

PROPOSED PARKING LOT FOR CAPTIVES FREE CHRISTIAN CENTER

1340 LAWRY AVENUE, LAS VEGAS, NV 89106, LAS VEGAS HEIGHT TRACT UNIT #4, PLAT BOOK 1 PAGE 77 LOT 65E,
 APN # 139-21-610-340 AND 341

City of Las Vegas General Notes

- All construction and materials shall be in accordance with the "Uniform Standard Specifications for Public Works Construction Off-Site Improvements, Clark County area Nevada", latest issue; the "Uniform Standard Drawings for Public Works Construction, Clark County area Nevada", latest revised edition; the "Summerlin Improvement Standards" for work in the Summerlin area; and other applicable approved standards issued by the controlling agency; the Uniform Building Code; and all local city codes and ordinances applicable, except as noted on this sheet as "Deviations from Standards".
- The existence and location of any overhead or underground utility lines, pipes, or structures shown on these plans are obtained by a research of the available records. Existing utilities as shown from QLV Plans Library are approximate and for record purposes. Existing utilities are located on plans only for the convenience of the Contractor. Existing utility service laterals may not be shown on the plans. The Contractor shall, at his own expense, locate all underground and overhead utilities which may affect his operation during construction and shall take all necessary precautions to avoid damage to same. The Contractor shall use extreme caution when working near overhead utilities so as to safely protect all personnel and equipment, and shall be responsible for all cost and liability in connection therewith.
- The Contractor shall take all precautionary measures necessary to protect existing utility lines, structures and street improvements which are to remain in place, from damage, and all such improvements or structures damaged by the Contractor's operations shall be repaired or replaced satisfactory to the City Engineer and owning utility company at the expense of the Contractor.
- All construction shall be as shown on these plans, any revisions shall have the prior written approval of the City Engineer.
- Type V cement shall be used in all off-site concrete work. Concrete to be 3000 P.S.I. minimum @ 28 days. Mix designs to be approved by the City, prior to the use on the project.
- Permits are required for any work in the public Right-of-way. The Contractor shall secure all permits and inspections required for this construction.
- Expansion joints required, maximum every 300' in extruded-type curb.
- AC pavement to be one-half inch (1/2") above lip of all gutters after compaction, except at sidewalk ramps and cross gutters. Curb and gutter found to be unacceptable to the City of Las Vegas shall be removed and replaced per standard drawing 216. 10. Sidewalk ramps shall be constructed in each quadrant of an intersection per standard drawing 235. Exact location of ramps may be adjusted in the field by a City Inspector.
- Contractor shall provide all necessary horizontal and vertical transitions between new construction and existing surfaces to provide for proper drainage and ingress and egress to new construction. The extent of the transitions to be as shown on plans.
- All grading work shall conform to the soils report as prepared by the () company, report #, date, approved by the City Engineer, and as shown on these plans.
- Exact location of all sawcut lines may be adjusted or determined in the field by a City of Las Vegas Engineer if location on plans is not clearly shown, or existing pavement condition requires relocations.
- The Contractor shall take all precautions necessary to protect existing permanent survey monuments. Any monuments disturbed shall be replaced and adjusted per available records in accordance with N.R.S. Statute No. 625.390 & City of Las Vegas Title 18, Appendix D.
- Utility company meter boxes, manhole lids, valve covers, etc., shall be located out of driveways, driveway aprons, flowlines, and cross gutters unless written approval is granted by the utility company and the City Engineer. Wall Notes:
- All walls, new or existing, are only shown on civil plans for the purpose of reviewing grading relationships; flood control and sight distance at intersections. New walls require a separate permit and inspection by the Building Department.
- Asphalt mix design must be submitted and approved by the City Engineer prior to the placement of Asphalt within City Right of Way.
- Contractor shall adjust all new and existing inlets, valve boxes, manhole rims, and sewer clean outs, etc. to finish grade as applicable whether or not they are shown on the plans.
- Materials, handling and placement of Portland Cement Concrete shall be in accordance with applicable sections of NDOT or the Clark County Area Specifications (as applicable) and the plans and details shown hereon.
- When installing underground facilities that require underground locating devices such as marker balls, locating ribbon, etc, the contractor shall provide written documentation to Odfite Inspection and Testing certifying that all devices have been placed and verified to be in good working condition prior to the construction of any road base.
- Sanitary sewer and storm drain final location map(s) shall be provided to the city and approved prior to acceptance of inspection. The map(s) shall include the horizontal and vertical (invert) location of public sewer manholes, storm drain manholes and transition structures, storm drain laterals at the connection to the storm drain main and at the connection to a drop inlet, the connection of sewer service laterals to the sewer main and where the sewer service laterals exit the public right-of-way and storm drain main alignment, including deflection points. The location shall be described by coordinates which shall be based on the official horizontal and vertical control networks of the City of Las Vegas. Final location maps must be sealed and certified by a Nevada professional land surveyor to have positional certainties of ± 0.09 meters (± 0.3 feet) horizontally and vertically. A separate electronic comma delimited file for the sanitary sewer and storm drain coordinates shall also accompany the sanitary sewer and storm drain final location map(s).
- Sanitary sewer and storm drain facilities shown on these plans shall be used to meet the requirements of NRS 455 and shall show at a minimum the horizontal and vertical (invert) location of public sewer manholes, storm drain manholes, storm drain laterals at the connection to the storm drain main and at the connection to a drop inlet, and the connection of sewer service laterals to the sewer main and where the sewer service laterals exit the public right-of-way. Any deviations from the information shown shall be noted and submitted as a revision to the plans and approved prior to acceptance of facility video inspection.
- CCTV video inspection is required for all sewer and storm drains. The CCTV video inspections need to be performed per the Design and Construction Standards for Wastewater Collection Systems latest edition. 23. A separate Boring Permit is required for all boring activities.

