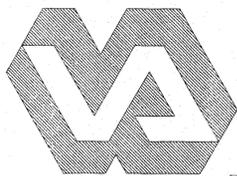


GENERAL NOTES

- DURING THE EXECUTION OF THIS CONTRACT, THE BUILDING WILL BE OCCUPIED AND IN USE. WORK DONE UNDER THIS CONTRACT SHALL BE PERFORMED WITHOUT INCONVENIENCE TO THE VA INsofar AS POSSIBLE. ALL FURNISHINGS, OF WHATEVER NATURE, SHALL BE PROTECTED AT ALL TIMES. TEMPORARY BARRIERS SHALL BE CREATED BY THE CONTRACTOR TO SEPARATE THE WORK AREAS FROM THE PATIENT AREAS. THE CONTRACTOR SHALL REVIEW THE PHASING THAT WILL BE ALLOWED FOR THIS PROJECT AS WELL AS WHERE AND WHEN HE MAY PERFORM ALL HIS WORK INCLUDING INSTALLATION, FABRICATION, RIGGING, ERECTION, STORAGE, ETC.
- PROVIDE ADEQUATE FIRE PROTECTION IN THE ENTIRE CONSTRUCTION AREA FOR THE DURATION OF THE CONSTRUCTION PERIOD. ALL WORK SHALL BE CONDUCTED WITH THE DAILY APPROVAL OF THE VA SAFETY OFFICER WHO SHALL BE CONTINUOUSLY APPRAISED AS TO WHAT SYSTEMS ARE IN SERVICE AND OUT OF SERVICE.
- ALL EXISTING PIPING, HANGERS, EQUIPMENT, ETC., NOT TO BE REUSED SHALL BE REMOVED.
- THE FIRE ALARM CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR MAKING THE FIRE ALARM SYSTEM COMPLETE AND FULLY OPERABLE. THE CONTRACTOR SHALL BE NOTIFIED WHEN THE SYSTEM HAS BEEN COMPLETELY CHECKED OUT, ADJUSTED, CALIBRATED AND PUT IN FINAL WORKING CONDITION. A SUBSEQUENT JOBSITE MEETING WILL BE SCHEDULED AT WHICH TIME THE FIRE ALARM CONTRACTOR WILL DEMONSTRATE THE OPERATION OF THE FIRE ALARM SYSTEMS TO ALL CONCERNED. THIS PROVISION SHALL BE A CONDITION OF FINAL ACCEPTANCE.
- ALL WORK SHOWN IS NEW UNLESS SPECIFICALLY NOTED AS EXISTING.
- THE FLOOR AREAS BELOW OVERHEAD WORK, WHERE WELDING "HOT WORK" IS TO BE PERFORMED, SHALL BE CLEARED TO A MINIMUM DISTANCE OF 10 FEET BEYOND THE POINT DIRECTLY BELOW THE OVERHEAD "HOT WORK". ALL FLAMMABLE MATERIALS SHALL BE CLEARED TO A DISTANCE 20 FEET BEYOND THE POINT DIRECTLY BELOW THE OVERHEAD "HOT WORK". ANY SUCH WORK SHALL BE APPROVED BY THE VA'S SAFETY OFFICER AND A HOT WORK PERMIT ISSUED.
- THE ENTIRE EXISTING FIRE PROTECTION SYSTEM SHALL BE RESTORED TO FULL OPERATION AT THE END OF EACH WORKING DAY. FOR ANY EXISTING SYSTEMS THAT WILL NOT BE RESTORED TO FULL OPERATION AT THE END OF A WORK DAY, THE CONTRACTOR SHALL NOTIFY THE VA SAFETY OFFICER IN WRITING OF THE STATUS OF ANY NON-WORKING SYSTEM BEFORE THE END OF THAT WORK DAY.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL OFFSETS UP TO THIRTY INCHES TO MISS EXISTING FEATURES, AT NO COST TO THE OWNER. ALL CODE REQUIREMENTS MUST STILL BE MET.
- THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE, ALTHOUGH NO ATTEMPT WAS MADE TO SHOW EVERY OFFSET, FITTING, BEAM, PIPE SUPPORT ETC. CHANGES REQUIRED TO FIT EQUIPMENT AND PIPING SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. ANY MAJOR DISCREPANCIES SHALL BE CLARIFIED PRIOR TO SUBMITTAL OF BID.
- PIPING AND HEADS: THE FIRE SPRINKLER SYSTEM SHOWN ON THE DRAWINGS REPRESENTS ONE SYSTEM THAT WILL WORK WITH MINOR PIPING AND HEAD ADJUSTMENTS FOR EXISTING CONDITIONS. THE PIPING SHOWN ON THE DRAWINGS CAN BE INSTALLED APPROXIMATELY AS INDICATED. THE PIPE SIZES SHOWN SATISFY THE HYDRAULIC CALCULATIONS THAT HAVE BEEN PREPARED BY THE DESIGN ENGINEERS. THE ACCURACY OF THE PIPE LOCATIONS SHOWN IS +/- 30 INCHES. THE ACCURACY OF THE HEAD LOCATIONS SHOWN IS +/- 12 INCHES. THE CONTRACTOR MAY USE THIS ROUTING OR HE MAY USE ANY OTHER ACCEPTABLE ROUTING. THE CONTRACTOR SHALL PREPARE NEW HYDRAULIC CALCULATIONS AND SHOP DRAWINGS FOR THE SYSTEM THAT HE INTENDS TO INSTALL (RESPECTIVE OF DESIGN). THE CONTRACTOR SHALL LOCATE THE HEADS AS SHOWN AND MAKE MINOR ADJUSTMENTS FOR EXISTING FIXTURES, CEILING STRUCTURE, ETC. OTHER HEAD LOCATIONS AND PIPING ARRANGEMENTS ARE ACCEPTABLE THAT MEET THE CODE REQUIREMENTS AND THE CONTRACTOR'S HYDRAULIC CALCULATIONS. THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE SYSTEM THAT IS INSTALLED.
- ALL EXISTING SPRINKLERS SHALL BE REPLACED AS SHOWN ON THE DRAWINGS. THE EXISTING FIRE SPRINKLER PIPING CAN BE UTILIZED IN THE NEW INSTALLATION IF ALLOWED BY THE CONTRACTOR'S RE-DESIGN AND HYDRAULIC CALCULATIONS. ALL EXISTING FIRE SPRINKLER PIPING TO REMAIN IN SERVICE MUST BE SHOWN ON THE SHOP DRAWINGS AND SHALL BE CONNECTED TO THE NEW PIPING. ALL EXISTING FIRE SPRINKLER PIPING NOT TO BE REUSED SHALL BE REMOVED.
- ALL NEW HORIZONTAL SPRINKLER PIPING SHALL BE INSTALLED ABOVE CEILING UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL EXAMINE ALL THE STRUCTURAL AND UTILITY DESIGN DRAWINGS, SHOP DRAWINGS AND AS-BUILT DRAWINGS AT THE FACILITY, OF THE EXISTING CONDITIONS PRIOR TO EXCAVATING OR CUTTING INTO BUILDING SURFACES TO AVOID DAMAGING ANY UTILITY, PIPE, CONDUIT, DUCT, ETC. OR STRUCTURAL MEMBERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUBSEQUENT DAMAGE AND THE COST OF REPAIR AND RESTORATION TO THE PRIOR CONDITION.
