

1. ALL CONSTRUCTION AND 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, CITY OF LAS VEGAS". ANY OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY: THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.
2. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE DRAWINGS. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS ARE NOT SHOWN ON THE PLANS.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING 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 RECONSTRUCTED SATISFACTORY TO THE CITY ENGINEER OR UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. THE CONTRACTOR SHALL NOT BACKFILL ANY TRENCHES IN WHICH WATERLINES HAVE BEEN UNCOVERED UNTIL THE WATERLINES HAVE BEEN INSPECTED BY THE LAS VEGAS VALLEY WATER DISTRICT. THE WATER DISTRICT SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF CONSTRUCTION IN THE VICINITY OF WATER LINES.
5. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY ALTERATIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
6. TYPE V CEMENT SHALL BE USED FOR ALL WORK IDENTIFIED IN SECTION 613 OF THE STANDARD SPECIFICATIONS. STRUCTURAL CONCRETE SHALL BE MODIFIED CLASS A.
7. THE CONTRACTOR SHALL, AT HIS EXPENSE, LOCATE ALL OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER AND/OR TELEPHONE FACILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
8. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
9. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED TYPE CURB.
10. A.C. PAVEMENT TO BE 1/2" ABOVE LIP OF ALL GUTTERS AND VALLEY CUTTER AFTER COMPACTION.
11. APPLY FOG SEAL ONLY AFTER CORRECTIONS AND ADJUSTMENTS HAVE BEEN MADE.
12. CURB AND GUTTER WITH A GRADE OF LESS THAN FOUR TENTHS OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
13. WHEELCHAIR 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 AN INSPECTOR.
14. 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 SAID CONSTRUCTION. EXTENT OF TRANSITIONS TO BE DETERMINED BY THE ENGINEER AND AS SHOWN ON PLANS.
15. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY KLEINFELDER INC. OR PER THESE PLANS.
16. EXACT LOCATION OF ALL SAWCUT LINES MAY BE DETERMINED IN THE FIELD BY THE ENGINEER IF LOCATION OF PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITIONS REQUIRES LOCATION.
17. 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. 625.550.
18. ALL CONCRETE WORK SHALL CEASE IF SHRINKAGE CRACKS APPEAR. THE ENGINEER WILL BE NOTIFIED IMMEDIATELY AND NO CONCRETE WORK IS TO RESUME UNTIL THE CAUSE AND A REMEDY OF THE CRACKING HAS BEEN DETERMINED.

17

SECTION LINE WITH STATION

RIGHT-OF-WAY LINE

EXISTING/PROPOSED STREET LIGHT

EXISTING/PROPOSED DROP INLET

EXISTING/PROPOSED CURB & GUTTER

EXISTING/PROPOSED UNDERGROUND UTILITY
 S=SANITARY SEWER, W=WATER, T=TELEPHONE,
 G=GAS, P=POWER, SD=STORM DRAIN,
 E=ELECTRICAL, OHP=OVERHEAD POWER

EXISTING/PROPOSED MANHOLE

EXISTING WATER VALVE

EXISTING EDGE OF ASPHALT

EXISTING FENCE

EXISTING LOCK WALL

EXISTING/PROPOSED ELEVATION

(57.42) 57.42

PROPOSED WHEELCHAIR RAMP
 IN EXISTING CURB & GUTTER

CURVE DATA

EXISTING TELEPHONE AND/OR POWER POLE

PAVEMENT TRANSITION

EXISTING MAILBOX

EXISTING SIGN

EXISTING TRAFFIC SIGNAL/STREET LIGHT BOX

EXISTING WATER METER

SAWCUT LINE

DETAIL FLAG X = DETAIL REFERENCE
 8 = SHEET REFERENCE

1. NO WORK SHALL BEGIN ON THE WATER PLANS UNTIL THEY HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING APPROVAL OF THE PLANS, NOTICE MUST BE GIVEN TO THE LVVWD CUSTOMER SERVICE DEPARTMENT (870-4149), 48 HOURS PRIOR TO ACTUAL CONSTRUCTION AND 24 HOURS PRIOR TO AN INSPECTION.

2. CALL BEFORE YOU DIG 1-800-227-2600.

3. ALL WORK SHALL CONFORM TO LVVWD LATEST STANDARD PLATES, DRAWINGS AND SPECIFICATIONS.

4. ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE 3, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR ADDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA.

5. DISTRICT APPROVED SERVICE SADDLES OR TAPPED COLLARS WILL BE REQUIRED ON ALL 3/4" AND 1" SERVICE LATERALS. SERVICE SADDLES ONLY WILL BE PERMITTED ON 1 1/2" AND 2" SERVICE LATERALS. DOUBLE TAPPED COLLARS ARE NOT PERMITTED.

6. COPPER SERVICE LATERALS: ALL 3/4" TO 2" SERVICE LATERALS SHALL BE OF COPPER TUBING IN ACCORDANCE WITH THE DISTRICT'S SPECIFICATIONS AND STANDARD PLATES.

