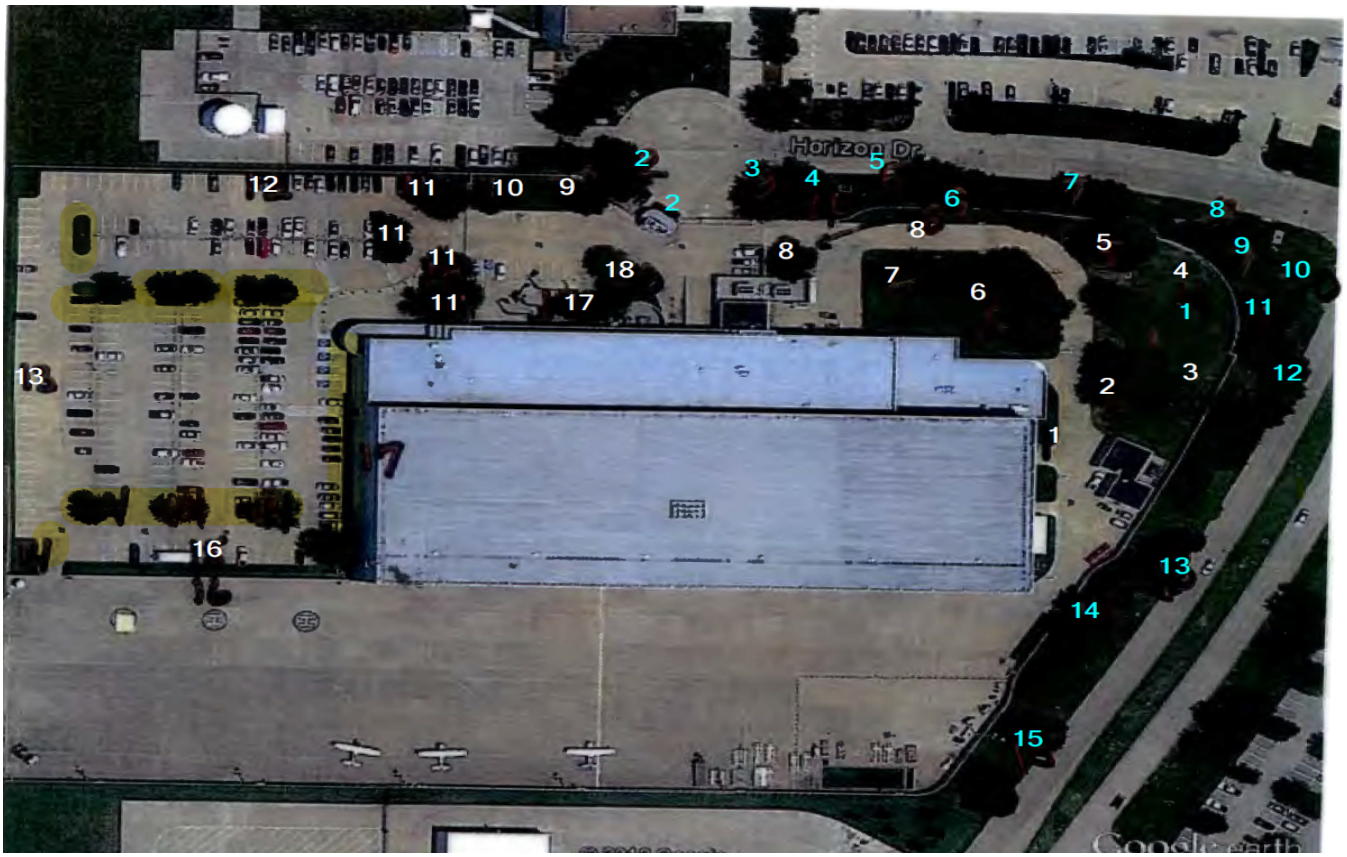
ATTACHMENT I

SPRINKLER CLOCK SCHEDULE

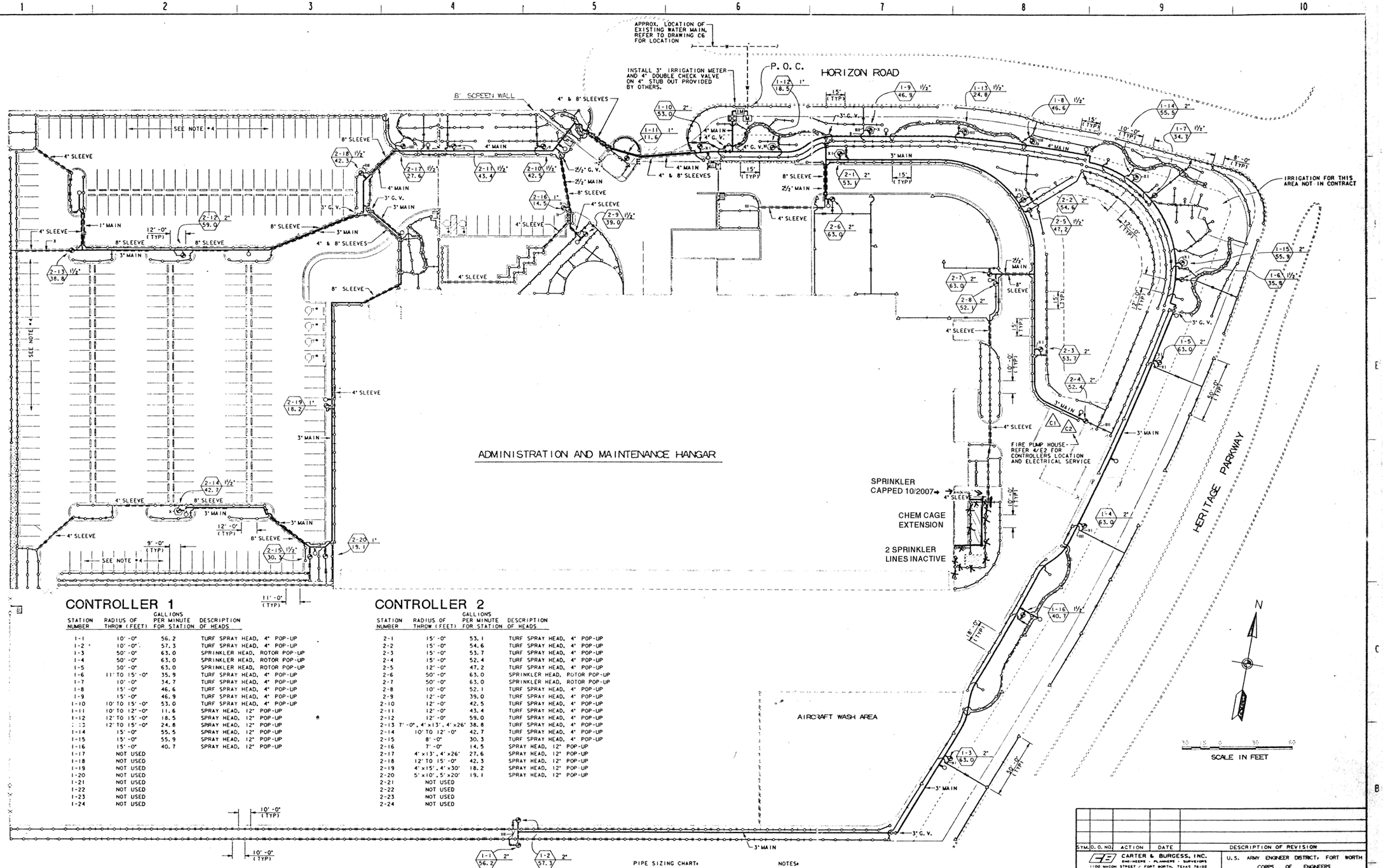
DEA / AVIATION SPRINKLER CONTROLLER SCHEDULE	
CONTROLLER 2: INSIDE FACILITY	**CONTROLLER 1: OUTSIDE FACILITY**
DAYS: TUE. FRI, AND SUN.	DAYS: TUE. FRI, AND SUN.
TIME: 25 min. per Each Zone	TIME: 25 min. per Each Zone
START 8:00PM	START 8:00PM
#1	#1
#2	#2
#3	#3
#4	#4
#5	#5
#6	#6
#7	#7
#8	#8
#9	#9
#10	#10
#11	#11
#12	#12
#13	#13
#16	#14
#17	#15
#18	

