

REVISIONS	BY
PER CITY PLAN	PD
5-26-93	

LAND DESIGN
 LANDSCAPE ARCHITECTURE
 URBAN AND OPEN SPACE PLANNING
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CONSTRUCTION LAYOUT PLAN

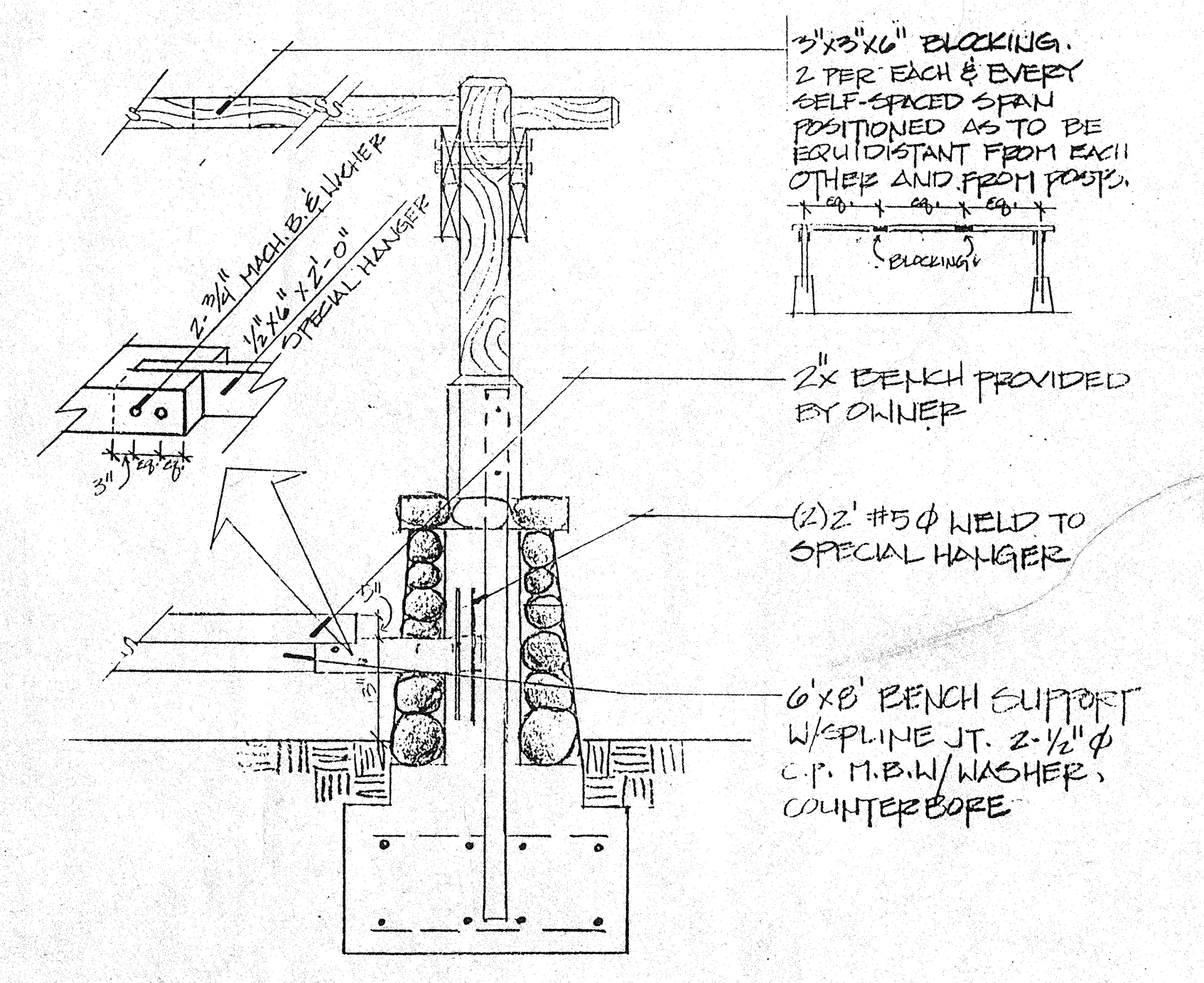
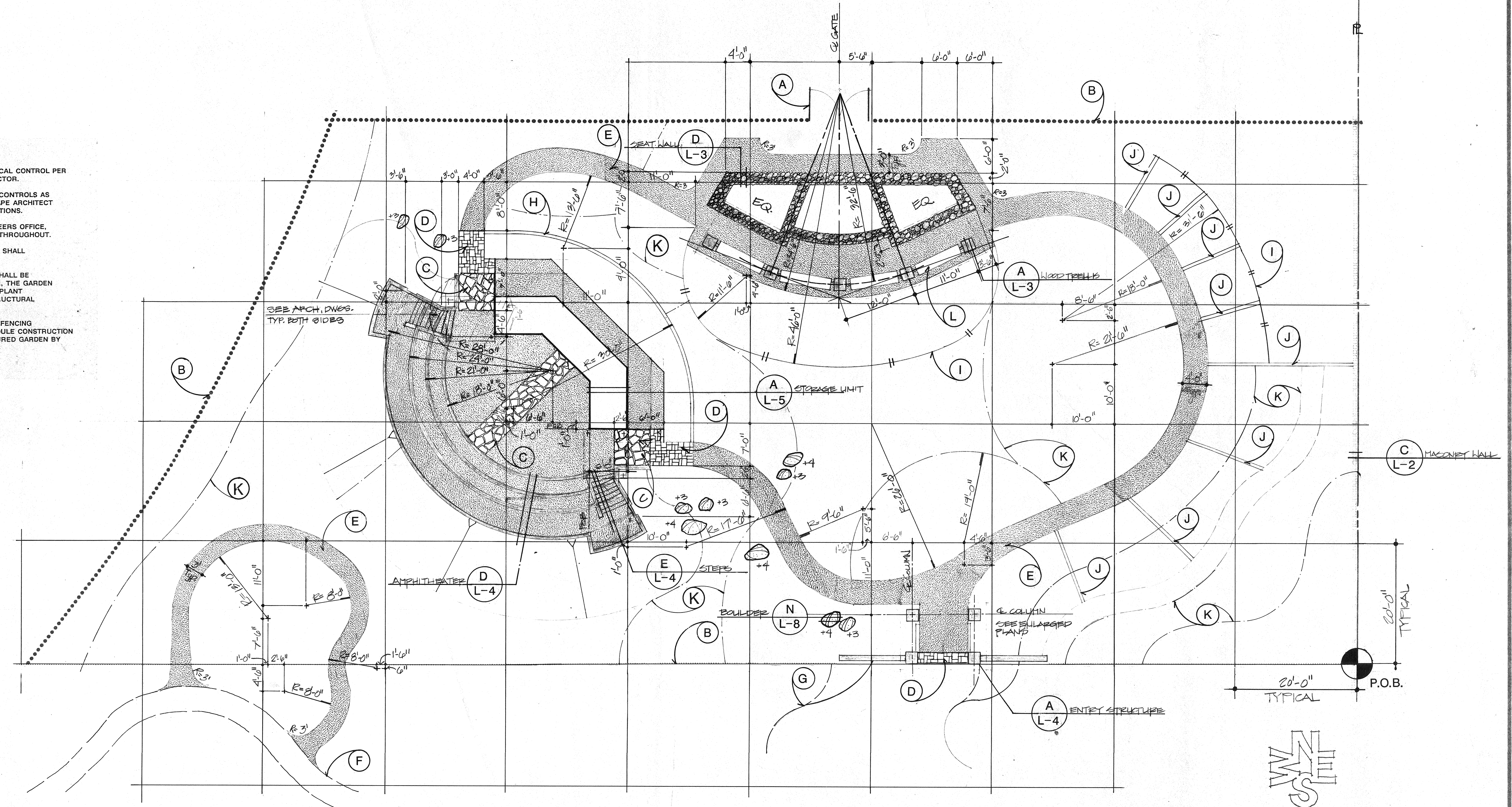
DEMONSTRATION GARDEN
 CHINO BASIN WATER CONSERVATION DISTRICT
 4594 SAN BERNARDINO STREET MONTCLAIR, CA 91763

