

MASS GRADING  
FOR  
SKYE CANYON  
DETENTION BASIN 1

APN: 126-12-000-001



| Sheet List Table |       |              |
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| NO.              | SHEET | TITLE        |
| 1                | C-1   | COVER SHEET  |
| 2                | C-2   | NOTES SHEET  |
| 3                | G-1   | GRADING PLAN |

**S-G HANIFAN GROUP**  
CONSULTING ENGINEERS & PLANNERS  
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118  
PHONE (702) 284-5300 FAX (702) 284-5399

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.  
**CALL BEFORE YOU DO OVERHEAD**  
1-702-227-2929

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL SYSTEMS AND STREET LIGHT SYSTEM CONDUITS. IT'S COSTLY.  
**Call before you do UnderGround**  
1-702-455-7511  
CLARK COUNTY TRAFFIC OPERATIONS AND 1-702-432-5300  
LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM

Call before you Dig  
Avoid cutting underground utility lines. It's costly.  
**Call 811**  
OR 1-800-227-2600  
CLARK COUNTY TRAFFIC OPERATIONS 1-702-455-7544

**OWNER**  
SECTION 12, LLC/EAST OF 95 LLC  
C/O OLYMPIA COMPANIES, LLC  
11411 SOUTHERN HIGHLANDS PKWY, SUITE 300  
LAS VEGAS, NV 89141

**DEVELOPER**  
NINETY-FIVE MANAGEMENT, LLC  
C/O OLYMPIA COMPANIES, LLC  
11411 SOUTHERN HIGHLANDS PKWY, SUITE 300  
LAS VEGAS, NV 89141  
(702) 220-6565  
(702) 220-6566 FAX

**ENGINEER**  
SLATER HANIFAN GROUP, INC.  
5740 S. ARVILLE STREET #216,  
LAS VEGAS, NV 89118  
PHONE (702) 284-5300  
FAX (702) 284-5399

**FLOOD ZONE:**  
THIS SITE LIES WITHIN ZONE "X" DETERMINED TO BE OUTSIDE OF THE 500 YEAR FLOODPLAIN (0.2% ANNUAL CHANCE FLOOD) AS DEPICTED ON FIRM MAP PANEL NUMBER 32003C1735E & 32003C1750E, DATED SEPTEMBER 27, 2002.

**BENCHMARK**  
USDA BRASS CAP ON AN IRON PIPE, 140' SOUTHWEST OF TELEPHONE POLE #26994T, SOUTHWEST CORNER OF THE U.S. 95/KYLE CANYON TURNOFF.  
ELEVATION = 2817.62 FEET, 858.813 METERS  
N.A.V.D. 88 DATUM  
PER THE CLARK COUNTY VERTICAL CONTROL, LAST REVISED 2003

**BASIS OF BEARING**  
SOUTH 00°08'59" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 147, PAGE 71 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

**APPROVALS:**

CITY OF LAS VEGAS - CITY ENGINEER DATE  
APPROVAL OF THESE PLANS BY THE CITY ENGINEER IS LIMITED TO THOSE IMPROVEMENTS CONSTRUCTED IN THE DEDICATED OF RIGHT-OF-WAY, AND/OR DEDICATED EASEMENTS. THIS APPROVAL DOES NOT AUTHORIZE CONSTRUCTION OF ANY IMPROVEMENTS THAT DEVIATE FROM ADOPTED STANDARDS AND/OR SPECIFICATIONS EXCEPT THOSE SPECIALLY LISTED UNDER DEVIATIONS FROM STANDARDS. THE ENGINEER SHALL RESOLVE ANY DEVIATION OTHER THAN THOSE LISTED IN DEVIATIONS FROM STANDARDS IN FAVOR OF THE UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS, CLARK COUNTY AREA, NEVADA.

CHRIS KNIGHT, DIRECTOR - BUILDING AND SAFETY DATE  
THIS PLAN SET MEETS THE APPLICABLE STANDARDS OF THE PLANNING DEPARTMENT.

