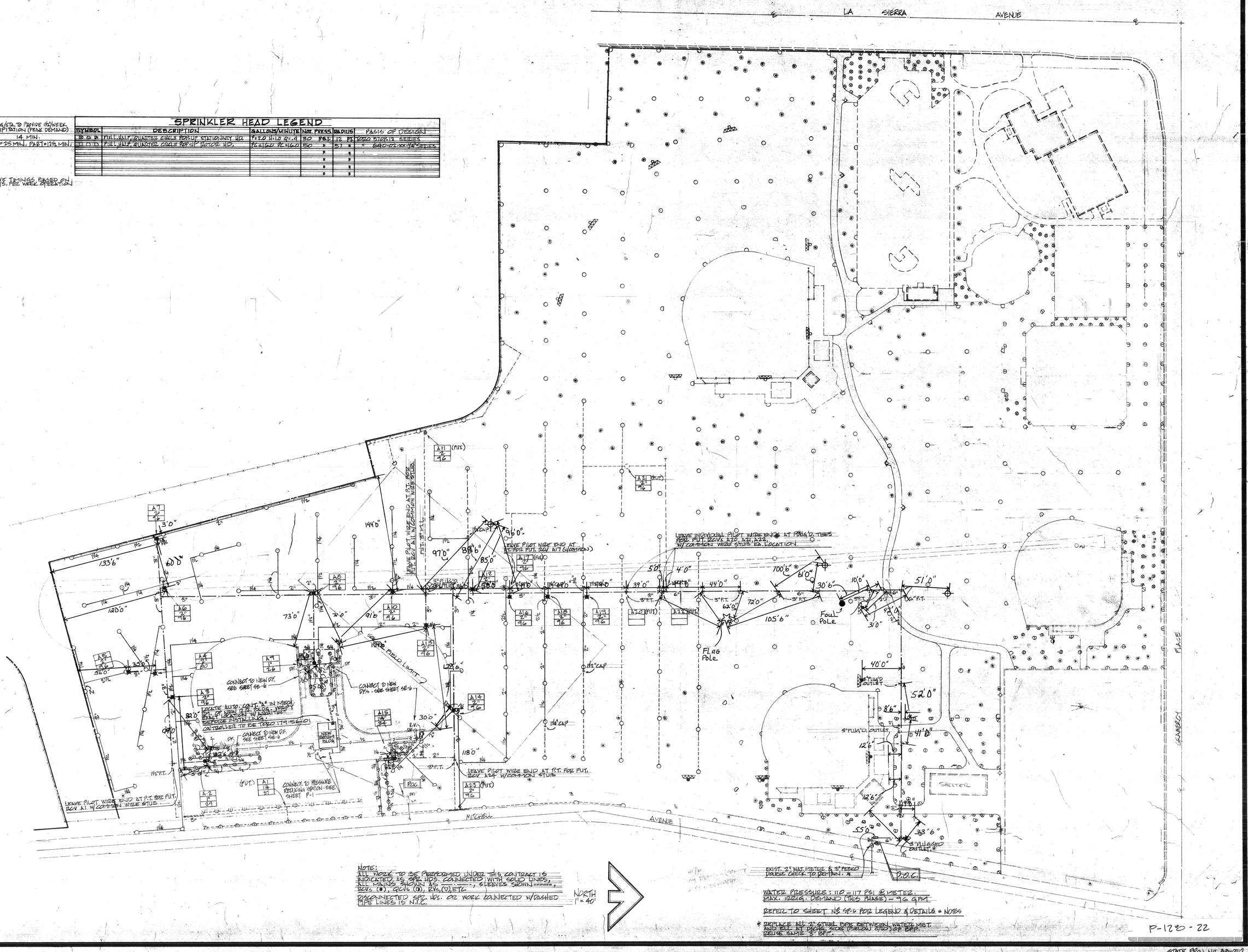
TIMING/STA. TO PROVIDE 1½"/WEEK PRECIPITATION (PEAK DEMAND)	SPRINKLER HEAD LEGEND					
	SYMBOL	DESCRIPTION	GALLONS/MINUTE	NOZ. PRESS.	RADIUS	BASIS OF DESIGN
14 MIN.	⊗ ⊗ ⊗	FULL, HALF, QUARTER CIRCLE POP-UP STATIONARY HD.	P=2.0 H=1.0 Q=.4	30 PSI.	12 FT.	TORO 570P-12 SERIES
FULL = 25 MIN. PART = 12½ MIN.	○ ○ ○	FULL, HALF, QUARTER CIRCLE POP-UP ROTOR HD.	PC=16.0 PC=16.0	50 "	57 "	" 640-02-XX-¼" SERIES
				"	"	
				"	"	
				"	"	
				"	"	

ABOVE TIMINGS BASED ON 6 DYS. PER WEEK OPERATION



NOTE:
ALL WORK TO BE PERFORMED UNDER THIS CONTRACT IS INDICATED AS SPR. HDS. CONNECTED WITH SOLID LINES, ALL MAINS SHOWN AS ——, SLEEVES SHOWN ====, RCVS (●), QCVS (◐), RVS, (▽), ETC.
DISCONNECTED SPR. HDS. OR WORK CONNECTED W/DASHED PIPE LINES IS N.I.C.

