

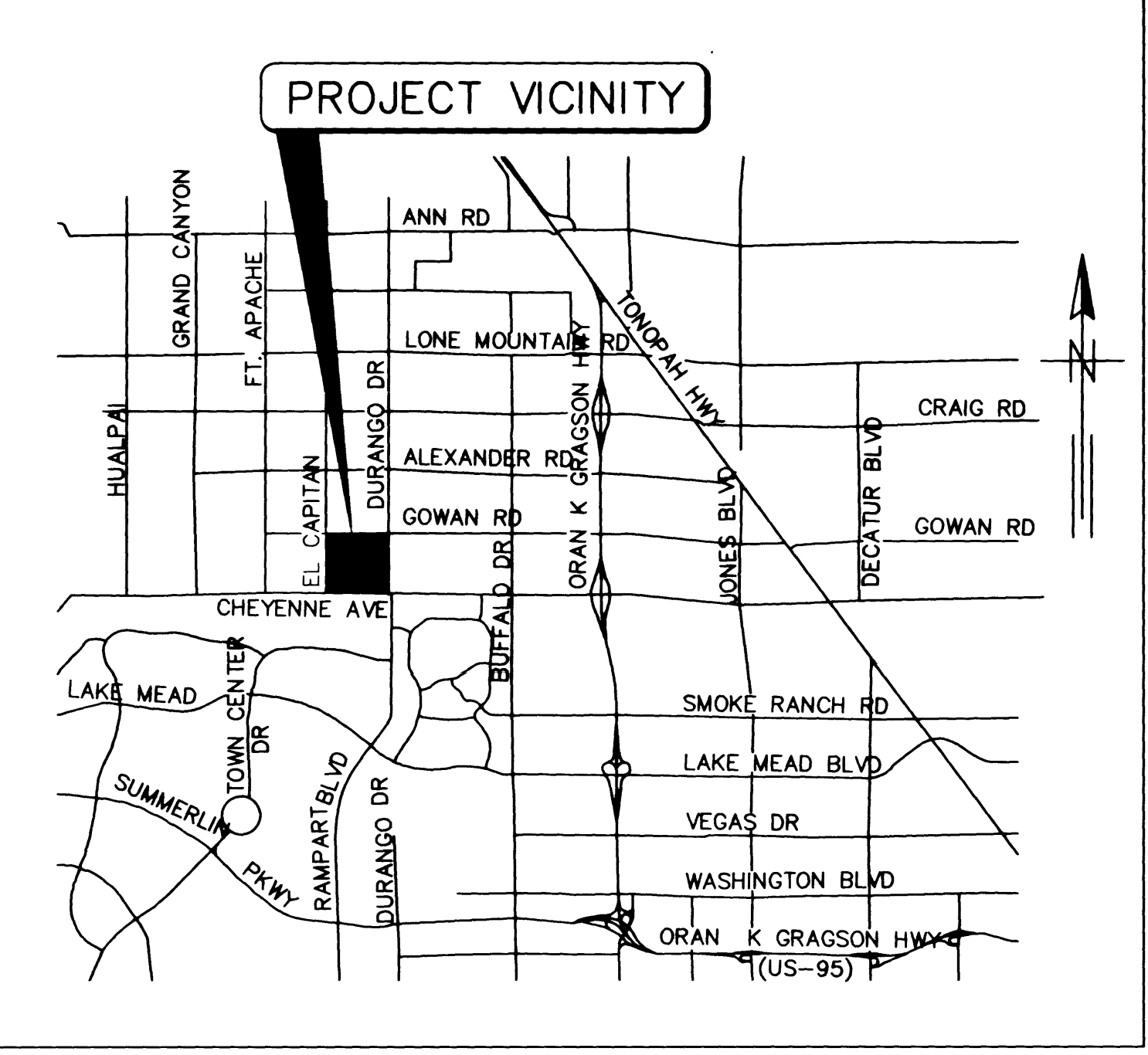
GENERAL NOTES

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 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".
2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE'S WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE 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.
3. 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 SATISFACTORY TO THE CITY ENGINEER OR OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. 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.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED TYPE CURB.
8. AC PAVEMENT TO BE 4" ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS.
9. APPLY FOG SEAL ONLY AFTER ALL CORRECTIONS AND ADJUSTMENTS HAVE BEEN MADE.
10. CURB AND GUTTER WITH A GRADE OF LESS THAN FOUR TENTHS OF ONE PERCENT SHALL BE WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION. ANY CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY SHALL BE REMOVED AND REPLACED.
11. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
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 NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS, OR AS DESIGNATED IN THE FIELD BY A CITY INSPECTOR.
13. 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.
14. 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 EXISTING PAVEMENT CONDITION REQUIRES RELOCATION.
15. 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 ACCORDANCE WITH N.R.S. STATUTE NO. 625.550.
16. 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.
17. 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.
18. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT ON CITY STREETS.

