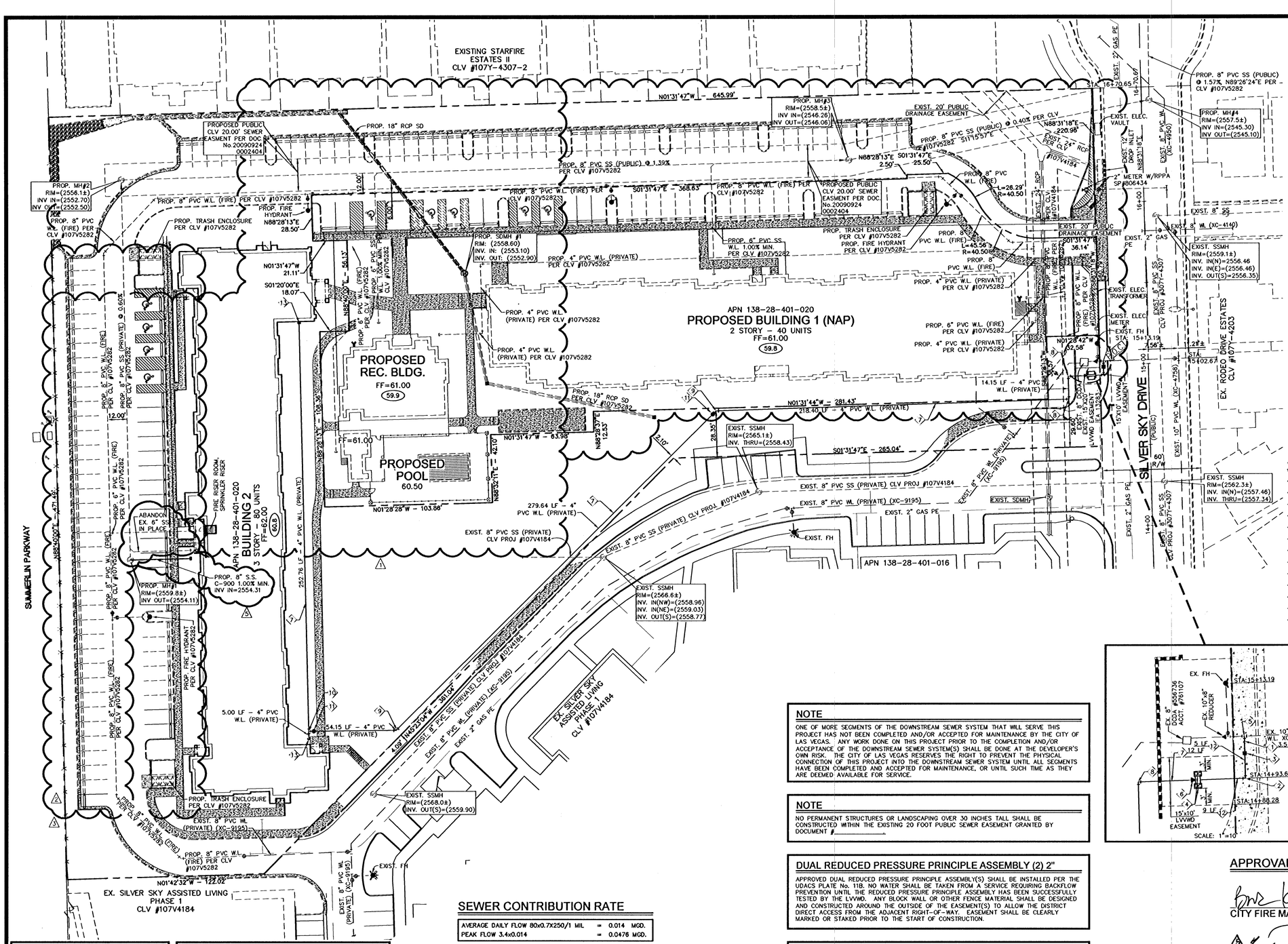
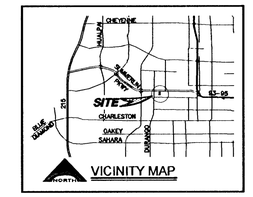




