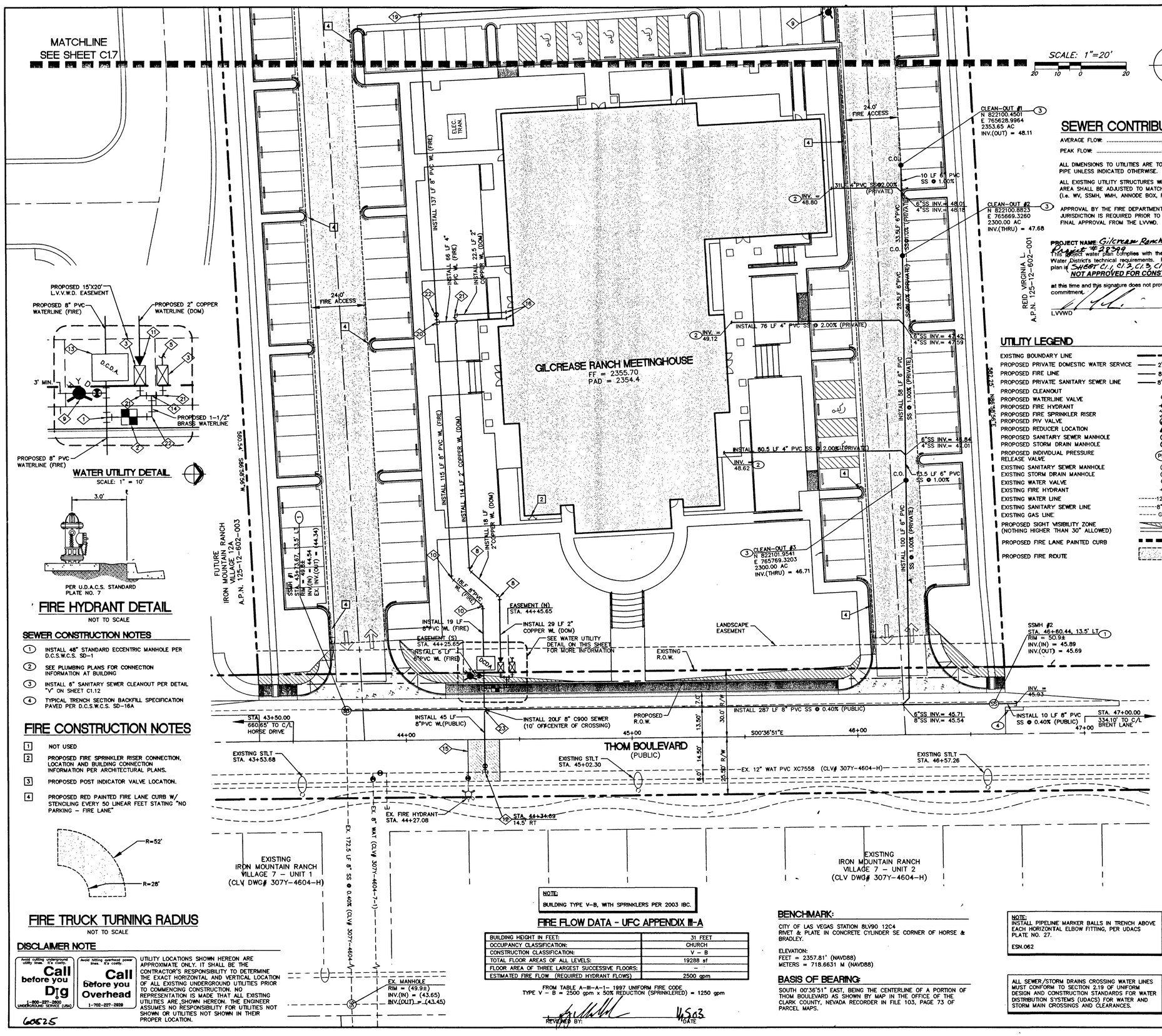


WATER UTILITY DETAIL

SCALE: 1" = 10'

FIRE HYDRANT DETAIL

NOT TO SCALE

SEWER CONTRIBUTION TABLE

AVERAGE FLOW: ..... 0.0190 MGD

PEAK FLOW: ..... 0.0627 MGD

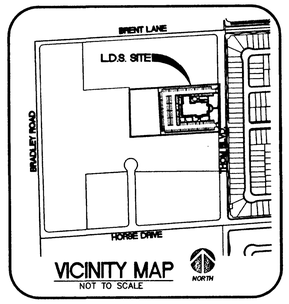
ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.

ALL EXISTING UTILITY STRUCTURES WITHIN CONSTRUCTION AREA SHALL BE ADJUSTED TO MATCH FINISH GRADE (i.e. WV, SSMH, WMH, ANNODE BOX, FH, TEL BOX, ETC.)