**SLATER HANIFAN GROUP**  
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CITY OF LAS VEGAS

**NINETY-FIVE MANAGEMENT**  
**SKYE CANYON DETENTION BASIN 1**  
**COVER SHEET**

DATE: 7/18/16  
DRAFTER: CS  
DESIGNER: BM  
CHECKED: SMJ  
PROJECT NO. **OLY1401-004**

**C-1**  
SHEET 1 OF 3

1. ALL CONSTRUCTION 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".

3. 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.

5. 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.

8. AC PAVEMENT TO BE ONE-HALF INCH ( $\frac{1}{2}$ ") ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.

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.

11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE AS SHOWN ON PLANS.

12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY GEO TEK,  
REPORT # 11687-LVR6, DATED MARCH 7, 2014 APPROVED BY THE CITY ENGINEER, AND  
AS SHOWN ON THESE PLANS.

13. 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.

14. 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. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.

15. 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. ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF 19.12.040.

WALL NOTES:  
16. 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.

17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.

18. 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.

19. 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.

20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC, THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFSITE 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.

21. SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE OFFICE OF INSPECTION AND TESTING SECTION PRIOR TO PROJECT ACCEPTANCE AND BOND RELEASE. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF THE SANITARY SEWER AND STORM DRAIN MAINS, THE LOCATION OF THE MANHOLE, 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 LATERAL ENTERS THE BUILDING. THE LOCATION OF THE SANITARY SEWER AND STORM DRAIN MAP(S) SHALL BE BASED ON THE "NEVADA COORDINATE SYSTEM OF 1983, EAST ZONE" AS DEFINED BY THE NEVADA REVISED STATUTES CHAPTER 327, AND THE LOCATION OF THE SANITARY SEWER AND STORM DRAIN MAP(S) SHALL ALSO BE MUST BE CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINIES OF  $\pm 0.1$  METER ( $\pm 0.3$  FEET). A SEPARATE ELECTRONIC COMMA DELIMITED DATA FILE SHALL BE PROVIDED TO THE OFFICE OF INSPECTION AND TESTING SECTION. THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).

22. STORM DRAIN LATERALS REQUIRE THE INSTALLATION OF A MARKER BALL AT THE CONNECTION OF THE STORM DRAIN LATERAL TO THE STORM DRAIN MAIN AND WHERE THE STORM DRAIN LATERAL EXITS THE PUBLIC RIGHT-OF-WAY OR WHERE THE STORM DRAIN LATERAL CONNECTS TO A DROP INLET. THE MARKER BALL SHALL BE 3M 4" MARKER BALL 1404-XR OR APPROVED EQUAL.

23. 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 ADDITION.

24. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

1. 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.
2. 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.
3. 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.

4. 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.

5. 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.

6. 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:

|                           | HORIZONTAL | VERTICAL COMPACTION |                  |
|---------------------------|------------|---------------------|------------------|
| 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 |

7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.

8. 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.

9. 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.

10. 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.

(REQUIRED FOR ALL SITES GREATER THAN 1 ACRE (43,560 SQ.FT.))

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE IN, THE PUBLIC RIGHTS OF WAYS OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.

2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN ORDINANCE MC 14.18 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES MANUAL.

3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME

CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.

4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION II.A.12.

