

PLANT PALETTE

	T-AS	ACACIA SMALLII (multi) Sweet Acacia	24" BOX	14
	T-PH	PARKINSONIA 'Desert Museum' (multi) Thornless Palo Verde	24" BOX	12

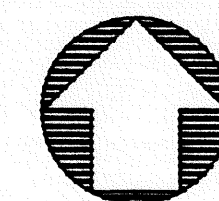
	BA	BRAHEA ARMATA Mexican Blue Palm	Brown Trunk Height 1 foot	4
	PD	PHOENIX DACTYLIFERA Date Palm	Relocated on site Heights vary. Field Verify.	9

	BL	BOUGAINVILLE "On-La-La" Dearf Bougainville	5 Gallon	54
	CP	CAESALPINIA PULCHERRIMA Reg Bird of Paradise	5 Gallon	16
	HP	HESPERALOE PARVIFLORA Red Yucca	1 Gallon	58
	LM	LANTANA MONTEVIDENSIS Purple Trailing Lantana	1 Gallon	28
	LGH	LANTANA M. "Gold Mound" Trailing Lantana	1 Gallon	32
	LT	LARREA TRIDENTATA Greosote Bush	5 Gallon	10
	XC	XYLOSMA CONGESTUM Shiny Xylosum	5 Gallon	29
	YE	YUCCA ELATA Spiral Yucca	5 Gallon	20

 DGF DESERT GOLD 'FINES' - 3/8" minus. 2 INCHES THICK. 2,600 sq.ft. +/- SPREAD BY SHOVEL, RAKE SMOOTH AND COMPACT WITH WATER BY GARDEN HOSE. USE LIGHT SPRINKLE. NO RUNOFF OR PUDDLING SHALL OCCUR.

 RK RAKED SOIL = 46,000 square feet +/-.

QUANTITIES LISTED FOR CONVENIENCE OF CONTRACTOR ONLY. QUANTITIES LISTED ARE NOT FOR ACCURATE BIDDING USE. PLANS TAKE PRECEDENCE.



GRAPHIC SCALE: 1"=30'

PREPARED BY:

RAY LOPEZ ASSOCIATES

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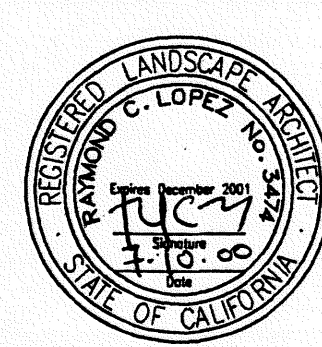
NO WORK SHALL BE DONE ON THIS
SITE UNTIL BELOW AGENCY IS NOTIFIED
OF INTENTION TO GRADE OR EXCAVATE.

Underground Service Alert

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RAYMOND C. LOPEZ
LANDSCAPE ARCHITECT, C.L.N. 3474

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A NEW TRAVEL STOP
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LANDSCAPE PLAN

