

EAST PARKING LOT IMPROVEMENT PLANS

LAS VEGAS VALLEY WATER DISTRICT

FOR WELLES PUGSLEY ARCHITECTS

ABBREVIATIONS

A.C.	ASPHALTIC CONCRETE
A.C.P.	ASBESTOS CEMENT PIPE
ADJ.	ADJUST, ADJUSTABLE
BDRY.	BOUNDARY
BEG.	BEGIN
B.M.	BENCHMARK
C & G.	CURB AND GUTTER
C.I.P.	CAST IRON PIPE
C.	CENTERLINE
CONC.	CONCRETE
CONSTR.	CONSTRUCT, CONSTRUCTION
DIA.	DIAMETER
D.I.P.	DUCTILE IRON PIPE
EL.	ELEVATION
HORIZ.	HORIZONTAL
H.P.	HIGH POINT
I.D.	INSIDE DIAMETER
INT.	INVERT
L.F.	LINEAL FEET
MAX.	MAXIMUM
M.H.	MANHOLE
MIN.	MINIMUM
NG	NATURAL GROUND
No.	NUMBER
NTS	NOT TO SCALE
O.D.	OUTSIDE DIAMETER
O.H.P.	OVER HEAD POWER
P.	POWERLINE
P.C.	POINT OF CURVATURE
P.H.P.	PLASTIC HIGH PRESSURE
P.I.	POINT OF INTERSECTION
PL.	PROPERTY LINE
P.P.	POWER POLE
P.V.C.	POLYVINYL CHLORIDE PIPE
P.V.M.T.	PAVEMENT
RAD.	RADIUS
R.C.P.	REINFORCED CONCRETE PIPE
R/W.	RIGHT OF WAY
SS.	SANITARY SEWER
S.D.	STORM DRAIN
S.H.P.	STEEL HIGH PRESSURE
SHT.	SHEET
STD.	STANDARD
STL.	STEEL
SW	SIDEWALK
TEL.	TELEPHONE
TC.	TOP OF CURB
T.O.C.	TOP OF CONCRETE
TRANS.	TRANSITION
VG.	VALLEY GUTTER
W.	WATER