NORTH 1" = 40'

WATER PRESSURE: 110 – 117 PSI @ METER.
MAX. IRRIG. DEMAND (THIS PHASE) – 96 GPM

REFER TO SHEET No SP-6 FOR LEGEND & DETAILS & NOTES

* REPLACE ALL 2" STEEL PIPE BETWEEN WATER MET. AND ELL AT DSCHG. SIDE (BELOW GRD) OF BFP. REUSE SAME 3" BFP.

P-128-22

STATE PROJ. NO. 33-0012

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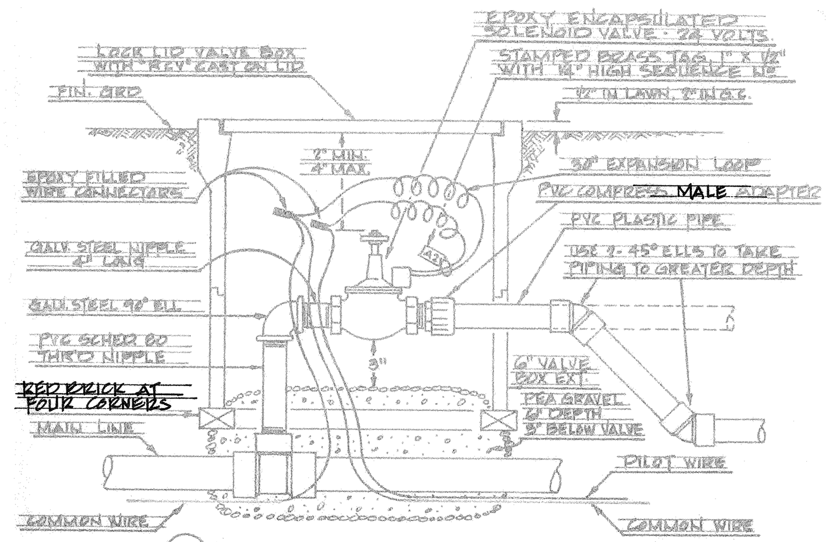
PARK IMPROVEMENT PROGRAM CITY OF RIVERSIDE

LA SIERRA PARK - SPRINKLER PLAN, LEGEND

date 11-17-78

revised

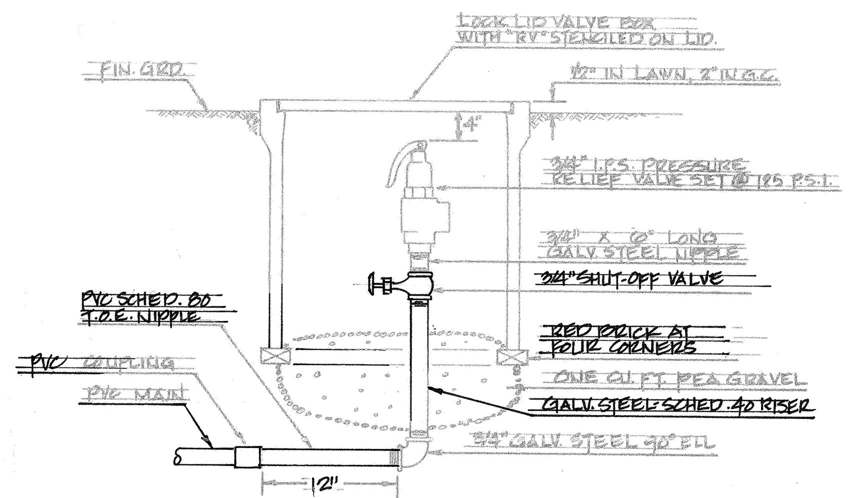
sheet no. SP-2



1 REMOTE CONTROL VALVE - NON PLAYING AREAS
NO SCALE SYMBOL ●

REMOTE CONTROL VALVE SHALL BE OF BRONZE CONSTRUCTION, GLOBE TYPE WITH THROTTLING DEVICE. ANGLE TYPE MAY BE USED.