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LVVWD.

PROJECT NAME: Gilcrease Ranch Meetinghouse
Project #28309
This project water plan complies with the Las Vegas Valley Water District's technical requirements. However, this water plan is SW68T C1.1, C1.2, C1.3, C1.6, C1.7, C1.10
NOT APPROVED FOR CONSTRUCTION
at this time and this signature does not provide or imply a water commitment.

LVVWD — DATE 10/30/03 — ESN.052



VICINITY MAP

NOT TO SCALE

WATER CONSTRUCTION NOTES

1. INSTALL 8" X 1-1/2" SERVICE SADDLE AND 1-1/2" TYPE K COPPER SERVICE LATERAL PER UDACS PL# 1D
2. INSTALL 1-1/2" WATER METER (DOMESTIC) PER UDACS PLATE NO. 1D.
3. INSTALL DUAL 1-1/2" RPPA WITH ENCLOSURE PER UDACS PLATE NO. 11A (DOMESTIC-SOUTH)(IRRIGATION-NORTH)
4. NOT USED
5. SEE LANDSCAPE PLANS FOR IRRIGATION CONNECTION.
6. INSTALL 8"X6" REDUCER
7. NOT USED
8. INSTALL 2" COPPER - 45° BENDS
9. INSTALL FIRE HYDRANT COMPLETE ASSEMBLY (8"X6" TEE, 6" GATE VALVE, AND FIRE HYDRANT) PER UDACS PLATE NO. 7.
10. INSTALL 8" 45° BEND WITH THRUST BLOCK PER UDACS PLATE NO. 5.
11. INSTALL 1-1/2" X 2" REDUCER
12. INSTALL 12" X 8" TAPPING TEE WITH 8" TAPPING VALVE PER UDACS PLATE #22.
13. INSTALL 8" FEBCO MODEL # 876V D.C.D.A. PER U.D.A.C.S. PLATE NO. 11C. INSTALL WITHIN A 15'X20' L.V.V.W.D. UTILITY EASEMENT.
14. INSTALL 1-1/2" BRASS TEE PER UDACS PLATE NO. 11B
15. SAWCUT 14' WIDTH PATCH OF EXISTING PAVEMENT AND BACKFILL PER C.C.U.A.S.D. DWG. NO. 504. MUST MEET UDACS REQUIREMENTS PER TRENCH BACKFILL PL# 6B - STREET R.O.W. ONLY 55.50'
16. SEE PLUMBING PLANS FOR CONNECTION AT BUILDING.
17. INSTALL FIRE HYDRANT PER UDACS PLATE NO. 7
18. INSTALL 6" GATE VALVE
19. INSTALL 8" - 90° BEND, COMPLETE WITH THRUST BLOCK PER UDACS PLATE NO. 5.
20. INSTALL 8" X 4" TEE WITH THRUST BLOCK PER UDACS PLATE NO. 5
21. INSTALL 1-1/2" BRASS - 90° BEND PER UDACS PL# 11B
22. INSTALL 1-1/2" BRASS - 90° BEND
23. INSTALL CLASS II CLSM AT THE SEWER/WATER LINE CROSSING PER NOTE ESN.042

UTILITY LEGEND

EXISTING BOUNDARY LINE	
PROPOSED PRIVATE DOMESTIC WATER SERVICE	2"W
PROPOSED FIRE LINE	8"W
PROPOSED PRIVATE SANITARY SEWER LINE	8"SS
PROPOSED CLEANOUT	
PROPOSED WATERLINE VALVE	
PROPOSED FIRE HYDRANT	
PROPOSED FIRE SPRINKLER RISER	
PROPOSED PIV VALVE	
PROPOSED REDUCER LOCATION	
PROPOSED SANITARY SEWER MANHOLE	
PROPOSED STORM DRAIN MANHOLE	
PROPOSED INDIVIDUAL PRESSURE RELEASE VALVE	PRV
EXISTING SANITARY SEWER MANHOLE	
EXISTING STORM DRAIN MANHOLE	
EXISTING WATER VALVE	
EXISTING FIRE HYDRANT	
EXISTING WATER LINE	12"W
EXISTING SANITARY SEWER LINE	8"SS
EXISTING GAS LINE	GAS
PROPOSED SIGHT VISIBILITY ZONE (NOTHING HIGHER THAN 30" ALLOWED)	
PROPOSED FIRE LANE PAINTED CURB	
PROPOSED FIRE ROUTE	

SEWER CONSTRUCTION NOTES

1. INSTALL 48" STANDARD ECCENTRIC MANHOLE PER D.C.S.W.C.S. SD-1
2. SEE PLUMBING PLANS FOR CONNECTION INFORMATION AT BUILDING
3. INSTALL 6" SANITARY SEWER CLEANOUT PER DETAIL "V" ON SHEET C1.12
4. TYPICAL TRENCH SECTION BACKFILL SPECIFICATION PAVED PER D.C.S.W.C.S. SD-16A

