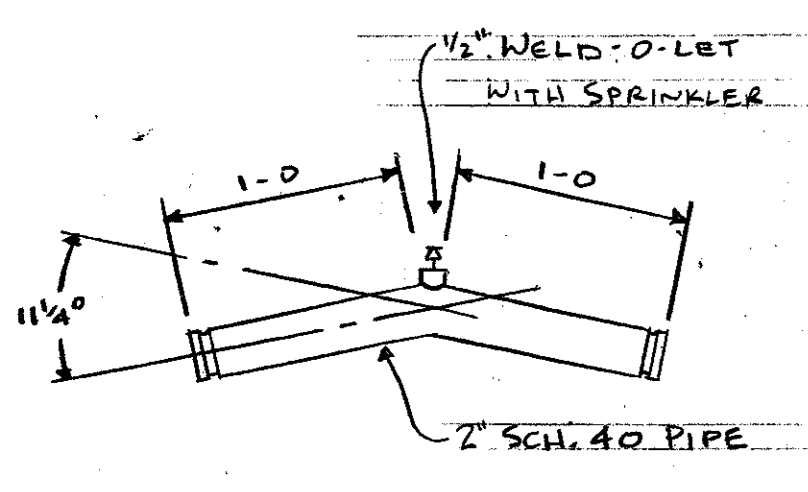
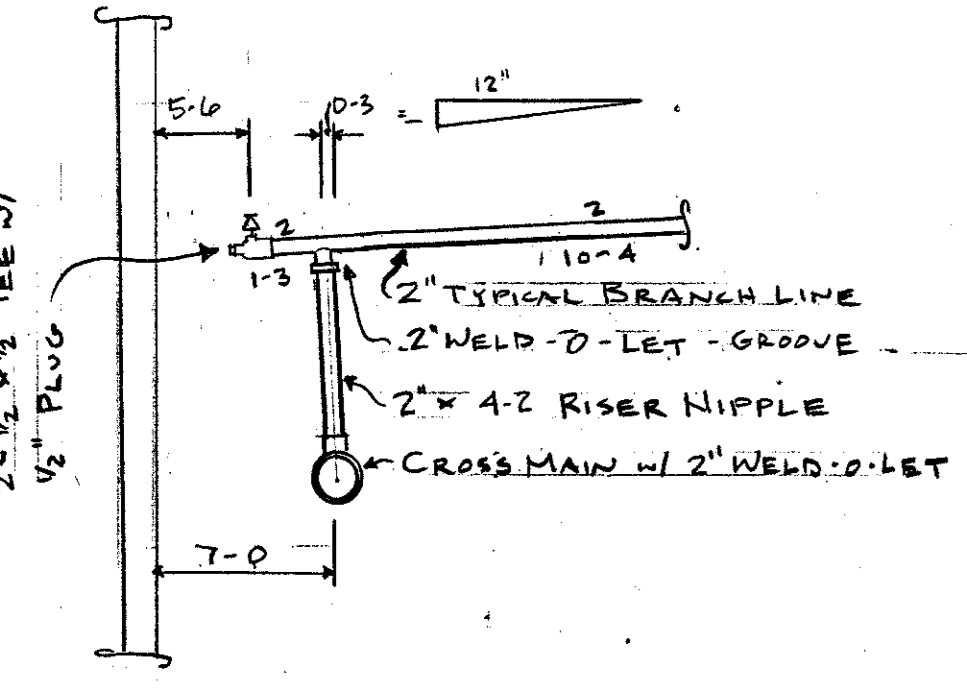


RISER DETAIL
SCALE: 3/8" = 1'-0"

