LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

LVVWD PROJECT# 116679

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY 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 REQUESTED LVVWD INSPECTION.
   WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
2. ALL WORK SHALL CONFORM TO THE LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS AND TO THE 2010 EDITION OF UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERCEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2, 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.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERALS TWO (2") INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
9. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD'S DISTRIBUTION SYSTEM.
10. 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 PICK-UP.
11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
12. 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.
13. TELEPHONE "CALL BEFORE YOU DIG" AT 811 OR 1-800-227-2600

STORM WATER MANAGEMENT NOTES

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 ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY 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 UNFORSEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE 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 EXCEPTIONS MAY APPLY. REFER TO THE NEVADA STORM WATER GENERAL PERMIT FOR 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 RAIN EVENT 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 THE NEVADA STORM WATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.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.

CLARK COUNTY PUBLIC WORKS TRAFFIC NOTES

1. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HEREUNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER SITE OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
2. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY GROUND MOUNTED STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING COUNTY STREETS IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
3. ALL CONSTRUCTION SIGNING, BARRICADING AND PAVEMENT MARKINGS SHALL CONFORM TO THE "NEVADA WORK ZONE TRAFFIC CONTROL HANDBOOK-1988", AND TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.
4. 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 COUNTY TRAFFIC MANAGER.
5. THE DEVELOPER SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CLARK COUNTY AREA STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH CLARK COUNTY AREA STANDARDS. ALL SIGNS SHALL USE CLASS VI SHEETING.
6. IF A PROPOSED STREET LIGHT STANDARD IS FIELD LOCATED WITHIN (5) FEET OF ANY SIGN SHOW HEREON TO BE MOUNTED ON A SIGN POST, CHANGE SIGN MOUNTING TO ONE ON THE STREET LIGHT STANDARD.
7. PRIOR TO CONSTRUCTION, THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE CURRENT PLANNING DIVISION OF THE DEPARTMENT OF COMPREHENSIVE PLANNING.
8. ALL TRAFFIC SIGNAL POLE ASSEMBLIES, STEEL PEDESTAL FOR CABINETS, AND STREET LIGHT POLES SHALL BE GALVANIZED PER ASTM A.123.
9. ALL STREET LIGHTING INSTALLATIONS, EXCEPT NOTED ON THE STREET LIGHTING PLANS, SHALL CONFORM TO THE UNIFORM STANDARD DRAWING AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS, CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, LATEST EDITION OF EACH.
10. THE FOLLOWING CLARK COUNTY UNDERGROUND FACILITIES MAY BE LOCATED IN YOUR PROJECT AREA:STREET LIGHTING, TRAFFIC SIGNALS, AND FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T.) INTERCONNECT CABLE. YOU MUST CONTACT CLARK COUNTY TRAFFIC MANAGEMENT DIVISION, OPERATIONS UNIT AT 455-7511 FOR LOCATIONS AT LEAST 48 HOURS PRIOR TO WORKING IN THE AREA. CLARK COUNTY IS NOT A MEMBER OF "CALL BEFORE YOU DIG" (UNDERGROUND SERVICE ALERT), AND A CALL TO THAT ORGANIZATION DOES NOT RELIEVE YOU OF LIABILITY FOR CLARK COUNTY FACILITIES.
11. F.A.S.T. INTERCONNECT CABLE POLICY IS IN EFFECT. INTERCONNECT CABLE MUST BE MAINTAINED AT ALL TIMES. DEVELOPER/CONTRACTOR SHALL PROVIDE TEMPORARY OVERHEAD INTERCONNECT CABLE WHILE PERMANENT CABLE IS BEING RELOCATED. TEMPORARY AERIAL INSTALLATION MUST BE ACCEPTABLE TO THE COUNTY TRAFFIC MANAGER AND TO F.A.S.T. ANY DAMAGE TO THIS CABLE IS DEEMED IN EMERGENCY BY F.A.S.T., CITY OF LAS VEGAS, CLARK COUNTY AND NDOT AND MUST BE REPAIRED IMMEDIATELY TO F.A.S.T. ACCEPTANCE. $2,500 PER DAY DAMAGES MAY BE ASSESSED AFTER 24 HOURS HAS ELAPSED FROM TIME OF BREAK OR DAMAGE.
12. ALL NEW OR REPLACEMENT TRAFFIC SIGNAL LOOPS SHALL BE INSTALLED USING CABLE-IN-DUCT WIRING, SHALL HAVE INDEPENDENT LEAD-IN WIRES FOR EACH LOOP FROM THE CONTROLLER TO THE PULL-BOX, AND EACH LEAD-IN SHALL BE INDIVIDUALLY TAGGED.
13. TRAFFIC SIGNAL PEDESTRIAN HEADS SHALL BE THE L.E.D. TYPE.
14. ELECTRICAL POWER SERVICE POINT LOCATION(S) FOR STREET LIGHTING AND TRAFFIC SIGNALS MUST BE INDICATED ON THE PLANS. IF CONNECTING TO AN EXISTING CIRCUIT, INDICATE LOCATION OF EXISTING SERVICE POINT FOR EACH CIRCUIT.
15. WHEN STREETLIGHTS ARE TO BE CONNECTED TO AND EXISTING CIRCUIT, THE ENGINEER MUST CERTIFY THAT THE EXISTING CIRCUIT IS CAPABLE OF HANDLING THE ADDITIONAL CIRCUIT LOAD.
16. CLARK COUNTY RESERVES THE RIGHT TO REJECT STREET LIGHT AND TRAFFIC SIGNAL POLES AND ASSEMBLIES WHICH HAVE A "STRIPED" APPEARANCE.
17. TWO WEEKS PRIOR TO BEGINNING OF CONSTRUCTION, MODIFICATION, OR RELOCATION OF ANY TRAFFIC SIGNAL SIGNAL SYSTEM, WRITTEN NOTICE SHALL BE SUBMITTED TO THE CLARK COUNTY TRAFFIC MANAGEMENT DIVISION, OF THE DATE THAT WORK WILL BEGIN.
18. THREE (3) NORMAL WORKING DAYS PRIOR TO TURN-ON OR COMPLETION OF MODIFICATION(S) TO A TRAFFIC SIGNAL SYSTEM, WRITTEN NOTICE SHALL BE SUBMITTED TO THE CLARK COUNTY TRAFFIC MANAGEMENT DIVISION THAT THE WORK IS BEING COMPLETED AND THE PROPOSED DATE OF COMPLETION.

