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 CITY ENGINEER.
2. LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM INFORMATION RECEIVED FROM THE APPLICABLE UTILITY CO'S. 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 EXISTING GAS MAINS.
3. ALL CONSTRUCTION AND MATERIALS FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF DESIGN AND CONSTRUCTION STANDARDS OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFFSITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, 1986, EXCEPT AS MODIFIED BY THE CONTRACT DRAWINGS AND SPECIFICATIONS OR AS REQUIRED ADDITIONALLY BY THE "UNIFORM STANDARD SPECIFICATIONS AND DRAWINGS"; CITY OF LAS VEGAS, NEVADA (LATEST EDITION).
4. 48 HOURS PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT:

CALL BEFORE YOU DIG	PHONE - 1-800-227-2600
LAS VEGAS VALLEY WATER DISTRICT	PHONE - 870-2011
NEVADA POWER COMPANY	PHONE - 1-800-227-2600
CENTRAL TELEPHONE COMPANY	PHONE - 1-800-227-2600
SOUTHWEST GAS CORPORATION	PHONE - 876-7220
DIMENSION CABLE	PHONE - 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, 1985", PUBLISHED BY THE STATE OF NEVADA, DEPARTMENT OF HIGHWAYS, EXCEPT AS OTHERWISE PROVIDED IN THE CONTRACT SPECIFICATIONS OR REQUIRED BY THE ENGINEER.
7. THE QUANTITIES GIVEN IN THE DRAWINGS ARE APPROXIMATE ONLY, BEING GIVEN AS A BASIS FOR THE COMPARISON OF BIDS, AND THE OWNER DOES NOT, EXPRESSLY OR BY IMPLICATION, AGREE THAT THE ACTUAL AMOUNT OF WORK WILL CORRESPOND THEREWITH, BUT RESERVES THE RIGHT TO MAKE SUCH ALTERATIONS, DEVIATIONS, ADDITIONS TO OR OMISSIONS FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE RIGHT TO INCREASE OR DECREASE THE QUANTITY OF ANY ITEM OR PORTION OF THE WORK, AS MAY BE DEEMED BY THE OWNER TO BE NECESSARY. ANY SUCH CHANGES WILL BE SET FORTH IN A CONTRACT CHANGE ORDER WHICH WILL SPECIFY, IN ADDITION TO THE WORK TO BE DONE IN CONNECTION WITH THE CHANGE MADE, ADJUSTMENT OF CONTRACT TIME, IF ANY, AND THE BASIS OF COMPENSATION FOR SUCH WORK. A CONTRACT CHANGE ORDER WILL NOT BECOME EFFECTIVE UNTIL APPROVED BY THE OWNER.
8. EXACT LOCATION OF ALL SAWCUTS IN MOJAVE ROAD, IF NECESSARY, ARE TO BE DETERMINED IN THE FIELD BY THE CITY OF LAS VEGAS INSPECTOR.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE REMOVAL OR RELOCATION OF POWER POLES, TELEPHONE POLES, JOINTLY-OWNED POLES AND APPURTENANCES WHICH INTERFERE WITH IMPROVEMENTS REQUIRED TO BE CONSTRUCTED UNDER THIS CONTRACT, WITH THE APPROPRIATE UTILITY COMPANIES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF ALL TELEPHONE COMPANY MANHOLES TO THE FINAL FINISH GRADES AS SHOWN ON THE CONTRACT DRAWINGS.
11. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
12. ALL SITE GRADING WORK SHALL BE IN STRICT ACCORDANCE WITH THE "SOIL AND FOUNDATION INVESTIGATION, FIRE TRAINING CENTER ADDITIONS MOJAVE ROAD, NORTH OF BONANZA ROAD, LAS VEGAS, NEVADA" DATED JANUARY 15, 1988 PREPARED BY CONVERSE CONSULTANTS SOUTHWEST, INC. ALL WORK SHALL BE PERFORMED UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL SOILS ENGINEER.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS TESTING FOR BOTH "ONSITE AND OFFSITE IMPROVEMENTS", COMPACTION TESTS, DENSITY TESTS AND SHALL BEAR ALL COSTS THEREOF. THIS SHALL INCLUDE AT LEAST TWO (2) COMPACTION AND TWO (2) DENSITY TEST IN CRAIG ROAD. THE CONTRACTOR SHALL SUBMIT COPIES OF ALL TESTS PERFORMED TO THE ENGINEER FOR REVIEW OF COMPLIANCE TO THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFFSITE IMPROVEMENTS, CLARK COUNTY, NEVADA, 1986. THIS DOES NOT INCLUDE ADDITIONAL TESTING REQUIREMENTS FOR COMPLIANCE WITH SECTION 306 OF THE CLARK COUNTY UNIFORM BUILDING CODE, LATEST EDITION.
14. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED IN EACH QUARDRANT OF AN INTERSECTION PER CLARK COUNTY STANDARD DRAWING 237. EXACT LOCATION OF THE RAMPS SHALL BE DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS INSPECTOR.
15. STANDARD STREET SECTIONS PER STANDARD DRAWINGS UNLESS OTHERWISE NOTED.
16. CURB AND GUTTER WITH A GRADE OF LESS THAN FOUR TENTHS OF ONE PERCENT (0.40%) SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
17. CHISEL "S" FOR SEWER AND "G" FOR GAS WHERE THESE LINES PASS UNDER THE CURB.
18. CONSTRUCTION SURVEY: GRADES ARE GIVEN FROM TOP OF STAKES OF NAILS. THE CONTRACTORS ARE CAUTIONED TO OBSERVE THE FOLLOWING RULES IN USING THE GRADE STAKES GIVEN BY THIS OFFICE. THREE (3) CONSECUTIVE POINTS THAT ARE SHOWN TO BE ON THE SAME RATE OF SLOPE MUST BE USED IN COMMON IN ORDER THAT ANY VARIATION OUT OF A PERFECT STRAIGHT GRADE MAY BE DETECTED IN CASE ANY SUCH DISCREPANCY IS FOUND, THE SAME MUST BE REPORTED, OTHERWISE THIS OFFICE WILL NOT BE RESPONSIBLE FOR ANY ERROR IN THE GRADE OF THE FINISHED WORK.
19. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS. ANY ALTERATIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
20. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE DESIGNED FOR A 5.5 SACK MIX WITH A MAXIMUM WATER/CEMENT RATIO OF 0.45 (OR AS DESIGNED BY THE SOILS ENGINEER). MIX DESIGN TO BE APPROVED BY THE QUALITY CONTROL DIVISION PRIOR TO USE ON THE PROJECT.

