

Job No. _____
 FILE No. _____

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APPROVED	REVISIONS	NO.	DATE	DESCRIPTION

NO DATE

STATE OF NEVADA
 DWYER ENGINEERING INC.
 CIVIL ENGINEERS
 LAND SURVEYORS
 2500 SHOWER BAYONET RD., SUITE B
 LAS VEGAS, NEVADA 89126
 TEL: (702) 254-2500
 FAX: (702) 254-2508

HORIZONTAL CONTROL AND UTILITY PLAN
 A&W BRIGHT ANGEL LLC
 SE CORNER OF JULIANO ROAD AND BRIGHT ANGEL WAY
 MSM-260-04 & MSM-261-04
 CLARK COUNTY, NEVADA
 125-29-602-001

JOB No. 24751
 DATE 09/15/05
 PROJECT SCALE N/A
 HORIZ SCALE 1"=30'
 DRAWN BY JGR
 CHECKED BY DAD
 SHEET 3 of 7
 HTE 05-9127

BUREAU OF LAND MANAGEMENT (BLM)
 APN: 125-29-601-018
 NOT A PART

CHURCH CHRIST BRIGHT ANGEL
 APN: 125-29-601-019
 NOT A PART

BUREAU OF LAND MANAGEMENT (BLM)
 APN: 125-29-601-018
 NOT A PART

BASIS OF BEARINGS:
 SOUTH 00°57'28" WEST BEING THE BEARING OF RILEY STREET BETWEEN TROPICAL PARKWAY AND BRIGHT ANGEL WAY AS SHOWN FILE 79 OF PARCEL MAP FILE 79, PAGE 22 IN THE OFFICE OF THE CLARK COUNTY, NEVADA RECORDER.

BENCHMARK:
 CLARK COUNTY VERTICAL CONTROL V 2003 BENCHMARK No. BLV90 2916
 CITY OF LAS VEGAS RIVET AND ROUND ALUM PLATE IN EAST EDGE OF MAILBOX CONCRETE PAD, NORTHEAST CORNER OF W. AZURE AVE. AND EL CAPITAN WAY
 NAVD88 ELEVATION 772.450 METERS (2534.28 FEET)

LVVWD STANDARD NOTES
 LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES
 LVVWD PROJECT No. PROJECT H-99776

- 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 P.M. 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, ALLEY 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 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.

FIRE DEPARTMENT DATA

FIRE REQUIREMENT IS 1000 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL.
 BASED ON:
 TOTAL SQUARE FOOTAGE 4900 SQ. FT.
 LARGEST AREA BETWEEN 4 HOUR SEPARATION WALLS: 4900 SQ FT
 BUILDING HEIGHT: 35 FEET
 TYPE OF CONSTRUCTION: V-N
 EXPOSURE:
 SPRINKLER SYSTEM: YES
 OCCUPANCY: R
 ROOF CONSTRUCTION: WOOD

FIRE DEPARTMENT APPROVAL

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVVWD.

APPROVALS

CLARK COUNTY FIRE DEPT. 11/4/05
 APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW 1000 GPM AT 20 P.S.I. RESIDUAL.

LAS VEGAS VALLEY WATER DISTRICT (SHT. #3) DATE _____
 PROJECT H-99776

CALL BEFORE YOU DIG
 1-702-455-7511
 CLARK COUNTY 24/7 OPERATIONAL
 1-702-272-6611
 LVVWD AREA COMPUTERIZED TRAFFIC SYSTEM

Call before you Dig.
 1-800-227-2600
 UNDERGROUND SERVICE ALERT (USA)

Call before you OVERHEAD
 1-702-227-2929
 NEVADA POWER DIVISION AND SAFETY SERVICES DEPARTMENT

UTILITY NOTE

THE LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON HAS BEEN DETERMINED FROM SURFACE EVIDENCE OF THEIR EXISTENCE OR FROM INFORMATION OBTAINED FROM THE UTILITY COMPANIES. THE ENGINEER ACCEPTS NO LIABILITY FOR THE EXISTENCE OR NONEXISTENCE OF UTILITY LINES. CONTRACTORS AND OTHERS USING THIS MAP MUST CONFIRM THE LOCATION OF UNDERGROUND LINES OR STRUCTURES WITH THE UTILITY COMPANIES PRIOR TO COMMENCING ANY EXCAVATION.