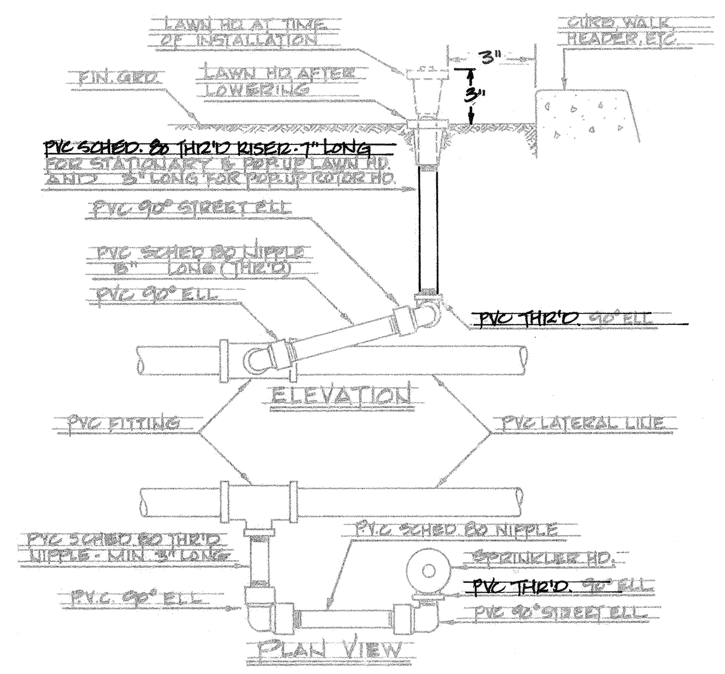
SPECIFIED: REMOTE CONTROL VALVE - TORO No 216-06- (04, 06 & 08)
VALVE BOX - BROOKS No 3TL
COMPRESSION MALE ADAPTER - FLO-CONTROL No 130 SERIES



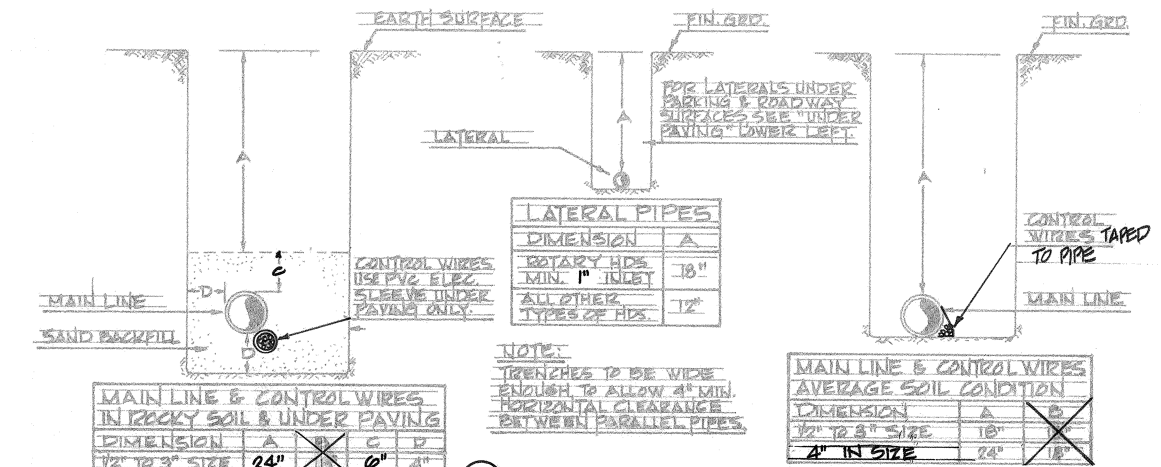
5 PRESSURE RELIEF VALVE
NO SCALE: SYMBOL ◁

PRESSURE RELIEF VALVE SHALL BE BRONZE BODY & INSIDE WORKING PARTS, ANGLE TYPE WITH PURGE LEVER, SILICONE SEATS & S.S. SPRING 3/4" FEMALE CONNECTION.

SPECIFIED: PRESSURE RELIEF VALVE - CASH ACME No F-72 - 3/4"
VALVE BOX - BROOKS No 3TL
SHUT-OFF VALVE - NIBCO-SCOTT No T-29 - 3/4"



9 RISER ASSEMBLY - LAWN HEAD
NO SCALE



MAIN LINE & CONTROL WIRES IN ROCKY SOIL & UNDER PAVING				
DIMENSION	A	B	C	D
1/2" TO 3" SIZE	24"		6"	4"

