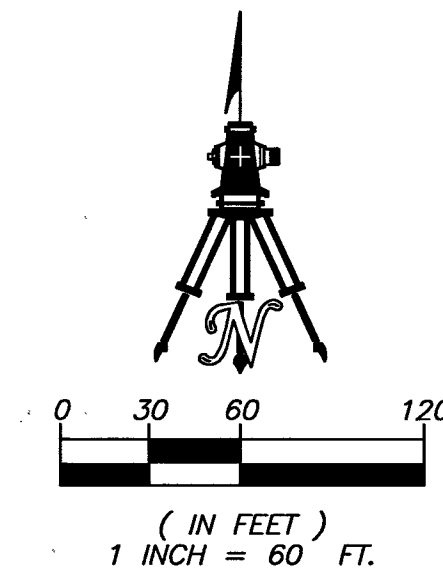


STORM DRAIN FINAL LOCATION MAP FOR ESPERANZA PHASE 1



SURVEYORS STATEMENT

- 1) SURVEY WAS COMPLETED ON APRIL 15, 2013
- 2) THE POSITIONAL CERTAINTY FOR THIS SURVEY IS 0.3' HORIZONTAL AND 0.3' VERTICAL BASED ON NAD83, CORS 96, EPOCH 2002
- 3) THE POSITIONAL CERTAINTY STATED DOES NOT TAKE INTO ACCOUNT ANY MODIFICATIONS TO THE PIPE, MANHOLES OR LATERALS COMPLETED AFTER THE DATE OF SURVEY



RYAN MARTINA
PROFESSIONAL LAND SURVEYOR
NEVADA LICENSE No. 22317

BASIS OF BEARINGS

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM, NEVADA EAST ZONE (2701) , NORTH AMERICAN DATUM OF 1983 (NAD83) CORS96, EPOCH 2002.

PROJECTION:
TRANSVERSE MERCATOR
ORIGIN LATITUDE N34°45'00.00000"
ORIGIN LONGITUDE W115°35'00.00000"
FALSE NORTHING 26,246,666.667 FEET
FALSE EASTING 656,166.667 FEET

BENCHMARK

7LV0934SW6A - BEING A RIVET AND PLATE IN TOP CURB AT SE CORNER OF DESERT MOON RD. & DESERT SUNRISE RD

NAVD88 ELEVATION (2008 CLV ADJUSTMENT)

