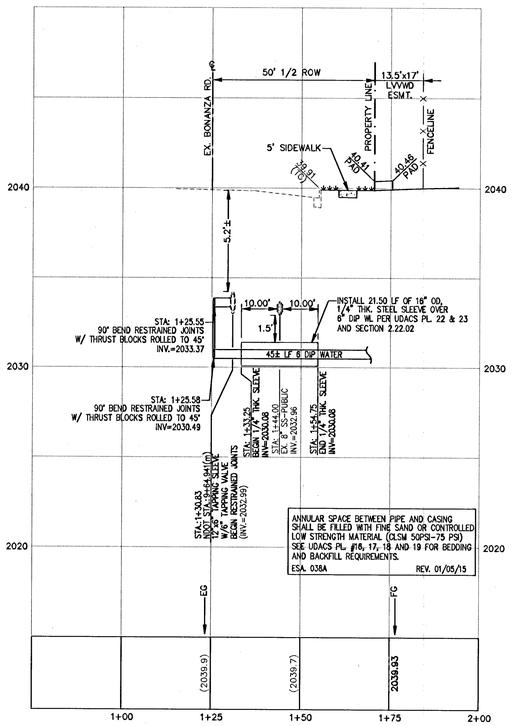
## ABBREVIATIONS
(SEE CVR. SHT. FOR COMPLETE LIST)

| | |
|---|---|
| AC | ASPHALTIC CONCRETE |
| ADJ | ADJUST |
| AGG | AGGREGATE |
| BC | BACK OF CURB |
| BCR | BEGINNING OF CURB RETURN |
| BEG | BEGIN |
| BSW | BACK OF SIDEWALK |
| BVC | BEGINNING OF VERTICAL CURVE |
| CATV | CABLE TV |
| CCAUSD | CLARK COUNTY AREA UNIFORM STANDARD DRAWING |
| CCRFCD | CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT |
| CL | CENTERLINE |
| CLV | CITY OF LAS VEGAS |
| CMU | CONCRETE MASONRY UNIT |
| CO | CLEAN OUT |
| COMM | COMMUNICATIONS |
| CONC | CONCRETE |
| COND | CONDUIT |
| CULV | CULVERT |
| DC | DEPRESSED CURB |
| DI | DROP INLET |
| DIP | DUCTILE IRON PIPE |
| DOM | DOMESTIC |
| ELEC | ELECTRIC |
| EAC | EDGE OF AC |
| EC | END OF CURVE |
| ECR | END OF CURB RETURN |
| ELEV | ELEVATION |
| EP | EDGE OF PAVEMENT |
| EVC | END OF VERTICAL CURVE |
| EX | EXISTING |
| FAST | FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION |
| FF | FINISH FLOOR |
| FG | FINISH GRADE |
| FH | FIRE HYDRANT |
| FL | FLOW LINE |
| FO | FIBER OPTICS |
| FS | FINISHED SURFACE |
| GB | GRADE BREAK |
| HDPE | HIGH DENSITY POLYETHYLENE |
| HDWL | HEADWALL |
| HGL | HYDRAULIC GRADE LINE |
| HP | HIGH POINT |
| INV | INVERT |
| IRR | IRRIGATION |
| LAT | LATERAL |
| LF | LINEAL FEET |
| LS | LANDSCAPE |
| LT | LEFT |
| LVVWD | LAS VEGAS VALLEY WATER DISTRICT |
| MAX | MAXIMUM |
| MH | MANHOLE |
| MIN | MINIMUM |
| MTR | METER |
| PB | PULL BOX |
| PL | PROPERTY LINE |
| PP | POWER POLE |
| PROP | PROPOSED |
| PVC | POLY VINYL CHLORIDE PIPE |
| PVMT | PAVEMENT |
| RIM | TOP OF MANHOLE OR CLEANOUT |
| RT | RIGHT |
| ROW | RIGHT-OF-WAY |
| SS | SANITARY SEWER |
| SD | STORM DRAIN |
| SNWA | SOUTHERN NEVADA WATER AUTHORITY |
| STA | STATION |
| STLT | STREET LIGHT |
| SVZ | SIGHT VISIBILITY ZONE |
| SW | SIDEWALK |
| TEL | TELEPHONE |
| TC | TOP OF CURB |
| TF | TOP OF FOOTING |
| TW | TOP OF WALL |
| TYP | TYPICAL |
| UDACS | UNIFORM DESIGN AND CONSTRUCTION STANDARDS |
| VG | VALLEY GUTTER |
| WL | WATER LINE |