GRAPHIC SCALE

30 0 15 30

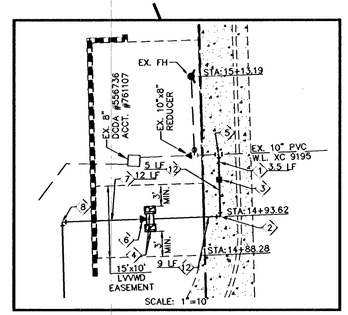
(IN FEET)
1 inch = 30 ft.

LEGEND & ABBREVIATIONS

INV	INVERT OF PIPE
EXIST	EXISTING
DW	DOMESTIC WATER
SS	SANITARY SEWER
TCO	TOP CLEAN OUT
PVC	POLYVINYL CHLORIDE
PROP	PROPOSED
RIM	TOP OF MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING GATE VALVE
	PROPOSED FIRE HYDRANT
	PROPOSED GATE VALVE
	EXISTING WATER LINE
	PROPOSED WATER LINE
	PROPOSED SANITARY SEWER MANHOLE
	EXISTING SEWER LINE
	PROPOSED SEWER LINE
	PROPERTY LINE/RIGHT OF WAY
	STREET CENTERLINE
	EXISTING STREETLIGHT

WATER CONSTRUCTION NOTES & QUANTITIES

1	INSTALL 2" TYPE "K" COPPER	3 LF
2	INSTALL 2" 90° BEND (BRASS)	0 EA
3	INSTALL 2" SERVICE AND 2" METER PER UDACS PLATE No. 4	1 EA
4	INSTALL DUAL 2" RPPA PER UDACS PLATE No. 8	2 EA
5	INSTALL 2" SERVICE SADDLE PER UDACS PLATE NO. 4	1 EA
6	INSTALL 4"x2" REDUCER	1 EA
7	INSTALL 4" PVC-DOMESTIC WATERLINE (PRIVATE)	840.72 LF
8	INSTALL 4" 90° BEND	2 EA
9	INSTALL 4" 45° BEND	2 EA
10	INSTALL 4" TEE	1 EA
11	INSTALL 4" GATE VALVE	2 EA
12	INSTALL 2" BRASS PIPE BETWEEN METER AND RPPA	18 LF
13	INSTALL CAP	2 EA



OWNER

SILVER SKY TWO LP
33 UNION STREET
BOSTON, MA 02108-2414

BENCHMARK

FOUND RIVET AND PLATE IN THE TOP OF CURB AT THE NW CORNER OF WESTCLIFF AND CIMARRON

#909 OLVOOO 2854
777.8633(m) 2552.04(ft)

BASIS OF BEARING

NORTH 88°31'18" EAST, BEING THE SOUTH LINE OF THE CENTERLINE OF SILVER SKY DRIVE AS SHOWN ON A MAP ON FILE IN THE CLARK COUNTY NEVADA RECORDER'S OFFICE AS FILE 109, PAGE 2 OF PARCEL MAPS.

FIRE FLOW CALCULATIONS
(BUILDING - 2)

FIRE FLOW REQUIREMENT IS: AT 20 PSI RESIDUAL PRESSURE.	2,125	GALLONS PER MINUTE
BASED ON: SQUARE FOOTAGE	SF.	57,851
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:	S.F.	N/A
BUILDING HEIGHT:	FEET:	37
NUMBER OF STORIES:		3 FLOORS
TYPE OF CONSTRUCTION:		VA
OCCUPANCY:		R/S, B, MIXED USE
FULL AUTOMATIC SPRINKLERS SYSTEM:		YES

SEWER CONTRIBUTION RATE

AVERAGE DAILY FLOW 80x0.7X250/1 MIL	=	0.014 MGD.
PEAK FLOW 3.4x0.014	=	0.0476 MGD.

