

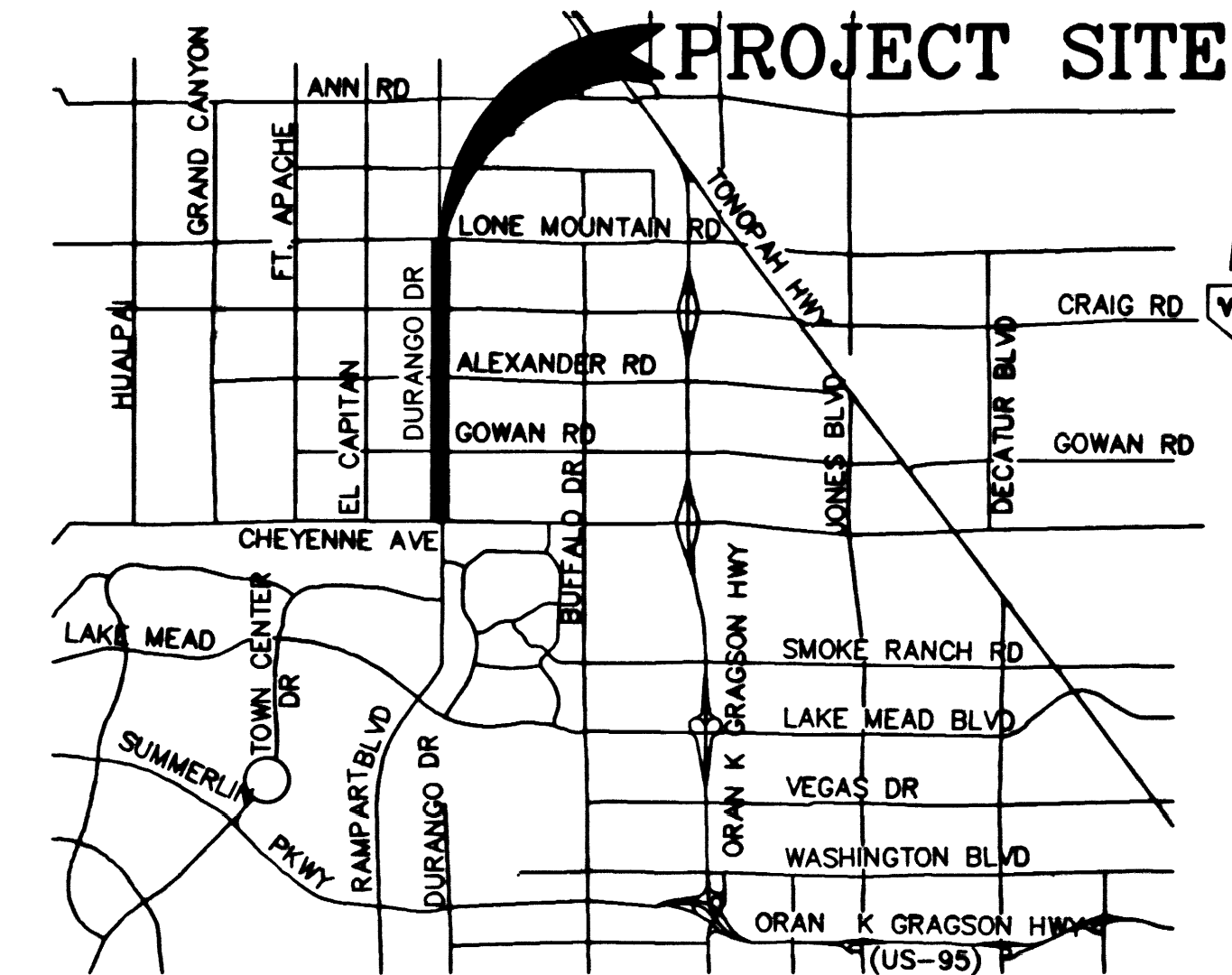
GENERAL NOTES

GENERAL LEGEND

- 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".
- 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 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 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 REPLACES SATISFACTORY 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.
- 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 ENGINEER 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 300' IN EXTRUDED TYPE CURB.
- AC PAVEMENT TO BE FLUSH WITH LIP OF ALL GUTTERS AFTER COMPACTION, INCLUDING SIDEWALK RAMPS.
- 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.
- SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTIONS PER STANDARD DRAWING 235. 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 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 ACCORDANCE 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:
 - ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN FOR THE PURPOSE OF GRADING RELATIONSHIPS.
 - 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 ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT ON CITY STREETS.

