

**SANITARY SEWER FINAL LOCATION MAP FOR
IMPROVEMENT PLANS FOR
SAVONA @ SUMMERLIN - PHASE 1**

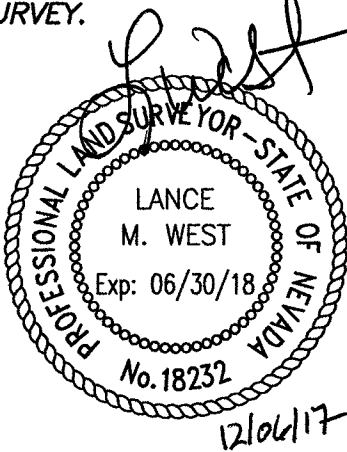
A COMMON INTEREST COMMUNITY

BEING A SUBDIVISION OF CC OF SUMMERLIN VILLAGE 23B UNIT NO. 2 ON FILE IN BOOK 145, PAGE 83 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA, LYING WITHIN THE
SOUTHEAST QUARTER (SE 1/4) OF SECTION 27, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA

SURVEYOR'S STATEMENT

SURVEY WAS COMPLETED ON AUGUST 11, 2016
1) THE POSITIONAL CERTAINTY FOR THIS SURVEY IS 0.3' HORIZONTAL AND 0.3' VERTICAL BASED ON NAD83(2011), EPOCH 2010.00
2) THE POSITIONAL CERTAINTY STATED DOES NOT TAKE INTO ACCOUNT ANY MODIFICATIONS TO THE PIPE, MANHOLES OR LATERALS COMPLETED AFTER THE DATE OF SURVEY.

LANCE M. WEST
PROFESSIONAL LAND SURVEYOR
NEVADA LICENSE NO. 18232



BASIS OF BEARINGS

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE SYSTEM.
ZONE: NEVADA EAST ZONE (2701)
DATUM (REFERENCE FRAME): NAD 1983(2011), EPOCH 2010.00
SYSTEM: NEVADA COORDINATE SYSTEM
PROJECTION: TRANSVERSE MERCATOR
ORIGIN LATITUDE: N34°45'00.00000"
ORIGIN LONGITUDE: W115°35'00.00000"
FALSE NORTHING: 26,246,666.667 FEET
FALSE EASTING: 656,166.667 FEET

NOTES:
1. ALL DISTANCES AND BEARINGS SHOWN HEREON ARE PROJECTED (GRID) VALUES BASED ON THE PRECEDING PROJECTION DEFINITION.
2. GRID BEARING SHOWN HEREON (OR IMPLIED BY GRID COORDINATES) DO NOT EQUAL GEODETIC BEARING DUE TO MERIDIAN CONVERGENCE.

BENCHMARK

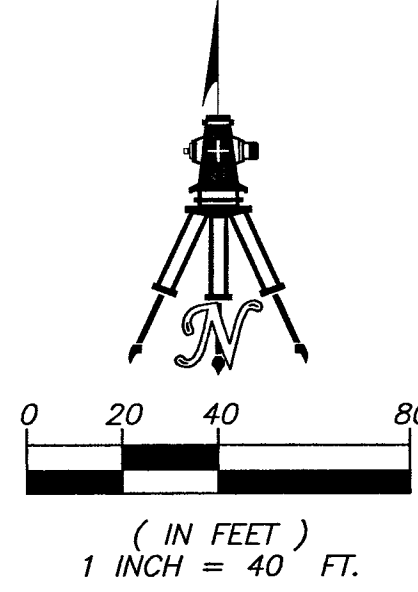
7LV0934SW6A - BEING A RIVET AND PLATE IN THE TOP OF CURB SE CORNER OF DESERT MOON ROAD & DESERT SUNRISE ROAD
3301.47 US SURVEY FEET
1006.289 METERS
N.A.V.D. 88 DATUM

NOTES

1) SEE ELECTRONIC TEXT FILE "SAVONA-PHASE1-PNTS-SS-SP.TXT" FOR COORDINATES.

LEGEND

---	RIGHT-OF-WAY LINE	CL BARREL	CENTER OF 48" MANHOLE BARREL
---	STREET CENTERLINE	SWR-MH	SHOT TAKEN AT CENTER OF 38" COLLAR
---	SEWER LINE	SWR-Y	SHOT TAKEN ON TOP OF PIPE AT SEWER Y
x	POINT LOCATION	SWR-LATERAL	SHOT TAKEN ON TOP OF PIPE AT SEWER LATERAL
23118	POINT NUMBER	PIPE-TOP	SHOT TAKEN ON TOP OF PIPE
21	LOT NUMBER		