7. THE MAXIMUM ALLOWABLE JOINT DEFLECTION FOR ACP AND DUCTILE IRON PIPE SHALL BE AS FOLLOWS:

PIPE SIZES	ACP SLIP JOINT	DUCTILE IRON SLIP JOINT	DUCTILE IRON MECHANICAL JOINT
6 - 12 INCH	2.5"	3.5"	3.5"
14 - 16 INCH	2.5"	2.5"	2.5"
18 - 24 INCH	1.5"	1.5"	1.5"
	N/A	1.5"	1.5"

ON PVC PIPE, THE MAXIMUM OFFSET FOR A 2' LENGTH OF FACTORY BELLED PIPE SHALL BE 16 INCHES FOR 6" PIPE, 12 INCHES FOR 8" PIPE, AND 9 INCHES FOR 10" AND 12" PIPE.

IF THESE OFFSETS CONFLICT WITH THE PIPE MANUFACTURERS RECOMMENDATION, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

8. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.

9. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS AND VALLEY GUTTERS.

10. DETECTOR TAPE IS REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. 27 WHERE INDICATED, AND AS FOLLOWS:

A) OVER ALL MAINS NOT INSTALLED 6 FEET FROM BACK OF CURB.

B) OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAIN.

11. ALL WATER MAINS ARE TO BE PRESSURE TESTED AT 200 PSI FOR A CONTINUOUS TWO HOUR PERIOD, IN ACCORDANCE WITH DISTRICT STANDARDS.

12. ALL MAINS AND LATERALS SHALL BE DISINFECTED, FLUSHED AND AN ACCEPTABLE HEALTH SAMPLE OBTAINED, PRIOR TO THE CONNECTION OF THE WATER MAIN(S) AND/OR LATERAL(S) TO THE DISTRICTS' SYSTEM.

13. CONTRACTOR TO OBTAIN ALL METERS 2" AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.

LAS VEGAS VALLEY WATER DISTRICT DATE

AC.	ASPHALTIC CONCRETE
ADJ.	ADJUST
B.C.	BACK OF CURB
B.C.R.	BACK OF CURB RADIUS
B.O.F.	BOTTOM OF FOOTING
B.V.C.	BEGIN VERTICAL CURVE
B.W.	BACK OF WALK
C.C.	CLARK COUNTY
C & G.	CURB AND GUTTER
C.	CENTER LINE
CONC.	CONCRETE
CONST.	CONSTRUCT or CONSTRUCTION
D.I.	DROP INLET
DIA.	DIAMETER
DWG.	DRAWING
ELEV./EL.	ELEVATION
E.O.	EDGE OF PAVEMENT
E.V.C.	END VERTICAL CURVE
E.W.	EACH WAY
EX./EXIST.	EXISTING
F.G.	FINISHED GRADE
F.H.	FIRE HYDRANT
F.L.	FLOW LINE
G.B.	GRADE BREAK
G.V.	GATE VALVE
INV.	INVERT
L.	LENGTH
L.F.	LINEAR FEET
LT.	LEFT
MAX.	MAXIMUM
M.H.	MANHOLE
MIN.	MINIMUM
P.C.	POINT OF CURVATURE
P.I.	POINT OF INTERSECTION
P.R.C.	POINT OF REVERSE CURVATURE
PROP.	PROPOSED
P.T.	POINT OF TANGENCY
R.C.P.	REINFORCED CONCRETE PIPE
R.P.	RADIAL POINT
RT.	RIGHT
R/W	RIGHT-OF-WAY
S.D.	STORM DRAIN
STD.	STANDARD
S.W.	SIDEWALK
T.C.	TOP OF CURB
T.O.W.	TOP OF WALL
TRANS.	TRANSITION
TYP.	TYPICAL
V.C.	VERTICAL CURVE
V.G.	VALLEY GUTTER
W.M.	WATER METER

"UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS' CONSTRUCTION,
CLARK COUNTY AREA, NEVADA", DATED 1988.

DWG. No.	DESCRIPTION
220	TACK ON ISLAND CURB
413	DROP INLET TYPE "C"
517	VALVE BOX ADJUSTMENT

"STATE OF NEVADA STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION", DATED OCTOBER 1989.

DWG. No.	DESCRIPTION
R-8.1.6	BREAKAWAY CABLE TERMINAL
R-8.2.2	GALVANIZED GUARDRAIL ("W" - BEAM)

1. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE.
2. ALL CONSTRUCTION SIGNING, BARRICADING AND TRAFFIC DELINEATION SHALL CONFORM TO THE "NEVADA WORK ZONE TRAFFIC CONTROL HANDBOOK - 1985" AND TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES - 1988.
3. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CITY OF LAS VEGAS STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF LAS VEGAS STANDARDS.
5. IF A PROPOSED STREETLIGHT STANDARD IS FIELD LOCATED TO WITHIN FIVE (5) FEET OF ANY SIGN SHOWN HEREON TO BE MOUNTED ON A SIGN POST, THEN CHANGE SIGN MOUNTING TO ONE ON THE STREETLIGHT STANDARD.
6. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC INTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HEREUNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.