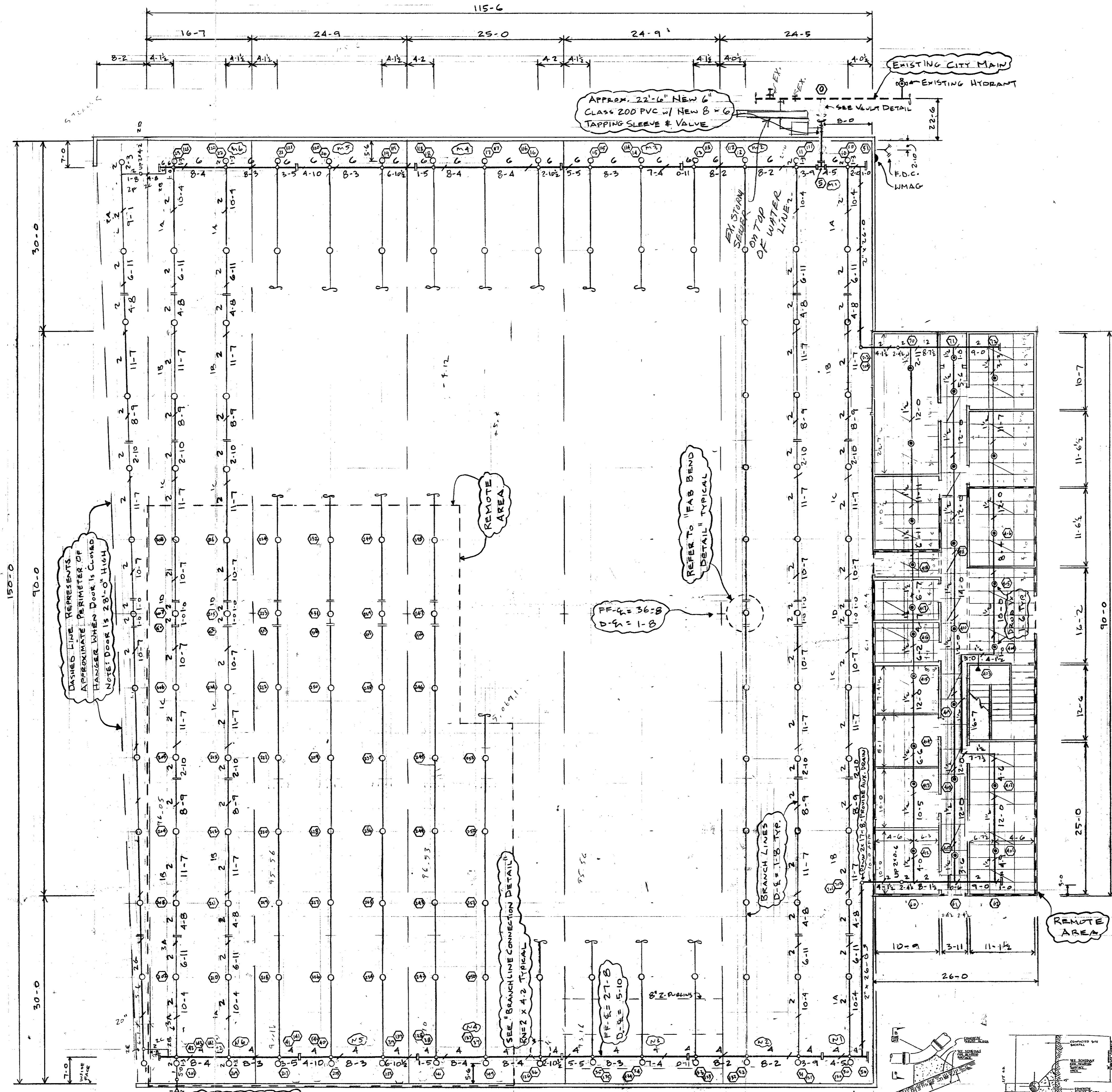
RISER SCHEDULE	
①	1" COUPLING
②	1/2" TOPN BUTTERFLY VALVE W/ TAMPER
③	6" STAR S30 ALARM CHECK VALVE W/ TRIM
④	6" POTTER PADDLE-TYPE FLOW SWITCH
⑤	4" VIC #717 CHECK VALVE
⑥	4" DRAIN 90° W/ 1/4" BUSHING TO 1/2" BALL DEIF, OVER 4" x 1-10 T x 6 GALVANIZED (GVT), T, A
⑦	4" x 2" x 2" ROUGH BRASS F.D.C.



