
5.	8" GATE VALVE	EA	1
6.	8" TEE	EA	1
7.	STD. FIRE HYDRANT ASSEMBLY W/ 6" GV	EA	1
8.	8"-45° ELBOW	EA	1
9.	8"-90° ELBOW	EA	1
10.	4" SLEEVE	LF	236

STREET LIGHTS

NO.	DESCRIPTION	UNIT	TOTAL
1.	100 W.H.P.S. LUMINAIRE W/ 11 G.A. POLE	EA	7
2.	250 W.H.P.S. LUMINAIRE W/ 11 G.A. POLE	EA	1170
3.	NO. 1 1/4" PVC CONDUIT	LF	1170

MISCELLANEOUS

NO.	DESCRIPTION	UNIT	TOTAL
1.	STREET NAME SIGN (8" D-3, 2 PER POLE)	EA	3
2.	STOP SIGN W/ POST (30" R1-1)	EA	1
3.	SPEED LIMIT SIGNS	EA	1
4.	4" SLEEVE	LF	236

STREET IMPROVEMENTS

NO.	DESCRIPTION	UNIT	TOTAL
1.	2" AC. PAVEMENT W/ 6" TYPE G.B. UNDER 4" TYPE II G.B.	SF	43,526
2.	STD. 24" "L" TYPE CURB & GUTTER W/ 6" TYPE II G.B.	LF	3,317
3.	4" WIDE CONC. SIDEWALK W/ 4" TYPE II G.B.	SF	2,076
4.	5" WIDE CONC. SIDEWALK W/ 4" TYPE II G.B.	SF	1,020
5.	CONC. SIDEWALK RAMP W/ 4" TYPE II G.B.	SF	236
6.	8" WIDE CONC. VALLEY GUTTER W/ 10" TYPE I OR II G.B.	SF	1,033
7.	16" WIDE CONC. DRIVEWAY	SF	16,960

APPROVALS

CITY OF LAS VEGAS

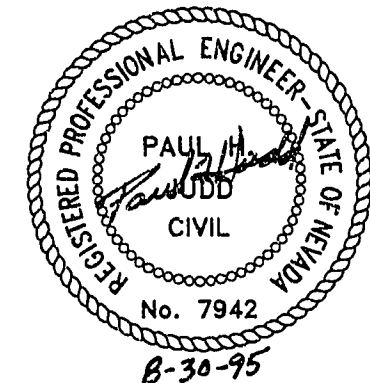
"APPROVAL OF THESE PLANS BY THE CITY ENGINEER IS LIMITED TO THOSE IMPROVEMENTS CONSTRUCTED IN THE DEDICATED RIGHT-OF-WAY AND/OR DEDICATED EASEMENTS. THIS APPROVAL DOES NOT AUTHORIZE THE CONSTRUCTION OF ANY IMPROVEMENTS THAT DEVIATE FROM ADOPTED STANDARDS AND/OR SPECIFICATIONS EXCEPT THOSE SPECIFICALLY LISTED UNDER "DEVIATIONS FROM STANDARDS". THE ENGINEER SHALL RESOLVE ANY DEVIATION OTHER THAN THOSE LISTED IN "DEVIATIONS FROM STANDARDS" IN FAVOR OF THE SUMMERLIN IMPROVEMENT STANDARDS AND SPECIFICATIONS CLARK COUNTY AREA NEVADA."

Dennis Anderson
DENNIS ANDERSON, P.E.
CITY ENGINEER
CITY OF LAS VEGAS, NEVADA
10-18-95
DATE

AGENCIES

REVIEWED BY DATE

L.V. VALLEY WATER DISTRICT SEE SHEET 3
NEVADA POWER CO. *8-31-95*
SOUTHWEST GAS *8-31-95*
SPRINT CENTRAL TELEPHONE-NEVADA *8-31-95*



LEWIS HOMES OF NEVADA
SYCAMORE RIDGE UNIT NO. 4
GENERAL NOTES & MISCELLANEOUS

SHEET

2

SHT 2 OF 2