

**ABBREVIATIONS**

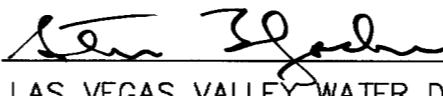
ABAN	ABANDON	FA	FIRE ALARM	RT	RIGHT
AC	ASPHALTIC CONCRETE	FD	FACE OF CURB	RR	RAILROAD
ACP	ASBESTOS CEMENT PIPE	FC	FOUND	RAD	RADIAL
AGG	AGGREGATE	FL	FLOW LINE	REINF	REINFORCED
ALT	ALTERNATE	FG	FINISH GRADE	RET. WALL	RETAINING WALL
A	ANODE GAS	FH	FIRE HYDRANT	RC	REINFORCED CONCRETE
APPROX	APPROXIMATE	FO	FIBER OPTIC CABLE	RCB	REINFORCED CONCRETE BOX
AVE	AVENUE	FT	FOOT/FEET	RCP	REINFORCED CONCRETE PIPE
BCR	BACK OF CURB RETURN	FUT	FUTURE	RELOC	RELOCATE
BOC, BC	BACK OF CURB	GALV	GLAVANIZED	R/W, ROW	RIGHT OF WAY
BOB	BASIS OF BEARINGS	GM	GAS METER	RD	ROAD
BM	BENCHMARK	GR	GAS PRESSURE REGULATOR	SS	SANITARY SEWER
BDRY LINE	BOUNDARY LINE	GV	GAS VALVE	SHT	SHEET
B/W, BW	BACK OF SIDEWALK	GW	GUY WIRE	S/L	STREETLIGHT
C, CL	CENTERLINE	PE	POLYETHYLENE	S/O	SOUTH OF
C-C	CENTER TO CENTER	GB	GRADE BREAK	SW	SIDEWALK
CALC'D	CALCULATED	GUT	GUTTER	SQ FT, SF	SQUARE FOOT
CATV	CABLE TELEVISION	HDWL	HEAD WALL	SQ YD, SY	SQUARE YARD
C.A.T.	CITIZEN AREA TRANSIT	HERCP	HORIZONTAL ELLIPTICAL REINFORCED	STA	STATION
CL	CITY OF LAS VEGAS	HGL	HORIZONTAL GRADE LINE	SHP	STEEL HIGH PRESSURE PIPE
CG	CROSS CUTTER	SD	CONCRETE PIPE	SD	STORM DRAIN
CMU	CONCRETE MASONRY UNIT	SNWA	SOUTHERN NEVADA WATER AUTHORITY	STD	STANDARD
CNLV	CITY OF NORTH LAS VEGAS	STD	STANDARD	STRUCT	STRUCTURAL OR STRUCTURE
CC	CLARK COUNTY	STRV	SURVEY	STREET LIGHT	STREET LIGHT
CCSD	CLARK COUNTY SANITATION DISTRICT	IMP	IMPROVEMENT(S)	SL	SLOPE=XX
CCASD	CLARK COUNTY AREA STANDARD DRAWINGS	IN	INCH	S/W, SW	SIDEWALK
CND'T	CONDUIT	INT	INTERSECTION	T	TELEPHONE
CO	CLEAN OUT - SEWER	INV	INVERT	TEMP	TEMPORARY
COMM.	COMMERCIAL	ISL	ISLAND	TBA	TO BE ADJUSTED
CONC, PCC	CONCRETE	JB	JUNCTION BOX	TBC	TOP BACK OF CURB
COND.	CONDUCTOR	L	LENGTH	TBR	TO BE REMOVED
CONST	CONSTRUCTION OR CONSTRUCT	LLH	LONG LEG HORIZONTAL	TC	TOP OF CURB
COR	CORNER	LOC	LENGTH OF CURB	TH	TEST HOLE
CMP	CORRUGATED METAL PIPE	LOL	LAYOUT LINE	TP	TOP OF PIPE
CSAP	CORRUGATED STEEL ARCH PIPE	LT	LEFT	TS	TRAFFIC SIGNAL