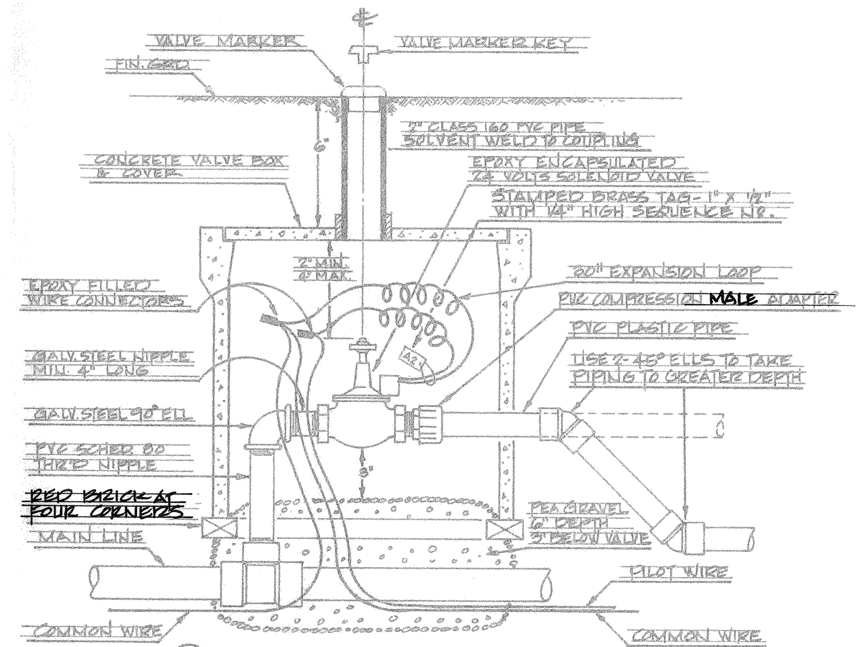
LATERAL PIPES	
DIMENSION	A
ROTARY HDS. MIN. 1" INLET	18"
ALL OTHER TYPES OF HDS.	12"

MAIN LINE & CONTROL WIRES AVERAGE SOIL CONDITION		
DIMENSION	A	B
1/2" TO 3" SIZE	18"	
4" IN SIZE	24"	18"

13 TRENCHING DETAILS
NO SCALE

LEGEND

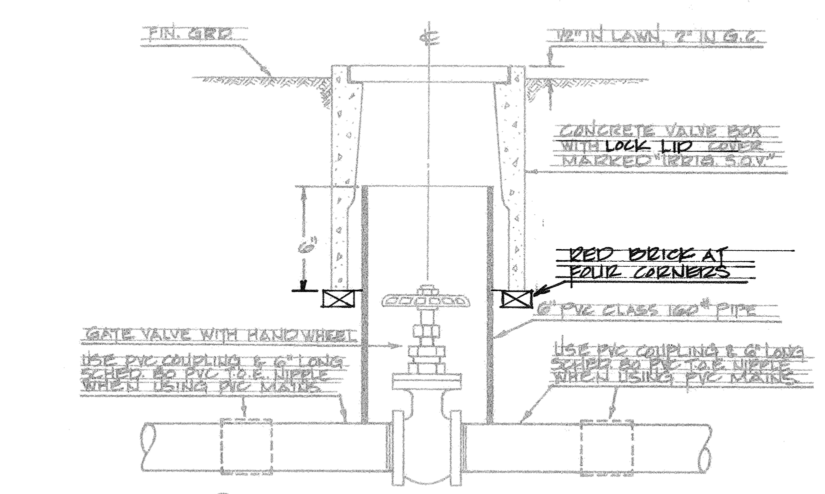
SYMBOL	DESCRIPTION	REFERENCE No
●	REMOTE CONTROL VALVE (NON-PLAYING AREAS)	DETAIL No 1
✕	REMOTE CONTROL VALVE - (PLAY AREAS)	" " 2
▬	AUTOMATIC CONTROLLER	" " 3
◐	QUICK COUPLER VALVE	" " 4
▭	NEW OR EXIST. BACKFLOW PREVENTION DEVICE	
◁	PRESSURE RELIEF VALVE	" " 5
⊠	LINE-SIZED SHUT-OFF VALVE (2" & UNDER)	" " 6
⊠	LINE SIZED SHUT-OFF VALVE (2 1/2" & OVER)	" " 7
—D—	DOMESTIC MAIN LINE - PVC SCHED. 40, TYPE I SWP	
- - -	MAIN LINE - EXIST. OR PROVIDED UNDER MECH. SECTION	
— · —	NEW MAIN LINE - SEE NOTES	
———	SPRINKLER PIPE - PVC, 1120, SOLVENT WELDED PLASTIC PIPE - SCHED. 40	
======	PVC ELEC. SLEEVE WITH No 12 PULL WIRE UNDER PAVING	
9	REMOTE CONTROL VALVE SEQUENCE NUMBER	
2"	REMOTE CONTROL VALVE SIZE	
80	FLOW IN GALLONS PER MINUTE	
P.O.C.	POINT OF CONNECTION	
▭	DOUBLE CHECK VALVE ASSEMBLY FOR DOMESTIC WATER SUPPLY	



