

**ABBREVIATIONS**

@	AT				
#	NUMBER				
A	ANODE				
A	AMPERES				
AB	ABANDONED				
AC	ASPHALTIC CONCRETE				
ACP	ASBESTOS CEMENT PIPE				
AD	ALGEBRAIC DIFFERENCE				
AGG	AGGREGATE				
AIP	ABANDON IN PLACE				
ALT	ALTERNATE				
AP	ANGLE POINT				
APP	APPROACH				
APPROX	APPROXIMATE				
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS				
AV/AR	AIR VACUUM AIR RELIEF VALVE				
AWG	AMERICAN WIRE GAUGE				
BC	BACK OF CURB				
BCR	BACK OF CURB RADIUS				
BLK	BLOCK				
BLVD	BOULEVARD				
BM	BENCHMARK				
BO	BLOW OFF				
BOT	BOTTOM				
BRG	BRIDGE				
BS	BACK SLOPE				
BSW	BACK OF SIDEWALK				
BVC	BEGIN VERTICAL CURVE				
BVCE	BEGINNING OF VERTICAL CURVE ELEVATION				
BVCS	BEGINNING OF VERTICAL CURVE STATION				
BW	BOTTOM WIDTH				
BWC	BASIC WATER COMPANY				
C&G	CURB AND GUTTER				
C-C	CENTER TO CENTER				
CATV	CABLE TELEVISION				
CBC	CITY OF BOULDER CITY				
CC	CLARK COUNTY				
CCAUSD	CLARK COUNTY AREA UNIFORM STANDARD DRAWING				
CCRFCD	CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT				
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT				
CCW	COUNTER CLOCKWISE				
CF	CUBIC FOOT				
CIP	CAST IRON PIPE OR CAST IN PLACE				
CL	CENTERLINE				
CLR	CLEAR				
CLV	CITY OF LAS VEGAS				
CM	CONSTRUCTION MANAGER OR CITY OF MESQUITE				
CMP	CORRUGATED METAL PIPE				
CMU	CONCRETE MASONRY UNIT				
CNDT	CONDUIT				
CNLV	CITY OF NORTH LAS VEGAS				
CO	CLEANOUT				
COH	CITY OF HENDERSON				
COL	COLUMN				
COMM	COMMERCIAL				
CON'T	CONTINUATION				
CONC	CONCRETE				
CONST	CONSTRUCT OR CONSTRUCTION				
COR	CORNER				
CPP	CORRUGATED PLASTIC PIPE				
CSAP	CORRUGATED STEEL ARCH PIPE				
CSP	CORRUGATED STEEL PIPE				
CU	CUBIC				
CULV	CULVERT				
CW	CLOCKWISE				
CY	CUBIC YARD				
D	DEPTH				
D	DISTANCE				
DCSWCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS				
DET	DETAIL				
DEPT	DEPARTMENT				
DG	DESIGN GRADE				
DI	DROP INLET				
DIA	DIAMETER				
DIAG	DIAGONAL				
DMS	DYNAMIC MESSAGE SIGN				
DW	DRIVEWAY				
DWG	DRAWING				
E	EAST				
E/o	EAST OF				
EA	EACH				
EB	EASTBOUND				
EC	END OF CURVE				
ECR	END CURB RETURN				
EF	EACH FACE				
EG	EXISTING GROUND				
ELEC	ELECTRICAL				
ELEV	ELEVATION				
EMBK	EMBANKMENT				
EOP	EDGE OF PAVEMENT				
EP	EDGE OF PAVEMENT				
EQ	EQUAL				
ESMT	EASEMENT				
EVC	END VERTICAL CURVE				
EVCS	END VERTICAL CURVE STATION				
EW	EACH WAY				
EX	EXISTING				
EXP JT	EXPANSION JOINT				
FA	FIRE ALARM				
FC	FACE OF CURB				
FF	FINISHED FLOOR ELEVATION				
FG	FAR FACE				
FG	FINISHED GRADE				
FH	FIRE HYDRANT				
FL	FLOW LINE				
FO	FIBER OPTIC				
FR	FACE OF RAIL				
FT	FOOT OR FEET				
G	GAS LINE				
G	GRAMS				