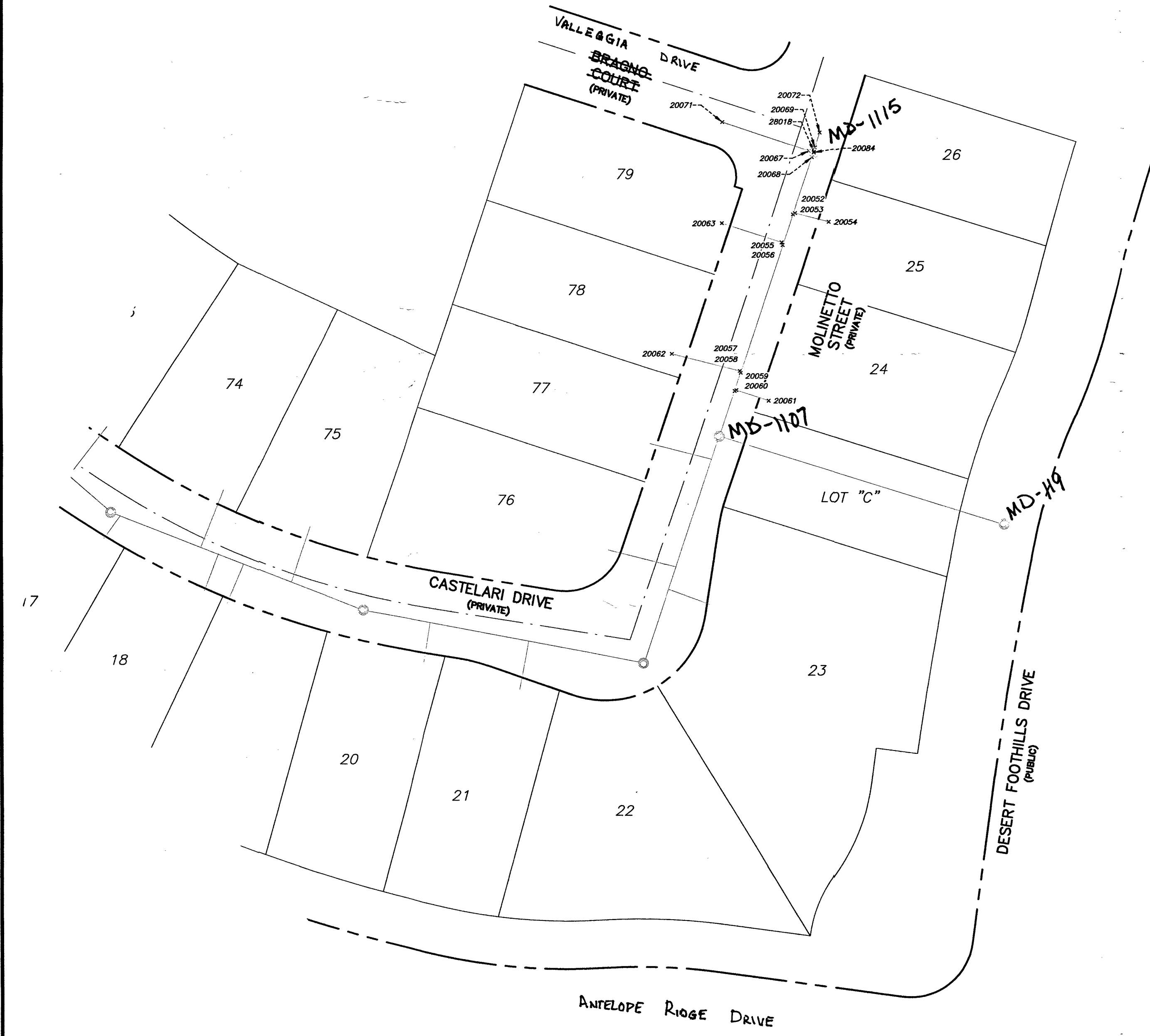


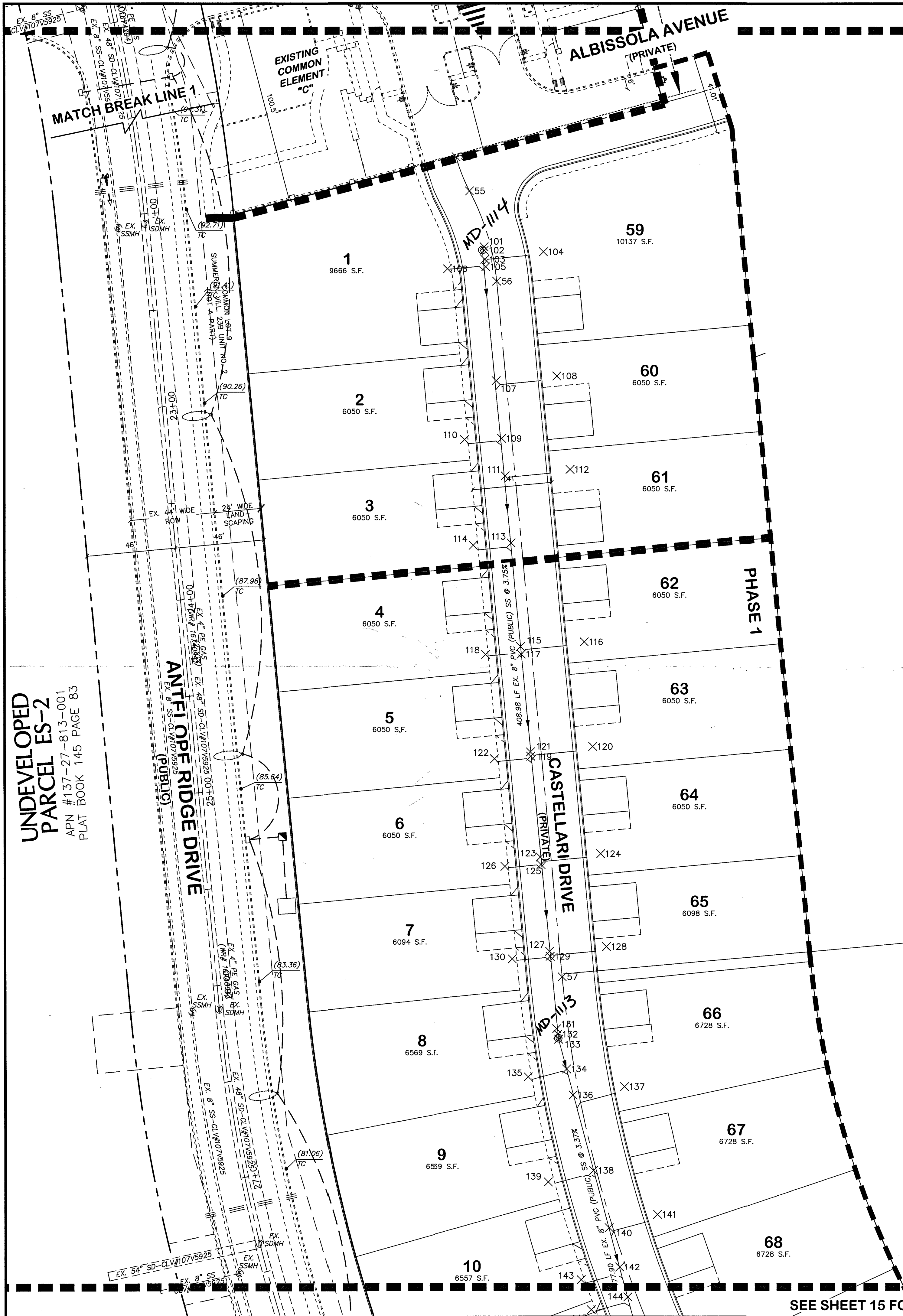
SHEET 1 OF 1

H# 56545
DWG# 107Y5023-1

SANITARY SEWER FINAL LOCATION MAP
SAVONA @ SUMMERLIN - PHASE 1
A COMMON INTEREST COMMUNITY
BEING A SUBDIVISION OF PARCEL CC OF SUMMERLIN VILLAGE 23B UNIT NO. 2 ON FILE IN BOOK 145, PAGE 83 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA, LYING WITHIN THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 27, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA

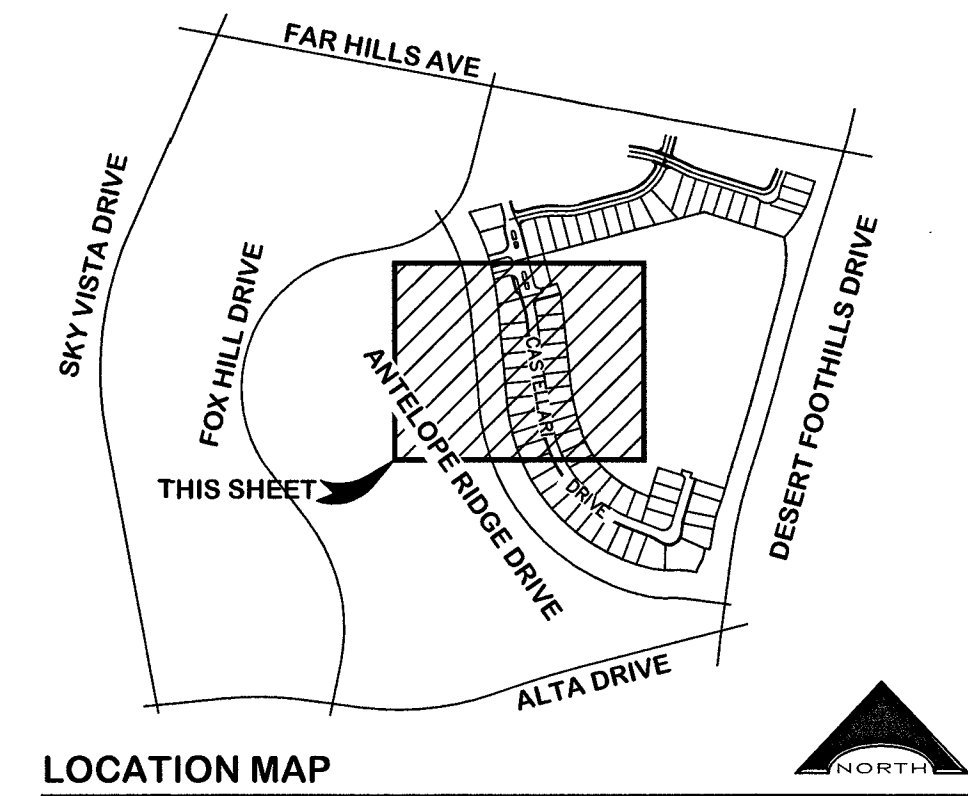
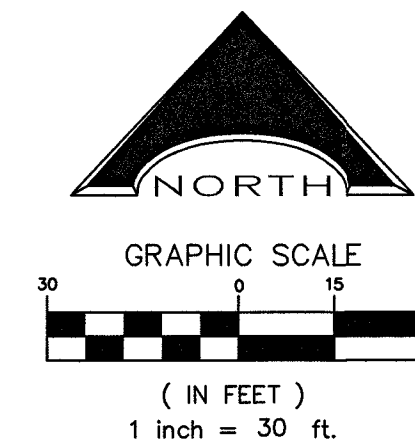
WALLACE · MORRIS · KLINE
SURVEYING, INC.
LAND SURVEY CONSULTING
5740 SOUTH ARVILLE STREET, #206
LAS VEGAS, NEVADA 89118
PH: 702.212.3967 FX: 702.212.3963