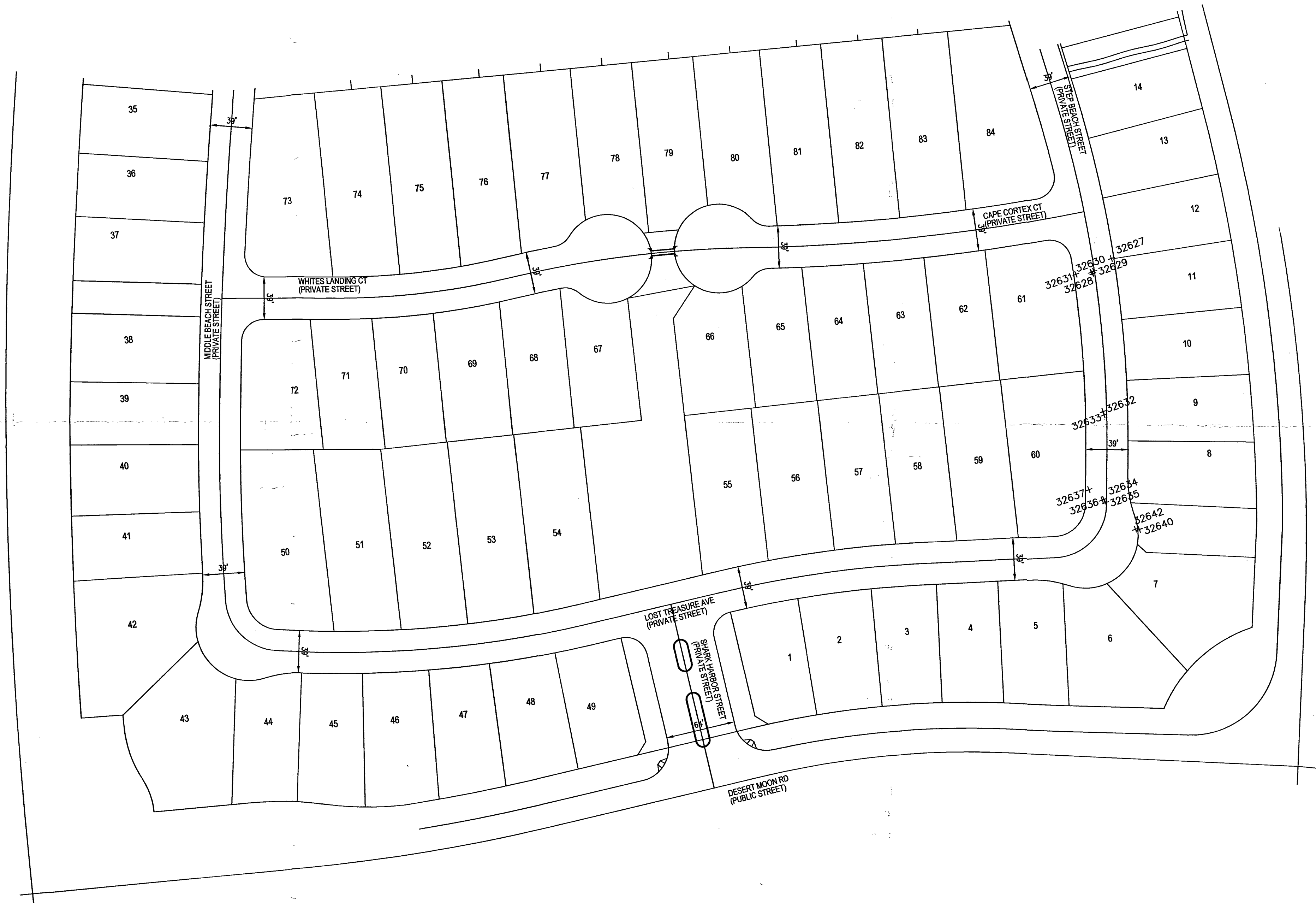
3301.47 US SURVEY FEET
1006.289 METERS

LEGEND

- CENTERLINE
- RIGHT OF WAY
- × 60576 POINT NUMBER
- ⊙ STORM DRAIN MANHOLE RIM (NOT SET TO FINAL GRADE)
- SL Y TOP OF SEWER PIPE AT "Y"
- LAT BC TOP OF SEWER PIPE LATERAL AT BACK OF CURB/RIGHT-OF-WAY
- INV INVERT ELEVATION OF STORM DRAIN PIPE

NOTES

- 1) SEE TEXT FILE "ESPERANZA-SD-SP-PH1.TXT" FOR COORDINATES



SHEET 1 OF 1

STORM DRAIN FINAL LOCATION MAP FOR ESPERANZA PHASE 1 AS SHOWN BY MAP THEREOF ON FILE IN BOOK 145, PAGE 13 OF PLATS IN THE CLARK COUNTY RECORDERS OFFICE, NEVADA, LYING WITHIN A PORTION OF THE WEST HALF (W 1/2) OF SECTION 34, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.	
	WALLACE • MORRIS SURVEYING, INC. LAND SURVEY CONSULTING 5740 SOUTH ARVILLE STREET, #206 LAS VEGAS, NEVADA 89118 PH: 702.212.3967 FX: 702.212.3963

H#46516
CLV DWG 107Y5900

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: Chris Knight, Director
Building and Safety Department

From: Alan R. Riecki, PLS
City Surveyor

C: Ryan Martina, PLS
Wallace Morris Surveying, Inc.