**LEGEND**

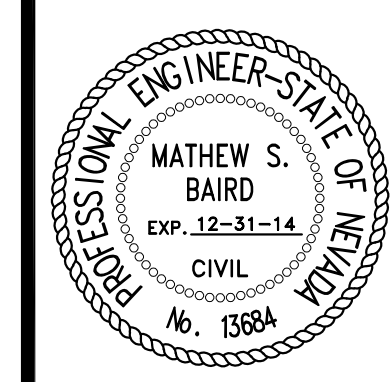
SHLD	SHOULDER		
SHT	SHEET		
SHP	STEEL HIGH PRESSURE PIPE		
SL	STREET LIGHT		
SMFO	SINGLE MODE FIBER OPTIC		
SNWA	SOUTHERN NEVADA WATER AUTHORITY		
SNWS	SOUTHERN NEVADA WATER SYSTEM		
SPA	SPACING		
SQ	SQUARE		
SS	SANITARY SEWER/SIDE SLOPE		
SST	STAINLESS STEEL		
ST	STREET		
STA	STATION		
STD	STANDARD		
STL	STEEL		
STLT	STREETLIGHT		
STRUCT	STRUCTURAL OR STRUCTURE		
SURV	SURVEY		
SW	SIDEWALK		
SY	SQUARE YARD		
T	TELEPHONE LINE		
TAN	TANGENT		
TB	TOP OF BOX		
TBA	TO BE ADJUSTED		
TBC	TOP OF BACK OF CURB		
TBR	TO BE REMOVED		
TC	TOP OF CURB		
TEL	TELEPHONE		
TEMP	TEMPORARY		
THK	THICK		
THR	THRUST		
THW	TOP OF HEADWALL		
TOF	TOP OF FACE		
TOW	TOP OF WALL		
TP	TOP OF PIPE		
TRANS	TRANSITION		
TS	TRAFFIC SIGNAL		
TSI	TRAFFIC SIGNAL INTERCONNECT		
TW	TOP OF WALL		
TYP	TYPICAL		
UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS UNDERGROUND		
UG	UNDERGROUND		
UGP	UNDERGROUND POWER		
UIE	UPPER INVERT ELEVATION		
UNO	UNLESS NOTED OTHERWISE		
UPRR	UNION PACIFIC RAILROAD		
USD	UNIFORM STANDARD DRAWING		
UTACS	ULTRA THIN ASPHALT CONCRETE SURFACE		
V	VOLT		
VAR	VARIABLE		
VC	VERTICAL CURVE		
VCP	VITRIFIED CLAY PIPE		
VERT	VERTICAL		
VG	VALLEY GUTTER		
VOTR	VIDEO OPTICAL TRANSCEIVER		
W	WEST		
W/	WITH		
W/o	WEST OF		
WB	WEST BOUND		
WL	WATER LINE		
WM	WATER METER		
WN	WEAKENED PLANE JOINT		
WO/	WITHOUT		
WOUS	WATERS OF THE U.S.		
WVJ	WEAKENED PLANE JOINT		
WV	WATER VALVE		
WW	WING WALL		
YD	YARD(S)		