*Yellow Highlighted Zones were Capped off



ATTACHMENT II

IRRIGATION PLAN and INFORMATION



CONTROLLER 1

STATION NUMBER	RADIUS OF THROW (FEET)	GALLONS PER MINUTE FOR STATION	DESCRIPTION OF HEADS
1-1	10'-0"	56.2	TURF SPRAY HEAD, 4" POP-UP
1-2	10'-0"	57.3	TURF SPRAY HEAD, 4" POP-UP
1-3	50'-0"	63.0	SPRINKLER HEAD, ROTOR POP-UP
1-4	50'-0"	63.0	SPRINKLER HEAD, ROTOR POP-UP
1-5	50'-0"	63.0	SPRINKLER HEAD, ROTOR POP-UP
1-6	11' TO 15'-0"	35.9	TURF SPRAY HEAD, 4" POP-UP
1-7	10'-0"	34.7	TURF SPRAY HEAD, 4" POP-UP
1-8	15'-0"	46.6	TURF SPRAY HEAD, 4" POP-UP
1-9	15'-0"	46.9	TURF SPRAY HEAD, 4" POP-UP
1-10	10' TO 15'-0"	53.0	TURF SPRAY HEAD, 4" POP-UP
1-11	10' TO 12'-0"	11.6	SPRAY HEAD, 12" POP-UP
1-12	12' TO 15'-0"	18.5	SPRAY HEAD, 12" POP-UP
1-13	12' TO 15'-0"	24.8	SPRAY HEAD, 12" POP-UP
1-14	15'-0"	55.5	SPRAY HEAD, 12" POP-UP
1-15	15'-0"	55.9	SPRAY HEAD, 12" POP-UP
1-16	15'-0"	40.7	SPRAY HEAD, 12" POP-UP
1-17	NOT USED		
1-18	NOT USED		
1-19	NOT USED		
1-20	NOT USED		
1-21	NOT USED		
1-22	NOT USED		
1-23	NOT USED		
1-24	NOT USED		

CONTROLLER 2

STATION NUMBER	RADIUS OF THROW (FEET)	GALLONS PER MINUTE FOR STATION	DESCRIPTION OF HEADS
2-1	15'-0"	53.1	TURF SPRAY HEAD, 4" POP-UP
2-2	15'-0"	54.6	TURF SPRAY HEAD, 4" POP-UP
2-3	15'-0"	53.7	TURF SPRAY HEAD, 4" POP-UP
2-4	15'-0"	52.4	TURF SPRAY HEAD, 4" POP-UP
2-5	12'-0"	47.2	TURF SPRAY HEAD, 4" POP-UP
2-6	50'-0"	63.0	SPRINKLER HEAD, ROTOR POP-UP
2-7	50'-0"	63.0	SPRINKLER HEAD, ROTOR POP-UP
2-8	10'-0"	52.1	TURF SPRAY HEAD, 4" POP-UP
2-9	12'-0"	39.0	TURF SPRAY HEAD, 4" POP-UP
2-10	12'-0"	42.5	TURF SPRAY HEAD, 4" POP-UP
2-11	12'-0"	43.4	TURF SPRAY HEAD, 4" POP-UP
2-12	12'-0"	59.0	TURF SPRAY HEAD, 4" POP-UP
2-13	7'-0", 4'x13', 4'x26'	38.8	TURF SPRAY HEAD, 4" POP-UP
2-14	10' TO 12'-0"	42.7	TURF SPRAY HEAD, 4" POP-UP
2-15	8'-0"	30.3	TURF SPRAY HEAD, 4" POP-UP
2-16	7'-0"	14.5	SPRAY HEAD, 12" POP-UP
2-17	4'x13', 4'x26'	27.6	SPRAY HEAD, 12" POP-UP
2-18	12' TO 15'-0"	42.3	SPRAY HEAD, 12" POP-UP
2-19	4'x15', 4'x30'	18.2	SPRAY HEAD, 12" POP-UP
2-20	5'x10', 5'x20'	19.1	SPRAY HEAD, 12" POP-UP
2-21	NOT USED		
2-22	NOT USED		
2-23	NOT USED		
2-24	NOT USED		