SEE SHEET 15 FOR CONTINUATION

PROJECT COORDINATES				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
50	519878.88	566843.92		CL MONUMENT
55	519861.29	566850.87		CL MONUMENT
56	519814.77	566864.89		CL MONUMENT
57	519455.50	566898.46		CL MONUMENT
101	519832.56	566858.44	3391.65	TOP SSMH @ CENTER BARREL
102	519830.78	566858.47	3384.19	TOP 8" PVC OUT
103	519826.07	566858.83	3383.88	TOP 8" PVC SEWER MAIN
104	519829.97	566889.07	3384.01	TOP 4" PVC LATERAL
105	519822.25	566859.24	3383.75	TOP 8" PVC SEWER MAIN
106	519821.17	566839.51	3384.46	TOP 4" PVC LATERAL
107	519763.51	566864.59	3381.68	TOP 8" PVC SEWER MAIN
108	519765.90	566895.99	3382.06	TOP 4" PVC LATERAL
109	519733.67	566867.40	3380.50	TOP 8" PVC SEWER MAIN
110	519733.13	566848.20	3380.90	TOP 4" PVC LATERAL
111	519714.34	566869.12	3379.69	TOP 8" PVC SEWER MAIN
112	519717.66	566902.66	3380.25	TOP 4" PVC LATERAL
113	519679.76	566872.22	3378.36	TOP 8" PVC SEWER MAIN
114	519678.57	566852.64	3379.25	TOP 4" PVC LATERAL
115	519626.28	566877.09	3376.46	TOP 8" PVC SEWER MAIN
116	519628.73	566910.04	3377.09	TOP 4" PVC LATERAL
117	519622.34	566877.45	3376.44	TOP 8" PVC SEWER MAIN
118	519622.17	566859.03	3376.76	TOP 4" PVC LATERAL
119	519571.59	566882.13	3374.53	TOP 8" PVC SEWER MAIN
120	519574.42	566914.37	3374.73	TOP 4" PVC LATERAL
121	519569.40	566882.30	3374.34	TOP 8" PVC SEWER MAIN
122	519568.02	566863.55	3374.92	TOP 4" PVC LATERAL
123	519517.40	566887.17	3372.47	TOP 8" PVC SEWER MAIN
124	519519.18	566918.42	3372.65	TOP 4" PVC LATERAL
125	519513.58	566887.58	3372.31	TOP 8" PVC SEWER MAIN
126	519512.60	566868.94	3373.35	TOP 4" PVC LATERAL
127	519468.85	566891.96	3370.55	TOP 8" PVC SEWER MAIN
128	519471.25	566921.45	3370.97	TOP 4" PVC LATERAL
129	519466.16	566892.27	3370.54	TOP 8" PVC SEWER MAIN
130	519464.88	566872.69	3371.21	TOP 4" PVC LATERAL
131	519428.70	566895.56	3368.95	TOP 8" PVC IN
132	519425.88	566896.21	3376.34	TOP SSMH @ CENTER BARREL
133	519423.32	566896.62	3368.76	TOP 8" PVC OUT
134	519407.99	566900.76	3368.14	TOP 8" PVC SEWER MAIN
135	519403.92	566880.92	3368.81	TOP 4" PVC LATERAL
136	519394.56	566904.15	3367.70	TOP 8" PVC SEWER MAIN
137	519398.90	566930.75	3367.81	TOP 4" PVC LATERAL
138	519355.55	566914.73	3366.27	TOP 8" PVC SEWER MAIN
139	519349.57	566891.30	3366.50	TOP 4" PVC LATERAL
140	519326.02	566922.80	3365.23	TOP 8" PVC SEWER MAIN
141	519332.88	566947.83	3365.44	TOP 4" PVC LATERAL
142	519305.72	566928.21	3364.54	TOP 8" PVC SEWER MAIN
143	519299.17	566908.29	3364.68	TOP 4" PVC LATERAL
144	519290.28	566932.36	3363.99	TOP 8" PVC SEWER MAIN
145	519283.71	566913.42	3364.43	TOP 4" PVC LATERAL



BENCHMARK

CITY OF LAS VEGAS BENCHMARK 7LV09 27SE6

A RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHEAST CORNER OF MOUNTAIN SHADOW ROAD AND DESERT FOOTHILLS.

ELEVATION = 1013.556 METERS (3325.31 FEET) NAVD 1988.

HORIZONTAL DATUM

NORTH 15°02'07" EAST, BEING THE BEARING OF THE CENTERLINE OF DESERT FOOTHILLS DRIVE AS SHOWN ON THE PLAT OF SUMMERLIN VILLAGE 23B UNIT NO. 2, ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE AS BOOK 145, PAGE 83 OF PLATS.

NOTES

THE PURPOSE OF THIS SURVEY IS TO PROVIDE AS-BUILT INFORMATION FOR THE SANITARY SEWER FACILITIES IN A PORTION OF THE "SAVONA @ SUMMERLIN - PHASE 1"

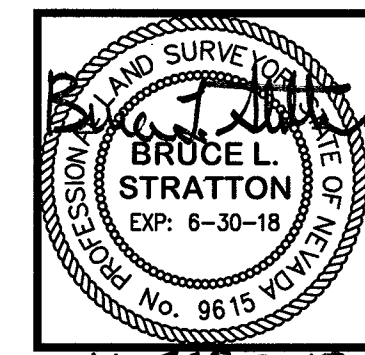
THE SEWER FACILITIES NORTH OF THE MANHOLE LOCATED AT THE NORTHWEST CORNER OF LOT 23, AND SERVICING LOTS 24, 25, 78 & 79 ARE THE RESPONSIBILITY OF OTHERS.

THE SURVEY WAS COMPLETED ON 10/17/2016.

THE POSITIONAL ACCURACY OF THE COORDINATES SHOWN HEREON IS WITHIN 0.3', HORIZONTALLY AND VERTICALLY.

