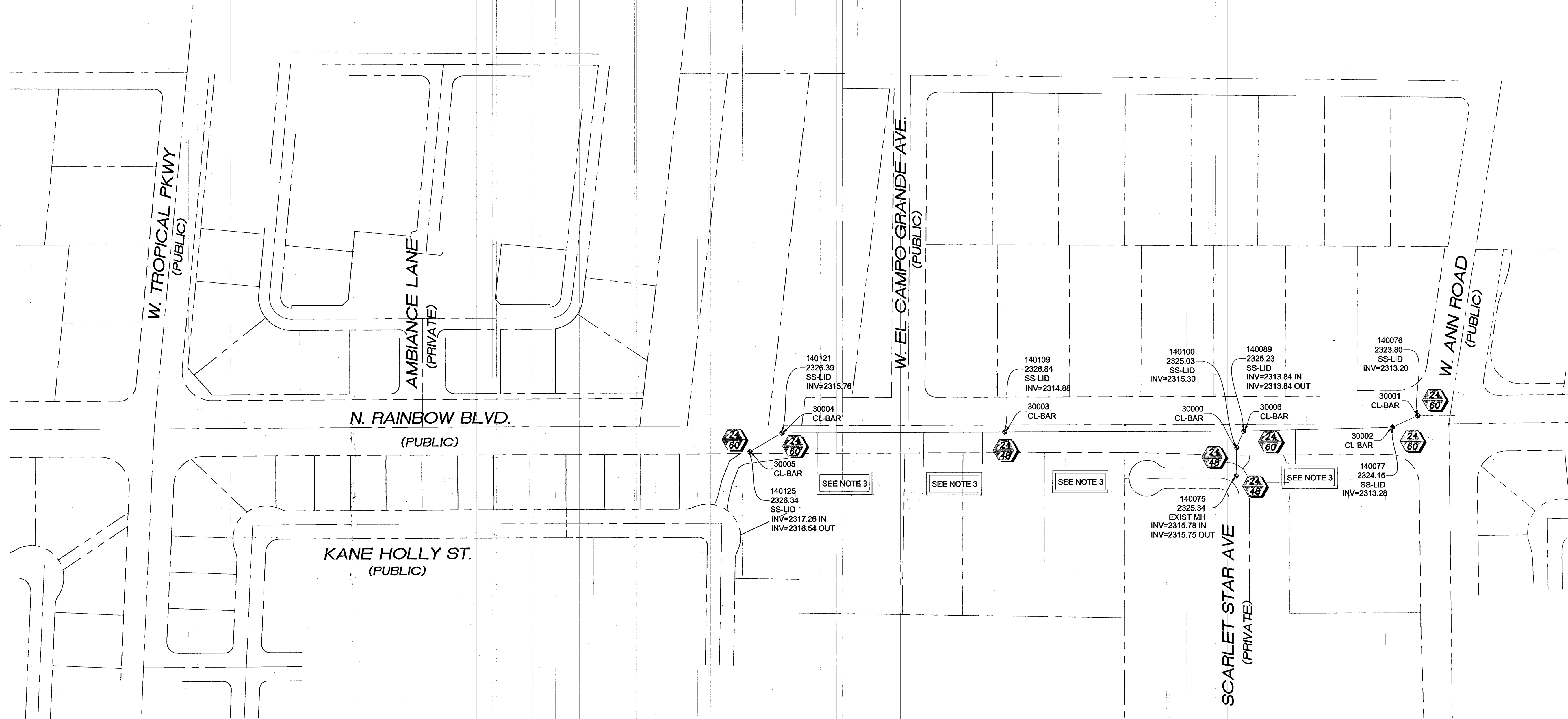




LEGEND

--- CENTERLINE
--- RIGHT-OF-WAY LINE
--- LOT/PARCEL LINES SHOWN FOR REFERENCE ONLY
--- PREVIOUSLY EXISTING SANITARY SEWER
--- NEW SANITARY SEWER LINE
--- NEW SANITARY SEWER LINE PER PLAN (NOTE 3)

SS-LID CL-BAR CENTER OF SANITARY SEWER MANHOLE LID CENTERLINE BARREL ± (SEE NOTE 1)

INDICATES SIZE OF SANITARY SEWER MANHOLE OVER SIZE OF OFFSET BARREL (RIMS ARE 24" WITHIN 36" OUTER RIM)

NOTES:
AT THE TIME OF THIS SURVEY ALL CONSTRUCTION HAD BEEN COMPLETED AND BACKFILLED. NO ACCESS TO TOP OF PIPES OR UNDERGROUND STRUCTURES WERE AVAILABLE AT THE TIME THE SURVEY WAS CONDUCTED.

BASIS OF BEARING:
GRID NORTH AS DEFINED BY THE NEVADA COORDINATE SYSTEM OF 1983 (NCS83), EAST ZONE (2701), DETERMINED BY CLARK COUNTY GIS CONTROL UTILIZING THE TRIMBLE VRS NETWORK.

