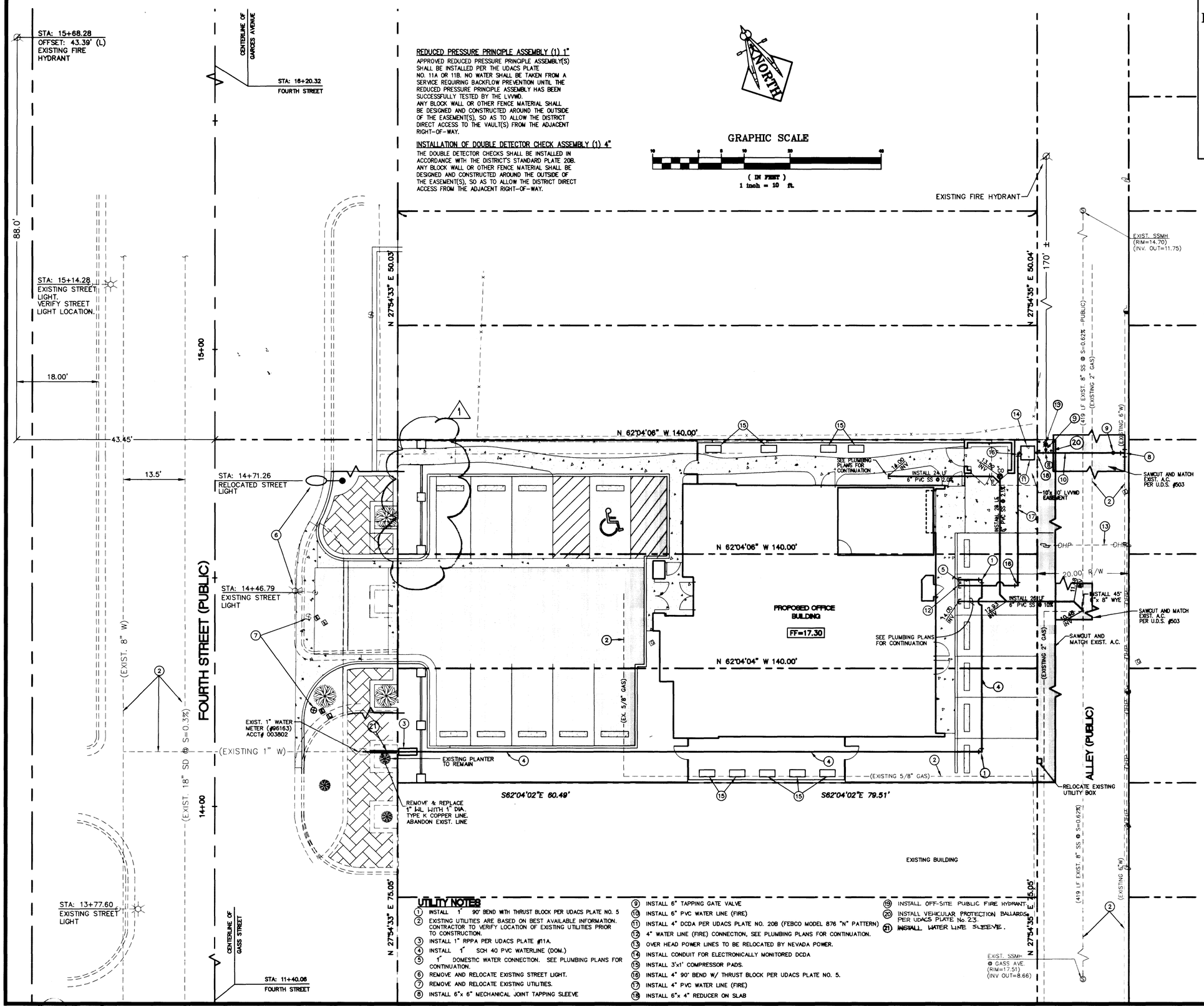


REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 1"

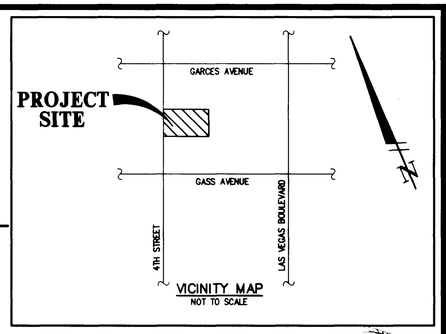
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 11A OR 11B. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD.
ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S), SO AS TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S) FROM THE ADJACENT RIGHT-OF-WAY.

