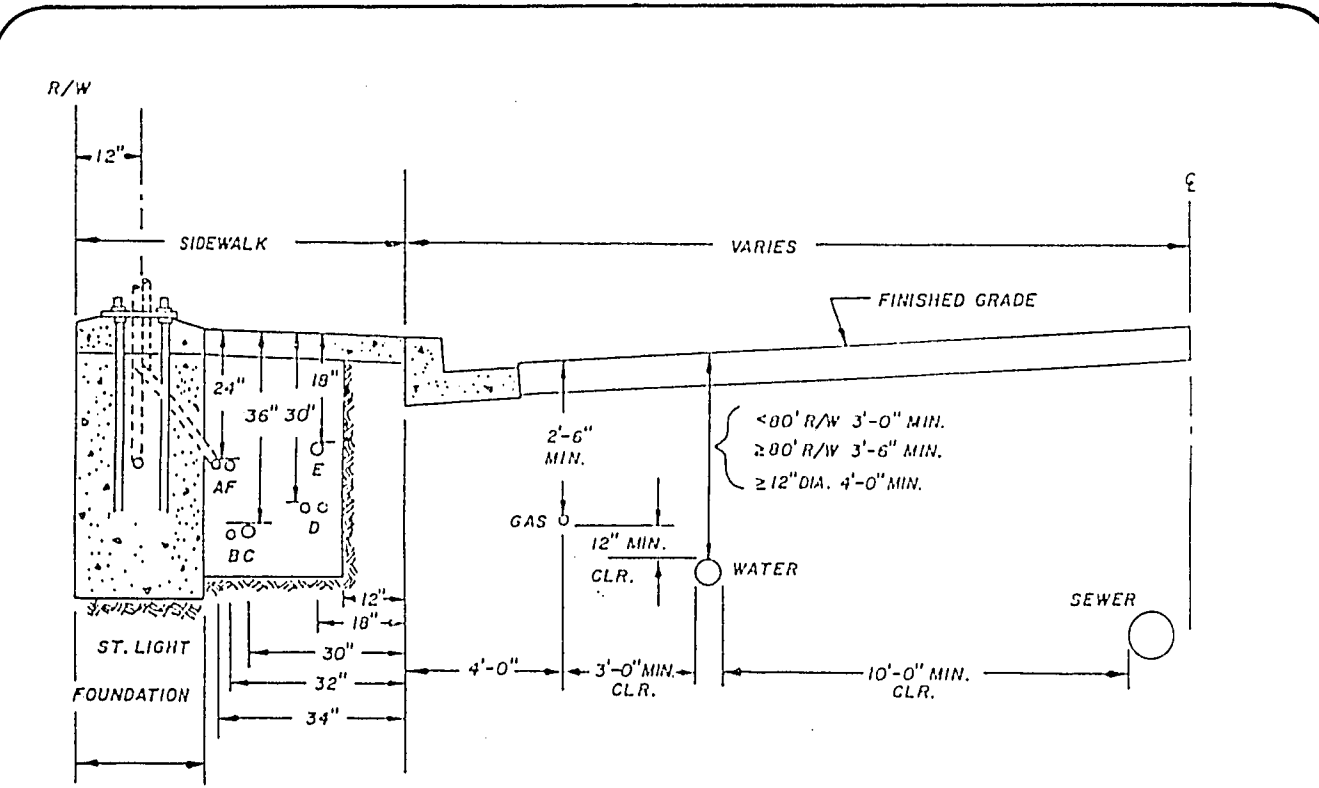


GENERAL NOTES

- PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
- 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.



- A. STREET LIGHT CONDUIT
- B. POWER COMPANY SECONDARY
- C. POWER COMPANY PRIMARY
- D. TELEPHONE CONDUITS
- E. CABLE T.V. CONDUIT
- F. TRAFFIC SIGNAL CONDUIT

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPICAL UNDERGROUND
UTILITY LOCATIONS
IN STREET

DATE DWG NO 501 PAGE NO 1.