- THE CONTRACTOR SHALL DEVELOP A SCHEDULE OF DEMOLITION, NEW INSTALLATION AND CHANGEOVER OF THE FIRE ALARM, DETECTION, SPRINKLER AND MECHANICAL SYSTEMS THAT WILL ALLOW FOR MINIMUM DOWNTIME. THE OWNER SHALL BE PRESENTED WITH ALL PHASING, STAGING AND SEQUENCING OF WORK DEVELOPED BY THE CONTRACTOR FOR APPROVAL PRIOR TO THE COMMENCEMENT AND IMPLEMENTATION OF HIS WORK.
- REMOVE T-BARS, 2" SPLINE, AND 2" X 4" CEILING PANELS AS REQUIRED FOR THE DEMOLITION. REINSTALL EXISTING OR REPLACE WITH NEW AS REQUIRED TO THE SATISFACTION OF THE CONTRACTING OFFICER. REPAIR DAMAGE TO CEILING, WALLS, ETC. TO THE SATISFACTION OF THE CONTRACTING OFFICER.
- CONTRACTOR TO MAINTAIN CLEARANCES FROM ALL EXISTING EQUIPMENT.
- ALL EXISTING FIRE HOSE CABINETS SHALL REMAIN AS-IS.
- WARNING!! THERE IS ASBESTOS CONTAINING MATERIALS IN THE CEILING SPACES AND AT OTHER LOCATIONS AT THE JOBSITE. AN ASBESTOS REPORT IS AVAILABLE FOR REVIEW FROM THE RESIDENT ENGINEER. IT IS NOT INTENDED THAT THIS IS AN ABATEMENT PROJECT. IT IS INTENDED THAT THE CONTRACTOR CAN DO HIS WORK WITHOUT DISTURBING ANY ASBESTOS CONTAINING MATERIALS. IF THE CONTRACTOR OBSERVES ANY MATERIALS THAT MAY CONTAIN ASBESTOS, AND, IN HIS OPINION, WILL BE IN THE WAY OF HIS WORK, HE SHOULD STOP WORK AND NOTIFY THE RESIDENT ENGINEER WHO WILL MAKE A DETERMINATION AND ABATE THE AREA IF NECESSARY. THE CONTRACTOR SHALL REFRAIN FROM WORK IN THESE AREAS UNTIL THEY ARE PRONOUNCED CLEAR. THERE SHALL BE NO EXTRA COMPENSATION TO THE CONTRACTOR FOR DELAYS WHILE AREAS ARE ABATED.
- THE CONTRACTOR IS ADVISED THAT IN AREAS CONGESTED WITH DUCTWORK, PIPING, ETC. IT MAY BE NECESSARY TO INSTALL ONE OR MORE TRAPEZE HANGERS TO SUPPORT THE NEW WORK INDEPENDENTLY FROM THE STRUCTURE. THIS MAY ALSO BE REQUIRED IN AREAS WHERE THERE IS AN EXISTING ABANDONED CEILING ABOVE THE FINISHED CEILING.
- ALL VISIBLE WALL PENETRATIONS SHALL BE FINISHED WITH ESCUTCHEON PLATES.
- INSTALL COMPLETE SIGNAGE PER NFPA THROUGHOUT THE ENTIRE AREA OF THE SCOPE OF WORK FOR ALL NEW AND EXISTING SYSTEMS.
- TYPICAL FOR EACH PHASE OF THIS PROJECT: AFTER ACCEPTANCE OF EACH PHASE BY THE CONTRACTING OFFICER, ALLOW ONE (1) WORKING DAY FOR VA PERSONNEL TO VACATE THE NEXT PHASE. FURNISHINGS AND EQUIPMENT WILL BE LEFT IN THE VACATED ROOMS/AREAS. CONTRACTOR SHALL COVER/PROTECT THESE ITEMS FROM DAMAGE WHILE WORKING IN THE AREAS.
- DURING THE CONTRACTOR SHALL MAINTAIN A FOUR (4) FOOT CLEAR PATH IN CORRIDOR(S) WHERE WORK OCCURS, FOR HOSPITAL USE.