CSP	CORRUGATED STEEL PIPE	LF	LINEAR FOOT	TSI	TRAFFIC SIGNAL INTERCONNECT
C&G	CURB AND GUTTER	L/VVWD	LAS VEGAS VALLEY WATER DISTRICT	TRANS	TRANSITION
CIP	CAST IRON PIPE	M.E.	MATCH EXISTING	TV	TELEVISION
COL	COLUMN	MH	MANHOLE	TYP	TYPICAL
CU YD, CY	CUBIC YARD	MAX	MAXIMUM	TEL, TELE	TELEPHONE
CU FT, CF	CUBIC FOOT	MIN	MINIMUM	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS
CULV	CULVERT	MON	MONOLITHIC	UG	UNDERGROUND
CF	CURB FACE	MSE	MECHANICALLY STABILIZED EARTH	U.O.N.	UNLESS OTHERWISE NOTED
DEPT	DEPARTMENT	N.A.P.	NOT A PART	USDCCA	UNIFORM STANDARD DRAWINGS, CLARK COUNTY AREA
DIA	DIAMETER	N/A	NOT APPLICABLE	USS	UNIFORM STANDARD SPECIFICATION VARIES OR VARIABLE
DI	DROP INLET	N/O	NORTH OF	VAR	VERTICAL
DCSWCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS	N.I.C.	NOT IN CONTRACT	VERT. V	VERTICAL CURVE
DWG	DRAWING	NO.	NUMBER	VCP	VITRIFIED CLAY PIPE
ESMT	EASEMENT	NTS	NOT TO SCALE	VG	VERTICAL GRADE
E/O	EAST OF	NVPC	NEVADA POWER COMPANY	W	WATER
D/W, DW	DRIVEWAY	OC	ON CENTER	WC	WHEEL CHAIR
DWG	DRAWING	OD	OUTSIDE DIAMETER	WM	WATER METER
EA	EACH	OG	OPEN GRADED PAVEMENT, ORIGINAL GROUND	W/O	WEST OF
EF	EACH FACE	OD	OUTSIDE DIAMETER	WV	WATER VALVE
EG	EXISTING GROUND	OG	OPEN GRADED PAVEMENT, ORIGINAL GROUND	W/Y	W/ YARD
EL, ELEV	ELEVATION	PE	POLYETHYLENE	YD	YARD
ELEC, E	ELECTRIC	PVMT	PAVEMENT	D	INCLUDED ANGLE
EOP, EP	EDGE OF PAVEMENT	PI	POINT OF INTERSECTION		
EO	EDGE OF OIL	PT	POINT OF TANGENCY		
EM	ELECTRIC METER	PC	POINT OF CURVE		
EMBK	EMBANKMENT	PCC	POINT OF COMPOUND CURVE		
EOR	END OF CURB RETURN	PRC	POINT OF REVERSE CURVE		
EPS	CATHODE PROTECTION BOND STATION	PP	POWER POLE		
ETS	CATHODE PROTECTION TEST SATION	PCC	PORTLAND CEMENT CONCRETE		
EVC	END OF VERTICAL CURVE	PB	PULL BOX		
EXIST, EX	EXISTING	PGL	PROFILE GRADE LINE		
EXOH	EXISTING OVERHEAD UTILITY	PKWY	PARKWAY		
		PL	PROPERTY LINE		
		P	POWER		
		PROP	PROPOSED		
		R	RADIUS, RADIAL		
		PLS	PROFESSIONAL LAND SURVEYOR		
		PVC	POLYVINYL CHLORIDE		