2 REMOTE CONTROL VALVE - PLAY AREAS ONLY
NO SCALE SYMBOL ✕

REMOTE CONTROL VALVE SHALL BE OF BRONZE CONSTRUCTION, GLOBE TYPE, WITH THROTTLING DEVICE

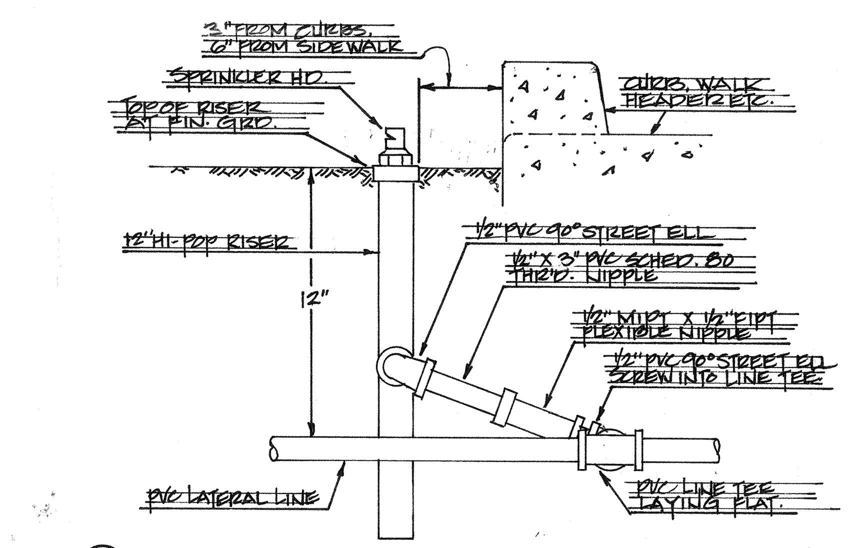
SPECIFIED: REMOTE CONTROL VALVE - TORO No 216-06- (04, 06 & 08)
VALVE BOX - BROOKS No 3 SP
COMPRESSION MALE ADAPTER - FLO-CONTROL No 130 SERIES
VALVE MARKER - RAINBIRD No 63100



6 SHUT-OFF VALVE - 1/2" THRU 2"
NO SCALE SYMBOL ⊠

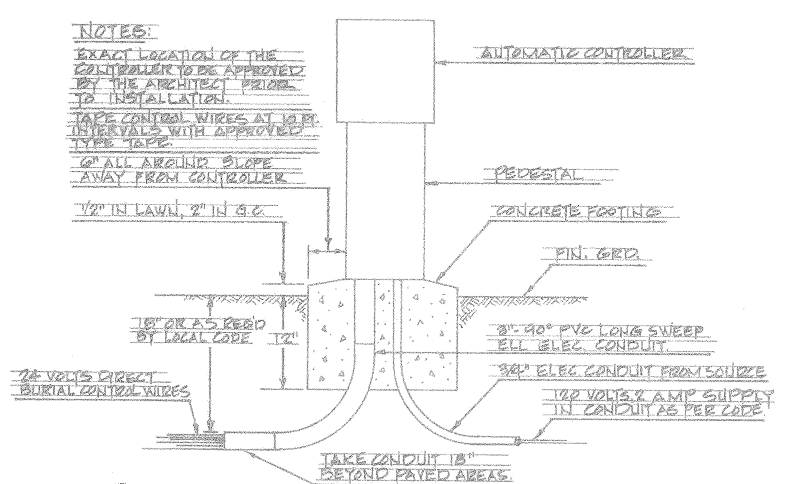
GATE VALVE SHALL BE 200 P.S.I. W.O.G. BRONZE CONSTRUCTION, NON-RISING STEM, SOLID WEDGE, TEFLON ASBESTOS PACKING.

SPECIFIED: GATE VALVE - NIBCO-SCOTT No T-113 SERIES
VALVE BOX - BROOKS No 3TL



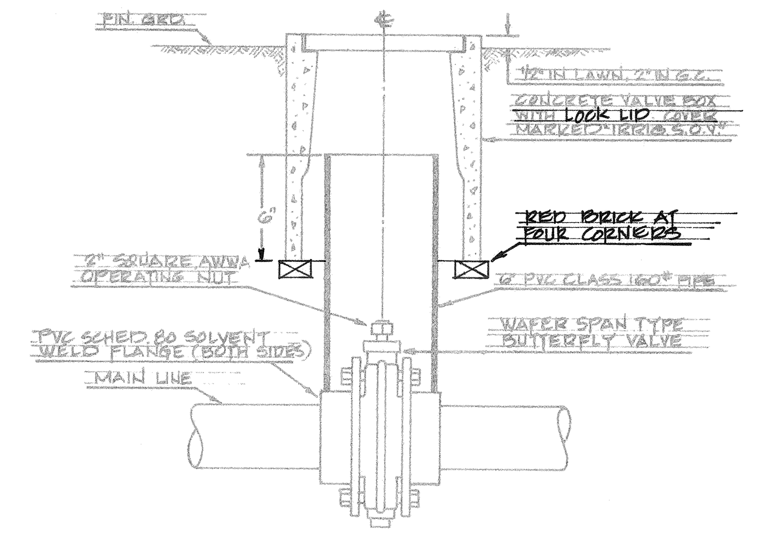
10 POP-UP RISER ASSEMBLY - SHRUB HD.
NO SCALE