LEGEND

- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- EXISTING DROP INLET
- PROPOSED DROP INLET
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING GATE VALVE
- PROPOSED GATE VALVE
- PROPOSED SEWER LATERAL
- PROPOSED WATER LATERAL AND METER
- BACK WATER VALVE



DESIGNED BY:	RPE	DRAWN BY:	RPE	CHECKED BY:	BLS
DATE:	February 2018	DATE:	February 2018	DATE:	February 2018
REVISION		REVISION		REVISION	
NO.		NO.		NO.	

L. R. NELSON CONSULTING ENGINEERS, INC.
6765 West Russell Road, Suite 200
Las Vegas, Nevada 89118
(702) 798-7978
(702) 451-2296 FAX

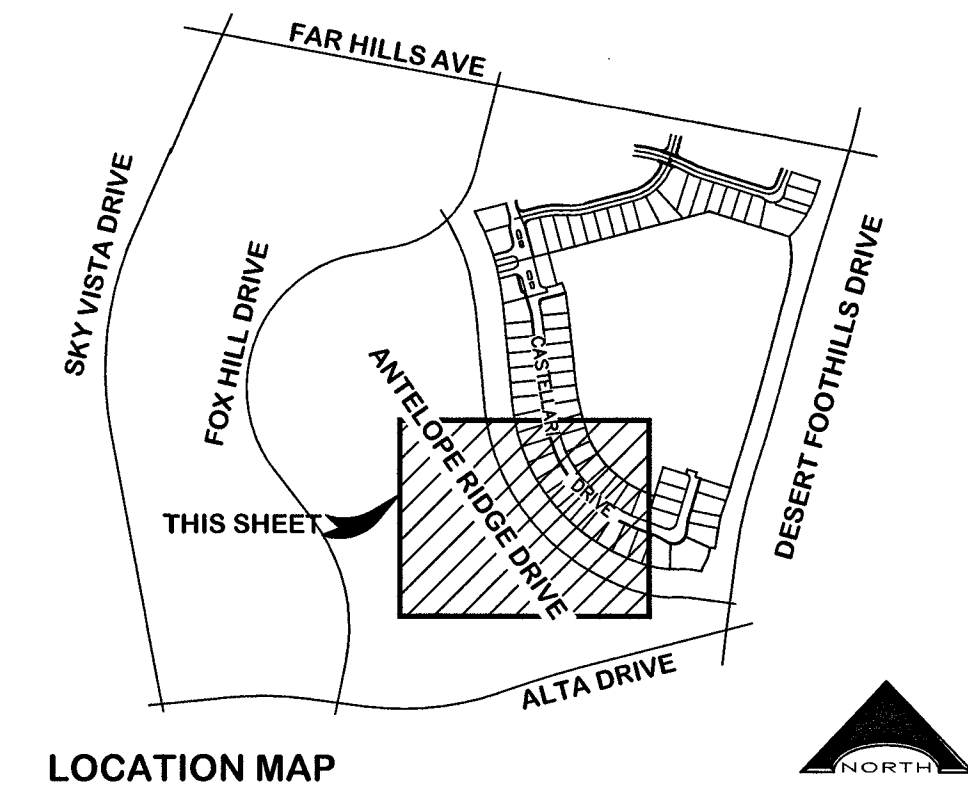
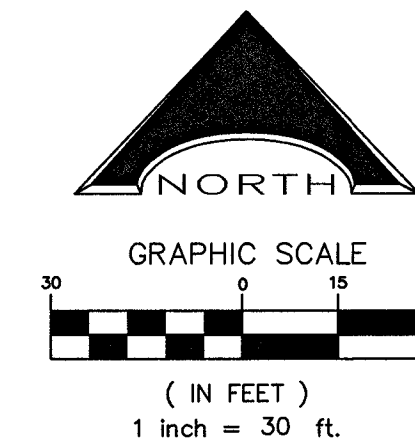
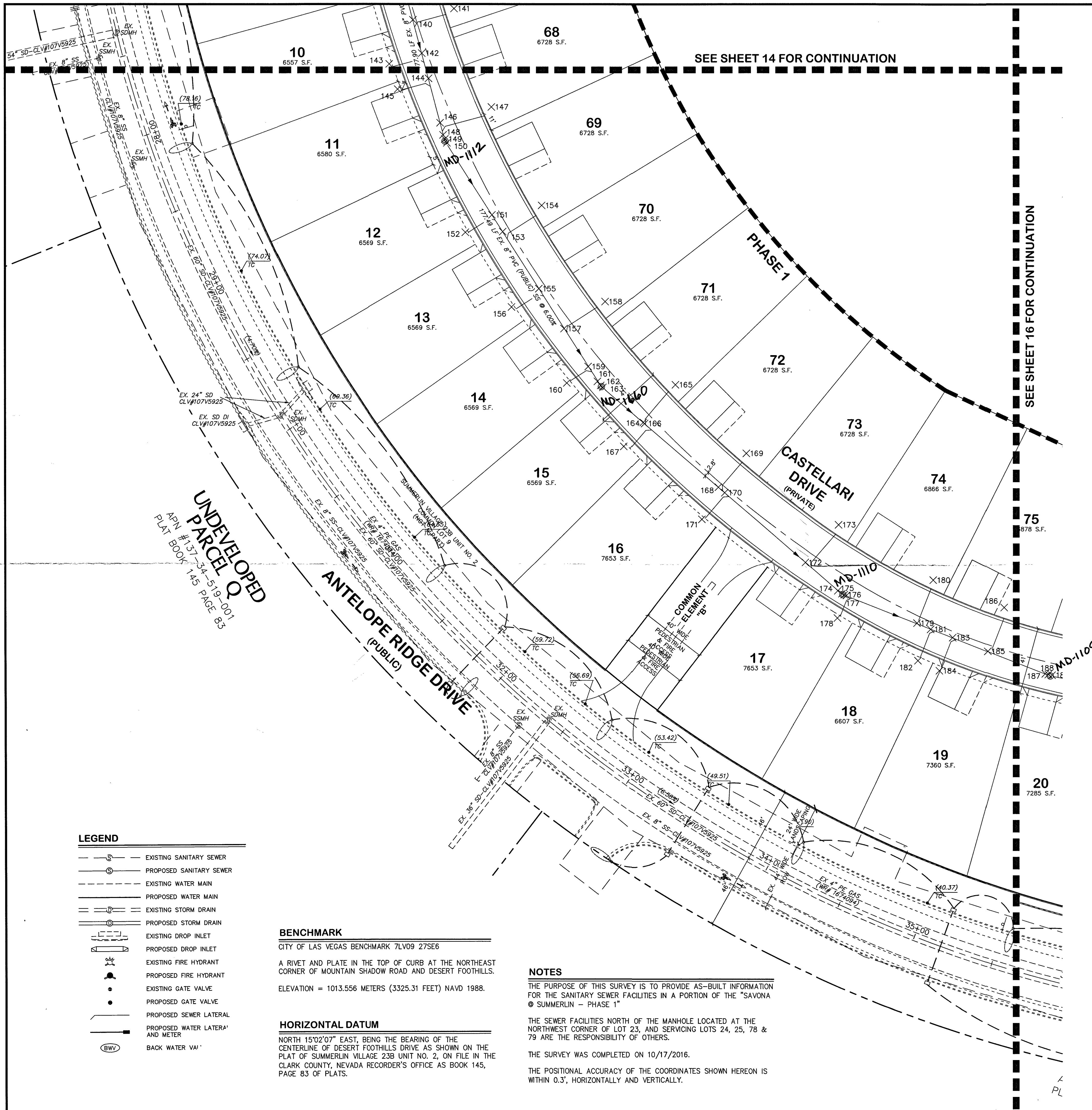
STRUCTURAL
CIVIL
PLANNING
SURVEY