LAS VEGAS VALLEY WATER DISTRICT NOTES

- ALL WORK TO CONFORM TO LAS VEGAS VALLEY WATER DISTRICT LATEST STANDARDS AND SPECIFICATIONS.
- ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE NO. 1, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA.
- NOTICE TO BE GIVEN ENGINEERING DEPARTMENT OF THE LAS VEGAS VALLEY WATER DISTRICT 48 HOURS PRIOR TO ACTUAL CONSTRUCTION.
- 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.
- ALL LINES TO BE PRESSURE TESTED TO 200 PSI.
- DEFLECTION ANGLE SHALL NOT EXCEED 2 1/2 DEGREES PER 13 FOOT SECTION OF PIPE FOR PIPE SIZES SMALLER THAN 14 INCHES AND SHALL NOT EXCEED 2 DEGREES FOR PIPE SIZES BETWEEN 14 INCHES AND 16 INCHES.
- ALL METERS SHALL BE LOCATED OUTSIDE OF DRIVEWAYS.
- DETECTOR TAPE REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. 27 WHERE INDICATED AND AS FOLLOWS:
 - (a) OVER ALL MAINS NOT INSTALLED AT 6 FEET FROM BACK OF CURB.
 - (b) OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAINS.
- SERVICE LATERALS FOR LOTS WILL BE TAPPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF THE LAS VEGAS VALLEY WATER DISTRICT.

QUANTITIES

"FOR BIDDING PURPOSES ONLY"

- | | |
|--|--------------|
| 1. 3" A.C. PAVEMENT & 4" TYPE II GRAVEL BASE | 1836 SQ. FT. |
| 2. TYPE I GRAVEL BASE | 51 CU. YDS. |
| 3. 24" "M" TYPE CURB & GUTTER | 110 LIN. FT. |
| 4. 4" CONC. SIDEWALK | 768 SQ. FT. |
| 5. 250 W. H.P.S. LIGHT STANDARD | 1 EA. |
| 6. COMMERCIAL DRIVEWAY | 297 SQ. FT. |
| 7. UNDERSIDEWALK DRAIN | 90 |
| 8. FOR WATER QUANTITIES SEE SHEET 4 OF 4 | |
| 9. FOR SEWER QUANTITIES SEE SHEET 4 OF 4 | |

ABBREVIATIONS

- | | |
|--|---|
| AC..... ASPHALTIC CONCRETE | MH..... MANHOLE |
| ACP..... ASPBESTOS CEMENT PIPE | MIN..... MINIMUM |
| ADJ..... ADJUST | NO..... NUMBER |
| BC..... BEGINNING OF CURB OR BACK OF CURB | OC..... ON CENTER |
| BCR..... BEGINNING OF CURB RETURN OR BACK OF CURB RADIUS | OD..... OUTSIDE DIAMETER |
| BDRY..... BOUNDARY | P..... POWERLINE |
| BEG..... BEGIN | PC..... POINT OF CURVATURE |
| BM..... BENCHMARK | PCC..... POINT OF COMPOUND CURVE |
| BSW..... BACK OF SIDEWALK | PG..... PAD GRADE |
| BVC..... BEGINNING OF VERTICAL CURVE | PHP..... PLASTIC HIGH PRESSURE |
| C & G..... CURB AND GUTTER | PI..... POINT OF INTERSECTION |
| CF..... CURB FACE | PL..... PROPERTY LINE |
| CIP..... CAST IRON PIPE | PP..... POWER POLE |
| CL..... CENTERLINE | PRC..... POINT OF REVERSED CURVE |
| CMP..... CORRUGATED METAL PIPE | PROP..... PROPOSED |
| CONC..... CONCRETE | PT..... POINT OF TANGENT |
| CONST..... CONSTRUCT | PVC..... POLY VINYL CHLORIDE PIPE |
| DC..... DEPRESSED CURD | PVI..... POINT OF VERTICAL INTERSECTION |
| DI..... DROP INLET | PVMT..... PAVEMENT |
| DIA..... DIAMETER | Q..... RATE OF FLOW |
| DIP..... DUCTILE IRON PIPE | R..... RADIUS |
| DMH..... DROP MANHOLE | RCF..... REINFORCED CONCRETE PIPE |
| EC..... END OF CURVE | RT..... RIGHT |
| ECR..... END OF CURB RETURN | R/W..... RIGHT-OF-WAY |
| EL..... ELEVATION | S..... SANITARY SEWER |
| EVC..... END OF VERTICAL CURVE | SD..... STORM DRAIN |
| EX..... EXISTING | SHP..... STEEL HIGH PRESSURE |
| FC..... FACE OF CURB | SHT..... SHEET |
| FF..... FINISHED FLOOR | SP MH..... SPECIAL MANHOLE |
| FG..... FINISH GRADE | STA..... STATION |
| FH..... FIRE HYDRANT | STD..... STANDARD |
| FL..... FLOW LINE | STL..... STEEL |
| G..... GAS | SW..... SIDEWALK |
| GB..... GRADE BREAK | T..... TANGENT DISTANCE OR TELEPHONE |
| HGT..... HIGH OR HEIGHT | TC..... TOP OF CURB |
| HOR..... HORIZONTAL | TMH..... TOP OF MANHOLE |
| HP..... HIGH POINT | TRANS..... TRANSITION |
| ID..... INSIDE DIAMETER | TSC..... TRAFFIC SIGNAL CONDUIT |
| INV..... INVERT | TSW..... TOP OF SIDEWALK |
| LAT..... LATERAL | VC..... VERTICAL CURVE |
| LF..... LINEAL FEET | VCP..... VITRIFIED CLAY PIPE |
| LT..... LEFT | VERT..... VERTICAL |
| MAX..... MAXIMUM | VG..... VALLEY GUTTER |
| | W..... WATER |