SEWER NOTES

1. SEWER SERVICES SHALL COMPLY WITH THE WESTERN PLUMBING CODE AS TO SEPARATION DISTANCE.
2. ALL BUILDINGS TO BE SERVED INDIVIDUALLY AS PER SECTION 313 OF THE UNIFORM PLUMBING CODE.
3. CONCRETE COLLARS REQUIRED AROUND WATER VALVES AND MANHOLE COVERS IN PAVED AREAS.

STREET LIGHTING NOTE

ALL STREET LIGHTING INSTALLATIONS SHALL CONFORM TO THE LATEST EDITION OF THE STANDARD DETAILS AND SPECIFICATIONS OF THE CITY OF LAS VEGAS, AND SHALL ALSO CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF OFF-SITE IMPROVEMENTS", CLARK COUNTY, NEVADA AREA, (LATEST EDITION), UNLESS OTHERWISE NOTED.

STREET NOTES

1. A.C. PAVEMENT TO BE 1/2" ABOVE LIP OF GUTTER AFTER COMPACTION.
2. SUBGRADE FOR TYPE 1 UNDER CURB AND GUTTER AND UNDER A.C. TO BE CONTINUOUS.
3. FOG SEAL TO BE APPLIED AFTER FINAL CORRECTIONS AND ADJUSTMENTS HAVE BEEN MADE.
4. THE MAXIMUM GRADE BREAK OCCURRING IN THE CROSS SECTION SHALL BE 2% AND SHALL FALL BETWEEN DRIVING LANES OR BETWEEN A DRIVING LANE AND A PARKING LANE.
5. IN PLACE NATIVE MATERIAL (NON-CEMENTED) MAY BE SUBSTITUTED FOR TYPE 1 AGGREGATE BASE PROVIDED THE FOLLOWING CONDITION IS MET· ALL OTHER REQUIREMENTS ARE THE SAME AS FOR TYPE 1.
   (a) THE NATIVE SOIL FALLS WITHIN THE GRADATION TOLERANCES OF TYPE 1 OR TYPE 2 OR IS CLASSIFIED AS GP OR GW BY THE UNIFIED CLASSIFICATION SYSTEM (ALL MATERIAL TO PASS A 3" SIEVE).
