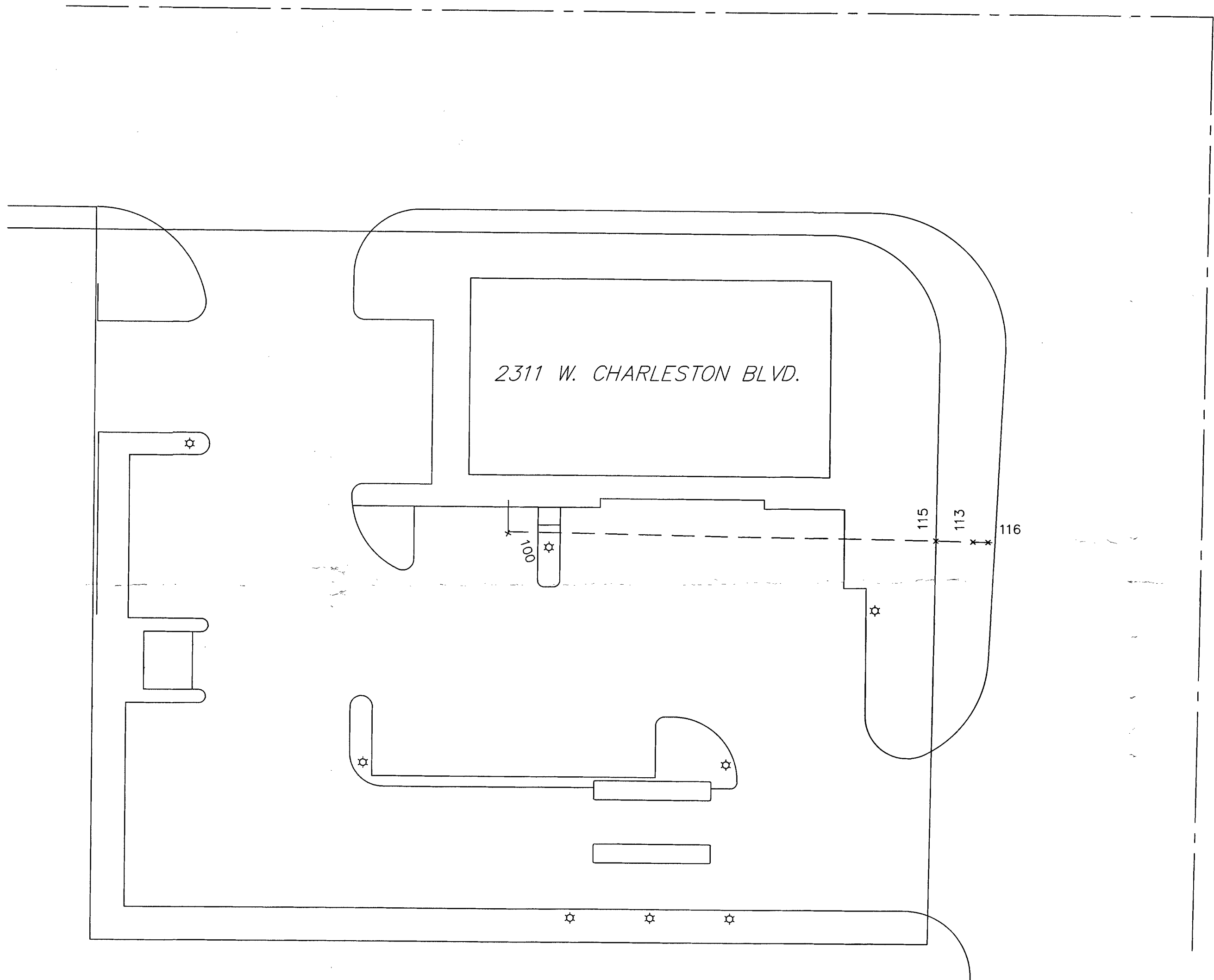


SANITARY SEWER FINAL LOCATION MAP
JP MORGAN CHASE @ CHARLESTON AND RANCHO

CHARLESTON BOULEVARD



SANITARY SEWER POINT TABLE

PT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	622944.3980	267072.3380	2065.81	INVERT CLEANOUT
113	622942.3194	267177.1374	2062.64	TOP 6" PIPE AT 45° BEND
115	622942.5139	267168.7815	2062.93	TOP 6" PIPE AT R/W
116	622942.2403	267180.5365	2062.05	TOP 10" PIPE - SEWER MAIN

SURVEYOR'S NOTE

THE PURPOSE OF THIS SURVEY IS TO PROVIDE AS-BUILT INFORMATION FOR THE SANITARY SEWER FACILITIES CONSTRUCTED AS A PART OF THE IMPROVEMENTS FOR THE J P MORGAN CHASE BANK AT THE SOUTHWEST CORNER OF RANCHO DRIVE AND CHARLESTON BOULEVARD, BEING A PORTION OF LOTS 9 AND 10 IN BLOCK 1 OF MCNEIL TRACT NO. 2 AS SHOWN BY MAP THEREOF IN BOOK 3 OF PLATS, PAGE 96, OFFICIAL RECORDS CLARK COUNTY, NEVADA, LYING WITHIN THE NORTHEAST QUARTER (NE 1/4) OF SECTION 5, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., CLARK COUNTY, NEVADA. THE SURVEY WAS COMPLETED ON DECEMBER 29, 2015.

THE POSITIONAL CERTAINTY OF THE AS-BUILT INFORMATION SHOWN HEREON IS WITHIN +/- 0.3' HORIZONTALLY AND VERTICALLY.

