

**LAS VEGAS VALLEY WATER DISTRICT (LVVWD)  
STANDARD NOTES LVVWD PROJECT # 113394**

- NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 PM THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
- ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2003 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS).
- 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 LVVWD.
- ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD 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 2.19 OF THE 2003 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 LVVWD DISTRIBUTION SYSTEM.
- THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD 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 3.13.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
- ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD PRE-APPROVED MATERIALS AND MANUFACTURER'S LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.
- TELEPHONE "CALL BEFORE YOU DIG" AT 1-800-227-2600 OR "811".

**ABBREVIATIONS:**

AC	ASPHALTIC CONCRETE PAVEMENT
AEF	AUTHORIZATION TO ENTER PROPERTY
BCR	BEGIN CURB RETURN
BSW	BACK OF SIDEWALK
CATV	UNDERGROUND CABLE TV
C&G	CURB & GUTTER
CLV	CITY OF LAS VEGAS
CONST	CONSTRUCTION
DI	DROP INLET
ECR	END CURB RETURN
EG	EXISTING GROUND
EP OR EOP	EDGE OF PAVEMENT
EX OR EXIST	EXISTING
FG	FINISHED GRADE
FL	FLOW LINE
INV	INVERT
LVVWD	LAS VEGAS VALLEY WATER DISTRICT
L	LENGTH
MH	MANHOLE
NDOT	NEVADA DEPARTMENT OF TRANSPORTATION
PB	PULL BOX
PC	POINT OF CURVATURE
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENCY
R	RADIUS
R/W OR ROW	RIGHT-OF-WAY
SD	STORM DRAIN
SMH	SEWER MANHOLE
SPECS	SPECIFICATIONS
SSP	STORM SEWER PIPE
STA	STATION
STD	STANDARD
SWG	SOUTHWEST GAS
TC	TOP OF CURB
TYP	TYPICAL
UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS
USD	UNIFORM STANDARD DRAWINGS FOR CLARK COUNTY AREA
V	VALVE

**BASIS OF BEARINGS**

CENTERLINE OF HOOVER, BEARS N 62°04'43" W, BETWEEN MAIN ST & LAS VEGAS BLVD, AS SHOWN ON THE RECORD OF SURVEY BY THE CITY OF LAS VEGAS, RECORDED IN FILE 67 OF SURVEYS, PAGE 79, CLARK COUNTY, NEVADA, RECORDS.

**BENCHMARK**

CLV BM 1LV01 345WB8: RIVET & PLATE IN TOP OF CURB, SE CORNER OF MAIN AND HOOVER, ELEV. 2028.75' (NAVD88)

**CITY OF LAS VEGAS SEWER NOTES**

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
- CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
- POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
- ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
- TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
- WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.
- ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
- THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.
- INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

**LEGEND:**

	CENTERLINE
	PROPOSED AEP LINE
	PROPOSED CURB AND GUTTER
	PROPOSED SIDEWALK
	PROPOSED LANE STRIPING
	EXISTING PROPERTY LINE
	EXISTING RIGHT-OF-WAY
	EXISTING OVERHEAD CATV
	EXISTING GAS LINE
	EXISTING POLYETHYLENE GAS PIPE
	EXISTING PVC GAS PIPE
	EXISTING STEEL GAS PIPE
	EXISTING UNDERGROUND ELECTRICAL LINE
	EXISTING OVERHEAD ELECTRICAL LINE
	EXISTING UNDERGROUND TELEPHONE LINE
	EXISTING WATER LINE
	EXISTING ASBESTOS WATER LINE
	EXISTING STORM DRAIN LINE
	EXISTING CURB AND GUTTER
	EXISTING CONTOUR W/ ELEVATION
	EXISTING FENCE
	EXISTING STRIPING
	EXISTING WALL
	EXISTING STREET LIGHT CONDUIT
	EXISTING TRAFFIC SIGNAL
	EXISTING SIGN
	EXISTING MANHOLE
	EXISTING STREETLIGHT
	EXISTING UTILITY
	EXISTING FIRE HYDRANT
	EXISTING TRAFFIC SIGN
	EXISTING UTILITY
	EXISTING LANDSCAPE
	EXISTING POST
	EXISTING UTILITY POLE
	EXISTING BUILDING
	PROPOSED 250 WATT STREET LIGHT
	PROPOSED 150 WATT STREET LIGHT
	PROPOSED 100 WATT STREET LIGHT
	PROPOSED COMMERCIAL DRIVEWAY
	PROPOSED ALLEY
	PROPOSED SIDEWALK RAMP
	PROPOSED SIGN
	PROPOSED STREET LIGHT CONDUIT
	PROPOSED TREE LIGHTING CONDUIT
	PROPOSED TRAFFIC SIGNAL CONDUIT
	PROPOSED NO. 3 1/2" PULL BOX
	PROPOSED NO. 5 PULL BOX