2012-250

DEPARTMENT OF PUBLIC WORKS NOTES

1. INSPECTIONS ARE REQUIRED. CALL 24 HOURS IN ADVANCE, 455-4610. YOUR PERMIT, APPROVED PLANS, AND BARRICADE PLANS FOR THIS WORK MUST BE ON THE JOB SITE AT ALL TIMES.
2. EXACT LOCATION OF ALL SAW-CUT LINES SHALL BE DETERMINED IN THE FIELD BY A CLARK COUNTY INSPECTOR.
3. CURB AND GUTTER WITH A GRADE OF LESS THAN ½ 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.
4. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF (½") INCH ABOVE THE LIP OF THE GUTTER (INCLUDING OPEN GRADE).
5. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS AND STANDARD DRAWINGS CLARK COUNTY AREA NEVADA AND CLARK COUNTY SUPPLEMENT TO UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS, LATEST REVISION.
6. PRIVATE STREETS, CURB AND GUTTER AND VALLEY GUTTERS REFLECTED ON THESE PLANS ARE TO BE INSPECTED BY A CLARK COUNTY INSPECTOR.
7. WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS SHALL BE DETERMINED IN THE FIELD BY A CLARK COUNTY INSPECTOR.
8. PROPER SIGNS, BARRIERS, BARRICADES AND LIGHTS SHALL BE PLACE AND MAINTAINED IN ACCORDANCE WITH THE LATEST "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS". TRAFFIC, SCHOOL, OR STREET SIGNS OF ANY KIND ARE NOT TO BE MOVED FOR ANY REASON WITHOUT FIRST COORDINATING WITH THE DEPARTMENT OF PUBLIC WORKS INSPECTOR AT 455-4610.
9. THIS PLAN DOES NOT AUTHORIZE CLOSURE OF ANY ROAD OR STREET.
10. NO OPEN TRENCH SHALL BE ALLOWED ACROSS ANY STREET OR WITHIN TEN (10') OF ANY TRAVEL-WAY, EXCEPT WHEN WORK IS IN ACTUAL PROGRESS. AREAS COVERED BY ACCEPTABLE STEEL PLATE ARE NOT TO BE CONSTRUED AS A TRENCH. NO OPEN TRENCH IS PERMITTED IN EXCESS OF 500 FEET OR LENGTH NECESSARY TO ACCOMMODATE PIPE INSTALLATION IN A SINGLE DAY, WHICH EVER IS GREATER. ALL TRENCH CROSSINGS AND BACKFILL SHALL MEET THE STANDARD SPECIFICATION UNLESS OTHERWISE STATED.
11. A TEMPORARY PATCH IS TO BE IN PLACE AT THE END OF EACH WORK DAY WHERE THE BACKFILL IN THE TRENCH HAS BEEN COMPLETED AND PRIOR TO OPENING THE WORK AREA BACK TO TRAFFIC AND IS TO BE MAINTAINED BY THE PERMITEE. A PERMANENT PATCH IS TO BE IN PLACE WITHIN THIRTY (30) DAYS AFTER THE INSTALLATION OF THE TEMPORARY PATCH.
12. COMPACTION TESTS ARE REQUIRED.

GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITION BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND OF INGRESS AND EGRESS TO SAID CONSTRUCTION. EXTENT OF TRANSITIONS TO BE DETERMINED BY THE COUNTY ENGINEER.
2. LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM INFORMATION RECEIVED FROM THE APPLICABLE UTILITY COMPANIES. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES OR STRUCTURES NOT SHOWN, OR NOT IN THE LOCATION SHOWN ON THE DRAWINGS. CONTRACTOR TO VERIFY THE EXACT LOCATION OF UTILITIES PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR'S RESPONSIBILITY REGARDING UTILITIES SHALL BE AS REQUIRED UNDER SECTION 107.17 OF THE UNIFORM STANDARD SPECIFICATIONS FOR CLARK COUNTY AREA, NEVADA AND AS PROVIDED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING OVER OR NEAR THE EXISTING GAS MAINS.
3. ALL WORK AUTHORIZED BY THIS PLAN SHALL CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS AND STANDARD DRAWINGS CLARK COUNTY AREA, NEVADA" AND CLARK COUNTY SUPPLEMENT TO UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS", LATEST REVISION.
4. 48 HOURS PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT:

CLARK COUNTY SANITATION DISTRICT	458-1180
LAS VEGAS VALLEY WATER DISTRICT	870-2011
NV ENERGY	1-800-227-2600
CENTURYLINK	1-800-227-2600
SOUTHWEST GAS CORPORATION	365-2236
COX COMMUNICATIONS LAS VEGAS, INC.	384-8084

5. 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 ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
6. ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "NEVADA WORK ZONE TRAFFIC CONTROL HANDBOOK, 1988", PUBLISHED BY THE STATE OF NEVADA, DEPARTMENT OF HIGHWAYS.
7. ALL CONCRETE FOR THIS PROJECT SHALL BE TYPE V SIX SACK MIX, 4,500 PSI.

LEGEND

XXX / XX	PROPOSED ELEVATION
(XXX) / XX	EXISTING ELEVATION
[XXX] / XX	FUTURE ELEVATION
XXXX	EXISTING CONTOUR
	BLOCK WALL
	DIRECTION OF FLOW
1 OR 1	CONSTRUCTION KEY NOTE
	RIGHT-OF-WAY
	STREET CENTERLINE
	SWALE
0.50%	PROPOSED GRADE
(0.50%)	EXISTING GRADE
[0.50%]	FUTURE GRADE
	EXISTING EDGE OF PAVING
	PROPOSED EDGE OF PAVING
G/B	GRADE BREAK
	EXISTING SANITARY SEWER
	EXISTING WATER MAIN
	PROPOSED SANITARY SEWER
	PROPOSED WATER MAIN
	EXISTING FIRE HYDRANT
	EXISTING VALVE
	EXISTING MANHOLE
	PROPOSED FIRE HYDRANT
	PROPOSED VALVE
	PROPOSED SEWER MANHOLE
	CLEANOUT