BASIS OF BEARINGS

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM, LAS VEGAS ZONE, NORTH AMERICA DATUM OF 1983. SAID MERIDIAN BEING COINCIDENT WITH 114° 58' WEST OF THE GREENWICH MERIDIAN. THE REFERENCE FRAME BEING NAD 83 (COORDS 2011) EPOCH 2010.0

LINEAR UNIT: U.S. SURVEY FOOT (SFT)

DATUM (REFERENCE FRAME): NAD 1983 (COORDS 2011) EPOCH 2010.0

SYSTEM: NEVADA COORDINATE REFERENCE SYSTEM (NCRS)

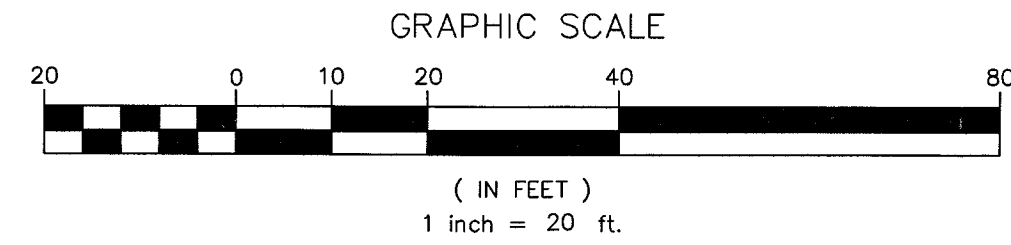
ZONE: LAS VEGAS

PROJECTION: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORIGIN): 36°15'00" N
LONGITUDE OF CENTRAL MERIDIAN: 114°56'00" W
NORTHING AT GRID ORIGIN: 2000,000.00 M (656,166.6667 SFT)
EASTING AT CENTRAL MERIDIAN: 100,000.000 M (328,083.3333 SFT)
SCALE FACTOR AT CENTRAL MERIDIAN: 1.0001 (EXACT)

BENCHMARK

CLARK COUNTY VERTICAL CONTROL - BENCHMARK NO. 7C0132SSE6
ELEVATION = 630.204 MT./2067.59 FT. (NAVD 88)

RIVET AND SQUARE ALUMINUM PLATE IN TOP OF CURB, NORTHWEST CORNER OF RANCHO DRIVE AND CHARLESTON BOULEVARD, NEAR THE PC OF CHARLESTON BOULEVARD.



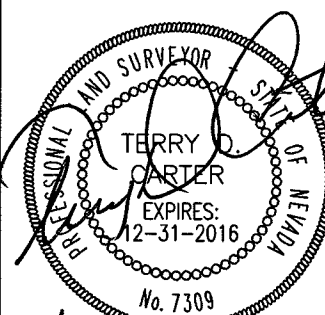
LEGEND

- 100 POINT NUMBER
- X POINT NODE LOCATION
- SEWER LATERAL
- EXISTING BUILDING
- EXISTING BACK OF CURB LINE
- EXISTING PROPERTY LINE
- EXISTING STREET CENTERLINE

SILVER STATE SURVEYING

SANITARY SEWER
FINAL LOCATION MAP

JP MORGAN CHASE
AT CHARLESTON AND RANCHO



June 5, 2016
SHEET NO.

1
1 OF 1 SHEET

PROJECT NAME: JP MORGAN CHASE @ CHARLESTON AND RANCHO
CLV PROJECT NO. 54976
CLV DRAWING NO. 107V6424
CLV BUILDING PERMIT NO. 55334

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: Terry D. Carter, PLS
Silver State Surveying

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

Date: January 13, 2016

Re: Sanitary Sewer Final Location Map
JP Morgan Chase
(Drawing No. 107V6424, L-Civil No. 54976)

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: 01/13/2016



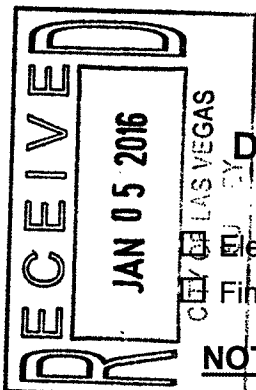
Signature

City Surveyor

Title

Public Works/Survey
Department/Division

ARR/OS:js



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: JP MORGAN CHASE BANK UNIT: PHASE:

PROJECT LOCATION: SW COR CHARLESTON & RANCHO

CLV PLAN #: 107N642A CLV PROJECT # 54976 SHEET NO. (S): 1 OF 1

OF MANHOLES 1 PUB. SEWER/STORM DRAIN LIN. FT. 0 # OF PRIVATE LATERALS 1

DEVELOPER: SAME AS CONTRACTOR PHONE: FAX:

SURVEY CO.: SILVER STATE SURVEYING PHONE: (702) 261-6033 FAX: N/A

CONTRACTOR: HAWORTH CORPORATION PHONE: 602 861-1080 FAX: 602 861-1112

CONTRACTOR'S SUPERVISOR NAME: MIKE JACKSON MOBILE: 702 325-5410

DATE OF REQUEST:

**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: 1.13.16 NOT ACCEPTABLE BY CITY SURVEYOR DATE

CLV SURVEYOR'S SIGNATURE: *Alan R. Riddle* DATE: 1.13.16

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 H54976 SS1
PROJECT NAME JP MORGAN CHASE
WORK AUTH. NO. P28000
SUBMITTED BY Silver State Surveying
PROJECT TYPE CIP ☐ Land Dev ☒ Street Rehab ☐
DATE 1/12/16
REVIEWED BY D. 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 (<u>identified as public or private</u>)	☒	☐	☐	

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