

# Memorandum

Department of Public Works  
City Engineer Division  
Survey Section  
333 North Rancho Dr., 8<sup>th</sup> 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: Ross J. Doyle, PLS  
Tri-Core Surveying

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

Date: January 28, 2019

Re: Sanitary Sewer Final Location Map  
HAMMER AND KEVIN SEWER ONLY  
(Drawing No. 307V1141, L-Civil No. L17-01036)

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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: January 28, 2019



Signature

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 L17-01036 SS1  
 PROJECT NAME HAMMER & KEVIN  
 WORK AUTH. NO. P28000  
 SUBMITTED BY TRICORE SURVEYING (ROSS J. DOYLE)  
 PROJECT TYPE CIP  Land Dev  Street Rehab   
 DATE 1/28/18  
 REVIEWED BY \_\_\_\_\_

**REVIEW DETERMINATION**

- Approved
- Not Acceptable

**TO BE RE-SUBMITTED**

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

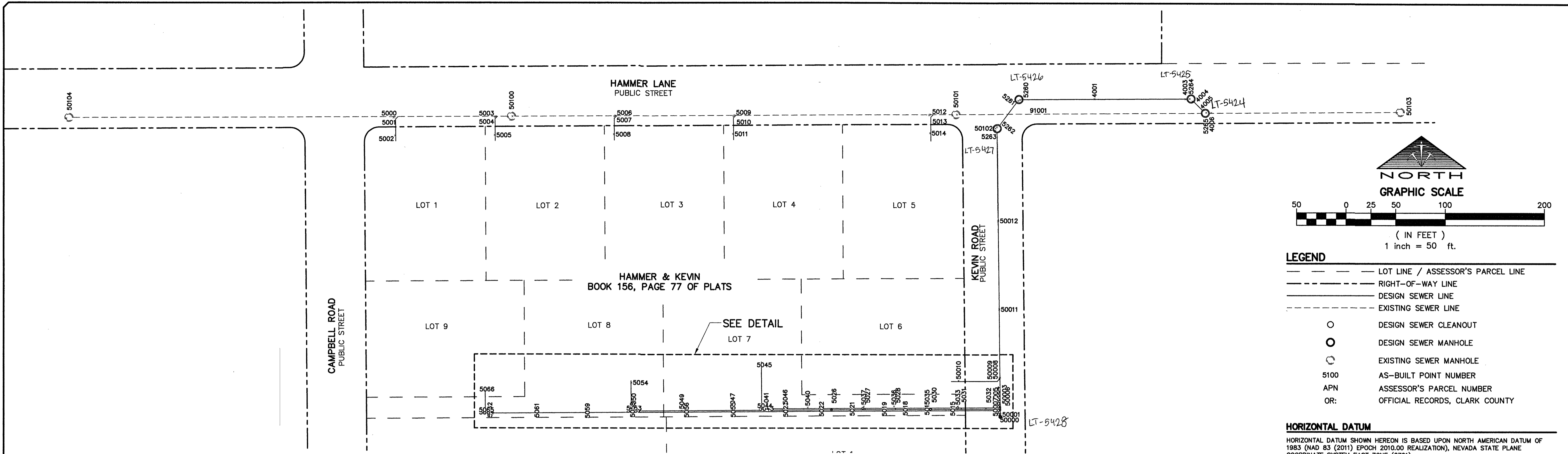
REVIEW ITEM	OK	SEE R/L	N/A	COMMENTS
<b>Submittal Contents</b>				
Two bond copies (no mylar)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Electronic media containing comma-separated coordinate file	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Preparer'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 checked="" type="checkbox"/>	<input type="checkbox"/>	KEVIN WAY

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

REVIEW ITEM	OK	SEE R/L	N/A	COMMENTS
<b>Sanitary Sewer Improvements Data</b>				
<b>*NOTE</b> As of December 1, 2015 <b>manhole cover locations are no longer required.</b>				
Manhole Barrel/Base: (measured horizontally at centerline of structure barrel/base, vertical location does not apply)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Vaults and Junction Structures: (measured horizontally at all outer extents of structure, vertically at top of structure)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>*NOTE</b> 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.				
<b>Coordinate Information</b>				
Data acquisition completion date indicated	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Coordinate system indicated (only CLV approved coordinate systems are to be used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Horizontal datum, datum adjustment, 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 indicated	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Statement of positional accuracy per the tolerances indicated below	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>*NOTE</b> For all projects with improvement plans approved <b>prior to March 1, 2015</b> coordinates provided must be accurate to within <b>±0.5 feet</b> horizontally and vertically. For all projects with improvement plans approved <b>after March 1, 2015</b> coordinates provided must be accurate to within <b>±0.3 feet</b> horizontally and vertically.				
Coordinate accuracy QA/QC (when available)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