DRAWN	1/2/93
CHECKED	1/2/93
DATE	1/2/93
SCALE	1/8" = 1'-0"
JOB NO.	033H
SHEET	3
L-3	
9 SHEETS	

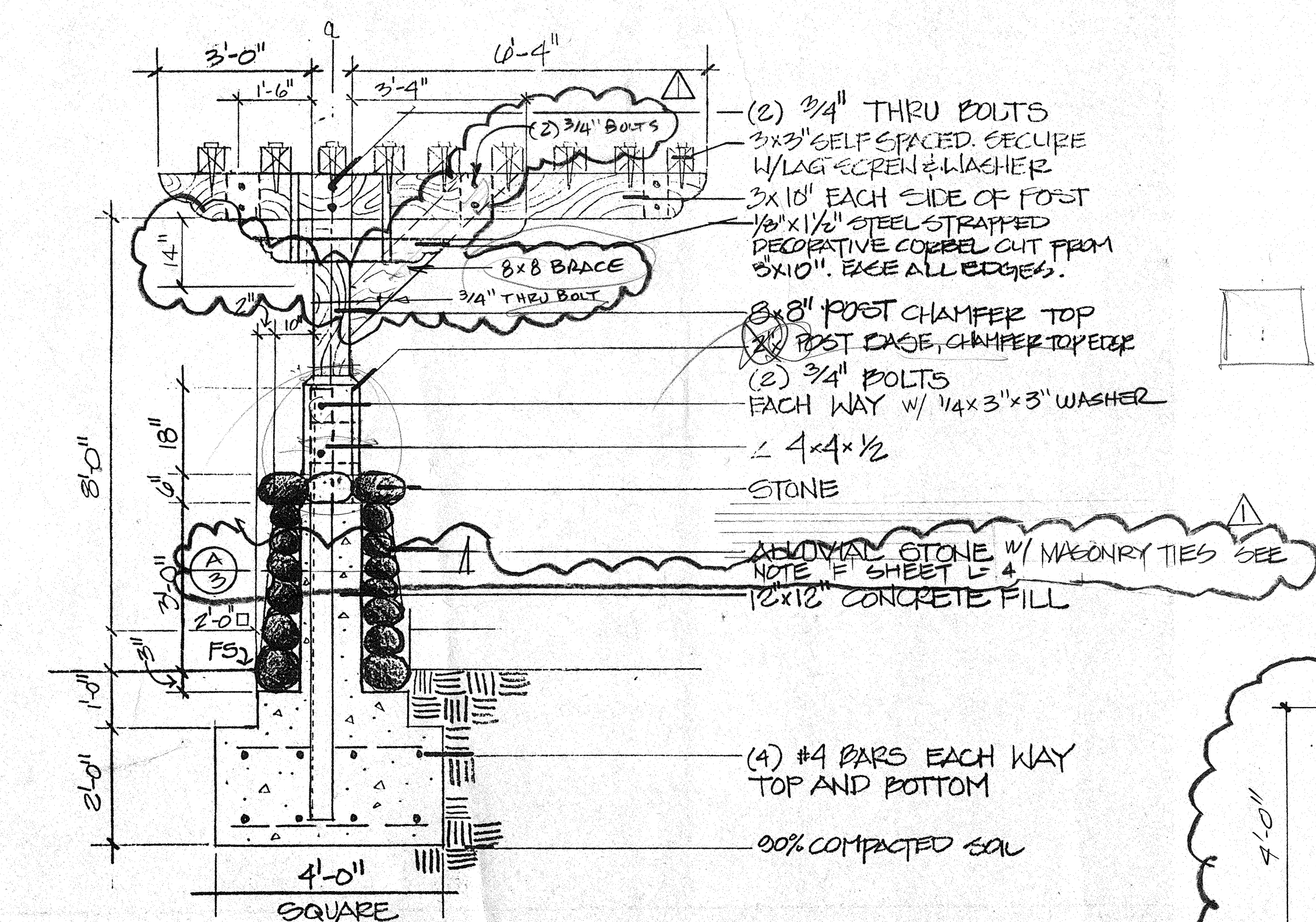
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Construction notes

- GENERAL:**
- THE OWNER SHALL SUPPLY HORIZONTAL AND VERTICAL CONTROL PER THE SPECIFICATIONS, AT NO COST TO THE CONTRACTOR.
 - ALLOW 24 HOURS NOTICE PER ALL FORMS OF SITE CONTROLS AS PROVIDED BY THE CLIENTS ENGINEER AND LANDSCAPE ARCHITECT AND 72 HOURS NOTICE FOR CITY REQUIRED INSPECTIONS.
 - SITE SOILS REPORTS ARE AVAILABLE AT THE ENGINEERS OFFICE. A MINIMUM CONDITION OF 85% COMPACTION EXIST THROUGHOUT.
 - IRRIGATION LINES EXIST AT SITE PERIMETER, THESE SHALL REMAIN IN PLACE IN AN OPERABLE CONDITION.
 - TRENCHING WITHIN THE EXISTING GARDEN LIMITS SHALL BE COMPLETED IN A CAREFUL AND EXPEDIOUS MANNER, THE GARDEN REMAINS OPEN TO THE PUBLIC, PROTECT EXISTING PLANT MATERIALS, IRRIGATION COMPONENTS AND THE STRUCTURAL CROSS SECTION OF THE D.G. PATH.
 - THE EXISTING GARDEN SHALL REMAIN SECURED BY FENCING DURING THE EXECUTION OF THIS CONTRACT. SCHEDULE CONSTRUCTION AND FENCE RELOCATION TO ACCOMMODATE A SECURED GARDEN BY THE CLOSE OF CALENDAR DAY.