FIRE CONSTRUCTION NOTES

1. NOT USED
2. PROPOSED FIRE SPRINKLER RISER CONNECTION, LOCATION AND BUILDING CONNECTION INFORMATION PER ARCHITECTURAL PLANS.
3. PROPOSED POST INDICATOR VALVE LOCATION.
4. PROPOSED RED PAINTED FIRE LANE CURB W/ STENCILING EVERY 50 LINEAR FEET STATING "NO PARKING - FIRE LANE"

FIRE TRUCK TURNING RADIUS

NOT TO SCALE

DISCLAIMER NOTE

Avoid cutting underground utility lines. It's costly.
Call before you Dig
1-800-227-2600 UNDERGROUND SERVICE (USA)

Avoid hitting overhead power lines. It's costly.
Call before you Overhead
1-702-227-2929

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

60625

NOTE:
BUILDING TYPE V-B, WITH SPRINKLERS PER 2003 IBC.

FIRE FLOW DATA - UFC APPENDIX III-A

BUILDING HEIGHT IN FEET:	31 FEET
OCCUPANCY CLASSIFICATION:	CHURCH
CONSTRUCTION CLASSIFICATION:	V - B
TOTAL FLOOR AREAS OF ALL LEVELS:	19288 sf
FLOOR AREA OF THREE LARGEST SUCCESSIVE FLOORS:	-
ESTIMATED FIRE FLOW (REQUIRED HYDRANT FLOWS)	2500 gpm

FROM TABLE A-III-A-1- 1997 UNIFORM FIRE CODE
TYPE V - B = 2500 gpm x 50% REDUCTION (SPRINKLERED) = 1250 gpm

REVIEWED BY: — DATE 11.5.03

BENCHMARK:

CITY OF LAS VEGAS STATION 8LV90 12C4
RIVET & PLATE IN CONCRETE CYLINDER SE CORNER OF HORSE & BRADLEY.

ELEVATION:
FEET = 2357.81' (NAVD88)
METERS = 718.6631 M (NAVD88)

BASIS OF BEARING:

SOUTH 00°36'51" EAST, BEING THE CENTERLINE OF A PORTION OF THOM BOULEVARD AS SHOWN BY MAP IN THE OFFICE OF THE CLARK COUNTY, NEVADA RECORDER IN FILE 103, PAGE 73 OF PARCEL MAPS.

NOTE:
INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 27.

ESN.062

ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.19 OF UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

CONTROLLED LOW STRENGTH MATERIAL (CLSM)

PROTECT WATERLINES IN PLACE. WHEREVER A WATERLINE IS ABOVE A STORM DRAIN OR SEWER WHERE COMPACTION REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL TRENCH WITH CLASS II CONTROLLED LOW STRENGTH MATERIAL (CLSM) TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIEMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.19

ESN.042

WATER MAIN JOINT DEFLECTION (PVC, 4" - 24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.06.01 AND 2.06.02.

FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

ESN.059

DUAL REDUCED PRESSURE PRINCIPLE ASSEMBLY (2) 1-1/2"

APPROVED DUAL REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 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) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENT SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

ESN.034

DOUBLE CHECK DETECTOR ASSEMBLY 1 - (8")

THE DOUDLE CHECK DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 11C

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.

EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

ESN.006

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT — DATE:

REV.	DATE	BY	REVISION

GARY W. MILLER
624 SOUTH 9th STREET
LAS VEGAS, NEVADA 89101
(702) 434-9695 FAX: (702) 434-9815

WRG DESIGN INC
2280 Corporate Circle, Ste 430 Henderson, NV 89014
☎ 702 990-9300 FAX: 702 990-9305
PLANNERS • ENGINEERS • LANDSCAPE ARCHITECTS • SURVEYORS

UTILITY AND FIRE CONTROL PLAN
GILCREASE RANCH MEETINGHOUSE

CITY OF LAS VEGAS, CLARK COUNTY, NEVADA

DATE	08/22/03	SCALE:	1"=20' HORIZ
DESIGNED	J. COWART		NONE VERT
CHECKED	G. BARGULL	WRG PROJECT NO:	3033195.00
ENGINEER	M. BAILEY		

PROFESSIONAL ENGINEER — MICHAEL P. BAILEY — EXP. 12/31/04 — CIVIL — No. 10264 — STATE OF NEVADA
MICHAEL P. BAILEY

SHEET TITLE: UTILITY AND FIRE CONTROL
SHEET NUMBER: C1.6
SHEET 6 OF 12
CLV DRAWING NO. 107V3867