Woodside Homes
BETTER BY DESIGN

SANITARY SEWER FINAL LOCATION MAP
A PORTION OF PHASE 1
SAVONA AT SUMMERLIN
CITY OF LAS VEGAS, NEVADA

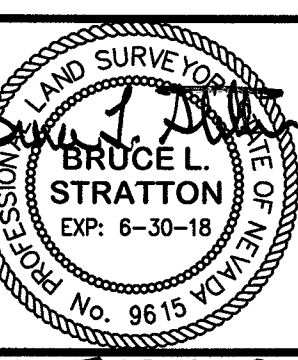
SHEET NUMBER
1
OF 3 SHEETS
CLV# 107Y5023-1

H 56545



PROJECT COORDINATES				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
140	519326.02	566922.80	3365.23	TOP 8" PVC SEWER MAIN
141	519332.88	566947.83	3365.44	TOP 4" PVC LATERAL
142	519305.72	566928.21	3364.54	TOP 8" PVC SEWER MAIN
143	519299.17	566908.29	3364.68	TOP 4" PVC LATERAL
144	519290.28	566932.36	3363.99	TOP 8" PVC SEWER MAIN
145	519283.71	566913.42	3364.43	TOP 4" PVC LATERAL
146	519263.17	566939.45	3363.18	TOP 8" PVC SEWER MAIN
147	519272.81	566970.74	3363.24	TOP 4" PVC LATERAL
148	519255.76	566941.25	3362.86	TOP 8" PVC IN
149	519253.25	566942.29	3369.72	TOP SSMH @ CENTER BARREL
150	519250.93	566943.55	3362.49	TOP 8" PVC OUT
151	519207.08	566971.10	3359.36	TOP 8" PVC SEWER MAIN
152	519196.46	566954.78	3359.50	TOP 8" PVC SEWER MAIN
153	519196.83	566977.61	3358.62	TOP 8" PVC SEWER MAIN
154	519212.88	567001.39	3358.78	TOP 8" PVC SEWER MAIN
155	519162.05	566999.68	3356.09	TOP 8" PVC SEWER MAIN
156	519150.92	566982.99	3356.23	TOP 8" PVC SEWER MAIN
157	519137.75	567015.10	3354.32	TOP 8" PVC SEWER MAIN
158	519154.19	567040.18	3354.48	TOP 8" PVC SEWER MAIN
159	519114.57	567029.81	3352.64	TOP 8" PVC SEWER MAIN
160	519104.53	567016.69	3352.78	TOP 8" PVC SEWER MAIN
161	519105.50	567035.45	3352.13	TOP 8" PVC IN
162	519103.05	567037.48	3358.68	TOP SSMH @ CENTER BARREL
163	519101.84	567038.78	3351.74	TOP 8" PVC OUT
164	519080.62	567063.27	3349.78	TOP 8" SEWER MAIN
165	519103.46	567083.00	3349.92	TOP 4" SEWER LATERAL
166	519079.92	567064.07	3349.71	TOP 8" SEWER MAIN
167	519065.86	567051.48	3349.70	TOP 4" SEWER LATERAL
168	519041.01	567109.22	3346.10	TOP 8" SEWER MAIN
169	519061.69	567126.33	3346.25	TOP 4" SEWER LATERAL
170	519037.67	567113.08	3345.80	TOP 8" SEWER MAIN
171	519021.40	567099.03	3345.92	TOP 4" SEWER LATERAL
172	518995.03	567162.39	3341.85	TOP 8" SEWER MAIN
173	519018.22	567183.04	3341.99	TOP 4" SEWER LATERAL
174	518977.59	567182.55	3340.23	TOP 8" PVC IN
175	518975.79	567185.06	3348.10	TOP SSMH @ CENTER BARREL
176	518975.16	567186.50	3340.19	TOP 8" PVC OUT
177	518974.70	567187.83	3340.12	TOP 8" SEWER MAIN
178	518960.95	567182.30	3340.25	TOP 4" SEWER LATERAL
179	518957.90	567230.94	3337.64	TOP 8" SEWER MAIN
180	518984.22	567240.89	3337.93	TOP 4" SEWER LATERAL
181	518954.22	567239.30	3337.15	TOP 8" SEWER MAIN
182	518935.05	567231.58	3337.35	TOP 4" SEWER LATERAL
183	518949.15	567252.80	3336.38	TOP 8" SEWER MAIN
184	518928.98	567244.64	3336.60	TOP 4" SEWER LATERAL
185	518940.83	567274.22	3335.15	TOP 8" SEWER MAIN
186	518967.50	567284.20	3335.42	TOP 4" SEWER LATERAL
187	518927.07	567309.34	3333.83	TOP 8" PVC IN
188	518926.59	567311.17	3340.27	TOP SSMH @ CENTER BARREL
189	518926.21	567313.48	3333.51	TOP 8" PVC OUT