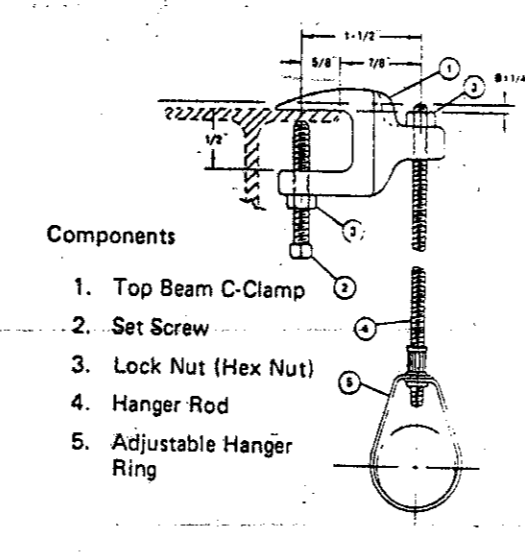
FAB BEND DETAIL
N.T.S.



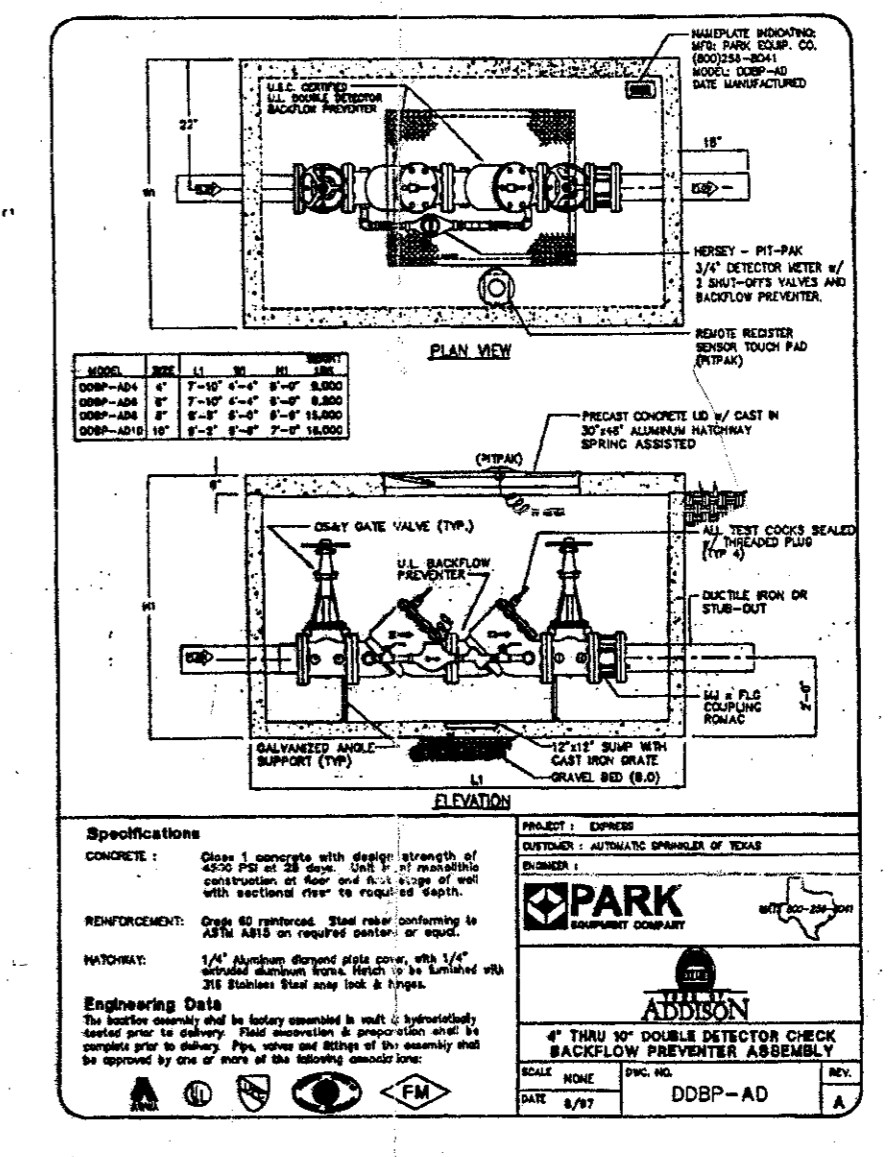