REVISED 02/03/15

General Notes for Hydrants and Access

- All work shall be done in strict accordance with the Las Vegas Fire and Rescue adopted Fire Code Ordinance # 6325 for Hydrant Specifications and Hydrant Installation Specifications.
- Only fire hydrants that are on the Las Vegas Valley Water District's - Approved Products List are allowed to be installed.
- A permit is required from Las Vegas Fire and Rescue for the installation of on-site water lines and fire hydrants. The permit and contractor's material test certificate for underground piping form shall be obtained from the Fire Protection Engineer before commencement of work. [FC § 105.7.12]
- On any residential or commercial installations, fire hydrants shall be installed and fire apparatus access roads shall be maintained before commencement of any combustible construction. All fire hydrants shall be in good working order and shall be capable of delivering the required fire flow. [FC § 3310, § 3312]
- To identify the fire hydrant locations, the contractor shall place a blue reflective marker at the center line of the street adjacent to the fire hydrants. [FC § 507.5.7.3]
- All underground inspections, pressure and flush verifications of all fire hydrants and fire lines, shall be conducted before covering the lines. Center loading is acceptable for the hydro tests with prior Fire Prevention approval. [FC § 106.3]
- All on-site underground water mains and materials shall be U.L. listed, A.W.W.A approved and shall be rated for the appropriate working pressure. [FC § 507.2.1, NFPA 24]
- Painting of curbs, fire hydrants, pads, protection of fire hydrants from physical damage, and all other work necessary per plans shall be completed before approval by Las Vegas Fire and Rescue, Fire Prevention division.
- Private hydrants shall be painted RED. [FC § 507.5.7.1]
- Prior to the final occupancy, a fire flow test shall be witnessed by Las Vegas Fire and Rescue, Fire Prevention Division to verify availability of the required fire flow. [FC § 507]
- Fire hydrant spacing shall be as follows: [FC § C102] Residential - 500 ft unsprinklered; 600 ft sprinklered. Commercial - 300 ft unsprinklered; 400 ft sprinklered.
- Where the water mains are extended along streets or new streets are installed where fire hydrants are not needed for protection of the structures, fire hydrants shall be installed at a maximum of 1000 ft spacing, to provide for transportation hazards. Where streets are provided with median dividers or have four (4) or more traffic lanes and have a traffic count of more than 30,000 per day, hydrants are required on each side of the street spaced at 500 ft on an alternating basis. [FC § C102.8]
- No fire hydrants shall be located within the radius of a cul-de-sac or within 20 ft of the perimeter of the radius of the cul-de-sac.
- No fire hydrants shall be located within 6 ft of any curb return, driveway, power pole, streetlight or any other obstruction. [FC § C102.12]
- A maximum distance from a fire hydrant to a one-to-two family dwelling shall not exceed 300 ft, as measured by an approved route. [FC § C102.4]
- A maximum distance from a fire hydrant to a Fire Department Connection (FDC) shall not exceed 100 ft, as measured by an approved route. [FC § C102.7]
- The maximum distance from a hydrant to the end of a dead-end street shall not exceed 200 ft. [FC § C102.6]
- Two (2) sources of supply are required whenever there is 4 or more fire hydrants/sprinkler lead-ins are installed on a single system. Sectional control valves shall be installed so that no more than 2 fire hydrants can be out of service due to a break in a water main. [FC § C104]
- All fire apparatus access roads shall be paved to provide all-weather driving capabilities, and shall be designed and maintained to support the imposed loads of the fire apparatus. [FC § 503.2.3]
- The gradient for the fire apparatus access roads shall not exceed 12%. Angles of approach and angles of departure shall not exceed 6% for 25 ft prior to or after the grade change. Adjacent to the structures gradient shall not exceed 6%. [FC § 503.2.7, § 503.2.8]
- The turning radius of the fire apparatus access roads shall be no less than 52 ft outside and 28 ft inside turning radius. [FC § 503.2.4]
- Vertical clearance of all fire apparatus access roads shall not be less than 13ft 6 ins. [FC § 503.2.1]
- Fire department access roads shall have a minimum unobstructed width of not less than 40 ft flow line to flow line with parallel parking permitted on both sides. Not less than 32 ft wide, flow-line to flow-line, where parking is permitted on both sides of the fire apparatus access road. Not less than 24 ft wide, flow-line to flow-line, where no parking is permitted on either side. Fire lanes through parking lots shall be not less than 24 ft. [FC § 503.2.1.1]
- A fire apparatus access road shall be required when any portion of an exterior wall of the first story is located more than 150 ft from a fire department vehicle access. This distance could be increased to 250 ft if the building is sprinklered. [FC § 503.1.1]
- Approved secondary fire apparatus access shall be provided for 100 or more dwelling units, road(s) with dead-ends or with a single point of access in excess of 600 ft. Commercial and industrial developments where buildings exceed 2 stories or 30 feet in height, or exceeding 62,000 square feet in area. [FC § 503.1.2]
- All dead-end fire apparatus roads and/or fire lanes, public or private in excess of 150 ft in length shall be provided with an approved turn around having a minimum diameter of 81 ft. [FC § 503.2.5]
- All fire apparatus access roads shall be marked by placing approved signs at the start of the designated fire lane, one sign at the end of the fire lane and with signs at intervals of 100 ft along the designated fire lanes. Signs to be placed on both sides of an access roadway if needed to prevent parking on either side. Signs to be installed no higher than 10 ft or less than 6 ft from the roadway level. The curb along or on the pavement or cement (if no curb is provided) shall be painted with a red weather resistant paint in addition to the signs. [FC § 503.3]
- Electrically controlled access gates shall be provided with an approved emergency vehicle detector/receiver system. Solid system shall be installed in accordance with the IFC § 503.6 and IFC Appendix M.

Revised 03/01/2016

City of Las Vegas Grading Notes

- In the event that any unforeseen conditions not covered by these notes are encountered during grading operations, the Owner/Engineer shall be immediately notified for direction.
- It shall be the responsibility of the Contractor to perform all necessary cuts and fills within the limits of this project and the related off-site work, so as to generate the desired subgrade, finish grades and slopes shown.
- Contractor shall take full responsibility for all excavation. Adequate shoring shall be designed and provided by the Contractor to prevent undermining of any adjacent features or facilities and/or caving of the excavation.
- The Contractor is warned that an earthwork balance was not necessarily the intent of this project. Any additional material required or leftover material following earthwork operations becomes the responsibility of the Contractor.
- The Grading Contractor is responsible to coordinate with the owner to provide for the requirements of the project Storm Water Pollution Prevention Plan (SWPPP) and associated permit.
- Contractor shall grade to the lines and elevations shown on the plans within the following horizontal and vertical tolerances and degrees of compaction, in the areas indicated:

A. Pavement Area Subgrade	0.1'+	+0.0' to -0.1'	See Soils Report
B. Engineered Fill	0.5'+	+0.1' to -0.1'	See Soils Report

 Compaction Testing will be performed by the owner or his representative.
- All cut and fill slopes shall be protected until effective erosion control has been established.
- The use of potable water without a special permit for building or construction purposes including consolidation of backfill or dust control is prohibited. The Contractor shall obtain all necessary permits for construction water.
- The Contractor shall maintain the streets, sidewalks and all other public right-of-way in a clean, safe and usable condition. All spills of soil, rock or construction debris shall be promptly removed from the publicly owned property during construction and upon completion of the project. All adjacent property, private or public shall be maintained in a clean, safe and usable condition.
- In the event that any temporary construction item is required that is not shown on these drawings, the owner agrees to provide and install such item at his own expense and at the direction of the City Engineer. Temporary construction includes ditches, berms, road signs and barricades, etc.

REVISED 04/15/10

SHEET INDEX	
DRAWING NO.	DRAWING TITLE
1	COVER AND NOTE SHEET
2	GRADING PLAN
3	MASTER UTILITY PLAN

CITY OF LAS VEGAS TRAFFIC NOTES

- All construction signing, barricading, and traffic delineation shall conform to the "Manual on Uniform Traffic Control Devices", latest edition.
- The street sign contractor shall obtain street names and block numbering from the Planning Department prior to construction.
- Before any work is started in the right-of-way, the contractor shall install all advance warning signs for the construction zone. The contractor shall install temporary stop signs at all new street encroachments into existing city streets which are wanted immediately after first grading work is accomplished, and shall maintain said signs until permanent signs are installed.
- When a designated "safe route to school" is encroached upon by a construction work zone and Public Works staff identifies a need for students to be assisted in the safe crossing through that work zone, the contractor shall be required to provide a qualified "crossing guard". The guard shall be present for the full duration of time that children are likely to be present.
- If the improvements necessitate the obliteration, temporary obstruction, temporary removal or relocation of any existing traffic pavement markings such as pavement marking shall be restored or replaced with like materials to the satisfaction of the City Traffic Engineer.
- The contractor shall be responsible for providing and installing all permanent signs shown on the plans. All new traffic signs shall be fabricated with diamond grade via class 6 reflective sheeting or approved equal. All new traffic signs, except streetname and school speed limit signs, shall have 3m series 1160 or approved equivalent anti-graffiti protective overlay film; school zone signs shall have 3m series 1150 anti-graffiti protective overlay film. Street name signs shall conform in their entirety to current city standards. All other signs shall be standard size unless otherwise specified on the plans. All sign posts shall be installed in accordance with the current city standards.
- When a proposed street light standard is located within five (5) feet of any proposed sign shown on the plans to be mounted on a signpost, the sign shall be mounted on the street light standard and the signpost shall be eliminated.
- All permanent traffic control devices called for hereon shall be in place and in final position prior to allowing any public traffic onto the portions of the road(s) being improved here under, regardless of the status of completion of paving or other off-site improvements called for by these plans.
- Street signs and stop signs shall be installed per City standard specifications for placement of street name signs.
- The contractor shall provide all necessary traffic control devices and flaggers to insure the safety of the public in or around the work area. The contractor shall have a certified ATSSA traffic control technician or IMSA work zone safety specialist set up, maintain and/or remove all traffic control devices in the City of Las Vegas right of way.
- Work in public streets, once begun, shall be expedited to completion so as to provide minimum inconvenience to adjacent property owners and to the traveling public.
- The contractor shall be responsible for notifying Citizens Area Transit (C.A.T.) if the construction interrupts or relocates a bus stop or has an adverse effect on bus service on that street to arrange for temporary relocation of stop.
- Guards shall be obtained by contacting the Metropolitan Police Department special events unit (phone # 828-3442) who will provide officers properly trained in traffic control. Fees for the use of these officers shall be set by metro and will be paid by the contractor. The contractor is responsible for all arrangements with metro.
- Any work within 300' of a signalized intersection will be night work, unless otherwise directed by the City of Las Vegas Traffic Engineer.
- The contractor shall contact the Traffic Engineering Division (transportation section) through the project's offsite inspector prior to initiating paving to receive direction for any permanent or temporary modifications to the approved drawings regarding final pavement transitions, markings and signing that are required to match adjacent roadway segments. The contractor shall provide a drawing for approval by the traffic engineering division depicting any adjustments to the final pavement markings and signage, which may include omitting, adding or modifying pavement markings and traffic control signs such that adequate transitions and lane terminations between adjacent roadway segments are constructed.