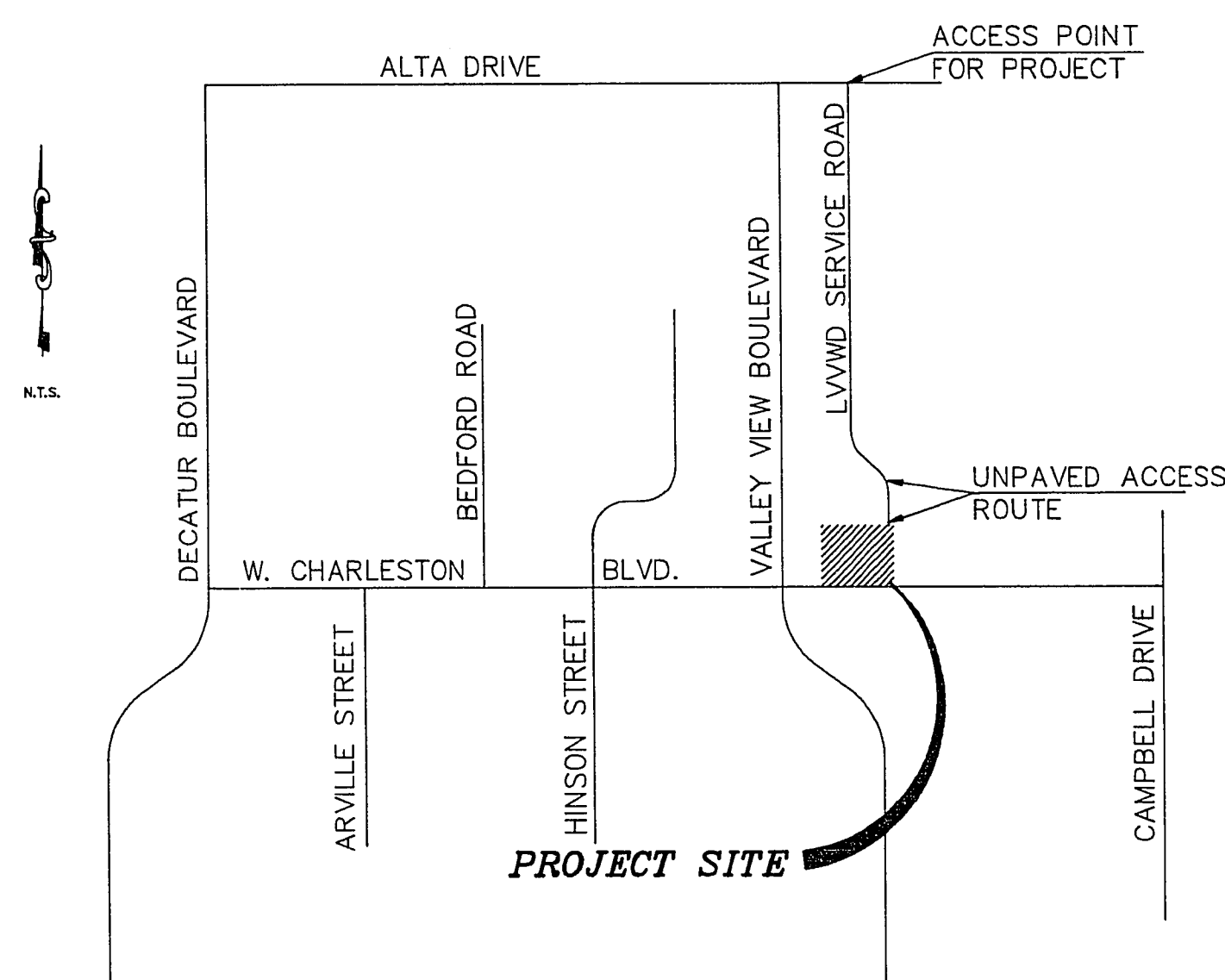
QUANTITY ESTIMATE

ITEM	QUANTITY
16" D.I. Water	270 LF
16" 45° Bends	3 EA
16" Butterfly Valve	1 EA
2" A.C. Pavement	62,900 SF
"L" Type Curb/Gutter	640 LF
Tack on Curb	490 LF
Sidewalk	2,750 SF
3" Valley Gutter	374 LF
4" Valley Gutter	100 LF
Decorative Rock/Visqueen	16,644 SF
Light Poles	6 EA
Chain Link Fence	700 LF
Irrigation Sleeves	190 LF
Sidewalk Drain	2 EA
Type II Base	1,050 CY
Cut (Earthwork)	600 CY
Fill (Earthwork)	5,800 CY
14" Meter (prov. by LVVWD)	1 EA
14" D.I. Water	10 LF
12" D.I. Water	6 LF
16" 45° Bend	3 EA
14" 45° Bend	1 EA
16x14 Reducer	1 EA
14x12 Reducer	1 EA
12x10 Reducer	2 EA
10" Spool	4 EA
Air Release Valve	1 EA
Transformer	1 EA
Electrical Conduits	2,820 LF
Gates	2 EA
Raise Fire Hydrant and Valve	1 EA
Raise Bollards	4 EA
*A" Block @ Wall Ends	4 EA
Bollards	4 EA

DEMOLITION AND REMOVAL ITEMS

Pump Relocation/Associated Pipes & Valves	
Reservoir	1 EA
Pump House	1 EA
SW	12 EA
Telemetry Vault	1 EA
Chain Link Fence	65 LF
Block Wall	58 LF
Cut/Cap Pipe (bumped head)	6 EA
24" ACP Removal	403 LF
24" CIP Removal	53 LF
Replace 24" Butterfly Valve	1 EA
Remove 24" Check Valve and Reconnect	1 EA
Plug Pipe with Concrete	8 EA

VICINITY MAP



DRAWING INDEX

- 1 ... COVER SHEET
- 2 ... DEMOLITION PLAN
- 3 ... SITE PLAN
- 4 ... GRADING PLAN
- 5 ... ELECTRICAL PLAN
- 6 ... ELECTRICAL DETAILS
- 7 ... ELECTRICAL DETAILS
- 8 ... SITE IMPROVEMENT DETAILS
- 9 ... WATERWORKS DETAILS