ABBREVIATIONS

ABAN	ABANDON	GM	GAS METER
AIP	ABANDONED IN PLACE	SG	STEEL GAS
AGG	AGGREGATE	GUT	GRADE BREAK
ALT	ALTERNATE	HDWL	GUTTER
A	ANODE, GAS	HP	HEADWALL
ACP	ASBESTOS CEMENT PIPE	IE	HIGH POINT
AC	ASPHALTIC CONCRETE	IN	INVERT ELEVATION
AVE	AVENUE	INT	INCH
BC	BACK OF CURB	INV	INTERSECTION
BCR	BACK OF CURB RADIUS	ISL	INVERT
BLVD	BOULEVARD	LT	ISLAND
BVC	BEGINNING OF VERTICAL CURVE	L	LENGTH OF CURVE
BM	BENCH MARK	LVVWD	LEFT
BDRY LINE	BOUNDARY LINE		LAS VEGAS VALLEY WATER DISTRICT
CATV	CABLE TELEVISION	MH	MANHOLE
C-C	CENTER TO CENTER	MAX	MAXIMUM
CL	CENTERLINE	MIN	MINIMUM
CLV	CITY OF LAS VEGAS	NG	NATURAL GROUND
ONLV	CITY OF NORTH LAS VEGAS	N/O	NORTH OF
CC	CLARK COUNTY	NTS	NOT TO SCALE
CCSD	CLARK COUNTY SANITATION DISTRICT	OC	ON CENTER
CO	CLEANOUT, SEWER	OG	OPEN-GRADED PAVEMENT
COMM	COMMERCIAL	PVMT	PAVEMENT
CONC, PCC	CONCRETE	PI	POINT OF INTERSECTION
CONST	CONSTRUCTION OR CONSTRUCT	PRC	POINT OF REVERSE CURVE
COR	CORNER	PC	POINT OF CURVE
C&G	CURB & GUTTER	PT	POINT OF TANGENCY
CIP	CAST IRON PIPE	PCC	POINT OF COMPOUND CURVE
COL	COLUMN	PCC, CONC	PORTLAND CEMENT CONCRETE
CULV	CULVERT	PKWY	PARKWAY
CF	CURB FACE	PP	POWER POLE
DEPT	DEPARTMENT	P	POWER
DCSWCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTE WATER COLLECTION SYSTEMS	PL	PROPERTY LINE
		PROP	PROPOSED
		PB	PULL BOX
		RP	RADIUS POINT
		R	RADIUS
DIA	DIAMETER	REINF	REINFORCED
DWG	DRAWING	RC	REINFORCED CONCRETE
DWY	DRIVEWAY	RCB	REINFORCED CONCRETE BOX
DI	DROP INLET	RCP	REINFORCED CONCRETE PIPE
ESMT	EASEMENT	RT	RIGHT
E/O	EAST OF	R/W	RIGHT-OF-WAY
EP	EDGE OF PAVEMENT	RD	ROAD
E	ELECTRIC	RTN	RETURN
EM	ELECTRIC METER	SS	SANITARY SEWER
ELEV	ELEVATION	SHT	SHEET
EMBK	EMBANKMENT	S/O	SOUTH OF
ECR	END OF CURB RETURN	SW	SIDEWALK
EC	END OF CURVE	SQ FT, SF	SQUARE FOOT
EVC	END OF VERTICAL CURVE	SQ YD, SY	SQUARE YARD
EX BLDG	EXISTING BUILDING CORNER	ST	STREET
EX FNC	EXISTING FENCE	STA	STATION
EX FNC-COR	EXISTING FENCE CORNER	SD	STORM DRAIN
EX LS	EXISTING LANDSCAPE	STD	STANDARD
EX TC-AP	TOP OF CURB - ANGLE POINT	STRUCT	STRUCTURAL OR STRUCTURE
EXIST	EXISTING	SL	STREET LIGHT
FT	FEET OR FOOT	T	TELEPHONE
FG	FINISH GRADE	TEMP	TEMPORARY
FA	FIRE ALARM	TC	TOP OF CURB
FF	FINISH FLOOR	TOE	BOTTOM OF SLOPE
FH	FIRE HYDRANT	TG	TOP OF GRATE
FL	FLOWLINE	TOS	TOP OF SLAB
GALV	GALVANIZED	TP	TOP OF PIPE
		TS	TRAFFIC SIGNAL