REVISED 04/15/10

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL AND STREET LIGHT SYSTEM CONDUITS IT'S COSTLY

Call before you UnderGround

1-702-455-7511
 CLARK COUNTY TRAFFIC OPERATIONS AND
 1-702-229-5300
 LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM

LEGAL DESCRIPTION

Being Lot 65 E and 65 F of Book 1 Page 77 of Plats, Located in a portion of the NE 1/4 of Section 21, Township 20 South, Range 61 East, M.D.M. APN 139-21-610-340 AND 341

BENCH MARK

BM 2LV0121C4
 Elevation = 2052.69'
 Rivet and Plate in T/C, Northeast corner of Lake Mead Blvd. and Martin Luther King Blvd.
 NAVD '88

BASIS OF BEARING

N88°39'33"W Being the centerline of Balzar Ave. between Martin Luther King Blvd and Lexington Ave. per File 97 Page 54 of Record of Survey, Located in the NE 1/4 of section 21, Township 20 South, Range 61 East, M.D.M., Clark County, Nevada Records

REFERENCE MAPS

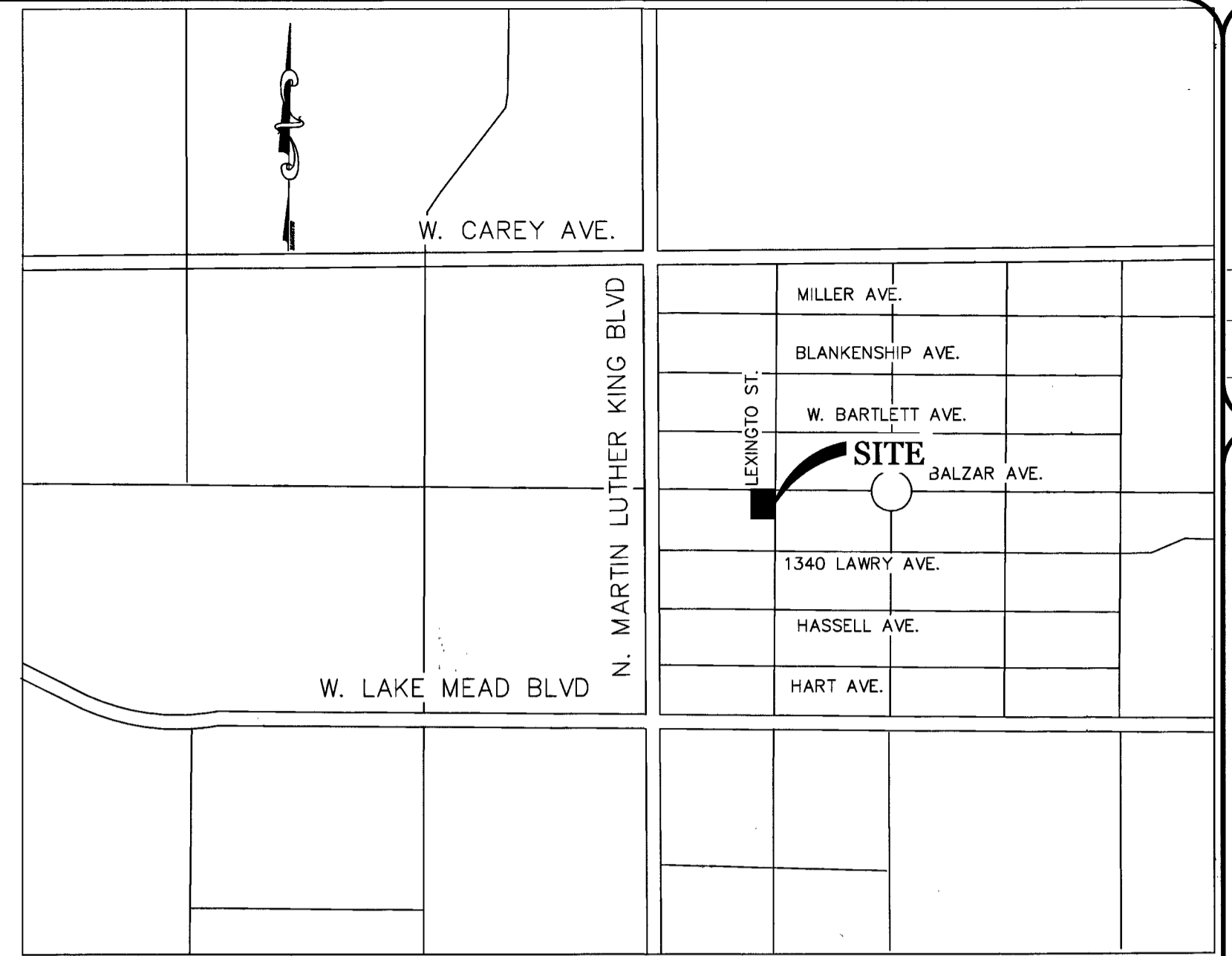
Book 97 Page 54 of Record of Survey
 Book 1 Page 77 of Plats

CONTRACTOR

EDDIE BACKHOE LLC, LIC. # 78893
 4780 W. ANN ROAD SUITE 5-342,
 LAS VEGAS, NV 89031,
 TEL: (702) 277-6530

OWNER/ DEVELOPER

CAPTIVES FREE CHRISTIAN CENTER, 2741 SABAE DRIVE,
 LAS VEGAS, NV 89032,
 TEL: (702) 277-6530



VICINITY MAP

Legend		NTS	
(52.80) tbc	EXISTING SPOT ELEVATION	⊗	EXISTING STREET LIGHT
52.80 TPC	PROPOSED GRADE	⊙	EXISTING SEWER MANHOLE
2.50%	SLOPE	⊖	EXISTING STORM MANHOLE
FF	FINISH FLOOR	⊕	EXISTING POWER POLE
FOG	FACE OF GUTTER	⊗	EXISTING WATER VALVE
TW	TOP OF WALK	⊖	PROPERTY LINE
DW	DRIVEWAY	⊕	EXISTING BLOCK WALL
EX	EXISTING	⊗	EXISTING FIRE HYDRANT
G.B.	GRADE BRAKE	⊖	EXISTING ELECTRIC BOX
R/W	RIGHT OF WAY	⊕	CENTER LINE
		⊗	EXISTING FENCE
		⊖	EXISTING EDGE OF PAVEMENT
		⊕	FLOW LINE
		⊗	EXISTING CONTOUR
		⊖	TOP OF CURB
		⊕	BACK OF WALK
		⊗	FINISHED GRADE

