

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: Ross J. Doyle, PLS
Tri-Core Surveying

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

Date: October 17, 2018

Re: Sanitary Sewer Final Location Map
ELKHORN 40 PHASE 2
(Drawing No. 107Y5059-2, L-Civil No. L17-01163)

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: October 16, 2018



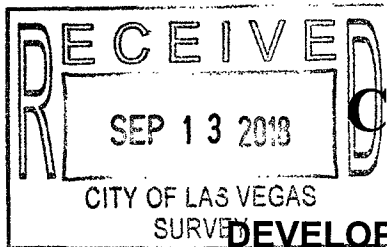
Signature

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) 631-3000

DEVELOPER'S SUBMITTAL OF LOCATION COORDINATES

- ☒ Sewer ☐ Storm Drain
- ☒ Electronic Comma Delineated File
- ☒ Final Location Map (2 copies each for either sewer OR storm drain)

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

PROJECT NAME: Elkhorn 40 UNIT: PHASE: 2

PROJECT LOCATION: Elkhorn Road and Tenaya Way in Las Vegas, NV

CLV PLAN #: 107y5059-2 CLV PROJECT # L17-01163 SHEET NO. (S): 10 of 21

OF MANHOLES 1 PUB. SEWER/STORM DRAIN LIN. FT. # OF PRIVATE LATERALS

DEVELOPER: DR Horton PHONE: 702-672-1939 FAX: 1-800-538-0735

SURVEY CO.: Tri-Core Surveying PHONE: 702-821-1554 FAX: 702-870-4378

CONTRACTOR: Western States PHONE: 702-644-1117 FAX:

CONTRACTOR'S SUPERVISOR NAME: Faustino Guerras MOBILE: 702-204-9827

DATE OF REQUEST: September 6, 2018

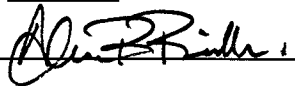
**SUBMIT DIRECTLY TO THE OFFICE OF THE CITY
SURVEYOR LOCATED ON THE 8th FLOOR OF THE
DSC / 333 N Rancho, 89106**

Please get a stamped copy of this form for your records.

CITY USE ONLY

DATE AND INITIALS / RECEIVED BY THE CITY SURVEYOR

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

CLV SURVEYOR'S SIGNATURE:  DATE: 10-17-18

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

Notes:

ROUTING:

- > Once "ACCEPTABLE"; SURVEY to forward a copy of this form to O.I.T. for the file.
- > Final Location Maps to be forwarded to and retained by Flood Control or Sanitation Engineer respectively.



City of Las Vegas
Department of Public Works
Survey Section

REVIEW CHECKLIST
SANITARY SEWER
FINAL LOCATION MAP

JOB NUMBER L17-01163 SS1
PROJECT NAME ELKHORN 40 PHASE 2
WORK AUTH. NO. P28000
SUBMITTED BY TRI-CORE (ROSS J. DOYLE)
PROJECT TYPE CIP ☐ Land Dev ☒ Street Rehab ☐
DATE 10/16/18
REVIEWED BY J. SANTANA

REVIEW DETERMINATION

- ☒ Approved
☐ Not Acceptable

TO BE RE-SUBMITTED

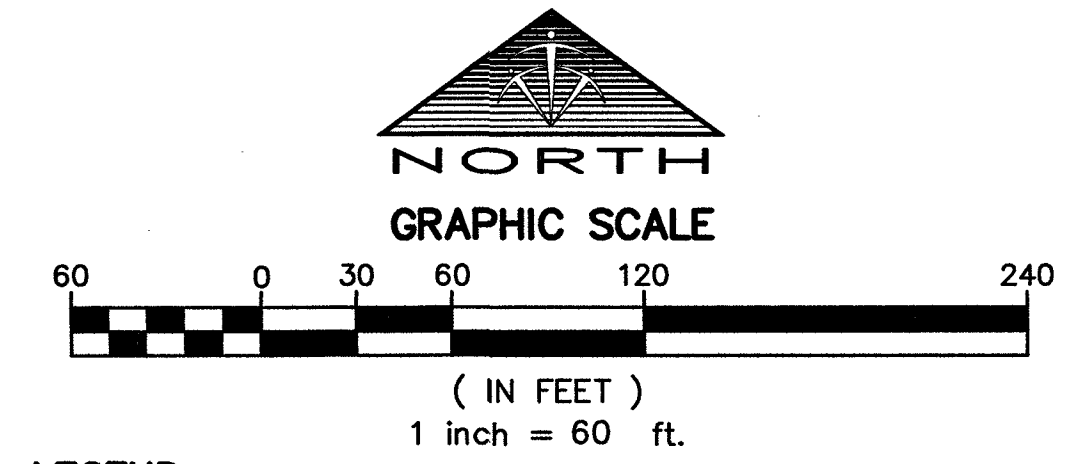
- ☐ Two bond copies (no mylar)
☐ Electronic media with comma-separated coordinate file

