

**LEGEND**

	LOT LINE
	RIGHT-OF-WAY LINE
	SUBDIVISION BOUNDARY
	DESIGN SEWER LINE
	AS-BUILT SEWER LINE
	ASSESSORS PARCEL LINE
	AS-BUILT SEWER MANHOLE
	AS-BUILT POINT NUMBER
	PRIVATE STREET, PUBLIC UTILITY SEWER EASEMENT AND PUBLIC DRAINAGE EASEMENT TO BE PRIVATELY MAINTAINED.

**HORIZONTAL DATUM**  
 HORIZONTAL DATUM SHOWN HEREON IS BASED UPON NORTH AMERICAN DATUM OF 1983 (NAD '83), NEVADA STATE PLANE COORDINATE SYSTEM EAST ZONE (2701), CORS98, EPOCH 2002.0 REALIZATION.

**BENCHMARK**  
 CITY OF LAS VEGAS BENCHMARK: 7LV09 34SW8A  
 BEING A RIVET AND PLATE IN TOP OF CURB IN THE SOUTHEAST CORNER OF DESERT MOON ROAD & DESERT SUNRISE ROAD  
 ELEVATION: 3301.47 (U.S. SURVEY FEET)  
 1006.289 (METERS)

**SURVEYOR'S NOTE**  
 THE PURPOSE OF THIS SURVEY IS TO PROVIDE AS-BUILT INFORMATION FOR THE SEWER LINE AND SEWER LATERALS IN ANDORRA & CASTILLE PHASE 2, BOOK 145, PAGE 76 OF PLATS, SITUATE WITHIN THE NORTHWEST QUARTER (NW 1/4) OF SECTION 34, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AND THE SURVEY WAS COMPLETED ON NOVEMBER 12, 2013.  
 THE POSITIONAL CERTAINTY OF THE AS-BUILT INFORMATION SHOWN HEREON IS WITHIN +/- 0.3' HORIZONTALLY AND VERTICALLY.  
 TRI-CORE SURVEYING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FOR THE CONVENIENCE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL LOCATION OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY TRI-CORE SURVEYING IN WRITING IMMEDIATELY.

POINT #	GRID NORTH	GRID EAST	ELEVATION	DESCRIPTION
20050	26763029.8537	719864.5077	3421.50	SSMH Lid
20051	26763172.2068	719837.2506	3424.61	SSMH Lid
20052	26763204.1336	720060.6432	3413.66	SSMH Lid
20053	26763427.3813	719803.7014	3434.10	SSMH Lid
20054	26763468.0683	720029.2391	3424.24	SSMH Lid
20055	26763473.4155	720313.7125	3410.43	SSMH Lid
30000	26763236.1678	720118.9808	3404.54	Top 4" Lateral
30002	26763205.7441	720122.0360	3403.42	Top 8" PVC @ "Y"
30003	26763205.8259	720119.3930	3403.50	Top 8" PVC @ "Y"
30006	26763203.3538	720099.8450	3404.28	Top 8" PVC @ "Y"
30008	26763140.4091	720103.1430	3405.62	Top 4" Lateral
30009	26763205.1536	720089.0951	3404.67	Top 8" PVC @ "Y"
30011	26763241.3504	720087.0492	3407.10	Top 4" Lateral
30014	26763202.3037	720042.2204	3406.81	Top 8" PVC @ "Y"
30016	26763185.9877	720043.0271	3409.03	Top 4" Lateral
30017	26763201.6572	720038.3434	3407.03	Top 8" PVC @ "Y"
30019	26763235.5909	720034.9398	3409.61	Top 4" Lateral
30020	26763198.6133	720000.8880	3408.92	Top 8" PVC @ "Y"
30022	26763183.9874	720002.4123	3410.61	Top 4" Lateral
30023	26763196.0209	719997.3710	3408.01	Top 8" PVC @ "Y"
30025	26763229.6314	719993.1175	3410.95	Top 4" Lateral
30026	26763189.8163	719953.9177	3411.25	Top 8" PVC @ "Y"
30028	26763224.4187	719948.6490	3413.72	Top 4" Lateral
30029	26763183.1283	719907.1414	3413.56	Top 8" PVC @ "Y"
30031	26763219.0018	719902.2136	3416.98	Top 4" Lateral
30035	26763031.9437	719854.0525	3414.26	Top 8" PVC @ SSMH
30036	26763048.0834	719860.8808	3414.63	Top 8" PVC @ "Y"
30038	26763043.3184	719833.1823	3417.29	Top 4" Lateral
30039	26763066.5470	719857.1998	3414.92	Top 8" PVC @ "Y"
30041	26763070.4441	719876.8924	3416.86	Top 4" Lateral
30042	26763115.2200	719847.6786	3416.05	Top 8" PVC @ "Y"
30044	26763110.4133	719813.1001	3418.72	Top 4" Lateral
30045	26763131.9386	719844.3089	3416.39	Top 8" PVC @ "Y"
30047	26763136.5411	719858.1124	3418.16	Top 4" Lateral
30048	26763160.9470	719838.9178	3416.80	Top 8" PVC @ "Y"
30050	26763155.9450	719810.8663	3417.89	Top 4" Lateral
30051	26763178.9316	719835.2729	3417.27	Top 8" PVC @ "Y"
30053	26763174.5337	719807.2823	3419.87	Top 4" Lateral
30054	26763224.0921	719829.9021	3419.11	Top 8" PVC @ "Y"
30056	26763221.9042	719802.8463	3420.75	Top 4" Lateral
30057	26763277.3773	719823.1154	3421.11	Top 8" PVC @ "Y"
30059	26763275.8626	719797.7135	3422.84	Top 4" Lateral
30060	26763333.7446	719815.9114	3423.15	Top 8" PVC @ "Y"
30062	26763331.8050	719791.9506	3425.04	Top 4" Lateral
30065	26763429.1646	719816.2482	3426.21	Top 8" PVC @ "Y"
30067	26763458.8596	719787.7651	3428.25	Top 4" Lateral
30068	26763432.7867	719836.3348	3425.20	Top 8" PVC @ "Y"
30070	26763466.7511	719829.9412	3426.58	Top 4" Lateral