VICINITY MAP



TSI	TRAFFIC SIGNAL
TRANS	INTERCONNECT
TYP	TRANSITION
UG	TYPICAL
UG	UNDERGROUND
VERT	VERTICAL
VC	VERTICAL CURVE
VG	VALLEY GUTTER
VCP	VITRIFIED CLAY PIPE
W	WATER
WM	WATER METER
W/O	WEST OF
YD	YARD
USD	UNIFORM STD DWG FOR PUBLIC WORKS CONSTRUCTION CLARK COUNTY AREA

OFF-SITE WATER NOTES

LVVWD STANDARD NOTES

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, 48 HOURS NOTICE SHALL BE GIVEN TO THE LVVWD CUSTOMER SERVICE DEPARTMENT (258-7171) PRIOR TO THE START OF CONSTRUCTION. NOTICE MUST BE GIVEN TO 2:00 PM, THE BUSINESS DAY PRIOR TO A LVVWD INSPECTION.
2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, LATEST EDITION AND THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS. (UDACS)
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE A COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
8. THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT A WATER LINE AND SANITARY OR STORM SEWER LINE CROSS:

A. MINIMUM EIGHTEEN (18) INCH VERTICAL SEPARATION (OUTSIDE TO OUTSIDE) MUST BE MAINTAINED OR THE WATER LINE IS INSTALLED OVER THE SANITARY OR STORM SEWER LINE. IF THE VERTICAL SEPARATION CANNOT BE MAINTAINED OR THE WATER LINE MUST BE PLACED UNDER THE SANITARY OR STORM SEWER LINE, THE SANITARY OR STORM SEWER LINE MUST BE CONSTRUCTED WITH ONE OF THE FOLLOWING OR, AS SHOWN ON THESE PLANS:

A. POTABLE WATER SUPPLY QUALITY MATERIAL.
B. ENCASEMENT, WITH FOUR (4) INCH CONCRETE (MINIMUM).
C. SLEEVING WITH POTABLE WATER SUPPLY QUALITY PIPE.
9. WARNING TAPE SHALL BE REQUIRED OVER ALL MAINS, ALL SIX (6) INCH DIAMETER AND LARGER SERVICE LATERALS, AND ANY SERVICE LATERAL NOT INSTALLED PERPENDICULAR TO THE MAIN IN ACCORDANCE WITH STANDARD PLATE NO. 27.
10. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD'S DISTRIBUTION SYSTEM.
11. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICK UP.
12. CONSTRUCTION MAY INTERRUPT SERVICE, WITH LVVWD APPROVED AND PROPER NOTIFICATION, BETWEEN THE HOURS OF 10 PM AND 6 AM, SUNDAY THROUGH THURSDAY. CIRCUMSTANCES MAY REQUIRE TEMPORARY SERVICE FEED BE INSTALLED WITHOUT LVVWD REIMBURSEMENT. ANY TEMPORARY SERVICE FEED MUST HAVE PRIOR LVVWD APPROVAL.
13. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD'S PRE-APPROVED MATERIALS AND MANUFACTURERS LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.
14. WATER METERS FOR THE CITY OF LAS VEGAS NORTHWEST FAMILY RECREATION CENTER TO BE INSTALLED PRIOR TO PAVEMENT CONSTRUCTION FOR DURANGO DRIVE FROM CHEYENNE AVENUE TO GOWAN ROAD.

APPROVED FOR CONSTRUCTION		ESN.018
LAS VEGAS VALLEY WATER DISTRICT		DATE
PROJ NO.	7190	
DWG	PDG 2	
SHEET	92	OF 13
DATE	06.16.98	REV 0

POGGEMEYER DESIGN GROUP
ENGINEERS PLANNERS SURVEYORS
LANDSCAPE ARCHITECTS
2601 NORTH TENAYA WAY
LAS VEGAS, NEVADA 89128 (702) 255-8100

DESIGNED	SW	APPROVED	STEPHEN L. WEATHERMAN PROFESSIONAL ENGINEER, STATE OF NEVADA No. 9286
DRAWN	FT		
CHECKED	MBH		
		NO.	DATE
		APPD	REVISION

CITY OF LAS VEGAS, NEVADA
DEPARTMENT OF PUBLIC WORKS
NORTHWEST WATER RESOURCE CENTER
100% DESIGN

GENERAL NOTES

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