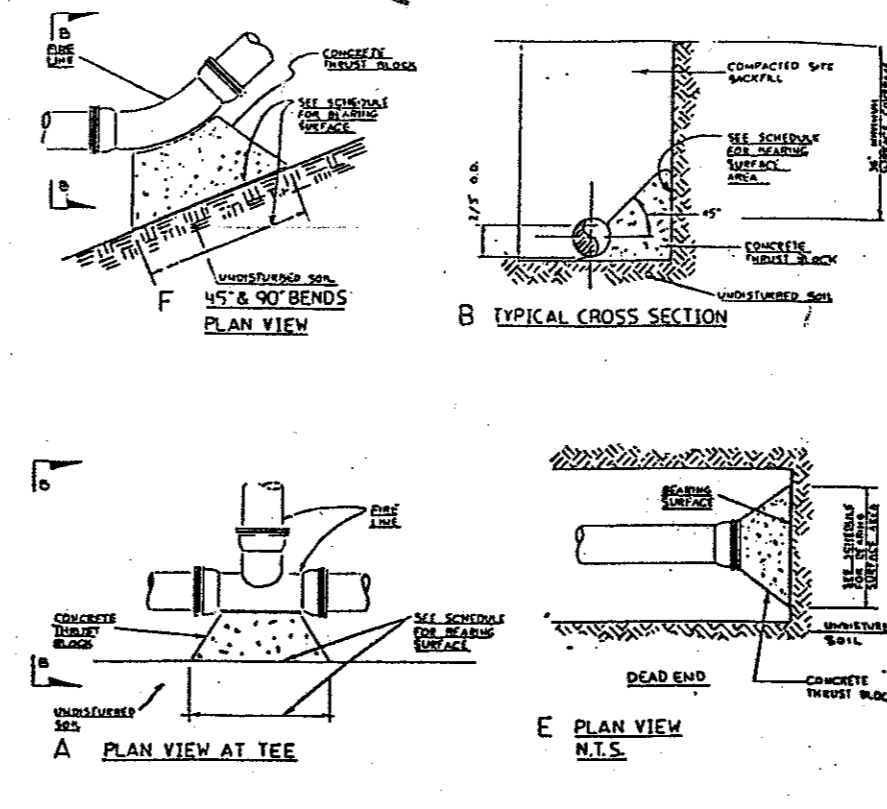
BRANCHLINE CONNECTION DETAIL
N.T.S.