H 56545



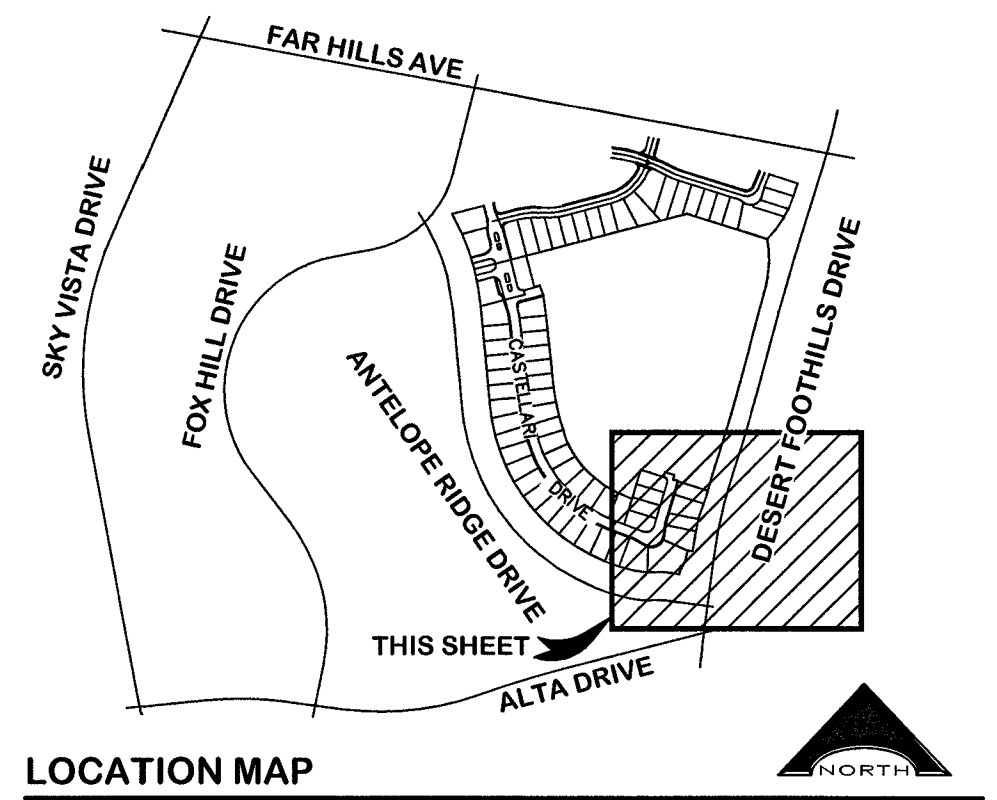
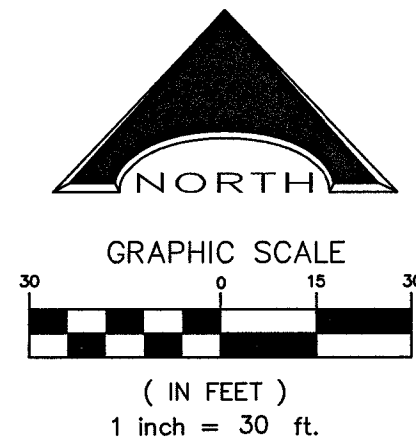
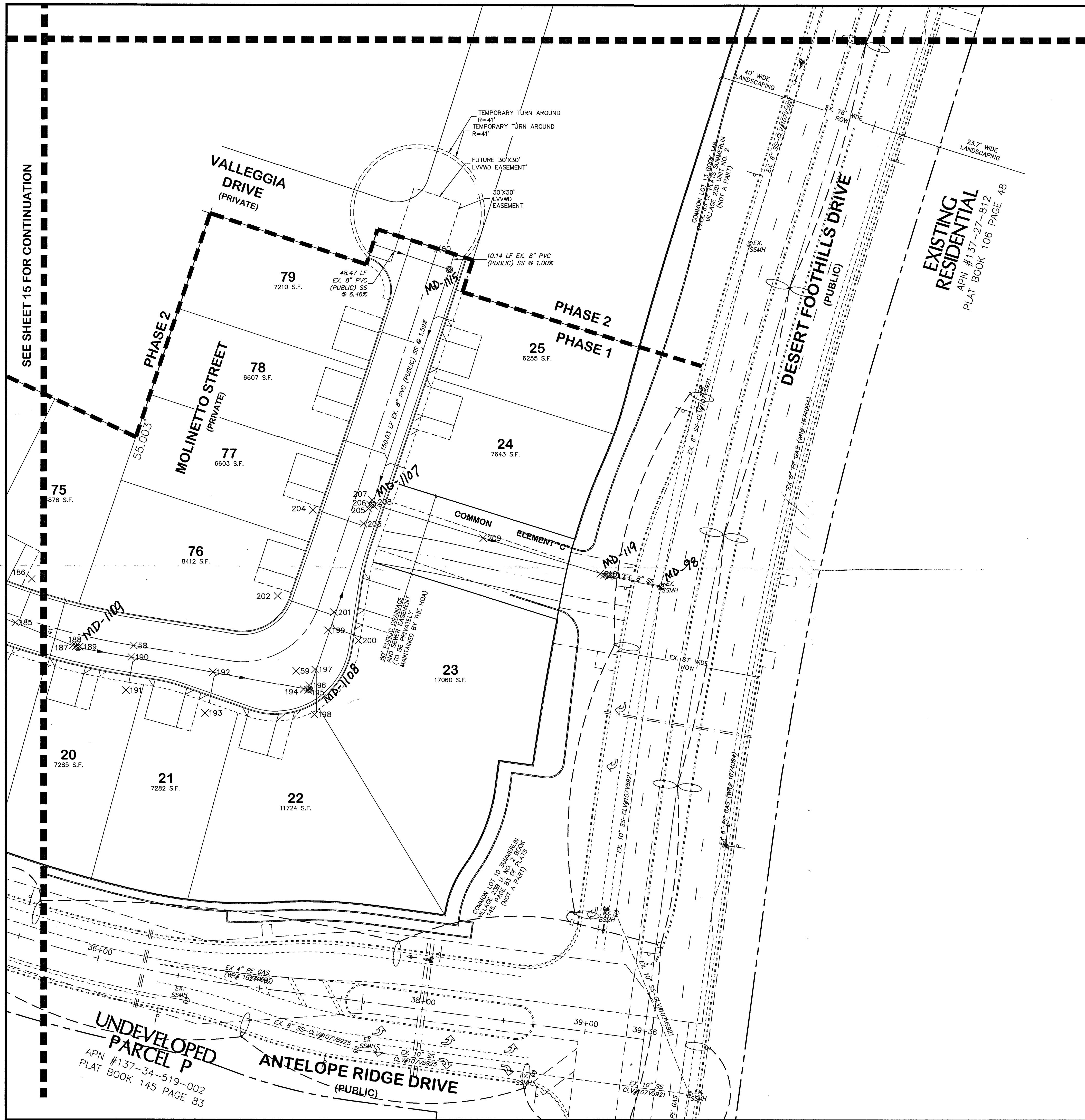
DESIGNED BY:	CHKD BY:	DATE:
RPE	RPE	February 2018
DRAWN BY:	DATE:	REVISION
RPE	February 2018	
NO.	DATE	APPL

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STRUCTURAL
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Woodside Homes
BETTER BY DESIGN

SANITARY SEWER FINAL LOCATION MAP
A PORTION OF PHASE 1
SAVONA AT SUMMERLIN
CITY OF LAS VEGAS, NEVADA



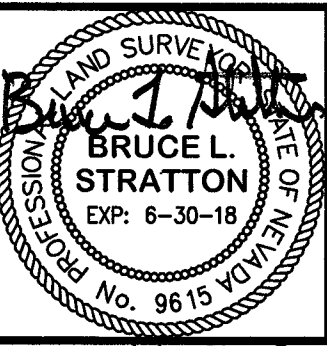
PROJECT COORDINATES				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
58	518926.96	567346.49		CL MONUMENT
59	518911.61	567445.25		CL MONUMENT
60	519168.34	567531.33		CL MONUMENT
185	518940.83	567274.22	3335.15	TOP 8" SEWER MAIN
186	518967.50	567284.20	3335.42	TOP 4" SEWER LATERAL
187	518927.07	567309.34	3333.83	TOP 8" PVC IN
188	518926.59	567311.17	3340.27	TOP SSMH @ CENTER BARREL
189	518926.21	567313.48	3333.51	TOP 8" PVC OUT
190	518920.01	567344.97	3332.00	TOP 8" SEWER MAIN
191	518899.85	567341.69	3332.71	TOP 4" SEWER LATERAL
192	518910.91	567394.62	3329.29	TOP 8" SEWER MAIN
193	518886.14	567389.89	3330.44	TOP 4" SEWER LATERAL
194	518900.54	567449.71	3326.33	TOP 8" PVC IN
195	518900.08	567452.51	3335.91	TOP SSMH @ CENTER BARREL
196	518902.78	567453.13	3326.15	TOP 8" PVC OUT
197	518912.52	567456.73	3325.90	TOP 8" SEWER MAIN
198	518885.21	567456.27	3326.15	TOP 4" SEWER LATERAL
199	518936.35	567464.62	3325.28	TOP 8" SEWER MAIN
200	518930.16	567483.22	3326.99	TOP 4" SEWER LATERAL
201	518947.27	567468.27	3324.96	TOP 8" SEWER MAIN
202	518957.25	567433.97	3325.23	TOP 4" SEWER LATERAL
203	519001.28	567486.29	3323.71	TOP 8" SEWER MAIN
204	519009.71	567455.34	3324.07	TOP 4" SEWER LATERAL
205	519010.54	567489.30	3323.44	TOP 8" PVC IN
206	519013.05	567490.26	3335.70	TOP SSMH @ CENTER BARREL
207	519015.81	567491.38	3323.34	TOP 8" PVC OUT
208	519012.33	567492.72	3323.04	TOP 8" PVC OUT
209	518992.68	567559.29	3321.62	TOP 8" PVC POL
210	518971.14	567630.54	3320.22	TOP 8" PVC IN
211	518970.28	567633.09	3325.00	TOP SSMH @ CENTER BARREL
212	518969.62	567635.78	3320.09	TOP 8" PVC OUT

BENCHMARK
CITY OF LAS VEGAS BENCHMARK 7LV09 27SE6
A RIVET AND PLATE IN THE TOP OF CURB AT THE NORTHEAST CORNER OF MOUNTAIN SHADOW ROAD AND DESERT FOOTHILLS.
ELEVATION = 1013.556 METERS (3325.31 FEET) NAVD 1988.