NOTE:
 REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS OR PAVEMENT MARKINGS), UNDER CLARK COUNTY'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITY TO CLARK COUNTY'S SATISFACTION. ALL MATERIAL USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.

CONSTRUCTION NOTES

- CONNECT 10" PVC WATER MAIN TO EXISTING 8" PVC WATER MAIN. REMOVE CAP AND BLOW OFF PER UDACS PLATE NO. 4A. NOTE: NO. 1, AND CONNECT TO EXISTING MAIN. SEE UTILITY NOTE THIS SHEET. REPLACE AC PER USD NO. 503.
- INSTALL 10" PVC WATER MAIN.
- INSTALL 10"x10"x8" TEE. NOTE: MAXIMUM DEFLECTION IS 1" PER FITTING.
- INSTALL 6" PVC TERMINAL WATER MAIN
- INSTALL 2" BLOW-OFF 5' PAST LAST SERVICE (TYP) PER UDACS PLATE #4A.
- INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE #7 W/ 8"x6" TEE AND 6" GATE VALVE.
- INSTALL 1-1/2" WATER SERVICE W/ 1-1/2" METER PER UDACS PLATE #1D. INSTALL FIRE SYSTEM PER NFPA 13.D.
- CONNECT 8" SEWER MAIN TO EXISTING SEWER MANHOLE (LT-867).
- INSTALL 8" PVC SEWER MAIN PER USD NO. 502 & 504.
- INSTALL 48" TYPE I SEWER MANHOLE PER STD DWG NO. 403.
- INSTALL 4" PVC SEWER SERVICE
- INSTALL 30" R1-1 "STOP" SIGN W/ 9" D3 STREET SIGN.
- INSTALL 8" GATE VALVE PER UDACS PLATE #3.
- INSTALL 8" x 6" REDUCER.
- INSTALL 10 LF STUB-OUT AND 2" BLOW-OFF PER UDACS #4A.
- INSTALL 10" GATE VALVE PER UDACS PLATE #3.
- INSTALL 8" x 10" INCREASER.
- INSTALL 10" TEE. NOTE: MAXIMUM DEFLECTION IS 1" PER FITTING.
- INSTALL 2" BLOW-OFF 10 FEET PAST TEE.
- INSTALL 100W HPS STREETLIGHT. (STA: 11+48.29; OFFSET: 27.75 RT)