6. IN PLACE NATIVE MATERIAL (CEMENTED) MAY BE SUBSTITUTED FOR TYPE 1 AGGREGATE BASE PROVIDED THAT THE ENTIRE RIGHT OF WAY IS SUFFICIENTLY BALL BROKEN (BACK OF SIDEWALK TO BACK OF SIDEWALK). THE BALL BROKEN AREAS SHALL BE LEVELED AND COMPACTED AS PER SPECIFICATION.
7. OWNER AGREES THAT IF THE EXISTING MATERIAL DOES NOT CONFORM TO STANDARD SPECIFICATIONS FOR TYPE 1 GRAVEL BASE THEN MATERIAL MEETING THOSE SPECIFICATIONS WILL BE IMPORTED.

QUANTITIES

PUBLIC - OFFSITE

Item	Quantity
3-3/4" AC pavement with 4" type 2 & 9" type 1 gravel base	2480 SY
"L" curb & gutter	386 LF
5' concrete sidewalk	1360 SF
Commercial driveways	575 SF
4" Wide yellow paint stripe	360 SF
Water	
30" x 8" Keppel tap	1 EA
8" ACP	855 LF
8" Detector check assembly & vault (by Contractor)	1 EA
2" Water service with meter & meter box	1 EA
8" Gate valve	3 EA
Sewer	
10" PVC	1425 LF
4' Diameter manhole	5 EA
Concrete encasement	40 LF
Electrical	
250 W. HPS street light	4 EA
1-1/4" PVC street light conduit with wire	520 LF
Drainage	
24" CMP	190 LF
Earthwork	
Cut	1820 CY
Fill	170 CY
Excess	1650 CY

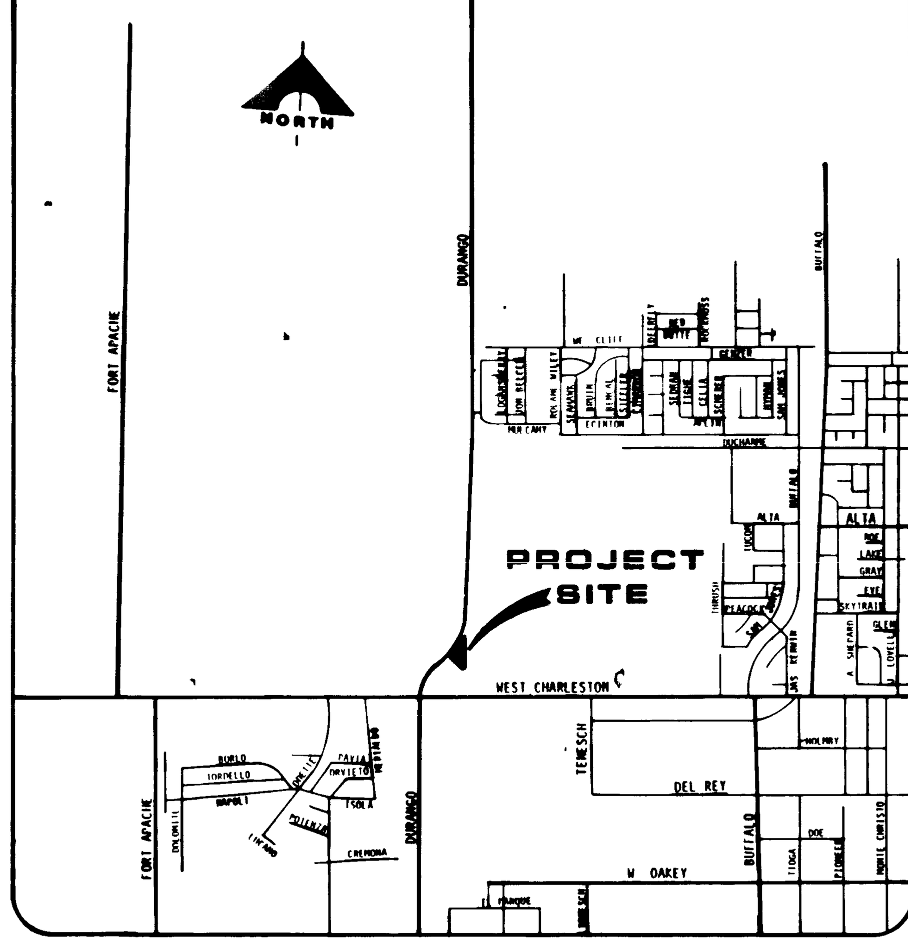
The quantities shown for earthwork are geometric only and do not take into account shrinkage or subsidence. All work shall be in strict accordance with the "Soil and Foundation Investigation, Two Fire Stations: Nos 2 and 42, Durango Road, North of West Charleston Boulevard, Cheyenne Avenue, West of Teneya Way, Las Vegas, Nevada" prepared by Converse Consultants Southwest, Inc. dated November 3, 1987.