HORIZONTAL DATUM
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H 56545



DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:
REVISION	DATE	APPROVED	DATE
NO.			

L. R. NELSON CONSULTING ENGINEERS, INC.
6785 West Russell Road, Suite 200
Las Vegas, Nevada 89118
(702) 798-7978
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STRUCTURAL
CIVIL
PLANNING
SURVEY

Woodside Homes
BETTER BY DESIGN

SANITARY SEWER FINAL LOCATION MAP
A PORTION OF PHASE 1
SAVONA AT SUMMERLIN
CITY OF LAS VEGAS, NEVADA

SHEET NUMBER
3
OF 3 SHEETS
CLV# 107Y5023-1

Memorandum

Department of Public Works
City Engineer Division
Survey Section
333 North Rancho Dr., 8th Floor
Las Vegas, Nevada 89106

Phone (702) 229-6217
Fax (702) 804-8582

To: Michael Cunningham, Manager
Building and Safety Department

From: Alan R. Riecki, PLS
City Surveyor

C: Lance M. West, PLS
Wallace Morris Kline Surveying

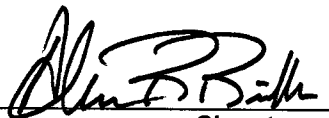
Tim Parks, P.E., Engineering Project Manager
Sanitary Sewers Section, Engineering Planning

Date: January 24, 2018

Re: Sanitary Sewer Final Location Map
SAVONA AT SUMMERLIN PHASE 1
(Drawing No. 107Y5023-1, L-Civil No. 56545-A)

The Survey Section has reviewed the Final Location Map and as far as our jurisdiction of this project is concerned, we find that the map is:

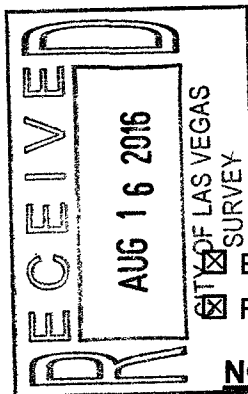
Acceptable: January 24, 2018



Signature

City Surveyor
Title

Public Works/Survey
Department/Division



CITY OF LAS VEGAS
BUILDING AND SAFETY DEPARTMENT

OFFSITE INSPECTION & TESTING
333 NORTH RANCHO DRIVE
LAS VEGAS, NV 89106
PHONE: (702) 229-6337
FAX: (702) 363-1051

DEVELOPER'S SUBMITTAL OF GPS COORDINATES

☒ Sewer

☐ Storm Drain

☒ Electronic Comma Delineated File

☒ Final Location Map (2)

NOTE: THE TOP PART OF THIS FORM MUST BE FILLED OUT IN ITS ENTIRETY

PROJECT NAME: SAVONA @ SUMMERLIN - PHASE 1 UNIT: N/A PHASE: 1

PROJECT LOCATION: DESERT FOOTHILLS DRIVE & ANTELOPE RIDGE DRIVE

CLV PLAN #: 107Y5023-1 CLV PROJECT # 56545 - A SHEET NO. (S): 2

OF MANHOLES 10 PUB. SEWER/STORM DRAIN LIN. FT. 1737 # OF PRIVATE LATERALS 46

DEVELOPER: LENNAR PHONE: 702-821-4850 FAX: _____

SURVEY CO.: WALLACE MORRIS KLINE PHONE: 702-212-3967 FAX: 702-212-3963

CONTRACTOR: WESTERN STATES PHONE: 702-644-1117 FAX: 702-644-1227

CONTRACTOR'S SUPERVISOR NAME: JOHN ALLRED MOBILE: 702-284-9847

DATE OF REQUEST: 7/18/16

THIS SEWER HAS BEEN SURVEYED BY NEVADA LICENSED LAND SURVEYOR:

Company Name WALLACE MORRIS KLINE Surveyor Name LANCE WEST

License # 18232 License exp. Date: 6/30/18

CITY USE ONLY

DATE SR. INSPECTOR RECEIVED: _____ SR. INSPECTOR INITIALS: _____

DATE RECEIVED FROM SR. INSPECTOR AND SENT TO CITY SURVEYOR: _____

ACCEPTABLE BY CITY SURVEYOR DATE: _____ NOT ACCEPTABLE BY CITY SURVEYOR DATE: _____

CLV SURVEYOR'S SIGNATURE: *[Signature]* DATE: 1-24-18

THE CITY OF LAS VEGAS RECOMMENDS THAT ALL DEFICIENCIES NOTED ON THE ATTACHED SURVEY REPORT BE CORRECTED PRIOR TO THE FINAL ACCEPTANCE.

For Sanitary Sewer To Complete and Return to Offsite Inspection & Testing:

RECEIVED BY: *[Signature]*
(PLEASE PRINT)

SIGNATURE: *[Signature]* DATE: 3/26/2018

For Flood Control To Complete and Return to Offsite Inspection & Testing:

RECEIVED BY: _____
(PLEASE PRINT)

SIGNATURE: _____ DATE: _____



City of Las Vegas
Department of Public Works
Survey Section

REVIEW CHECKLIST
SANITARY SEWER
FINAL LOCATION MAP

JOB NUMBER 56545 SS2 - **A**
PROJECT NAME SAVONA AT SUMMERLIN PHASE 1
WORK AUTH. NO. P28000
SUBMITTED BY Wallace Morris Kline(Lance M. West)
PROJECT TYPE CIP ☐ Land Dev ☒ Street Rehab ☐
DATE 4/24/18
REVIEWED BY O. SANTANA

REVIEW DETERMINATION

- ☒ Approved
☐ Not Acceptable

TO BE RE-SUBMITTED

- ☐ Two bond copies (no mylar)
☐ Electronic media with comma-separated coordinate file

REVIEW ITEM	OK	SEE R/L	N/A	COMMENTS
Submittal Contents				
Two bond copies (no mylar)	☐	☐	☐	
Electronic media containing comma-separated coordinate file	☐	☐	☐	
General Map Contents				
Sheet size 24" x 36"	☒	☐	☐	
Sheet number and number of sheets	☒	☐	☐	
North arrow (pointing up, left or right)	☒	☐	☐	
Scale (written & graphic, correctly shown, appropriate scale used)	☒	☐	☐	
Lettering legibility (minimum text size 0.08")	☒	☐	☐	
Map title shown ("Sanitary Sewer Final Location Map")	☒	☐	☐	
CLV project name shown	☒	☐	☐	
CLV Hansen No. shown	☒	☐	☐	
CLV Drawing No. shown	☒	☐	☐	
Preparer's company name and contact information shown	☒	☐	☐	
Legend (all linetypes and symbols defined)	☒	☐	☐	
Non-standard abbreviations defined	☒	☐	☐	
Distances, coordinates and elevations labeled using decimal feet	☒	☐	☐	
Approximate limits of streets shown (improvements or right-of-way)	☒	☐	☐	
Street names labeled (identified as public or private)	☐	☒	☐	HAND CHANGED NAMES PER PHONE CALL w/ SUPERVISOR

