

# GENERAL NOTES

## GENERAL REQUIREMENTS

- 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; ANY 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 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 OPERATION SHALL BE REPAIRED OR REPLACED 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 PSI MINIMUM AT 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 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 1/2" ABOVE LIP OF ALL GUTTER & VALLEY GUTTER AFTER COMPACTION.
- APPLY FOG SEAL ONLY AFTER ALL CORRECTIONS AND ADJUSTMENTS HAVE BEEN MADE.
- CURB & 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 INTERSECTION 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 DESIGNED IN THE FIELD BY A CITY INSPECTOR.
- ALL GRADING WORK SHALL CONFORM TO THE GRADES AND DETAILS 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 CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT ON CITY STREETS.
- THE CONTRACTOR SHALL EXAMINE THE DRAWINGS BEFORE PROCEEDING WITH WORK. HE SHALL INFORM THE ENGINEER OF ANY OMISSIONS OR CONFLICTS DISCOVERED BEFORE PROCEEDING WITH ANY AFFECTED WORK.
- CONTRACTOR TO NOTIFY PROPERTY OWNERS 24 HOURS PRIOR TO INTERRUPTION OF WATER SERVICE. INTERRUPTION OF SERVICE SHALL ONLY OCCUR WITH THE APPROVAL OF LAS VEGAS VALLEY WATER DISTRICT.
- THE CONTRACTOR SHALL NOT BACKFILL ANY TRENCHES IN WHICH WATER LINES HAVE BEEN UNCOVERED UNTIL THE WATER LINES HAVE BEEN INSPECTED BY THE CITY OF LAS VEGAS INSPECTORS. THE CITY OF LAS VEGAS, UTILITY DIVISION SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF CONSTRUCTION IN THE VICINITY OF WATER LINES.
- THE CONTRACTOR SHALL, AT HIS EXPENSE, LOCATE ALL 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 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.
- ALL UTILITY COMPANIES SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 48 (FORTY-EIGHT) HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL UTILITIES LOCATED UNDER EXISTING OR PROPOSED STORM DRAINS, CHANNELS, ETC. WILL BE CONCRETE ENCASED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES AND EXISTING STRUCTURES DURING CONSTRUCTION.

- THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING CONSTRUCTION AND TEMPORARY EASEMENTS OUTSIDE OF THE EXISTING RIGHT-OF-WAY FOR THE CONSTRUCTION OF THIS JOB.
- ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS" CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, "STATE OF NEVADA TRAFFIC CONTROL MANUAL", AND "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- THE NEVADA POWER COMPANY SHALL BE RESPONSIBLE FOR THE RELOCATION OF UNDERGROUND POWER LINES THAT INTERFERE WITH THE REQUIRED IMPROVEMENTS AS SHOWN ON THE CONTRACT DRAWINGS.
- BASIS OF BEARINGS: S 89°56'51" E - BEING THE SOUTH LINE OF THE S.E. 1/4 OF THE S.W. 1/4 OF SECTION 10, T.20S., R.60E., M.D.B. & M.
- BASIS OF ELEVATION: 7000-1104-DRIVE RIVET IN A 2"x2" ALUMINUM PLATE, IN TOP OF CURB, NORTHWEST CORNER OF GOWEN ROAD AND TORREY PINES DRIVE. ELEVATION: 2284.34

## WATER NOTES

- NO WORK SHALL BEGIN ON WATER PLANS UNTIL THEY HAVE BEEN RELEASED FOR CONSTRUCTION BY THE CITY OF LAS VEGAS. FOLLOWING APPROVAL OF THE PLANS.
- CALL BEFORE YOU DIG 1-800-227-2600.
- ALL WORK SHALL CONFORM TO LVVWD LATEST STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS.
- ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE 3, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA.
- THE MAXIMUM ALLOWABLE JOINT DEFLECTION FOR ACP AND DUCTILE IRON PIPE SHALL BE AS FOLLOWS:

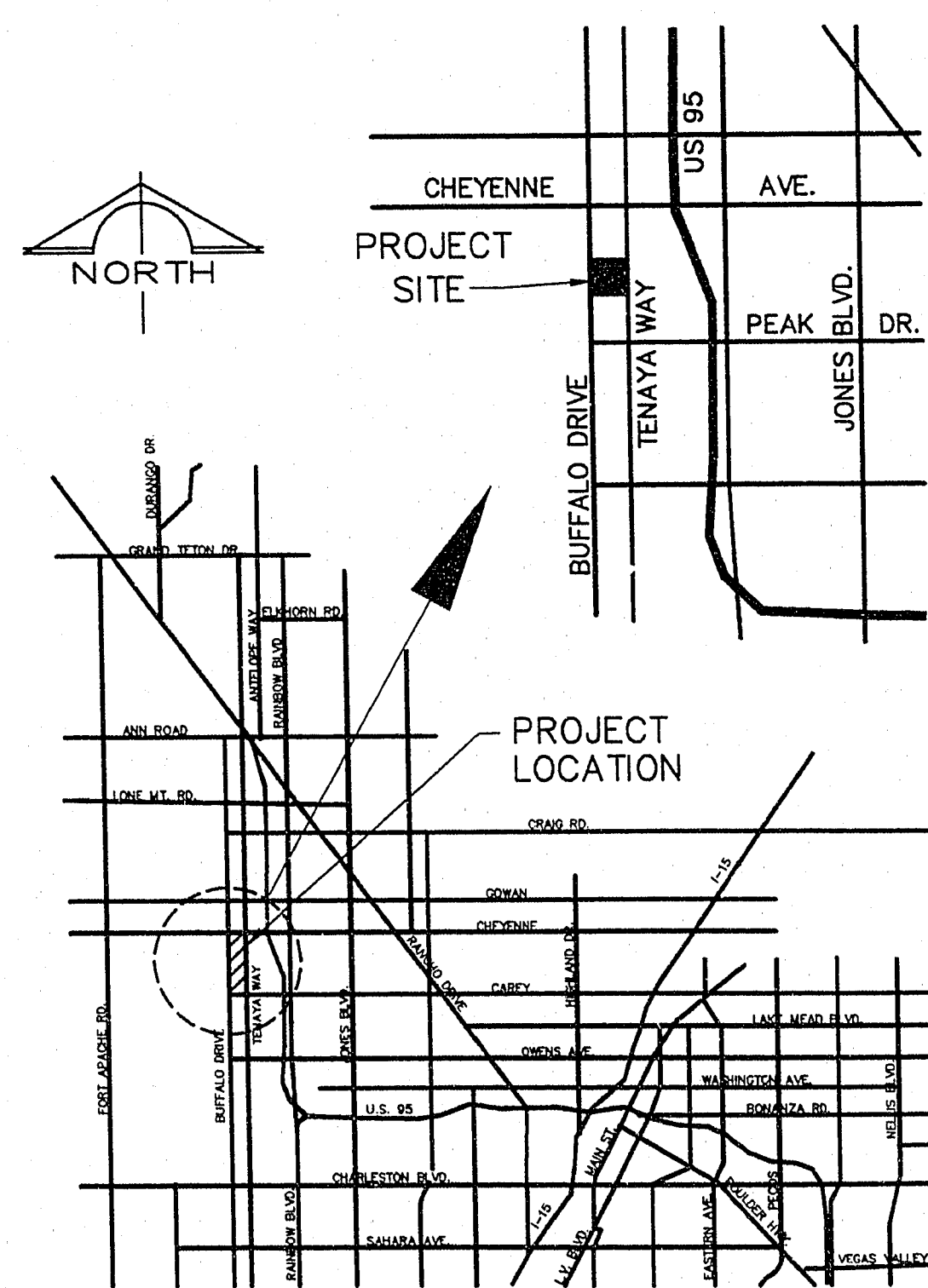
PIPE SIZES	ACP	DUCTILE IRON SLIP JOINT	DUCTILE IRON MECHANICAL JOINT
6 INCH	2.5 DEGREES	2.5 DEGREES	3.5 DEGREES
8 - 12 INCH	2.5 DEGREES	2.5 DEGREES	2.5 DEGREES
14 - 16 INCH	2 DEGREES	1.5 DEGREES	1.5 DEGREES
18 - 24 INCH	N/A	1.5 DEGREES	1.5 DEGREES

ON PVC PIPE, THE MAXIMUM OFFSET FOR A 20' LENGTH OF FACTORY BELLED PIPE SHALL BE 16 INCHES FOR 6" PIPE, 12 INCHES FOR 8" PIPE, AND 9 INCHES FOR 10" AND 12" PIPE.

IF THESE OFFSETS CONFLICT WITH THE PIPE MANUFACTURERS RECOMMENDATION, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

- ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS AND VALLEY GUTTERS.

## VICINITY MAP



# SEWER NOTES

## CITY OF LAS VEGAS SANITARY SEWER NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "DESIGN AND 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 SUPERCEDE 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 SDR 35 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" DIAMETER SIZE. CONNECTIONS 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 ON 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.