BID SET: DECEMBER 16, 1992

APPROVALS: (FOR OFF-SITE USE)
 DENNIS ANDERSON, P.E. DATE 1/26/93
 Jack M. Walley DATE
 LVVWD

DEVIATION FROM STANDARDS: NONE

PROJECT BENCHMARK

CLARK COUNTY BENCHMARK NO.7C01-31SSE6 FOUND DRIVE RIVET IN A 2"x2" ALUMINUM PLATE, IN DRILLED HOLE WITH EPOXY GLUE, IN TOP OF CURB, NORTHEAST CORNER OF CHARLESTON BLVD. & VALLEY VIEW BLVD. NEAR THE PC OF CHARLESTON BLVD.

ELEVATION: 2150.117

CALL BEFORE YOU DIG !!
 1-800-227-2600

ENGINEER



CONSULTING ENGINEERS
 OF NEVADA, INC.
 2295-B RENAISSANCE DRIVE
 LAS VEGAS, NEVADA 89119
 PHONE (702)798-9045
 FAX (702)798-1690

CRS JOB No. 30-22274
 AND DWG. NO. LV-116

Scott M. Walley

12/16/92

107-V8092
 9-2-65

- CITY OF LAS VEGAS
 ZONE SUPERVISOR'S OFFICE
- CITY OF LAS VEGAS GENERAL NOTES
1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPARTMENT "HYDRANT SPECIFICATIONS", HYDRANT INSTALLATION SPECIFICATIONS AND ORDINANCE #1577.
 2. AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
 A. KENNEDY GUARDIAN
 B. WHEELER A-422 CENTURIAN
 C. CLON MODEL 2546 MEDALLION
 3. ON ANY NEW HOME OR BUILDING INSTALLATION, 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.
 4. CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT CENTERLINE OF STREET ADJACENT TO FIRE HYDRANT AS REQUIRED IN ORDINANCE #1577 TO INDICATE FIRE HYDRANT LOCATIONS.
 5. CALL THE LAS VEGAS BUILDING DEPARTMENT AT 229-2071 FOR UNDERGROUND UTILITY LOCATIONS.
 6. PAINTING OF THE CURBS AND HYDRANT AND ANY WORK NECESSARY FOR PROTECTION OF HYDRANTS FROM PHYSICAL DAMAGE PER ORDINANCE #1577 SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPARTMENT.
 7. A PERMIT IS REQUIRED FROM THE FIRE DEPARTMENT FOR ON-SITE WATER LINE AND FIRE HYDRANT. THE PERMIT AND CONTRACTOR MATERIAL AND TEST CERTIFICATES FOR UNDERGROUND PIPING FROM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER PRIOR TO ANY WORK BEGINNING.
 8. A FLOW TEST MUST BE WITNESSED BY THE FIRE DEPARTMENT PRIOR TO OCCUPANCY FOR VERIFICATION OF REQUIRED ON-SITE WATER SUPPLY.
 9. ALL ON-SITE FIRE MAIN MATERIALS MUST BE U.L. LISTED AND F.H. APPROVED.
 10. FIRE HYDRANT SPACING:
 RESIDENTIAL - 500 FEET UNSPRINKLERED, 600 FEET SPRINKLERED
 COMMERCIAL, INCLUDING MULTI-FAMILY - 300 FEET UNSPRINKLERED, 400 FEET SPRINKLERED
 11. NO FIRE HYDRANT SHALL BE LOCATED WITHIN 6 FEET OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
 12. NO FIRE HYDRANT SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER OF THE REQUIRED CUL-DE-SAC.
 13. NOT MORE THAN 2 HYDRANTS CAN BE OUT OF SERVICE DUE TO A SINGLE MAIN BREAK.
 14. THE TURNING RADIUS FOR ANY FIRE APPARATUS ACCESS ROAD AND/OR FIRE LANE, PUBLIC OR PRIVATE SHALL BE NOT LESS THAN 45 FEET OUTSIDE RADIUS AND 22 FEET INSIDE RADIUS.
 15. A FIRE APPARATUS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIREST FLOOR IS LOCATED MORE THAN 150 FEET FROM A FIRE DEPARTMENT VEHICLE ACCESS. (SEE EXCEPTIONS IN UFC 88, SECTION 10.207).
 16. ALL DEAD END FIRE APPARATUS ACCESS ROADS AND/OR FIRE LINES PUBLIC OR PRIVATE IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURNAROUND AREA. SEE ORDINANCE #1677.