## LEGEND

| DESCRIPTION | EXISTING | PROPOSED |
|---|---|---|
| **UTILITIES** | | |
| B.O. VALVE | | |
| FIRE HYDRANTS | | |
| CLEAN OUT | | |
| GATE VALVE | | |
| METER | | |
| REDUCER | | |
| CAP | | |
| 11.25° ELBOW | | |
| 22.5° ELBOW | | |
| 45° ELBOW | | |
| 90° ELBOW | | |
| CROSS | | |
| TEE | | |
| **MANHOLES** | | |
| ELECTRICAL | E | E |
| SANITARY SEWER | S | S |
| STORM DRAIN | D | D |
| TELEPHONE | T | T |
| **STREET LIGHTS** | | |
| 100W HPS STLT. | | |
| 150W HPS STLT. | | |
| 200W HPS STLT. | | |
| 250W HPS STLT. | | |
| 400W HPS STLT. | | |
| **GRADING** | | |
| SPOT ELEV. | (12.3±) TC | 12.34 TC |
| SLOPE | (1.2%±) | 1.23% |
| 5' CONT. | (2005) | 2005 |
| 1' CONT. | (2007) | 2007 |
| **SITE** | | |
| SIGN | | |
| "L" CURB | | |
| "A" CURB | | |
| EDGE OF PVMT. | | |
| WALL | | |
| **LINE TYPES** | | |
| CL OR SECTION LINE | | |
| PROPERTY LINE | | |
| RIGHT OF WAY LINE | | |
| EASEMENT LINE | | |
| SAWCUT LINE | | |
| FLOW LINE | | |
| **SHADES** | | |
| HEAVY AC PAVEMENT | | |
| LIGHT AC PAVEMENT | | |
| CONCRETE PAVEMENT | | |

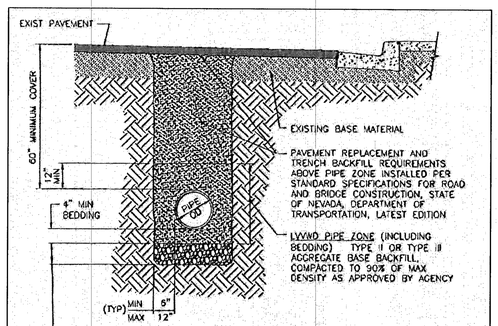



## 6" WATER UNDER EX. 8" SEWER CROSSING

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

### NDOT STATIONING:

ALL NDOT STATIONS ARE IN METERS (m). ALL OTHER STATIONS ARE IN FEET.

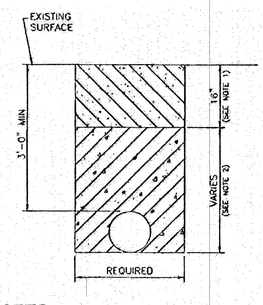



NOTE: FOR TRENCH SECTION NOTES SEE UDACS PLATE 19.

## TRENCH SECTION

BACKFILL SPECIFICATIONS
(FOR LVVWD WATER FACILITIES)
IMPROVED AND UNIMPROVED AREAS
(NDOT STREET ROW)

NOT TO SCALE




### NOTES:

1. BASE AGGREGATE (AS PER NDOT SPECIFICATIONS, SECTION 704). A MINIMUM OF 16 INCHES TO BE LAID IN MAXIMUM 8 INCH LOOSE LIFTS. 95% COMPACTION REQUIRED.
2. BACKFILL WITH SELECT MATERIAL TO BOTTOM OF BASE AGGREGATE (AS PER NDOT SPECIFICATIONS; SECTION 207). 90% COMPACTION REQUIRED.

## UNPAVED TRENCH SECTION

METHOD OF PATCHING ROADWAY WHERE TRENCHING IS NECESSARY FOR UTILITY OR OTHER INSTALLATIONS IN UNPAVED AREAS

NOT TO SCALE

**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT
ENGINEERING SERVICES MANAGER — DATE:

LVVWD PROJECT # 123359, SHEETS C1, C2, C5, C8
LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL


Avoid overhead power line contact, it's costly.
Call before you OVERHEAD
1-702-593-6111

Call before you Dig
Avoid cutting underground utility lines, it's costly.
Call 811

Call before you Underground
1-702-455-7011
CLARK COUNTY TRAFFIC OPERATIONS
1-702-229-6611
LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM



CivilWorks Inc
Engineering with "sensible" solutions tailored to your "specific" needs.
4945 W. Patrick Lane Las Vegas, NV 89118
Office#: (702)534-7555 Fax#: (702)534-1825


CONSULTANT LIST:

Sundance Surveying, Inc.
3835 VALLEY DRIVE
NORTH LAS VEGAS, NV 89032
TEL: (702) 642-8686
FAX: (702) 647-6686

# TENAYA CREEK BREWERY
## AT BONANZA ROAD AND H STREET

OWNER/DEVELOPER: RANK BREWERY
9612 GRAND ISLE ESTATES
LAS VEGAS, NEVADA
CONTACT: DICK ETTER
PHONE: 702-362-7335

# DETAIL SHEET

DATE: 01Apr15
PROJ. No.: 14015.00
PROJ. ENGR.: PRW
PROJ. MANAGER: PRW
DRAWN: TNO
CHECK: TNO
ENGR. CHK.: PRW
REVISIONS:

PRINTS REQUIRE ENGINEER'S SEAL AND SIGN FOR PROOF OF VALIDITY

PROFESSIONAL ENGINEER — PHILIP D. WAKEFIELD — Exp: 6/30/16 — CIVIL — No. 15468 — STATE OF NEVADA — 4-1-15

SHEET #: C6
#36473 6 OF 6

107V6394