INSTALLATION OF DOUBLE DETECTOR CHECK ASSEMBLY (1) 4"

THE DOUBLE DETECTOR CHECKS SHALL BE INSTALLED IN ACCORDANCE WITH THE DISTRICT'S STANDARD PLATE 20B. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S), SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

UTILITY NOTES

1. INSTALL 1" 90° BEND WITH THRUST BLOCK PER UDACS PLATE NO. 5
2. EXISTING UTILITIES ARE BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. INSTALL 1" RPPA PER UDACS PLATE #11A.
4. INSTALL 1" SCH 40 PVC WATERLINE (DOM.)
5. 1" DOMESTIC WATER CONNECTION. SEE PLUMBING PLANS FOR CONTINUATION.
6. REMOVE AND RELOCATE EXISTING STREET LIGHT.
7. REMOVE AND RELOCATE EXISTING UTILITIES.
8. INSTALL 6"x 6" MECHANICAL JOINT TAPPING SLEEVE
9. INSTALL 6" TAPPING GATE VALVE
10. INSTALL 6" PVC WATER LINE (FIRE)
11. INSTALL 4" DCDA PER UDACS PLATE NO. 20B (FEBCO MODEL 876 "N" PATTERN)
12. 4" WATER LINE (FIRE) CONNECTION, SEE PLUMBING PLANS FOR CONTINUATION.
13. OVER HEAD POWER LINES TO BE RELOCATED BY NEVADA POWER.
14. INSTALL CONDUIT FOR ELECTRONICALLY MONITORED DCDA
15. INSTALL 3'x1' COMPRESSOR PADS.
16. INSTALL 4" 90° BEND W/ THRUST BLOCK PER UDACS PLATE NO. 5.
17. INSTALL 4" PVC WATER LINE (FIRE)
18. INSTALL 6"x 4" REDUCER ON SLAB
19. INSTALL OFF-SITE PUBLIC FIRE HYDRANT.
20. INSTALL VEHICULAR PROTECTION BALLARDS PER UDACS PLATE No. 23.
21. INSTALL WATER LINE SLEEVE.



VICINITY MAP
NOT TO SCALE

APPROVALS

CITY OF LAS VEGAS FIRE DEPT. — DATE 6-14-99

LAS VEGAS VALLEY WATER DISTRICT — DATE 6/21/99

C.L.V. FIRE DEPT.

FIRE FLOW REQUIREMENT IS: 1500 GALLONS PER MINUTE AT 20 P.S.I. RESIDUAL PRESSURE.

BASED ON:

- SQUARE FOOTAGE: 6068
- LARGEST AREA BETWEEN 4-HOUR SEPARATION WALLS: N/A
- BUILDING HEIGHT: 38'
- NUMBER OF STORIES: 2 FLOORS
- TYPE OF CONSTRUCTION: V-N
- OCCUPANCY: N/A
- FULL AUTOMATIC FIRE SPRINKLER SYSTEM: YES
- REVIEWED BY:
- DATE:

SEWER CONTRIBUTION

AVERAGE FLOW = 2113 GPD
PEAK FLOW = 5283 GPD

PUBLIC WATER QUANTITIES

1" WATERLINE	7 LF
1" RPPA	1 EA.
6" SANITARY SEWER LINE	8 LF
CLEAN OUT	1 EA.
45° 6"x6" WYE	1 EA.
4" DCDA	1 EA.
6" WATER LINE	21 LF
6" GATE VALVE	2 EA.
6"x 6" MECHANICAL JOINT TAPPING SLEEVE	2 EA.
6"x 4" REDUCER	1 EA.
FIRE HYDRANT	1 EA.