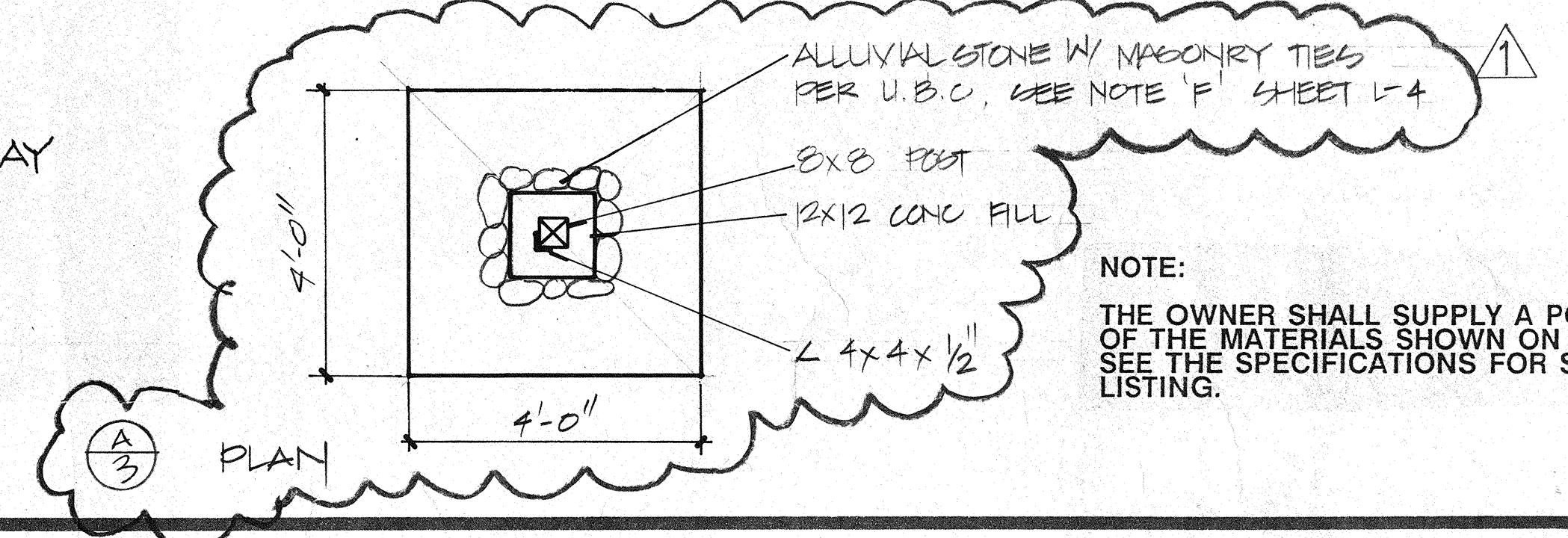
A
2 REDWOOD BENCH DETAIL



A
1 WOOD TRELLIS SECTION

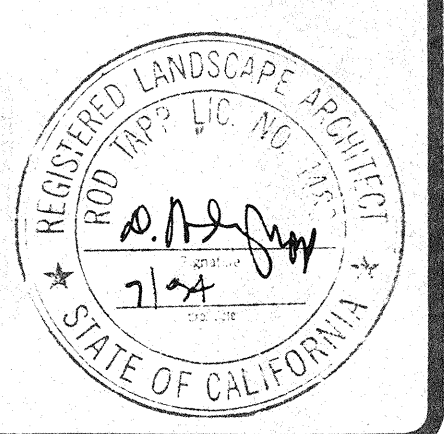
Legend

- (A) WROUGHT IRON DOUBLE GATES, 10' OPENING SIMILAR TO EXISTING FENCING. PROVIDE DROP PIN AND LOCK KEY LOCK TO MATCH MASTER SCHLAGE KEY SYSTEM.
- (B) WROUGHT FENCING REFER TO SHEET L-2.
- (C) CONCRETE BASE FOR NATIVE FLAG STONE PAVING - REFER TO SHEET L-4 DETAIL 'C'.
- (D) CONCRETE BASE FOR ARCHITECTURAL STONE PAVER, REFER TO SHEET L-4 DETAIL 'C'.
- (E) DECOMPOSED GRANITE PATH, REFER TO SHEET L-3, DETAIL 'O'.
- (F) EXISTING D.G. PATH TO REMAIN.
- (G) EXISTING D.G. PATH TO BE ADJUSTED PER THIS SHEET.
- (H) 6" CONCRETE HEADER, REFER TO SHEET L-4 DETAIL 'B'.
- (I) REDWOOD HEADER, REFER TO SHEET L-8, DETAIL 'T'.
- (J) 6" X 6" PRESSURE TREATED LANDSCAPE TIES. SET PER DIRECTION OF LANDSCAPE ARCHITECT.
- (K) SHOVEL CUT.
- (L) REDWOOD BENCH. INSTALL PER DIRECTION OF LANDSCAPE ARCHITECT. BENCH AND HARDWARE PROVIDED BY OWNER.