**DEMOLITION/REMOVAL NOTES:**

- (A) REMOVE EXISTING CURB AND GUTTER
- (B) REMOVE EXISTING SIDEWALK
- (C) SAWCUT AND MATCH EXISTING
- (D) REMOVE EXISTING PAVEMENT
- (E) REMOVE EXISTING VALLEY GUTTER
- (F) REMOVE EXISTING DRIVEWAY
- (G) REMOVE EXISTING LANDSCAPING
- (H) REMOVE EXISTING SIGN AND SALVAGE TO SERVICE YARD
- (I) REMOVE EXISTING STREET LIGHT HARDWARE (ALL COMPONENTS AND WIRE) AND DEMO EXISTING STREETLIGHT FOUNDATION TO A MINIMUM OF 24" BELOW GRADE
- (J) REMOVE EXISTING CHAIN LINK FENCE
- (K) REMOVE BLOCK WALL TO RIGHT-OF-WAY
- (L) REMOVE EXISTING TREES
- (M) REMOVE AND RELOCATE WROUGHT IRON FENCE AND GATE - SEE SHEET DT-02
- (N) REMOVE EXISTING BOLLARDS
- (O) REMOVE EXISTING TREE STUMPS
- (P) REMOVE EXISTING ALLEY

**CONSTRUCTION NOTES :**

- CONSTRUCT CONCRETE "L" TYPE CURB AND GUTTER PER USD NO. 216
- CONSTRUCT CONCRETE SIDEWALK PER USD NO. 234
- CONSTRUCT CONCRETE SIDEWALK RAMP PER USD NO. 235, CASE II, A=B=8.0'
- CONSTRUCT COMMERCIAL DRIVEWAY PER DETAIL ON SHEET DT-01.
- CONSTRUCT ALLEY PER DETAIL ON SHEET DT-01
- CONSTRUCT ON-SITE ASPHALT PAVEMENT REPLACEMENT SECTION PER DETAIL ON SHEET TY-01
- CONSTRUCT CONCRETE CROSS GUTTER PER USD NO. 228. LIMITS TO MATCH REMOVAL
- RELOCATE WROUGHT IRON FENCE - SEE SHEET DT-02
- RELOCATE WROUGHT IRON FENCE AND GATE TO LOCATION SHOWN ON PLAN. PROVIDE SHOP DRAWINGS FOR OWNER APPROVAL.
- RELOCATE MAIL BOX ON RELOCATED FENCE
- CONSTRUCT 12" CONCRETE CURB SEE SHEET DT-01 DETAIL 4
- ADJUST WATER METER BOX TO GRADE PER UDACS PLATE 1
- NOT USED
- ADJUST WATER VALVE BOX TO GRADE PER UDACS PLATE 8
- REMOVE AND REPLACE STREET LIGHT BOX PER USD NO. 323
- POLE TO BE REMOVED BY EMBARQ
- ADJUST ELECTRIC PULL BOX TO GRADE
- ADJUST ELECTRIC MANHOLE TO GRADE
- FURNISH AND INSTALL DOUBLE ARM STREET LIGHT ASSEMBLY AND FOUNDATION WITH 100W FIXTURES. ARM LENGTH AND POLE HEIGHT SHALL BE PER DETAIL "B" ON SHEET SL-03
- FURNISH AND INSTALL DOUBLE ARM STREET LIGHT ASSEMBLY AND FOUNDATION WITH 250W FIXTURES. ARM LENGTH AND POLE HEIGHT SHALL BE PER DETAIL "A" ON SHEET SL-03
- INSTALL 2-#4 AND 1-#8 THW STREET LIGHT CONDUCTORS IN UNDERGROUND 2" PVC CONDUIT
- INSTALL 1-#8 TRACER WIRE AND PULL ROPE IN UNDERGROUND 2" PVC CONDUIT
- FURNISH AND INSTALL NO. 3-1/2 PULL BOX PER USD NO. 323.
- ABANDON IN-PLACE EXISTING CONDUCTORS SHALL BE REMOVED FROM CONDUITS
- 5' STUB AND CAP CONDUIT
- INTERCEPT EXISTING PULLBOX, CONDUIT AND CONDUCTORS
- PROTECT CONDUIT IN-PLACE
- CONNECT TO PROPOSED 1ST ST. CONDUIT
- INSTALL NEW PERMANENT SIGN TO STREET LIGHT POLE PER USD NO 249A