CONSTRUCTION NOTES

1. ALL WATER LINES 4" OR GREATER TO BE CL. 150, C900 PVC. ALL WATER LINES SMALLER THAN 4" TO BE SCH. 40 PVC.
2. ALL SANITARY SEWER LINES TO BE SDR-35 PVC.
3. CONTRACTOR TO FIELD VERIFY LOCATION OF ALL UTILITY STUBS PRIOR TO CONSTRUCTION.
4. STATIC WATER PRESSURE ON FOURTH STREET =65.20 PSI±
5. ALL EXISTING UTILITY STRUCTURES WITHIN CONSTRUCTION ZONE SHALL BE ADJUSTED TO MATCH FINISH GRADE (e.g. WV, MH, FH, etc.).
7. ALL SEWER MAINS SHOWN ARE PUBLIC SANITARY SEWERS,
8. ALL WATER-SEWER CROSSING MUST CONFORM TO ITEM 16 OF LVVWD STD. NOTES.

BASIS OF BEARINGS

S 27°54'34" W BEING THE CENTERLINE OF FOURTH STREET AS PER RECORD OF SURVEY FILE 67, PAGE 79 ON THE RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK

BM 6C01 3468, BEING A RIVET AND PLATE IN TOP OF CURB, 9 FEET EAST OF PT AT FREEMONT STREET AND 7TH STREET.
ELEV. 2002.30' (610.3011 M) NAVD88

LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED
	RIGHT-OF-WAY		RETAINING WALL
	CENTERLINE		CHAIN LINK FENCE
-W-	WATER LINE		GRADE BREAK
-SS-	SANITARY SEWER LINE		WIRE FENCE
-G-	GAS LINE	FF=17.30	FINISH FLOOR
-SD-	STORM DRAIN	(0.00) C.O. INV.	0.00 C.O. INV. CLEANOUT INVERT ELEV.
-E#-	POWER LINE/POWER POLE		0.00 FL FLOW LINE
-T-	TELEPHONE LINE	(0.00) FG	0.00 FG FINISH GRADE
	FIRE HYDRANT	(0.00) TC	0.00 TC TOP OF CURB
	WATER VALVE	(0.00) TOW	0.00 TOW TOP OF WALL
	METERS/PULL BOXES		GATE
	REDUCER		SIGN
	MANHOLE	STREET LIGHTS	
CO	CLEANOUT		100 W H.P.S.
(00)	CONTOUR		150 W H.P.S.
	A.C. PAVING		200 W H.P.S.
	TYPE "L" CURB & GUTTER		250 W H.P.S.
	TYPE "A" CURB		
	CONCRETE		

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. Call before you Dig— 1-800-227-2600 UNDERGROUND SERVICE ALERT (U.S.A.)

AVOID OVERHEAD POWER LINE CONTACT Call before you OVERHEAD 1-702-563-6111 NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND WHAT EXIST IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT, OWNER'S REPRESENTATIVE OR ENGINEER IMMEDIATELY.

REV	DATE	BY	REVISION
1	7-29-99		ELIMINATE ONE (1) COLUMN PER BUILDING DEPT. REQUEST.

KOPPE & KOPPE
530 E. THIRD STREET
LAS VEGAS, NEVADA 89101
(702) 382-3553

LOCHSA ENGINEERING
5828 SPRING MTN. RD. SUITE 308
LAS VEGAS, NEVADA 89101
(702) 365-9312 FAX (702) 365-9317

TITLE: UTILITY PLAN — KOPPE AND KOPPE OFFICE BUILDING

DRAWN BY: J.C.U.	6/15/99	SCALE: 1" = 10'
DESIGNED BY: J.D.O.	6/15/99	
CHECKED BY: M.L.H.	6/15/99	PROJECT NO. 6184

SEAL: PROFESSIONAL ENGINEER - STATE OF NEVADA — MARK L. HEDGE — CIVIL — No. 8445

SHEET C5 — 5 OF 6 SHEETS

DRAWING NO. 107-Y3100

16685 (SV) 17257

J:\cad\6184\IMPROV2\6184ut.dwg Tue Jun 15 11:09:17 1999 A.M.R.

FOURTH STREET (PUBLIC)

ALLEY (PUBLIC)

LEGEND

UTILITY PLAN

KOPPE AND KOPPE
OFFICE BUILDING

KOPPE & KOPPE

LOCHBA ENGINEERING