SPECIFIED: HI-POP RISER - "VALCON PS-12
FLEXIBLE NIPPLE - KING BROS. IND. No FR 100 F
SPRINKLER HD. (REFER TO LEGEND ON EACH SHEET.)



3 AUTOMATIC CONTROLLER - PEDESTAL TYPE
NO SCALE SYMBOL ▬

SPECIFIED: AUTOMATIC CONTROLLER - SERIES 170 - MONITOR II (TORO)

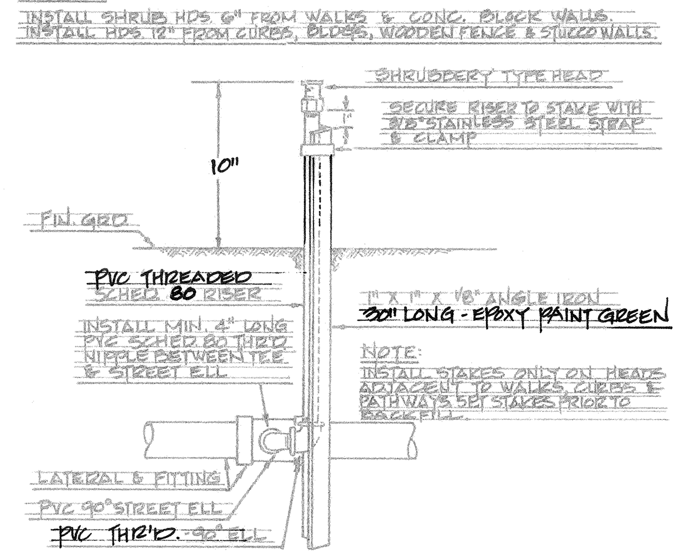


7 SHUT-OFF VALVE - 2 1/2" & OVER
NO SCALE SYMBOL ⊠

BUTTERFLY VALVE SHALL BE RESILIENT LINED WAFER SPAN TYPE WITH "O" RING FLANGE SEALS. BODY SHALL BE HIGH STRENGTH CAST IRON WITH ALUMINUM BRONZE DISC, 316 STAINLESS STEEL SHAFT, BUNA N SEATS & SEALS.

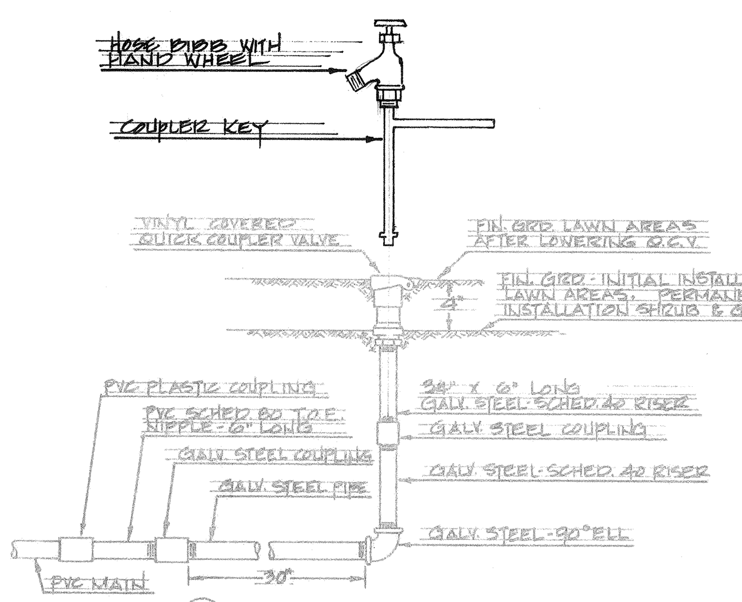
SPECIFIED: BUTTERFLY VALVE - ~~NORRISEAL~~ R-1010-43AA W/AWWA NUT.
VALVE BOX - BROOKS No 3TL

NOTE:
INSTALL SHRUB HDS 6" FROM WALKS & CONC. BLOCK WALLS.
INSTALL HDS 12" FROM CURBS, BLDGS, WOODEN FENCE & STUCCO WALLS.