ABBREVIATIONS

AC	ASPHALTIC CONCRETE	NTS	NOT TO SCALE
BOC	BACK OF CURB	OC	ON CENTER
BCR	BACK OF CURB RETURN	PC	POINT OF CURVATURE
BLDG	BUILDING	PCC	POINT OF COMPOUND CURVATURE
BO	BLOW OFF		
BSW	BACK OF SIDEWALK	℄	PROPERTY LINE
℄	CENTERLINE	PP	POWER POLE
C.C.A.U.S.D.	CLARK COUNTY AREA UNIFORM STD. DRAWING	PT	POINT OF TANGENCY
		PVC	POLYVINYL CHLORIDE PIPE
CO	CLEAN OUT	RCB	REINFORCED CONC. BOX
CONC	CONCRETE	RCP	REINFORCED CONC. PIPE
DIA	DIAMETER	R.O.W.	RIGHT-OF-WAY
D.I.	DROP INLET	SW	SIDEWALK
D.I.P.	DUCTILE IRON PIPE	STD	STANDARD
DOM.	DOMESTIC	STA	STATION
EA	EACH	SD	STORM DRAIN LINE
EP OR EOP	EDGE OF PAVEMENT	SS	SANITARY SEWER LINE
EXIST	EXISTING	D.C.S.W.C.S.	DESIGN AND CONSTRUCTION STANDARDS FOR WASTE WATER COLLECTION SYSTEMS
FC	FACE OF CURB		
FF	FINISHED FLOOR ELEV		
FG	FINISHED GROUND ELEV	T	TELEPHONE LINE
FH	FIRE HYDRANT	TBC	TOP BACK OF CURB
FL	FLOW LINE	TE	TRASH ENCLOSURE
FS	FINISHED SURFACE	TF	TOP OF FOOTING
G OR GAS	GAS LINE	TOP	TOP OF PIPE
GB	GRADE BREAK	TC	TOP OF CURB
GM	GAS METER	TW	TOP OF WALL
GR	DRAIN GRATE	(TYP)	TYPICAL
GV	GATE VALVE	VG	VALLEY GUTTER
H	HEIGHT	U.D.A.C.S.	UNIFORM DESIGN & CONSTRUCTION STD. FOR WATER DISTRIBUTION SYSTEMS
HP	HIGH POINT		
INV	INVERT		
(IRR)	IRRIGATION	W/	WITH
L	LENGTH	WL	WATER LINE
LF	LINEAR FEET	WM	WATER METER
LP	LOW POINT	WV	WATER VALVE
MAX	MAXIMUM		
MH	MANHOLE		
MIN	MINIMUM		
MOD	MODIFIED		

ESTIMATE OF QUANTITIES FOR SHAUMBER ROAD

STREET	(PUBLIC)
AC PAVEMENT	15,276 SY
TYPE II AGGREGATE BASE	1910 CY
AC REMOVAL	5032 SY
CONCRETE SIDEWALK	6220 SF
"L" TYPE CURB AND GUTTER	1244 LF

WATER	(PUBLIC)
24" D.I.P. WATERLINE	6532 LF
42" STEEL CASING	632 LF
24" RESILIENT WEDGE GATE VALVE	5 EA
24x45° BEND	4 EA
24"x22.5° BEND	4 EA
24"x11.25° BEND	5 EA
FIRE HYDRANT ASSEMBLY	2 EA
30"x24" ECCENTRIC REDUCER	1 EA
8" RPDA	1 EA
2" RPPA	2 EA
2" METER	2 EA
12" PVC	1322 LF
8" PVC	13 LF
6"PVC	26 LF
6" BLOW-OFF ASSEMBLY	6 EA
4" AVAR ASSEMBLY	5 EA
12"x8" TEE	1 EA
24" CAP	1 EA
2" BLOW OFF	1 EA
12"x22.5° BEND	3 EA
12"x12" TEE	1 EA
12" GATE VALVE	3 EA
12"x6" TEE	2 EA