FIRE SPRINKLER SYSTEM PROJECT NO. 570-97-109 VA MEDICAL CENTER 2615 EAST CLINTON AVE. FRESNO, CALIFORNIA 93703

INDEX OF DRAWINGS

DRAWING	DESCRIPTION
1 OF 15	TITLE SHEET
2 OF 15	SITE PLAN - FOR REFERENCE ONLY
3 OF 15	SUB-BASEMENT FLOOR PLAN - FOR REFERENCE ONLY
4 OF 15	BASEMENT OUT PATIENT
5 OF 15	FIRST FLOOR OUTPATIENT
6 OF 15	SECOND FLOOR EAST
7 OF 15	SECOND FLOOR WEST
8 OF 15	THIRD FLOOR EAST
9 OF 15	THIRD FLOOR WEST
10 OF 15	FOURTH FLOOR EAST
11 OF 15	FOURTH FLOOR WEST
12 OF 15	FIFTH FLOOR EAST
13 OF 15	FIFTH FLOOR WEST
14 OF 15	SIXTH FLOOR WEST
15 OF 15	SEVENTH FLOOR

LEGEND

(E)	EXISTING ACTIVE PENDENT SPRINKLER HEAD
	EXISTING INACTIVE SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	PENDENT SPRINKLER HEAD
	SPRINKLER HEAD EXTENDED FROM EXISTING LOCATION
	DRY PENDENT SPRINKLER HEAD USED IN WALK-IN REFRIGERATOR
	WET STANDPIPE
	TAMPER PROOF INSTITUTIONAL SPRINKLER HEAD
	TEST HEADER
	EXISTING SIDEWALL SPRINKLER
	SIDEWALL SPRINKLER
	GROOVED COUPLING
	JOCKEY PUMP
	RISER OR DROP
	PIPE DROP TO NEW ELEVATION
	WATER FLOW SWITCH
	BALL OR GATE VALVE (SEE SPEC 15500)
	EXISTING PIPE
	NEW PIPE
	POC (POINT OF CONNECTION)
	PUMP
	REDUCER
	CHECK VALVE
	PRESSURE REDUCING VALVE
	MONITORED O.S. & Y. OR INDICATING BALL OR GATE VALVE (SEE SPEC 15500)
	MONITORED O.S. & Y. VALVE
	O.S. & Y. OR INDICATING BALL OR GATE VALVE (SEE SPEC 15500)
	TEST AND DRAIN VALVE
	END CAP
	CAP
	FIRE PARTITION
	INDICATES AREA WHERE EXISTING CONTROL VALVES, FLOW SWITCHES AND TEST CONNECTION ARE TO BE REMOVED AND SYSTEMS CONNECTED TOGETHER. REMOVE EXISTING SUPPLY, CUT AND REPAIR CEILING AS REQUIRED FOR ACCESS AND REMOVAL OF PIPE.

ABBREVIATIONS

(A)	(E) FIRE ALARM DATA LOOP, SEE DWG 1-FP-12
AC	ACOUSTICAL TILE IN T-BAR GRID
AMP	AMPERE
BRKR	BREAKER
CONC.	CONCRETE
CP	CEMENT/PLASTER AND WIRE LATH CEILING
DN	DOWN
EXP	EXPOSED CEILING
(E)	EXISTING
FM	FIRE MAIN
FDC	FIRE DEPARTMENT CONNECTION
FS	FIRE SPRINKLER
HP	HORSEPOWER
KVA	KILO-VOLT-AMP
KW	KILOWATT
MCC	MOTOR CONTROL PANEL
MTD	MOUNTED
(N)	NEW
NTS	NOT TO SCALE
Ø	PHASE
POC	POINT OF CONNECTION
XFMR	TRANSFORMER
WP	WEATHERPROOF
W	WIRE

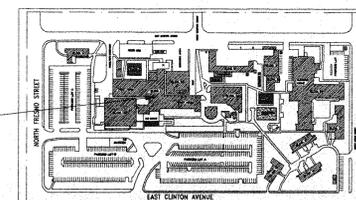
LEGEND CONT...

	TO BE REMOVED
	WALL PENETRATION (CONCRETE CORING REQUIRED)
	FLOOR PENETRATION (CONCRETE CORING REQUIRED)
	FIRE PARTITION
	CEILING HEIGHT
	CEILING DESIGNATION
	MATERIAL DESIGNATION