A
3 PLAN

NOTE:
 THE OWNER SHALL SUPPLY A PORTION OF THE MATERIALS SHOWN ON THIS SHEET. SEE THE SPECIFICATIONS FOR SPECIFIC LISTING.



Irrigation Notes

- GENERAL - ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CITY AND COUNTY CODES, THESE PLANS AND SPECIFICATIONS.
 - THE CONTRACTOR SHALL CAREFULLY INSPECT THE SITE AND VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS PRIOR TO COMMENCEMENT OF ANY WORK UNDER THIS CONTRACT.
 - THE CONTRACTOR SHALL CARRY ALL WORKER'S COMPENSATION, PUBLIC LIABILITY AND PROPERTY DAMAGE INSURANCE, AS REQUIRED BY THE OWNER.
 - PRIOR TO STARTING WORK, CONTRACTOR SHALL COORDINATE IRRIGATION P.O.C., MAINLINE AND IRRIGATION COVERAGE TESTING WITH LANDSCAPE ARCHITECT. (NOTE: REDUCED PRESSURE BACKFLOW PROTECTION EXISTS AS COMPLETED IN EARLY PHASED WORK.)
 - THE QUALITY OF WORKMANSHIP AND MATERIALS SHALL BE OF THE HIGHEST STANDARDS GENERALLY ACCEPTED BY THE INDUSTRY.
 - THE CONTRACTOR SHALL KEEP THE PREMISES CLEAN AND FREE OF EXCESS EQUIPMENT, MATERIALS AND RUBBISH INCIDENTAL TO HIS WORK.
- SCOPE OF WORK - THE CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR, TRANSPORTATION, EQUIPMENT AND PROPERTY AND SHALL PERFORM ALL OPERATIONS REQUIRED FOR A COMPLETE AND OPERABLE IRRIGATION SYSTEM AS INDICATED ON, OR REASONABLY IMPLIED, BY THE DRAWINGS AND/OR NOTES.
 - INCLUDED AS A PART OF THE IRRIGATION WORK, BUT NOT LIMITED BY IT, ARE THE FOLLOWING ITEMS: COORDINATE WITH OWNER DELIVERY OF OWNER SUPPLIED EQUIPMENT (SEE SPECIFICATIONS). THE FURNISHING, INSTALLING AND TESTING OF ALL MAINLINE, POINT OF CONNECTION, LATERAL LINE, RISERS AND FITTINGS, RAM DRIPPERLINE, XERISCAPE EQUIPMENT, CONTROL WIRES, ELECTRICAL CONTROL VALVES AND THE EXCAVATION, BACKFILL AND ALL OTHER WORK IN ACCORDANCE WITH THESE PLANS, DETAILS AND NOTES.
 - ALL IRRIGATION WORK SHALL BE GUARANTEED BY THE CONTRACTOR AS TO MATERIALS AND WORKMANSHIP, INCLUDING SETTLEMENT OF BACKFILLED TRENCHES BELOW GRADE FOR A PERIOD OF ONE (1) YEAR FOLLOWING THE DATE OF FINAL ACCEPTANCE OF THE WORK.
- CONTACT KURT MALONEY OF NETAFIM IRRIGATION INC. PHONE: 209-498-6880 FOR MANUFACTURER'S RECOMMENDATION REGARDING RAM DRIPPERLINE INSTALLATION.
- THE LANDSCAPE ARCHITECT SHALL DECIDE ALL QUESTIONS RELATING TO INTERPRETATION OF THE DRAWINGS AND THE ACCEPTABLE FULFILLMENT OF THE CONTRACT.
- PIPING SHOWN ON THE PLANS IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL ROUTE PIPING TO AVOID CONFLICT WITH STATIONARY ELEMENTS AND IN SUCH A MANNER AS TO CONFORM WITH THE VARIOUS DETAILS.
- THE CONTRACTOR SHALL AT ALL TIMES PROTECT HIS WORK FROM DAMAGE AND THEFT AND REPLACE ALL DAMAGED OR STOLEN PARTS AT HIS EXPENSE UNTIL THE WORK IS ACCEPTED IN WRITING BY THE OWNER.
- EXTREME CARE SHALL BE EXERCISED IN EXCAVATING AND WORKING NEAR EXISTING UTILITIES. CONTRACTOR SHALL VERIFY THE LOCATION AND CONDITION OF ALL UTILITIES AND BE RESPONSIBLE FOR ANY DAMAGE.
