

Las Vegas Fire Department

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF LAS VEGAS FIRE DEPT. "HYDRANT SPECIFICATIONS", "HYDRANT INSTALLATION SPECIFICATIONS" AND ORDINANCE #3316.
- AUTHORIZED HYDRANTS FOR THIS PROJECT ARE:
A - KENNEDY GUARDIAN
B - WELLESER #453 CENTURIAN
C - CLOW MODEL 2548 MEDIANUM
- 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 300-2088 FOR UNDERGROUND INSPECTION, PRESSURE AND FLUSH VERIFICATION OF ALL 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 ORDINANCE #3316 SHALL BE COMPLETED BEFORE APPROVAL BY THE CITY OF LAS VEGAS FIRE DEPT.
- A PERMIT IS REQUIRED FROM THE FIRE DEPARTMENT FOR WATER LINE AND FIRE HYDRANT INSTALLATIONS ON THE PRIVATE SIDE OF THE METER.
- A FLOW TEST MUST BE WITNESSED BY THE FIRE DEPT. FOR VERIFICATION OF ON-SITE WATER SUPPLY.
- ALL ON-SITE FIRE MAIN MATERIALS MUST BE U.L. LISTED AND F.A.M. APPROVED.
- FIRE HYDRANT SPACING:
RESIDENTIAL - 500 FT. MAXIMUM
COMMERCIAL, M.L. MULTI-FAMILY - 500 FT. MAXIMUM
FIRE HYDRANTS SHALL BE LOCATED WITHIN 500 FT. OF ANY CONSTRUCTION OR COMBUSTIBLE OPEN STORAGE.
- NO FIRE HYDRANT SHALL BE LOCATED WITHIN THE REQUIRED RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT. OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
- FIRE HYDRANT SHALL BE LOCATED WITHIN 6 FT. OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREET LIGHT OR ANY OTHER OBSTRUCTION.
- REQUIRE THAT FIRE HYDRANTS ARE CONNECTED TO A DEPENDABLE WATER SUPPLY CAPABLE OF SUPPLYING THE REQUIRED FIRE FLOW.
- NOT MORE THAN 2 HYDRANTS CAN BE OUT OF SERVICE DUE TO A SINGLE MAIN BREAK.

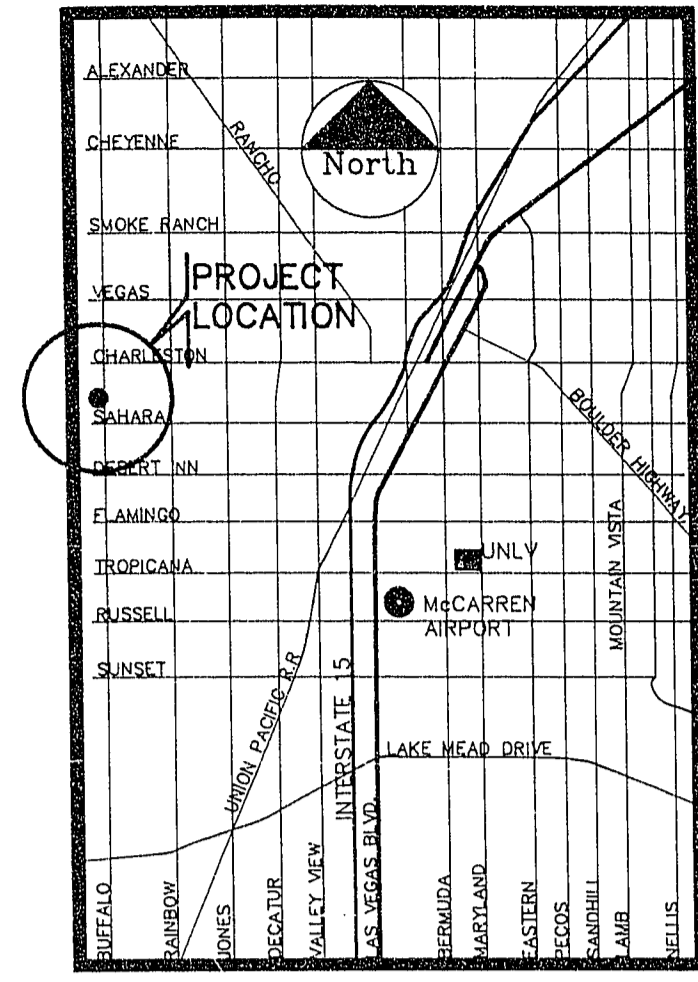
FIRE FLOW REQUIREMENT IS 1150 GPM AT 20 POUNDS PSI RESIDUAL BASED ON:
AREA SEPARATION FIRE WALLS MUST BE IDENTIFIED.
LARGEST AREA BETWEEN AREA SEPARATION WALLS 4000 FT. SQ.
HEIGHT 30' MAX.
TYPE OF CONSTRUCTION VN
EXPOSURES 10' MIN.
SPRINKLER SYSTEM N/A
OCCUPANCY LOW HAZARD
ROOF CONSTRUCTION NON RATED