IRRIGATION LEGEND

(2 / L2 L2)

- P.O.C. POINT OF CONNECTION
- GATE VALVE
- IM IRRIGATION METER
- DC BACKFLOW PREVENTOR
- C CONTROLLER
- 4" SUPPLY MAINS W/SIZE - CLASS 200 P.V.C.
- ¾" LATERAL LINES W/SIZE - CLASS 200 P.V.C.
- CONDUIT - SCHEDULE 40 P.V.C.
- QUICK COUPLER VALVE
- REMOTE CONTROL VALVE
- LARGE POP-UP SPRINKLER HEAD
- SMALL POP-UP SPRAY HEAD
- 0 / 00.0 — 0" STATION NUMBER, VALVE SIZE, G.P.M. — REMOTE CONTROL VALVE DATA

PIPE SIZING CHART:

- ½"
- ¾"
- 1"
- 1¼"
- 1½"
- 2"
- 2½"

NOTES:

1. REFER TO DRAWING L4 FOR IRRIGATION DETAILS.
2. REFER TO DRAWING L4 FOR IRRIGATION GENERAL NOTES.
3. REFER TO DRAWING C6 FOR LOCATIONS OF EXISTING AND PROPOSED UTILITIES.
4. INSTALL HEADS IN LINE WITH PARKING STRIPES.

(1 / L2 L2) **IRRIGATION PLAN**

SCALE: 1" = 30'-0"

SYM.	D. O. NO.	ACTION	DATE	DESCRIPTION OF REVISION

CARTER & BURGESS, INC.
ENGINEERS - PLANNERS - SURVEYORS
1100 MACON STREET / FORT WORTH, TEXAS 76102
(817)336-2611 FAX NO. (817)877-0536
FORT WORTH - HOUSTON - DALLAS, TEXAS
FORT MYERS, FLORIDA

U.S. ARMY ENGINEER DISTRICT, FORT WORTH
CORPS OF ENGINEERS
FORT WORTH, TEXAS

DESIGNED BY: JLH
DRAWN BY: JLH
CHECKED BY: TBB
SUBMITTED BY: DJY
ENGINEER:

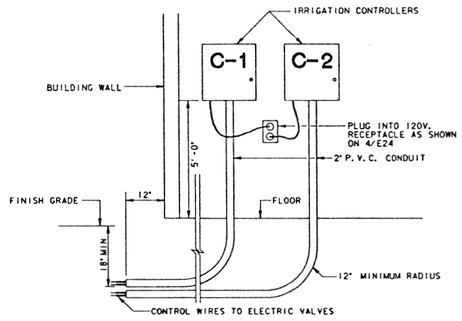
FORT WORTH, TEXAS
AIRCRAFT MAINTENANCE HANGAR
ALLIANCE AIRPORT

IRRIGATION PLAN

SOL. NO. DACW63-98-0018 DATED: MAR 1998
CONTR. NO. DACW63-98-C-0079 SEQUENCE NO. 24
DRAWING NUMBER L2 SHEET NO. 5 OF

CONTR. NO. DACW63-98-C-0079

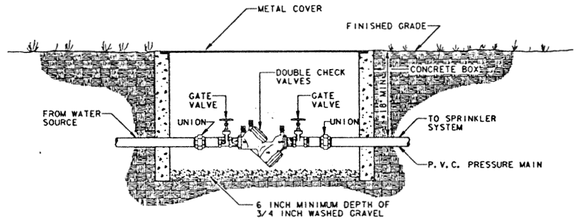
8901571R.DGN



1/L4/L4 TYPICAL CONTROLLER WALL MOUNTING DETAIL

NOT TO SCALE

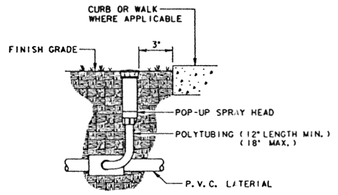
- REFER TO DRAWING E24 FOR LOCATION IN FIRE PUMP HOUSE.



2/L4/L4 TYPICAL DOUBLE CHECK VALVE ASSEMBLY

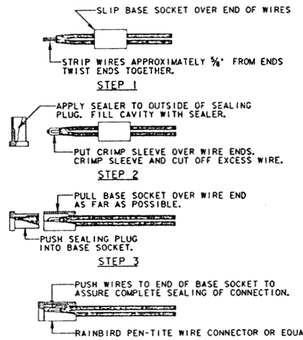
NOT TO SCALE

- COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
- ORIENT RECTANGULAR VALVE BOXES SO THAT THE EDGES ARE PARALLEL TO ADJACENT WALKS, CURBS, ETC.



3/L4/L4 TYPICAL SMALL POP-UP HEAD

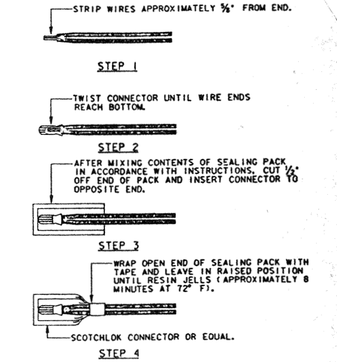
NOT TO SCALE



4/L4/L4 TYPICAL CONTROL WIRE CONNECTION DETAIL

NOT TO SCALE

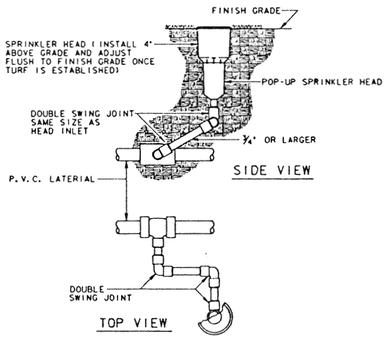
- NOTE: FOR WIRE SIZES NO. 14, NO. 12, AND NO. 10



5/L4/L4 TYPICAL CONTROL WIRE CONNECTION DETAIL

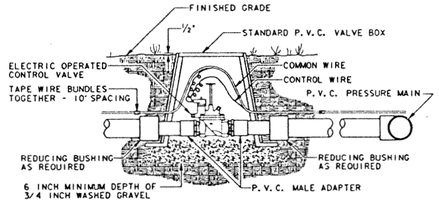
NOT TO SCALE

- NOTE: FOR WIRE SIZES LARGER THAN NO. 10.