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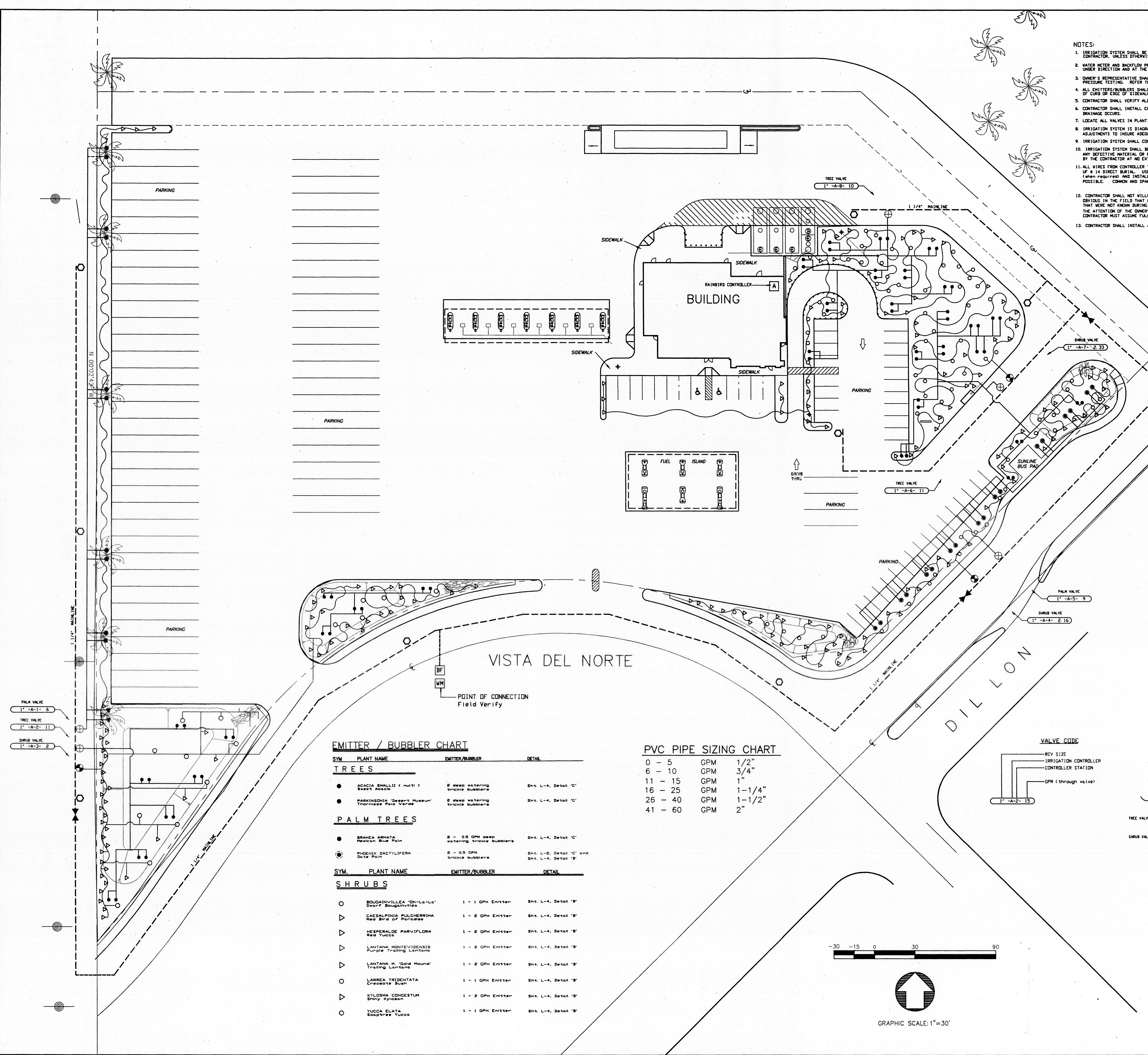
- NOTES:**
1. IRRIGATION SYSTEM SHALL BE INSTALLED BY A LICENSED C-27 LANDSCAPE CONTRACTOR, UNLESS OTHERWISE SPECIFIED BY THE OWNER.
 2. WATER METER AND BACKFLOW PREVENTER BY LOCAL WATER DISTRICT. INSTALL UNDER DIRECTION AND AT THE COST OF THE CONTRACTOR.
 3. OWNER'S REPRESENTATIVE SHALL INSPECT AND APPROVE MAINLINE AND LATERAL PRESSURE TESTING. REFER TO IRRIGATION SPECIFICATIONS.
 4. ALL EMITTERS/BUBBLERS SHALL BE INSTALLED A MINIMUM 3 FEET FROM BACK OF CURB OR EDGE OF SIDEWALK, UNLESS FIELD CONDITIONS PRESENTLY VARY.
 5. CONTRACTOR SHALL VERIFY ALL PRESSURES ON SITE PRIOR TO CONSTRUCTION.
 6. CONTRACTOR SHALL INSTALL CHECK VALVES IN ALL HEADS IN WHICH LOW HEAD DRAINAGE OCCURS.
 7. LOCATE ALL VALVES IN PLANTING AREAS.
 8. IRRIGATION SYSTEM IS DIAGNOSTIC. CONTRACTOR MUST MAKE INFELD ADJUSTMENTS TO INSURE ADEQUATE COVERAGE.
 9. IRRIGATION SYSTEM SHALL CONFORM TO STATE AND LOCAL CODES.
 10. IRRIGATION SYSTEM SHALL BE FULLY GUARANTEED FOR A PERIOD OF ONE YEAR. ANY DEFECTIVE MATERIAL OR POOR WORKMANSHIP SHALL BE REPLACED OR CORRECTED BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
 11. ALL WIRES FROM CONTROLLER TO ELECTRIC CONTROL VALVES SHALL BE COPPER UP # 14 DIRECT BURIAL. USE BLACK FOR PILOT, WHITE FOR COMMON, ORANGE SPARE (when required) AND INSTALL IN CONCRETE TRENCH WITH MAINLINE PIPE AND WHERE POSSIBLE. COMMON AND SPARE WIRE SHALL BE COPPER UP # 12 OR HEAVIER.
 12. CONTRACTOR SHALL NOT WILLFULLY INSTALL THE SYSTEM AS DESIGNED WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT WERE NOT KNOWN DURING DESIGNING. SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. OTHERWISE, THE IRRIGATION CONTRACTOR MUST ASSUME FULL RESPONSIBILITY FOR ANY AND ALL NECESSARY REVISIONS.
 13. CONTRACTOR SHALL INSTALL ALL EMITTERS ON UP-HILL SIDE OF PLANT.