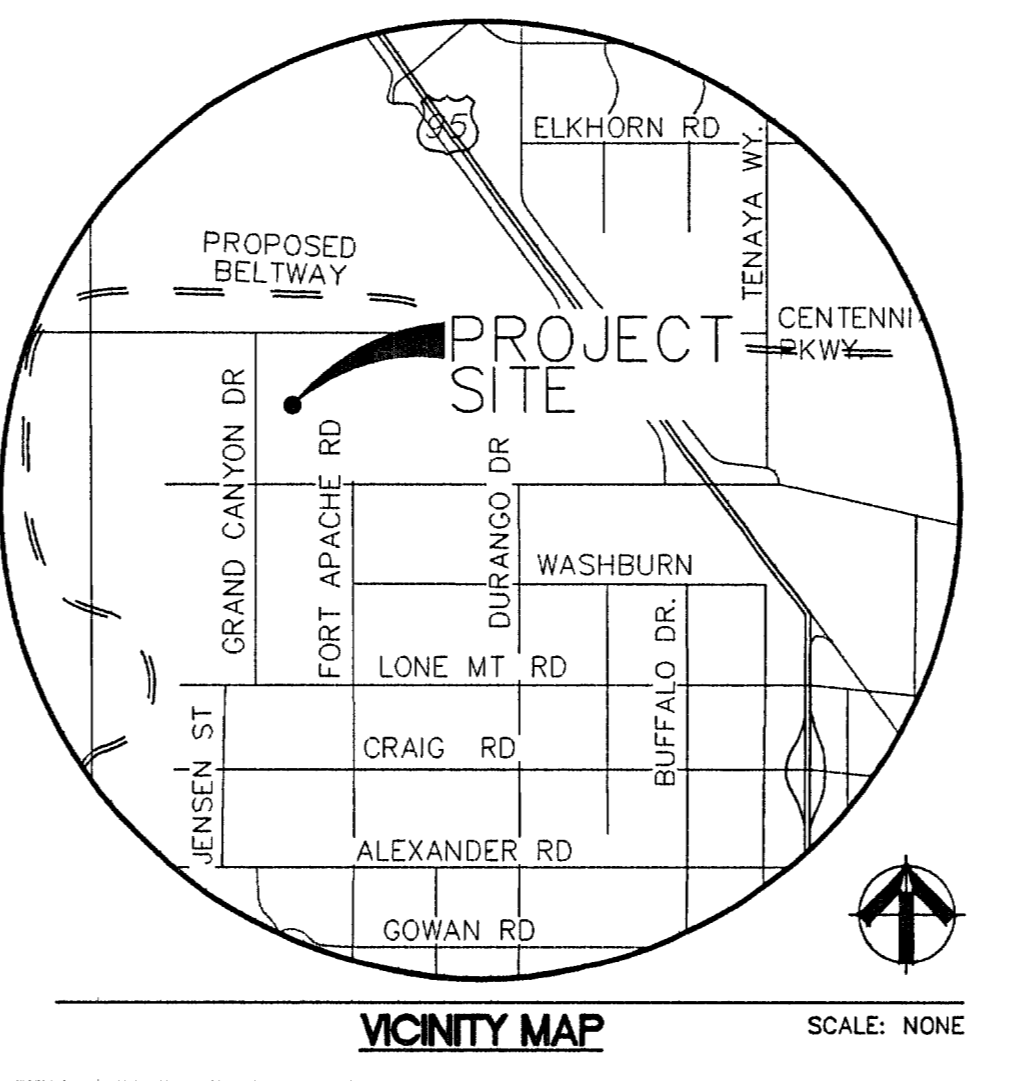
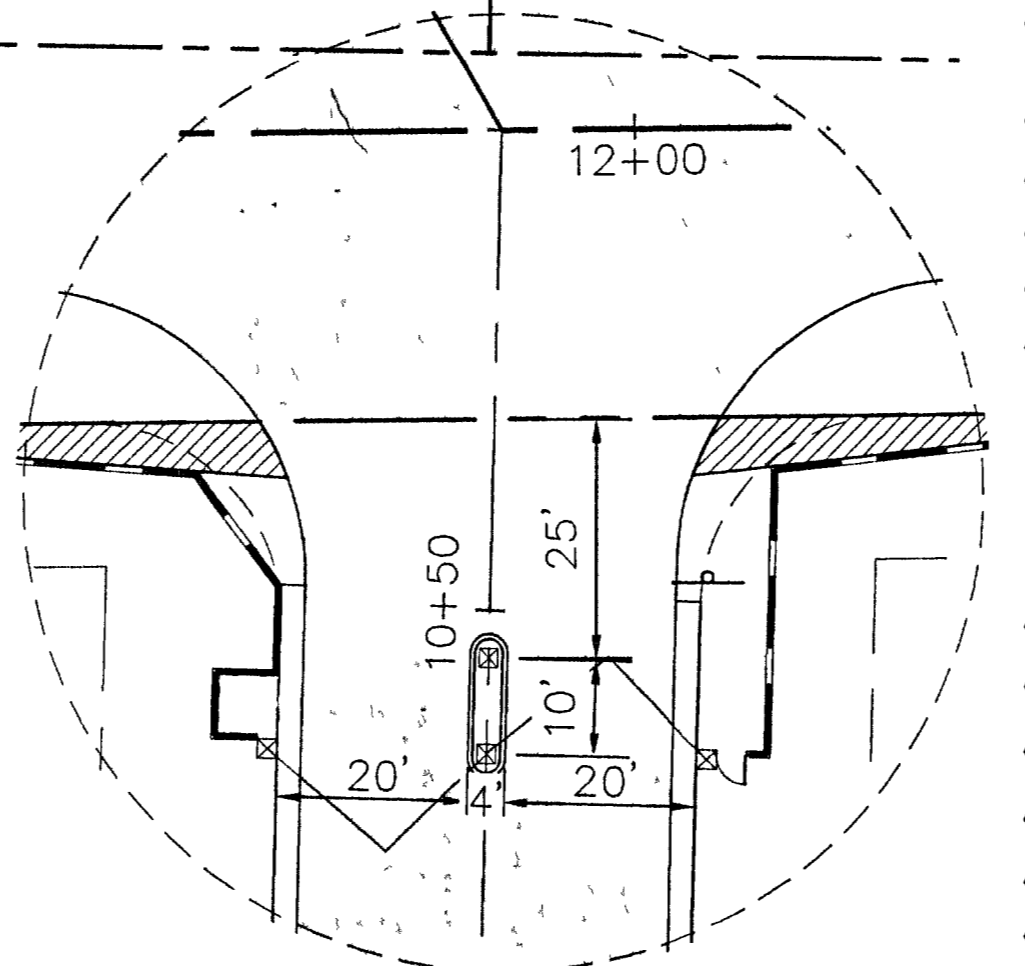