**LEGEND**

---	SURVEY HORIZONTAL CONTROL LINE	EXISTING	W M	WATER METER	PROPOSED	○	STREET LIGHT
---	RIGHT-OF-WAY	EXISTING	W V	WATER VALVE	PROPOSED	○	STREET LIGHT
---	PROPOSED UTILITY EASEMENT	EXISTING	☀	STREET LIGHT	PROPOSED	○	STREET LIGHT
---	EXISTING UTILITY EASEMENT	EXISTING	☀	FIRE HYDRANT	PROPOSED	○	STREET LIGHT
---	NEW RETAINING WALL	EXISTING	♿	WHEELCHAIR RAMP	PROPOSED	○	STREET LIGHT
---	SAWCUT LINE	EXISTING	○	SANITARY SEWER MANHOLE	PROPOSED	○	STREET LIGHT
---	PROPERTY LINE	EXISTING	○	STORM DRAIN MANHOLE	PROPOSED	○	STREET LIGHT
---	FLOW LINE	EXISTING	○	POWER POLE	PROPOSED	○	STREET LIGHT
---	EXISTING SW, BC AND LIP	EXISTING	○	TRAFFIC SIGN	PROPOSED	○	STREET LIGHT
---	EXISTING FENCE	EXISTING	○	TRAFFIC SIGN	PROPOSED	○	STREET LIGHT
---	EXISTING WALL (SEE DRAWINGS FOR TYPE)	EXISTING	○	STREET LIGHT PULL BOX	PROPOSED	○	STREET LIGHT
---	EXISTING WATER LINE	EXISTING	○	DROP INLET	PROPOSED	○	STREET LIGHT
---	EXISTING STORM DRAIN	EXISTING	○	CABLE T.V. PULL BOX	PROPOSED	○	STREET LIGHT
---	EXISTING SANITARY SEWER	EXISTING	○	ELECTRIC VAULT/PULL BOX	PROPOSED	○	STREET LIGHT
---	EXISTING GAS LINE	EXISTING	○	ELECTRIC MANHOLE	PROPOSED	○	STREET LIGHT
---	EXISTING UNDERGROUND CATV LINE(S)	EXISTING	○	FOUND MONUMENT AS NOTED	PROPOSED	○	STREET LIGHT
---	EXISTING UNDERGROUND TELEPHONE LINE(S)	EXISTING	○	GAS VALVE	PROPOSED	○	STREET LIGHT
---	EXISTING UNDERGROUND ELECTRIC LINE(S)	EXISTING	○	GUY ANCHOR (POLE)	PROPOSED	○	STREET LIGHT
---	EXISTING TRAFFIC SIGNAL INTERCONNECT	EXISTING	○	PALM TREE	PROPOSED	○	STREET LIGHT
---	EXISTING TRAFFIC SIGNAL CONDUIT	EXISTING	○	PEDESTRIAN SIGNAL POLE	PROPOSED	○	STREET LIGHT
---	EXISTING STREET LIGHT CONDUIT	EXISTING	○	SHRUB	PROPOSED	○	STREET LIGHT
---	EXISTING OVERHEAD ELECTRIC	EXISTING	○	TELEPHONE MANHOLE	PROPOSED	○	STREET LIGHT
---		EXISTING	○	TELEPHONE PULL BOX	PROPOSED	○	STREET LIGHT
---		EXISTING	○	TRAFFIC SIGNAL POLE	PROPOSED	○	STREET LIGHT
---		EXISTING	○	TRAFFIC SIGNAL PULL BOX	PROPOSED	○	STREET LIGHT
---		EXISTING	○	TREE	PROPOSED	○	STREET LIGHT
---		EXISTING	○	VAULT	PROPOSED	○	STREET LIGHT

**LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES**

- LVVWD PROJECT #82415**
- 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 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 IMPROVEMENTS, 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 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.