5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

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|                     |                                             |
|---------------------|---------------------------------------------|
| ACG                 | ASPHALTIC CONCRETE OR ACRE                  |
| AGG                 | AGGREGATE BASE                              |
| APN                 | APPROPRIATE PARCEL NUMBER                   |
| APPRX OR ~          | APPROXIMATE                                 |
| B                   | BOULEVARD                                   |
| BC                  | BT                                          |
| Ø                   | BEHIND CURVE OR BACK OF CURB                |
| BH                  | BEGINNING OF CURB RETURN                    |
| BHW                 | BOTTOM OF HEADWALL                          |
| BLDG                | BUILDING                                    |
| BLVD                | BOULEVARD                                   |
| BMC                 | BENCHMARK                                   |
| BVN                 | BEGIN VERTICAL CURVE                        |
| BWV                 | BOX WATER VALVE                             |
| CC                  | CLARK COUNTY                                |
| CCAUSD              | CLARK COUNTY AREA UNIFORM STANDARD DRAINAGE |
| CCFCD               | CLARK COUNTY REGIONAL FLOOD DISTRICT        |
| CE                  | COMMON ELEMENT                              |
| CL <sub>CL</sub> /C | CENTERLINE                                  |
| CLR                 | CLEAR OR CLEARANCE                          |
| CONC                | CONCRETE AND LOW STRENGTH MATERIAL          |
| CONC&C              | CEMENT MORTAR LINED AND COATED              |
| CMU                 | CONCRETE MASONRY UNIT                       |
| CONC                | CONCRETE                                    |
| CT                  | COURT                                       |
| CY OR CU YD         | CUBIC YARD                                  |
| DCWCS               | DESIGN AND CONSTRUCTION FOR WASTEWATER      |
| DET                 | DETAIL                                      |
| DE                  | DRAINAGE EASEMENT                           |
| DIA. Ø              | DIAMETER                                    |
| DUP                 | DUCTILE IRON PIPE                           |
| DR                  | DRIVE                                       |
| DWD(S)              | DRAWING                                     |
| EAC                 | EASEMENT                                    |
| EOR                 | END CURB RETURN                             |
| EG                  | EXISTING GROUND                             |
| EL                  | ELEVATION                                   |
| ESMT                | EASEMENT                                    |
| EP                  | EDGE OR PAVEMENT                            |
| EX OR EXIST         | EXISTING                                    |
| FC                  | FACE OF CURB                                |
| FF                  | FINISHED FLOOR                              |
| FG                  | FINISHED GRADE                              |
| FI                  | FIRE HYDRANT                                |
| FL                  | FLOWLINE                                    |
| FT                  | FEET OR FOOT                                |
| FUT                 | FUTURE                                      |
| GRO                 | GRADE OR GROUND                             |
| GB                  | GRADE BREAK OR GRADE CHANGE                 |

|           |                                       |
|-----------|---------------------------------------|
| GV        | GATE VALVE                            |
| HDP       | HIGH DENSITY POLYETHYLENE             |
| HOA       | HOME OWNERS ASSOCIATION               |
| HPTZ      | HORIZONTAL                            |
| HP        | HIGH POINT                            |
| HWL       | HIGH WATER LEVEL                      |
| HYD OR HW | HEADWALL                              |
| HYD       | HYDRAULIC OR HYDRANT                  |
| ID        | INSIDE DIAMETER                       |
| IN        | IN                                    |
| INT       | INTERSECTION                          |
| INV       | INVERT ELEVATION                      |
| IRP       | IRON PIPE                             |
| IRR       | IRRIGATION                            |
| LF        | LINEAR FEET                           |
| LP        | LOW POINT                             |
| LT OR L   | LEFT                                  |
| LW        | LOW WATER LEVEL                       |
| MAX       | MAXIMUM                               |
| MECH      | MECHANICAL                            |
| MH        | MANHOLE                               |
| MIN       | MINIMUM                               |
| MISC      | MISCELLANEOUS                         |
| MUE       | MUNICIPAL UTILITY EASEMENT            |
| NP        | NOT PART                              |
| NDOT      | NEVADA DEPARTMENT OF TRANSPORTATION   |
| NTS       | NOT TO SCALE                          |
| NE        | NEVADA ENERGY                         |
| OC        | ON CENTER                             |
| OD        | OUTSIDE DIAMETER OR OVERALL DIMENSION |
| OFF OR OF | OFFSET                                |
| OR        | ORIGINAL                              |
| PAA       | PUBLIC OR PEDESTRIAN ACCESS EASEMENT  |
| PB        | PULL BOX                              |
| PC        | POINT OF CURVE                        |
| PCC       | POINT OF COMPOUND CURVE               |
| PDE       | PUBLIC DRAINAGE EASEMENT              |
| R OR PL   | PROPERTY LINE                         |
| BO        | POINT OF BEGINNING                    |
| PCC       | POINT OF CURVATURE                    |
| POE       | POINT OF ENDING                       |
| PRV       | POINT OF REVERSE CURVATURE            |
| PRELIM    | PRELIMINARY                           |
| PROP      | PROPOSED                              |
| PRV       | PRESSURE REDUCING VALVE               |
| PUE       | PUBLIC UTILITY EASEMENT               |
| PT        | POINT OF TANGENT OR POINT             |
| PVC       | POLYVINYL CHLORIDE                    |
| QTY       | QUANTITY                              |
| QV        | POINT OF VERTICAL INTERSECTION        |