-----	EXISTING CURB & GUTTER	=====	PROPOSED CURB & GUTTER
-----	EXISTING EDGE OF PAVEMENT	=====	PROPOSED EDGE OF PAVEMENT
-----	EXISTING RIGHT-OF-WAY	-----X-----	PROPOSED FENCE LINE
-----CATV-----	EXISTING CABLE TELEVISION LINE(S)	=====	PROPOSED STORM DRAIN
-----4" G-----	EXISTING GAS LINE (SIZE VARIES)	=====	PROPOSED DROP INLET
-----12" SS-----	EXISTING SEWER LINE (SIZE VARIES)	=====	PROPOSED WATER METER
-----8" W-----	EXISTING WATER LINE (SIZE VARIES)	=====	PROPOSED VALVE
-----T-----	EXISTING TELEPHONE CABLE/CONDUIT(S)	=====	PROPOSED FIRE HYDRANT
-----18" SD-----	EXISTING STORM DRAIN (SIZE VARIES)	=====	PROPOSED STREET SIGN
-----TRAF-----	EXISTING TRAFFIC SIGNAL WIRE AND/OR CONDUIT	=====	PROPOSED STREET LIGHT
-----UGE-----	EXISTING UNDERGROUND ELECTRIC LINE(S)	=====	PROPOSED POLE LIGHT
-----X-----	EXISTING FENCE LINE	=====	PROPOSED PULL BOX
=====	EXISTING WATER METER	=====	PROPOSED UTILITY VAULT OR CABINET
=====	EXISTING VALVE	=====	PROPOSED TRAFFIC CONTROL SERVICE PEDESTAL
=====	EXISTING FIRE HYDRANT	=====	PROPOSED SIDEWALK RAMP
=====	EXISTING MANHOLE	=====	
=====	EXISTING POLE w/ GUY WIRE AND ANCHOR	=====	
=====	EXISTING STREET SIGN	=====	
=====	EXISTING STREET LIGHT	=====	
=====	EXISTING POLE LIGHT	=====	
=====	EXISTING PULL BOX	=====	
=====	EXISTING UTILITY VAULT OR CABINET	=====	
=====	EXISTING TRAFFIC CONTROL SERVICE PEDESTAL	=====	
=====	EXISTING SIDEWALK RAMP	=====	

2 working days
Call before you Dig
1-800-227-2600



VICINITY MAP

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS PROJECT IS GRID NORTH AS DEFINED BY THE NEVADA COORDINATE SYSTEM OF 1983 (NCS83), EAST ZONE, (2701), DETERMINED BY CLARK COUNTY GIS CONTROL POINTS 808, 819, AND 877, AS SHOWN ON A RECORD OF SURVEY ON FILE IN THE CLARK COUNTY, NEVADA, RECORDER'S OFFICE, IN BOOK 88 OF SURVEYS, AT PAGE 53.

VTN PROJECT BENCHMARK

PROJECT DATUM: NAVD88

CITY OF LAS VEGAS BENCHMARK 1LV90-33SES
NAVD88 ELEVATION: 717.2083 METERS (2353.04 FEET) - VTN
(POGGEMEYER - 2352.87)

RIVET AND PLATE IN A CONCRETE ELECTRICAL VAULT AT THE NORTHWEST CORNER OF BUFFALO DRIVE AND LONE MOUNTAIN ROAD.

POGGEMEYER DESIGN GROUP * PROJECT BENCHMARK

CITY OF LAS VEGAS BENCHMARK 0LV00-17NEE6, RIVET AND PLATE ON TOP OF CURB, RAMPART BLVD. AND LAZERETTE DRIVE, WEST CURB LINE.