STORM DRAIN	(PUBLIC)
18" CLASS III RCP	275 LF
24" CLASS III RCP	1330 LF
42" CLASS III RCP	240 LF
48" TYPE I MANHOLE	2 EA
60" TYPE I MANHOLE	2 EA
60" TYPE III MANHOLE	2 EA
5' MOD TYPE "CM" INLET	3 EA
7.5' MOD TYPE "CM" INLET	1 EA
13.75' MOD TYPE "CM" INLET	1 EA
24" RCP END SECTION	6 EA
42" RCP END SECTION	1 EA
CULVERT HEADWALL	3 EA

STREET LIGHTS	(PUBLIC)
150 WATT HPS STREET LIGHTS	8 EA
CONDUIT	1225 LF

MISC.	(PUBLIC)
TYPE "A" BARRIER RAIL	257 LF

ESTIMATE OF QUANTITIES FOR HAMMER/ALPINE RIDGE

STREET	(PUBLIC)
AC PAVEMENT	11,052 SY
TYPE II AGGREGATE BASE	1168 CY
CONCRETE SIDEWALK	15,068 SF
"L" TYPE CURB AND GUTTER	3156 LF

WATER	(PUBLIC)
FIRE HYDRANT ASSEMBLY	2 EA
12" PVC (C900)	450 LF
8" PVC (C900)	2006 LF
18" CASING	44 LF
12"x8" REDUCER	1 EA
8"x8" TEE	1 EA
8" GATE VALVE	4 EA
8"x6" TEE	2 EA
8"x11.25° BEND	8 EA
8"x45° BEND	4 EA
8" RPDA	1 EA

STREET LIGHTS	(PUBLIC)
150 WATT HPS STREET LIGHTS	14 EA
CONDUIT	2425 LF

STORM DRAIN	(PUBLIC)
18" CLASS III RCP	122 LF
24" CLASS V RCP	69 LF
36" CLASS III RCP	962 LF
36" CLASS V RCP	21 LF
38"x60" CLASS V RCP	414 LF
42" CLASS III RCP	898 LF
48" CLASS III RCP	268 LF
48" TYPE II MANHOLE	2 EA
60" TYPE I MANHOLE	2 EA
60" TYPE III MANHOLE	10 EA
5' MOD TYPE "CM" INLET	1 EA
12.5' MOD TYPE "CM" INLET	2 EA
10' MOD TYPE "CM" INLET	1 EA
27.5' MOD TYPE "CM" INLET	1 EA
CULVERT HEADWALL	1 EA

SEWER	(PUBLIC)
MANHOLE	7 EA
24" PVC	1231 LF

ESTIMATE OF QUANTITIES FOR WASHBURN, EULA AND FISHER

STREET	(PUBLIC)
AC PAVEMENT	13584 SY
TYPE II AGGREGATE BASE	1589 CY
CONCRETE SIDEWALK	12150 SF
"L" TYPE CURB AND GUTTER	2430 LF

WATER	(PUBLIC)
FIRE HYDRANT ASSEMBLY	2 EA
12" PVC (C900)	1407 LF
6" PVC (C900)	28 LF
2" MANUAL BLOWOFF ASSEMBLY	1 EA
2" METER	1 EA
12"x8" TEE	1 EA
12" CAP	2 EA
2" BLOW OFF	2 EA
12" GATE VALVE	4 EA
12"x8" TEE	2 EA
8" GATE VALVE	1 EA
2" RPPA	1 EA

STREET LIGHTS	(PUBLIC)
150 WATT HPS STREET LIGHTS	8 EA
CONDUIT	1275 LF

STORM DRAIN	(PUBLIC)
18" CLASS III RCP	51 LF
24" CLASS III RCP	1388 LF
36" CLASS III RCP	43 LF
60" TYPE I MANHOLE	7 EA
5' MOD TYPE "CM" INLET	1 EA
7.5' MOD TYPE "CM" INLET	1 EA
NDOT TYPE 2 INLET	1 EA