APPROVALS

<i>Chris Knight</i>	4-25-17
CHRIS KNIGHT, DIRECTOR, BUILDING AND SAFETY	DATE
THIS PLAN MEETS THE APPLICABLE STANDARDS OF THE PLANNING AND DEVELOPMENT DEPARTMENT	
<i>R. G. ...</i>	1/4/16
LAS VEGAS FIRE & RESCUE	DATE
N/A	DATE
SOUTHWEST GAS CORPORATION	DATE
N/A	DATE
COX COMMUNICATIONS, LAS VEGAS, INC.	DATE
N/A	DATE
CenturyLink	DATE

APPROVED FOR CONSTRUCTION

Allen Pavelka 4-25-17
 ALLEN PAVELKA, PE #9029, CITY ENGINEER DATE

Y. D. ... 12/5/16
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICE MANAGER DATE

Avoid cutting underground utility lines. It's costly
 Call before you Dig
 1-800-227-2600
 UNDERGROUND SERVICE (USA)

Avoid overhead power line contact
 Call before you OVERHEAD
 1-702-593-6111
 NEVADA POWER AUTHORITY ENVIRONMENTAL SAFETY SERVICES DEPARTMENT

CAPTIVESFREE CHRISTIAN CENTER
 2741 SABAE DRIVE
 LAS VEGAS, NV 89030,
 TEL: (702) 277-6530

PROPOSED PARKING LOT FOR CAPTIVES FREE CHRISTIAN CENTER
 COVER AND NOTE SHEET
 CITY OF LAS VEGAS, NEVADA

APR 25 2017
 LAS VEGAS VALLEY WATER DISTRICT ENGINEERING INC.
 ENGINEERING INC.

QUALITY CONTROL BY:	SCALE:
DESIGNED BY:	PROJECT NO.:
CHECKED BY:	

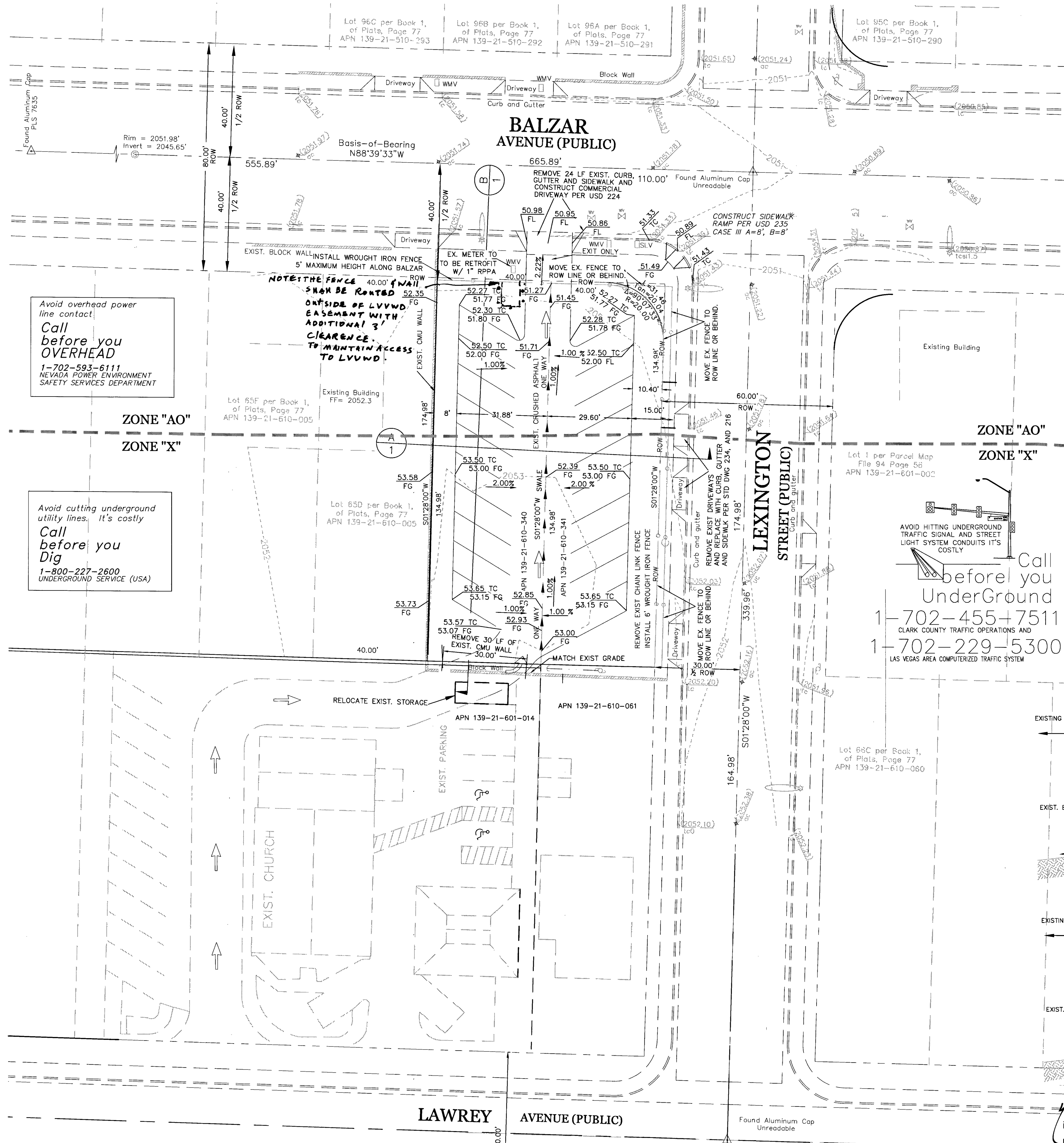
APPROVED FOR CONSTRUCTION
 KHOSROW ALIGHCHI
 CIVIL
 EXP. 12-31-2016
 DATE: 04-25-2016