Las Vegas Valley Water District Notes

- ALL WORK TO CONFORM TO LAS VEGAS VALLEY WATER DISTRICT LATEST STANDARD PLATES AND SPECIFICATIONS.
- ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE 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.
- NOTICE TO BE GIVEN TO THE 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.
- INSTALL METER BOXES AS PER LVWD STANDARD PLATE 1A.
- 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" AND 16".
- 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.
- CALL BEFORE YOU DIG: 1-800-227-2600.

C L V SEWER NOTES

- ALL SANITARY SEWER INSTALLATIONS SHALL CONFORM TO 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 AREA, LATEST EDITION, UNLESS OTHERWISE NOTED.
- CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
- POLYVINYL (PVC) SEWER POPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, AND INSTALLED WITH SAND BEDDING AND BACKFILL OR TYPE 2 GRAVEL.
- ALL MANHOLES IN PAVED STREETS 80' R/W AND LARGER, SHALL HAVE CONCRETE COLLARS.
- TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO 12" IN DIAMETER. CONNECTIONS TO 15" OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES.
- A SEWER MAIN CROSSING OVER A MAIN OR LESS THAN 18" UNDER A WATER MAIN MUST BE REINFORCED CONCRETE ENCASED FOR A DISTANCE NOT LESS THAN TEN FEET (10') TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.



Location Map

LEGEND

- LOT/BUILDING NUMBER
- EXW - EXISTING WATER MAIN
- 8" WATER - PROPOSED WATER MAIN
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXS - EXISTING SEWER MAIN
- 8" SEWER - PROPOSED SEWER MAIN
- EXISTING STREET LIGHT
- PROPOSED STREET LIGHT
- EXISTING BLOCK FENCE
- PROPOSED BLOCK FENCE
- R = 1.00% - RATE AND DIRECTION OF FLOW
- EXISTING CONTOUR LINE
- BUILDING SETBACK LINE FRONT CORNER
- PAD SETBACK LINE FRONT CORNER
- DRAINAGE SWALE
- SCARP (2'HOR. : 1'VER. MAX)

COPPER SERVICE LATERALS: All 3/4" to 2" service laterals will be of copper tubing in accordance with the District specification titled "3503 - Copper Water Tubing".
METERS PROVIDED AND INSTALLED BY LAS VEGAS VALLEY WATER DISTRICT

C L V STREETLIGHT NOTES

ALL STREET LIGHT INSTALLATIONS SHALL CONFORM TO 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 AREA, LATEST EDITION, UNLESS OTHERWISE NOTED.
ALL HAND HOLE COVERS MUST BE INSTALLED, POLE CAPS POURED, AND PULL BOX LIDS BOLTED DOWN PRIOR TO ENERGIZING CIRCUIT. ALL WIRE MUST HAVE THW INSULATION.