STREETLIGHTING NOTES

240 VOLT SINGLE PHASE TWO WIRE SYSTEMS - UNDERGROUND

STREET LIGHTING STANDARDS SHALL BE AS SHOWN BY DRAWING NO. 400.1, PAGE 40 OF UNIFORM STANDARD DRAWINGS AND MUST CONFORM TO SECTIONS 400 AND 405 AND ANY OTHER APPLICABLE SECTIONS OF THE UNIFORM STANDARD SPECIFICATIONS.

ON 80' RIGHT-OF-WAY STREETS THERE SHALL BE 2 POLES ON DIAGONAL CORNERS.

ON 100' RIGHT-OF-WAY STREETS THERE SHALL BE ONE POLE AT EACH CORNER.

HIGH PRESSURE SODIUM LUMINARIES TO BE USED ON 51' AND 60' RIGHT-OF-WAY STREETS SHALL BE 100 WATT, 240 VOLT I.E.S. DISTRIBUTION TYPE 3, WITH INTEGRAL CONSTANT WATTAGE BALLAST, SIMILAR TO GENERAL ELECTRIC TYPE M-250A, CATALOGUE NO. 726804 OR APPROVED EQUAL.

HIGH PRESSURE SODIUM LUMINARIES TO BE USED ON 80' RIGHT-OF-WAY STREETS AND OVER SHALL BE 250 WATT, 240 VOLT I.E.S. DISTRIBUTION TYPE 3, WITH INTEGRAL CONSTANT WATTAGE BALLAST, SIMILAR TO GENERAL ELECTRIC TYPE M-400A, CATALOGUE NO. 7246804 OR APPROVED EQUAL.

100 WATT HIGH PRESSURE SODIUM LAMPS SHALL BE SYLVANIA LU100 OR APPROVED EQUAL.

250 WATT HIGH PRESSURE SODIUM LAMPS SHALL BE SYLVANIA LU250 OR APPROVED EQUAL.

PHOTO CELL AND CONTROL TO BE 120 VOLTS: FISHER PIERCE 6660 OR APPROVED EQUAL.

SPACING OF STANDARDS SHALL BE 180 FEET MAXIMUM ON 51' AND 60' RIGHT-OF-WAY STREETS ON ONE SIDE.

SPACING OF STANDARDS SHALL BE 180 FEET MAXIMUM ON 80' RIGHT-OF-WAY STREETS ON EACH SIDE AND STAGGERED.