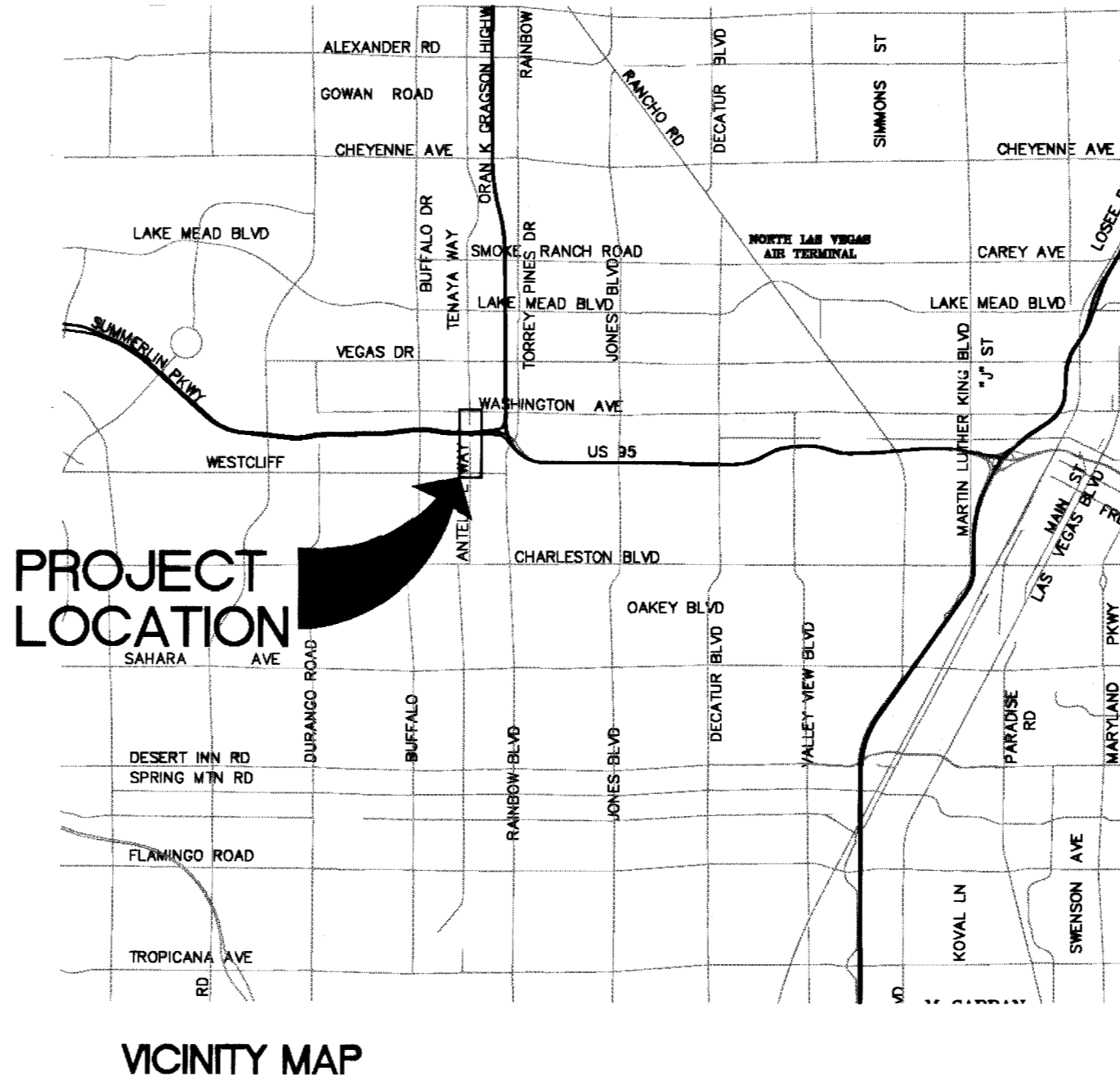
APPROVED BY  
  
 LAS VEGAS VALLEY WATER DISTRICT  
 DATE: 1-22-08

**BASIS OF BEARING**

NORTH AMERICAN DATUM-1983 (NAD'83), NEVADA COORDINATE SYSTEM- 1983 (NCS'83), EAST ZONE (2701) BASED UPON THE NATIONAL GEODETIC SURVEY - HIGH ACCURACY REFERENCE NETWORK (HARN), CCGIS 50 AND CCGIS 923.