- ① 195 STAR 50 BRASS UPRIGHT
- ② 360° 1/2" DRIFICE x 1/2" N.P.T. K=5.8
- ③ 47 STAR 50 SEMI-RECESSED CHROME PENDENT
- ④ 165° 1/2" DRIFICE x 1/2" N.P.T. K=5.8
- ⑤ 1 STAR 50 CHROME SIDEWALL
- ⑥ 165° 1/2" DRIFICE x 1/2" N.P.T. K=5.8



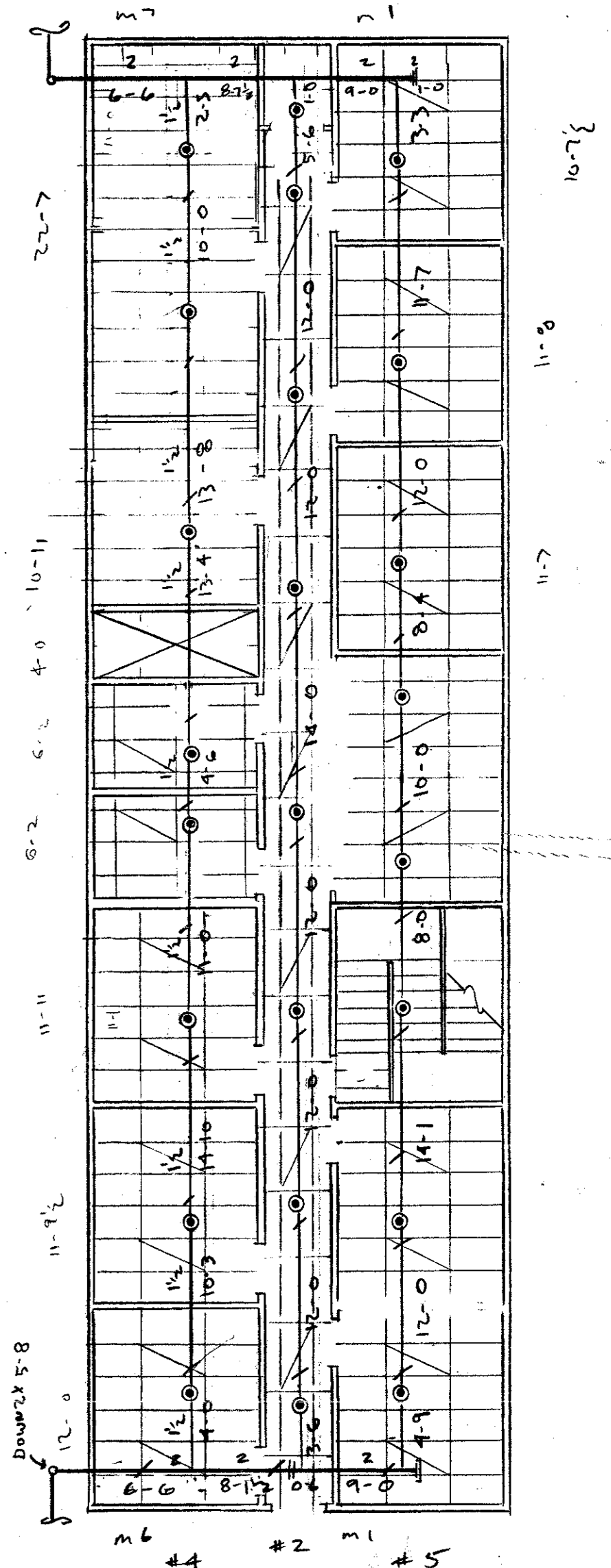
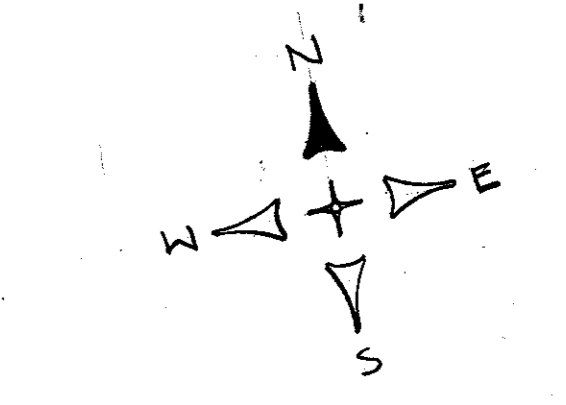
HANGER DETAIL
N.T.S.