SEWER MANHOLE TABLE

SSMH	RIM ELEV	NORTHING & EASTING	INVERT IN	INVERT OUT	SIZE	REF. STD
EXIST. #1	(2559.8±)	N 10612.62 – E 10379.78	TERMINAL SSMH	(2554.11)	48" TYPE I	SD-1
EXIST. #2	(2556.1±)	N 10618.09 – E 10614.72	(2552.70)	(2552.50)	48" TYPE I	SD-1
EXIST. #3	(2558.5±)	N 10168.05 – E 10626.74	(2546.26)	(2546.06)	48" TYPE I	SD-1
EXIST. #4	(2557.5±)	N 9982.29 – E 10663.74	(2545.30)	(2545.10)	48" TYPE I	SD-1

NOTE

ONE OF MORE SEGMENTS OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

NOTE

NO PERMANENT STRUCTURES OR LANDSCAPING OVER 30 INCHES TALL SHALL BE CONSTRUCTED WITHIN THE EXISTING 20 FOOT PUBLIC SEWER EASEMENT GRANTED BY DOCUMENT #_____.

DUAL REDUCED PRESSURE PRINCIPLE ASSEMBLY (2) 2"

APPROVED DUAL REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE No. 118. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENT SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.19 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

NOTE:

ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.12.040

ENGINEER DISCLAIMER NOTE:

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

APPROVAL

CITY FIRE MARSHAL — DATE 5-19-14

1st APP'D 1-31-14

LAS VEGAS WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE 5/21/14 PROJECT No. 116234 .

DISCLAIMER NOTE

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811 OR 1-800-227-2600 AND CLARK COUNTY TRAFFIC OPERATIONS 1-702-455-7544

Avoid overhead power line contact
Call before you OVERHEAD
1-702-227-2929
NEVADA POWER COMPANY D.B.A. NV ENERGY ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUITS IT'S COSTLY
CALL BEFORE YOU DO UNDERGROUND — Call before you Underground
1-702-455-7511
CLARK COUNTY TRAFFIC OPERATIONS
AND
1-702-432-5300
LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM

REV No.	REVISION DESCRIPTION	APP'D	BY	DATE
1	REVISED LAYOUT/PROPERTY LINE			
2	REVISED PARKING LAYOUT, ADD DRAINAGE SWALES			
3	UNDERDRAINS AND HANDRAILS			
4	REVISED PARKING LAYOUT			
5	L.V.V.W.D. REVISIONS AND SIGNATURE			
6	REVISED SS LATERAL (6") CONNECTION TO SSMH#1			

NEVADA H.A.N.D.
2655 WEST HORIZON RIDGE PKWY, SUITE 101
LAS VEGAS, NEVADA 89128-4212
TEL: (702) 739-3345 CONTACT: ROBERT FEIBLEMAN

L.R. NELSON CONSULTING ENGINEERS, INC.
6765 West Russell Road Suite 200
Las Vegas, Nevada 89118
(702) 739-7272
(702) 451-2296 FAX
• STRUCTURAL
• CIVIL
• PLANNING
• SURVEY

SHEET: UTILITY PLAN

TITLE: WESTCLIFF HEIGHTS
SILVER SKY DR AND ROLAND WILEY RD
CITY OF LAS VEGAS NEVADA

DRAWN BY: JP Feb. '10
DESIGNED BY: JP Feb. '10
CHECKED BY: JAY/RT Feb. '10
PROJECT NO: 603-004-092
SCALE: 1"= 30' N/A

SEAL: PROFESSIONAL ENGINEER — STATE OF NEVADA — VERNON R. HARKINS EXP 6/30/15 CIVIL No. 009698 — 5/19/14

SHEET UT1
4 of 9 — 6 OF 109 SHEETS

CLV DRAWING NO. 107Y3285-1