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)	☒	☐	☐	
*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



LEGEND	
	SUBDIVISION BOUNDARY LINE
	ALLOTMENT PART LINE
	LOT LINE / ASSESSOR'S PARCEL LINE
	RIGHT-OF-WAY LINE
	DESIGN SEWER LINE
	EXISTING SEWER LINE
	DESIGN SEWER MANHOLE
	EXISTING SEWER MANHOLE
5100	AS-BUILT POINT NUMBER
APN	ASSESSOR'S PARCEL NUMBER
OR:	OFFICIAL RECORDS, CLARK COUNTY, NEVADA

HORIZONTAL DATUM

HORIZONTAL DATUM SHOWN HEREON IS BASED UPON NORTH AMERICAN DATUM OF 1983 (NAD 83 (2011) EPOCH 2010.00 REALIZATION), NEVADA STATE PLANE COORDINATE SYSTEM EAST ZONE (2701).

BENCHMARK

CITY OF LAS VEGAS BENCHMARK: 6LV90 15SS6
RIVET AND PLATE IN TOP OF CURB AT THE NORTHWEST CORNER OF RIO VISTA AND ELKHORN ROAD.
ELEVATION: 2354.98 (U.S. SURVEY FEET)
717.800 (METERS)
BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88), CITY OF LAS VEGAS 2008 ADJUSTMENT

NOTES

THE PURPOSE OF THIS SURVEY IS TO PROVIDE AS-BUILT INFORMATION FOR THE SANITARY SEWER FACILITIES LOCATED THE IMPROVEMENT PLANS OF "ELKHORN 40, PAGE 2", SITUATE IN THE NORTHWEST QUARTER (NW 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 22, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AND THE SURVEY WAS COMPLETED ON DECEMBER 5, 2017.

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 TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
25311	26806781.05	755126.55	2346.11	TOP 8" PVC MAIN IN
25312	26806780.93	755129.96	2345.30	SSMH CL BARREL
25314	26806781.99	755081.51	2346.57	TOP 8" PVC MAIN
25315	26806781.28	755080.95	2346.76	TOP 4" PVC LATERAL
25316	26806761.45	755080.03	2348.39	TOP 4" PVC LATERAL
25317	26806781.94	755079.34	2346.61	TOP 8" PVC MAIN
25318	26806782.61	755078.76	2346.65	TOP 4" PVC LATERAL
25319	26806813.02	755077.35	2348.64	TOP 4" PVC LATERAL
25320	26806784.41	754941.17	2348.12	TOP 8" PVC MAIN
25321	26806785.05	754940.59	2348.23	TOP 4" PVC LATERAL
25322	26806814.91	754941.29	2350.45	TOP 4" PVC LATERAL
25323	26806784.54	754938.24	2348.06	TOP 8" PVC MAIN
25324	26806783.87	754937.69	2348.20	TOP 4" PVC LATERAL
25325	26806764.03	754936.89	2349.44	TOP 4" PVC LATERAL

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
25326	26806784.89	754918.51	2348.24	TOP 8" PVC MAIN
25327	26806784.28	754918.03	2348.36	TOP 4" PVC LATERAL
25328	26806764.40	754916.94	2349.61	TOP 4" PVC LATERAL
25329	26806784.90	754914.88	2348.35	TOP 8" PVC MAIN
25330	26806785.46	754914.32	2348.51	TOP 4" PVC LATERAL
25331	26806815.26	754913.88	2350.04	TOP 4" PVC LATERAL
25332	26806786.07	754853.86	2348.87	TOP 8" PVC MAIN
25333	26806785.56	754853.37	2349.08	TOP 4" PVC LATERAL
25334	26806756.74	754801.20	2352.24	TOP 4" PVC LATERAL
25335	26806786.37	754837.93	2349.09	TOP 8" PVC MAIN
25336	26806787.00	754837.41	2349.12	TOP 4" PVC LATERAL
25337	26806803.08	754796.74	2350.80	TOP 4" PVC LATERAL
25338	26806786.41	754831.48	2349.21	TOP 8" PVC MAIN OUT
25339	26806786.49	754828.43	2348.68	SSMH CL BARREL

DATE : 9/6/2018
DRAWN BY : INK
DESIGNED BY : RD
CHECKED BY : INK
ADA CHECKED :
JOB NO. : 27517.0002
SCALE : 1"=60'
NO. DESCRIPTION
DATE APP'D

TRI-CORE SURVEYING, LLC
LAND SURVEYING • CONSTRUCTION STAKING
BOUNDARY & TOPOGRAPHIC SURVEYS
6761 WEST CHARLESTON BLVD.
LAS VEGAS, NEVADA 89146
TEL (702) 621-1554 FAX (702) 670-4378

DR HORTON
ELKHORN 40 - PHASE 2
SANITARY SEWER FINAL LOCATION MAP

SHEET
1
OF 1