SHEET	1
1 OF 3	
DRAWING NO.	107V 065E2

PROJ# 124389 AGR# 115790 QS:036-21-NE H # 62699

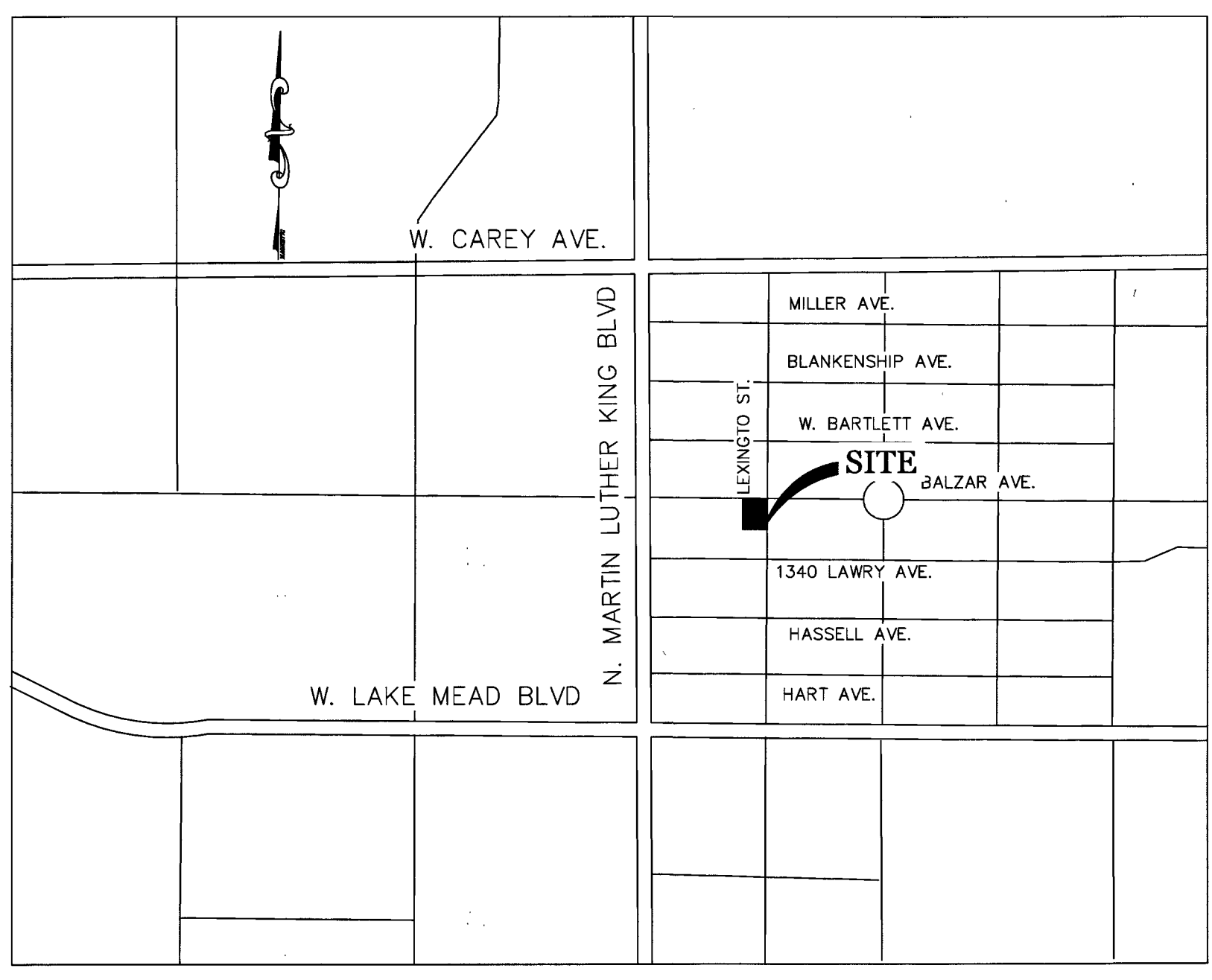
PROPOSED PARKING LOT FOR CAPTIVES FREE CHRISTIAN CENTER

1340 LAWRY AVENUE, LAS VEGAS, NV 89106, LAS VEGAS HEIGHT TRACT UNIT #4, PLAT BOOK 1 PAGE 77 LOT 65E, APN # 139-21-610-340 AND 341



LEGEND

- △ Fnd Alum Cap as Shown
- WMV Water meter vault
- SLV Streetlight Vault
- ☆ Light Standard
- ⊙ Sewer Manhole
- ⊗ Water Valve
- Existing Building
- Centerline
- Topo Boundary
- Adjacent Parcels
- Right of Way
- Block Wall

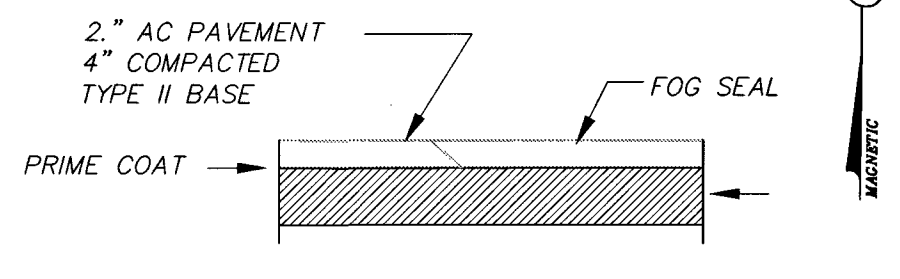
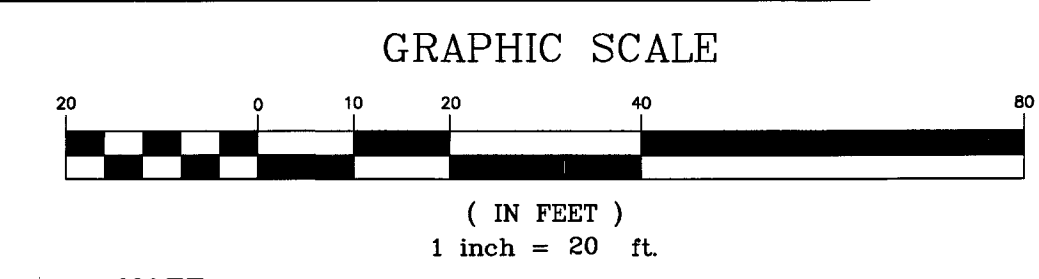


VICINITY MAP

N.T.S.

FEMA FLOOD ZONE DESIGNATION

THE PROJECT SITE IS PARTIALLY LOCATED WITHIN A FEMA DESIGNATED ZONE "X" (SHADED) AND A ZONE "AO". ZONE "X" (SHADED) IS AREAS OF 0.2% ANNUAL CHANCE FLOOD AND ZONE "AO" IS A SPECIAL FLOOD HAZARD AREA SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD, WITH FLOOD DEPTHS OF 1 TO 3 FEET. THE FLOOD PLAN DESIGNATION IS SHOWN ON THE FIRM PANELS 32003C2160F DATED NOVEMBER 16, 2011.