**BENCHMARK**

RIVET AND PLATE IN TOP OF CURB @ NW CORNER OF TENAYA AND WESTCLIFF CLV # 0LV00 2754 ELEV. 742.7473 (M) 2,436.83 (U.S SURVEY FEET)



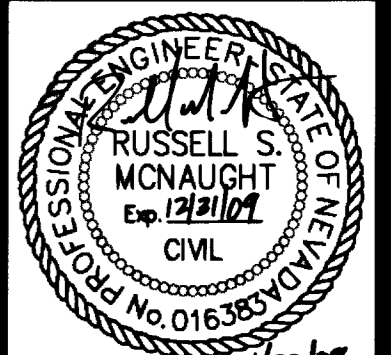
**SHEET INDEX**

CV-01	COVER
GN-01	GENERAL NOTES, ABBREVIATIONS, AND LEGEND
S-01	HORIZONTAL CONTROL PLAN
TY-01	TYPICAL SECTIONS
TY-02	TYPICAL SECTIONS
TY-03	TYPICAL SECTIONS
RM-01	REMOVAL PLANS--STA 10+00 TO STA 25+00
RM-02	REMOVAL PLANS--STA 25+00 TO 40+50
PP-01	PLAN AND PROFILE--STA 10+00 TO STA 16+00
PP-02	PLAN AND PROFILE--STA 16+00 TO STA 25+00
PP-03	PLAN AND PROFILE--STA 25+00 TO STA 34+00
PP-04	PLAN AND PROFILE--STA 34+00 TO STA 42+00
DT-01	INTERSECTION DETAIL--SAN MORITZ AND TRADING POST
DT-02	INTERSECTION DETAIL--TENAYA AND WASHINGTON
DT-03	ADA ADJUSTMENT ELEVATION DETAIL
DT-04	MISCELLANEOUS DETAILS
SD-01	STORM DRAIN PLAN AND PROFILE
SD-02	STORM DRAIN PLAN AND PROFILE
SD-03	STORM DRAIN PLAN AND PROFILE
SD-04	STORM DRAIN PLAN AND PROFILE
SD-05	STORM DRAIN LATERAL PROFILES
SD-06	DROP INLET DETAIL
SD-07	STORM DRAIN DETAILS
SD-08	NDOT MANHOLE DETAIL
SD-09	MANHOLE COVER DETAIL
SD-10	BEDDING DETAIL
SD-11	MODIFIED NDOT MANHOLE DETAIL
SD-12	NDOT HEADWALL DETAIL
SD-13	MODIFIED NDOT MANHOLE DETAIL
SS-01	SANITARY SEWER PLAN AND PROFILE
ST-01	SIGNING AND STRIPING PLANS--STA 10+00 TO STA 25+00
ST-02	SIGNING AND STRIPING PLANS--STA 25+00 TO STA 40+50
SE-01	SLURRY SEAL PLANS - WASHINGTON AVENUE
SE-02	SLURRY SEAL PLANS - TENAYA WAY
TS-01	TRAFFIC SIGNAL NOTES
TS-02	TRAFFIC SIGNAL PLANS--WESTCLIFF AND TENAYA WAY
TS-03	TRAFFIC SIGNAL PLANS--WASHINGTON AVE AND TENAYA WAY
LT-01	LIGHTING PLANS--STA 10+00 TO STA 25+00
LT-02	LIGHTING PLANS--STA 25+00 TO STA 39+00
LT-03	BRIDGE UNDER DECK LIGHTING
LT-04	CIRCUIT CAPACITY VERIFICATION
UT-01	UTILITY RELOCATIONS
B-01	GENERAL PLAN AND ELEVATION
B-02	TYPICAL SECTION, QUANTITIES AND GENERAL NOTES
B-03	GEOMETRICS (FOUNDATION PLAN)
B-04	FALSEWORK OPENINGS
B-05	ABUTMENT PLAN AND ELEVATION
B-06	ABUTMENT SECTIONS