- IRRIGATION DESIGN IS BASED ON 65 PSI AVAILABLE WATER PRESSURE AND 60 GPM AT THE P.O.C. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO CONSTRUCTION; SHOULD A DISCREPANCY EXIST, NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING CONSTRUCTION. COMMON WIRE SHALL BE #14, WHITE; ALL PILOT WIRE SHALL BE AWG #16, RED OR BLACK.
- ALL CONTROL WIRE AND IRRIGATION LINE RUNS UNDER A/C PAVING SHALL BE ENCASED IN SCHEDULE 40 PVC PIPE SLEEVES.
- FINAL LOCATION OF CONTROL VALVES SHALL BE APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT.
- ALL BRASS OR GALVANIZED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE OR RED-LUBE JOINT COMPOUND (OR EQUAL). ALL PVC THREADED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE.
- ALL PVC SOLVENT-WELD CONNECTIONS SHALL BE MADE WITH SOLVENT-WELD MATERIALS AS RECOMMENDED BY THE PIPE MANUFACTURER. SOLVENT-WELD PRIMER SHALL BE APPLIED AT ALL CONNECTIONS.
- UPON COMPLETION OF THE PROJECT, CONTRACTOR TO TURN OVER TO OWNER:
 - A REPRODUCIBLE SET OF 'AS-BUILT' DRAWINGS AND CONTROLLER CHART.
 - TWO (2) QUICK COUPLER KEYS AND MATCHING HOSE SWIVELS.
 - ONE (1) BAG OF NETAFIM RAM DRIPPERLINE COUPLINGS.
- AS-BUILT DRAWINGS - THE CONTRACTOR SHALL PROVIDE AND KEEP UP TO DATE, A COMPLETE 'AS-BUILT' RECORD SET OF PRINTS WHICH SHALL BE CORRECTED DAILY AND SHOWN EVERY CHANGE FROM THE ORIGINAL DRAWINGS. PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL TRANSCRIBE ALL INFORMATION FROM THE 'AS-BUILT' SET TO A REPRODUCIBLE OZALID SEPIA, PROCURED FROM THE LANDSCAPE ARCHITECT. ALL WORK SHALL BE NEAT AND LEGIBLE, LOCATING THE FOLLOWING ITEMS FROM PERMANENT POINTS OF REFERENCE: GATE VALVES, MAIN LINE AND CONTROL WIRE ROUTING, P.O.C., BACKFLOW DEVICE, CONTROL VALVES AND CONTROLLER, QUICK COUPLING VALVES, AND OTHER PERTINENT UNDERGROUND ITEMS.
- CONTROLLER CHART - UPON APPROVAL OF THE FINAL 'AS-BUILT' DRAWINGS, CONTRACTOR SHALL PROVIDE ONE CHART FOR EACH CONTROLLER INSTALLED.
 - THE CHART IS TO BE A REDUCED COPY OF THE APPROVED 'AS-BUILT' SYSTEM (A BLACK LINE PRINT REDUCED TO THE MAXIMUM SIZE THE CONTROLLER DOOR WILL ALLOW, COLOR WITH A DIFFERENT COLOR FOR EACH VALVE STATION).
 - WHEN COMPLETED AND APPROVED, THE CHART SHALL BE HERMETICALLY SEALED BETWEEN TWO (2) PIECES OF 20 MIL CLEAR PLASTIC AND MOUNTED ON THE INSIDE OF THE CONTROLLER DOOR USING VELCRO TAPE OR EQUAL.
- LATERAL LINE SHALL BE SET AT MIN. 12" DEPTH. MAINLINE SHALL BE AT MIN. 24" DEPTH. NETAFIM RAM DRIPPERLINE, INTAKE HEADER & EXHAUST HEADER SHALL BE SET AT A DEPTH OF 4" AND AS SHOWN ON THE PLANS.
- MAINLINE SHALL BE PRESSURE CHECKED AT 1 1/2 TIMES EXISTING STATIC PRESSURE. ALL LATERAL LINES PLACED UNDER PAVEMENT SHALL BE PRESSURE CHECKED AT EXISTING STATIC PRESSURE.
- LOCATE ALL VALVES IN SHRUB AREAS. IDENTIFY VALVE STATION AND TYPE ON VALVE BOX LID AND INSIDE BOX WITH MANUFACTURED PVC TAGS.