PRIVATE - ONSITE

Item	Quantity
Parking Lot	
2-1/2" AC pavement with 5" type 2 gravel base	9920 SY
6" Concrete pavement	4550 SF
"A" Curb	1030 LF
"L" Curb & gutter	300 LF
3' Curb cut	1 EA
3' Valley gutter	20 LF
Dumped riprap	25 SF
Guard posts	8 EA
CMU block wall	690 LF
Trash enclosure	1 EA
Water	
8" C-900 PVC	75 LF
6" C-900 PVC	375 LF
2-1/2" PVC	160 LF
8" Gate valve	1 EA
6" Gate valve	2 EA
6" Check valve	1 EA
Post indicator with tamper switch	1 EA
Fire hydrants	2 EA
Siamese connection	1 EA
Sewer	
8" PVC	90 LF
Cleanouts	1 EA
Earthwork	
Cut	435 CY
Fill	4070 CY
Import	3635 CY

The quantities shown for earthwork are geometric only and do not take into account shrinkage or subsidence. All work shall be in strict accordance with the "Soil and Foundation Investigation, Two Fire Stations: Nos 2 and 42, Durango Road, North of West Charleston Boulevard, Cheyenne Avenue, West of Teneya Way, Las Vegas, Nevada" prepared by Converse Consultants Southwest, Inc. dated November 3, 1987.

VICINITY MAP



FIRE STATION SUMMARY TABLE

STATION NO.	2
CONSTRUCTION TYPE	V
FIRE RATING	1 HR
FLOOR AREA (SF)	8600
SPRINKLER SYSTEM	YES
DISTANCE TO ADJACENT STRUCTURES (FT)	25
FIRE FLOW (GPM)	1500

FIRE DEPARTMENT NOTES

1. ALL ONSITE FIRE MATERIALS TO BE UL LISTED OR FM APPROVED.
2. FIRE HYDRANTS ARE TO BE INSTALLED PRIOR TO BUILDING CONSTRUCTION OR STORAGE OF FLAMMABLE MATERIALS ONSITE.
3. AUTHORIZED FIRE HYDRANTS FOR THIS PROJECT ARE:
   A. KENNEDY GUARDIAN
   B. MUELLER A-423 CENTURION
4. CALL THE LAS VEGAS FIRE DEPARTMENT AT 383-2888 FOR UNDERGROUND INSPECTION. PRESSURE AND FLUSH VERIFICATION OF ALL FIRE HYDRANTS AND FIRE LINES REQUIRED BEFORE COVERING.
5. FIRE SERVICE LINES SHALL BE INSTALLED TO COMPLY WITH LOCAL CODES.
6. REQUIRED FIRE FLOWS AS INDICATED ON THESE DRAWINGS MUST BE MET.