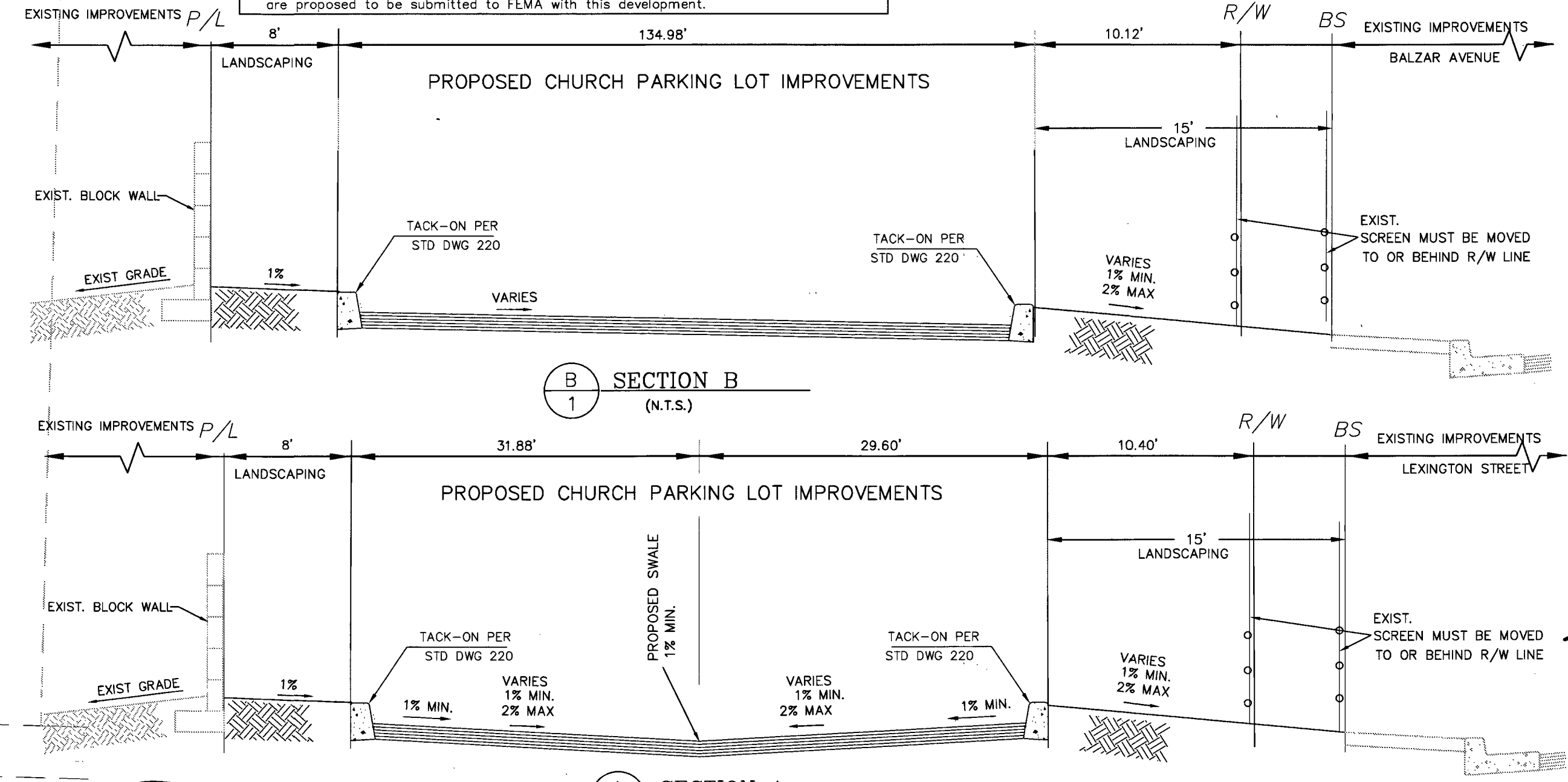
ONSITE AC PAVEMENT DETAIL

NO SCALE

NOTE: ALL UTILITIES, INVERTS, ELEVATIONS AND LOCATIONS TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION

DRAINAGE STUDY NOTES (DS 4750):

- The drainage study is for parking lot paving only. Any further improvements to this site will require a technical drainage study to address the Flood Zone "AO" impacts.
- This project provides for onsite parking lot improvements that are to be constructed with finish grades at or below existing grades.
- A portion of this site is located in a FEMA Special Flood Hazard Area, Zone AO. This project is for parking lot paving only. No mapping changes to the Flood Zone are proposed to be submitted to FEMA with this development.



SECTION A

(N.T.S.)

SECTION B

(N.T.S.)

Disshari, Don
Las Vegas Valley Water District Engineering Services Manager
Date: 12/5/16 Project No: 121189

DRAINAGE CERTIFICATION:
I HEREBY CERTIFY THAT THE GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY # DS4750 ON FILE WITH THE CITY OF LAS VEGAS FOR THIS PROJECT.

DATE: 12-16-16

CAPTIVES FREE CHRISTIAN CENTER
2741 GABER DRIVE
LAS VEGAS, NV 89100
TEL: (702) 277-6530

PROPOSED PARKING LOT FOR
CAPTIVES FREE CHRISTIAN CENTER
GRADING PLAN
CITY OF LAS VEGAS, NEVADA



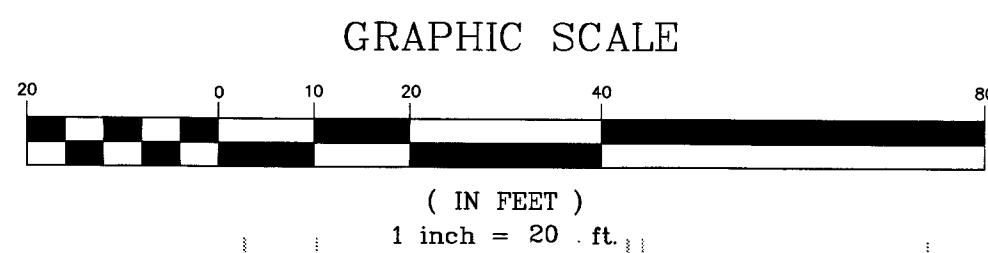
QUALITY CONTROL BY: [Signature]
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
PROJECT NO. 121189



DATE: 12-16-16
SHEET 2 OF 3
DRAWING NO. 107N6552

PROPOSED PARKING LOT FOR CAPTIVES FREE CHRISTIAN CENTER

1340 LAWRY AVENUE, LAS VEGAS, NV 89106, LAS VEGAS HEIGHT TRACT UNIT #4, PLAT BOOK 1 PAGE 77 LOT 65E,
APN # 139-21-610-340 AND 341



CITY OF LAS VEGAS FIRE DEPARTMENT NOTES

All work shall be done in strict accordance with the Las Vegas Fire and Rescue adopted Fire Code Ordinance # 6124 for Hydrant Specifications and Hydrant Installation Specifications. Authorized fire hydrants are as follows:

- Kennedy - Guardian models K81A and K81D
- Mueller - Super Centurion 250, model A-423
- Clay - Medallion model F-2546LVD
- Troy Valve - Patriot model PT8100N, Nevada Hydrant
- U.S. Pipe - Metrolow/M-03

A permit is required from Las Vegas Fire and Rescue for the installation of on-site water lines and fire hydrants. The permit and contractor material test certificate for underground piping form shall be obtained from the Fire Protection Engineer before commencement of work.

On any residential or commercial installations, fire hydrants shall be installed and fire apparatus access roads shall be maintained before commencement of any combustible construction. All fire hydrants shall be in good working order and shall be capable of delivering the required fire flow. **SNFC #6124, section 1412.**

To identify the fire hydrant locations, the contractor shall place a blue reflective marker at the center line of the street adjacent to the fire hydrants. **SNFC #6124 section 507.5.7.5.**

All underground inspections, pressure and flush verifications of all fire hydrants and fire lines, shall be conducted before covering the lines. Center loading is acceptable for the hydro tests with prior Fire Prevention approval.

All on-site underground water mains and materials shall be U.L. listed, A.N.W.A approved and shall be rated for the appropriate working pressure. **SNFC 507.2.1, NFPA 24.**

Painting of curbs, fire hydrant pads, protection of fire hydrants from physical damage, and all other work necessary per plans shall be completed before approval by Las Vegas Fire and Rescue, Fire Prevention division. **IFC 507; SNFC 507.5.7.**

Private hydrants shall be painted RED. **SNFC 507.5.7.1.**

Prior to the final occupancy, a fire flow test shall be witnessed by Las Vegas Fire and Rescue, Fire Prevention Division to verify availability of the required fire flow. **IFC 507; SNFC 507.1.**

Fire hydrant spacing shall be as follows: **SNFC C102**

- Residential - 500 ft unsprinklered; 600 ft sprinklered
- Commercial - 300 ft unsprinklered; 400 ft sprinklered

Where the water mains are extended along streets or new streets are installed where fire hydrants are not needed for protection of the structures, fire hydrants shall be installed at a maximum of 1000 ft spacing, to provide for transportation hazards. Where streets are provided with median dividers or have four (4) or more traffic lanes and have a traffic count of more than 30,000 per day, hydrants are required on each side of the street spaced at 500 ft on an alternating basis. **SNFC C102.14**

No fire hydrants shall be located within the radius of a curbside or within 20 ft of the perimeter of the radius of the curb-de-sac.

No fire hydrants shall be located within 6 ft of any return, driveway, power pole, streetlight or any other obstruction. **SNFC C102.12**

A maximum distance from a fire hydrant to a one- or two-family dwelling shall not exceed 300 ft, as measured by an approved route. **SNFC 102.4**

The maximum distance from a fire hydrant to a Fire Department Connection (FDC) shall not exceed 100 ft, as measured by an approved route. **SNFC 102.2.**

The maximum distance from a hydrant to the end of a dead-end street shall not exceed 200 ft. **SNFC 102.6**

Two (2) sources of supply are required whenever there is 4 or more fire hydrants/sprinkler lead-ins are installed on a single system. Sectional control valves shall be installed so that no more than 2 fire hydrants can be out of service due to a break in a water main.