NOTES

ALL VALVES ARE TAGGED INSIDE OF VALVE BOX

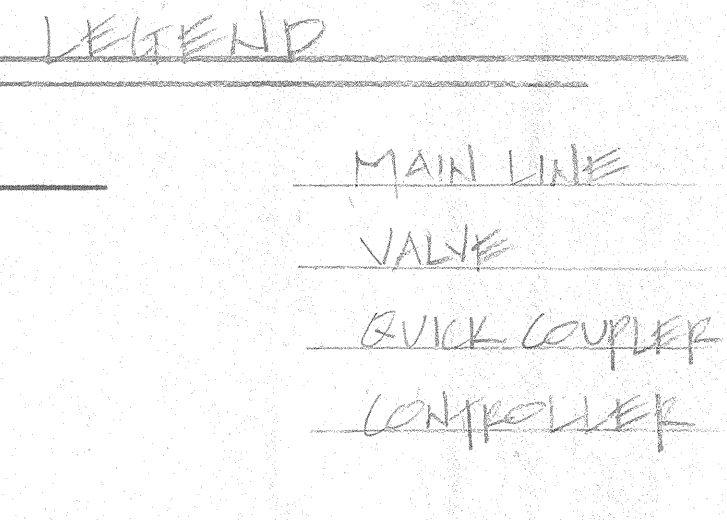
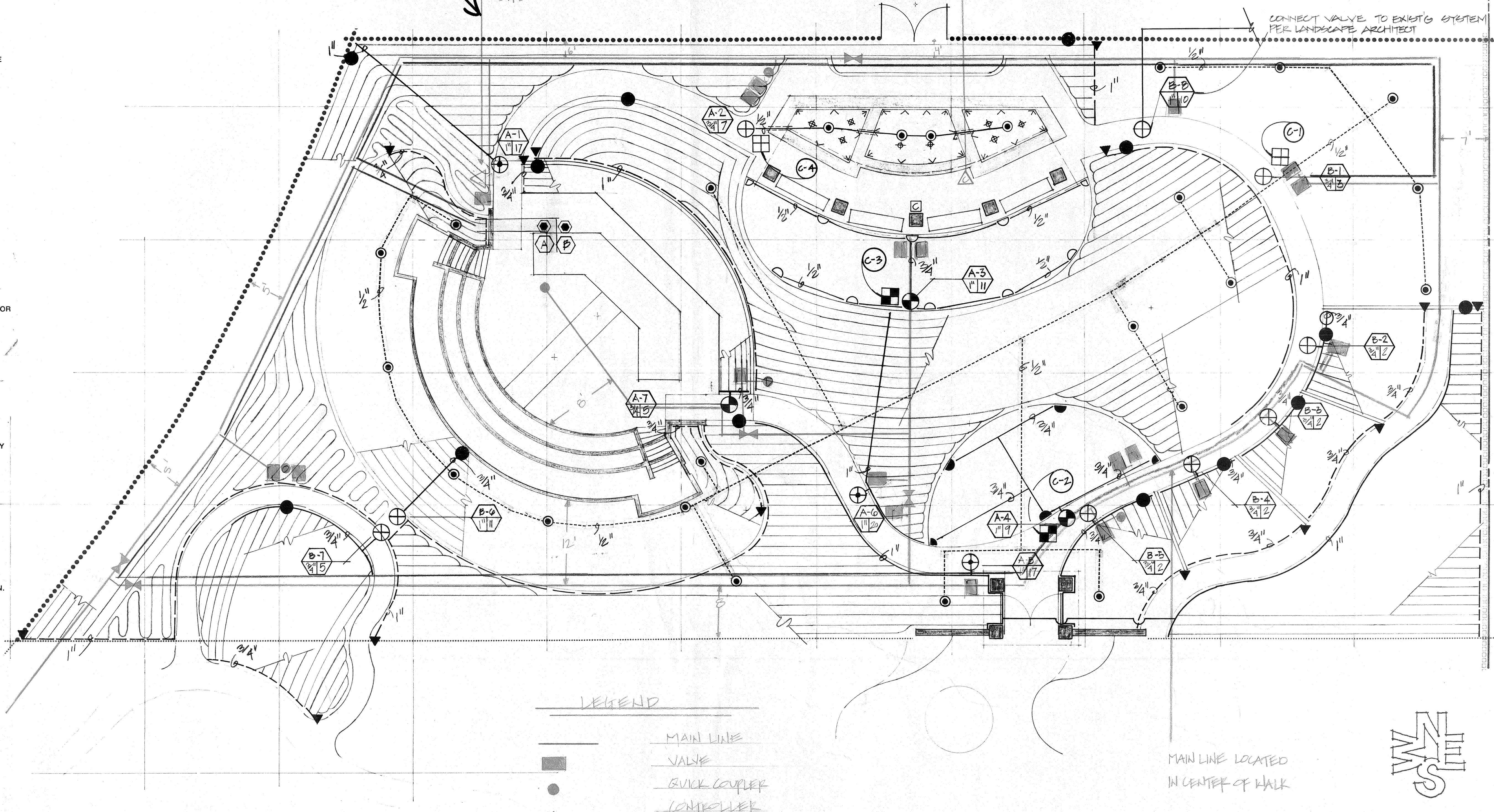
OK
NETAFIM
CENTRAL
CONTROLLER