SEWER	(PUBLIC)
8" PVC	1354 LF
12" PVC	701 LF
MANHOLE	18 EA
STEEL CASING	632 LF
15" PVC	621 LF
24" C905 PVC	1070 LF
24" ULTRA CORR PVC	1807 LF

MISC.	(PUBLIC)
TYPE "A" BARRIER RAIL	900 LF

ESTIMATE OF QUANTITIES FOR ONSITE DEVELOPMENT

STREET	(PRIVATE)
AC PAVEMENT	119003 SY
2" AC PAVEMENT	20445 SY
TYPE II AGGREGATE BASE	16112 CY
"A" TYPE CURB	10496 LF
SERVICE YARD CONCRETE	18320 SF
CONCRETE SIDEWALK	7742 SF
"L" TYPE CURB AND GUTTER	4108 LF

WATER	(PRIVATE)
FIRE HYDRANT ASSEMBLY	3 EA
8" PVC (C900)	2845 LF
6" PVC (C900)	53 LF
8"x6" TEE	2 EA
8"x8" TEE	2 EA
8"x90° ELBOW	3 EA
8"x45° ELBOW	4 EA
8" GATE VALVE	6 EA
6" GATE VALVE	3 EA
2" METER	1 EA
2" RPPA	1 EA
2" PVC (WATER QUALITY)	401 LF
4" PVC (C900)	413 LF

STORM DRAIN	
4" RCP	413 LF
12" CLASS III RCP	185 LF
18" CLASS III RCP	980 LF
24" CLASS III RCP	370 LF
30" CLASS III RCP	14 LF
36" CLASS III RCP	850 LF
48" TYPE I MANHOLE	5 EA
48" TYPE II MANHOLE	2 EA
60" TYPE I MANHOLE	3 EA
60" TYPE III MANHOLE	4 EA
5' MOD TYPE "CM" INLET	1 EA
10' MOD TYPE "CM" INLET	1 EA
11.25' MOD TYPE "CM" INLET	2 EA
24"x24" CATCH BASIN	2 EA
48"x48" CATCH BASIN	1 EA
JENSEN #200 CATCH BASIN	1 EA

SEWER	
4" PVC	42 LF
6" PVC	111 LF
8" PVC	2089 LF
MANHOLE	9 EA

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

PROJECT NO. 116679 DATE 12/01/11

KGA ARCHITECTURE
9075 West Diablo Drive, Third Floor
Las Vegas, Nevada 89148
702.367.6900
1701 Directors Boulevard, Suite 770
Austin, Texas 78744
512.441.8200
www.KGAarchitecture.com
LAS VEGAS AUSTIN

H41249

REVISIONS

REV	DESCRIPTION	DATE	BY

DISCLAIMER NOTE

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

Call before you Dig
Avoid cutting underground utility lines in a county.
Call 811 or 1-800-227-2600 (CLARK COUNTY TRAFFIC OPERATIONS 1-702-455-7544)

Avoid overhead power line contact
Call before you OVERHEAD
1-702-227-2929
NEVADA POWER EMPLOYMENT AND SAFETY SERVICES DEPARTMENT

CALL BEFORE YOU DIG
Call before you Underground
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CCSD PROJECT NO.	15-49
CCSD REVIEW	
APPROVED BY	
DATE	
DATE	OCTOBER 31, 2011
DRAWN BY	
CHECKED BY	
SUBMITTAL	—
KA PROJECT NO.	005-016

CLARK COUNTY SCHOOL DISTRICT
DESIGN MANAGEMENT / PLANNING AND DESIGN
4170 MCLEOD DRIVE LAS VEGAS, NEVADA 89121

PROJECT: CCSD NORTHWEST SATELLITE TRANSPORTATION FACILITY

DRAWING TITLE: GENERAL NOTES

SHEET NO. C1.02
SHEET 3 OF 83

CLV #41249 715-183
HTE #11-19927