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

Date: June 19, 2014

Re: Storm Drain Final Location Map
Esperanza Phase 1
(Drawing No. 107Y5900, L-Civil No. 46516, FMP 47018)

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: 6/19/2014



Signature

City Surveyor
Title

Public Works/Survey
Department/Division

ARR/OS:sk

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

MAY 19 2014

DEVELOPER'S SUBMITTAL OF GPS COORDINATES

☐ Sewer

☒ Storm Drain SURVEY

☒ Electronic Comma Delineated File

☒ Final Location Map (2)

RECEIVED

MAY 03 2014

CITY OF Las Vegas
and Development

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

PROJECT NAME: ESPERANZA UNIT: PHASE: 1

PROJECT LOCATION: DESERT MOON RD & DESERT SUNRISE RD

CLV PLAN #: 107Y5900 CLV PROJECT #: 46516 SHEET NO. (S): 1

OF MANHOLES 10 PUB. SEWER/STORM DRAIN LIN. FT. +/- 301 # OF PRIVATE LATERALS 4

DEVELOPER: LENNAR COMMUNITIES NEVADA, LLC PHONE: (702)458-7700 FAX: (702)889-0801

SURVEY CO.: WALLACE MORRIS SURVEYING PHONE: (702)212-3967 FAX:

CONTRACTOR: WESTERN STATES PHONE: (702)644-1117 FAX:

CONTRACTOR'S SUPERVISOR NAME: GENE HOUSTON MOBILE: (702)644-1117

DATE OF REQUEST: 04-15-14

THIS SEWER HAS BEEN SURVEYED BY NEVADA LICENSED LAND SURVEYOR:

Company Name WALLACE MORRIS SURVEYING Surveyor Name RYAN MARTINA

License # 22317 License exp. Date: 12-31-15

CITY USE ONLY

DATE SR. INSPECTOR RECEIVED: 5/16 SR. INSPECTOR INITIALS: RS

DATE RECEIVED FROM SR. INSPECTOR AND SENT TO CITY SURVEYOR:

ACCEPTABLE BY CITY SURVEYOR DATE: 6/19/14 NOT ACCEPTABLE BY CITY SURVEYOR DATE 6/3/14

CLV SURVEYOR'S SIGNATURE: [Signature] DATE: 6-19-14

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 46576-SD2
PROJECT NAME ESPERANZA
WORK AUTH. NO. P28000
SURVEY FIRM WALLACE MARKS
PROJECT TYPE CIP ☐ Land Dev ☒ Street Rehab ☐
DATE 6/19/14
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 ("Storm Drain Final Location Map")	☐	☐	☐	
CLV project name shown	☐	☐	☐	
CLV Hansen No. shown	☐	☐	☐	
CLV Drawing No. shown	☐	☐	☐	
Survey firm'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				
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 barrel structure, vertical location does not apply)	☐	☒	☐	CENTER OF M.H. BARREL MISSING.
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)	☐	☒	☐	TYPE II MH STRUCTURE MISSING.
Pipes and RCB's: locate at all connections to other pipes and structures, points of termination (stubs), point at which pipe 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.				
Survey Information				
Survey completion date indicated	☐	☐	☐	
Statement of positional certainty (0.3' horizontally, 0.3' vertically)	☐	☐	☐	
Surveyor's seal (validated and current)	☐	☐	☐	
Basis of bearings and coordinate system indicated (only CLV approved coordinate systems are to be used, basis of bearings must agree with coordinate system used)	☒	☐	☐	
Horizontal datum, datum adjustment, and epoch date indicated (only CLV approved datums are to be used)	☐	☐	☐	
Benchmark ID, description, elevation and CLV adjustment indicated	☐	☐	☐	
*NOTE Only benchmarks and benchmark elevations included in the most recent CLV Vertical Control Network adjustment are to be used, this may require using a different benchmark or benchmark elevation than shown on the improvement plans.				
Survey accuracy QA/QC (when available)	☒	☐	☐	

ADDITIONAL COMMENTS