|              |                                           |
|--------------|-------------------------------------------|
| RADIUS       |                                           |
| RCBR         | REINFORCED CONCRETE BOX                   |
| RCR          | ROLLER COMPACTED CEMENT                   |
| RCRCP        | REINFORCED CONCRETE PIPE                  |
| RO           | ROAD                                      |
| RWDY ESMT    | ROADWAY EASEMENT                          |
| RREQ         | REQUIRED                                  |
| REV          | REVISION                                  |
| RT OR R      | RIGHT                                     |
| RT, R/W, ROW | RIGHT OF WAY                              |
| S            | SLOPE                                     |
| SCH          | SCHEDULE                                  |
| SD           | STORM DRAIN                               |
| SDMH         | STORM DRAIN MANHOLE                       |
| SEC          | SECTION                                   |
| SF           | SQUARE FEET                               |
| SHT          | SHEET                                     |
| SL           | SLOPE                                     |
| SLTC         | STREET LIGHT AND TRAFFIC CONTROL EASEMENT |
| SNWA         | SOUTHERN NEVADA WATER AUTHORITY           |
| SPCS         | SPECIFICATIONS                            |
| ST           | STREET                                    |
| SSMH         | SANITARY SEWER MANHOLE                    |
| STA          | STATION                                   |
| STA          | STANDARD                                  |
| STL          | STEEL OR STREET LIGHT                     |
| SW           | SIDEWALK                                  |
| SWW          | SOUTHWEST GAS                             |
| SWR OR SS    | SANITARY SEWER                            |
| SY           | SQUARE YARD                               |
| TAN          | TANGENT                                   |
| TC           | TOP OF CURB                               |
| TF           | TOP OF FOOTING                            |
| TR           | TOP OF GRATE                              |
| THRU         | THROUGH                                   |
| THW          | TOP OF HEADWALL                           |
| TP           | TOP OF PIPE                               |
| TPW          | TOP OF WALL                               |
| TRW          | TOP OF RETAINING WALL                     |
|              | TYPICAL                                   |
| UDACS        | UNIFORM DESIGN AND CONSTRUCTION           |
|              | STANDARDS                                 |
| VC           | VERTICAL CURVE                            |
| VERT         | VERTICAL                                  |
| VG           | VALLEY GUTTER                             |
| W            | WROUGHT IRON                              |
| WL           | WATER LINE                                |
| WPR          | WATER PRESSURE ZONE                       |
| WT           | WEIGHT                                    |
| WT           | WATER LINE                                |

--- DRAINAGE EASEMENT  
 --- ROADWAY CENTERLINE  
 --- RIGHT-OF-WAY  
 --- LOT LINE  
 --- SECTION LINE  
 --- EXISTING CURB AND GUTTER WITH  
 --- RIGHT-OF-WAY AT BACK OF CURB  
 --- 18" RCP SD --- STORM DRAIN PIPE W/ MANHOLE  
 --- GRADE BREAK LINE  
 --- FLOWLINE  
 00.00  
 TC PROPOSED ELEVATION  
 (00.00)  
 TC EXISTING ELEVATION  
 --- 2600 --- EXISTING CONTOUR (5-FT)  
 --- EXISTING CONTOUR (1-FT)  
 --- 2600 --- PROPOSED CONTOUR (5-FT)  
 --- PROPOSED CONTOUR (1-FT)

USDA BRASS CAP ON AN IRON PIPE, 140' SOUTHWEST OF TELEPHONE POLE #26994T, SOUTHWEST CORNER OF THE U.S. 95/KYLE CANYON TURNOFF.

ELEVATION = 2817.62 FEET, 858.813 METERS  
N.A.V.D. 88 DATUM  
PER THE CLARK COUNTY VERTICAL CONTROL LAST REVISED 2003

SOUTH 00°08'59" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE1/4) OF SECTION 12, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF IN BOOK 147, PAGE 71 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, NEVADA.