POGGEMEYER ELEVATION TAKEN AS 2468.64 FEET (752.4415 m).
(VTN ELEVATION: 2468.81 FEET)

ABBREVIATIONS

ABAN	ABANDON	E or ELEC	ELECTRIC	MAX	MAXIMUM	S	SEWER	USD	UNIFORM STD DWG FOR PUBLIC WORKS CONSTRUCTION CLARK COUNTY AREA
AC	ASPHALTIC CONCRETE	ECR	END OF CURVE	MIN	MINIMUM	SD	STORM DRAIN		
ACP	ASBESTOS CEMENT PIPE	ELEV or EL	ELEVATION			SDMH	STORM DRAIN MANHOLE		
AGG	AGGREGATE	EM	ELECTRIC METER	NG	NATURAL GROUND	SHT	SHEET		
AIP	ABANDONED IN PLACE	EMBK	EMBANKMENT	N/O	NORTH OF	SSMH	SANITARY SEWER MANHOLE		
ALT	ALTERNATE	EP	EDGE OF PAVEMENT	NTS	NOT TO SCALE	SL or STLT	STREET LIGHT		
AVE	AVENUE	ESMT	EASEMENT			SS	SANITARY SEWER		
		ETRANS	ELECTRIC TRANSFORMER	OC	ON CENTER	SQ FT, SF	SQUARE FOOT		
BC	BACK OF CURB	EVC	END OF VERTICAL CURVE	OG	OPEN-GRADED PAVEMENT	SQ YD, SY	SQUARE YARD		
BC-BC	BACK OF CURB TO BACK OF CURB	EVCE	END OF VERTICAL CURVE ELEVATION			ST	STREET		
BCR	BEGIN CURB RETURN	EVCS	END OF VERTICAL CURVE STATION	P	POWER	STA	STATION		
BLVD	BOULEVARD	EXIST	EXISTING	PB	PULL BOX	STD	STANDARD		
BLVD	BOULEVARD	EX BLDG	EXISTING BUILDING CORNER	PC	POINT OF CURVE	STRUCT	STRUCTURAL OR STRUCTURE		
BM	BENCH MARK	EX FNC	EXISTING FENCE	PCC	POINT OF COMPOUND CURVE	SW	SIDEWALK		
BO	BLOW-OFF	EX FNC-COR	EXISTING FENCE CORNER	PCC, CONC	PORTLAND CEMENT CONCRETE				
BVC	BEGINNING OF VERTICAL CURVE	EX LS	EXISTING LANDSCAPE	PG	PORTLAND CEMENT CONCRETE	T	TELEPHONE		
BVCE	BEGINNING OF VERTICAL CURVE ELEVATION	EX TC-AP	TOP OF CURB - ANGLE POINT	PI	POINT OF INTERSECTION	TBC	TOP BACK OF CURB		
BVCS	BEGINNING OF VERTICAL CURVE STATION			PKWY	PARKWAY	TC	TOP OF CURB		
		FA	FIRE ALARM		PROPERTY LINE	TEMP	TEMPORARY		
CATV	CABLE TELEVISION	FC	FACE OF CURB			TG	TOP OF GRATE		
C-C	CENTER TO CENTER	FF	FINISH FLOOR			TMH	TELEPHONE MANHOLE		
CC	CLARK COUNTY	FG	FINISH GRADE			TOE	BOTTOM OF SLOPE		
CCSD	CLARK COUNTY SANITATION DISTRICT	FH	FIRE HYDRANT			TOS	TOP OF SLAB		
C or CL	CENTERLINE	E	FLOWLINE			TPFC	TOP OF PAVEMENT @ FACE OF CURVE		
OF	CURB FACE	FT	FEET OR FOOT			TRANS	TRANSITION		
QIP	CAST IRON PIPE	FUT	FUTURE			TS	TRAFFIC SIGNAL		
CLV	CITY OF LAS VEGAS					TSI	TRAFFIC SIGNAL INTERCONNECT		
CMP	CORRUGATED METAL PIPE					TRANS	TRANSITION		
CNLV	CITY OF NORTH LAS VEGAS					TVLT	TELEPHONE VAULT		
CO	CLEANOUT, SEWER					TYP	TYPICAL		
COL	COLUMN								
COMM	COMMERCIAL								
CONC, PCC	CONCRETE								
CONST	CONSTRUCTION or CONSTRUCT								
COR	CORNER								
C&G or C/G	CURB & GUTTER								
CULV	CULVERT								
DCSWCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTE WATER COLLECTION SYSTEMS								
DEPT	DEPARTMENT								
DI	DRAWING								
DWG	DRAWING								
DWY	DRIVEWAY								