## LEGEND

- M.H. EXISTING MANHOLE
- F.H. EXISTING FIRE HYDRANT
- P.P. EXISTING POWER POLE
- W — EXISTING WATER LINE
- G — EXISTING GAS LINE
- EOH — EXISTING OVERHEAD ELECTRICAL LINE
- SS — EXISTING SANITARY SEWER LINE
- SD — EXISTING STORM DRAIN LINE
- T — EXISTING UNDERGROUND TELEPHONE
- EUG — EXIST. UNDERGROUND ELECTRICAL
- XX — EXISTING CONTOUR
- X — X — EXISTING CHAIN-LINK FENCE
- (XX.XX) — EXISTING ELEVATION
- — — CENTERLINE
- — — EDGE OF EXISTING PAVEMENT
- — — PROPERTY LINE OR RIGHT-OF-WAY
- — — CONSTRUCTION PHASE LINE
- M.H. PROPOSED MANHOLE
- W — PROPOSED WATER LINE
- SS — PROPOSED SANITARY SEWER LINE
- SD — PROPOSED STORM DRAIN LINE
- XX.XX — PROPOSED ELEVATION
- ⊗ PROPOSED GATE VALVE
- — — PROPOSED SIGN

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- C1.05 UTILITY PLAN VEHICLE FUELING
- C1.06 DETAILS & GATE CARD READER

# ABBREVIATIONS

ABAN	ABANDON	LT	LEFT
AIR	ABANDONED IN PLACE	LVVWD	LAS VEGAS VALLEY WATER DISTRICT
AGG	AGGREGATE	MANH	MANHOLE
ALT	ALTERNATE	MAX	MAXIMUM
A	ANODE, GAS	MIN	MINIMUM
ACP	ASBESTOS CEMENT PIPE	MON	MONOLITHIC
AC	ASPHALTIC CONCRETE	N/D	NORTH OF
AVE	AVENUE	NTS	NOT TO SCALE
BC	BACK OF CURB	DN	DOWN CENTER
BGR	BACK OF CURB RADIUS	PG	OPEN-GRADED PAVEMENT
BVC	BEGINNING OF VERTICAL CURVE	PI	POINT OF INTERSECTION
BW	BENCH MARK	PRC	POINT OF REVERSE CURVE
BBRY LINE	BOUNDARY LINE	PC	POINT OF CURVE
CATV	CABLE TELEVISION	PT	POINT OF TANGENCY
C-C	CENTER TO CENTER	PCC	POINT OF COMPOUND CURVE
E	CENTERLINE	PCC, CONC	PORTLAND CEMENT CONCRETE
CB	CITY OF BOULDER CITY	PP	POWER POLE
CLV	CITY OF LAS VEGAS	P	POVER
CDH	CITY OF HENDERSON	P	PROPERTY LINE
CH	CITY OF MESQUITE	PRCP	PROPOSED
CNLV	CITY OF NORTH LAS VEGAS	PS	PULL BOX
CC	CLARK COUNTY	RP	RADIUS POINT
CCSD	CLARK COUNTY SANITATION DISTRICT	R	RADIUS
CD	CLEANDIT, SEWER	RR	RAILROAD
CDM	COMMERCIAL CONCRETE	REINF	REINFORCED
CDNC, PCC	CONCRETE CONSTRUCTION OR CONSTRUCT	RC	REINFORCED CONCRETE
CDS	CONCRETE	RCD	REINFORCED CONCRETE BOX
CDR	CORRUGATED METAL PIPE	RELOC	RELOCATE
CMP	CORRUGATED STEEL	RT	RIGHT
CSAP	CORRUGATED STEEL ARCH PIPE	R/W	RIGHT-OF-WAY
CSP	CORRUGATED STEEL PIPE	RD	ROAD
CAG	CURB & GUTTER	RTN	RETURN
CIP	CAST IRON PIPE	SS	SANITARY SEWER
COL	COLUMN	SHT	SHEET
CU YD, CY	CUBIC YARD	S/D	SOUTH OF
CU FT, CF	CUBIC FOOT	S/V	SIDEWALK
CULV	CULVERT	SQ FT, SF	SQUARE FOOT
CF	CURB FACE	SQ YD, SY	SQUARE YARD
DEPT	DEPARTMENT	STA	STATION
DIA	DIAMETER	SHP	STEEL HIGH-PRESSURE PIPE
DIV	DRIVEWAY	SD	STORM DRAIN
DI	DROP INLET	STD	STANDARD
DSMT	EASEMENT	STRUCT	STRUCTURAL DR STRUCTURE
E/D	EAST OF	SURV	SURVEY
EP	EDGE OF PAVEMENT	SL	STREETLIGHT
E	EDGE OF OIL	T	TELEPHONE
E	ELECTRIC	TEMP	TEMPORARY
EM	ELECTRIC METER	TBA	TO BE ADJUSTED
ELEV	ELEVATION	TBR	TO BE REMOVED
EMBK	EMBANKMENT	TC	TOP OF CURB
ECR	END OF CURB RETURN	TP	TOP OF PIPE
EC	END OF CURVE	TS	TRAFFIC SIGNAL
EVC	END OF VERTICAL CURVE	TSI	TRAFFIC SIGNAL INTERCONNECT
EXIST	EXISTING	TRANS	TRANSITION
FT	FEET OR FOOT	TYP	TYPICAL
FG	FINISH GRADE	UG	UNDERGROUND
FA	FIRE ALARM	USD	UNIFORM STANDARD DRAWING
FH	FIRE HYDRANT	VAR	VARIABLE
E	FLOWLINE	VERT	VERTICAL
GALV	GALVANIZED	VC	VERTICAL CURVE
GM	GAS METER	VG	VALLEY GUTTER
GR	GAS PRESSURE REGULATOR	VCP	VITRIFIED CLAY PIPE
PL-G	PLASTIC GAS	V	VALVE
S-G	STEEL GAS	VM	WATER METER
GB	GRADE BREAK	W/D	WEST OF
GUT	GUTTER	YD	YARD
HDWL	HEADWALL		
IN	INCH		
INT	INTERSECTION		
INV	INVERT		
ISL	ISLAND		
JB	JUNCTION BOX		
LDC	LENGTH OF CURB		