**CONSTRUCTION NOTES :**

- INSTALL NEW PERMANENT SIGN AND METAL POST PER USD NO 249A
- INSTALL TYPE II PAVEMENT MARKING FILM (12" WIDE SOLID WHITE CROSSWALK STRIPE) PER USD NO. 254
- INSTALL TYPE II PAVEMENT MARKING FILM (24" WIDE STOP SOLID WHITE BAR) PER PLAN
- INSTALL NEW PERMANENT SIGN ON STREET LIGHT POLE
- NOT USED
- INSTALL SERVICE SADDLE PER UDACS PLATE #1D
- INSTALL 1" COPPER WATER LINE
- INSTALL 6" PVC WATER MAIN PER UDACS PLATE 6C
- INSTALL 8" PVC WATER MAIN PER UDACS PLATE 6C
- CUT IN 8"x8" CROSS AND INSTALL GATE VALVES PER UDACS PLATE 5 & 8 W/ TRANSITION COUPLINGS
- INSTALL 8"x8" TEE AND GATE VALVES PER UDACS PLATE 5 & 8
- CUT AND CAP EXISTING WATER MAIN AFTER NEW MAIN IS IN SERVICE (ABANDON IN-PLACE)
- WET TAP W/ 8"x8" MJ TAPPING SLEEVE AND 8" TAPPING VALVE PER UDACS PLATE 22
- RELOCATE EXISTING FIRE HYDRANT TO RELOCATED WATER MAIN PER UDACS PLATE 7 AND NOTE ON THIS SHEET
- ABANDON VALVE(S) PER NOTE ON THIS SHEET
- INSTALL 8" 90° BEND
- NOT USED
- FURNISH AND INSTALL NO. 5 PULL BOX PER USD NO. 328
- INSTALL 3-#10 THW CONDUCTORS IN UNDERGROUND 3" PVC CONDUIT
- TERMINATE 3" CONDUIT WITH CONDUCTORS IN A GFCI RECEPTACLE, VERTICAL MOUNTED IN A HEAVY DUTY DIE CAST, SELF CLOSING, TAMPER RESISTANT, WEATHERPROOF COVER.
- INSTALL 1-#8 TRACER WIRE AND PULL ROPE IN UNDERGROUND 3" PVC CONDUIT.
- INSTALL 2-#4 THW STREET LIGHT CONDUCTORS WITH THE ENDS TAPED OR SAFE OFF
- INSTALL 1-#8 TRACER WIRE AND PULL ROPE IN UNDERGROUND 1/2" PVC CONDUIT

**APPROVED FOR CONSTRUCTION**  
3/26/10  
LAS VEGAS VALLEY WATER DISTRICT  
DATE

AVOID OVERHEAD POWER LINE CONTACT. IT'S COSTLY

**Call before you Dig**  
Call 811

1-702-227-2929  
NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

1-800-227-2600  
1-702-455-7544

**REVISIONS**

NO.	DATE	DESCRIPTION	APPROVED

**DEPARTMENT OF PUBLIC WORKS**

**JACOBS**  
Consultants in Planning, Engineering, Construction Management, and Related Services  
7700 Brentwood Road, Suite 200  
Las Vegas, Nevada 89199  
702-888-5400 Fax 702-888-6464

**HOOPER AVENUE BEAUTIFICATION  
MAIN STREET TO  
CASINO CENTER BOULEVARD**

**KEY NOTES, LEGEND,  
AND ABBREVIATIONS**

TITLE: SHEET: 2/23/10

STEVEN A. HAGEL  
Exp. 06/30/11  
CIVIL

NT-02  
3 of 33  
DRAWING NO.  
107V5278

HANSEN NO. 29470

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