GENERAL SPRINKLER NOTES

- THIS PLAN DETAILS THE FIRE SPRINKLER INSTALLATION FOR VA MEDICAL FRESNO.
- SYSTEM DESIGN CRITERIA: (DENSITIES NOTED ON PLANS)
- JURISDICTION HAVING AUTHORITY: DVA
- BUILDING CONSTRUCTION TYPE: NON-COMBUSTIBLE
- BUILDING OCCUPANCY: HOSPITAL ADMIN/PATIENT CARE/LABORATORY
- BUILDING AREA: SQ. FT.
- WATER FLOW DATA: (SEE PUMP DATA)
- ALL FIRE SPRINKLER SYSTEM DESIGN AND INSTALLATION TO BE IN ACCORDANCE WITH NFPA 13, 14 AND 20 (1996 ED) STANDARDS AND THE SPECIFICATIONS.
- MAIN FITTING NOTES:
 - ALL SPRINKLER MAIN PIPING TO BE SCH40
 - ALL MAIN OUTLETS TO BE UL LISTED WELDED BRANCHLETS (GROOVED AND OR FEMALE THREADED).
 - ALL WELDING TO BE PERFORMED IAW NFPA 13 2-5.2 FOR INSPECTION AS NECESSARY. WELDER TO STAMP ALL WELDS.
 - ALL MAIN FITTINGS TO BE GROOVED
 - ALL MAIN COUPLINGS TO BE GROOVED, NON-FLEXIBLE, IAW.
- BRANCH LINE FITTING NOTES:
 - THREADED BRANCH LINE PIPING 1" - 2" TO BE SCH40
 - WALL WITH STANDARD HEIGHT (28") SCREWED CAST IRON FITTINGS. WELDED BRANCH LINE FITTING 1" - 2" TO BE SCH40 OR FLAN TREATED ENDS, FASTENED WITH LT. WT. GROOVED PLUS-8 OR LISTED SLIP FITTINGS.
- ALL FIRE SPRINKLER SYSTEM EQUIPMENT TO BE LABORATORY (LJ) LISTED OR FACTORY MUTUAL (FM) APPROVED AND CONSISTENT WITH NFPA 13.
- ALL FIRE HANGERS TO BE IAW NFPA 13 1996 ED.
- ALL SHAY (EARTHQUAKE) BRACING SIZE, LOCATION, SPACING, AND CONNECTIONS TO BE IN ACCORDANCE WITH NFPA 13 1996 ED.
- SPRINKLERS INSTALLED IN ACOUSTICAL TILE CEILING ARE NOT NECESSARILY INSTALLED IN THE CENTER OF TILE.
- GROOVED FIRE SPRINKLER SYSTEMS TO BE EQUIPPED WITH AN APPROVED FRV.
- PROVIDE WALL PLATES AT ALL EXPOSED WALL AND CEILING PENETRATIONS.

LOCATION MAP



AS BUILT

PROJECT #: 570-97-109

HANGER SYMBOL LEGEND	
#1 U-HOOK	NEW UNDERGROUND PIPING
#2 SIDE BEAM BRACKET (1/2" ATR & UP)	EXISTING UNDERGROUND PIPING
#3 THREADED SIDE BEAM BRACKET	POST INDICATOR VALVE (PIV)
#4 CONCRETE SHOT & FIN	KEY VALVE
#5 COACH SCREW ROD	FIRE DEPT CONNECTION (FDC)
#6 CONCRETE DROP-IN ANCHOR	FIRE HYDRANT
#7 TOP BEAM CLAMP W/ RETAINER STRAP	SWING CHECK VALVE
	CONCRETE THRUST BLOCK

FIRE SPRINKLER SYSTEM SYMBOL LEGEND	
	AUTO SPRINKLER RISER
	"RIGID" GRV CPLG
	"FLEX" GRV CPLG
	SOCKET (PI) FITTING
	SCREWED CAP
	SCREWED PLUG
	PIPE HANGER LOCATION
	HANGER TYP & LENGTH
	WELDED MAIN PIECE NO.
	WELD BRANCHLINE PC. NO.
	BRANCH LINE NO.
	EARTHQUAKE BRACE
	HYDRAULIC REF. POINT
	CENTER-LINE DIMENSION

FIRE SPRINKLER LEGEND						
SYM	MAKE AND MODEL	K-FAC	SIZE	TEMP	TYPE	CANOPY
Total Sprinklers This Job						
Total Sprinklers This Sheet						

AUTHORITY HAVING JURISDICTION		PHONE
DEPT. OF VETERANS AFFAIRS		(202) 228-8432
Date	By	Revisions

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Architect:
Address:
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VA MEDICAL CENTER - FRESNO	
BLDG 1 - PHASE 2	
2615 E. CLINTON AVE. FRESNO, CA 93703	
TITLE: TITLE SHEET	11465 WOODSIDE AVE. FIRST FLOOR SANTEE, CA 92071 (619) 444-0402 FAX (619) 448-6425 LICENSE NO. C16 602260
JOB NO. F-120	SCALE 1/8" = 1'-0"
DRAWN J.J.G.	DATE 4/15/00
SHEET 1 OF 15	