

ABBREVIATIONS

3. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF 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. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
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 CITY ENGINEER.
3. CHISEL "S" OR "O" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS. INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
5. ALL MANHOLES IN PAVED STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
6. TIE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" 'S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
7. A SEWER MAIN CROSSING OVER A WATER MAIN OR LESS THAN EIGHTEEN INCHES (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 CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
9. 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 AT ANY LOCATION. 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 OF LAS VEGAS.
10. INSTALLATION OF CURVED SEWER REQUIRES SPECIAL CONSTRUCTION PROCEDURES AND INSPECTIONS. CONTACT CITY OF LAS VEGAS CONSTRUCTION SERVICES 24 HOURS PRIOR TO INSTALLATION.

FIRE FLOW REQUIREMENT IS:
gallons per minute at 20 psi residual pressure.

Based on:

SQUARE FOOTAGE:	square
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:	square
BUILDING HEIGHT:	feet
NUMBER OF STORIES:	floors
TYPE OF CONSTRUCTION:	
OCCUPANCY:	
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	

1. NON-STANDARD KNUCKLES.
2. CENTERLINE RADIUS OF CURVATURE LESS THAN 300'
3. NON-STANDARD CUL-DE-SACS.
4. STREET GRADES EXCEED 3.0% AT INTERSECTIONS.

FUTURE IMPROVEMENTS	-----
EX. IMPROVEMENTS	-----
BLOCK RETAINING WALL	
BLOCK WALL	
INDEX CONTOUR	
INTERMEDIATE CONTOUR	
SCARP (3:1 MAX)	
A.C. SWALE	
SETBACK LINE	-----
UNIT LINE	
PAD GRADE	
MATCH MASKING	

DESCRIPTION	PROPOSED	EXISTING
EXISTING STREET LIGHT OFFSITE	N/A	
EXISTING STREET LIGHT OFFSITE	N/A	
NEW STREET LIGHT		
PHOTO EYE		
ELECTRICAL PEDISTAL		
PULL BOX AS SHOWN		
GATE VALVE		
EXISTING FIRE HYDRANT OFFSITE	N/A	
NEW FIRE HYDRANT (UNLESS NOTED AS EXISTING)		
BACKWATER VALVE		N/A
SEWER MANHOLE		
STORM DRAIN MANHOLE		
SEWER AND WATER SERVICE		
STREET NAME SIGN		
STREET SIGN (SPEED LIMIT 25)		
STOP SIGN		
FUTURE IMPROVEMENTS	----	N/A
EX. IMPROVEMENTS	----	N/A
UNIT LINE	=====	N/A
SEWER	----	----
WATER	----	----
1 1/4" STREET LIGHT CONDUIT	----	----
OM-3 MARKER		

8" SEWER	1600 LF	UVC	UNSYMMETRICAL	VERTICAL CURVE
48" MANHOLE	7 EA	VAR	VARIABLE	
4" LATERAL (PRIVATE)	900 LF	VB	VALVE BOX	
BACK WATER VALVE (PRIVATE)	11 EA	VC	VERTICAL CURVE	
		VCP	VITRIFIED CLAY PIPE	
		VG	VALLEY GUTTER	
		W	WATER	
		WM	WATER METER	
		WS	WATER SERVICE	
		(XX.XX)	EXISTING ELEVATION	
		XX.XX	FINISHED PAVEMENT GRADE	
		e	EXTERNAL ORDINATE	
		Δ	DELTA	
		Ø	DIAMETER	
		D/W	DRIVEWAY	
		F/C	FACE OF CURB	
		M/L	MONUMENT LINE	
		R/W	RIGHT OF WAY	
		S/W	SIDEWALK	
		T/L	TRACT LINE	

100 W H.P.S.	12 EA
150 W H.P.S.	-
#3-1/2 PULLBOX	2 EA
1-1/4" CONDUIT	1650 LF
DOUBLE METER PADMOUNT & PHOTO EYE	-

6" PVC STORM DRAIN	117 LF
16" x 24" D.I. (JENSEN PRECAST)	1 EA

2.5" AC PAVEMENT	62,101 SF
VALLEY GUTTER	1236 SF
30" ROLL CURB AND GUTTER	3352 LF
24" "L" TYPE CURB AND GUTTER	124 LF
"A" TYPE CURB	-
4' SIDE WALK (EXCLUDING MINI PARK)	7668 SF
TYPE II BASE	879 CY