ADDITIONAL COMMENTS

P:\31018.0000 - Kevin & Hammer\Construction\Abuaita\SEWER AS-BUILT\TS\Kevin&Hammer Sewer As-Built.dwg rdoyle Mon, 31 Dec 2018 - 7:03am

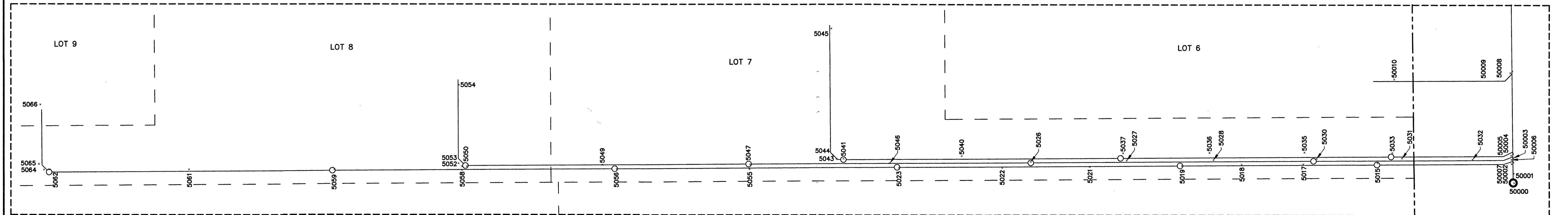


POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
4001	26796080.70	742539.54	2491.11	TOP 8" PVC MAIN
4003	26796080.88	742631.24	2490.22	TOP 8" PVC MAIN IN
4004	26796078.70	742638.38	2489.93	TOP 8" PVC MAIN OUT
4005	26796070.15	742649.97	2489.73	TOP 8" PVC MAIN IN
4006	26796067.15	742657.37	2489.01	TOP 8" PVC MAIN OUT
5000	26796062.03	741832.71	2514.93	TOP 8" PVC MAIN
5001	26796061.27	741831.98	2514.98	TOP 4" PVC LATERAL
5002	26796043.22	741833.65	2515.54	TOP 4" PVC LATERAL
5003	26796062.62	741935.06	2512.52	TOP 8" PVC MAIN
5004	26796061.86	741934.31	2512.61	TOP 4" PVC LATERAL
5005	26796043.81	741934.08	2513.42	TOP 4" PVC LATERAL
5006	26796063.40	742055.82	2509.75	TOP 8" PVC MAIN
5007	26796062.71	742054.76	2509.80	TOP 4" PVC LATERAL
5008	26796044.67	742054.46	2510.37	TOP 4" PVC LATERAL
5009	26796063.96	742175.86	2507.17	TOP 8" PVC MAIN
5010	26796063.13	742174.98	2507.22	TOP 4" PVC LATERAL
5011	26796045.17	742174.52	2507.54	TOP 4" PVC LATERAL
5012	26796065.12	742373.55	2502.51	TOP 8" PVC MAIN
5013	26796064.37	742372.80	2502.65	TOP 4" PVC LATERAL
5014	26796046.33	742373.82	2503.75	TOP 4" PVC LATERAL
5015	26795768.40	742396.80	2497.95	TOP 4" PVC CLEANOUT

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
5017	26795767.93	742370.59	2499.46	TOP 4" PVC LATERAL
5018	26795767.72	742348.79	2500.66	TOP 4" PVC LATERAL
5019	26795767.31	742327.66	2501.85	TOP 4" PVC CLEANOUT
5021	26795767.01	742295.12	2503.12	TOP 4" PVC LATERAL
5022	26795766.62	742264.19	2504.20	TOP 4" PVC LATERAL
5023	26795766.54	742227.76	2505.64	TOP 4" PVC CLEANOUT
5026	26795768.73	742274.26	2503.44	TOP 4" PVC CLEANOUT
5027	26795769.24	742308.20	2501.88	TOP 4" PVC LATERAL
5028	26795769.39	742338.80	2500.49	TOP 4" PVC LATERAL
5030	26795769.85	742375.34	2498.83	TOP 4" PVC CLEANOUT
5031	26795770.04	742405.44	2496.94	TOP 4" PVC LATERAL
5032	26795769.66	742430.37	2495.38	TOP 4" PVC LATERAL
5033	26795771.99	742402.01	2497.63	TOP 4" PVC CLEANOUT
5035	26795772.07	742371.03	2499.22	TOP 4" PVC LATERAL
5036	26795771.92	742337.41	2501.05	TOP 4" PVC LATERAL
5037	26795771.76	742306.89	2502.71	TOP 4" PVC CLEANOUT
5040	26795770.69	742249.94	2504.02	TOP 4" PVC LATERAL
5041	26795769.70	742208.11	2504.92	TOP 4" PVC CLEANOUT
5043	26795769.57	742205.69	2504.99	TOP 4" PVC LATERAL
5044	26795770.88	742204.35	2505.20	TOP 4" PVC LATERAL
5045	26795815.51	742203.75	2506.96	TOP 4" PVC LATERAL