INDEX OF DRAWINGS

SHT.	DESCRIPTION
C1	COVER SHEET
C2	INDEX, GENERAL NOTES, VICINITY MAP, SIGNATURE BLOCK & QUANTITIES
C3	UTILITY PLAN & PROFILE
C4	UTILITY PLAN & PROFILE
C5	NOT USED
C6	DURANGO DRIVE PLAN & PROFILE STA. 10+97.54 TO STA. 15+83.31
C7	NOT USED
C8	NOT USED
C9	GRADING, DRAINAGE & PAVING PLAN
C10	MISCELLANEOUS SECTIONS & DETAILS

LEGEND

EXIST. EDGE OF PAVEMENT	——— ——— ———
EXIST. "L" CURB GUTTER	═══════
EXIST. WATER LINE	——— W ———
EXIST. SEWER	——— S ———
EXIST. 5' CONTOUR	——— 70 ———
EXIST. 1' CONTOUR	——— 71 ———
EXIST. GRADE	(65 05)
PROPOSED "A" CURB	━━━━━━
PROPOSED "L" TYPE CURB	══════
PROPOSED DRAINAGE SWALE	——▶··——▶·· ——▶
PROPOSED CONTOUR	——— 62 ———
GRADE BREAK	⧫

ABBREVIATIONS

EXIST. OR EX.	EXISTING
F.F.	FINISH FLOOR
F.H.	FIRE HYDRANT
F.L.	FLOW LINE
G.V.	GATE VALVE
INV.	INVERT
T.C.	TOP OF CURB
C.O.	CLEAN OUT
T.M.	TOP OF MANHOLE
L.F.	LINEAR FEET
TYP.	TYPICAL
T.S.W.	TOP OF SIDEWALK
F.G.	FINISHED GRADE
PI & TS	POST INDICATOR & TAMPER SWITCH

APPROVALS

(Sheets 1,2,3,4,6,9 and 10 ONLY)

[signature] CLV ENGINEER	5-4-88 DATE
William L. Flaja CLV TRAFFIC ENGINEER	4/18/88 DATE
David Boerman CLV FIRE MARSHALL	4/18/88 DATE
[signature] CLV SANITATION ENGINEER	4-4-88 DATE
CLV ELECTRICAL SUPERVISOR	DATE
Eugene Rosen CLV ELECTRICAL COORDINATOR	4/14/88 DATE
Lafue Jackson NEVADA POWER COMPANY	3-15-88 DATE
LAS VEGAS VALLEY WATER DISTRICT	DATE
[signature] CLV CHIEF LAND DEVELOPMENT	4/18/88 DATE

Name of Plan: CLV Fire Station No 2
Water plan as shown will be acceptable. ~~Is to NOT approved for construction.~~
[signature] LVVWD 3/15/88 Date

BENCHMARK

City of Las Vegas B.M. plate and rivet in the top of the existing curb on Durango at the Southeast corner of the "Angel Park Reservoir", Elev. = 2610.16.

BASIS OF BEARING

North 00°12'00" West, being the beginning of the East line of the Southeast quarter (SE 1/4) of Section 32, T20S, R60E, M.D.M., City of Las Vegas, Clark County, Nevada, as shown by a plat on file in the Clark County, Nevada Recorder's Office as page 89 of File 36 of Record Surveys.

Avoid cutting underground utility lines. It's costly.
Call before you Dig.
1-800-227-2600
UNDERGROUND SERVICE ALERT USA

DESCRIPTION | REV | DATE

RECOMMENDED [signature] JACK H. MITCHELL 3343 RE NO 3/25/88 DATE

G.C. WALLACE, INC.
Engineering/Architecture
1555 SOUTH RAINBOW BLVD / LAS VEGAS NEVADA 89102

CITY OF LAS VEGAS
FIRE STATION NO. 2
INDEX, GENERAL NOTES, VICINITY MAP, SIGNATURE BLOCK & QUANTITIES

SHEET C2 OF 10 SHEETS

JOB NO. 412.305D

4-176

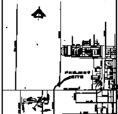
630-78

[illegible]AL NOTES

QUANTITIES

PUBLIC - OFFSITE	PRIVATE - ONSITE
[illegible]	[illegible]

VICINITY MAP



FIRE STATION SUMMARY TABLE

FIRE DEPARTMENT NOTES

INDEX OF DRAWINGS

ABBREVIATIONS

[illegible] NOTES

ST[illegible] NOTES

4" CHANNEL

SAME OF [illegible]

1-800-227-2600

[illegible]

C.C. WALLACE, INC.

CITY OF LAS VEGAS

FIRE STATION NO. 8

SHEET C2