SCHEDULE 40 RIGID NON-METALLIC CONDUIT (PVC) OR APPROVED EQUAL COMPLYING WITH ARTICLE 347 OF THE NATIONAL ELECTRIC CODE MAY BE USED FOR UNDERGROUND APPLICATIONS AND SHALL BE WITHIN 12" OF BACK OF CURB AND SHALL HAVE 24" COVER.

FUSE HOLDERS AND CONNECTORS SHALL BE INSTALLED IN THE BASES OF ALL LIGHTING STANDARDS. FUSE HOLDERS SHALL BE BUSS-IRON-HEX-AA, WITH RUBBER BOOTS.

BASE COVERS FOR LIGHTING STANDARDS ARE NOT TO BE INSTALLED BEFORE BREAKOUT CAPS ARE PLACED AND INSPECTED. ALL MATERIAL USED IN UNDERGROUND WIRING, IN BREAKOUT CAPS AND UNDER BASE COVERS IS TO BE INSPECTED BEFORE INSTALLATION.

FOUNDATIONS SHALL BE CONSTRUCTED AND LOCATED TO LINE AND GRADE AS DIRECTED BY THE FIELD ENGINEER.

LIGHTING STANDARD AND MAST ARM CABLE TO LUMINARIES SHALL BE 10/2 U.F. TYPE 600 VOLT COPPER CABLE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING DAMAGE TO PROPERTY, EITHER PUBLIC OR PRIVATE AND IN THE EVENT OF SUCH DAMAGE, SHALL MAKE SATISFACTORY REPAIRS AT HIS OWN EXPENSE.

THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS, IF REQUIRED.

THE SERVICE JUNCTION STANDARD IS TO BE INSTALLED AT THE APPROVED LOCATION SHOWN ON PLANS AND SHALL CONFORM TO DRAWING NO. 402.1, PAGE 44, OF THE UNIFORM STANDARD DRAWINGS.

IN THE SELECTION OF 100 AND 250 WATT HIGH PRESSURE SODIUM LUMINARIES TO BE USED IN A PARTICULAR DEVELOPMENT, ONE APPROVED MANUFACTURER SHALL BE SPECIFIED. THESE SPECIFICATIONS BECOME EFFECTIVE ON ALL CITY OF LAS VEGAS MULTIPLE STREET LIGHTING DESIGNS APPROVED ON OR AFTER JUNE 1, 1977.

THESE SPECIFICATIONS SHALL BE SUPERSEDED BY ANY SPECIFICATIONS IN EXISTENCE AT THE TIME OF INSTALLATION.

