

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
Oh-Sang Kwon, P.E., Engineering Project Manager
Flood Control Section

Date: February 3, 2016

Re: Storm Drain 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: 02/03/2016

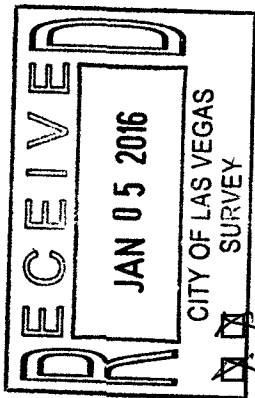


Signature

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) 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: JP MORGAN CHASE BANK UNIT: _____ PHASE: _____
PROJECT LOCATION: SW COR CHARLESTON & RANCHO
CLV PLAN #: 102V642A CLV PROJECT # 54976 SHEET NO. (S): 1 OF 1
OF MANHOLES 1 PUB. SEWER/STORM DRAIN LIN. FT. 90 # OF PRIVATE LATERALS N/A

DEVELOPER: SAFE AS CONTRACTOR PHONE: _____ FAX: _____
SURVEY CO.: SILVER STATE SURVEYING PHONE: 702 941-6033 FAX: _____
CONTRACTOR: HAWORTH CORPORATION PHONE: (602) 861-1080 FAX: (602) 861-1112
CONTRACTOR'S SUPERVISOR NAME: MIKE JACKSON MOBILE: (702) 325-5410
DATE OF REQUEST: _____

THIS SEWER HAS BEEN SURVEYED BY NEVADA LICENSED LAND SURVEYOR:

Company Name SILVER STATE SURVEYING Surveyor Name TERRY D. CARTER
License # PLS 7309 License exp. Date: DEC 31, 2016

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: 2.3.16 NOT ACCEPTABLE BY CITY SURVEYOR DATE _____

CLV SURVEYOR'S SIGNATURE: [Signature] DATE: 2.3.16

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: _____
(PLEASE PRINT)

SIGNATURE: _____ DATE: _____

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
STORM DRAIN
FINAL LOCATION MAP

JOB NUMBER H54976 SD2
PROJECT NAME JP Morgan Chase
WORK AUTH. NO. P28000
SUBMITTED BY Silver State Surveying
PROJECT TYPE CIP ☐ Land Dev ☒ Street Rehab ☐
DATE 2/3/16
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 ("Storm Drain 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)	☒	☐	☐	