## SYMBOLS

- & AND
- ⊕ DIAMETER
- NDT TO SCALE
- # NUMBER

## APPROVALS

<i>Dennis Anderson</i>	2-9-96
CITY ENGINEER, DENNIS ANDERSON, P.E.	DATE
<i>James McCall</i>	9-13-95
CITY OF LAS VEGAS FIRE MARSHAL	DATE
<i>Charles McCall</i>	9-6-95
SOUTHWEST GAS COMPANY	DATE
<i>Spring-Centel</i>	9-6-95
SPRING-CENTEL TELEPHONE COMPANY	DATE
<i>Janita Padugay</i>	9-7-95
NEVADA POWER COMPANY	DATE

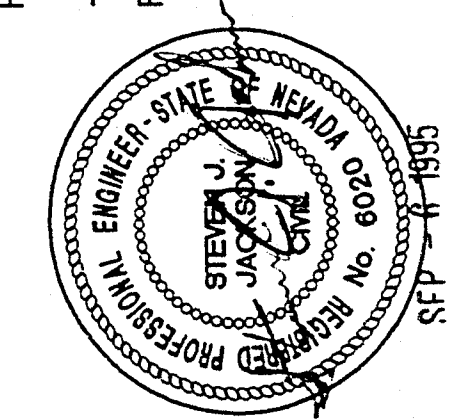
## DEVIATIONS FROM STD. DWGS.

NONE

## OFFSITE QUANTITIES

FIRE HYDRANT	1 EA.	4" CONC SIDEWALK	320 S.F.
RELOCATE FIRE HYDRANT	1 EA.	SIDEWALK RAMP	8 EA.
REMOVE EXIST CURB & GUTTER	495 L.F.	CONC PAVING (TRUCK TURNOUT)	98 S.F.
REMOVE EXIST CONC SIDEWALK	2225 S.F.	TYPE II AGGREGATE BASE	125 S.F.
ROTOMILL EXIST A.C.	412 S.Y.	2" A.C. PAVING	412 S.Y.
INSTALL 1-1/2" GAS SERVICE	40 L.F.	3x6" CONCRETE CHANNEL	3 S.F.
4" PVC STORM DRAIN	3 L.F.	RIPRAP (850-18")	80 S.F.
DRIVEWAY (OPTION "C")	1250 S.F.	ENTRANCE GATE CARD READER	1 S.

TATE SNYDER ARCHITECTS



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Consultant

GENERAL NOTES & INDEX

CITY OF LAS VEGAS WEST VEHICLE SERVICE CENTER

Revisions

Date: 02.05.96

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