OWNER/DEVELOPER

WESTAR DEVELOPMENT CORPORATION
4170 S. DECATUR BLVD. SUITE D1
LAS VEGAS, NV. 89103
(702) 364-1133

BENCHMARK

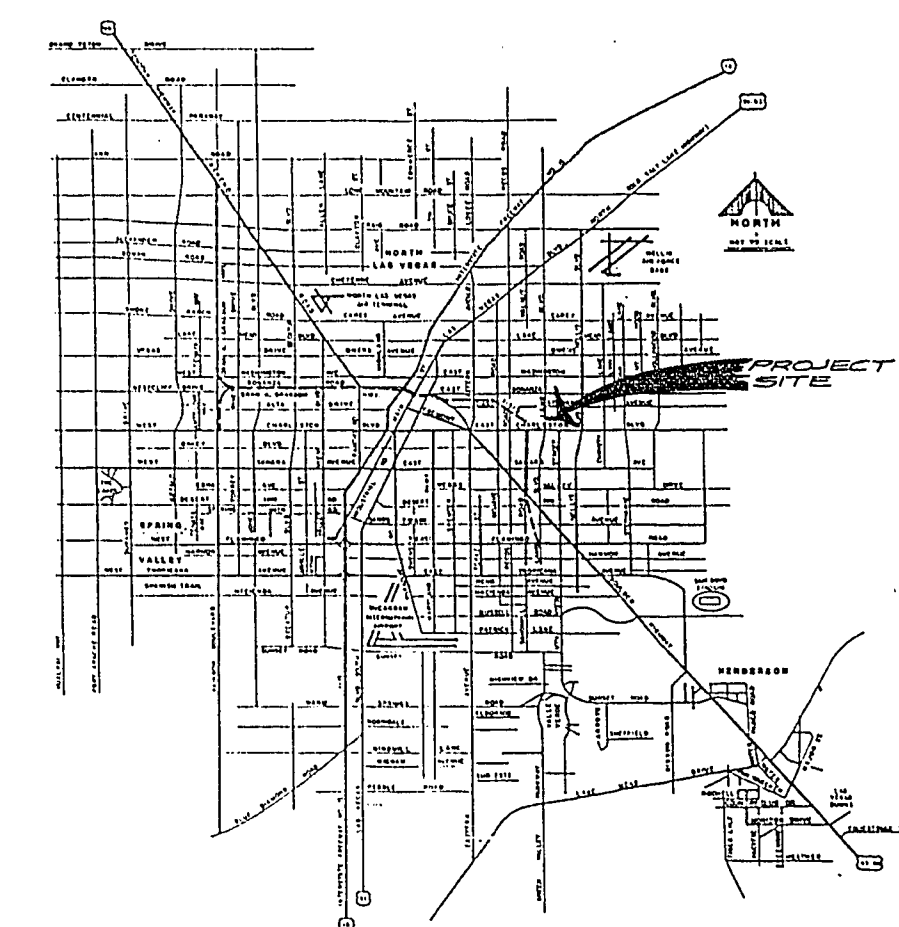
FOUND RIVET IN 2" x 2" ALUMINUM PLATE IN TOP OF CURB, NORTHEAST CORNER OF CHARLESTON BLVD. & LAMB BLVD. NEAR THE P.C. OF CHARLESTON BLVD. #6C0232SMS
ELEVATION = 1750.99
CLV B.M. NO. 0623101
ELEVATION = 1751.66
(RECORD ELEVATION = 1752.97)

GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", ISSUED 1986; "THE IMPROVEMENT STANDARDS", CLARK COUNTY, NEVADA, REVISED APRIL 1986; ANY OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL APPLICABLE LOCAL CITY CODES AND ORDINANCES.
- THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS IS OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE DRAWINGS. 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.
- ALL GRADES ARE REFERENCED TO THE TOP OF THE CONSTRUCTION GRADE STAKES OR NAILS AND THIS RULE SHALL BE OBSERVED: THREE CONSECUTIVE CONSTRUCTION GRADE STAKES OR NAILS CORRESPONDING TO THREE CONSECUTIVE POINTS SHOWN ON THE APPROVED PLANS AS A STRAIGHT GRADE SHALL BE USED IN COMMON AND ANY VARIATION SHALL BE REPORTED IN WRITING TO THE SURVEYOR BEFORE WORK PROCEEDS. CONTRACTORS DOING OTHERWISE SHALL PROCEED AT THEIR TOTAL RISK AND RESPONSIBILITY.
- THE QUANTITY ESTIMATES SHOWN HEREON ARE APPROXIMATE AND NO ONE IS TO RELY UPON THEM FOR PAY QUANTITIES. EACH AND EVERY CONTRACTOR SHALL HAVE A SET OF APPROVED PLANS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES AND SHALL RELY UPON THEM TO A HIGHER DEGREE THAN THE CONSTRUCTION STAKES IN PROSECUTING THE WORK.
- ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS. ANY ALTERATIONS SHALL HAVE THE PRIOR APPROVAL OF THE CITY ENGINEER.
- 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 CITY ENGINEER AND AS SHOWN ON PLANS.
- IF ANY CURB GRADES ARE SHOWN ON THE PLANS AT LESS THAN 0.40%, IT IS REQUIRED BY THIS OFFICE THAT THE FORMS BE CHECKED BY A SURVEY CREW PRIOR TO CONCRETE PLACEMENT. A 48-HOUR NOTIFICATION OF WORK IS REQUIRED, AND IF THIS OFFICE IS NOT NOTIFIED, IT WILL ASSUME NO RESPONSIBILITY FOR THE FINISHED PRODUCT. EACH JOINT SHALL BE WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
- 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.
- EXPANSION JOINTS ARE REQUIRED AT A MAXIMUM OF EVERY 300 FEET IN EXTRUDED TYPE CURB.
- A.C. PAVEMENT IS TO BE 1/2 INCH ABOVE THE LIP OF ALL GUTTERS AND VALLEY GUTTERS AFTER COMPACTION.
- CHISEL "S" OR "G" WHENEVER SEWER OR GAS LINES PASS UNDER THE CURB.
- WHEELCHAIR RAMP SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER CITY OF LAS VEGAS STANDARD DRAWING NO. 235. EXACT LOCATION OF RAMP MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
- APPLY FOG SEAL ONLY AFTER ALL CORRECTIONS AND ADJUSTMENTS HAVE BEEN MADE.
- 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 OWNER AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL OVERHEAD INTERFERENCES WHICH MAY EFFECT 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 COSTS AND LIABILITY IN CONNECTION THEREWITH.