<u>TOTAL</u>	<u>SHEET No.</u>	<u>DESCRIPTION</u>
1	1	COVER SHEET
2	2	NOTES, INDEX, QUANTITIES, LEGEND and ABBREVIATIONS
3	3	PROJECT GEOMETRICS
4	4	DRAINAGE STRUCTURE PLAN and PROFILE STA. 75+00 to 65+00
5	5	DRAINAGE STRUCTURE PLAN and PROFILE STA. 65+00 to 55+00
6	6	RCB SECTION and DETAILS
7	7	INLET PLAN and SECTIONS
8	8	INLET DETAILS
9	9	MISCELLANEOUS DETAILS
10	10	TYPICAL SECTION - SLOTTED INLET DETAIL
11	11	VIRGIL STREET - STORM DRAIN

ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
109.01	CONSTRUCTION CONFLICTS and CONTINGENCIES	FA	1
200.01	MOBILIZATION and DEMOBILIZATION	LS	1
201.01	CLEARING and GRUBBING	LS	1
202.01	REMOVE MEDIAN CURB and GUTTER	LF	3,212
202.02	REMOVE INLET PROTECTION	LS	1
202.03	REMOVE DOUBLE SWING SECURITY GATE	EA	3
203.01	ROADWAY EXCAVATION	CY	245
206.01	OVER-EXCAVATION / BACKFILL	CY	1,578
302.01	TYPE II AGGREGATE BASE (ROADWAY)	CY	970
302.02	TYPE II AGGREGATE BASE (MEDIAN ISLAND)	CY	2,172
402.01	PLANTMIX BITUMINOUS SURFACE	TON	1,666
405.01	TACK COAT	TON	2
406.01	PRIME COAT	TON	5
407.01	SEAL COAT	TON	2
502.01	INLET STRUCTURE	LS	1
502.02	REINFORCED CONCRETE BOX CULVERT (TRIPLE 12' x 8')	LF	1,466
603.01	24" REINFORCED CONCRETE PIPE (CLASS III)	LF	42
603.02	30" REINFORCED CONCRETE PIPE (CLASS III)	LF	30
603.03	42" REINFORCED CONCRETE PIPE	LF	57
604.01	30 L.F.-18" GALVANIZED CMP SLOTTED PIPE INLET	EA	8
609.01	6' TYPE "C" DROP INLET	EA	1
609.02	32' TYPE "C" DROP INLET	EA	1
609.03	STORM DRAIN JUNCTION STRUCTURE	EA	1
609.04	24" RCB MANHOLE	EA	3
609.05	CONNECT EXISTING STORM DRAIN	EA	1
613.01	6" TACK ON CURB	LF	2,644
613.02	SPECIAL CURB	LF	280
616.01	6' CHAIN LINK FENCE	LF	40
616.02	SECURITY GATE (DOUBLE SWING)	EA	3
618.01	GALVANIZED GUARDRAIL	LF	300
618.02	BREAKAWAY CABLE TERMINAL	EA	1
624.01	TRAFFIC CONTROL	LS	1
628.01	PAVEMENT MARKERS-REFLECTIVE	EA	81
628.02	PAVEMENT MARKERS-NON-REFLECTIVE	EA	241
629.01	CONCRETE ENCASEMENT	EA	2
629.02	RELOCATE 10" WATER MAIN	LS	1

NORTH 89° 36' 56" WEST ALONG THE CENTERLINE OF WASHINGTON AVENUE BETWEEN THE CENTERLINES OF LAMB BOULEVARD AND PECOS ROAD ROTATED RIGHT 0° 02' 14" FROM THAT BEARING AS SHOWN ON FILE 35 OF PARCEL MAPS, PAGE 73 (N 89° 39' 10" W), AS RECORDED IN THE RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

CITY OF LAS VEGAS BENCHMARK # 06125A14
LOCATED ON THE WEST CURB RETURN ON
THE SOUTHWEST CORNER OF PECOS ROAD
AND OSAGE AVENUE.
ELEVATION = 1807.177

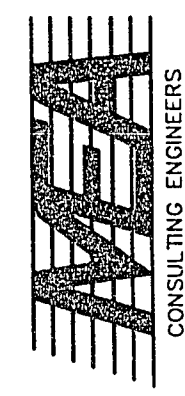
RECORD DRAWING

These Record Drawings have been prepared based on information provided by others. The Engineer has not verified the accuracy of such information and shall not be responsible for any errors or omissions which may be incorporated herein as a result.

[illegible]

DESIGNED: CK
 DRAWN: CK/PM
 CHECKED: LHC
 JOB NO. 393-91
 SCALE: ---
 HORIZ. ---
 VERT. ---

1055 EAST TROPICANA
SUITE 800
LAS VEGAS, NEVADA 89119
(702)798-1007



PROJECT:	CITY OF LAS VEGAS WASHINGTON AVENUE CONVEYANCE SYSTEM
DESCRIPTION:	NOTES, INDEX, QUANTITIES, I ETCEND and ABBREVIATIONS

SHEET

2

2 OF 12