All fire apparatus access roads shall be paved to provide all-weather driving capabilities, and shall be designed and maintained to support the imposed loads of the fire apparatus. **SNFC 503.2.3**

The gradient for the fire apparatus access roads shall not exceed 12%. Angles of approach and angles of departure shall not exceed 6% for 25 ft prior to or after the grade change. Adjacent to the structures gradient shall not exceed 6%. **SNFC 503.2.7 / 503.2.8**

The turning radius of the fire apparatus access roads shall be no less than 52 ft outside and 28 ft inside turning radius. **SNFC 503.2.4**

Vertical clearance of all fire apparatus access roads shall not be less than 8 ft 6 ins. **SNFC 503.2.1.1 / IFC 503**

Fire department access roads in residential developments (except apartment buildings) shall have a minimum unobstructed width of not less than 36 ft flow line to flow line (this width may be reduced to 24 ft if all buildings fronting the street are sprinklered) for main residential streets, with parking permitted on both sides of the street. Private drive aisles, driveways, etc. shall be allowed to be reduced to a minimum width of 24 ft flow line to flow line when serving no more than 6 residents, and when on street parking is disallowed. **SNFC 503.2.1.1 / 503.2.1.1**

All fire apparatus access roads in commercial developments and apartment complexes shall have a minimum unobstructed width of not less than 24 ft (flow line to flow line), provided no parking is allowed on either side; 32 ft (flow line to flow line), with parallel parking on one side; and 36 ft (flow line to flow line), if parallel parking is allowed on both sides. These widths may be reduced to 24 ft if sprinklered. **SNFC 503.2.1.1**

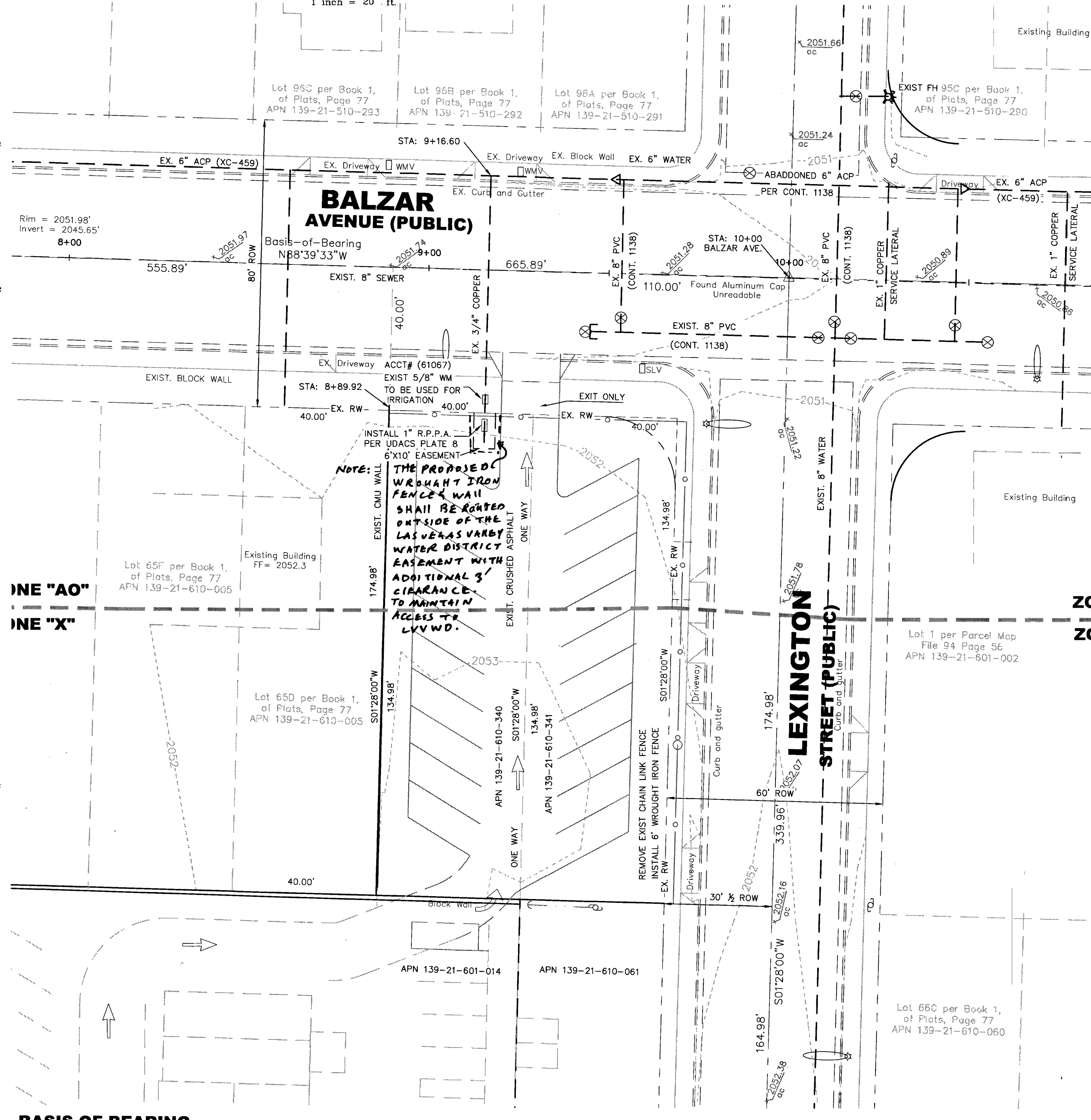
A fire apparatus access road shall be required when any portion of an exterior wall of the first story is located more than 150 ft from a fire department vehicle access. This distance could be increased to 250 ft if the building is sprinklered. **IFC 503.1.1 / SNFC 503.1.1**

Approved secondary fire apparatus access shall be provided for 100 or more dwelling units (with dead-ends or with a single point of access in excess of 600 ft, and for all commercial, industrial, and multi-family residential developments. **SNFC 503.1.2**

All dead-end fire apparatus roads and/or fire lines, public or private, in excess of 150 ft in length shall be provided with an approved turn around having a minimum diameter of 81 ft. **SNFC 503.2.5**

All fire apparatus access roads shall be marked by placing approved signs at the start of the designated fire lane, one sign at the end of the fire lane and with signs at intervals of 100 ft along the designated fire lanes. Signs to be placed on both sides of an access roadway if needed to prevent parking on either side. Signs to be cement no higher than 10 ft or less than 6 ft from the roadway level. The curb along or on the pavement or instead (if no curb is provided) shall be painted with a red weather resistant paint in addition to the signs. **SNFC 503.3**

Electrically controlled access gates shall be provided with an approved emergency vehicle detector/receiver system. Said system shall be installed in accordance with the City of Las Vegas guidelines for Automatic Emergency Vehicle Access Gates. **IFC / SNFC 503.6**



BASIS OF BEARING

N88°39'33"W Being the centerline of Balzar Ave. between Martin Luther King Blvd and Lexington Ave. per File 97 Page 54 of Record of Survey, Located in the NE 1/4 of section 21, Township 20 South, Range 61 East, M.D.M., Clark County, Nevada Records

REFERENCE MAPS

Book 97 Page 54 of Record of Survey Book 1 Page 77 of Plats

BENCH MARK

BM 2LV0121C4
Elevation = 2052.69'
Rivet and Plate in T/C, Northeast corner of Lake Mead Blvd. and Martin Luther King Blvd.
NAVD '88

CAUTION TO CONTRACTOR;