TORO
NO - DOES NOT EXIST

TORO SAT CONTROLLER LOCATION FOR PARK SITE

CONTROLLER C LOCATION

NO
DOES NOT EXIST



Irrigation Legend

SYMBOL	MANUFACTURER & PART NUMBER	DESCRIPTION	GPM	PSI	REMARKS
⊕	RAIN BIRD EFB-CP-PRS	ELECTRIC REMOTE CONTROL VALVE			TURF AREAS, SIZE PER PLAN INSTALL PER DETAIL
⊕	RAIN BIRD EFB-CP-PRS	ELECTRIC REMOTE CONTROL VALVE			EDUCATIONAL VALVE, SIZE PER PLAN INSTALL PER DETAIL
⊕	RAIN BIRD EFB-CP-PRS	ELECTRIC REMOTE CONTROL VALVE			HIGH FLOW NETAFIM DRIP ABOVE 10 GPM SIZE PER PLAN, INSTALL PER DETAIL
⊕	TORO 264-06-03	ELECTRIC REMOTE CONTROL VALVE			LOW FLOW DRIP, SIZE PER PLAN INSTALL PER DETAIL
⊕	TORO 264-06-03	ELECTRIC REMOTE CONTROL VALVE			EDUCATIONAL LOW FLOW DRIP, SIZE PER PLAN INSTALL PER DETAIL
⊕	TORO VISION 11 #189-96-01	9 STATION CONTROLLER			INSTALL PER DETAIL, METAL CABINET
⊕	TORO VISION 11 #189-99-01	6 STATION CONTROLLER			INSTALL PER DETAIL, PEDESTAL MOUNT METAL CABINET
⊕	TORO HOIST-O-MATIC #91-01-90	SOIL SENSOR			INSTALL PER PLAN
—	LASCO OR EQUAL CLASS 200 PVC LATERAL LINE	LATERALS & NETAFIM INTAKE			
---	LASCO OR EQUAL CLASS 200 PVC LATERAL LINE	NETAFIM EXHAUST			
⊕	NETAFIM 1/2" RAM DRIPPERLINE	10" EMITTER SPACING TURF APPLICATION; 12" EMITTER SPACING			INSTALL PER MANUFACTURER'S RECOMMENDATIONS
---	LASCO OR EQUAL CLASS 200 PVC LATERAL LINE	DEEP WATERING LINE			
▲	NETAFIM TLFV	LINE FLUSH VALVE			INSTALL PER DETAIL, & MANUFACTURER'S RECOMMENDATIONS
●	NETAFIM TLAVV	AIR VACUUM RELIEF VALVE			INSTALL PER DETAIL, & MANUFACTURER'S RECOMMENDATIONS
⊕	TORO DM-9	MULTI-PORT DRIP MANIFOLD			INSTALL PER DETAIL
⊕	TORO 570 12 SERIES 32-W, 12-0	TURF POP-UP	1.1 GPM 40 PSI .9 GPM		INSTALL PER DETAIL
⊕	TORO 300-15 0M1	ADJUSTABLE ARC STREAM ROTOR	2.0 GPM 35 PSI 1.0 GPM		INSTALL PER DETAIL
⊕	TORO MAXIJET M205SCA, M125SCA, M165SCA	LOW FLOW SPRAY STAKE ASSEMBLIES	20.5 GPM 30 PSI 12.5 GPM 6.5 GPM		INSTALL PER DETAIL

MAIN LINE LOCATED IN CENTER OF WALK

WV
N
S
E

1/8" = 1'-0"

NOTES

WIPE COMES OUT OF BUILDING ON NORTH SIDE AND THEN HEADS WEST TO MIL TRENCH

GREEN SHOWING WIPE RUN FOR SPARE WIPE

NOTE:
THE OWNER SHALL SUPPLY A PORTION OF THE MATERIALS SHOWN ON THIS SHEET. SEE THE SPECIFICATIONS FOR SPECIFIC LISTING.

MAR 17 1993



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AS BUILT
IRRIGATION PLAN

DEMONSTRATION GARDEN
CHINO BASIN WATER CONSERVATION DISTRICT
4594 SAN BERNARDINO STREET MONTCLAIR, CA 91763

DRAWN	KW
CHECKED	PET
DATE	1-22-03
SCALE	1/8" = 1'-0"
JOB NO.	033H
SHEET	

L-6

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See sheet L-8 for irrigation details