POINT #	GRID NORTH	GRID EAST	ELEVATION	DESCRIPTION
30071	26763435.4043	719851.2076	3424.72	Top 8" PVC @ "Y"
30073	26763419.0736	719854.0713	3425.81	Top 4" Lateral
30074	26763442.8378	719892.9348	3422.87	Top 8" PVC @ "Y"
30076	26763474.7752	719887.2144	3424.61	Top 4" Lateral
30077	26763450.6642	719934.1499	3421.05	Top 8" PVC @ "Y"
30079	26763435.8593	719935.9215	3422.81	Top 4" Lateral
30080	26763452.9385	719947.1687	3420.48	Top 8" PVC @ "Y"
30082	26763482.9229	719941.2395	3421.69	Top 4" Lateral
30083	26763460.9531	719989.8739	3418.76	Top 8" PVC @ "Y"
30085	26763444.1153	719991.7226	3420.60	Top 4" Lateral
30086	26763461.0953	720001.6466	3418.20	Top 8" PVC @ "Y"
30088	26763492.7637	719995.9345	3419.74	Top 4" Lateral
30093	26763147.5973	720123.3612	3405.49	Top 4" Lateral
30094	26763207.8141	720187.3078	3401.17	CONNECT
30096	26763473.7606	720299.8549	3404.40	Top 8" PVC @ "Y"
30098	26763504.4033	720300.3418	3406.00	Top 4" Lateral
30099	26763506.3903	720245.7898	3407.84	Top 4" Lateral
30101	26763472.2106	720245.4118	3407.12	Top 8" PVC @ "Y"
30102	26763472.6892	720259.7760	3406.41	Top 8" PVC @ "Y"
30104	26763452.9718	720258.1080	3408.15	Top 4" Lateral
30105	26763470.8722	720168.6344	3410.61	Top 8" PVC @ "Y"
30107	26763458.2691	720168.4664	3412.30	Top 4" Lateral
30108	26763470.5242	720160.5956	3411.01	Top 8" PVC @ "Y"
30110	26763507.9543	720161.2557	3412.76	Top 4" Lateral
30111	26763469.5271	720110.4154	3413.31	Top 8" PVC @ "Y"
30113	26763454.2725	720110.4398	3414.39	Top 4" Lateral
30114	26763462.4840	720108.0884	3413.50	Top 8" PVC @ "Y"
30116	26763504.8827	720105.6086	3415.34	Top 4" Lateral
30117	26763468.6831	720053.5494	3416.05	Top 8" PVC @ "Y"
30119	26763497.9366	720050.4035	3417.60	Top 4" Lateral
30120	26763468.7858	720050.8246	3416.18	Top 8" PVC @ "Y"
30122	26763449.1952	720051.6158	3417.28	Top 4" Lateral
30123	26763413.2580	719768.7273	3428.14	Top 4" Lateral
30125	26763416.2919	719805.3012	3426.22	Top 8" PVC @ "Y"
50000	26763204.4736	720000.7361	3405.51	SSMH Invert
50001	26763204.5668	720062.5371	3405.44	SSMH Invert Out
50002	26763204.2364	720059.1062	3405.49	SSMH Invert In
50003	26763171.1278	719837.1367	3416.39	SSMH Invert Out South
50004	26763172.8909	719838.0665	3416.52	SSMH Invert Out East
50005	26763172.9308	719836.7545	3416.43	SSMH Invert
50007	26763174.4188	719836.4403	3416.47	SSMH Invert In
50008	26763425.7493	719803.5386	3426.03	SSMH Invert Out
50009	26763427.1003	719803.5375	3426.09	SSMH Invert
50010	26763427.3904	719804.7734	3426.04	SSMH Invert Out
50011	26763467.5181	720028.0682	3416.39	SSMH Invert In
50012	26763468.0033	720029.7231	3416.38	SSMH Invert
50013	26763467.8155	720031.2631	3416.22	SSMH Invert Out



