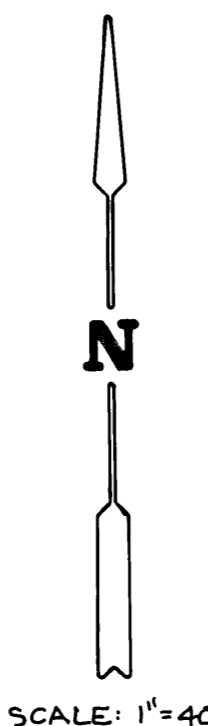
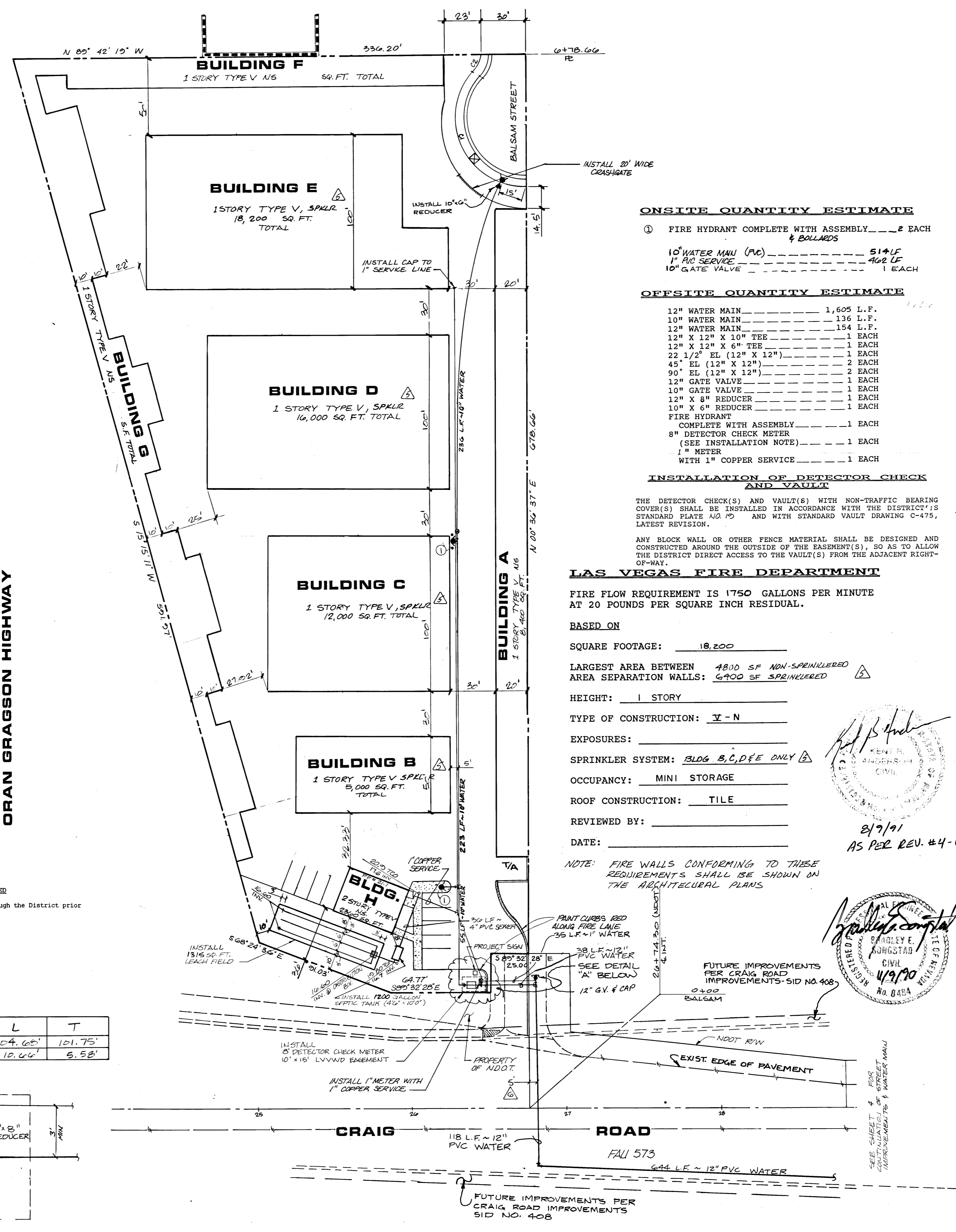


VICINITY MAP



SCALE: 1"=40'

ORAN GRAGSON HIGHWAY



ONSITE QUANTITY ESTIMATE

- ① FIRE HYDRANT COMPLETE WITH ASSEMBLY & BALLARDS _____ 2 EACH
- 10" WATER MAIN (AC) _____ 514 LF
- 1" AC SERVICE _____ 408 LF
- 10" GATE VALVE _____ 1 EACH