6/L4/L4 TYPICAL LARGE POP-UP HEAD

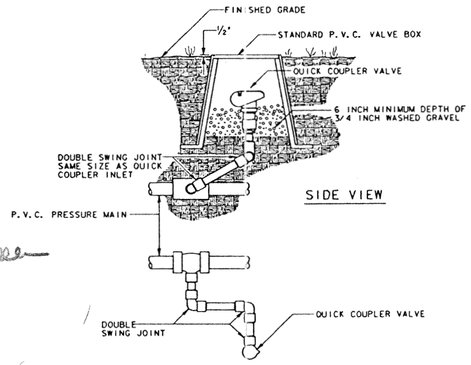
NOT TO SCALE



7/L4/L4 TYPICAL SOLENOID VALVE DETAIL

NOT TO SCALE

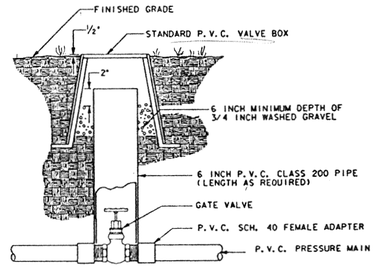
- ALL WIRE TO BE INSTALLED AS PER LOCAL CODES.
- PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX. (WRAP AROUND 1/2" PIPE 15 TIMES)
- COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
- ORIENT RECTANGULAR VALVE BOXES SO THAT THE EDGES ARE PARALLEL TO ADJACENT WALKS, CURBS, ETC.



8/L4/L4 TYPICAL QUICK COUPLER VALVE DETAIL

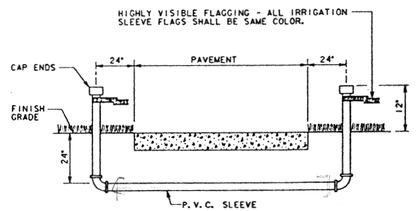
NOT TO SCALE

- COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
- ORIENT RECTANGULAR VALVE BOXES SO THAT THE EDGES ARE PARALLEL TO ADJACENT WALKS, CURBS, ETC.



9/L4/L4 TYPICAL GATE VALVE DETAIL

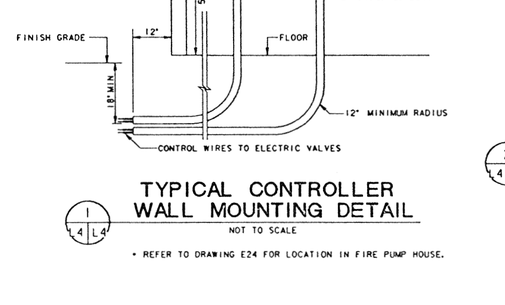
NOT TO SCALE



10/L4/L4 TYPICAL SLEEVE DETAIL

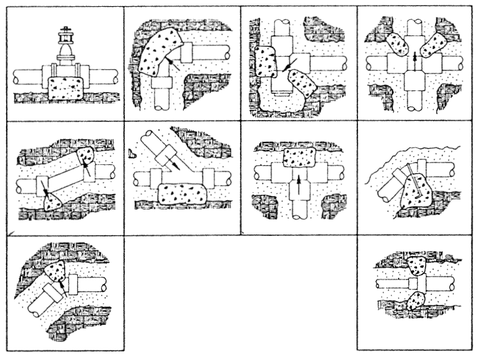
NOT TO SCALE

- DETAIL SHOWN IS FOR INSTALLATION OF SLEEVES PRIOR TO CONSTRUCTION OF IRRIGATION SYSTEM OR PAVEMENT.



11/L4/L4 TYPICAL TRENCHING DETAIL

NOT TO SCALE



12/L4/L4 TYPICAL IRRIGATION THRUST BLOCK DETAIL

NOT TO SCALE

- TO BE USED WITH 2" PIPE & LARGER WITH COMPRESSION TYPE JOINTS.
- ALL MAIN LINE TO BE INSTALLED & TESTED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
- ALL TRENCH DEPTH & WIDTH SHALL BE AS SHOWN IN DETAIL 10/L4.
- THRUST BLOCKING SHALL BE AGAINST UNDESTURBED EARTH.
- CONCRETE - 3000 P.S.I. @ 28 DAYS.