AB	AGGREGATE BASE
AC	ASPHALTIC CONCRETE
ADJ	ASBESTOS CEMENT PIPE
ADP	ADJUST
AGG	AGGREGATE
AVE	AVENUE
BC	BACK OF CURB
BCR	BEGIN CURB RETURN
BM	BENCH MARK
BEG	BEGINNING VERTICAL CURVE
BW	BOTTOM WALL (FG)
CC	CLARK COUNTY
C/L	CENTERLINE
C	CUBIC FEET
CI	CURB INLET
CI/M	CAST IRON PIPE
CMU	CONCRETE MASONARY UNIT
CO	CLEAN OUT
CONC	CONCRETE
CONST	CONSTRUCT
CONT	CONTINUOUS
CSP	CORRUGATED STEEL PIPE
C	CENTERLINE
CULV	CULVERT
CY	CUBIC YARD
DET	DETAIL
DI	DROP INLET
DIA	DIAMETER
E	EAST
EGL	ENERGY GRADE LINE
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EASEMT	EASEMENT
EOP	EDGE OF PAVEMENT
EVC	END OF VERTICAL CURVE
EX	EXISTING
FF	FLOOR FINISH
FG	FINISH GRADE
FH	FIRE HYDRANT
FT	FEET OR FOOT
FL	FLOW LINE
G	GAS
G	GAUGE
GALV	GALVANIZED
GB	GRADE BREAK
HGL	HYDRAULIC GRADE LINE
HIGH	HIGH POINT
I	INVERT ELEVATION
IINT	INTERSECTION
INV	INVERT
ISL	ISLAND
J	JUNCTION BOX
LF	LINEAR FEET
LT	LEFT
LAT	LATERAL
LAVWD	LAPLACE VALLEY WATER DISTRICT
MAX	MAXIMUM
MXH	MANHOLE
MIN	MINIMUM
N	NORTH
NTS	NOT TO SCALE
OC	ON CENTER
OOG	ORIGINAL GROUND
P	POWER
PB	PULL BOX
PL	PROPERTY LINE
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION
PP	POWER POLE
PRC	POINT OF REVERSE CURVE
PRV	PRESSURE REDUCTION VALVE
PRVC	POINT OF REVERSE VERTICAL CURVE
PT	POINT OF TANGENCY
PVI	POINT OF VERTICAL INTERSECTION
R	RATE
RP	RADIUS POINT
RRR	RAILROAD
RT	RIGHT
S	SLOPE
SD	STORM DRAIN
SF	SQUARE FEET
SHT	SHEET
SL	SEWER LINE
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
SWI	STORM WATER INLET
SWK	SIDEWALK
T	TELEPHONE
TC	TOP OF CURB
TG	TOP OF GRADE
TMH	TOP OF MANHOLE
TS	TRAFFIC SIGNAL
TOW	TOP OF WALL
TYTP	TYPICAL
UVV	UNSYMETRICAL VERTICAL CURVE
VAR	VARIABLE
V	VALVE BOX
V	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VG	VALLEY GUTTER
W	WATER
WM	WATER METER
WS	WATER SERVICE
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S/W	SIDEWALK
T/L	TRACT LINE

NOTICE!

EXISTING UTILITIES ARE SHOWN ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR SHOWN INCORRECTLY.

AVOID CUTTING UNDERGROUND UTILITIES. IT'S COSTLY.

Call
BEFORE YOU
Dig

**ENGINEERING
COMPANY**
50 So. Jones #202, Las Vegas, NV. 89107
Telephone: (702) 877-1300

ALPHA $\propto$

C.L.V. NOTES QUANTITIES AND MISC.

TITLE
VINEYARDS UNIT 2
THE ARBORS @ SUMMERLIN

CHRISTOPHER HOMES

9500 HILLWOOD DRIVE
LAS VEGAS, NEVADA 89134

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2 OF 14 SHEETS

DRAWING NO.
107Y-4546-2