DATE:	1/21/2014
INCH:	GS
DRAWN BY:	GS
DESIGNED BY:	INX
CHECKED BY:	INX
ADA CHECKED:	
JOB NO.:	06012.0004
SCALE:	1"=40'
NO.:	DESCRIPTION:
DATE:	APPROVED:

**TRI-CORE SURVEYING, LLC**  
 LAND SURVEYING - CONSTRUCTION STAKING  
 MAPPING & LAND DEVELOPMENT SERVICES  
 BOUNDARY & TOPOGRAPHIC SURVEYS  
 6781 WEST CHARLESTON BLVD.  
 LAS VEGAS, NEVADA 89146  
 TEL (702) 821-1554 FAX (702) 870-4378

**WOODSIDE HOMES**  
**ANDORRA & CASTILLE - PHASE II**  
**SANITARY SEWER FINAL LOCATION MAP**

PROFESSIONAL LAND SURVEYOR  
 STATE OF NEVADA  
 GREGORY D. SPINKELINK  
 No. 14419  
 1-21-14

C.L.V. H# 46963  
 FMP - 47197

P: \\V012.0003\_Andorra\_Castille\_Construction\Submittal Sewer Asbuilt Unit 2\Andorra & Castille Unit 2 Sewer Asbuilt.dwg gpinshnik Tue, 21 Jan 2014 - 1:32pm

# Memorandum

City of Las Vegas  
Department of Public Works  
City Engineer Division  
Survey Section

To: Chris Knight, Director  
Building and Safety Department

From: Alan R. Riecki, PLS  
City Surveyor

C: Greg Spinkelink, PLS  
Tri-Core Surveying

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

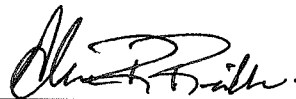
Date: January 28, 2014

Re: Sanitary Sewer Final Location Map  
Andorra & Castille - Phase II  
(CLV Drawing No. 107Y4982-2, L-Civil No. 46963)

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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: 1/28/2014



Signature

City Surveyor

Title

Public Works/Survey

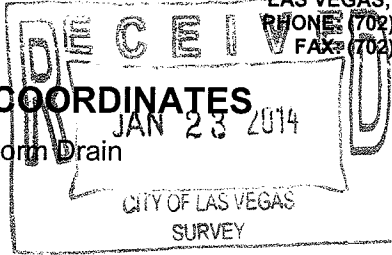
Department/Division

ARR/MK:sy

# 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: ANDORRA & CASTILLE PHASE 2 UNIT: \_\_\_\_\_ PHASE: \_\_\_\_\_  
 PROJECT LOCATION: SUMMERLIN VILLAGE Z3A - LAS VEGAS  
 CLV PLAN #: ? 49822 CLV PROJECT # H# 46963 SHEET NO. (S): 6-8 of 9  
 # OF MANHOLES 6 PUB. SEWER/STORM DRAIN LIN. FT. 1255 # OF PRIVATE LATERALS 37