R1-1 NTS



D3 NTS

ENTRANCE AND GATE DETAIL



VICINITY MAP

SCALE: NONE

FIRE DEPARTMENT NOTES

- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE 1997 EDITION OF THE UNIFORM FIRE CODE, AND THE 1995 EDITION OF NATIONAL FIRE PREVENTION PROTECTION ASSOCIATION PAMPHLET #24.
- ON ANY BUILDING CONSTRUCTION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE MATERIALS ARE DELIVERED TO THE SITE AND CONSTRUCTION COMMENCES. SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH REQUIRED WATER SUPPLY.
- IF DURING CONSTRUCTION IT BECOMES NECESSARY TO CLOSE ANY CONTROL VALVE OR PLACE A HYDRANT OUT OF SERVICE, THE CLARK COUNTY FIRE DEPARTMENT MUST BE CONTACTED.
- PAINTING OF CURBS AND/OR STRIPPING OF ASPHALT AREAS AND PROTECTION OF HYDRANTS FROM PHYSICAL INJURY, PER FIRE HYDRANT INSTALLATION SPECIFICATIONS OF THE FIRE PREVENTION BUREAU.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN 25 FEET OF ANY STRUCTURE, OR 5 FEET OF A DRIVEWAY, POWER POLE, LIGHT STANDARD, OR ANY OTHER OBSTRUCTION FOR WALL, FENCE AND PLANTER LOCATIONS. A PERIMETER AROUND THE HYDRANT MEASURING A MINIMUM OF 3 FEET FROM ITS EXTERIOR SHALL BE MAINTAINED CLEAR OF ALL OBSTRUCTIONS AT ALL TIMES.
- AT ALL TIMES DURING CONSTRUCTION SUITABLE EMERGENCY VEHICLE ACCESS ROAD MUST BE MAINTAINED. ROADWAYS MUST BE SMOOTH, COMPACTED AND CAPABLE OF SUPPORTING THE IMPOSED LOADS OF ALL EMERGENCY VEHICLES.
- PRIOR TO ACCEPTANCE OF ANY PRIVATE FIRE SERVICE MAIN, A SATISFACTORY HYDROSTATIC TEST WITH PIPING JOINTS UNCOVERED MUST BE CONDUCTED. APPROVED PLANS AND A CONTRACTOR'S MATERIALS AND TEST CERTIFICATE MUST BE PROVIDED AT TIME OF INSPECTION.
- BLUE REFLECTIVE MARKERS INSTALLED BEFORE FINAL HYDRANT ACCEPTANCE CAN BE ATTAINED [97 UFC Sec. 901.4.3].

CLARK COUNTY FIRE DEPARTMENT

SPRINKLED
 ALL BUILDINGS MUST BE SPRINKLED PER NFPA 13.D.

APN 125-29-602-013
 LOT 2 PER LAND DIVISION 103-80
 NOT A PART

FIRE DEPARTMENT NOTES

PROJECT NAME: **A&W BRIGHT ANGEL**
 This project plan complies with the Las Vegas Valley Water District's technical requirements. However, this water plan is **NOT APPROVED FOR CONSTRUCTION** at this time and this signature does not provide or imply a water compliance.
 Date: 10/24/05
 Signature: [Handwritten Signature]

R=15.00'
 Δ=92°15'51"
 L=24.15'
 T=15.60'

TROPICAL PARKWAY

345.86'
 EX 12" SEWER @ S=0.025
 1383.45'

16+56.96
 JULIANO ROAD

684.80'
 ROAD

SMH #2
 RIM=2517.61±
 INV(THRU)=2503.06
 INV(N) EAST=2503.26

APN: 125-29-601-007
 NOT A PART

JULIANO ROAD (PUBLIC)
 NPT 33'28"E
 S=0.004

P STA: 13+29.64

SMH #1
 RIM=2517.00±
 INV(THRU)=2502.02

AD 10.5'

EX SMH (LT-867)
 RIM=(2512.82)
 INV WEST=(2500.85)
 INV EAST=(2500.65)
 INV (IN) NORTH=(2500.98)

872.55