MAX	MAXIMUM	S	SEWER	USD	UNIFORM STD DWG FOR PUBLIC WORKS CONSTRUCTION CLARK COUNTY AREA
WH	WHOLE	SD	STORM DRAIN		
MIN	MINIMUM	SDMH	STORM DRAIN MANHOLE		
		SHT	SHEET		
NG	NATURAL GROUND	SSMH	SANITARY SEWER MANHOLE		
N/O	NORTH OF	SL or STLT	STREET LIGHT		
NTS	NOT TO SCALE	SS	SANITARY SEWER		
		SQ FT, SF	SQUARE FOOT		
OC	ON CENTER	SQ YD, SY	SQUARE YARD		
OG	OPEN-GRADED PAVEMENT	ST	STREET		
		STA	STATION		
P	POWER	STD	STANDARD		
PB	PULL BOX	STRUCT	STRUCTURAL OR STRUCTURE		
PC	POINT OF CURVE	SW	SIDEWALK		
PCC	POINT OF COMPOUND CURVE				
PCC, CONC	PORTLAND CEMENT CONCRETE				
PG	PORTLAND CEMENT CONCRETE				
PI	POINT OF INTERSECTION				
PKWY	PARKWAY				
	PROPERTY LINE				
PP	POWER POLE				
PCC	POINT ON CURVE				
POT	POINT ON TANGENT				
PRC	POINT OF REVERSE CURVE				
PROP	PROPOSED				
PT	POINT OF TANGENCY				
PM	POINT OF VERTICAL INTERSECTION				
PVMT	PAVEMENT				
R	RADIOS				
RC	REINFORCED CONCRETE				
RCB	REINFORCED CONCRETE BOX				
RCP	REINFORCED CONCRETE PIPE				
RD	ROAD				
REINF	REINFORCED				
RGRCP	RUBBER GASKETED REINFORCED CONCRETE PIPE				
RGRHRC	RUBBER GASKETED HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE				
RP	RADIOS POINT				
RT	RIGHT				
RTN	RETURN				
R/W	RIGHT-OF-WAY				
RWDS	RECLAIMED WATER DELIVERY SYSTEM				