NOTE:
CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY THE LANDSCAPE ARCHITECT OR HIS REPRESENTATIVE OF ANY DIMENSIONAL ERRORS, OMISSIONS, OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK. REFER TO CIVIL DRAWINGS FOR HORIZONTAL AND VERTICAL DATA.
QUANTITIES LISTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT INTENDED FOR ACCURATE BIDDING USE.

IRRIGATION LEGEND

SYMBOL	ITEM DESCRIPTION	DETAIL
○	LOCATE EMITTERS ON UP-HILL SIDE OF PLANT.	
○	BOGSMITH - "SL200" Series Drip Emitters on 1/2" riser. 1.0 GPH 20 P.S.I.	B - Sheet L-8
○	BOGSMITH - "SL200" Series Drip Emitters on 1/2" riser. 2.0 GPH 20 P.S.I.	B - Sheet L-8
●	RAINBIRD - 1402 Bubbler. Full circle, trickle pattern. 0.5 GPH 20 P.S.I.	C - Sheet L-8
●	RAINBIRD - 1402 Bubbler. Full circle, trickle pattern. 0.5 GPH 20 P.S.I.	B - Sheet L-8
A	RAINBIRD CONTROLLER RAINBIRD - ESP - 12LX (12 Station Controller). Install controller per manufacturer's specifications. Install in Linear Enclosure - Point enclosure tan.	I - Sheet L-8
WM	MOISTURE SENSOR - Install Watermark 4 zone moisture sensor for new controller.	
WM	3/4" WATER METER - Installed by Local Water District under direction and at the cost of the Contractor. Field Test - Supply written report to Owner and Landscape Architect.	
BF	3/4" BACKFLOW PREVENTER ASSEMBLY - Installed by Local Water District under the direction and at the cost of the Contractor. Field Test - Supply written report to Owner and Landscape Architect.	
---	1 1/4" SCHEDULE 40 PVC MAINLINE	H - Sheet L-8
---	TREE/PALE LATERAL CLASS 200 PVC LATERAL LINE - SIZE PER P.V.C. PIPE SIZING CHART.	H - Sheet L-8
---	CLASS 315 PVC LATERAL LINE - SIZE 1/2" Biameter.	
---	SHRUB LATERAL CLASS 200 PVC LATERAL LINE - SIZE PER P.V.C. PIPE SIZING CHART.	H - Sheet L-8
---	CLASS 315 PVC LATERAL LINE - SIZE 1/2" Biameter.	
⊕	REMOTE CONTROL VALVE (RCV) and (GPH) GATE VALVE. NIBCO L100 R120. RAINBIRD-OR SERIES ELECTRIC REMOTE CONTROL WITH PRE-3 PRESSURE REGULATION MODEL. PLACE IN TAN LOCKING VALVE BOX.	F - Sheet L-8
⊕	DRIP VALVE ASSEMBLY. GATE VALVE (GPH) NIBCO L100 R120. LINE SIZE. FILTER - Ag Products 4E-1" (150 to 200 mesh). WATER - 1/2" (100-150 mesh). ELECTRIC REMOTE VALVE. IN CARSON BOX #1730 - TAN COLORED BOX.	A - Sheet L-8
⊕	GATE VALVE (GV) NIBCO. LINE SIZE - IN TAN COLORED BOX.	E - Sheet L-8
⊕	TWO PIECE QUICK COUPLING VALVE (QCV). RAINBIRD 4000. SUPPLY 2 - 4/4" VALVE KEYS TO OWNER. INSTALL IN TAN COLORED VALVE BOX.	D - Sheet L-8
⊕	NOTE: SLEEVES SHALL BE TWO AND HALF TIMES AS LARGE AS THE PIPE SIZE. INSTALL UNDER ALL HARDSCAPE (e.g. asphalt, curbs, sidewalks, walls, etc.) EXISTING WATER PRESSURE ON SITE = VERIFY ON SITE PRIOR TO CONSTRUCTION. Adjust irrigation as needed, if required.	
	CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO COMMENCING WORK.	
	DRIP SYSTEM SHOULD ALLOW PRESSURE REDUCTION TO APPROXIMATELY 20 P.S.I. UNLESS GALLONAGE OR PRESSURE LOSS REQUIRE A HIGHER SETTING.	
	ELECTRIC METER - Supplied by Owner. Contractor to connect Controller to meter. Contractor to supply required Circuit Breaker per code, as needed.	