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
5046	26795768.12	742224.50	2504.86	TOP 4" PVC LATERAL
5047	26795767.62	742174.84	2506.23	TOP 4" PVC CLEANOUT
5049	26795767.51	742122.70	2507.28	TOP 4" PVC LATERAL
5050	26795766.91	742074.83	2508.30	TOP 4" PVC CLEANOUT
5052	26795766.91	742073.06	2508.36	TOP 4" PVC LATERAL
5053	26795767.97	742071.89	2508.38	TOP 4" PVC LATERAL
5054	26795795.54	742071.95	2509.39	TOP 4" PVC LATERAL
5055	26795765.98	742174.61	2506.59	TOP 4" PVC LATERAL
5056	26795765.96	742127.78	2507.55	TOP 4" PVC CLEANOUT
5058	26795765.57	742073.08	2508.56	TOP 4" PVC LATERAL
5059	26795765.77	742027.82	2509.56	TOP 4" PVC CLEANOUT
5061	26795765.81	741976.53	2510.68	TOP 4" PVC LATERAL
5062	26795765.79	741927.20	2511.92	TOP 4" PVC CLEANOUT
5064	26795765.74	741925.30	2511.98	TOP 4" PVC LATERAL
5065	26795767.69	741923.48	2512.01	TOP 4" PVC LATERAL
5066	26795788.65	741923.96	2512.64	TOP 4" PVC LATERAL
5260	26796080.29	742466.40	2492.16	TOP 8" PVC MAIN OUT
5261	26796078.87	742462.61	2492.29	TOP 8" PVC MAIN IN
5262	26796052.53	742441.28	2492.58	TOP 8" PVC MAIN OUT
5263	26796048.90	742439.78	2492.89	TOP 8" PVC MAIN IN
5264	26796081.18	742635.64	2505.41	SSMH CL BARREL

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
5265	26796067.35	742652.32	2504.72	SSMH CL BARREL
50000	26795761.47	742445.01	2493.93	SSMH CL BARREL
50001	26795764.75	742444.86	2494.48	TOP 8" PVC MAIN OUT
50002	26795768.72	742444.80	2494.43	TOP 8" PVC MAIN
50003	26795770.23	742444.71	2494.42	TOP 8" PVC MAIN
50004	26795771.76	742444.65	2494.34	TOP 8" PVC MAIN
50005	26795771.10	742444.02	2494.49	TOP 4" PVC LATERAL
50006	26795769.64	742444.11	2494.46	TOP 4" PVC LATERAL
50007	26795768.17	742444.16	2494.56	TOP 4" PVC LATERAL
50008	26795800.80	742444.41	2494.22	TOP 8" PVC MAIN
50009	26795800.18	742443.70	2494.34	TOP 4" PVC LATERAL
50010	26795797.90	742402.65	2497.22	TOP 4" PVC LATERAL
50011	26795869.51	742443.55	2493.92	TOP 8" PVC MAIN
50012	26795958.32	742442.54	2493.31	TOP 8" PVC MAIN
50100	26796062.67	741952.03	2520.22	INV SSMH CL BARREL
50101	26796065.02	742400.91	2509.75	INV SSMH CL BARREL
50102	26796051.24	742440.01	2508.09	INV SSMH CL BARREL
50103	26796068.31	742851.95	2500.49	INV SSMH CL BARREL
50104	26796060.35	741501.53	2529.61	INV SSMH CL BARREL
91001	26796079.76	742464.50	2491.30	SSMH CL BARREL



DETAIL  
NOT TO SCALE

CLV PROJECT L17-01036  
CLV DRAWING #307V1141  
NFM-17-500209

DATE:	12/31/2018	CS	RD	GS	APR/D
DRAWN BY:	CS	RD	GS	DATE	
DESIGNED BY:	CS	RD	GS	DESCRIPTION	
CHECKED BY:	CS	RD	GS	NO. 1	
ADA CHECKED:				SCALE: 1"=50'	
JOB NO.:	31018.0006				

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**Tri-Core Surveying, LLC**  
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TEL (702) 821-1554 FAX (702) 870-4378

**HAMMER & KEVIN**  
THM ENTERPRISES LLC  
SANITARY SEWER FINAL LOCATION MAP

PROFESSIONAL LAND SURVEYOR  
ROSS J. DOYLE  
EXPIRES 12-31-19  
No. 22612  
12-31-18

SHEET  
**1**  
OF 1