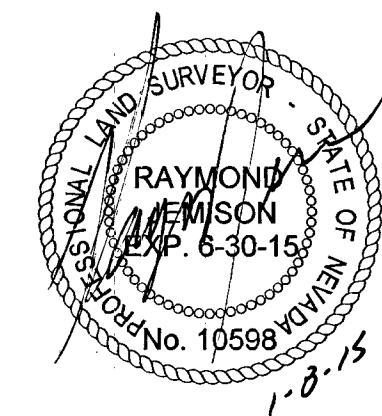
BENCHMARK:
CITY OF LAS VEGAS BM 0LV90 27SEE6
RIVET AND ROUND PLATE IN TOP OF CURB, WEST SIDE OF RAINBOW BLVD. ±200' NORTH OF EL CAMPO GRANDE AVE.
NAVD 83 DATUM - 2326.07 (FT) 708.986 (M)
ADJUSTMENT - 2008 CLV

NOTES:
1. ALL CENTERLINE BARREL LOCATIONS ARE APPROXIMATE AND WERE DERIVED FROM VISUAL INSPECTION THROUGH THE MANHOLE RIM. ACCESS TO ACTUAL CENTERLINE OF BARREL WAS NOT OBTAINED DUE TO CONFINED SPACE.
2. LOCATIONS SHOWN ARE NORTH AMERICAN DATUM 1983 (NAD83), NEVADA STATE PLANE COORDINATE SYSTEM, 2701 EAST ZONE, NATIONAL ADJUSTMENT OF 2011, EPOCH 2010.0.
3. PIPES LOCATIONS SHOWN IN BLUE ARE PER ORIGINAL PLAN LOCATION. TRENCHES WERE BACKFILLED BEFORE VISUAL CONFIRMATION.

GRAPHIC SCALE
100 0 50 100
(IN FEET)
1 inch = 100 ft.

JSS
JEMISON SURVEYING & SERVICES
NORTH
SCALE = 1" = 100'

SURVEYOR'S CERTIFICATE
I, RAYMOND C. JEMISON, A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF NEVADA, CERTIFY THAT,
1. THE POSITIONAL CERTAINTIES OF THE AS-BUILT DATA SHOWN ARE WITHIN ±0.10(M) OR ±0.3(USFT) HORIZONTALLY AND VERTICALLY.
2. THIS AS-BUILT SURVEY WAS COMPLETED UNDER MY DIRECT SUPERVISION ON AUGUST 15, 2014.
RAYMOND C. JEMISON
NEVADA P.L.S. 10598



ANN ROAD CHANNEL
WEST - RAINBOW
BOULEVARD
H# 36801
CLV# 731-88

JOB TITLE
ANN ROAD CHANNEL WEST
SANITARY SEWER
FINAL LOCATION MAP

DATE
01-08-2014

JOB NO.
253-140205

SHEET 1 OF 1

SCALE (H): 1" = 100'
SCALE (V):
DRAWN BY: RPS
CHECKED BY:
SEC: T S R E

JEMISON SURVEYING & SERVICES
2690 CRIMSON CANYON DRIVE
LAS VEGAS, NEVADA 89128
702-360-4638 F 702-360-4639

JSS
JEMISON SURVEYING & SERVICES

NEVADA
LAS VEGAS

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: Peter Dunne, Construction
Project Representative

From: Alan R. Riecki, PLS
City Surveyor

C: Raymond Jemison, PLS
Jemison Surveying & Services

Tim Parks, P.E., Engineering Project Manager
Sanitary Sewer Section, Public Works

Date: January 12, 2015

Re: Sanitary Sewer Final Location Map
Ann Road Channel West
(Drawing No. 731-88, CIP # 36801)

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: 1/12/15



Signature

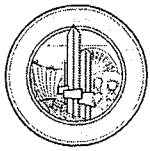
City Surveyor

Title

Public Works/Survey

Department/Division

ARR/OS:sb



City of Las Vegas
Department of Public Works
Survey Section

REVIEW CHECKLIST
SANITARY SEWER
FINAL LOCATION MAP

JOB NUMBER H36801-SS2
 PROJECT NAME ANN RD. CHANNEL WEST
 WORK AUTH. NO. P28600
 SUBMITTED BY PETER DUANE
 PROJECT TYPE CIP ☒ Land Dev ☐ Street Rehab ☐
 DATE 1/12/15
 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 (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				
Manhole Lids: (measured horizontally at centerline of lid, vertically at rim; specify diameter of lid)	☒	☐	☐	
*NOTE In the case of a two-piece lid system locate outer lid only (specify diameter of outer lid).				
Manhole Barrel: (measured horizontally at centerline of structure barrel, 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)	☐	☐	☒	<i>WAIVED LATERAL LOCATIONS</i>
*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	☐	☐	☐	
*NOTE Coordinates provided must be accurate to within ^{±0.3} ±0.5 feet (6 inches) horizontally and vertically.				
Coordinate accuracy QA/QC (when available)	☐	☐	☒	

ADDITIONAL COMMENTS

Tim Parks

From: Tim Parks
Sent: Monday, January 26, 2015 4:08 PM
To: Kristina Swallow
Subject: FW: Ann Rd Channel West - "AS-BUILTS" needed to find sewer lateral sleeve
Attachments: RE: 5705 N Rainbow Blvd; Rainbow Blvd - APN 125-27-803-004; RE: Ann Road Channel West - As-Builts? - CIP#36801

This may be an issue. The City CM rep "waived" the lateral location requirements for the map. We don't believe this was done with any authorization. They did the same thing with storm drain facilities and Oh Sang spoke to Jeremy who will be talking to Tom.

From: Keith Letus
Sent: Monday, January 26, 2015 12:06 PM
To: Tim Parks
Cc: Kristina Swallow
Subject: Ann Rd Channel West - "AS-BUILTS" needed to find sewer lateral sleeve

Tim,

5705 N Rainbow (APN 125-27-803-004) has annexed into the City (ANX-54655) to connect to sewer. They are eagerly awaiting the "As-Builts" for Ann Rd Channel West to know where the sewer lateral sleeve underneath the box culvert is located. The As-Builts sent to the Plans Library only have As-Built locations for the sewer laterals that were disconnected from the old sewer main and connected to the new sewer main. There are no As-Built information for the sewer lateral sleeves as required on SS-04, sheet 31, Detail 3, Note #1.

E-mails to the engineer are attached.

-Keith