NOTE: RAINBIRD "ACV" SERIES: ADJUSTABLE CHECK VALVE. LINE SIZE - INSTALL PER EVERY 5 FEET OF GRADE. CHANGE MINIMUM (OR AS NEEDED). PLACE IN 4" ROUND TAN VALVE BOX W/ GRAVEL. MARK L10 "OK-VL".



EMITTER / BUBBLER CHART

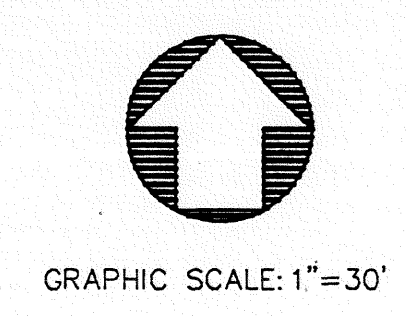
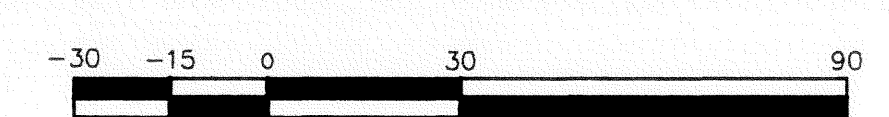
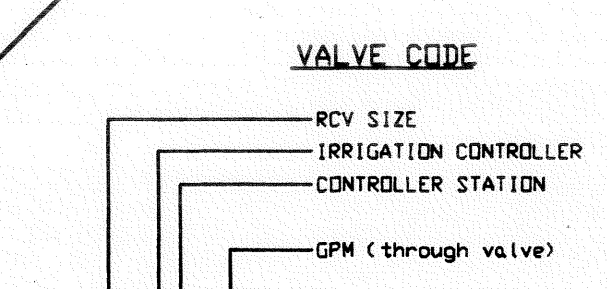
SYM	PLANT NAME	EMITTER/BUBBLER	DETAIL
TREES			
●	ACACIA SMALLII (MULT.) Sage Acacia	2 deep watering trickle bubblers	Sht. L-4, Detail "C"
●	PARKINSONIA "Desert Museum" Thornless Palo Verde	2 deep watering trickle bubblers	Sht. L-4, Detail "C"
PALM TREES			
●	BRACHIA ARMATA Mexican Blue Palm	2 - 0.5 GPH deep watering trickle bubblers	Sht. L-4, Detail "C"
●	PHOENIX DACTYLIFERA Date Palm	2 - 0.5 GPH trickle bubblers	Sht. L-4, Detail "C" and Sht. L-4, Detail "B"

SHRUBS

SYM	PLANT NAME	EMITTER/BUBBLER	DETAIL
○	BOUGAINVILLEA "ON-LA-LA" Coral Bougainvillea	1 - 1 GPH Emitters	Sht. L-4, Detail "B"
○	CAESALPINIA PULCHERRIMA Red Bird of Paradise	1 - 2 GPH Emitters	Sht. L-4, Detail "B"
○	HEPERALOE PARVIFLORA Red Yucca	1 - 2 GPH Emitters	Sht. L-4, Detail "B"
○	LANTANA MONTEVIDENSIS Purple Trailing Lantana	1 - 2 GPH Emitters	Sht. L-4, Detail "B"
○	LANTANA W. "Gold Mount" Trailing Lantana	1 - 2 GPH Emitters	Sht. L-4, Detail "B"
○	LARREA TRIDENTATA Creosote Bush	1 - 1 GPH Emitters	Sht. L-4, Detail "B"
○	XYLOSHA CONGESTUM Shrub Yucca	1 - 2 GPH Emitters	Sht. L-4, Detail "B"
○	YUCCA ELATA Spiky Yucca	1 - 1 GPH Emitters	Sht. L-4, Detail "B"

PVC PIPE SIZING CHART

0 - 5	GPM	1/2"
6 - 10	GPM	3/4"
11 - 15	GPM	1"
16 - 25	GPM	1-1/4"
26 - 40	GPM	1-1/2"
41 - 60	GPM	2"



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Underground Service Alert
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DATE: 10 JULY 2000
FILE: FILE:
PREPARED UNDER THE SUPERVISION OF:
Raymond C. Lopez
RAYMOND C. LOPEZ
LANDSCAPE ARCHITECT, C.L.N. 3474

Love's Country Stores
A NEW TRAVEL STOP
STORE No. 000
COACHELLA, CA

IRRIGATION PLAN

NO.	DATE	BY	REVISIONS