11 RISER ASSEMBLY - SHRUB HEAD
NO SCALE

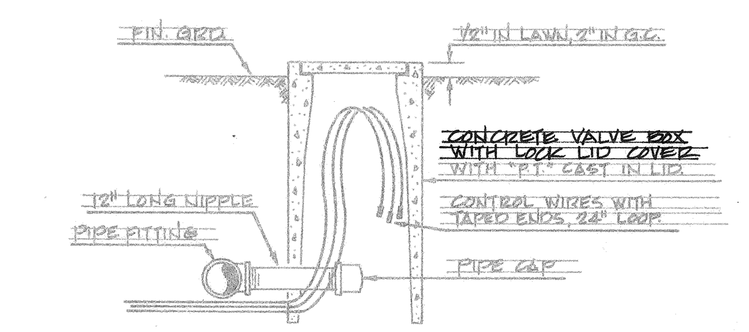
SPECIFIED: 3/8" SS STRAP & CLAMP - "VALSTRAP" BY "BAND-IT"



4 QUICK COUPLER VALVE
NO SCALE SYMBOL ◐

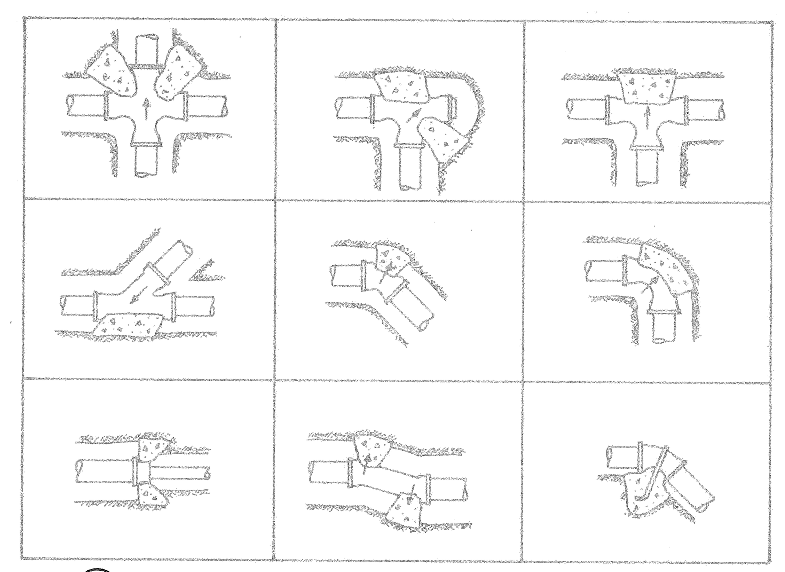
QUICK COUPLER VALVE SHALL BE TWO PIECE TYPE, BRONZE INTEGRAL FLOW CONTROL WITH YELLOW VINYL HINGED CAP, LOCKING TYPE.

SPECIFIED: QUICK COUPLER VALVE - RAINBIRD No 33D-LVC - 3/4"
COUPLER KEY - RAINBIRD No 33 K
HOSE BIBB - CHAMPION No 12-401 - 3/4"



8 OUTLETS FOR FUTURE CONNECTIONS
NO SCALE:

SPECIFIED: VALVE BOX - BROOKS No 3TL



12 TYPICAL DETAIL - CONCRETE THRUST BLOCKS
NO SCALE:

1- CONTRACTOR SHALL ARRANGE FOR SERVICES OF MFR'S QUALIFIED INSTRUCTOR.
2- SIZES OF ANCHOR & THRUST BLOCKS SHALL BE AS RECOMMENDED BY PIPE MFR.
3- ANCHOR & THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED SOIL.
4- CONCRETE SHALL ATTAIN 2000 P.S.I. COMPRESSIVE STRENGTH.
5- ANCHOR RODS SHALL BE 1/2" DIA. REINFORCING STEEL, ENCASED IN CONCRETE.
6- KEEP CONCRETE CLEAR OF ALL PIPE OPENINGS.

NOTES

CHECK & VERIFY ALL SITE CONDITIONS, UTILITIES & SERVICES PRIOR TO TRENCHING.

WHERE TREES, LIGHT STANDARDS, ETC. ARE AN OBSTRUCTION OF SPRAYS, PIPING & SPRINKLER HDS SHALL BE ADJUSTED AND/OR RELOCATED AS NECESSARY TO OBTAIN FULL COVERAGE WITHOUT EXCESSIVE OVERTHROW. DO NOT EXCEED SPACINGS SHOWN ON DRWGS.

IF IT BECOMES NECESSARY TO RELOCATE OR ALTER SPRINKLER HDS., VALVES, PIPING, ETC. DUE TO CHANGE IN SITE CONDITIONS, CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNERS AUTHORIZED REPRESENTATIVE PRIOR TO STARTING THESE REVISIONS.