B-07	WINGWALL DETAILS
B-08	ABUTMENT DETAILS
B-09	BEARINGS AND ABUTMENT DETAILS
B-10	PIER FOOTING AND COLUMN DETAILS
B-11	PIER COLUMN AND CAP DETAILS
B-12	PIER PLAN AND ELEVATION
B-13	DECK SECTION AND DETAILS
B-14	BOTTOM SLAB REINFORCING PLAN
B-15	GIRDER FRAMING PLAN
B-16	TOP SLAB REINFORCING PLAN
B-17	ABUTMENT DIAPHRAGM ELEVATION AND SECTION
B-18	ABUTMENT DIAPHRAGM DETAILS
B-19	SUPERSTRUCTURE DETAILS
B-20	PRESTRESSING DETAILS
B-21	CONCRETE PLACEMENT
B-22	APPROACH SLAB
B-23	APPROACH SLAB DETAILS
B-24	EXPANSION JOINT DETAILS
B-25	BRIDGE RAIL AND SIDEWALK DETAILS
B-26	BRIDGE RAIL AND SIDEWALK DETAILS
B-27	MIDSPAN DIAPHRAGM ACCESS HOLE AND VENT DETAILS
B-27A	MIDSPAN DIAPHRAGM UTILITY DETAILS
B-28	ASTHETICS TREATMENT DETAILS
B-29	ASTHETICS TREATMENT DETAILS
B-30	BAR BENDS-1
B-31	BAR BENDS-2
B-32	BILL OF MATERIALS-1
B-33	BILL OF MATERIALS-2
B-34	BILL OF MATERIALS-3
W-01	MSE WALL GENERAL NOTES
W-02	PLAN AND PROFILE RETAINING WALL NO.1
W-03	PLAN AND PROFILE RETAINING WALL NO.2
W-04	PLAN AND PROFILE RETAINING WALL NO.3
W-05	PLAN AND PROFILE RETAINING WALL NO.4
W-06	MSE WALL DETAILS
W-07	PLAN AND PROFILE RETAINING WALL NO.5
W-08	RETAINING WALL DETAILS
TR-01	TRAIL UNDERPASS
SH-01	LOG OF BORINGS-1
SH-02	LOG OF BORINGS-2
SH-03	LOG OF BORINGS-3
SH-04	LOG OF BORINGS-4
SH-05	LOG OF BORINGS-5
SH-06	LOG OF BORINGS-6
OH-01	OVERHEIGHT VEHICLE DETECTOR SYSTEM
OH-02	OVERHEIGHT VEHICLE DETECTOR SYSTEM
OH-03	OVERHEIGHT VEHICLE DETECTOR SYSTEM
OH-04	OVERHEIGHT VEHICLE DETECTOR SYSTEM

DEPARTMENT OF PUBLIC WORKS  
**ENGINEERING DESIGN SECTION**  
 CITY ENGINEER: JORGE CERVANTES, P.E.  
 PROGRAM MANAGER: MARK SORENSON, P.E.  
  
 DESIGNED BY: RSM  
 DRAWN BY: ESM  
 CHECKED BY: PSP  
 HDR Engineering, Inc.  
 HORIZONTAL SCALE: N/A  
 VERTICAL SCALE: N/A  
 DATE: 1/22/08

TENAYA WAY OVERPASS  
 AT SUMMERLIN PKWY  
**GENERAL NOTES, ABBREVIATIONS  
 AND LEGEND**

TITLE:  
 SHEET:



Sheet  
**GN-01**  
 2 of 96  
 DRAWING NO.  
**107Y4452**