RPPA	FLAGGER		
BLOWOFF	IMPACT		
CAP	PPCBB		
CELL TOWER	PULLBOX No. 3 1/2		
LOOP DETECTOR	PULLBOX No. 5		
DROP INLET	PULLBOX TRAFFIC SIGNAL		
AREA INLET	PULLBOX No. 7		
DRUM	PULLBOX No. 9		
BENCHMARK	PULLBOX No. 30		
MONUMENT CALCULATED	PULLBOX P-30		
MONUMENT FOUND	PULLBOX T-300		
MONUMENT TYPE 1	ANGLE POINT		
MONUMENT TYPE 2	COORDINATE		
MONUMENT TYPE 3	PVI		
MONUMENT TYPE Z	HYDRAULIC GRADE LINE		
FDC	EXISTING ELEVATION		
FH EXISTING	NEW ELEVATION		
FH PROPOSED	ELEVATION [PROPOSED BY OTHERS]		
POST INDICATING VALVE	CONDUIT RUN NUMBER		
EXISTING GATE VALVE	SIGNAL POLE LABEL		
GATE VALVE	EXISTING STREETLIGHT		
HC DOMES	STREETLIGHT 100w		
MH	STREETLIGHT 150w		
REDUCER	STREETLIGHT 200w		
UTILITY VAULT	STREETLIGHT 250w		
GUY WIRE	STREETLIGHT 400w		
TRANSMISSION POLE	STREETLIGHT 450w		
UTILITY POLE	STREETLIGHT 750w		
TEST STATION	SERVICE PEDESTAL		
AIR-VACUUM VALVE	EXISTING SERVICE POINT		
WATER METER	SIGNPOST AND D3		
NDOT BARRIER A	SIGNPOST EXISTING		
NDOT BARRIER B	SIGNPOST NEW		
NDOT BARRIER FA	OPTICOM		
NDOT BARRIER FB	RED LIGHT INDICATOR		
NDOT BARRIER PORTABLE	VIDEO CAMERA		
NDOT CURB 2	CONTROLLER		
NDOT CURB 3	SCHOOL FLASHER		
NDOT CURB A	PEDESTRIAN INDICATOR		
NDOT CURB B	SIGNAL HEAD		
NDOT CURB GUTTER 1	SIGNAL HEAD PERMISSIVE		
NDOT CURB GUTTER 4	SIGNAL HEAD PROTECTED		
NDOT CURB GUTTER 5	ILLUMINATED STREET NAME SIGN		
NDOT CURB GUTTER 6	SIGN ON ARM		
NDOT CURB GUTTER 7	EXISTING SIGNAL ARM		
NDOT CURB GUTTER 8	PROPOSED SIGNAL ARM		
NDOT GUARDRAIL 3	DETECTION ZONE, MINIMUM AREA		
NDOT GUARDRAIL 4	PROPOSED SIGN		
NDOT PED RAIL R	EXISTING SIGN		

CENTERLINE	PROPERTY LINE	RIGHT OF WAY	MATCHLINE	PROPOSED STREETLIGHT CONDUIT	EXISTING STREETLIGHT CONDUIT	PROPOSED 4" INTERCONNECT CONDUIT	PROPOSED 3" INTERCONNECT CONDUIT	TRAFFIC SIGNAL CONDUITS	EXISTING CHAIN LINK FENCE	EXISTING BLOCK WALL	RETAINING WALL	EXISTING OVERHEAD POWER	EXISTING UNDERGROUND POWER	EXISTING SANITARY SEWER	EXISTING WATER	EXISTING GAS	EXISTING CABLE T.V.	EXISTING STORM DRAIN	EXISTING TELEPHONE	EXISTING CONCRETE ENCASUREMENT	TRAFFIC SIGNAL CONDUITS	PROPOSED INTERCONNECT	STUB AND CAP	SAWCUT PAVEMENT	LIMITS OF OPEN GRADE	EDGE OF PAVEMENT	GUARD RAIL	LANE LINE 8"	LANE LINE CAT TRACKS	LANE LINE DROP	LANE LINE STORAGE 8"	LANE LINE TYPE 1	LANE LINE TYPE 2	LANE LINE TYPE 3	LANE LINE TYPE 4	NEW STORM DRAIN W/MANHOLE	NEW STORM DRAIN W/PRECAST TEE	EXISTING SCARP	PROPOSED SCARP	CURB AND GUTTER	EXISTING	PROPOSED	PROPOSED BY OTHERS
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**DEPARTMENT OF PUBLIC WORKS**  
**ENGINEERING DESIGN SECTION**  
 CITY ENGINEER: DAVID BOWERS, P.E., P.T.O.E.  
 CITY PROGRAM MANAGER: MARK SORENSEN, P.E.  
 PROJECT MANAGER: MATT BAIRD, P.E.  
 DESIGN BY: SMB  
 CHECK BY: SCR  
 DRAWN BY: TKS  
 DATE: JUNE 2013

**GENERAL NOTES**  
**LEGEND AND ABBREVIATIONS**



**Call before you Dig**  
 Avoid cutting, underground utility lines, it's costly.  
**Call before you Overhead**  
 Avoid overhead power line contact, it's costly.  
 1-800-227-2600  
 CLARK COUNTY TRINIC OPERATIONS  
 1-702-455-7544  
 1-702-227-2929  
 NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

**ATKINS**  
 2270 Corporate Circle Suite 200 Henderson, Nevada 89074 Telephone: 702/263-7275 Fax: 702/263-7200

SHEET:  
**GN2**  
 3 of 63  
 DRAWING#  
**731-90**

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**NOT FOR CONSTRUCTION 70% SUBMITTAL**