VAULT DETAIL

- SYSTEM DESIGN CRITERIA**
- SYSTEM DESIGN IS BASED ON THE REQUIREMENTS OF NFPA 409 FOR GROUP II AIRCRAFT HANGER HOUSING UNFUELED AIRCRAFT, & THE TOWN OF ADDISON
 - MAXIMUM DISTANCE BETWEEN HEADS IS 12'-0" (130 S.F. MAX) PER NFPA 409-4-2.3
 - SYSTEM HAS BEEN HYDRAULICALLY CALCULATED TO PROVIDE A DENSITY OF .17 GPM OVER REMOTE 5,000 S.F. AREA PER NFPA 409-4.2.5 & NFPA #13
 - MINIMUM CUSHION OF 10 PSI IS REQUESTED BY THE TOWN OF ADDISON, ACTUAL CUSHION = 12.74 PSI (33.7%)
 - SYSTEM DEMAND @ CONNECTION TO CITY MAINS = 1,020 GPM @ 38.8 PSI
 - SYSTEM DEMAND @ BASE OF RISER = 920.47 GPM @ 35.75 PSI
 - OFFICE AREA HAS BEEN HYDRAULICALLY CALCULATED TO PROVIDE A DENSITY OF .10 GPM OVER REMOTE 1,500 S.F. PER NFPA #13 FOR LIGHT HAZARD
 - WATERFLOW INFORMATION OBTAINED FROM THE CITY OF ADDISON BASED ON A 7.30-101 FLOW TEST:
- STATIC: 55 PSI
RESIDUAL: 46 PSI
PISTON: 28" W/ ONE 2" FLOWING
FLOW: 2,280 GPM

- GENERAL NOTES**
- ALL MATERIALS AND INSTALLATION TO CONFORM TO THE REQUIREMENTS OF NFPA #13 & NFPA #409
 - ALL GROUNDED PIPE TO BE DRIN-FLOW
 - ALL THREADED PIPE TO BE DYNM-THREAD
 - ALL GROUNDED FITTINGS AND COUPLINGS TO BE VICTAULIC OR EQUAL
 - ALL HANGERS & COMPONENTS TO COMPLY WITH NFPA #13
 - ALL PIPE AND HANGERS TO BE BLACK UNLESS NOTED GALVANIZED



SECOND FLOOR OFFICE PLAN
SCALE: 1/8" = 1'-0"

- 1. UNDERGROUND MAINS**
- a. All piping from approximately 5 feet outside of building to be Polyvinyl Chloride (PVC) Class 200 as manufactured by J-M Manufacturing Company "Blue-Brute", or Galvalanized "Vinyl Iron".
 - b. All piping 5 feet to inside of building to be Ductile Iron Class 51.
 - c. DR 14 PVC rating compatible with same inside diameter as ductile iron mechanical joint pipe and fittings.
 - d. Gaskets to meet ASTM F477 Standard for joining plastic pipe.
 - e. All fittings to be Ductile Iron and same nominal size and pressure rating as pipe.
 - f. Caps and plugs may be interchangeable.
 - g. All changes of directions in underground pipe to be anchored by concrete thrust blocks or rods as defined by NFPA #24.
 - h. Thrust Blocks to be a minimum of 3000 psi concrete.
 - i. Underground mains to be thoroughly flushed in accordance with NFPA #13 & #24.
 - j. Minimum 3'-0" cover to finish grade for all underground piping.
 - k. Backfill for all buried pipes shall be natural on-site materials.
 - l. ALL MATERIALS & INSTALLATION TO CONFORM TO THE REQUIREMENTS OF THE TOWN OF ADDISON.
 - m. PIPE SHALL BE EMBEDDED IN SAND 6" BENEATH PIPE, 6" ON EITHER SIDE, AND 12" ABOVE PIPE.
 - n. TRACER #12 AUSTIC COATED COPPER WIRE SHALL BE PLACED IN TRENCH OVER FIRE MAIN.

W. McCullar
FIRE SPRINKLER SYSTEM
RESPONSIBLE HANGING EMPLOYEE
WOODY McCULLAR
LICENSE NO. 896-0468
REGISTRATION NO. SCR-0383

NO.	DATE	ISSUES & REVISIONS	BY

AUTOMATIC SPRINKLER OF TEXAS, INC.
P.O. BOX 382091
DUNCANVILLE, TEXAS 75138
(972) 298-2772
STATE LICENSE NO. SCR-0383

SURVEYED BY RLO 7-27-01
DRAWN BY RLO 8-05-01
SPRINKLERS THIS SHEET 245
SPRINKLERS TOTAL 245
SCALE: 1/8" = 1'-0"
CONTRACT NO. 6400

ADDISON EXPRESS HANGER ADDITION
4500 CLAIRE CHEMVAULT
ADDISON, TEXAS

SHEET NUMBER
FP-1
OF 1 SHEETS