SEWER	SEWER	USD	UNIFORM STD DWG FOR PUBLIC WORKS CONSTRUCTION CLARK COUNTY AREA
STORM DRAIN	STORM DRAIN		
STORM DRAIN MANHOLE	STORM DRAIN MANHOLE		
SHEET	SHEET		
SANITARY SEWER MANHOLE	SANITARY SEWER MANHOLE		
STREET LIGHT	STREET LIGHT		
SANITARY SEWER	SANITARY SEWER		
SQUARE FOOT	SQUARE FOOT		
SQUARE YARD	SQUARE YARD		
STREET	STREET		
STATION	STATION		
STANDARD	STANDARD		
STRUCTURAL OR STRUCTURE	STRUCTURAL OR STRUCTURE		
SIDEWALK	SIDEWALK		
TELEPHONE	TELEPHONE		
TOP BACK OF CURB	TOP BACK OF CURB		
TOP OF CURB	TOP OF CURB		
TEMPORARY	TEMPORARY		
TOP OF GRATE	TOP OF GRATE		
TELEPHONE MANHOLE	TELEPHONE MANHOLE		
BOTTOM OF SLOPE	BOTTOM OF SLOPE		
TOP OF SLAB	TOP OF SLAB		
TOP OF PAVEMENT @ FACE OF CURVE	TOP OF PAVEMENT @ FACE OF CURVE		
TRANSITION	TRANSITION		
TRAFFIC SIGNAL	TRAFFIC SIGNAL		
TRAFFIC SIGNAL INTERCONNECT	TRAFFIC SIGNAL INTERCONNECT		
TRANSITION	TRANSITION		
TELEPHONE VAULT	TELEPHONE VAULT		
TYPICAL	TYPICAL		
UNDERGROUND	UNDERGROUND		
UNIFORM STANDARD DRAWING	UNIFORM STANDARD DRAWING		
VERTICAL	VERTICAL		
VALLEY GUTTER	VALLEY GUTTER		
VITRIFIED CLAY PIPE	VITRIFIED CLAY PIPE		
WATER	WATER		
WATER BLOW-OFF VALVE	WATER BLOW-OFF VALVE		
WATER METER	WATER METER		
WATER VAULT MANHOLE	WATER VAULT MANHOLE		
WEST OF	WEST OF		
WATER VALVE	WATER VALVE		
YARD	YARD		

DRAWING INDEX

DWG NO.	SHT NO.	TITLE
11	1	TITLE / COVER SHEET AND APPROVALS
12	2	GENERAL NOTES, LEGEND, DRAWING INDEX, AND ABBREVIATIONS
13 - 16	3-6	SURVEY CONTROL PLAN
D1	7	MEDIAN ISLAND AND PAVEMENT MILLING DETAILS
D2 - D4	8-10	TYPICAL X-SECTIONS
D5 - D24	11-30	DETAILS
R1 - R12	31-42	ROADWAY PLAN & PROFILE
R13 - R16	43-46	INTERSECTION GRADING PLANS
R17 - R21	47-51	MEDIAN ISLAND GEOMETRICS AND IRRIGATION PLAN
SD1 - SD13	52-64	STORM DRAIN PLAN & PROFILE
SD14 - SD18	65-69	STORM DRAIN LATERAL PROFILES
SS1 - SS8	70-75	SANITARY SEWER PLAN & PROFILE
T1 - T10	76-85	STRIPING AND STREET LIGHTING PLAN
T11 - T15	86-90	TRAFFIC SIGNAL

NORTHWEST WATER RESOURCE CENTER PLANS *

DWG NO.	SHT NO.	TITLE
PDG1 - PDG13	91-103	PREPARED BY POGGEMEYER DESIGN GROUP
ISO1	104	PREPARED BY GREELEY AND HANSEN ENGINEERS
RSO1 - RSO2	105-106	PREPARED BY GREELEY AND HANSEN ENGINEERS

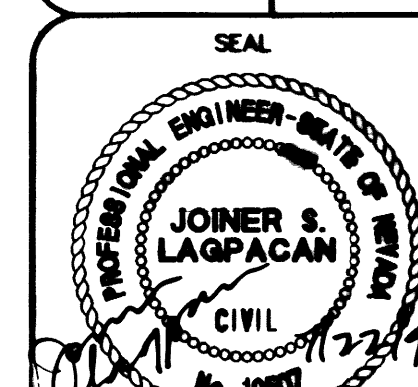
* BENCHMARK APPLIES TO POGGEMEYER & GREELEY AND HANSEN DRAWINGS

DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS

CONSULTING ENGINEERS • PLANNERS • LAND SURVEYORS
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89102-5148 PHONE (702) 873-7550 FAX (702) 362-2597

GENERAL NOTES, LEGEND
DRAWING INDEX AND
ABBREVIATIONS

PROJECT DURATION DRIVE IMPROVEMENTS
CHEYENNE AVENUE TO LONE MOUNTAIN ROAD



NO. NO.	5249
BY	WBM
DATE	07/17/98
SCALE	HORIZ. NONE VERT. NONE
DRAWING	12
SHEET	106