APPROVALS

[Signatures]
NEVADA POWER CO. DATE 4/22/90
L.V.V.W.D. DATE 7/6/90
C.L.V. FIRE DEPT. DATE 4/19/90

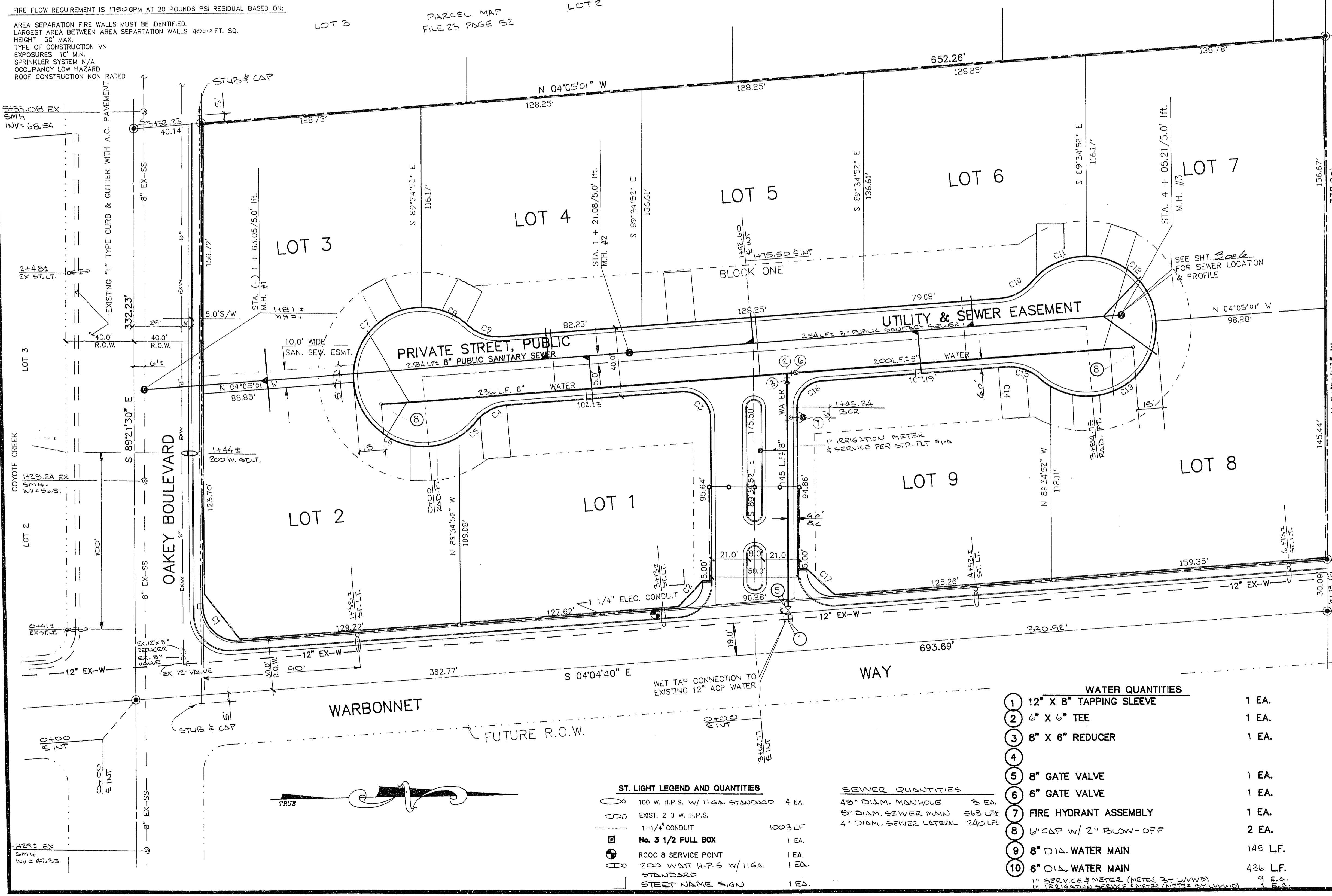
WATER QUANTITIES		
1	12" X 8" TAPPING SLEEVE	1 EA.
2	6" X 6" TEE	1 EA.
3	8" X 6" REDUCER	1 EA.
4	8" GATE VALVE	1 EA.
5	6" GATE VALVE	1 EA.
7	FIRE HYDRANT ASSEMBLY	1 EA.
8	6" CAP W/ 2" BLOW-OFF	2 EA.
9	8" DIA. WATER MAIN	145 LF.
10	6" DIA. WATER MAIN	436 LF.
1" SERVICE & METER (METER 2" W/WD) 9 EA.		
2" SERVICE LATERAL (METER 2" W/WD) 3 EA.		

ST. LIGHT LEGEND AND QUANTITIES

- 100 W. H.P.S. W/ 116s. STANDARD 4 EA.
- EXIST. 2 J W. H.P.S.
- 1-1/4" CONDUIT 1003 LF
- No. 3 1/2 FULL BOX 1 EA.
- RCC & SERVICE POINT 1 EA.
- 200 WATT H.P.S. W/ 116s. STANDARD 1 EA.
- STREET NAME SIGN 1 EA.

SEWER QUANTITIES

- 48" DIA. MANHOLE 3 EA.
- 8" DIA. SEWER MAIN 308 LF
- 4" DIA. SEWER LATERAL 240 LF



REVISION DESCRIPTION

NO.	DATE	BY	DESCRIPTION

DATE 4/19/90

SOUTHWEST ENGINEERING
LAND PLANNING/MAPPING/DEVELOPMENT
650 S. VEGAS DRIVE
LAS VEGAS, NEVADA 89108
PHONE: 702-648-9500

MASTER UTILITY PLAN

RANCHO NEVADA NO. 1

TITLE PROJECT

WORK ORDER NO. 900110

DESIGN BY P.A.K.

DATE MARCH 1, 1990

SCALE: 1"=30.0'

SHEET 5 OF 6 SHEET

CAD FILE: 0010MUP