DEVELOPER: WOODSIDE HOMES PHONE: 889-7800 FAX: 889-0801  
 SURVEY CO.: TRI-CORE SURVEYING PHONE: 821-1554 FAX: 870-4378  
 CONTRACTOR: MOUNTAIN PINES CONST. PHONE: 436-0978 FAX: 952-0878  
 CONTRACTOR'S SUPERVISOR NAME: JOHN MACKAY MOBILE: 677-0452  
 DATE OF REQUEST: 1-21-14

### THIS SEWER HAS BEEN SURVEYED BY NEVADA LICENSED LAND SURVEYOR:

Company Name TRI-CORE SURVEYING Surveyor Name GREG SPINKELINK  
 License # 14419 License exp. Date: 6-30-14

#### CITY USE ONLY

DATE SR. INSPECTOR RECEIVED: \_\_\_\_\_ SR. INSPECTOR INITIALS: 1/23/14

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

ACCEPTABLE BY CITY SURVEYOR DATE: 1/28/14 NOT ACCEPTABLE BY CITY SURVEYOR DATE \_\_\_\_\_

CLV SURVEYOR'S SIGNATURE: [Signature] DATE: 1/28/14

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: JOE PENNA  
(PLEASE PRINT)

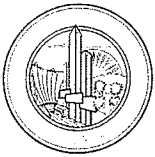
SIGNATURE: [Signature] DATE: 1-30-2014

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

RECEIVED BY: \_\_\_\_\_  
(PLEASE PRINT)

SIGNATURE: \_\_\_\_\_ DATE: City of Las Vegas Land Development

RECEIVED  
JAN 23 2014  
OFFSITE INSPECTION & TESTING



**City of Las Vegas**  
**Department of Public Works**  
**Survey Section**

**REVIEW CHECKLIST**  
**SANITARY SEWER**  
**FINAL LOCATION MAP**

JOB NUMBER 46963.SS1  
 PROJECT NAME ANDORCA CASTLE PH 2  
 WORK AUTH. NO. P28000  
 SURVEY FIRM TKI COEE SURVEYING  
 PROJECT TYPE CIP  Land Dev  Street Rehab   
 DATE 1/28/2014  
 REVIEWED BY M. KINNEY

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

**REVIEW CHECKLIST – SANITARY SEWER FINAL LOCATION MAP**

REVIEW ITEM	OK	SEE R/L	N/A	COMMENTS
<b>Sanitary Sewer Improvements Data</b>				
Manhole lid (measured horizontally at centerline of lid, vertically at rim)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Manhole barrel (measured horizontally at centerline of overall manhole structure, vertical location does not apply)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Manhole/pipe connections (measured horizontally at outside face of manhole structure, vertically at top of pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Main/lateral pipe connections (measured horizontally at intersection of main pipe and produced line of lateral pipe, vertically at top of main pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lateral pipe at right-of-way line (measured horizontally at point lateral pipe intersects right-of-way line or at a point along lateral pipe outside right-of-way, vertically at top of lateral pipe)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>*NOTE</b> Any significant deviations (either horizontally or vertically) along the lateral pipe run (between intersection with right-of-way line and connection at main) are to be measured at top of lateral pipe and shown on map.				
<b>Survey Information</b>				
Survey completion date indicated	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Statement of positional certainty (0.3' horizontally, 0.3' vertically)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Surveyor's seal (validated and current)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Basis of bearings and coordinate system indicated (only CLV approved coordinate systems are to be used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Datum, datum tag and epoch date indicated (only CLV approved datums are to be used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Benchmark ID, description, elevation and CLV adjustment indicated	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>*NOTE</b> Only benchmarks and benchmark elevations included in the most recent CLV Vertical Control Network adjustment are to be used, this may require using a different benchmark or benchmark elevation than shown on the improvement plans.				
Survey accuracy QA/QC (when available)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PER 44992 SEWER

<b>ADDITIONAL COMMENTS</b>				