BEARING OF BLOCK IN SQ. FT.					
FITTING SIZES	TEE & END	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
2"	0.5	0.7	0.4	0.2	0.1
3"	1.2	1.6	0.9	0.5	0.3
4"	2.0	2.9	1.6	0.8	0.4
6"	4.5	6.4	3.5	1.8	0.9

(ALLOWABLE SOIL BEARING PRESSURE BASED ON 1,000 LBS/S.F.)
(MAXIMUM PIPE WATER PRESSURE SHOULD BE LIMITED TO 150 P.S.I.G.)

13/L4/L4 IRRIGATION GENERAL NOTES

1. PLANS ARE DIAGRAMMATIC AND APPROXIMATE. ALL VALVES AND OTHER IRRIGATION EQUIPMENT SHALL BE LOCATED IN PLANTING AREAS. ALL PIPING SHALL BE LOCATED ALONG EDGES OF PLANTING AREAS EXCEPT WHERE NOT FEASIBLE TO DO SO.
2. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK AND LAYOUT WITH THE LANDSCAPE PLANTING CONTRACTOR AND OTHER CONTRACTORS ON SITE.
3. THE IRRIGATION CONTRACTOR SHALL CHECK AND VERIFY THAT THE WORK OF OTHER TRADES ARE SATISFACTORILY COMPLETE AND THAT FINISH GRADING HAS BEEN COMPLETED PRIOR TO BEGINNING WORK.
4. PROTECTION OF UTILITIES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES AND CONDUCT HIS WORK SO AS TO PREVENT INTERRUPTION OF SERVICE OR DAMAGE TO THEM. THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES AND UTILITIES AND SHALL BE RESPONSIBLE FOR THEIR REPAIR IF DAMAGED.
5. PRIOR TO BEGINNING INSTALLATION OF THE IRRIGATION SYSTEM, VERIFY MINIMUM STATIC PRESSURE OF 50 P.S.I. ON THE SITE. IF PRESSURE IS LESS THAN 50 P.S.I. NOTIFY OWNER'S REPRESENTATIVE AND DO NOT PROCEED UNTIL INSTRUCTED TO DO SO BY THE OWNER.
6. ALL SPRINKLERS SHALL BE ADJUSTED FOR MINIMUM COVERAGE ON WALKWAYS, BUILDINGS, AND PAVED AREAS.
7. QUICK COUPLER VALVES SHALL BE CONNECTED TO CONTINUOUS PRESSURE LINES, AND SHALL BE INSTALLED IN VALVE BOXES PER DETAIL 8/L4.
8. ALL CONTROL WIRES SHALL BE IN P.V.C. CONDUIT IF UNDER PAVEMENT.
9. INSTALL PLUGS ON CONTROLLER POWER CORDS.

STATE OF TEXAS — JOHN LEE NISSIM — 1501 — REGISTERED LANDSCAPE ARCHITECT — 9-92

SYM.	O. O. NO.	ACTION	DATE	DESCRIPTION OF REVISION

CARTER & BURGESS, INC. ENGINEERS - PLANNERS - SURVEYORS 1100 MACON STREET / FORT WORTH, TEXAS 76102 817/335-6511 AUSTIN - FORT WORTH - HOUSTON - DALLAS, TEXAS FORT MYERS, FLORIDA

U.S. ARMY ENGINEER DISTRICT, FORT WORTH CORPS OF ENGINEERS FORT WORTH, TEXAS

DESIGNED BY: JLH
DRAWN BY: JLH
CHECKED BY: TBB

FORT WORTH, TEXAS
AIRCRAFT MAINTENANCE HANGAR
ALLIANCE AIRPORT
IRRIGATION DETAILS

SUBMITTED BY: DJY
ENGINEER:

SOL. NO. DACW63-92-B-0063 DATED: MAR 1992
CONTR. NO. DACW63-92-C-0079 SEQUENCE NO.
DRAWING NUMBER L4 SHEET NO. 26 OF 5

8901571R.DT2

CONTR. NO. DACW63-92-C-0079