FIRE DEPARTMENT NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT "HYDRANT SPECIFICATIONS" AND "HYDRANT INSTALLATION SPECIFICATIONS".
- AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
 - A - KENNEDY GUARDIAN
 - B - MUELLER A-423 CENTURIAN
- ON ANY NEW HOME OR BUILDING CONSTRUCTION, ACCESSIBLE FIRE HYDRANTS SHALL BE INSTALLED BEFORE COMBUSTIBLE CONSTRUCTION COMMENCES AND SAID FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER WITH AN ADEQUATE WATER SUPPLY.
- CONTRACTOR SHALL PLACE A GREEN REFLECTIVE MARKER AT CENTERLINE OF STREET ADJACENT TO FIRE HYDRANTS.
- CALL THE LAS VEGAS FIRE DEPARTMENT AT 383-2888 FOR UNDERGROUND INSPECTION, PRESSURE AND FLUSHING VERIFICATION OF ALL PRIVATE FIRE HYDRANTS AND FIRE LINES BEFORE COVERING.
- PAINTING OF THE CURBS AND HYDRANT AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANTS FROM PHYSICAL DAMAGE PER THE "HYDRANT INSTALLATION SPECIFICATIONS" SHALL BE COMPLETED BEFORE APPROVAL OF THE HYDRANTS BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
- FIRE HYDRANT SPACING:
 - RESIDENTIAL - 600 FT. MAXIMUM
 - COMMERCIAL - 500 FT. MAXIMUM
 FIRE HYDRANTS SHALL BE LOCATED WITHIN 500 FT. OF ANY CONSTRUCTION OR COMBUSTIBLE OPEN STORAGE, AND SHALL BE INSTALLED PRIOR TO CONSTRUCTION.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN 6' OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20' OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
- A PERMIT MUST BE OBTAINED FROM THE FIRE DEPARTMENT FOR ONSITE FIRE WATER SYSTEM INSTALLATION PRIOR TO CONSTRUCTION.



INDEX OF SHEETS

- COVER SHEET
- PAVING & GRADING PLAN
- PLAN & PROFILE LAMB BOULEVARD & OFFSITE DRAINAGE
- WATER & SEWER PLAN

APPROVAL

LAS VEGAS VALLEY WATER DISTRICT
(Sheet No. 501)

Leanne Miller
C.I.V. CITY ENGINEER

[Signature]
C.I.V. QUALITY CONTROL ENGINEER

[Signature]
C.I.V. LAND DEV. & FLOOD CONTROL

[Signature]
C.I.V. FIRE MARSHALL

[Signature]
C.I.V. SANITATION SUPERINTENDENT

[Signature]
C.I.V. TRAFFIC ENGINEER

[Signature]
C.I.V. ELECTRICAL COORDINATOR

[Signature]
C.I.V. ELECTRICAL SUPERVISOR

DATE SIGNED 9/23/88

DATE 10/1/88

DATE 10/7/88

DATE 08-10-88

REVISION NO.	DESCRIPTION	BY	DATE	APPROVAL
REVISIONS				
LAMB/CHARLESTON MINI STORAGE				
LAS VEGAS NEVADA				
COVER SHEET				
SCALE (H) -		SCALE (V) -		
DES. BY: DR. PASCOE		CHK. BY: DR. PASCOE		
JOB NO. 2298-88		SHEET 1 OF 4		