1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - CLARK COUNTY AREA EDITION), LATEST EDITION, AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTRACTING AGENCY. THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - CLARK COUNTY AREA EDITION", LATEST EDITION, AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTRACTING AGENCY, SHALL BE USED IN THIS PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE APPROVED STANDARDS.
 2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A REFERENCE OF THE AVAILABLE RECORDS. EXISTING UTILITIES ARE LOCATED ON THESE PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION. LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCES TO HIS OPERATION AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COSTS AND LIABILITY IN CONNECTION THEREWITH.
 3. THE CONTRACTOR SHALL MAKE ALL PRELIMINARY MEASUREMENTS NECESSARY TO PROTECT EXISTING UTILITY LINES, UNDERGROUND AND OVERHEAD INTERFERENCES. THE BURDEN OF PROOF FOR THE LOCATION OF ALL UTILITIES SHALL BE UPON THE CONTRACTOR. ALL UTILITIES SHALL BE RECORDED TO THE CITY ENGINEER'S SATISFACTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY UTILITY CONTRACTS FOR THE CONSTRUCTION OF THIS PROJECT.
 4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS. ANY REVISIONS OR CHANGES SHALL BE MADE BY THE CITY ENGINEER.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY ENGINEER AND THE CITY ENGINEER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY ENGINEER.
 6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE CITY ENGINEER.
 7. EMISSION JOINTS REQUIRED, INCLUDING EVERY 200' IN EXTENDED TYPE CURB.
 8. AS PERMITTED TO BE 1/2" ABOVE LIP OF ALL GUTTERS AFTER CONNECTION, EXCEPT AT SIDEWALK CURBS.
 9. APPLY FOR SEAL AFTER ALL CONNECTIONS AND ADJUSTMENTS HAVE BEEN MADE.
 10. CURB & GUTTER WITH A GRAB OF LESS THAN FOUR FEET OF ONE PAVEMENT SHALL BE WATER TESTED AS SHOWN AS POSSIBLE AFTER CONNECTION. ANY CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY SHALL BE REMOVED AND REPLACED.
 11. EXISTING BENCH MARKS SHALL BE CONSIDERED IN EACH INSTANCE OF AN INTERSECTION OR STANDARD CURVES 225'. EXACT LOCATION OF BENCH MARKS SHALL BE AS SHOWN ON THESE PLANS.
 12. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN HIS CONSTRUCTION AND EXISTING CONDITIONS TO PROVIDE FOR PROPER DRAINAGE AND FLOW UNDER ALL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY ENGINEER.
 13. ALL GRADING WORK SHALL CONFORM TO THE SLOPE FRONT AS PREPARED BY THE SOILS ENGINEER AND APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
 14. EXACT LOCATION OF ALL SLOPE LINES MAY BE REVISIONED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY ENGINEER.
 15. THE CONTRACTOR SHALL MAKE ALL PRELIMINARY MEASUREMENTS NECESSARY TO PROTECT EXISTING UTILITY LINES, UNDERGROUND AND OVERHEAD INTERFERENCES. THE BURDEN OF PROOF FOR THE LOCATION OF ALL UTILITIES SHALL BE UPON THE CONTRACTOR. ALL UTILITIES SHALL BE RECORDED TO THE CITY ENGINEER'S SATISFACTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY UTILITY CONTRACTS FOR THE CONSTRUCTION OF THIS PROJECT.
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 17. WELL NOTES:
 A. ALL WELLS, NEW OR EXISTING, ARE ONLY SHOWN FOR THE PURPOSE OF GRADING.
 B. THE STRUCTURAL AND ARCHITECTURAL DESIGN OF ALL WELLS (CONTAINING OR NON-CONTAINING) SHALL BE APPROVED BY THE CITY ENGINEER.
 18. APPROVAL AND DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PROCEEDING OF ANY CITY STREET.