PLANS ARE DIAGRAMATIC & APPROXIMATE. ALL VALVES SHALL BE LOCATED IN PLT'G AREAS & ALL PIPING SHALL BE INSTALLED IN PLANTING AREAS EXCEPT WHERE IT IS INFEASIBLE TO DO SO.

SPRINKLER HDS. SPECIFIED ARE AVAILABLE IN VARYING DEGREES OF ARCS. CONTRACTOR SHALL PROVIDE, AT EACH HD., THE ARC MOST SUITED TO PROVIDE ADEQUATE COVERAGE & PREVENT OVERSPRAY ON WALKS, ROADS, BLDGS, ETC.

ALL PIPING, PVC ELEC SLEEVES, ETC. UNDER PAVING SHALL BE INSTALLED PRIOR TO PAVING WORK. NO TEES, ELLS OR OTHER TURNS IN PIPING SHALL BE LOCATED UNDER PAVING EXCEPT WHERE SHOWN ON DRAWINGS. CAP ALL ENDS HAND TIGHT, PRIOR TO BACKFILL.

EACH REMOTE CONTROL VALVE SHALL BE CONNECTED TO AUTOMATIC CONTROLLER WITH No 14 PILOT WIRE & No 14 COMMON WIRE - TYPE U.F., COPPER, U.L. APPROVED, SOLID STRAND.

~~ALL AUTOMATIC CONTROLLERS~~, RISERS TO BACKFLOW PREVENTION DEVICES AND PUMP ASSEMBLY SHALL BE SET PLUMB. RISERS TO SPRINKLER HDS & QUICK COUPLER VALVES & ALL VALVES WITH STEMS SHALL BE SET PERPENDICULAR TO FIN. GRD.

COORDINATE IRRIGATION WORK WITH PLANTING PLANS TO AVOID CONFLICTING LOCATIONS BETWEEN PIPING & PLANT PITS.

ALL MATERIALS SHALL BE INSTALLED AS DETAILED ON DRAWINGS. HOWEVER, IF THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS DO NOT THOROUGHLY DESCRIBE THE METHODS OR TECHNIQUES TO BE USED, THEN THE CONTRACTOR SHALL FOLLOW THE INSTALLATION METHODS ISSUED BY THE MANUFACTURER. ALL SUCH LITERATURE MUST BE APPROVED BY THE IRRIGATION CONSULTANT.

NEW MAIN LINE PIPING TO BE AS FOLLOWS:
1- UPSTREAM SIDE OF BACKFLOW PREVENTER - GALV. STEEL - SCHED. 40.
2- DOWNSTREAM OF B.F.P. - PVC. 1120, SCHED. 40 SOLVENT WELDED PLASTIC PIPE (1/2" THRU 2").
3- DOWNSTREAM OF B.F.P. - PVC. 1120 CLASS 200# RING-TYPE PLASTIC PIPE (2 1/2" & OVER IN SIZE).

INSTALL DI-ELECTRIC UNIONS WHEN DISSIMILAR PIPES ARE CONNECTED TOGETHER. PVC PLASTIC PIPE SHALL BE CONTINUOUSLY MARKED WITH MANUFACTURER'S NAME, PIPE SIZE (I.P.S.) CLASS OR SCHEDULE NUMBER, MFR'S LOT NUMBER & N.S.F. APPROVAL.

CONTRACTOR SHALL VERIFY ALL EXIST. CONDITIONS & SHALL MAKE WHATEVER ADJUSTMENTS, REPAIRS, EXTENSIONS, ETC. REQUIRED TO INSURE CONTINUOUS & FULL IRRIGATION COVERAGE BETWEEN NEW & EXISTING LANDSCAPE WORK.

CONTRACTOR WILL ASSURE THE OWNER THAT ANY DAMAGE OR HINDRANCE TO ANY EXIST'G IRRIGATION SYSTEM DUE TO CONSTRUCTION WILL BE REPAIRED IMMEDIATELY SO THAT NORMAL IRRIGATION CAN RESUME.

CONTRACTOR SHALL CAP ALL OUTLETS AFTER REMOVAL OF EXIST. HEADS, VALVES, ETC. & HE SHALL BE RESPONSIBLE FOR ANY LEAKS FOUND. ALL LEAKS WITHIN LIMITS OF THIS CONTRACT SHALL BE CORRECTED.

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REGISTERED LANDSCAPE ARCHITECT - David Hayes - 11/17/78 - STATE OF CALIFORNIA

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PARK IMPROVEMENT PROGRAM - CITY OF RIVERSIDE
SPRINKLER LEGEND, NOTES, DETAILS

date 11-17-78
revised
sheet no. SP-6

P-128-41

STATE PROJ. NO. 33-0011, 33-0012