OFFSITE QUANTITY ESTIMATE

- 12" WATER MAIN _____ 1,605 L.F.
- 10" WATER MAIN _____ 136 L.F.
- 12" WATER MAIN _____ 154 L.F.
- 12" X 12" X 10" TEE _____ 1 EACH
- 12" X 12" X 6" TEE _____ 1 EACH
- 22 1/2" EL (12" X 12") _____ 1 EACH
- 45" EL (12" X 12") _____ 2 EACH
- 90" EL (12" X 12") _____ 2 EACH
- 12" GATE VALVE _____ 1 EACH
- 10" GATE VALVE _____ 1 EACH
- 12" X 8" REDUCER _____ 1 EACH
- 10" X 6" REDUCER _____ 1 EACH
- FIRE HYDRANT COMPLETE WITH ASSEMBLY _____ 1 EACH
- 8" DETECTOR CHECK METER (SEE INSTALLATION NOTE) _____ 1 EACH
- 1" METER _____ 1 EACH
- WITH 1" COPPER SERVICE _____ 1 EACH

INSTALLATION OF DETECTOR CHECK AND VAULT

THE DETECTOR CHECK(S) AND VAULT(S) WITH NON-TRAFFIC BEARING COVER(S) SHALL BE INSTALLED IN ACCORDANCE WITH THE DISTRICT'S STANDARD PRACTICE NO. 25 AND WITH STANDARD VAULT DRAWING S-475, LATEST REVISION.

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.

LAS VEGAS FIRE DEPARTMENT

FIRE FLOW REQUIREMENT IS 1750 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL.

BASED ON
 SQUARE FOOTAGE: 118,200
 LARGEST AREA BETWEEN: 4800 SF NON-SPRINKLERED
 AREA SEPARATION WALLS: 6900 SF SPRINKLERED

HEIGHT: 1 STORY
 TYPE OF CONSTRUCTION: V-N
 EXPOSURES: _____
 SPRINKLER SYSTEM: BLDG. B, C, D, E ONLY
 OCCUPANCY: MINI STORAGE
 ROOF CONSTRUCTION: TILE

REVIEWED BY: _____
 DATE: 8/7/91 AS PER REV. #4-6

NOTE: FIRE WALLS CONFORMING TO THESE REQUIREMENTS SHALL BE SHOWN ON THE ARCHITECTURAL PLANS



LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

1. NO WORK SHALL BEGIN ON THE WATER PLANS UNTIL THEY HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING APPROVAL OF THE PLANS, NOTICE MUST BE GIVEN TO THE LVVWD CUSTOMER SERVICE DEPARTMENT (870-4194), 48 HOURS PRIOR TO ACTUAL CONSTRUCTION AND 24 HOURS PRIOR TO AN INSPECTION.
2. CALL BEFORE YOU DIG 1/800/227-2600.
3. ALL WORK SHALL CONFORM TO LVVWD LATEST STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS.
4. ALL WORK, EXCEPT AS MODIFIED HEREON OR BY NOTE 3, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR ADDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA.
5. DISTRICT APPROVED SERVICE SADDLES OR TAPPED COLLARS SHALL 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.
6. COPPER SERVICE LATERALS: ALL 3/4" TO 2" SERVICE LATERALS SHALL BE OF COPPER TUBING IN ACCORDANCE WITH THE DISTRICT SPECIFICATION TITLED "3502 - COPPER WATER TUBING".
7. THE MAXIMUM ALLOWABLE JOINT DEFLECTION FOR ACP AND DUCTILE IRON PIPE SHALL BE AS FOLLOWS:

PIPE SIZES	ACP	DUCTILE IRON SLIP JOINT	DUCTILE IRON MECHANICAL JOINT
6 INCH	2.5 DEGREES	2.5 DEGREES	3.5 DEGREES
8 - 12 INCH	2.5 DEGREES	2.5 DEGREES	2.5 DEGREES
14 - 16 INCH	2.0 DEGREES	1.5 DEGREES	1.5 DEGREES
18 - 24 INCH	N/A	1.5 DEGREES	1.5 DEGREES

ON PVC PIPE, THE MAXIMUM OFFSET FOR A 20' LENGTH OF FACTORY BELLED PIPE SHALL BE 16 INCHES FOR 6" PIPE, 12 INCHES FOR 8" PIPE, AND 9 INCHES FOR 10" AND 12" PIPE.

IF THESE OFFSETS CONFLICT WITH THE PIPE MANUFACTURERS RECOMMENDATION, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

8. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.

9. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS AND VALLEY GUTTERS.

10. DETECTOR TAPE SHALL BE REQUIRED IN ACCORDANCE WITH STANDARD PLATE NO. 27 WHERE INDICATED, AND AS FOLLOWS:

- A) OVER ALL MAINS NOT INSTALLED 6 FEET FROM BACK OF CURB.
- B) OVER ALL SERVICE LATERALS NOT INSTALLED AT RIGHT ANGLES TO MAIN.

11. ALL WATER MAINS SHALL BE PRESSURE TESTED AT 200 PSI FOR A CONTINUOUS TWO HOUR PERIOD IN ACCORDANCE WITH DISTRICT STANDARDS.

12. ALL WATER MAINS SHALL BE DISINFECTED & FLUSHED, AND AN ACCEPTABLE HEALTH SAMPLE OBTAINED, PRIOR TO THE CONNECTION OF THE WATER MAIN(S) AND/OR LATERAL(S) TO THE DISTRICT'S SYSTEM.

13. CONTRACTOR TO OBTAIN ALL METERS 3" AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.

APPROVAL

LAS VEGAS VALLEY WATER DISTRICT
 APPROVAL: [Signature] 11-15-90
 DATE

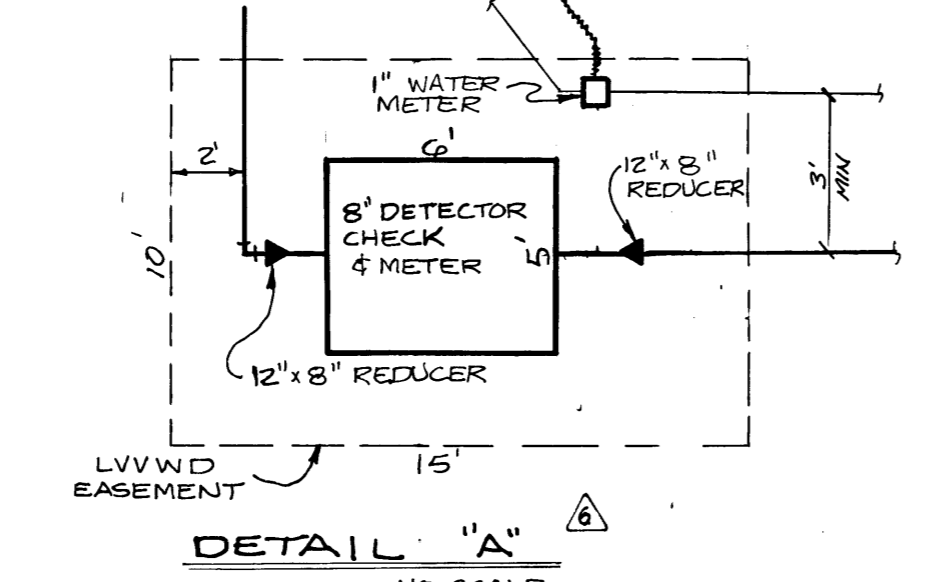
APPROVAL

CITY OF LAS VEGAS FIRE DEPARTMENT
 APPROVAL: [Signature] 10/12/90
 DATE

NEVADA DEPARTMENT OF TRANSPORTATION (NDOT) PERMIT REQUIRED
 An approved NDOT Occupancy Permit shall be obtained through the District prior to any construction within the NDOT right-of-way.

CURVE DATA

NO.	Δ	R	L	T
C1	131° 46' 50"	45.5'	104.68'	101.75'
C2	42° 07' 24"	14.5'	10.66'	8.58'



DETAIL "A" NO SCALE

REVISION NO.	DESCRIPTION	BY	DATE	APPROVAL
1	RELOCATE WATERLINE PER N.D.O.T.	HM	8-23-91	[Signature]
2	REV. SQ. FT. G. PER FIRE FLOW REQMTS	RRS	8-20-91	[Signature]
3	RELOCATE WATERLINE & ADD FUTURE IMPROVEMENTS	HM	8-9-91	[Signature]
4	RELOCATION OF LVVWD EASEMENT INCL. METERS & LINES, PROJECT SIGN, & 12" WATERLINE. REV'D QUANTITIES. (SEE SHEET 4)	TB	12-5-90	[Signature]

McFADDEN MINI STORAGE
HORIZONTAL CONTROL SHEET & UTILITY PLAN
 LAS VEGAS NEVADA
 SCALE (H)=40' SCALE (V) _____
 DES. BY: BBS
 DR. BY: BBS
 CHK. BY: BBS
 JOB NO. 2562
 SHEET 3 OF 4