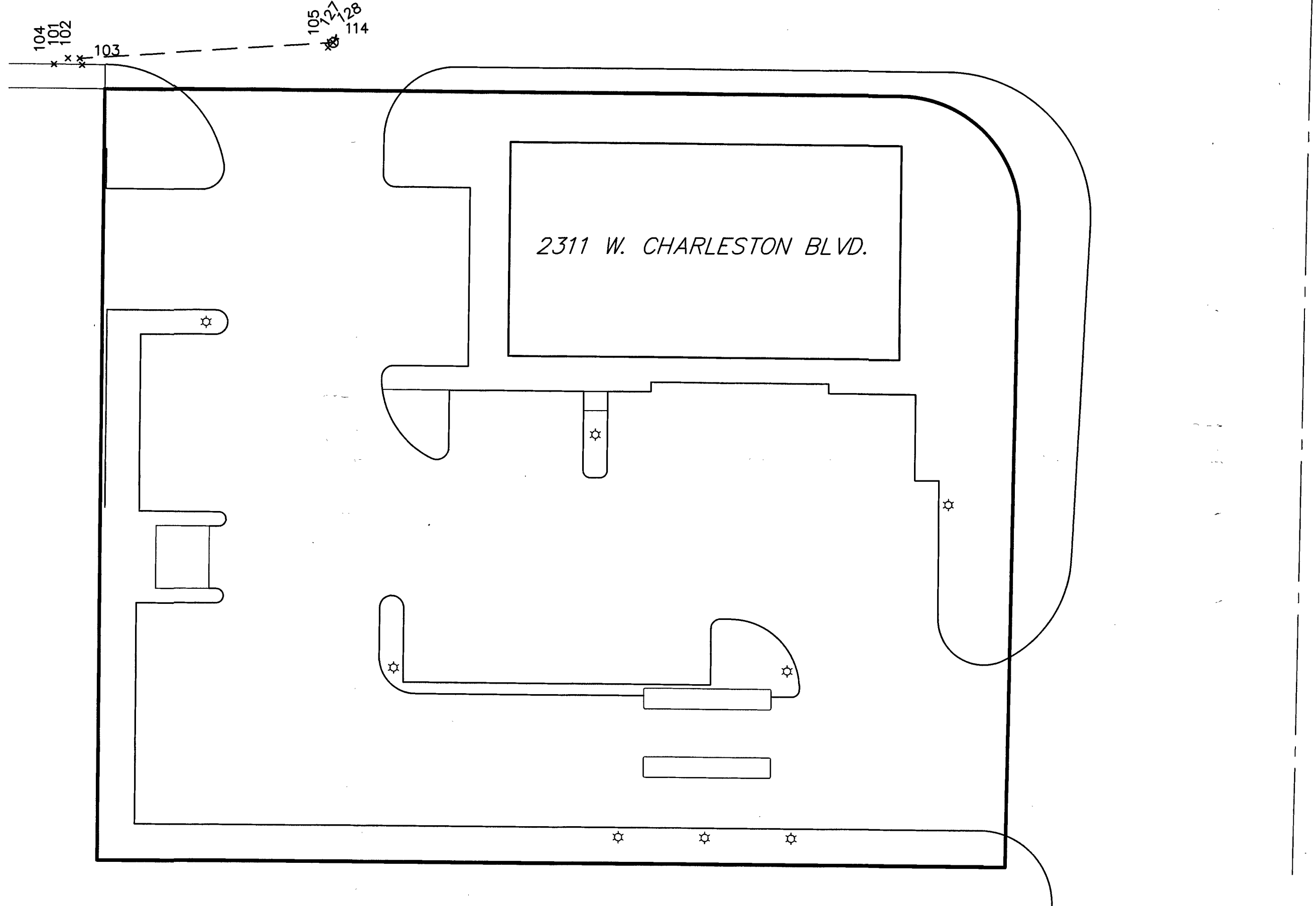
REVIEW CHECKLIST – STORM DRAIN FINAL LOCATION MAP

REVIEW ITEM	OK	SEE R/L	N/A	COMMENTS
Storm Drain Improvements Data				
*NOTE As of December 1, 2015 manhole cover locations are no longer required.				
Manhole Barrel/Base: (measured horizontally at centerline of barrel/base structure, vertical location does not apply)	☐	☐	☐	
Drop Inlets (measured horizontally at back of curb at each outer extent of box, vertically at top of curb)	☒	☐	☐	
Vaults and Junction Structures (measured horizontally at all outer extents of structure, vertically at top of structure)	☐	☐	☒	
Pipes and RCB's: locate at all connections to other pipes and structures, all horizontal and vertical deflections, points of termination (stubs), point at which pipe/RCB exits the public right-of-way or easement (measured horizontally at centerline of pipe/RCB, vertically at top of pipe/RCB)	☒	☐	☐	
*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

STORM DRAIN FINAL LOCATION MAP
JP MORGAN CHASE @ CHARLESTON AND RANCHO

CHARLESTON BOULEVARD
(PUBLIC R/W)



STORM DRAIN POINT TABLE

PT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
101	623019.1520	266971.6210	2069.42	CL TOP OF GRATE
102	623019.1310	266974.0840	2065.90	INVERT OUT 18" PIPE
103	623017.7770	266974.5750	2069.94	TBC DROP INLET EAST
104	623017.9300	266968.7280	2070.07	TBC DROP INLET WEST
105	623021.3410	267025.6490	2068.98	CL STORM DRAIN MANHOLE COVER
114	623022.3684	267026.7556	2063.80	CL STORM DRAIN MANHOLE BASE
127	623022.3036	267025.7013	2063.91	STORM DRAIN INVERT IN WLY
128	623023.3130	267027.1932	2063.68	STORM DRAIN INVERT OUT N'LY

SURVEYOR'S NOTE

THE PURPOSE OF THIS SURVEY IS TO PROVIDE AS-BUILT INFORMATION FOR THE STORM DRAIN 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)

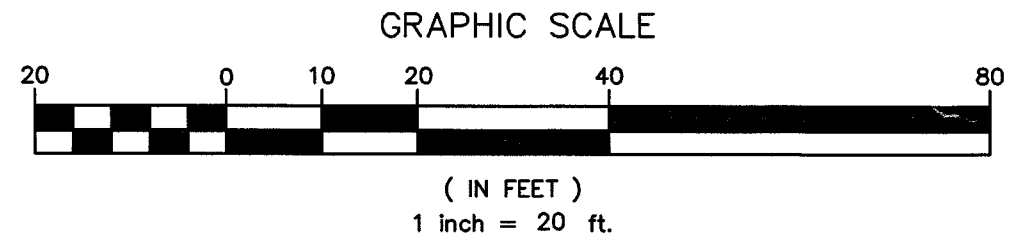
ZONE: LAS VEGAS

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
- STORM DRAIN LATERAL
- EXISTING BUILDING
- EXISTING BACK OF CURB LINE
- EXISTING PROPERTY LINE
- EXISTING STREET CENTERLINE

NO	1	REVISION	BY	DATE	CHECK
SILVER STATE SURVEYING					
1825 AVOCADO COURT HENDERSON, NEVADA 89014 (702) 261-6033					
DRAWN BY: TDC CHECKED BY: TDC PROJECT NO. 2015030					
DATED: DECEMBER 29, 2015 SCALE 1" = 20'					
STORM DRAIN FINAL LOCATION MAP					
JP MORGAN CHASE AT CHARLESTON AND RANCHO					
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