REVIEW CHECKLIST – SANITARY SEWER FINAL LOCATION MAP

REVIEW ITEM	OK	SEE R/L	N/A	COMMENTS
Sanitary Sewer Improvements Data				
*NOTE As of December 1, 2015 manhole cover locations are no longer required.				
Manhole Barrel/Base: (measured horizontally at centerline of structure barrel/base, vertical location does not apply)	☒	☐	☐	
Vaults and Junction Structures: (measured horizontally at all outer extents of structure, vertically at top of structure)	☐	☐	☒	
Lateral/Main/Interceptor Pipes: locate at all connections to other pipes and structures, all horizontal and vertical deflections, points of termination (stubs), point at which pipe exits the public right-of-way or easement (measured horizontally at centerline of pipe, vertically at top of pipe)	☒	☐	☐	
*NOTE All pipe connections to manholes and other structures should be located at outside face of structure before backfilling due to accuracy limitations of pipe measurements from the structure's surface access point.				
Coordinate Information				
Data acquisition completion date indicated	☒	☐	☐	
Coordinate system indicated (only CLV approved coordinate systems are to be used)	☒	☐	☐	
Horizontal datum, datum adjustment, and epoch date indicated (only CLV approved datums are to be used)	☒	☐	☐	
Benchmark ID, description, elevation indicated	☒	☐	☐	
Statement of positional accuracy per the tolerances indicated below	☒	☐	☐	
*NOTE For all projects with improvement plans approved prior to March 1, 2015 coordinates provided must be accurate to within ±0.5 feet horizontally and vertically. For all projects with improvement plans approved after March 1, 2015 coordinates provided must be accurate to within ±0.3 feet horizontally and vertically.				
Coordinate accuracy QA/QC (when available)	☒	☐	☐	

ADDITIONAL COMMENTS

Memorandum

Department of Public Works
City Engineer Division
Survey Section
333 North Rancho Dr., 8th Floor
Las Vegas, Nevada 89106

Phone (702) 229-6217
Fax (702) 804-8582

To: Michael Cunningham, Manager
Building and Safety Department

From: Alan R. Riecki, PLS
City Surveyor

C: Bruce L. Stratton, PLS
L.R. Nelson Consulting Engineers, Inc.

Tim Parks, P.E., Engineering Project Manager
Sanitary Sewers Section, Engineering Planning

Date: March 6, 2018

Re: Sanitary Sewer Final Location Map
SAVONA AT SUMMERLIN PHASE 1
(Drawing No. 107Y5023-1, L-Civil No. 56545-B)

The Survey Section has reviewed the Final Location Map and as far as our jurisdiction of this project is concerned, we find that the map is:

Acceptable: March 6, 2018



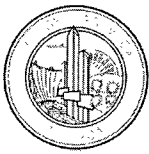
Signature

For: City Surveyor

Title

Public Works/Survey

Department/Division



City of Las Vegas
Department of Public Works
Survey Section

REVIEW CHECKLIST
SANITARY SEWER
FINAL LOCATION MAP

JOB NUMBER 56545 SS3-B
PROJECT NAME SAVONA AT SUMMERLIN PHASE 1
WORK AUTH. NO. P28000
SUBMITTED BY LR Nelson (Bruce L. Stratton)
PROJECT TYPE CIP ☐ Land Dev ☒ Street Rehab ☐
DATE 3/6/18
REVIEWED BY O. SANTANA

REVIEW DETERMINATION

- ☒ Approved
☐ Not Acceptable

TO BE RE-SUBMITTED

- ☐ Two bond copies (no mylar)
☐ Electronic media with comma-separated coordinate file

REVIEW ITEM	OK	SEE R/L	N/A	COMMENTS
Submittal Contents				
Two bond copies (no mylar)	☒	☐	☐	
Electronic media containing comma-separated coordinate file	☒	☐	☐	
General Map Contents				
Sheet size 24" x 36"	☐	☐	☐	
Sheet number and number of sheets	☐	☐	☐	
North arrow (pointing up, left or right)	☐	☐	☐	
Scale (written & graphic, correctly shown, appropriate scale used)	☐	☐	☐	
Lettering legibility (minimum text size 0.08")	☐	☐	☐	
Map title shown ("Sanitary Sewer Final Location Map")	☐	☐	☐	
CLV project name shown	☐	☐	☐	
CLV Hansen No. shown	☒	☐	☐	
CLV Drawing No. shown	☒	☐	☐	
Preparer's company name and contact information shown	☐	☐	☐	
Legend (all linetypes and symbols defined)	☐	☐	☐	
Non-standard abbreviations defined	☐	☐	☐	
Distances, coordinates and elevations labeled using decimal feet	☐	☐	☐	
Approximate limits of streets shown (improvements or right-of-way)	☐	☐	☐	
Street names labeled (identified as public or private)	☐	☐	☐	

REVIEW CHECKLIST – SANITARY SEWER FINAL LOCATION MAP

REVIEW ITEM	OK	SEE R/L	N/A	COMMENTS
Sanitary Sewer Improvements Data				
*NOTE As of December 1, 2015 manhole cover locations are no longer required.				
Manhole Barrel/Base: (measured horizontally at centerline of structure barrel/base, vertical location does not apply)	☒	☐	☐	
Vaults and Junction Structures: (measured horizontally at all outer extents of structure, vertically at top of structure)	☐	☐	☒	
Lateral/Main/Interceptor Pipes: locate at all connections to other pipes and structures, all horizontal and vertical deflections, points of termination (stubs), point at which pipe exits the public right-of-way or easement (measured horizontally at centerline of pipe, vertically at top of pipe)	☒	☐	☐	Angle Points near wye connections are waived for this project.
*NOTE All pipe connections to manholes and other structures should be located at outside face of structure before backfilling due to accuracy limitations of pipe measurements from the structure's surface access point.				
Coordinate Information				
Data acquisition completion date indicated	☐	☐	☐	
Coordinate system indicated (only CLV approved coordinate systems are to be used)	☐	☐	☒	LOCAL PROJECT COORDINATES
Horizontal datum, datum adjustment, and epoch date indicated (only CLV approved datums are to be used)	☐	☐	☒	USED FOR THIS PROJECT BY LR Nelson.
Benchmark ID, description, elevation indicated	☒	☐	☐	
Statement of positional accuracy per the tolerances indicated below	☒	☐	☐	
*NOTE For all projects with improvement plans approved prior to March 1, 2015 coordinates provided must be accurate to within ±0.5 feet horizontally and vertically. For all projects with improvement plans approved after March 1, 2015 coordinates provided must be accurate to within ±0.3 feet horizontally and vertically.				
Coordinate accuracy QA/QC (when available)	☒	☐	☐	

ADDITIONAL COMMENTS
Absolute positioning waived for this project. Surveyor provided project monument control along with sewer final location shots.
CLV will will move and position data using information provided by LR Nelson.