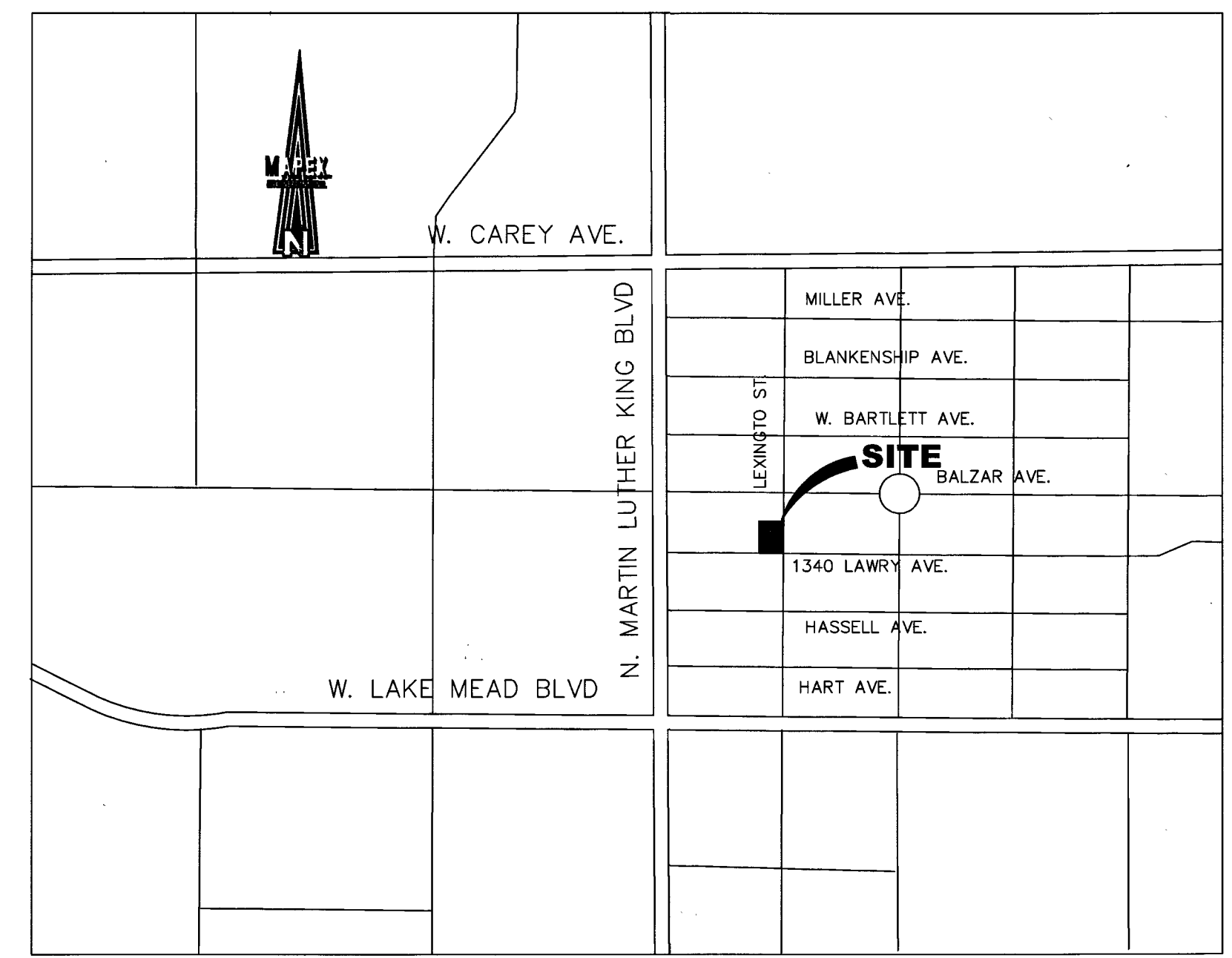
THE CONTRACTOR SHALL BE RESPONSIBLE TO INVESTIGATE AND VERIFY THE ACTUAL LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND FACILITIES AT LEAST 48 HOURS IN ADVANCE OF THE PERFORMANCE OF ANY WORK.

DISCLAIMER NOTE

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

Avoid cutting underground utility lines. It's costly
Call before you Dig
1-800-227-2600
UNDERGROUND SERVICE (USA)

line contact
Call before you OVERHEAD
1-702-593-6111
NEVADA POWER ENVIRONMENT SAFETY SERVICES DEPARTMENT



VICINITY MAP

GENERAL UTILITY NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
- SOME SECTIONS OF ON-SITE SEWER HAVE SHALLOW COVER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO AVOID DAMAGE TO THESE MAINS DURING ALL PHASES OF CONSTRUCTION.
- ALL EXISTING MANHOLES, VALVE BOXES, AND UTILITY RISERS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE ADJUSTED TO GRADE AS NECESSARY.
- REFER TO M. P. & E. DRAWINGS FOR THE EXACT LOCATION AND SIZES OF BUILDING SERVICE LATERALS.
- ON-SITE WATER MAINS SHALL BE ASP. PVC, OR APPROVED EQUAL, AND SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE UNIFORM PLUMBING CODE.
- THE QUANTITY ESTIMATES SHOWN HEREON ARE APPROXIMATE AND NO ONE IS TO RELY UPON THEM FOR PAY QUANTITIES. EACH AND EVERY CONTRACTOR SHALL HAVE A SET OF APPROVED PLANS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES AND SHALL RELY ON THEM TO A HIGHER DEGREE THAN THE CONSTRUCTION STAKES IN PROSECUTING THE WORK.
- PRIVATE AND PUBLIC UTILITIES AS SHOWN ON THE PLANS REFLECT AVAILABLE RECORD DATA AND THEIR SIZE AND LOCATION HAVE NOT BEEN VERIFIED IN THE FORM OF UNDERGROUND BORING EXPLORATION, BUT RATHER RESTRICTED TO SURFACE VISIBLE ITEMS.

WATER QUANTITIES ESTIMATE

EX. 5/8" METER (ACCT#61067) TO REMAIN AND 1 EA RETROFIT W/1" RPPA (FOR IRRIGATION)
1" R.P.P.A. PER UDACS PLATE 8

LAS VEGAS VALLEY WATER DISTRICT NOTES

- PROJECT # 124389
- NO WORK SHALL BEGUN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVWD COMMUNICATIONS SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION FOR FUTURE INSPECTIONS. NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
 - ALL WORK SHALL CONFORM TO LVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
 - ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
 - A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVWD.
 - ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVWD APPROVED SERVICE SADDLES.
 - ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
 - ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
 - ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
 - ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED, AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVWD DISTRIBUTION SYSTEM.
 - THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
 - ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
 - ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST AS LISTED ON THE LVWD PRE-APPROVED MATERIALS AND MANUFACTURER'S LISTING FOR NEW FACILITIES. LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.
 - TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
 - THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPPA) (1) 1"
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY (S) SHALL BE INSTALLED PER THE UDACS PLATE 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENTS, TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

NOTE:
EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHOULD BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATIONS. CALL BEFORE YOU DIG! (800) 227-2600

LEGAL DESCRIPTION

Being Lot 65 E and 65 F of Book 1 Page 77 of Plats, Located in a portion of the NE 1/4 of Section 21, Township 20 South, Range 61 East M.D.M. APN 139-21-610-340 AND 341

NOTE:

ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE
CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UTILITIES AND TO NOTIFY THE DESIGN ENGINEER IMMEDIATELY ON ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

OWNER/ DEVELOPER
CAPTIVES FREE CHRISTIAN CENTER, 2741 SAGALE DRIVE, LAS VEGAS, NV 89032, TEL: (702) 277-6530

CONTRACTOR
EDDIE BACKHOE LLC, LIC. # 78893 4780 W. ANN ROAD SUITE 5-342, LAS VEGAS, NV 89031, TEL: (702) 277-6530

DATE 12/5/16 PROJECT NO. 124389
LVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

DATE 10/4/16

CAPTIVES FREE CHRISTIAN CENTER
2741 SAGALE DRIVE
LAS VEGAS, NV 89030
TEL: (702) 277-6530

CHECK BY: DATE: REVISION:

PROPOSED PARKING LOT FOR CAPTIVES FREE CHRISTIAN CENTER
MASTER UTILITY PLAN
CITY OF LAS VEGAS, NEVADA

MAPLEX ENGINEERING INC.
2025 MANHATTAN BLVD
LAS VEGAS, NV 89128
TEL: (702) 262-7258

QUALITY CONTROL BY: KAZ
DESIGNED BY: KOZ
CHECKED BY: KOZ
SCALE: PROJECT NO.:

PROFESSIONAL ENGINEER
KHOSROW ALIGHCHI
EXP. 12-31-2016
CIVIL
No. 12804 NV-STATE
DATE: 06-07-2016

SHEET 3 OF 3
DRAWING NO. 1016852